

The First Stakeholders National Events

Report on Capitalization Activities

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Date last release	October 21, 2015.
State of document	FINAL

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The project is co-funded by the European Union,
Instrument for Pre-Accession Assistance

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“This document has been produced with the financial assistance of the IPA Adriatic Cross-Border Cooperation Programme. The contents of this document are the sole responsibility of involved DRINKADRIA project partners and can under no circumstances be regarded as reflecting the position of the IPA Adriatic Cross-Border Cooperation Programme Authorities”.

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1. BACKGROUND

Capitalization and sustainability of project activities is important for water resources management given the significance of safe drinking water supply around the globe. Within the scope of project area, these activities comprise of involvement of identified stakeholders in eight countries in addition to institutions involved in project implementation

Since the safe and stable drinking water supply is strategic goal in each country activities that capitalize experience and skills of relevant stakeholders are added value to capitalization and sustainability. This report summarizes finalized capitalization activities, in particular the First national stakeholders events in eight countries that would significantly contribute to the transboundary project sustainability.



Figure 1 Countries involved in Capitalization Activities within the scope of DRINKADRIA project.

One of the most important capitalization activities that significantly contributes to capitalization and sustainability of DRINAKADRIA project is involvement of relevant stakeholders in addition to those involved in project as a final beneficiaries. Given that, national events for stakeholders are proposed in project application form. It is expected that this approach would provide comprehensive inputs and increase the quality of the DRINAKADRIA main outputs.

Total number of the planned national events is 24, namely 3 per each country that has participating institutions. Due to late start of the project implementation, more than 6 months in comparison to Application Form in some countries the first national events was completed a month ago.

As a result, this report summarizes some of the main outputs and conclusions based on data provided by FBs and LP.

2. INFORMATION COLLECTION FROM STAKEHOLDERS AND OVERVIEW OF NATIONAL DATA

The common methodological framework for capitalization is agreed by all DRINKADRIA project partners. It was important to develop a tool within the frame of Capitalization and Sustainability that would provide a sort of uniform outputs from different stakeholders in eight countries. Thus, questionnaire was developed by significant contribution of all project team members. Based on coordinated activities and communication it is agreed that it might be distributed to relevant stakeholder either in English or in native languages, while summary national reports should be provided in English. Majority of FBs translated questionnaire to their native language.

Given that, the questionnaire for stakeholders is proposed by WP3 lead partner during the project meeting in Rijeka. The final document includes all comments, suggestions and inputs provided by PPs within the proposed period.

This report includes eight Annexes with original and comprehensive national data and information provided by DRINKADRIA project Partners. The short overview is present in subsequent section of this report.

In summary 330 stakeholders from eight country participate in this activity. They had an opportunity to express their opinion on particular topics in two ways: by filling questionnaires or by exchange of ideas, skills and expertise during the presentations. Overall outputs, with respect to number of participants and responding filled questionnaires are exhibited on Figure 2.

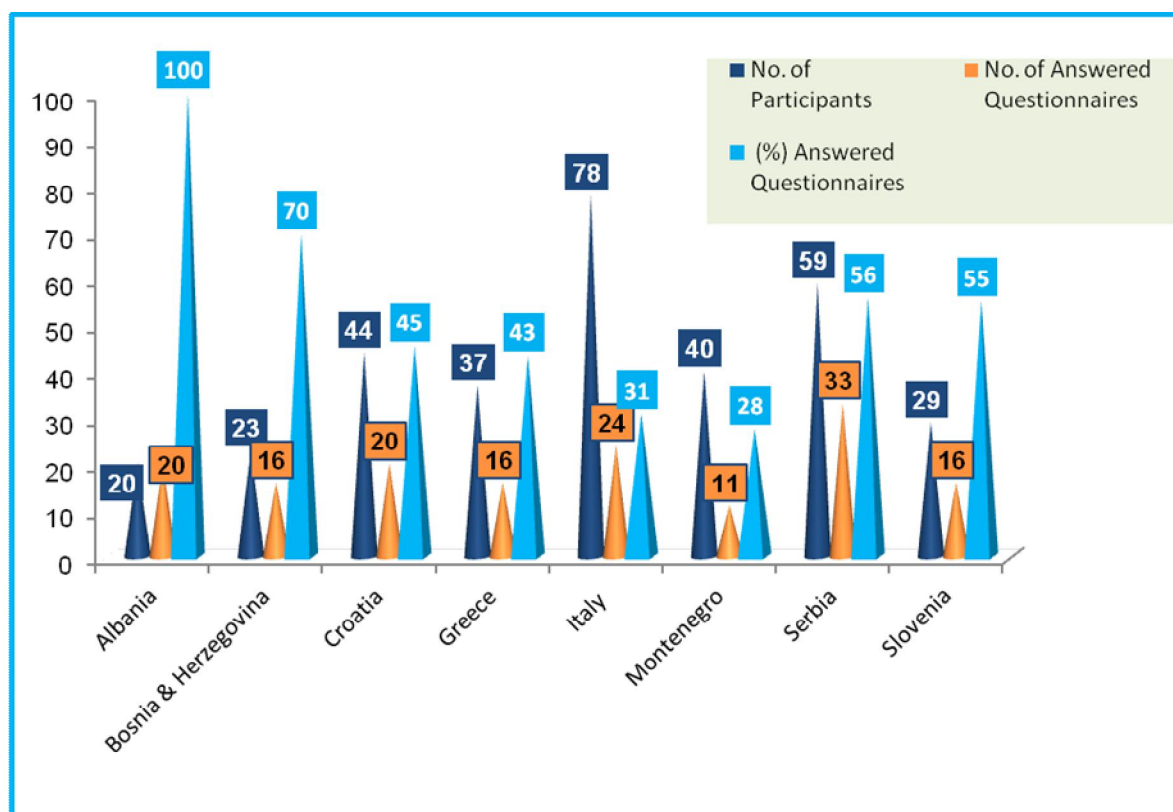


Figure 2: The First Stakeholders National Events in Numbers Summary

As presented in Figure above, only in Albania all participants provide answers to questions listed in questionnaire, followed by Bosnia and Herzegovina with 70 % of stakeholders provide feedbacks. In Serbia and Slovenia over 50 % participants answered to questions, 56 and 55, respectively. Less than 50 % filled questionnaires is reported for Croatia (45%), Greece (43%), Italy (31 %), and Montenegro (28 %).

With respect to professional background, majority of stakeholders that participate on events in eight countries are from Water Supply Utilities. For more details, please refer to country specific data in Annexes of this report.

General conclusion is that workshops successfully implemented priorities listed in agendas and invitation letters. Firstly, all stakeholders that participated are well informed on DRINKADRIA objectives and main goals. Secondly, in some countries specific problems are addressed and discussed, e.g., efficiency of water supply systems, protection zones, water tariffs, water quality, etc.

With respect to answers provided in questionnaires, despite that the main identified issues differ from country to country (8 national summary reports on stakeholders event and questionnaires are [Report on Capitalization Activities THE FIRST STAKEHOLDERS NATIONAL EVENTS](#)

received) they indicate that all relevant issues and key processes for cross – border/ regional water supply and water resources management are included in DRINKADRIA project application form.

Given the specific questions, majority of the stakeholders recognized water losses as a one of the main problems in water supply management, followed by the water tariffs (water pricing mechanisms) that are still social category in some countries. Figure 3 present answers provided by participants in Italian stakeholders' national events.

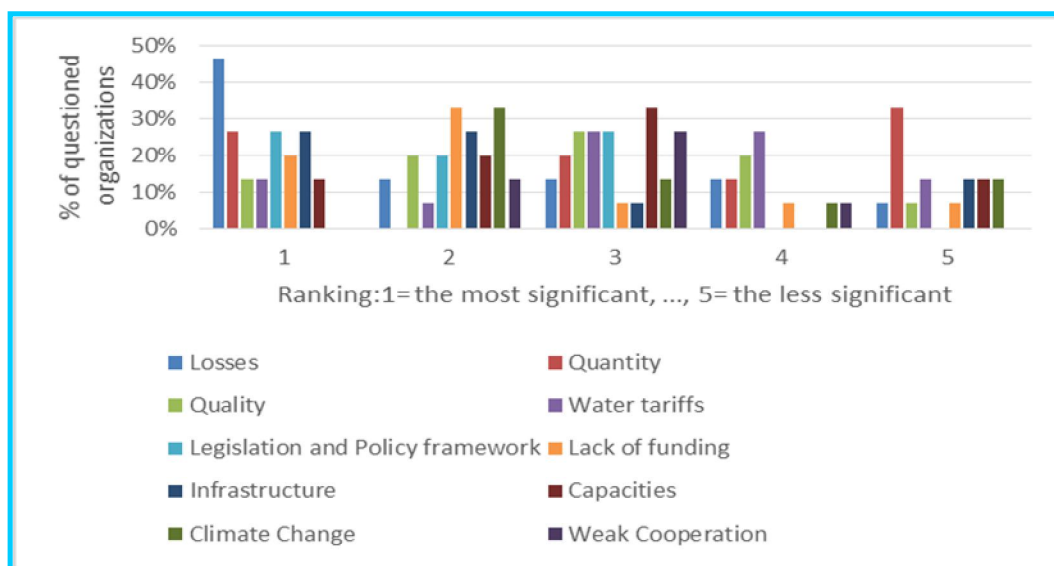


Figure 3: Italian stakeholders answers on main water management issues at the present during the workshop organized in in Castelfidardo (AN) (Source: A.ATO 3 “Marche Centro – Macerata”, Italy FB 2)

Since presenting all outputs in report would be time consuming, only randomly selected outputs from national reports are included. For readers with more interest, all original data are available in annexes.

In comparison to results presented above with respect to water management issues, the answers provided by majority of stakeholders are in agreement with results exhibited schematically.

Moreover, it is quite important for implementation of the project since the key issues are identified as problems are well defined for cross – border/ regional water management and in particular drinking water supply systems.

In addition, water quantity is recognized as an issue due to climate change, losses, etc. Majority of participants at the national workshops recognized an infrastructure ageing and lack of funding as a problem for sustainable management of the cross-border/ regional water supply systems.

Respondents think that policy and legal framework for the cross – border water supply management should be enforced and sometimes the political will at the state level is insufficient.

Quantity has driven significant attention by stakeholders that provide their inputs. Although the state level institutions are indicated as a main player in water supply management, the significant number of answers indicates that stakeholders recognized the important role of their institutions for sustainable water supply management.

With respect to cross cutting issues of relevance for DRINKADRIA project implementation answers provided by Albanian stakeholders are as presented in Figure 4.

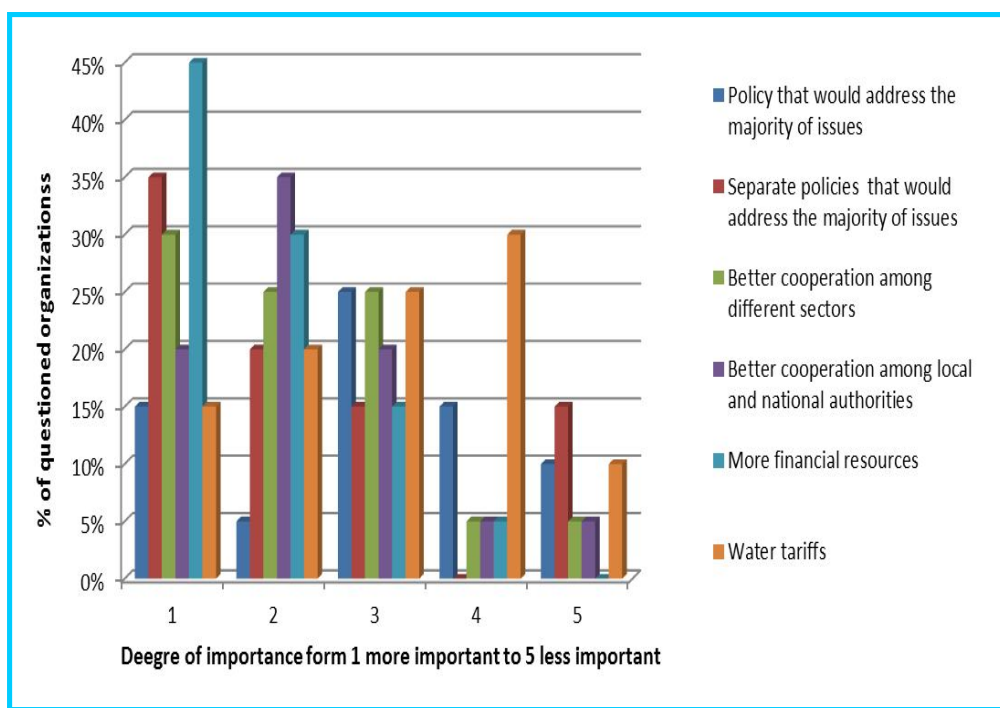


Figure 4 Albanian stakeholders answers on cross – cutting issues solutions
(Source: Water Supply and Sewerage Association of Albania SHUKLAB, FB11)

It is in agreement with great majority of answers provided by stakeholders in other countries, e.g. cross – cutting issues should be addressed by better cooperation among the sectors, more political will and strategic frameworks at the national levels.

In Serbia, the discussion highlighted the need for a gradual, permanent increase of efficiency of waterworks enterprises in a sustainable manner. This will require changes to both the organisation and activities of waterworks companies, as well as establishing appropriate organisational and

regulatory framework in which these companies operate. A special role in this process will be played by consulting firms, institutes and universities, which should provide the knowledge and skills needed to increase the efficiency of waterworks enterprises in a technically correct, sustainable and cost-effective manner.

With respect to the main water supply management constrains in the next 25 - 30 years, participants in Greece ranked them as depicted in Figure 5.

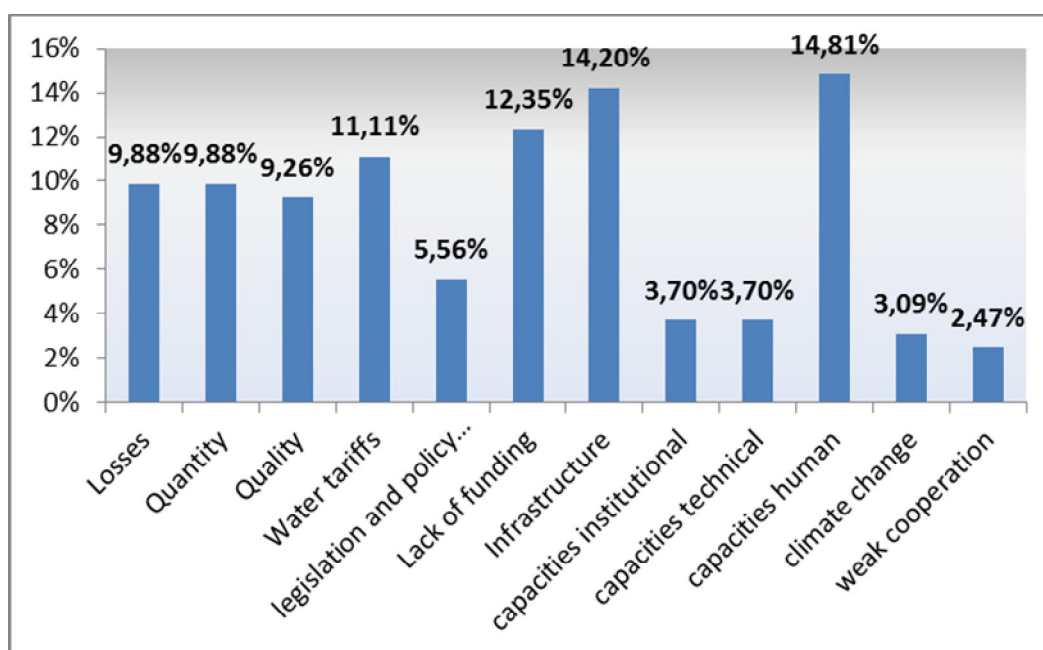


Figure 5 The main water supply management constrains in the near future (next 25 -30 years) ranked by stakeholders in Greece.
(Source: University of Thessaly FB16 with contribution of Region of Ionian Islands FB16)

Based on data provided by stakeholders from Bosnia and Herzegovina, the issues in the field of water quality showed that problems were regarding source protection issues and point source pollution while question regarding water supply distribution constrains show that persistent problems were equally distributed among different answers with emphasis on ageing of the distribution network and poor maintenance of water supply distribution system.

According to Croatian report , respondents think that some cross-border issues could be resolved primarily with better cooperation between local and state governments, as well as with better cooperation between different sectors and with more financial resources. They also consider that

the separation of politics from solving most of the problems is somewhat a better solution than politics solving most of the problems.

75% of respondents consider that the state activity is not the only one that contributes to improvement of water supply system, but also local and regional self-government, utility companies, Croatian waters, universities and scientific-research institutions, and individuals.

About half of the respondents are moderately familiar with the role and activities of bilateral commissions for cross-border management of water supply systems and water resources, and the rest are poorly familiar.

On the other side, 65% of respondents are moderately familiar with the role and activities of local governments for cross-border management of water supply systems, and the rest are poorly familiar.

Majority of stakeholders in Montenegro ranked their knowledge on local authorities role, cross – cutting issues and river basin management plans as moderate.

The water pricing issue was stressed as very important by Slovenian stakeholders. Even the national legislation provides some framework for the water pricing mechanism the water supply economics foreseen for the development in the Drinkadria project seems important for the participants.

3. CONCLUSIONS

Based on the available data, these types of events are recognized as a very useful by stakeholders in different countries. The result presented in this report will be more comprehensive during the next reporting period because of the national workshops in Italy, Albania, Greece and Bosnia and Herzegovina.

However, the evaluated questionnaires indicate that issues and key processes identified in the DRINKADRIA application form are of the great significance for the management of cross- border / regional water supply systems and water resources in general.

It is realistic to expect that with increase in project implementation activities, more stakeholders will be involved in capitalization activities.

In all countries, the participants agreed to maintain the contact and develop a “core” of the national DRINKADRIA stakeholder groups.





4. LIST OF ANNEXES:

National data ALBANIA

National data BOSNIA AND HERZEGOVINA

National data CROATIA

National data GREECE

National data ITALY

national data MONTENEGRO

National data SERBIA

National data SLOVENIA



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ANNEX 1: NATIONAL DATA ALBANIA

REPORTING ON
THE
STAKEHOLDERS
MEETING

11 June, 2014

Saranda
ALBANIA



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REPORTING ON THE STAKEHOLDERS MEETING

11 June, 2014

Saranda, Albania

The meeting organized in the south of Albania, gathered various Water Utility Stakeholders involved in the Water Sector in Albania, together with some selected institutions. The meeting had the following objectives:

- to identify the objectives and the outputs in Adriatic Region for Drinkadria Project;
- to assess the existing needs of cross border cooperation for the water sector in the Adriatic Region, from the perspective of the various stakeholders involved.
- to inform regarding the implementation of the project until the 3rd reporting period

The meeting aimed to:

- Bring together the different stakeholders offering national/regional and provide them with a space for exchanging their policy and strategy for the cross border water supply systems and water resource management;
- Carry out a “mapping use” of national-level for the cross border water supply systems and water resource management; (investigation and stock-taking of what exists already in the sector, in terms of projects, objectives, target group, format, methodology, curriculum, etc.);
- Check the stakeholders’ interest in developing a coherent strategy for the Capitalization Plan in a National level and see the reason of not replying to the Questionnaire already send it to them;
- Provide the stakeholders with some expert input on qualitative, structural and other aspects for the WP4 and WP5;
- Negotiate the next steps for co-operation (concrete tasks, timeline), if relevant;

The initial objectives of the meeting were fully met. Although it would have been difficult for the organizers/FB11 to invite more participants (mainly for financial reasons), some participants regretted that the group was not more diverse from a stakeholder’s perspective. Anyway more than 20 participants were present. The meeting laid out the principle of partnerships and discusses their advantages and benefits of the Drinkadria project, identifying gaps and remedies, mutual interests and priorities, discussing the concept of partnership and noting the potential for links to other international partners.



REPORTING ON THE STAKEHOLDERS MEETING – Sarande 11 July 2014

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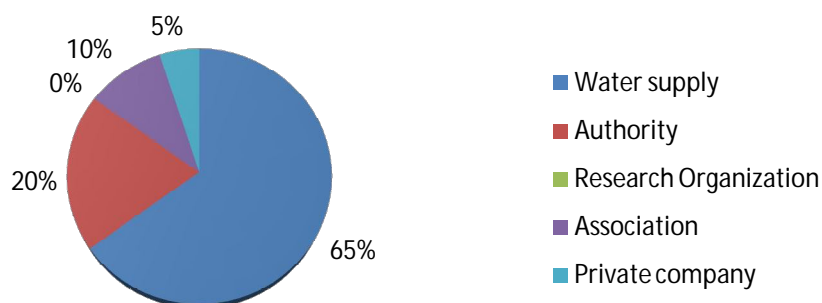
SUMMARY REPORT OF QUESTIONNAIRES FOR WORKING PACKAGE NR.3

In order to provide a comprehensive and representative opinion regarding the major issues on cross border /regional water resources management and water supply systems, SHUKALB surveyed different categories of water Stakeholders:

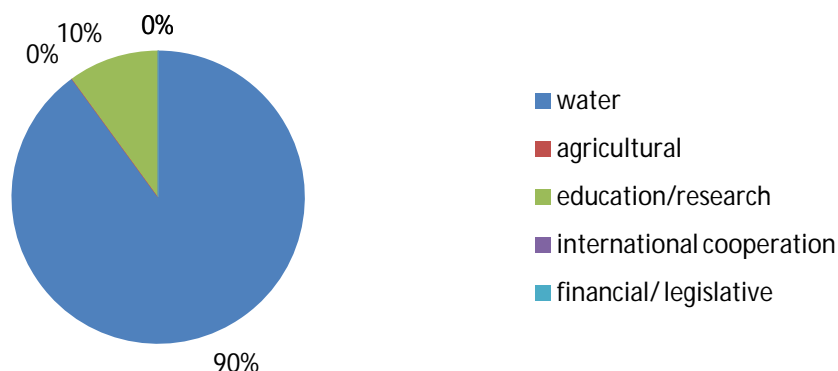
- National decision making institutions,
- Local decision making institutions,
- Water Supply and Sewerage Utilities
- Private companies
- Associations

From the total of 45 stakeholders invited to participate in the survey, only 20 of them filled the questionnaire (45 %).

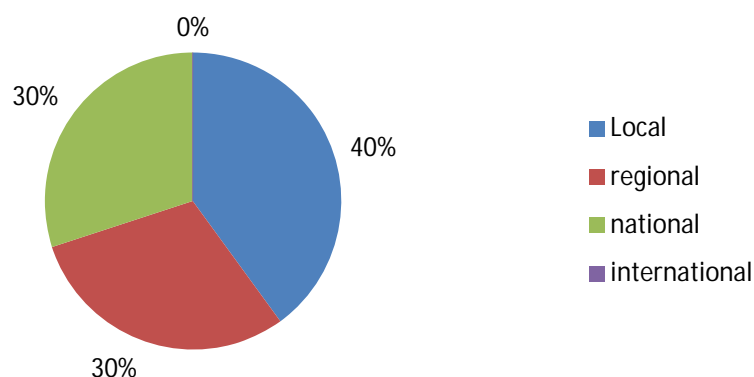
Question 1: 65% of questioned organizations has water supply service as they main scope of the work, for 20% of them their role was as authority in the water sector and only 15% were associations and private companies.



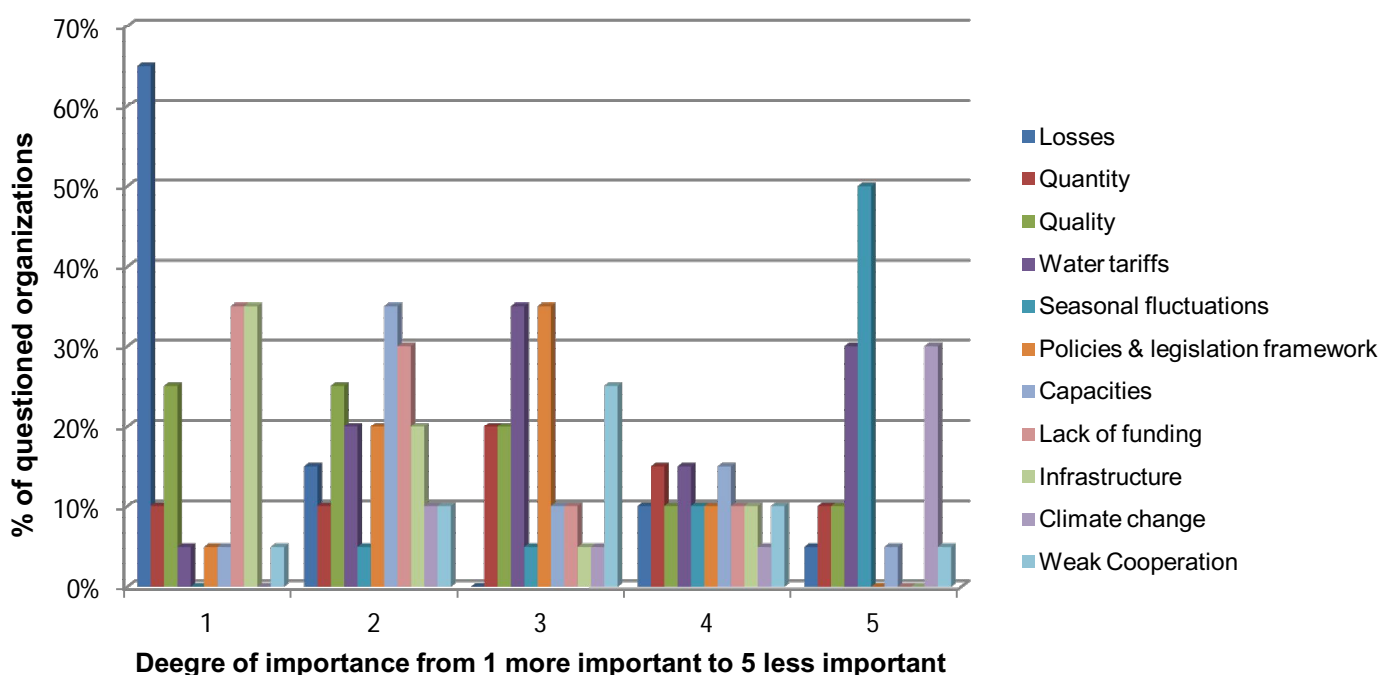
Question 2: For 90% of the questioned institutions, water is their main activity while 10% of them are education or research institutions.



Question 3: Most of questioned organizations, at about 40% operate in local level.



Question 4: As shown in the following graph the questioned organization has ranged as some of the most important issues in the water sector: water losses (65%), infrastructure (35%), lack of funding (35%) and quality (25%)

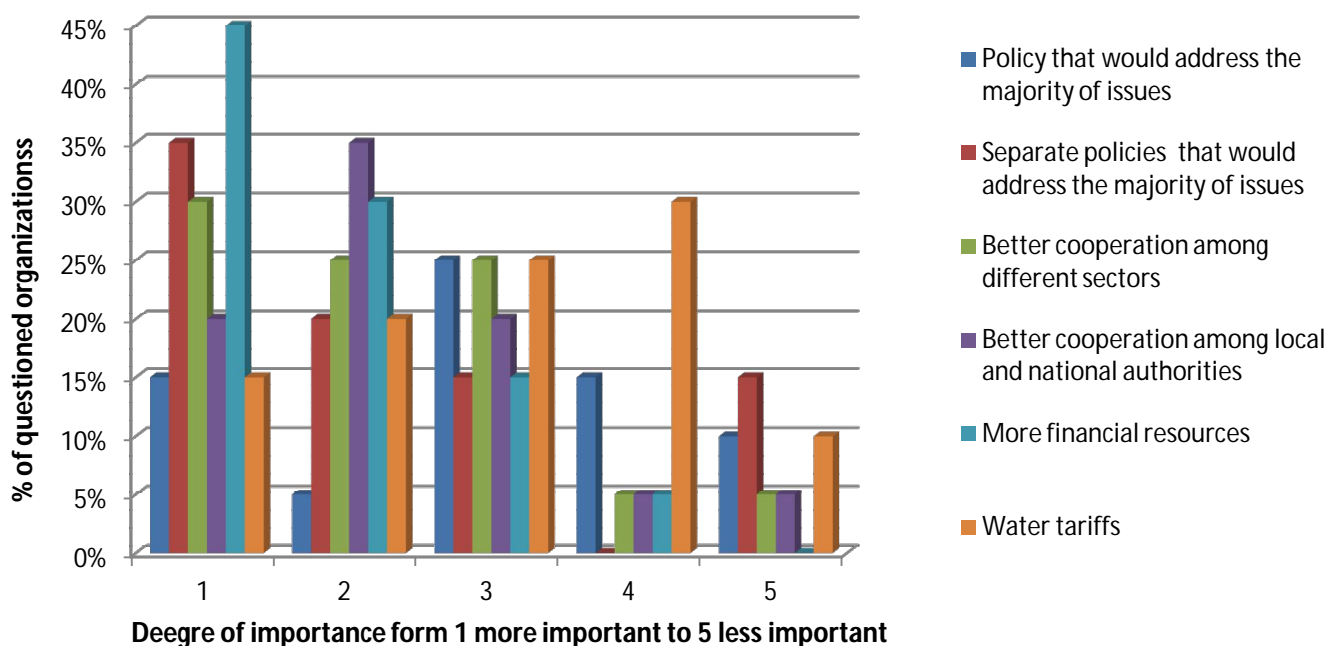


Question 5: Summarizing the responses of all the questioned organizations, the most important steps and activities that would improve the water supply are:

- Establishment of a specific law on water supply and sewerage service,
- Approval and implementation of the Master Plan in WSS Sector,
- Continue the regionalization process of WSS service as planed in the sector Strategy

- Increasing the capacity building of the Water Supply and Sewerage staff.
- Reduction of technical and administrative water losses
- Increase of the metering level in water production and consumption
- Increase the collection efficiency
- Better management for the reduction of services cost from the water companies
- Restoration or replacement of damage and aged water supply system
- Increase of Water Supply coverage
- Building cost effective water supply works
- Pressure monitoring
- Improvement of WSS utilities efficiency by computerization of all technical and administrative chains
- Increasing consumers awareness for wastage of water
- New investment in water treatment and disinfection excluding the use of chlorine
- Improvement of infrastructure through increase of investments

Question 6: As shown in the following graph the questioned organization has ranged as the best ways for solving some cross-cutting issues: more financial resources (45%), establishment of separate policies that would address the majority of issues (35%) and better cooperation among different sectors (32%)



Question 7: From the analysis of all the responses, the 3 most significant steps and activities that would improve the water supply are:

1. Improvement of the water supply network by replacing the aged pipelines and repairing all the breakdowns
2. Increase of the metering level, by installing new water meter in every water connection.
3. Reduction of administrative and technical water losses.

Question 8: Regarding the actions that questioned organizations are taking to improve water supply, their answers vary according to the role and main scope of work. Authority's current work is focusing on:

- Helping WS companies achieving financial sustainability through setting achievable performance
- Regulate services through tariff policies
- Enforce legal framework in cooperation with other line institutions
- Increase financial support for improving the infrastructure
- Leading the reform on the legislation

Water supply and sewerage utilities are taking actions on:

- Regular maintenance of the water supply distribution network
- Increase of the water supply quantity
- Increase of the water tariff collection
- Equipment with water meters
- Improvement of the existing water supply system
- Identification and elimination of illegal connection
- Providing a secure infrastructure for service delivery
- Reduction of water losses
- Providing sewage collection, treatment and disposal services to all water supply customers of the Company

While Associations and private companies are working with:

- Capacity building events and trainings for WSS personnel
- Equipment of WSS utilities with software for administration and management of utility
- Dissemination of information regarding water sector
- Implementation of projects in water sector.
- Awareness raising programs.

Question 9: Even that 47% of the surveyed organizations have confirmed that only the state activities contribute to improved water supply, 53% of them have identified as important factor that can contribute in this sector improvement also:

- Donors
- Private companies
- Associations
- Water Supply and Sewerage Utilities

Question 10: 47% of the questions organizations confirmed that were familiar with some legislative frameworks that are significant for cross-border/ regional water supply systems, but only 4 of them named:

- Agreement for environmental protection of Ohrid Lake
- Agreement Between Albania and Greece on trans- boundary freshwater issues
- Barcelona Convention,
- Water Framework Directive,
- Environmental Impact Assessment for Trans-boundary Waters,
- Water Convention ,
- UNECE convention on Trans-boundary Water

Question 11: Some of the most important topics regarding cross-border/regional water supply system that the questioned organizations would like to be familiar with are:

- Licensing & Tariff regime
- Performance monitoring
- Consumer protection
- Regional management of the drinking water supply
- Regional management wastewater collection and treatment
- Regional policies and managerial procedures
- Information for detection and reduction of water losses
- Information for better management of the cross-border water basins
- How are perceived from technical point of view the regional water supply and sewerage utilities.
- Subsidies policies for regionalized water supply and sewerage utilities
- Better collaboration in the regional water supply systems
- Integrated water resource management
- Drinking water chlorination
- Regional cooperation on water quality improvement
- Methodologies of using water from neighboring countries
- Organization of the service provider and decision making within the provider
- Policies and Management
- Subsidies policies for regionalized water supply and sewerage utilities.
- How to be involved and apply for projects that cover all the service area

QUESTIONNAIRE ON CROSS BORDER /REGIONAL WATER RESOURCES MANAGEMENT AND WATER SUPPLY SYSTEMS

Name: Surname: Institution/ Organization: <i>(If you wish to remain anonymous, please do not fill)</i> Signature:	Sokol
	OLLI
	Albanian Geological Survey

Your Institution/ Organization mission -main scope of the work:

☐ Water supply ☒ Authority ☒ Research Organization ☐ Association
☐ Other (please specify)

In which sector would you locate your activities?

☒ water ☐ agricultural ☒ education/research
☐ international cooperation ☐ financial/ legislative ☐ other, namely :

What spatial scale reflects the best your activities and tasks?

☐ Local ☐ regional ☒ national
☒ international ☐ other, namely :

What are the main water supply issues/ problems?
(Please rank them: 1 the most significant , 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

❶ Losses ❷ Quantity ❶ Quality ❸ Water tariffs
 ❺ Seasonal fluctuations ❹ Policies & legislation framework ❺ Capacities
 ❶ Lack of funding ❷ Infrastructure ❷ Climate change ❸ Weak Cooperation
☐ Other, namely :

What are the most important steps and activities that would improve water supply?

Management of natural resources as a criterion and the pumping stations from the relevant authorities.

Do you think that some cross-cutting issues can be solved by:

(Please rank them: 1 the most significant , 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

- ☒ 3 Policy that would address the majority of issues
- ☒ 2 Separate policies that would address the majority of issues
- ☒ 1 Better cooperation among different sectors
- ☒ 1 Better cooperation among local and national authorities
- ☒ 1 More financial resources
- ☒ 2 Water tariffs
- ☐ Other, namely :

Please list the 3 most significant actors/ actions for improved water supply:

1. Improvement of the distribution network.
2. The control and steps to be taken on indiscriminate use of water resources.
3. Management from the relevant authorities.

What are the actions that your institution/ organization might take to improve water supply and contribute to its sustainability?

The institution where I work, dealing directly with study-research activity of water resources, reserves and calculating the legitimate recommendation on the use of groundwater and surface water.

Do you think that only state activities contribute to improved water supply:

☒ YES ☐ No

If the answer is NO please list other institutional levels of significance:

Are there legislative frameworks (treaties, agreements, MoA, etc.) that are significant for cross-border/ regional water supply systems you are familiar with in your country:

☒ YES ☐ No

If the answer is yes, please provide the title

What are the most important topics that you would like to become more familiar regarding to cross- border /regional water supply systems?

Methodologies of using water from neighboring countries.

PYETESOR MBI MENAXHIMIN E BURIMEVE UJORE NDERKUFITAR DHE MANAXHIMIN E SITEMIT TE FURNIZIMIT ME UJE TE PIJSHEM

<p>Emer: Mbiemer: Institucioni/ Organizata: <i>(Nqs deshironi te mbeten anonim mos e plotesoni kete rresht)</i> Firma:</p>	<p style="text-align: center;"><i>FATMIR</i></p> <p style="text-align: center;"><i>SHALLI</i></p> <p style="text-align: center;"><i>SH.A. UJESKE, KOMBETARE BERAT - KUSOVJE</i></p> <p style="text-align: center;"><i>Shall</i></p>
<p>Misioni ose qellimi i Istitucioni/ Organizates ku ju punoni:</p> <p> <input checked="" type="checkbox"/> Furnizim me Uje <input type="checkbox"/> Autoritet <input type="checkbox"/> Institut Kerkimor <input checked="" type="checkbox"/> Shoqate <input type="checkbox"/> tjeter (specifikoje) </p>	
<p>Ne cilin sector ushtrohen aktivitetet tua?</p> <p> <input checked="" type="checkbox"/> uje <input type="checkbox"/> agrikulture <input type="checkbox"/> edukim/pune kerkimore <input type="checkbox"/> bashkeveprim nderkombetar <input type="checkbox"/> financiar/ legjislativ <input type="checkbox"/> tjeter (specifikoje), </p>	
<p>Ne cfare niveli hapsinore pasqyrohen me mire aktivitetet dhe detyrat tua? tua?</p> <p> <input checked="" type="checkbox"/> Lokale <input checked="" type="checkbox"/> Rajonale <input type="checkbox"/> Kombetare <input type="checkbox"/> Nderkombetare <input type="checkbox"/> tjeter (specifikoje),: </p>	
<p>Cilat jane ceshtjet dhe problematikat kryesore ne lidhje me furnizimin me uje? (Renditini ne shkallen 1-5 ku: 1 me e rendesishmja , 5 me pak e rendesishmja, nqs eshte e mundur caktoni te njejten shkalle per dy problematikat kryesore.)</p> <p> <input checked="" type="checkbox"/> Humbjet <input type="checkbox"/> Sasia <input checked="" type="checkbox"/> Cilesia <input checked="" type="checkbox"/> Tarifat e ujit <input type="checkbox"/> Luhatjet sezonale <input checked="" type="checkbox"/> Politikat dhe legjislacioni <input checked="" type="checkbox"/> Kapacitete njerezore <input checked="" type="checkbox"/> Mungesa e fondeve <input type="checkbox"/> Infrastruktura <input type="checkbox"/> Ndryshimet klimaterike <input type="checkbox"/> Mungesa e bashkepunimit <input type="checkbox"/> tjeter (specifikoje): </p>	
<p>Cilat jane hapat dhe aktivitetet me te rendesishme qe do te permiresonin furnizimin me uje?</p> <p style="font-family: cursive;"> 1. Rikonstruksion i sistemit shpirtor qe eshte tejet i mposhtuar, shpernuar me vendosjen e matrave te rejt. 2. Rritja e sasis se ujit te furnizuar dhe ujit qarkullues per te enkuruar koston e flet. </p>	

A mendoni se disa ceshtje ndersektoriale mund te zgjidhen me:

(Renditini ne shkallen 1-5 ku: 1 me c rendesishmja , 5 me pak e rendesishmja, nqs eshte e mundur caktoni te njejten shkalles per dy problematikat kryesore.)

- ☒ Politika qe do te trajtonin pjesen me te madhe te problematikave,
- ☒ Politika te vecanta qe do te trajtonin pjesen me te madhe te problematikave,
- ☒ Bashkepunim me i mire ndermjet sektoreve te ndryshem.
- ☒ Bashkepunim me i mire ndermjet autoriteteve lokale dhe kombetare
- ☒ Me shume burime financiare
- ☒ Tarifat e ujit
- ☒ tjeter (specifikoje),

Permendi 3 aktoret/veprimct me te rendesishme per permiresimin e furnizimit me uje:

- 1- Zvogelimi i humbjeve ne rjet
- 2- Eliminimin dhe largimin e lidhjeve te paligjishme.
- 3- Matja e sakte e sasise se ujit te konsumuar.

Cilat jane veprimet qe insitucioni/organizata juaj mund te ndermarr per te permiresuar furnizimin me uje dhe te kontribuoj ne qendrueshmerin e tij?

1. Zvogelimin e humbjeve ne rjet.
2. Eliminimin dhe largimin e lidhjeve te paligjishme.
3. Matja e sakte e sasise se ujit te konsumuar.

A mendini se vetem aktivitetet shleterore kontribuojne ne permiresimin e furnizimit me uje:

☒ Po ☐ Jo

Nqs pergjigja juaj eshte jo, ju lutem listoni nivele te tjera institucionale te rendesishme:

A ka korniza (marveshje, MoA etj) qe jane te rendesishme per sistemet e furnizimit me uje rajonal ose nderkufitar me te cilat ju jeni te njohur ne vendin tuaj?

☐ Po ☒ Jo

Nqs pergjigja juaj eshte po, ju lutem siguroni titujt:

Cilat jane temat me te rendesishme qe ju doni me shume informacion ne lidhje me sistemit e furnizimit me uje rajonal ose nderkufitar?

- Klorinimi i ujit
- Reduktimi i humbjeve ne rjet

QUESTIONNAIRE ON CROSS BORDER /REGIONAL WATER RESOURCES MANAGEMENT AND WATER SUPPLY SYSTEMS

Name: Surname: Institution/ Organization: (If you wish to remain anonymous, please do not fill) Signature:	
	DURRES WATER SUPPLY AND SEWERAGE UTILITY

Your Institution/ Organization mission -main scope of the work:

☒ Water supply ☐ Authority ☐ Research Organization ☐ Association
☐ Other (please specify)

In which sector would you locate your activities?

☒ water ☐ agricultural ☐ education/research
☐ international cooperation ☐ financial/ legislative ☐ other, namely :

What spatial scale reflects the best your activities and tasks?

☐ Local ☒ regional ☐ national
☐ international ☐ other, namely :

What are the main water supply issues/ problems?
(Please rank them: 1 the most significant , 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

1. Losses 3. Quantity ☐ Quality 4. Water tariffs
 5. Seasonal fluctuations ☐ Policies & legislation framework ☐ Capacities
 2. Lack of funding 1.1 Infrastructure ☐ Climate change ☐ Weak Cooperation
☐ Other, namely :

What are the most important steps and activities that would improve water supply?

- Improve financial performance
- Reduction of commercial losses
- Managing the water amount ,to rural areas

Do you think that some cross-cutting issues can be solved by:

(Please rank them: 1 the most significant , 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

☐ Policy that would address the majority of issues

1. Separate policies that would address the majority of issues

3. Better cooperation among different sectors

5. Better cooperation among local and national authorities

2. More financial resources

4. Water tariffs

☐ Other, namely :

Please list the 3 most significant actors/ actions for improved water supply:

-Financial resources,investements

-Technical Department,losses

-Commercial Department,customer

What are the actions that your institution/ organization might take to improve water supply and contribute to its sustainability?

- To provide sustainable, secure, sufficient and proper quality water supply to all existing and potential customers.
- To provide sewage collection, treatment and disposal services to all water supply customers of the Company
- To operate the Company based on a customer oriented, financially sound, and efficient manner.
- To make timely investments for improved water supply system efficiency, so that the service area of the Company is fully prepared to respond to the increased water demand needs of the tourists and residents during the summer period.

Do you think that only state activities contribute to improved water supply:

☐ YES ☒ No

If the answer is NO please list other institutional levels of significance:

Are there legislative frameworks (treaties, agreements, MoA, etc.) that are significant for cross-border/ regional water supply systems you are familiar with in your country:

☒ YES ☐ No

If the answer is yes, please provide the title

What are the most important topics that you would like to become more familiar regarding to cross- border /regional water supply systems?

-Water Meter

-Equipment for maintenance of sewerage systems

- Instruments for detection of pipeline leaks

-Etc,

PYETESOR MBI MENAXHIMIN E BURIMEVE UJORE NDERKUFITAR DHE MANAXHIMIN E SITEMIT TE FURNIZIMIT ME UJE TE PIJSHEM

Emer: Mbiemer: Institucioni/ Organizata: <i>(Nqs deshironi te mbeten anonim mos e plotesoni kete rresht)</i> Firma:	ILIR ROPI SH.A UJESJELLES FSHAT ELBASAN
Misioni ose qellimi i Istitucioni/ Organizates ku ju punoni: <input checked="" type="checkbox"/> Furnizim me Uje <input type="checkbox"/> Autoritet <input type="checkbox"/> Institut Kerkimor <input type="checkbox"/> Shoqate <input type="checkbox"/> tjeter (specifikoje)	
Ne cilin sector ushtrohen aktivitetet tuaja? <input checked="" type="checkbox"/> Uje <input type="checkbox"/> agrikulture <input type="checkbox"/> edukim/pune kerkimore <input type="checkbox"/> bashkeveprim nderkombetar <input type="checkbox"/> financiar/ legjislativ <input type="checkbox"/> tjeter (specifikoje),	
Ne cfare niveli hapsinore pasqyrohen me mire aktivitetet dhe detyrat tuaja tuaja? <input checked="" type="checkbox"/> Lokale <input type="checkbox"/> Rajonale <input type="checkbox"/> Kombetare <input type="checkbox"/> Nderkombetare <input type="checkbox"/> tjeter (specifikoje),:	
Cilat jane ceshtjet dhe problematikat kryesore ne lidhje me furnizimin me uje? (Renditini ne shkallen 1-5 ku: 1 me e rendesishmja , 5 me pak e rendesishmja, nqs eshte e mundur caktoni te njejten shkalle per dy problematikat kryesore.) 1 Humbjet 3 Sasia 1 Cilesia 1 Tarifat e ujit <input type="checkbox"/> Luhatjet sezonale 1 Politikat dhe legjislacioni 3 Kapacitete njerezore 1 Mungesa e fondeve 1 Infrastruktura <input type="checkbox"/> Ndryshimet klimaterike 4 Mungesa e bashkepunimit <input type="checkbox"/> tjeter (specifikoje):	
Cilat jane hapat dhe aktivitetet me te rendesishme qe do te permiresonin furnizimin me uje? 1 -Permiresimi i rrjeteve shperndarese. 2 -Rinovimi i pajisjeve dhe makinerive 3 -Matja e ujit ne prodhim dhe shitje	
A mendoni se disa ceshtje ndersektoriale mund te zgjidhen me: (Renditini ne shkallen 1-5 ku: 1 me e rendesishmja , 5 me pak e rendesishmja, nqs eshte e mundur caktoni te njejten shkalle per dy problematikat kryesore.)	

- 1 Politika qe do te trajtonin pjesen me te madhe te problematikave,
- 3 Politika te vecanta qe do te trajtonin pjesen me te madhe te problematikave,
- 3 Bashkepunim me i mire ndermjet sektoreve te ndryshem.
- 1 Bashkepunim me i mire ndermjet autoriteteve lokale dhe kombetare
- 1 Me shume burime financiare
- 1 Tarifat e ujit
- ☐ tjeter (specifikojte),

Permendi 3 aktoret/veprimet me te rendesishme per permiresimin e furnizimit me uje:

- 1-Permiresimi i rrjeteve shperndarese.
- 2-Rinovimi i pajisjeve dhe makinerive
- 3-Matja e ujit ne prodhim dhe shitje

Cilat jane veprimet qe insitucioni/organizata juaj mund te ndermarr per te permiresuar furnizimin me uje dhe te kontribuoj ne qendrueshmerin e tij?

- 1-Dhenia e ujit me cilesi.
- 2-Riparimin brenda 24 oreve i difekteve ne tubacionet kryesore.

A mendini se vetem aktivitetet shteterore kontribuojne ne permiresimin e furnizimit me uje:

✓ ☐ Po ☐ Jo

Nqs pergjigja juaj eshte jo, ju lutem listoni nivele te tjera institucionale te rendesishme:

A ka korniza (marveshje, MoA etj) qe jane te rendesishme per sistemet e furnizimit me uje rajonal ose nderkufitar me te cilat ju jeni te njohur ne vendin tuaj?

☐ Po

✓ ☐ Jo

Nqs pergjigja juaj eshte po, ju lutem siguroni titujt:

Cilat jane temat me te rendesishme qe ju doni me shume informacion ne lidhje me sistemit e furnizimit me uje rajonal ose nderkufitar?

[Print](#) | [Close Window](#)

Subject: Projekti DRINKADRIA: Plotesim pyetesori
From: SHUKALB Informacion <info@shukalb.al>
Date: Thu, May 29, 2014 1:10 pm
To: "SHUKALB Informacion" <info@shukalb.al>
Attach: Pyetesori_Shqip.doc
Pyetesori_Anglisht.doc

Te nderuar anetare,

Ne kuader te nje projekti te saj, Shoqate e Ujesjelles Kanalizimeve e Shqiperise SHUKALB po mbledh informacion qe gjendet ne formularin bashkengjitur me kete email. Ju lutemi potesojeni formularin me shkrim dore dhe dergojeni te skanuar sa me shpejt te mundeni brenda javes ne kete adrese emaili.

Mund te plotesoni versionin ne Shqip ose Anglisht sipas deshires.

Faleminderit per bashkepunimin,

Anisa Aliaj,

Koordinatorë,


Projekti DRINKADRIA

Shoqata Ujësjetllës Kanalizime e Shqipërisë

Rruga "Pjeter Bogdani", Nd. 17 Ap. 25
Njësia Bashkiake Nr. 5, Kodi Postar 1019
Tirane, Shqipëri
Tel: (+355/4) 2245 101
Fax: (+355/4) 2245 101

Mob : (+355) 69 60 12782
E-mail: info@shukalb.al
Web: www.shukalb.org

Informacioni në këtë e-mail është repteishtë konfidencial dhe i destinuar vetem per marrësin. Permbajtja e e-mailit është i mbuluar nga privilegji ligjor, profesional ose privilegje të tjera. Nëse ju nuk jeni marresi i duhur, ju nuk duhet ta shpërndani, të publikoni, kopjoni, printoni ose të ndërmerrni ndonjë veprim në lidhje me kete korrespondence. Nëse ju keni marrë këtë e-mail gabimisht, ju lutem na njoftoni dhe fshini të dhënat e marra sa më shpejt që të jetë e mundur.

 Ju lutem konsideroni ambientin perpara se te printoni kete e-mail

PYETESOR MBI MENAXHIMIN E BURIMEVE UJORE NDERKUFITAR DHE MANAXHIMIN E SITEMIT TE FURNIZIMIT ME UJE TE PIJSHEM

<p>Emer:</p> <p>Mbiemer:</p> <p>Institucioni/ Organizata:</p> <p><i>(Nqs deshironi te mbeten anonim mos e plotesoni kete rresht)</i></p> <p>Firma:</p>	<p><i>Alia</i></p> <p><i>Crivelli</i></p> <p><i>Elber Xepic</i></p>
<p>Misioni ose qellimi i Institucioni/ Organizates ku ju punoni:</p> <p> <input checked="" type="checkbox"/> Furnizim me Uje <input type="checkbox"/> Autoritet <input type="checkbox"/> Institut Kerkimor <input type="checkbox"/> Shoqate <input type="checkbox"/> tjeter (specifikoje) </p>	
<p>Ne cilin sektor ushtrohen aktivitetet tua?</p> <p> <input checked="" type="checkbox"/> uje <input type="checkbox"/> agrikulture <input type="checkbox"/> edukim/pune kerkimore <input type="checkbox"/> bashkeveprim nderkombetar <input type="checkbox"/> financiar/ legjislativ <input type="checkbox"/> tjeter (specifikoje), </p>	
<p>Ne cfare niveli hapsinore pasqyrohen me mire aktivitetet dhe detyrat tua?</p> <p> <input checked="" type="checkbox"/> Lokale <input type="checkbox"/> Rajonale <input type="checkbox"/> Kombetare <input type="checkbox"/> Nderkombetare <input type="checkbox"/> tjeter (specifikoje),: </p>	
<p>Cilat jane ceshtjet dhe problematikat kryesore ne lidhje me furnizimin me uje? (Renditini ne shkallen 1-5 ku: 1 me e rendesishmja , 5 me pak e rendesishmja, nqs eshte e mundur caktoni te njejten shkalle per dy problematikat kryesore.)</p> <p> <input checked="" type="checkbox"/> Humbjet <input type="checkbox"/> Sasia <input type="checkbox"/> Cilesia <input checked="" type="checkbox"/> Tarifat e ujit <input checked="" type="checkbox"/> Luhatjet sezonale <input type="checkbox"/> Politikat dhe legjislacioni <input type="checkbox"/> Kapacitete njerezore <input checked="" type="checkbox"/> Mungesa e fondeve <input checked="" type="checkbox"/> Infrastruktura <input type="checkbox"/> Ndryshimet klimaterike <input type="checkbox"/> Mungesa e bashkepunimit <input type="checkbox"/> tjeter (specifikoje): </p>	
<p>Cilat jane hapat dhe aktivitetet me te rendesishme qe do te permiresonin furnizimin me uje?</p> <p><i>Ristrukturimi i stacioneve te prodhimit te ujit, rekonstrukcion i sajtit superaudore, instalimi i angjezave individuale te konsumatorit.</i></p>	

A mendoni se disa ceshtje ndersektorale mund te zgjidhen me:

(Renditini ne shkallen 1-5 ku: 1 me e rendesishmja , 5 me pak e rendesishmja, nqs eshte e mundur caktoni te njejten shkalle per dy problematikat kryesore.)

- ☐ Politika qe do te trajtonin pjesen me te madhe te problematikave,
- ☒ Politika te vecanta qe do te trajtonin pjesen me te madhe te problematikave,
- ☒ Bashkepunim me i mire ndermjet sektoreve te ndryshem.
- ☒ Bashkepunim me i mire ndermjet autoriteteve lokale dhe kombetare
- ☒ Me shume burime financiare
- ☒ Tarifat e ujit
- ☐ tjeter (specifikojte),

Permendi 3 aktoret/veprimet me te rendesishme per permiresimin e furnizimit me uje:

- Instalimi i matësve individualë
- Rikonstruksion i rrjetit supërnacional
- Sensibilizimi i konsumatorëve për përdorim të ujit të pijshëm.

Cilat jane veprimet qe insitucioni/organizata juaj mund te ndermarr per te permiresuar furnizimin me uje dhe te kontribuoj ne qendrueshmerin e tij?

Përmirësimi i rrjetit ekzistues, eleminimi i lloqjeve të jashtë ligjëshme, përcjellja me matës.

A mendini se vetem aktivitetet shteterore kontribuojne ne permiresimin e furnizimit me uje:

☒ Po ☐ Jo

Nqs pergjigja juaj eshte jo, ju lutem listoni nivele te tjera institucionale te rendesishme:

A ka korniza (marveshje, MoA etj) qe jane te rendesishme per sistemet e furnizimit me uje rajonal ose nderkufitar me te cilat ju jeni te njohur ne vendin tuaj?


☐ Po ☒ Jo

Nqs pergjigja juaj eshte po, ju lutem siguroni titujt:

Cilat jane temat me te rendesishme qe ju doni me shume informacion ne lidhje me sistemit e furnizimit me uje rajonal ose nderkufitar?

- Sistemi i prodhimit
- Efienca e energji'së

QUESTIONNAIRE ON CROSS BORDER /REGIONAL WATER RESOURCES MANAGEMENT AND WATER SUPPLY SYSTEMS

Name:	Meivis
Surname:	Struga
Institution/ Organization: (If you wish to remain anonymous, please do not fill)	Environmental and Territorial Management Institute
Signature:	

Your Institution/ Organization mission -main scope of the work:

☐ Water supply ☐ Authority ☐ Research Organization ☒ Association
☐ Other (please specify)

In which sector would you locate your activities?

☒ water ☐ agricultural ☒ education/research
☒ international cooperation ☐ financial/ legislative ☒ other, namely : Territory Planning, Energy Efficiency

What spatial scale reflects the best your activities and tasks?

☐ Local ☐ regional ☒ national
☐ international ☐ other, namely :

What are the main water supply issues/ problems?
(Please rank them: 1 the most significant , 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

☒ Losses ☒ Quantity ☒ Quality ☒ Water tariffs
☒ Seasonal fluctuations ☒ Policies & legislation framework ☒ Capacities
☒ Lack of funding ☒ Infrastructure ☒ Climate change ☒ Weak Cooperation
☐ Other, namely :

What are the most important steps and activities that would improve water supply?

- Water Management / collection of tariffs → losses reduction
 - Maintenance - technical assistance
 - Financial assistance.
 - Monitoring → Quality

Do you think that some cross-cutting issues can be solved by:

(Please rank them: 1 the most significant , 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

- ☒ 1 Policy that would address the majority of issues
- ☒ 2 Separate policies that would address the majority of issues
- ☒ 3 Better cooperation among different sectors
- ☒ 4 Better cooperation among local and national authorities
- ☒ 5 More financial resources
- ☒ 6 Water tariffs
- ☐ Other, namely :

Please list the 3 most significant actors/ actions for improved water supply:

- Proper Infrastructure - ^{Water facilities} / - Financial resources
- Water Management / tariffs - Water treatment / - Cooperation

What are the actions that your institution/ organization might take to improve water supply and contribute to its sustainability?

- Awareness Raising Programs
- Capacity Building Activities for the employees

Do you think that only state activities contribute to improved water supply:

☐ YES ☒ No

If the answer is NO please list other institutional levels of significance:

Local authorities / Utilities

Are there legislative frameworks (treaties, agreements, MoA, etc.) that are significant for cross-border/ regional water supply systems you are familiar with in your country:

☒ YES ☐ No

If the answer is yes, please provide the title

- Water Framework Directive (WFD)
- UNECE Convention on Transboundary Waters
- Barcelona Convention
- Environmental Impact Assessment for Transboundary W. (ESPRI/C)
- Water Convention

What are the most important topics that you would like to become more familiar regarding to cross- border /regional water supply systems?

- Transboundary agreements for shared water courses
- River Basin Management (transboundary effect)

QUESTIONNAIRE ON CROSS BORDER /REGIONAL WATER RESOURCES MANAGEMENT AND WATER SUPPLY SYSTEMS

Name:	Etleva
Surname:	Demiri
Institution/ Organization: (If you wish to remain anonymous, please do not fill)	Water Regulatory Authority
Signature:	<i>Etleva</i>

Your Institution/ Organization mission -main scope of the work:

- ☐ Water supply ☒ Authority ☐ Research Organization ☐ Association
☐ Other (please specify)

In which sector would you locate your activities?

- ☒ water ☐ agricultural ☐ education/research
☐ international cooperation ☐ financial/ legislative ☐ other, namely :

What spatial scale reflects the best your activities and tasks?

- ☐ Local ☐ regional ☒ national
☐ international ☐ other, namely :

What are the main water supply issues/ problems?
(Please rank them: 1 the most significant , 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

- ☒ 1 Losses ☒ 5 Quantity ☒ 5 Quality ☒ 2 Water tariffs
☒ 5 Seasonal fluctuations ☒ 2 Policies & legislation framework ☒ 7 Capacities
☒ 2 Lack of funding ☒ 3 Infrastructure ☒ 4 Climate change ☒ 4 Weak Cooperation
☒ 5 Other, namely :

What are the most important steps and activities that would improve water supply?

- work on water supply and sewerage services
- Approval and implementation of the MasterPlan in WSS sector.
- Continue the regionalization process of WSS services through implementation of the sector strategy.
- Reduction of the non-revenue water level.
- Increase the metering level in water production and consumption.
- Increase the collection efficiency.
- Better management for the reduction of services cost from the water companies.

Do you think that some cross-cutting issues can be solved by:

(Please rank them: 1 the most significant , 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

- ☒ Policy that would address the majority of issues
- ☒ Separate policies that would address the majority of issues
- ☒ Better cooperation among different sectors
- ☒ Better cooperation among local and national authorities
- ☒ More financial resources
- ☒ Water tariffs
- ☐ Other, namely :

Please list the 3 most significant actors/ actions for improved water supply:

- Better management
- Proper allocation of investments

What are the actions that your institution/ organization might take to improve water supply and contribute to its sustainability?

- Regulate services through tariff policies.
- Help WS companies achieving financial sustainability through setting achievable performance targets.

Do you think that only state activities contribute to improved water supply:

☐ YES ☒ No

If the answer is NO please list other institutional levels of significance:

Foreign donors
Association
NGO

Are there legislative frameworks (treaties, agreements, MoA, etc.) that are significant for cross-border/ regional water supply systems you are familiar with in your country:

☐ YES ☒ No

If the answer is yes, please provide the title

What are the most important topics that you would like to become more familiar regarding to cross- border /regional water supply systems?

- Licensing & Tariff regime
- Performance monitoring
- Consumer protection

QUESTIONNAIRE ON CROSS BORDER /REGIONAL WATER RESOURCES MANAGEMENT AND WATER SUPPLY SYSTEMS

Name: Surname: Institution/ Organization: <i>(If you wish to remain anonymous, please do not fill)</i> Signature:	Jovan
	Gjika
	General Directorate of Water Supply and Sewerage Ministry of Transport and Infrastructure Albania
Your Institution/ Organization mission -main scope of the work:	
<input type="checkbox"/> Water supply <input checked="" type="checkbox"/> Authority <input type="checkbox"/> Research Organization <input type="checkbox"/> Association <input type="checkbox"/> Other (please specify)	
In which sector would you locate your activities?	
<input checked="" type="checkbox"/> water <input type="checkbox"/> agricultural <input type="checkbox"/> education/research <input type="checkbox"/> international cooperation <input type="checkbox"/> financial/ legislative <input type="checkbox"/> other, namely :	
What spatial scale reflects the best your activities and tasks?	
<input type="checkbox"/> Local <input type="checkbox"/> regional <input checked="" type="checkbox"/> national <input type="checkbox"/> international <input type="checkbox"/> other, namely :	
What are the main water supply issues/ problems? (Please rank them: 1 the most significant , 5 the least significant, it is possible assign the same rank to maximum two issues/problems)	
1 Losses 4 Quantity 4 Quality 3 Water tariffs 4 Seasonal fluctuations 3 Policies & legislation framework 2 Capacities 2 Lack of funding 1 Infrastructure 5 Climate change 5 Weak Cooperation <input type="checkbox"/> Other, namely :	
What are the most important steps and activities that would improve water supply? Legislation reform Increase of management in order to reduce the administrative loses and improve services Improvement of infrastructure through increase of investments	

Do you think that some cross-cutting issues can be solved by:

(Please rank them: 1 the most significant , 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

- 4 Policy that would address the majority of issues
- 1 Separate policies that would address the majority of issues
- 3 Better cooperation among different sectors
- 3 Better cooperation among local and national authorities
- 2 More financial resources
- 5 Water tariffs
- ☐ Other, namely :

Please list the 3 most significant actors/ actions for improved water supply:

Legislation reform

Increase of management in order to reduce the administrative loses and improve services

Improvement of infrastructure through increase of investments

What are the actions that your institution/ organization might take to improve water supply and contribute to its sustainability?

Leading the reform on the legislation

Increase financial support for improving the infrastructure

Do you think that only state activities contribute to improved water supply:

☒ YES ☐ No

If the answer is NO please list other institutional levels of significance:

Are there legislative frameworks (treaties, agreements, MoA, etc.) that are significant for cross-border/ regional water supply systems you are familiar with in your country:

☐ YES ☒ No

If the answer is yes, please provide the title

What are the most important topics that you would like to become more familiar regarding to cross- border /regional water supply systems?

Management of the network

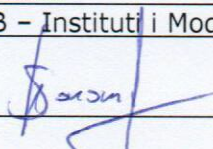
Organization of the service provider and decision making within the provider

Tariff setting

PYETESOR MBI MENAXHIMIN E BURIMEVE UJORE NDERKUFITAR DHE MANAXHIMIN E SITEMIT TE FURNIZIMIT ME UJE TE PIJSHEM

Emer: Mbiemer: Institucioni/ Organizata: <i>(Nqs deshironi te mbeten anonim mos e plotesoni kete rresht)</i> Firma:	<div style="border-bottom: 1px solid black; padding-bottom: 2px; text-align: center;">T A J A R</div> <div style="border-bottom: 1px solid black; padding-bottom: 2px; text-align: center;">B L C I</div> <div style="border-bottom: 1px solid black; padding-bottom: 2px; text-align: center;">SHA "UJESJELLESIA GRAMSH"</div>
Misioni ose qellimi i Institucioni/ Organizates ku ju punoni:	
<input checked="" type="checkbox"/> Furnizim me Uje <input type="checkbox"/> Autoritet <input type="checkbox"/> Institut Kerkimor <input type="checkbox"/> Shoqate <input type="checkbox"/> tjeter (specifikoje)	
Ne cilin sector ushtrohen aktivitetet tuaja?	
<input checked="" type="checkbox"/> uje <input type="checkbox"/> agrikulture <input type="checkbox"/> edukim/pune kerkimore <input type="checkbox"/> bashkeveprim nderkombetar <input type="checkbox"/> financiar/ legjislativ <input type="checkbox"/> tjeter (specifikoje),	
Ne cfare niveli hapsinore pasqyrohen me mire aktivitetet dhe detyrat tuaja tuaja?	
<input checked="" type="checkbox"/> Lokale <input type="checkbox"/> Rajonale <input type="checkbox"/> Kombetare <input type="checkbox"/> Nderkombetare <input type="checkbox"/> tjeter (specifikoje),:	
Cilat jane ceshtjet dhe problematikat kryesore ne lidhje me furnizimin me uje? (Renditini ne shkallen 1-5 ku: 1 me e rendesishmja , 5 me pak e rendesishmja, nqs eshte e mundur caktoni te njejten shkalle per dy problematikat kryesore.)	
<input checked="" type="checkbox"/> Humbjet <input type="checkbox"/> Sasia <input type="checkbox"/> Cilesia <input checked="" type="checkbox"/> Tarifat e ujit <input type="checkbox"/> Luhatjet sezonale <input checked="" type="checkbox"/> Politikat dhe legjislacioni <input type="checkbox"/> Kapacitete njerezore <input checked="" type="checkbox"/> Mungesa e fondeve <input checked="" type="checkbox"/> Infrastruktura <input type="checkbox"/> Ndryshimet klimaterike <input type="checkbox"/> Mungesa e bashkepunimit <input type="checkbox"/> tjeter (specifikoje):	

PYETESOR MBI MENAXHIMIN E BURIMEVE UJORE NDERKUFITAR DHE MANAXHIMIN E SITEMIT TE FURNIZIMIT ME UJE TE PIJSHEM

Emer: Mbiemer: Institucioni/ Organizata: <i>(Nqs deshironi te mbeten anonim mos e plotesoni kete rresht)</i> Firma:	Sagest Ekonomi IMB - Instituti i Modelimeve në Biznes <div style="text-align: center; margin-top: 20px;">  </div>
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Misioni ose qellimi i Institucioni/ Organizates ku ju punoni:

☐ Furnizim me Uje
 ☐ Autoritet
 ☐ Institut Kerkimor
 ☐ Shoqate
☒ tjeter (specifikoje) Institut qe prodhon softuerë per menaxhimin e Ndermarrjeve te Ujesjellesv

Ne cilin sektor ushtrohen aktivitetet tuaja?

☐ uje
 ☐ agrikulture
 ☒ edukim/pune kerkimore
☐ bashkeveprim nderkombetar
 ☒ financiar/ legjislativ
 ☐ tjeter (specifikoje),

Ne cfare niveli hapsinore pasqyrohen me mire aktivitetet dhe detyrat tuaja tuaja?

☐ Lokale
 ☒ Rajonale
 ☐ Kombetare
☐ Nderkombetare
☐ tjeter (specifikoje),:

Cilat jane ceshtjet dhe problematikat kryesore ne lidhje me furnizimin me uje?
 (Renditini ne shkallen 1-5 ku: 1 me e rendesishmja , 5 me pak e rendesishmja, nqs eshte e mundur caktoni te njejten shkalle per dy problematikat kryesore.)

☒ Humbjet
 ☐ Sasia
 ☐ Cilësia
 ☐ Tarifat e ujit
☐ Luhatjet sezonale
 ☐ Politikat dhe legjislacioni
 ☒ Kapacitete njerëzore
☐ Mungesa e fondeve
 ☒ Infrastruktura
 ☐ Ndryshimet klimaterike
☐ Mungesa e bashkepunimit
 ☒ tjeter (specifikoje): Informatizimi i menaxhimit të plotë

Cilat jane hapat dhe aktivitetet me te rendesishme qe do te permiresonin furnizimin me uje?

- Rritja e eficeses se Ndërmarrjeve te Ujësjellës Kanalizimeve nëpërmjet informatizimit të gjithë hallkave tekniko administrative dhe trajnimit të personelit.

A mendoni se disa ceshtje ndersektoriale mund te zgjidhen me:

(Renditini ne shkallen 1-5 ku: 1 me e rendesishmja , 5 me pak e rendesishmja, nqs eshte e mundur caktoni te njejten shkalle per dy problematikat kryesore.)

- ☒ Politika qe do te trajtonin pjesen me te madhe te problematikave,
- ☒ Politika te vecanta qe do te trajtonin pjesen me te madhe te problematikave,
- ☐ Bashkepunim me i mire ndermjet sektoreve te ndryshem.
- ☒ Bashkepunim me i mire ndermjet autoriteteve lokale dhe kombetare
- ☐ Me shume burime financiare
- ☐ Tarifat e ujit
- ☒ tjeter (specifikoje), Politika të informatizimin dhe monitorimit *online*

Përmendni 3 aktoret/veprimet me te rendesishme per permiresimin e furnizimit me uje:

- Informatizimi sa më i plotë i tyre: që nga leximi i ujëmatësve, gjenerimi i faturave, detyrimeve, treguesve ekonomiko financiar, QK, automatizimi i amortizimit, monitorimi me GIS, e deri tek transparenca online e pagesave.
- Trajnimi për rritjen e kapaciteteve njerëzore
- Përmirësimi i kapaciteteve teknike dhe infrastrukturës

Cilat jane veprimet qe insitucioni/organizata juaj mund te ndermarr per te permiresuar furnizimin me uje dhe te kontribuoj ne qendrueshmerin e tij?

- Pajisja e Ndërmarrjeve te Ujësjiellës Kanalizimeve me software për administrimin e ndërmarrjes, finance, faturimin, marrdheniet me konsumatorët dhe rritjen e eficences se pergjithshme.
- Trajnimi i personelit te ndërmarrjeve te Ujësjiellës Kanalizimeve për menaxhimin me te mire te aseteve, faturimit, matësve, prodhimit, humbjeve ne rrjet etj.

A mendini se vetem aktivitetet shteterore kontribuojne ne permiresimin e furnizimit me uje:

☐ Po ☒ Jo

Nqs pergjigja juaj eshte jo, ju lutem listoni nivele te tjera institucionale te rendesishme:

- Aktivitete të shoqatave të NUK, e ndonjë tjetër.

A ka korniza (marveshje, MoA etj) qe jane te rendesishme per sistemet e furnizimit me uje rajonal ose nderkufitar me te cilat ju jeni te njohur ne vendin tuaj?

☐ Po ☐ Jo

Nqs pergjigja juaj eshte po, ju lutem siguroni titujt:

Cilat jane temat me te rendesishme qe ju doni me shume informacion ne lidhje me sistemit e furnizimit me uje rajonal ose nderkufitar?

- Jemi njohës të menaxhimit të ujësjiellësve; kemi bërë informatizim e menaxhimit të sistemeve të Billingut, të Financave, CRM, GIS, etj.

PYETESOR MBI MENAXHIMIN E BURIMEVE UJORE NDERKUFITAR DHE MANAXHIMIN E SITEMIT TE FURNIZIMIT ME UJE TE PIJSHEM

Emer: Mbiemer: Institucioni/ Organizata: <i>(Nqs deshironi te mbeten anonim mos e plotesoni kete rresht)</i> Firma:	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>NDRI CIM</td></tr> <tr><td>PROJ</td></tr> <tr><td>Ujesjelles - Kanalizime Kavaje sh.a</td></tr> <tr><td> </td></tr> </table>	NDRI CIM	PROJ	Ujesjelles - Kanalizime Kavaje sh.a	
NDRI CIM					
PROJ					
Ujesjelles - Kanalizime Kavaje sh.a					
Misioni ose qellimi i Institucioni/ Organizates ku ju punoni: <input checked="" type="checkbox"/> Furnizim me Uje <input type="checkbox"/> Autoritet <input type="checkbox"/> Institut Kerkimor <input type="checkbox"/> Shoqate <input type="checkbox"/> tjeter (specifikoje)					
Ne cilin sector ushtrohen aktivitetet tuaja? <input checked="" type="checkbox"/> uje <input type="checkbox"/> agrikulture <input type="checkbox"/> edukim/pune kerkimore <input type="checkbox"/> bashkeveprim nderkombetar <input type="checkbox"/> financiar/ legjislativ <input type="checkbox"/> tjeter (specifikoje),					
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Cilat jane hapat dhe aktivitetet me te rendesishme qe do te permiresonin furnizimin me uje? <ol style="list-style-type: none"> 1. informimi i popullates per mos shperdorim te ujit 2. Zevendesimi i tubacioneve te vjeter me te rinj. 					

A mendoni se disa ceshtje ndersektoriale mund te zgjidhen me:

(Renditini ne shkallen 1-5 ku: 1 me e rendesishmja , 5 me pak e rendesishmja, nqs eshte e mundur caktoni te njejten shkalle per dy problematikat kryesore.)

- ☐ Politika qe do te trajtonin pjesen me te madhe te problematikave,
- ☐ Politika te vecanta qe do te trajtonin pjesen me te madhe te problematikave, **3**
- ☐ Bashkepunim me i mire ndermjet sektoreve te ndryshem. **2**
- ☐ Bashkepunim me i mire ndermjet autoriteteve lokale dhe kombetare **1**
- ☐ Me shume burime financiare **4**
- ☐ Tarifat e ujit **5**
- ☐ tjeter (specifikoje),

Permendi 3 aktoret/veprimet me te rendesishme per permiresimin e furnizimit me uje:

- 1. vendosje matesi uji familjare dhe ente**
- 2. ulja e humbjeve**
- 3. organizimi i punes**

Cilat jane veprimet qe insitucioni/organizata juaj mund te ndermarr per te permiresuar furnizimin me uje dhe te kontribuoj ne qendrueshmerin e tij?

- 1. Eliminimi i difekteve.**

A mendini se vetem aktivitetet shteterore kontribuojne ne permiresimin e furnizimit me uje:

☒ Po ☐ Jo

Nqs pergjigja juaj eshte jo, ju lutem listoni nivele te tjera institucionale te rendesishme:

A ka korniza (marveshje, MoA etj) qe jane te rendesishme per sistemet e furnizimit me uje rajonal ose nderkufitar me te cilat ju jeni te njohur ne vendin tuaj?

☒ Po ☐ Jo

Nqs pergjigja juaj eshte po, ju lutem siguroni titujt:

Cilat jane temat me te rendesishme qe ju doni me shume informacion ne lidhje me sistemit e furnizimit me uje rajonal ose nderkufitar?

- 1. Bashkepunim sa me te mire me lidhje me sistemin rajonal te furnizimit me uje.**

PYETESOR MBI MENAXHIMIN E BURIMEVE UJORE NDERKUFITAR DHE MANAXHIMIN E SITEMIT TE FURNIZIMIT ME UJE TE PIJSHEM

Emer: Mbiemer: Institucioni/ Organizata: <i>(Nqs deshironi te mbeten anonim mos e plotesoni kete rresht)</i> Firma:	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="padding: 2px;">Arben</td></tr> <tr><td style="padding: 2px;">Jarazi</td></tr> <tr><td style="padding: 2px;">Ujesjelles Kanalizime Korçe SH.A</td></tr> </table>	Arben	Jarazi	Ujesjelles Kanalizime Korçe SH.A													
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Cilat jane hapat dhe aktivitetet me te rendesishme qe do te permiresonin furnizimin me uje?																	
1. Ujla e perqindjeve te humbjeve te ujit 2.																	

A mendoni se disa ceshtje ndersektorale mund te zgjidhen me:

(Renditini ne shkallen 1-5 ku: 1 me e rendesishmja , 5 me pak e rendesishmja, nqs eshte e mundur caktoni te njejten shkalle per dy problematikat kryesore.)

- ☐ 3 Politika qe do te trajtonin pjesen me te madhe te problematikave,
- ☐ 2 Politika te vecanta qe do te trajtonin pjesen me te madhe te problematikave,
- ☐ 1 Bashkepunim me i mire ndermjet sektoreve te ndryshem.
- ☐ 1 Bashkepunim me i mire ndermjet autoriteteve lokale dhe kombetare
- ☐ 1 Me shume burime financiare
- ☐ 2 Tarifat e ujit
- ☐ tjeter (specifikoje),

Permendi 3 aktoret/veprimet me te rendesishme per permiresimin e furnizimit me uje:

1. Sistem inteligjent matjeje
2. Identifikim dhe kontroll i humbejve (teknike + administrative)
3. Mirembajtje e vazhdueshme ne te gjitha hallkat e sistemit te shperndarjes

Cilat jane veprimet qe insitucioni/organizata juaj mund te ndermarr per te permiresuar furnizimin me uje dhe te kontribuoj ne qendrueshmerin e tij?

1. Instalimi i sistemit inteligjent te matjes
2. Infrastruktura te sigurt per shperndarjen e sherbimit
3. Mbajtja ne nivel sa me te ulet te perqindjes se humbjeve te ujit te lejueshme

A mendini se vetem aktivitetet shteterore kontribuojne ne permiresimin e furnizimit me uje:

☐ Po ☐ Jo

Nqs pergjigja juaj eshte jo, ju lutem listoni nivele te tjera institucionale te rendesishme:

1. Shoqata e Ujesjelles Kanalizime te Shqiperise
2. OJF
3. Ndermarjet UK ne vetvete

A ka korniza (marveshje, MoA etj) qe jane te rendesishme per sistemet e furnizimit me uje rajonal ose nderkufitar me te cilat ju jeni te njohur ne vendin tuaj?


☐ Po ☐ Jo

Nqs pergjigja juaj eshte po, ju lutem siguroni titujt:

Cilat jane temat me te rendesishme qe ju doni me shume informacion ne lidhje me sistemit e furnizimit me uje rajonal ose nderkufitar?

1. Menaxhimi i integruar i burimeve ujore
2. Rajonalizimi i UK

PYETESOR MBI MENAXHIMIN E BURIMEVE UJORE NDERKUFITAR DHE MANAXHIMIN E SITEMIT TE FURNIZIMIT ME UJE TE PIJSHEM

Emer: Mbiemer: Institucioni/ Organizata: (Nqs deshironi te mbeteni anonim mos e plotesoni kete rresht) Firma:	Agron Gega Sh. A. Llyesjelles Kanalizime Lirachel 
Misioni ose qellimi i Institucioni/ Organizates ku ju punoni: <input checked="" type="checkbox"/> Furnizim me Uje <input type="checkbox"/> Autoritet <input type="checkbox"/> Institut Kerkimor <input type="checkbox"/> Shoqate <input type="checkbox"/> tjeter (specifikoje)	
Ne cilin sector ushtrohen aktivitetet tua? <input checked="" type="checkbox"/> uje <input type="checkbox"/> agrikulture <input type="checkbox"/> edukim/pune kerkimore <input type="checkbox"/> bashkeveprim nderkombetar <input type="checkbox"/> financiar/ legjislativ <input type="checkbox"/> tjeter (specifikoje),	
Ne cfare niveli hapsinore pasqyrohen me mire aktivitetet dhe detyrat tua? <input type="checkbox"/> Lokale <input checked="" type="checkbox"/> Rajonale <input type="checkbox"/> Kombetare <input type="checkbox"/> Nderkombetare <input type="checkbox"/> tjeter (specifikoje),:	
Cilat jane ceshtjet dhe problematikat kryesore ne lidhje me furnizimin me uje? (Renditini ne shkallen 1-5 ku: 1 me e rendesishmja , 5 me pak e rendesishmja, nqs eshte e mundur caktoni te njejten shkalle per dy problematikat kryesore.) <input checked="" type="checkbox"/> Humbjet <input type="checkbox"/> Sasia <input type="checkbox"/> Cilesia <input checked="" type="checkbox"/> Tarifat e ujit <input checked="" type="checkbox"/> Luhatjet sezonale <input type="checkbox"/> Politikat dhe legjislacioni <input type="checkbox"/> Kapacitete njerezore <input checked="" type="checkbox"/> Mungesa e fondeve <input checked="" type="checkbox"/> Infrastruktura <input type="checkbox"/> Ndryshimet klimaterike <input type="checkbox"/> Mungesa e bashkepunimit <input type="checkbox"/> tjeter (specifikoje):	
Cilat jane hapat dhe aktivitetet me te rendesishme qe do te permiresonin furnizimin me uje? Reduktimi i humbjeve, ndertimi i njetit, rritja e mbulimit me shpallim, rritja e nivelit te arketimit	

A mendoni se disa ceshtje ndersektoriale mund te zgjidhen me:

(Renditini ne shkallen 1-5 ku: 1 me e rendesishmja , 5 me pak e rendesishmja, nqs eshte e mundur caktoni te njejten shkalle per dy problematikat kryesore.)

- ☐ Politika qe do te trajtonin pjesen me te madhe te problematikave,
- ☒ Politika te vecanta qe do te trajtonin pjesen me te madhe te problematikave,
- ☒ Bashkepunim me i mire ndermjet sektoreve te ndryshem.
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- ☒ Me shume burime financiare
- ☒ Tarifat e ujit
- ☐ tjeter (specifikoje),

Permendi 3 aktoret/veprimet me te rendesishme per permiresimin e furnizimit me uje:

1. Bashkepunim institucional.
2. Pushteti vendor /lokal.
3. Pushteti qendror.

P. V
P. Q
K. MB

Cilat jane veprimet qe insitucioni/organizata juaj mund te ndermarr per te permiresuar furnizimin me uje dhe te kontribuoj ne qendrueshmerin e tij?

- Hiac mbajtje e ri jetit eksistues,
- Nolevini, lidhjeve ilegale.

A mendini se vetem aktivitetet shteterore kontribuojne ne permiresimin e furnizimit me uje:

☐ Po ☒ Jo

Nqs pergjigja juaj eshte jo, ju lutem listoni nivele te tjera institucionale te rendesishme:

Aktivitetet private, bizneset lokale.

A ka korniza (marveshje, MoA etj) qe jane te rendesishme per sistemet e furnizimit me uje rajonal ose nderkufitar me te cilat ju jeni te njohur ne vendin tuaj?

☐ Po ☒ Jo

Nqs pergjigja juaj eshte po, ju lutem siguroni titujt:

Cilat jane temat me te rendesishme qe ju doni me shume informacion ne lidhje me sistemit e furnizimit me uje rajonal ose nderkufitar?

- Menexhimi rajonal i furnizimit me uje te pijshem
- Menexhimi rajonal i begimit dhe traktimit te ujeve te ndotura
- Politikot, procedurat menexhuese, teknike rajonale.

QUESTIONNAIRE ON CROSS BORDER /REGIONAL WATER RESOURCES MANAGEMENT AND WATER SUPPLY SYSTEMS

Name:	Viola Saliaga
Surname:	
Institution/ Organization: (If you wish to remain anonymous, please do not fill)	Ministry of Environment
Signature:	<i>[Signature]</i>

Your Institution/ Organization mission -main scope of the work:

☐ Water supply ☒ Authority ☐ Research Organization ☐ Association
☐ Other (please specify)

In which sector would you locate your activities?

☐ water ☐ agricultural ☐ education/research
☐ international cooperation ☐ financial/ legislative ☒ other, namely: *Environment*

What spatial scale reflects the best your activities and tasks?

☐ Local ☐ regional ☒ national
☐ international ☐ other, namely :

What are the main water supply issues/ problems?
(Please rank them: 1 the most significant , 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

☒ Losses ☐ Quantity ☒ Quality ☒ Water tariffs
☒ Seasonal fluctuations ☐ Policies & legislation framework ☒ Capacities
☐ Lack of funding ☒ Infrastructure ☐ Climate change ☐ Weak Cooperation
☐ Other, namely :

What are the most important steps and activities that would improve water supply?

*Improve the infrastructure on water supply, specifically at rural areas. Investments on water treatment and disinfection, excluding the use of chlorine.
Improve the water metering process, installing new meters (electronic).*

Do you think that some cross-cutting issues can be solved by:

(Please rank them: 1 the most significant, 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

- ☒ 5 Policy that would address the majority of issues
- ☐ Separate policies that would address the majority of issues
- ☒ 3 Better cooperation among different sectors
- ☒ 2 Better cooperation among local and national authorities
- ☒ 7 More financial resources
- ☐ 4 Water tariffs
- ☐ Other, namely :

Please list the 3 most significant actors/ actions for improved water supply:

Infrastructure → Ministry of Transport
Quality → -11- of Health, M. of Environment
Financial Resources → -12- of Finance

What are the actions that your institution/ organization might take to improve water supply and contribute to its sustainability?

Enforce legal framework in cooperation with other line institutions.

Do you think that only state activities contribute to improved water supply:

☐ YES ☒ No

If the answer is NO please list other institutional levels of significance:

Local Governments, Civil Society, Private entities, Universities,

Are there legislative frameworks (treaties, agreements, MoA, etc.) that are significant for cross-border/ regional water supply systems you are familiar with in your country:

☐ YES ☒ No

If the answer is yes, please provide the title

What are the most important topics that you would like to become more familiar regarding to cross- border /regional water supply systems?

Regional Cooperation (cross-border) on water quality improvement.

PYETESOR MBI MENAXHIMIN E BURIMEVE UJORE NDERKUFITAR DHE MANAXHIMIN E SITEMIT TE FURNIZIMIT ME UJE TE PIJSHEM

Emer: Mbiemer: Institucioni/ Organizata: <i>(Nqs deshironi te mbeten anonim mos e plotesoni kete rresht)</i> Firma:	<div style="border: 1px solid black; height: 20px; margin-bottom: 2px;"></div> <div style="border: 1px solid black; height: 20px; margin-bottom: 2px;"></div> <div style="border: 1px solid black; height: 20px; margin-bottom: 2px;">UJESJELLES KANALIZIME SH.A POGRADEC</div> <div style="border: 1px solid black; height: 20px;"></div>
Misioni ose qellimi i Institucioni/ Organizates ku ju punoni: <input checked="" type="checkbox"/> Furnizim me Uje <input type="checkbox"/> Autoritet <input type="checkbox"/> Institut Kerkimor <input type="checkbox"/> Shoqate <input type="checkbox"/> tjeter (specifikoje)	
Ne cilin sector ushtrohen aktivitetet tuaja? <input checked="" type="checkbox"/> uje <input type="checkbox"/> agrikulture <input type="checkbox"/> edukim/pune kerkimore <input type="checkbox"/> bashkeveprim nderkombetar <input type="checkbox"/> financiar/ legjislativ <input type="checkbox"/> tjeter (specifikoje),	
Ne cfare niveli hapsinore pasqyrohen me mire aktivitetet dhe detyrat tuaja tuaja? <input type="checkbox"/> Lokale <input checked="" type="checkbox"/> Rajonale <input type="checkbox"/> Kombetare <input type="checkbox"/> Nderkombetare <input type="checkbox"/> tjeter (specifikoje),:	
Cilat jane ceshtjet dhe problematikat kryesore ne lidhje me furnizimin me uje? (Renditini ne shkallen 1-5 ku: 1 me e rendesishmja , 5 me pak e rendesishmja, nqs eshte e mundur caktoni te njejten shkalle per dy problematikat kryesore.) 2 Humbjet <input type="checkbox"/> Sasia 1 Cilesia <input type="checkbox"/> Tarifat e ujit <input type="checkbox"/> Luhatjet sezonale 3 Politikat dhe legjislacioni 5 Kapacitete njerezore 4 Mungesa e fondeve <input type="checkbox"/> Infrastruktura <input type="checkbox"/> Ndryshimet klimaterike <input type="checkbox"/> Mungesa e bashkepunimit <input type="checkbox"/> tjeter (specifikoje):	
Cilat jane hapat dhe aktivitetet me te rendesishme qe do te permiresonin furnizimin me uje? ULJA E HUMBJEVE MATJA E UJIT REDUKTIMI DHE MONITORIMI I PRESIONIT NDARJA E SISTEMIT NE ZONA SHERBIMI	

A mendoni se disa ceshtje ndersektorale mund te zgjidhen me:

(Renditini ne shkallen 1-5 ku: 1 me e rendesishmja , 5 me pak e rendesishmja, nqs eshte e mundur caktoni te njejten shkalle per dy problematikat kryesore.)

- ☐ Politika qe do te trajtonin pjesen me te madhe te problematikave,
- 5 Politika te vecanta qe do te trajtonin pjesen me te madhe te problematikave,
- 4 Bashkepunim me i mire ndermjet sektoreve te ndryshem.
- 3 Bashkepunim me i mire ndermjet autoriteteve lokale dhe kombetare
- 1 Me shume burime financiare
- 2 Tarifat e ujit
- ☐ tjeter (specifikoje),

Permendi 3 aktoret/veprimet me te rendesishme per permiresimin e furnizimit me uje:

Stafi
Tarifat
Investime

Cilat jane veprimet qe insitucioni/organizata juaj mund te ndermarr per te permiresuar furnizimin me uje dhe te kontribuoj ne qendrueshmerin e tij?

Ulja e % NRW per te dyja natyrat (reale dhe komerciale)

A mendini se vetem aktivitetet shteterore kontribuojne ne permiresimin e furnizimit me uje:

X Po ☐ Jo

Nqs pergjigja juaj eshte jo, ju lutem listoni nivele te tjera institucionale te rendesishme:

A ka korniza (marveshje, MoA etj) qe jane te rendesishme per sistemet e furnizimit me uje rajonal ose nderkufitar me te cilat ju jeni te njohur ne vendin tuaj?

X Po ☐ Jo

Nqs pergjigja juaj eshte po, ju lutem siguroni titujt:

“MBROJTJA MJEDISORE E LIQENIT TE OHRIT”

Cilat jane temat me te rendesishme qe ju doni me shume informacion ne lidhje me sistemit e furnizimit me uje rajonal ose nderkufitar?

ZBULIMIN E RRJEDHJEVE

PYETESOR MBI MENAXHIMIN E BURIMEVE UJORE NDERKUFITAR DHE MANAXHIMIN E SITEMIT TE FURNIZIMIT ME UJE TE PIJSHEM

Emer: Mbiemer: Institucioni/ Organizata: (Nqs deshironi te mbeten anonim mos e plotesoni kete rresht) Firma:	<div style="border-bottom: 1px solid black; padding-bottom: 2px;">shpresa</div> <div style="border-bottom: 1px solid black; padding-bottom: 2px;">Kodra</div> <div style="border-bottom: 1px solid black; padding-bottom: 2px;">Sh.a. pjesjetelle - komunalizime gjyter</div> <div style="border-bottom: 1px solid black; padding-bottom: 2px;">Shkodër</div>
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Misioni ose qellimi i Institucioni/ Organizates ku ju punoni:

- ☒ Furnizim me Uje
 ☐ Autoritet
 ☐ Institut Kerkimor
 ☐ Shoqate
☐ tjeter (specifikoje)

Ne cilin sector ushtrohen aktivitetet tua?

- ☒ uje
 ☐ agrikulture
 ☐ edukim/pune kerkimore
☐ bashkeveprim nderkombetar
☐ financiar/ legjislativ
☐ tjeter (specifikoje),

Ne cfare niveli hapsinore pasqyrohen me mire aktivitetet dhe detyrat tua?

- ☒ Lokale
 ☐ Rajonale
 ☐ Kombetare
☐ Nderkombetare
☐ tjeter (specifikoje),:

Cilat jane ceshtjet dhe problematikat kryesore ne lidhje me furnizimin me uje?
 (Renditini ne shkallen 1-5 ku: 1 me e rendesishmja , 5 me pak e rendesishmja, nqs
 eshte e mundur caktoni te njejten shkalles per dy problematikat kryesore.)

- ☒ Humbjet
 ☐ Sasia
 ☐ Cilesia
 ☐ Tarifat e ujit
☐ Luhatjet sezonale
☐ Politikat dhe legjislacioni
☐ Kapacitete njerezore
☐ Mungesa e fondeve
☒ Infrastruktura
☐ Ndryshimet klimaterike
☐ Mungesa e bashkepunimit
☐ tjeter (specifikoje):

Cilat jane hapat dhe aktivitetet me te rendesishme qe do te permiresonin furnizimin me uje?

- Nderërtimi i një sistemi të ri furnizimi me ujë për
 komunën Rrethina për një mënyrë të pajisjes me
 furnizim me ujë nga ndërkufjet individuale në tubat
 kryesor të transportimit nga Stacioni - Rrethina shpesh ndalet.
 • Ky investim do të mundësojë zbritjen e 40% të humbjeve
 • zbritjen e 40% të fakturës energjetike elektrike
 • Permiresim furnizimi me ujë të konsumatorit klient
 i UKS.

A mendoni se disa ceshtje ndersëktoriale mund të zgjidhen me:

(Renditini në shkallën 1-5 ku: 1 me e rëndësishmja, 5 me pak e rëndësishmja, nqs është e mundur caktoni të njëjten shkallë për dy problematikat kryesore.)

- ☒ Politika që do të trajtonin pjesën më të madhe të problematikave,
- ☐ Politika të vecanta që do të trajtonin pjesën më të madhe të problematikave,
- ☐ Bashkëpunim me i mire ndërmjet sektoreve të ndryshëm.
- ☐ Bashkëpunim me i mire ndërmjet autoriteteve lokale dhe kombetare
- ☒ Me shumë burime financiare
- ☐ Tarifat e ujit
- ☐ tjetër (specifikojë),

Permendi 3 aktoret/veprimet më të rëndësishme për permiresimin e furnizimit me ujë:

- shpërndarja e kumës rrethimor nga uksi në ndërtim sistemi të ri
- zbrirja e komunit të energjisë 24h/kw
- Rehabilitim rrethit shpërndarës, katim tubacionesh për rrugë publike

Cilat janë veprimet që insitucioni/organizata juaj mund të ndermarr për të permiresuar furnizimin me ujë dhe të kontribuoj në qëndrueshmërinë e tij?

Pa mbështetjen e Qeverisë në vendim marrje dhe financime, Nollësmonja vetëm nuk mund të rregullojë faktura Energjitik Elektrike është tepër e lartë

A mendini se vetëm aktivitetet shtetërore kontribuojnë në permiresimin e furnizimit me ujë:

- ☒ Po ☐ Jo Fugimisht dhe në mënyrë Performancore
- Nqs përgjigja juaj është jo, ju lutem listoni nivele të tjera institucionale të rëndësishme:

A ka korniza (marveshje, MoA etj) që janë të rëndësishme për sistemet e furnizimit me ujë rajonal ose nderkufitar me të cilat ju jeni të njohur në vendin tuaj?

- ☒ Po ☐ Jo

Nqs përgjigja juaj është po, ju lutem siguroni titujt:

se ligjëllëri Fshot Shkodër dhe ligjëllëri Malësia-Maletë janë bashkuar në një ligjëllëri Rajonal.

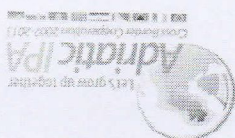
Cilat janë temat më të rëndësishme që ju doni më shumë informacion në lidhje me sistemit e furnizimit me ujë rajonal ose nderkufitar?

- Në aspektin teknik si konceptet e një ligjëllëri Rajonal? A ka llojë sisteme të furnizimit të dy anësve sipas

meqajve

A do kenë subvencionim nga shteti për ligjëllësit e vegjël në rrethje mehanike janë me humbje ekonomike.

PYETESOR MBI MENAXHIMIN E BURIMEVE UJORE **NDERKUFITAR DHE MANAXHIMIN E SITEMIT TE** **FURNIZIMIT ME UJE TE PIJSHEM**



Emri:	
Mbimer:	
Institucion/ Organizata:	
Firma:	

Misioni ose qellimi i Institucion/ Organizates ku ju punoni:

☒ Furnizim me Uje ☐ Autoritet ☐ Institut Kerkimor ☐ Shogate
☒ tjeter (specifikoje) *LARGIMI I UJESAVE TE NDOTUR*

Ne cilin sektor ushtrohen aktivitetet tuaja?

☒ uje ☐ agrikulture ☐ edukim/pune kerkimore
☐ bashkeveprim nderkombetar ☐ financiar/ legjislativ ☐ tjeter (specifikoje),

Ne cfare niveli hapsinore pasqyrohen me mire aktivitetet dhe detyrat tuaja tuaja?

☒ Lokale ☐ Rajonale ☐ Kombetare
☐ Nderkombetare ☐ tjeter (specifikoje),

Cilat jane ceshjet dhe problematikat kryesore ne lidhje me furnizimin me uje? (Renditini ne shkalen 1-5 ku: 1 me e rendesishmja , 5 me pak e rendesishmja, nqs eshte e mundur caktoni te njejten shkalje per dy problematikat kryesore.)

☒ Humbjet ☒ Sasia ☒ Cilësia ☒ Tarifat e ujit
☒ Luhatjet sezonale ☒ Politikat dhe legjislacioni ☒ Kapacitete njerezore
☒ Mungesa e fondeve ☒ Infrastruktura ☒ Ndryshimet klimatike
☒ Mungesa e bashkepunimit ☒ tjeter (specifikoje):

Cilat jane hapat dhe aktivitetet me te rendesishme qe do te permiirresonin furnizimin me uje?

- *PERMISINI I RAKETIT TE BAKUSHEM TE FURNIZIMIT.*
 - *MBETIMI I VERPAVE (VJESHELCE) ME SA ME PAK KOSTO.*

A mendoni se disa cështje ndersëktoriale mund të zgjidhen me:
(Renditni në shkallën 1-5 ku: 1 me e rëndësishmja, 5 me pak e rëndësishmja, nqs është e mundur caktoni të njejten shkallë për dy problematikat kryesore.)

- ☒ 4 Politika që do të trajtonin pjesën me të madhe të problematikave,
- ☒ 3 Politika të vecanta që do të trajtonin pjesën me të madhe të problematikave,
- ☒ 5 Bashkëpunim me i mire ndërmjet sektorëve të ndryshëm.
- ☒ 5 Bashkëpunim me i mire ndërmjet autoriteteve lokale dhe kombëtare
- ☒ 2 Me shume burime financiare
- ☒ 1 Tarifat e ujit
- ☐ Tjeter (specifikoje),

Permendi 3 aktore/veprimet me të rëndësishme për permiresimin e furnizimit me uje:

- CILSIA E UJIT
- KONT E FURNIZIMIT
- CILMINIMI I DIFERENC.

Cilat jane veprimet që insitucioni/organizata juaj mund të ndermarr për të permiresuar furnizimin me uje dhe të kontribuoj ne gendrueshmerin e tij?

- KALITA E NIVELIT TE FURNIZIMIT
- KALITA E AKTIVITETE
- KALITA E FURNIZIMEVE

A mendini se vetem aktivitetet shtetërore kontribuojne ne permiresimin e furnizimit me uje:
☒ Po ☐ Jo

Nqs pergjigja juaj është jo, ju lutem listoni nivele të tjera institucionale të rëndësishme:

A ka korniza (marveshje, MoA etj) që janë të rëndësishme për sistemet e furnizimit me uje rajonal ose nderkufitar me të cilat ju jeni të njohur ne vendin tuaj?


☒ Po ☐ Jo

Nqs pergjigja juaj është po, ju lutem siguronit titujt:

Cilat jane temat me të rëndësishme që ju doni me shume informacion ne lidhje me sistemit e furnizimit me uje rajonal ose nderkufitar?

INFORMATION PER PERMISIMIN E HUMBETES NE KAZH
SHE NE BAZENET UDONTE NGJERKUFITARE.

QUESTIONNAIRE ON CROSS BORDER /REGIONAL WATER RESOURCES MANAGEMENT AND WATER SUPPLY SYSTEMS

Name:	Viola Sellosi
Surname:	Tirana Water Supply and Sewerage Utility
Institution/ Organization: (If you wish to remain anonymous, please do not fill)	
Signature:	

Your Institution/ Organization mission -main scope of the work:

☒ Water supply ☐ Authority ☐ Research Organization ☐ Association
☐ Other (please specify)

In which sector would you locate your activities?

☒ water ☐ agricultural ☐ education/research
☐ international cooperation ☐ financial/ legislative ☐ other, namely :

What spatial scale reflects the best your activities and tasks?

☐ Local ☒ regional ☐ national
☐ international ☐ other, namely :

What are the main water supply issues/ problems?
(Please rank them: 1 the most significant , 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

☒ Losses ☒ Quantity ☒ Quality ☒ Water tariffs
☒ Seasonal fluctuations ☒ Policies & legislation framework ☒ Capacities
☒ Lack of funding ☒ Infrastructure ☒ Climate change ☒ Weak Cooperation
☐ Other, namely :

What are the most important steps and activities that would improve water supply?

- Reduction of technical and administrative water losses
 - Capacity building
 - Better management and organization of the WSS utilities

Do you think that some cross-cutting issues can be solved by:

(Please rank them: 1 the most significant , 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

- ☒ 3 Policy that would address the majority of issues
- ☒ 2 Separate policies that would address the majority of issues
- ☒ 1 Better cooperation among different sectors
- ☒ 2 Better cooperation among local and national authorities
- ☒ 1 More financial resources
- ☒ 4 Water tariffs
- ☐ Other, namely :

Please list the 3 most significant actors/ actions for improved water supply:

- Reduction of the water losses.
- Increase of the capacity buildings event and trainings
- Better management and organization of the WSS utilities

What are the actions that your institution/ organization might take to improve water supply and contribute to its sustainability?

- Decreasing the water losses by ~~it~~ increasing the metering level and eliminating the illegal connections
- Better management and administration of the organization.
- Increasing the water tariff collection.

Do you think that only state activities contribute to improved water supply:

☐ YES ☒ No

If the answer is NO please list other institutional levels of significance:

- Donors
- NGB
- Private companies

Are there legislative frameworks (treaties, agreements, MoA, etc.) that are significant for cross-border/ regional water supply systems you are familiar with in your country:

☐ YES ☐ No

If the answer is yes, please provide the title

UNECE convention on transboundary water.

What are the most important topics that you would like to become more familiar regarding to cross- border /regional water supply systems?

- Management and policies for shared water sources
- Methodologies for using water from neighboring countries

PYETESOR MBI MENAXHIMIN E BURIMEVE UJORE NDERKUFITAR DHE MANAXHIMIN E SITEMIT TE FURNIZIMIT ME UJE TE PIJSHEM

Emer: Mbiemer: Institucioni/ Organizata: (Nqs deshironi te mbeten anonim mos e platesoni kete rresht) Firma:	<div style="text-align: center; font-family: cursive;">KOL</div> <div style="text-align: center; font-family: cursive;">NDOKAJ</div> <div style="text-align: center; font-family: cursive;">NO. LIJESJELLESIT VAU-DEJES</div> <div style="text-align: center; font-family: cursive;"> </div>
Misioni ose qellimi i Institucioni/ Organizates ku ju punoni:	
<input checked="" type="checkbox"/> Furnizim me Uje <input type="checkbox"/> Autoritet <input type="checkbox"/> Institut Kerkimor <input type="checkbox"/> Shoqate <input type="checkbox"/> tjeter (specifikoje)	
Ne cilin sector ushtrohen aktivitetet tuaja?	
<input checked="" type="checkbox"/> uje <input type="checkbox"/> agrikulture <input type="checkbox"/> edukim/pune kerkimore <input type="checkbox"/> bashkeveprim nderkombetar <input type="checkbox"/> financiar/ legjislativ <input type="checkbox"/> tjeter (specifikoje),	
Ne cfare niveli hapsinore pasqyrohen me mire aktivitetet dhe detyrat tuaja tuaja?	
<input checked="" type="checkbox"/> Lokale <input type="checkbox"/> Rajonale <input type="checkbox"/> Kombetare <input type="checkbox"/> Nderkombetare <input type="checkbox"/> tjeter (specifikoje),:	
Cilat jane ceshtjet dhe problematikat kryesore ne lidhje me furnizimin me uje? (Renditini ne shkallen 1-5 ku: 1 me e rendesishmja, 5 me pak e rendesishmja, nqs eshte e mundur caktoni te njejten shkalles per dy problematikat kryesore.)	
<div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input checked="" type="checkbox"/> Humbjet <input checked="" type="checkbox"/> Sasia <input checked="" type="checkbox"/> Cilesia <input checked="" type="checkbox"/> Tarifat e ujit </div> <div style="width: 50%;"> <input checked="" type="checkbox"/> Luhatjet sezonale <input checked="" type="checkbox"/> Politikat dhe legjislacioni <input checked="" type="checkbox"/> Kapacitete njerezore </div> <div style="width: 50%;"> <input checked="" type="checkbox"/> Mungesa e fondeve <input checked="" type="checkbox"/> Infrastruktura <input checked="" type="checkbox"/> Ndryshimet klimaterike </div> <div style="width: 50%;"> <input checked="" type="checkbox"/> Mungesa e bashkepunimit <input type="checkbox"/> tjeter (specifikoje): </div> </div>	
Cilat jane hapat dhe aktivitetet me te rendesishme qe do te permiresonin furnizimin me uje?	
<div style="font-family: cursive;"> <ul style="list-style-type: none"> - Vendasja e matësave inteligjent (qe permireson arketimet) - Rikonstruksion i rrjetit ne tërësi. (primar + sekondar) - Rikonstruksion i depove dhe rritje e kapacitetit. - Financime për projekte per gjithë territorin e bashkisë (pasi nuk mbulohen të gjitha Whatrat me ujesjellës-kanalizime) </div>	

Bashkisë (pasi nuk mbulohen të gjitha Whatrat me ujesjellës-kanalizime)

A mendoni se disa ceshtje ndersektoriale mund te zgjidhen me:

(Renditini ne shkallen 1-5 ku: 1 me e rendesishmja, 5 me pak e rendesishmja, nqs eshte e mundur caktoni te njejten shkalle per dy problematikat kryesore.)

- ☒ 3 Politika qe do te trajtonin pjesen me te madhe te problematikave,
- ☒ 4 Politika te vecanta qe do te trajtonin pjesen me te madhe te problematikave,
- ☒ 2 Bashkepunim me i mire ndermjet sektoreve te ndryshem.
- ☒ 2 Bashkepunim me i mire ndermjet autoriteteve lokale dhe kombetare
- ☒ 4 Me shume burime financiare
- ☒ 3 Tarifat e ujit
- ☐ tjetër (specifikoje),

Permendi 3 aktoret/veprimet me te rendesishme per permiresimin e furnizimit me uje:

- *Permiresimi i infrastrukturës së rrjetit*
- *Vëndosja e matësve*
- *Rritja dhe permiresimi i kapaciteteve.*

Cilat jane veprimet qe insitucioni/organizata juaj mund te ndermarr per te permiresuar furnizimin me uje dhe te kontribuoj ne qendrueshmerin e tij?

- *Zvogëlimi i humbjeve nga ndërrryjet në rrjet.*
- *Rritjen e nivelit të qarkutimeve me mbelhtetjen e një taks force dhe organeve të pushtetit vendor.*

A mendini se vetem aktivitetet shteterore kontribuojne ne permiresimin e furnizimit me uje:

☒ Po ☐ Jo

Nqs pergjigja juaj eshte jo, ju lutem listoni nivele te tjera institucionale te rendesishme:

A ka korniza (marveshje, MoA etj) qe jane te rendesishme per sistemet e furnizimit me uje rajonal ose nderkufitar me te cilat ju jeni te njohur ne vendin tuaj?

☐ Po ☒ Jo

Nqs pergjigja juaj eshte po, ju lutem siguroni titujt:

Cilat jane temat me te rendesishme qe ju doni me shume informacion ne lidhje me sistemit e furnizimit me uje rajonal ose nderkufitar?

- *Angazhimi për projekte dhe masterplane për mbulimin e gjithë zonës së shërbimit.*

PYETESOR MBI MENAXHIMIN E BURIMEVE UJORE NDERKUFITAR DHE MANAXHIMIN E SITEMIT TE FURNIZIMIT ME UJE TE PIJSHEM

Emer: Mbiemer: Institucioni/ Organizata: <i>(Nqs deshironi te mbeten anonim mos e plotesoni kete rresht)</i> Firma:	<div style="border: 1px solid black; height: 30px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 30px; margin-bottom: 5px; text-align: center;"> <i>Udhëheqës Komunitar Vlorë</i> </div> <div style="border: 1px solid black; height: 30px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 30px; margin-bottom: 5px;"></div>
Misioni ose qllimi i Institucioni/ Organizates ku ju punoni:	
<input checked="" type="checkbox"/> Furnizim me Uje <input type="checkbox"/> Autoritet <input type="checkbox"/> Institut Kerkimor <input type="checkbox"/> Shoqate <input type="checkbox"/> tjeter (specifikoje)	
Ne cilin sector ushtrohen aktivitetet tua?	
<input checked="" type="checkbox"/> uje <input type="checkbox"/> agrikulture <input type="checkbox"/> edukim/pune kerkimore <input type="checkbox"/> bashkeveprim nderkombetar <input type="checkbox"/> financiar/ legjislativ <input type="checkbox"/> tjeter (specifikoje),	
Ne cfare niveli hapsinore pasqyrohen me mire aktivitetet dhe detyrat tua?	
<input type="checkbox"/> Lokale <input checked="" type="checkbox"/> Rajonale <input type="checkbox"/> Kombetare <input type="checkbox"/> Nderkombetare <input type="checkbox"/> tjeter (specifikoje),:	
Cilat jane ceshtjet dhe problematikat kryesore ne lidhje me furnizimin me uje? (Renditini ne shkallen 1-5 ku: 1 me e rendesishmja , 5 me pak e rendesishmja, nqs eshte e mundur caktoni te njejten shkalle per dy problematikat kryesore.)	
<div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> 1 <input type="checkbox"/> Humbjet 4 <input type="checkbox"/> Sasia 3 <input type="checkbox"/> Cilesia 5 <input type="checkbox"/> Tarifat e ujit </div> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> 5 <input type="checkbox"/> Luhatjet sezonale 3 <input type="checkbox"/> Politikat dhe legjislacioni 2 <input type="checkbox"/> Kapacitete njerezore </div> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> 1 <input type="checkbox"/> Mungesa e fondeve 2 <input type="checkbox"/> Infrastruktura 5 <input type="checkbox"/> Ndryshimet klimaterike </div> <div style="display: flex; justify-content: space-between;"> 2 <input type="checkbox"/> Mungesa e bashkepunimit <input type="checkbox"/> tjeter (specifikoje): </div> </div> </div>	
Cilat jane hapat dhe aktivitetet me te rendesishme qe do te permiresonin furnizimin me uje?	
<div style="font-family: cursive;"> - Permiresimi i infrastrukturës - Reforme Legjislative - Reduktimi i humbjeve të ujit - Rritja e mbledhjes së të veshurave </div>	

A mendoni se disa ceshtje ndersektoriale mund te zgjidhen me:

(Renditini ne shkallen 1-5 ku: 1 me e rendesishmja , 5 me pak e rendesishmja, nqs eshte e mundur caktoni te njejten shkalle per dy problematikat kryesore.)

- 5 ☐ Politika qe do te trajtonin pjesen me te madhe te problematikave,
4 ☐ Politika te vecanta qe do te trajtonin pjesen me te madhe te problematikave,
2 ☐ Bashkepunim me i mire ndermjet sektoreve te ndryshem.
2 ☐ Bashkepunim me i mire ndermjet autoriteteve lokale dhe kombetare
1 ☐ Me shume burime financiare
4 ☐ Tarifat e ujit
☐ Tjeter (specifikoje),

Permendi 3 aktoret/veprimet me te rendesishme per permiresimin e furnizimit me uje:

- Menaxhim me i mire
- Me shume investime
- Reduktimi i humbjeve te ujit

Cilat jane veprimet qe insitucioni/organizata juaj mund te ndermarr per te permiresuar furnizimin me uje dhe te kontribuoj ne qendrueshmerin e tij?

- Permiresimi i sherbimit te furnizimit me uje
- Pajisja me qematesa te ri
- Rritja e nivelit te arketimere

A mendini se vetem aktivitetet shteterore kontribuojne ne permiresimin e furnizimit me uje:

☒ Po ☐ Jo

Nqs pergjigja juaj eshte jo, ju lutem listoni nivele te tjera institucionale te rendesishme:

A ka korniza (marveshje, MoA etj) qe jane te rendesishme per sistemet e furnizimit me uje rajonal ose nderkufitar me te cilat ju jeni te njohur ne vendin tuaj?

☐ Po ☒ Jo

Nqs pergjigja juaj eshte po, ju lutem siguroni titujt:

Cilat jane temat me te rendesishme qe ju doni me shume informacion ne lidhje me sistemit e furnizimit me uje rajonal ose nderkufitar?

- Metodologjia per ne bashkepunim dhe menaxhim me te mire ne sistemet e furnizimit rajonal.

QUESTIONNAIRE ON CROSS BORDER /REGIONAL WATER RESOURCES MANAGEMENT AND WATER SUPPLY SYSTEMS

Name: Surname: Institution/ Organization: <i>(If you wish to remain anonymous, please do not fill)</i> Signature:	Sokol
	OLLI
	Albanian Geological Survey

Your Institution/ Organization mission -main scope of the work:

☐ Water supply ☒ Authority ☒ Research Organization ☐ Association
☐ Other (please specify)

In which sector would you locate your activities?

☒ water ☐ agricultural ☒ education/research
☐ international cooperation ☐ financial/ legislative ☐ other, namely :

What spatial scale reflects the best your activities and tasks?

☐ Local ☐ regional ☒ national
☒ international ☐ other, namely :

What are the main water supply issues/ problems?
(Please rank them: 1 the most significant , 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

❶ Losses ❷ Quantity ❶ Quality ❸ Water tariffs
 ❺ Seasonal fluctuations ❹ Policies & legislation framework ❺ Capacities
 ❶ Lack of funding ❷ Infrastructure ❷ Climate change ❸ Weak Cooperation
☐ Other, namely :

What are the most important steps and activities that would improve water supply?

Management of natural resources as a criterion and the pumping stations from the relevant authorities.

Do you think that some cross-cutting issues can be solved by:

(Please rank them: 1 the most significant , 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

- ☒ 3 Policy that would address the majority of issues
- ☒ 2 Separate policies that would address the majority of issues
- ☒ 1 Better cooperation among different sectors
- ☒ 1 Better cooperation among local and national authorities
- ☒ 1 More financial resources
- ☒ 2 Water tariffs
- ☐ Other, namely :

Please list the 3 most significant actors/ actions for improved water supply:

1. Improvement of the distribution network.
2. The control and steps to be taken on indiscriminate use of water resources.
3. Management from the relevant authorities.

What are the actions that your institution/ organization might take to improve water supply and contribute to its sustainability?

The institution where I work, dealing directly with study-research activity of water resources, reserves and calculating the legitimate recommendation on the use of groundwater and surface water.

Do you think that only state activities contribute to improved water supply:

☒ YES ☐ No

If the answer is NO please list other institutional levels of significance:

Are there legislative frameworks (treaties, agreements, MoA, etc.) that are significant for cross-border/ regional water supply systems you are familiar with in your country:

☒ YES ☐ No

If the answer is yes, please provide the title

What are the most important topics that you would like to become more familiar regarding to cross- border /regional water supply systems?

Methodologies of using water from neighboring countries.

PYETESOR MBI MENAXHIMIN E BURIMEVE UJORE NDERKUFITAR DHE MANAXHIMIN E SITEMIT TE FURNIZIMIT ME UJE TE PIJSHEM

<p>Emer: Mbiemer: Institucioni/ Organizata: <i>(Nqs deshironi te mbeten anonim mos e plotesoni kete rresht)</i> Firma:</p>	<p style="text-align: center;"><i>FATMIR</i></p> <p style="text-align: center;"><i>SHALLI</i></p> <p style="text-align: center;"><i>SH.A. UJESKE, KOMBETARE BERAT - KUSOVJE</i></p> <p style="text-align: center;"><i>Shall</i></p>
<p>Misioni ose qellimi i Institucioni/ Organizates ku ju punoni:</p> <p> <input checked="" type="checkbox"/> Furnizim me Uje <input type="checkbox"/> Autoritet <input type="checkbox"/> Institut Kerkimor <input checked="" type="checkbox"/> Shoqate <input type="checkbox"/> tjeter (specifikoje) </p>	
<p>Ne cilin sector ushtrohen aktivitetet tua?</p> <p> <input checked="" type="checkbox"/> uje <input type="checkbox"/> agrikulture <input type="checkbox"/> edukim/pune kerkimore <input type="checkbox"/> bashkeveprim nderkombetar <input type="checkbox"/> financiar/ legjislativ <input type="checkbox"/> tjeter (specifikoje), </p>	
<p>Ne cfare niveli hapsinore pasqyrohen me mire aktivitetet dhe detyrat tua? tua?</p> <p> <input checked="" type="checkbox"/> Lokale <input checked="" type="checkbox"/> Rajonale <input type="checkbox"/> Kombetare <input type="checkbox"/> Nderkombetare <input type="checkbox"/> tjeter (specifikoje),: </p>	
<p>Cilat jane ceshtjet dhe problematikat kryesore ne lidhje me furnizimin me uje? (Renditini ne shkallen 1-5 ku: 1 me e rendesishmja , 5 me pak e rendesishmja, nqs eshte e mundur caktoni te njejten shkalle per dy problematikat kryesore.)</p> <p> <input checked="" type="checkbox"/> Humbjet <input type="checkbox"/> Sasia <input checked="" type="checkbox"/> Cilesia <input checked="" type="checkbox"/> Tarifat e ujit <input type="checkbox"/> Luhatjet sezonale <input checked="" type="checkbox"/> Politikat dhe legjislacioni <input checked="" type="checkbox"/> Kapacitete njerezore <input checked="" type="checkbox"/> Mungesa e fondeve <input type="checkbox"/> Infrastruktura <input type="checkbox"/> Ndryshimet klimaterike <input type="checkbox"/> Mungesa e bashkepunimit <input type="checkbox"/> tjeter (specifikoje): </p>	
<p>Cilat jane hapat dhe aktivitetet me te rendesishme qe do te permiresonin furnizimin me uje?</p> <p> <i>1. Rikonstruksion i rrjetit shpandese qe eshte tejet i mposhtuar, shpernuar me vendosjen e matbave te rejt.</i> <i>2. Rritja e sasis se fortimit dhe ujit qe shpandet per te siguruar koston e flet.</i> </p>	

A mendoni se disa ceshtje ndersektoriale mund te zgjidhen me:

(Renditini ne shkallen 1-5 ku: 1 me c rendesishmja, 5 me pak e rendesishmja, nqs eshte e mundur caktoni te njejten shkalles per dy problematikat kryesore.)

- ☒ Politika qe do te trajtonin pjesen me te madhe te problematikave,
- ☒ Politika te vecanta qe do te trajtonin pjesen me te madhe te problematikave,
- ☒ Bashkepunim me i mire ndermjet sektoreve te ndryshem.
- ☒ Bashkepunim me i mire ndermjet autoriteteve lokale dhe kombetare
- ☒ Me shume burime financiare
- ☒ Tarifat e ujit
- ☒ tjeter (specifikoje),

Permendi 3 aktoret/veprimct me te rendesishme per permiresimin e furnizimit me uje:

- 1- Zvogelimi i humbjeve ne rjet
- 2- Eliminimin dhe largimin e lidhjeve te paligjishme.
- 3- Matja e sakte e sasise se ujit te konsumuar.

Cilat jane veprimet qe insitucioni/organizata juaj mund te ndermarr per te permiresuar furnizimin me uje dhe te kontribuoj ne qendrueshmerin e tij?

1. Zvogelimin e humbjeve ne rjet.
2. Eliminimin dhe largimin e lidhjeve te paligjishme.
3. Matja e sakte e sasise se ujit te konsumuar.

A mendini se vetem aktivitetet shlelerore kontribuojne ne permiresimin e furnizimit me uje:

☒ Po ☐ Jo

Nqs pergjigja juaj eshte jo, ju lutem listoni nivele te tjera institucionale te rendesishme:

A ka korniza (marveshje, MoA etj) qe jane te rendesishme per sistemet e furnizimit me uje rajonal ose nderkufitar me te cilat ju jeni te njohur ne vendin tuaj?

☐ Po ☒ Jo

Nqs pergjigja juaj eshte po, ju lutem siguroni titujt:

Cilat jane temat me te rendesishme qe ju doni me shume informacion ne lidhje me sistemit e furnizimit me uje rajonal ose nderkufitar?

- Klorinimi i ujit
- Reduktimi i humbjeve ne rjet

QUESTIONNAIRE ON CROSS BORDER /REGIONAL WATER RESOURCES MANAGEMENT AND WATER SUPPLY SYSTEMS

Name: Surname: Institution/ Organization: <i>(If you wish to remain anonymous, please do not fill)</i> Signature:	
	DURRES WATER SUPPLY AND SEWERAGE UTILITY

Your Institution/ Organization mission -main scope of the work:

☒ Water supply ☐ Authority ☐ Research Organization ☐ Association
☐ Other (please specify)

In which sector would you locate your activities?

☒ water ☐ agricultural ☐ education/research
☐ international cooperation ☐ financial/ legislative ☐ other, namely :

What spatial scale reflects the best your activities and tasks?

☐ Local ☒ regional ☐ national
☐ international ☐ other, namely :

What are the main water supply issues/ problems?
(Please rank them: 1 the most significant , 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

1. Losses 3. Quantity ☐ Quality 4. Water tariffs
 5. Seasonal fluctuations ☐ Policies & legislation framework ☐ Capacities
 2. Lack of funding 1.1 Infrastructure ☐ Climate change ☐ Weak Cooperation
☐ Other, namely :

What are the most important steps and activities that would improve water supply?

- Improve financial performance
- Reduction of commercial losses
- Managing the water amount ,to rural areas

Do you think that some cross-cutting issues can be solved by:

(Please rank them: 1 the most significant , 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

☐ Policy that would address the majority of issues

1. Separate policies that would address the majority of issues

3. Better cooperation among different sectors

5. Better cooperation among local and national authorities

2. More financial resources

4. Water tariffs

☐ Other, namely :

Please list the 3 most significant actors/ actions for improved water supply:

-Financial resources,investements

-Technical Department,losses

-Commercial Department,customer

What are the actions that your institution/ organization might take to improve water supply and contribute to its sustainability?

- To provide sustainable, secure, sufficient and proper quality water supply to all existing and potential customers.
- To provide sewage collection, treatment and disposal services to all water supply customers of the Company
- To operate the Company based on a customer oriented, financially sound, and efficient manner.
- To make timely investments for improved water supply system efficiency, so that the service area of the Company is fully prepared to respond to the increased water demand needs of the tourists and residents during the summer period.

Do you think that only state activities contribute to improved water supply:

☐ YES ☒ No

If the answer is NO please list other institutional levels of significance:

Are there legislative frameworks (treaties, agreements, MoA, etc.) that are significant for cross-border/ regional water supply systems you are familiar with in your country:

☒ YES ☐ No

If the answer is yes, please provide the title

What are the most important topics that you would like to become more familiar regarding to cross- border /regional water supply systems?

-Water Meter

-Equipment for maintenance of sewerage systems

- Instruments for detection of pipeline leaks

-Etc,

PYETESOR MBI MENAXHIMIN E BURIMEVE UJORE NDERKUFITAR DHE MANAXHIMIN E SITEMIT TE FURNIZIMIT ME UJE TE PIJSHEM

Emer: Mbiemer: Institucioni/ Organizata: <i>(Nqs deshironi te mbeten anonim mos e plotesoni kete rresht)</i> Firma:	ILIR ROPI SH.A UJESJELLES FSHAT ELBASAN
Misioni ose qellimi i Istitucioni/ Organizates ku ju punoni: <input checked="" type="checkbox"/> Furnizim me Uje <input type="checkbox"/> Autoritet <input type="checkbox"/> Institut Kerkimor <input type="checkbox"/> Shoqate <input type="checkbox"/> tjeter (specifikoje)	
Ne cilin sector ushtrohen aktivitetet tuaja? <input checked="" type="checkbox"/> Uje <input type="checkbox"/> agrikulture <input type="checkbox"/> edukim/pune kerkimore <input type="checkbox"/> bashkeveprim nderkombetar <input type="checkbox"/> financiar/ legjislativ <input type="checkbox"/> tjeter (specifikoje),	
Ne cfare niveli hapsinore pasqyrohen me mire aktivitetet dhe detyrat tuaja tuaja? <input checked="" type="checkbox"/> Lokale <input type="checkbox"/> Rajonale <input type="checkbox"/> Kombetare <input type="checkbox"/> Nderkombetare <input type="checkbox"/> tjeter (specifikoje),:	
Cilat jane ceshtjet dhe problematikat kryesore ne lidhje me furnizimin me uje? (Renditini ne shkallen 1-5 ku: 1 me e rendesishmja , 5 me pak e rendesishmja, nqs eshte e mundur caktoni te njejten shkalle per dy problematikat kryesore.) 1 Humbjet 3 Sasia 1 Cilesia 1 Tarifat e ujit <input type="checkbox"/> Luhatjet sezonale 1 Politikat dhe legjislacioni 3 Kapacitete njerezore 1 Mungesa e fondeve 1 Infrastruktura <input type="checkbox"/> Ndryshimet klimaterike 4 Mungesa e bashkepunimit <input type="checkbox"/> tjeter (specifikoje):	
Cilat jane hapat dhe aktivitetet me te rendesishme qe do te permiresonin furnizimin me uje? 1 -Permiresimi i rrjeteve shperndarese. 2 -Rinovimi i pajisjeve dhe makinerive 3 -Matja e ujit ne prodhim dhe shitje	
A mendoni se disa ceshtje ndersektoriale mund te zgjidhen me: (Renditini ne shkallen 1-5 ku: 1 me e rendesishmja , 5 me pak e rendesishmja, nqs eshte e mundur caktoni te njejten shkalle per dy problematikat kryesore.)	

- 1 Politika qe do te trajtonin pjesen me te madhe te problematikave,
- 3 Politika te vecanta qe do te trajtonin pjesen me te madhe te problematikave,
- 3 Bashkepunim me i mire ndermjet sektoreve te ndryshem.
- 1 Bashkepunim me i mire ndermjet autoriteteve lokale dhe kombetare
- 1 Me shume burime financiare
- 1 Tarifat e ujit
- ☐ tjeter (specifikojte),

Permendi 3 aktoret/veprimet me te rendesishme per permiresimin e furnizimit me uje:

- 1-Permiresimi i rrjeteve shperndarese.
- 2-Rinovimi i pajisjeve dhe makinerive
- 3-Matja e ujit ne prodhim dhe shitje

Cilat jane veprimet qe insitucioni/organizata juaj mund te ndermarr per te permiresuar furnizimin me uje dhe te kontribuoj ne qendrueshmerin e tij?

- 1-Dhenia e ujit me cilesi.
- 2-Riparimin brenda 24 oreve i difekteve ne tubacionet kryesore.

A mendini se vetem aktivitetet shteterore kontribuojne ne permiresimin e furnizimit me uje:

✓ ☐ Po ☐ Jo

Nqs pergjigja juaj eshte jo, ju lutem listoni nivele te tjera institucionale te rendesishme:

A ka korniza (marveshje, MoA etj) qe jane te rendesishme per sistemet e furnizimit me uje rajonal ose nderkufitar me te cilat ju jeni te njohur ne vendin tuaj?

☐ Po

✓ ☐ Jo

Nqs pergjigja juaj eshte po, ju lutem siguroni titujt:

Cilat jane temat me te rendesishme qe ju doni me shume informacion ne lidhje me sistemit e furnizimit me uje rajonal ose nderkufitar?

[Print](#) | [Close Window](#)

Subject: Projekti DRINKADRIA: Plotesim pyetesori
From: SHUKALB Informacion <info@shukalb.al>
Date: Thu, May 29, 2014 1:10 pm
To: "SHUKALB Informacion" <info@shukalb.al>
Attach: Pyetesori_Shqip.doc
Pyetesori_Anglisht.doc

Te nderuar anetare,

Ne kuader te nje projekti te saj, Shoqate e Ujesjelles Kanalizimeve e Shqiperise SHUKALB po mbledh informacion qe gjendet ne formularin bashkengjitur me kete email. Ju lutemi potesojeni formularin me shkrim dore dhe dergojeni te skanuar sa me shpejt te mundeni brenda javes ne kete adrese emaili.

Mund te plotesoni versionin ne Shqip ose Anglisht sipas deshires.

Faleminderit per bashkepunimin,

Anisa Aliaj,

Koordinatorë,


Projekti DRINKADRIA

Shoqata Ujësjetllës Kanalizime e Shqipërisë

Rruga "Pjeter Bogdani", Nd. 17 Ap. 25
Njësia Bashkiake Nr. 5, Kodi Postar 1019
Tirane, Shqipëri
Tel: (+355/4) 2245 101
Fax: (+355/4) 2245 101

Mob : (+355) 69 60 12782
E-mail: info@shukalb.al
Web: www.shukalb.org

Informacioni në këtë e-mail është repteishtë konfidencial dhe i destinuar vetem per marrësin. Permbajtja e e-mailit është i mbuluar nga privilegji ligjor, profesional ose privilegje të tjera. Nëse ju nuk jeni marresi i duhur, ju nuk duhet ta shpërndani, të publikoni, kopjoni, printoni ose të ndërmerri ndonjë veprim në lidhje me kete korrespondence. Nëse ju keni marrë këtë e-mail gabimisht, ju lutem na njoftoni dhe fshini të dhënat e marra sa më shpejt që të jetë e mundur.

 Ju lutem konsideroni ambientin perpara se te printoni kete e-mail

PYETESOR MBI MENAXHIMIN E BURIMEVE UJORE NDERKUFITAR DHE MANAXHIMIN E SITEMIT TE FURNIZIMIT ME UJE TE PIJSHEM

<p>Emer:</p> <p>Mbiemer:</p> <p>Institucioni/ Organizata:</p> <p><i>(Nqs deshironi te mbeten anonim mos e plotesoni kete rresht)</i></p> <p>Firma:</p>	<p><i>Alia</i></p> <p><i>Crnolli</i></p> <p><i>Elber Xepic</i></p>
<p>Misioni ose qellimi i Institucioni/ Organizates ku ju punoni:</p> <p> <input checked="" type="checkbox"/> Furnizim me Uje <input type="checkbox"/> Autoritet <input type="checkbox"/> Institut Kerkimor <input type="checkbox"/> Shoqate <input type="checkbox"/> tjeter (specifikoje) </p>	
<p>Ne cilin sektor ushtrohen aktivitetet tuaja?</p> <p> <input checked="" type="checkbox"/> uje <input type="checkbox"/> agrikulture <input type="checkbox"/> edukim/pune kerkimore <input type="checkbox"/> bashkeveprim nderkombetar <input type="checkbox"/> financiar/ legjislativ <input type="checkbox"/> tjeter (specifikoje), </p>	
<p>Ne cfare niveli hapsinore pasqyrohen me mire aktivitetet dhe detyrat tuaja tuaja?</p> <p> <input checked="" type="checkbox"/> Lokale <input type="checkbox"/> Rajonale <input type="checkbox"/> Kombetare <input type="checkbox"/> Nderkombetare <input type="checkbox"/> tjeter (specifikoje),: </p>	
<p>Cilat jane ceshtjet dhe problematikat kryesore ne lidhje me furnizimin me uje? (Renditini ne shkallen 1-5 ku: 1 me e rendesishmja , 5 me pak e rendesishmja, nqs eshte e mundur caktoni te njejten shkalle per dy problematikat kryesore.)</p> <p> <input checked="" type="checkbox"/> Humbjet <input type="checkbox"/> Sasia <input type="checkbox"/> Cilesia <input checked="" type="checkbox"/> Tarifat e ujit <input checked="" type="checkbox"/> Luhatjet sezonale <input type="checkbox"/> Politikat dhe legjislacioni <input type="checkbox"/> Kapacitete njerezore <input checked="" type="checkbox"/> Mungesa e fondeve <input checked="" type="checkbox"/> Infrastruktura <input type="checkbox"/> Ndryshimet klimaterike <input type="checkbox"/> Mungesa e bashkepunimit <input type="checkbox"/> tjeter (specifikoje): </p>	
<p>Cilat jane hapat dhe aktivitetet me te rendesishme qe do te permiresonin furnizimin me uje?</p> <p><i>Ristrukturimi i stacioneve te prodhimit te ujit, rekonstrukcion i sajtit superaudore, instalimi i angte"ore individuale te konsumatore"t.</i></p>	

A mendoni se disa ceshtje ndersektorale mund te zgjidhen me:

(Renditini ne shkallen 1-5 ku: 1 me e rendesishmja , 5 me pak e rendesishmja, nqs eshte e mundur caktoni te njejten shkalle per dy problematikat kryesore.)

- ☐ Politika qe do te trajtonin pjesen me te madhe te problematikave,
- ☒ Politika te vecanta qe do te trajtonin pjesen me te madhe te problematikave,
- ☒ Bashkepunim me i mire ndermjet sektoreve te ndryshem.
- ☒ Bashkepunim me i mire ndermjet autoriteteve lokale dhe kombetare
- ☒ Me shume burime financiare
- ☒ Tarifat e ujit
- ☐ tjeter (specifikojte),

Permendi 3 aktoret/veprimet me te rendesishme per permiresimin e furnizimit me uje:

- Instalimi i matësve individualë
- Rikonstruksion i rrjetit supërnacional
- Sensibilizimi i konsumatorëve për përdorim të ujit të pijshëm.

Cilat jane veprimet qe insitucioni/organizata juaj mund te ndermarr per te permiresuar furnizimin me uje dhe te kontribuoj ne qendrueshmerin e tij?

Përmirësimi i rrjetit ekzistues, eleminimi i lloqjeve të jashtë ligjëshme, përcjella me matës.

A mendini se vetem aktivitetet shteterore kontribuojne ne permiresimin e furnizimit me uje:

☒ Po ☐ Jo

Nqs pergjigja juaj eshte jo, ju lutem listoni nivele te tjera institucionale te rendesishme:

A ka korniza (marveshje, MoA etj) qe jane te rendesishme per sistemet e furnizimit me uje rajonal ose nderkufitar me te cilat ju jeni te njohur ne vendin tuaj?

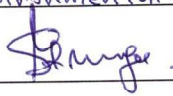
☐ Po ☒ Jo

Nqs pergjigja juaj eshte po, ju lutem siguroni titujt:

Cilat jane temat me te rendesishme qe ju doni me shume informacion ne lidhje me sistemit e furnizimit me uje rajonal ose nderkufitar?

- Sistemi i prodhimit
- Efienca e energji'së

QUESTIONNAIRE ON CROSS BORDER /REGIONAL WATER RESOURCES MANAGEMENT AND WATER SUPPLY SYSTEMS

Name: Surname: Institution/ Organization: <i>(If you wish to remain anonymous, please do not fill)</i> Signature:	<div style="border-bottom: 1px solid black; padding-bottom: 2px;">Meivis</div> <div style="border-bottom: 1px solid black; padding-bottom: 2px;">Struga</div> <div style="border-bottom: 1px solid black; padding-bottom: 2px;">Environmental and Territorial Management Institute</div> <div style="border-bottom: 1px solid black; padding-bottom: 2px;">  </div>
---	--

Your Institution/ Organization mission -main scope of the work:

☐ Water supply
 ☐ Authority
 ☐ Research Organization
☒ Association
☐ Other (please specify)

In which sector would you locate your activities?

☒ water
 ☐ agricultural
☒ education/research
☒ international cooperation
☐ financial/ legislative
☒ other, namely : *Territory Planning Energy Efficiency*

What spatial scale reflects the best your activities and tasks?

☐ Local
☐ regional
☒ national
☐ international
☐ other, namely :

What are the main water supply issues/ problems?
 (Please rank them: 1 the most significant , 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

☒ Losses
☒ Quantity
☒ Quality
☒ Water tariffs
☒ Seasonal fluctuations
☒ Policies & legislation framework
☒ Capacities
☒ Lack of funding
☒ Infrastructure
☒ Climate change
☒ Weak Cooperation
☐ Other, namely :

What are the most important steps and activities that would improve water supply?

→ losses reduction
 - Water Management / collection of tariffs
 - Maintenance - technical assistance
 - Financial assistance.
 - Monitoring → Quality

Do you think that some cross-cutting issues can be solved by:

(Please rank them: 1 the most significant , 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

- ☒ 1 Policy that would address the majority of issues
- ☒ 2 Separate policies that would address the majority of issues
- ☒ 3 Better cooperation among different sectors
- ☒ 4 Better cooperation among local and national authorities
- ☒ 5 More financial resources
- ☒ 6 Water tariffs
- ☐ Other, namely :

Please list the 3 most significant actors/ actions for improved water supply:

- Proper Infrastructure - ^{Water facilities} / - Financial resources
- Water treatment / - Cooperation
- Water Management / tariffs

What are the actions that your institution/ organization might take to improve water supply and contribute to its sustainability?

- Awareness Raising Programs
- Capacity Building Activities for the employees

Do you think that only state activities contribute to improved water supply:

☐ YES ☒ No

If the answer is NO please list other institutional levels of significance:

Local authorities / Utilities

Are there legislative frameworks (treaties, agreements, MoA, etc.) that are significant for cross-border/ regional water supply systems you are familiar with in your country:

☒ YES ☐ No

If the answer is yes, please provide the title

- Water Framework Directive (WFD)
- UNECE Convention on Transboundary Waters
- Barcelona Convention
- Environmental Impact Assessment for Transboundary W. (ESPRI/C)
- Water Convention

What are the most important topics that you would like to become more familiar regarding to cross- border /regional water supply systems?

- Transboundary agreements for shared water courses
- River Basin Management (transboundary effect)

QUESTIONNAIRE ON CROSS BORDER /REGIONAL WATER RESOURCES MANAGEMENT AND WATER SUPPLY SYSTEMS

Name:	Etleva
Surname:	Demiri
Institution/ Organization: (If you wish to remain anonymous, please do not fill)	Water Regulatory Authority
Signature:	<i>Etleva</i>

Your Institution/ Organization mission -main scope of the work:

- ☐ Water supply ☒ Authority ☐ Research Organization ☐ Association
☐ Other (please specify)

In which sector would you locate your activities?

- ☒ water ☐ agricultural ☐ education/research
☐ international cooperation ☐ financial/ legislative ☐ other, namely :

What spatial scale reflects the best your activities and tasks?

- ☐ Local ☐ regional ☒ national
☐ international ☐ other, namely :

What are the main water supply issues/ problems?
(Please rank them: 1 the most significant , 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

- ☒ 1 Losses ☒ 5 Quantity ☒ 5 Quality ☒ 2 Water tariffs
☒ 5 Seasonal fluctuations ☒ 2 Policies & legislation framework ☒ 7 Capacities
☒ 2 Lack of funding ☒ 3 Infrastructure ☒ 4 Climate change ☒ 4 Weak Cooperation
☒ 5 Other, namely :

What are the most important steps and activities that would improve water supply?

- work on water supply and sewerage services
- Approval and implementation of the MasterPlan in WSS sector.
- Continue the regionalization process of WSS services through implementation of the sector strategy.
- Reduction of the non-revenue water level.
- Increase the metering level in water production and consumption.
- Increase the collection efficiency.
- Better management for the reduction of services cost from the water companies.

Do you think that some cross-cutting issues can be solved by:

(Please rank them: 1 the most significant , 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

- ☒ Policy that would address the majority of issues
- ☒ Separate policies that would address the majority of issues
- ☒ Better cooperation among different sectors
- ☒ Better cooperation among local and national authorities
- ☒ More financial resources
- ☒ Water tariffs
- ☐ Other, namely :

Please list the 3 most significant actors/ actions for improved water supply:

- Better management
- Proper allocation of investments

What are the actions that your institution/ organization might take to improve water supply and contribute to its sustainability?

- Regulate services through tariff policies.
- Help WS companies achieving financial sustainability through setting achievable performance targets.

Do you think that only state activities contribute to improved water supply:

☐ YES ☒ No

If the answer is NO please list other institutional levels of significance:

Foreign Donors
Association
NGO

Are there legislative frameworks (treaties, agreements, MoA, etc.) that are significant for cross-border/ regional water supply systems you are familiar with in your country:

☐ YES ☒ No

If the answer is yes, please provide the title

What are the most important topics that you would like to become more familiar regarding to cross- border /regional water supply systems?

- Licensing & Tariff regime
- Performance monitoring
- Consumer protection

QUESTIONNAIRE ON CROSS BORDER /REGIONAL WATER RESOURCES MANAGEMENT AND WATER SUPPLY SYSTEMS

Name: Surname: Institution/ Organization: <i>(If you wish to remain anonymous, please do not fill)</i> Signature:	Jovan
	Gjika
	General Directorate of Water Supply and Sewerage Ministry of Transport and Infrastructure Albania
Your Institution/ Organization mission -main scope of the work:	
<input type="checkbox"/> Water supply <input checked="" type="checkbox"/> Authority <input type="checkbox"/> Research Organization <input type="checkbox"/> Association <input type="checkbox"/> Other (please specify)	
In which sector would you locate your activities?	
<input checked="" type="checkbox"/> water <input type="checkbox"/> agricultural <input type="checkbox"/> education/research <input type="checkbox"/> international cooperation <input type="checkbox"/> financial/ legislative <input type="checkbox"/> other, namely :	
What spatial scale reflects the best your activities and tasks?	
<input type="checkbox"/> Local <input type="checkbox"/> regional <input checked="" type="checkbox"/> national <input type="checkbox"/> international <input type="checkbox"/> other, namely :	
What are the main water supply issues/ problems? (Please rank them: 1 the most significant , 5 the least significant, it is possible assign the same rank to maximum two issues/problems)	
1 Losses 4 Quantity 4 Quality 3 Water tariffs 4 Seasonal fluctuations 3 Policies & legislation framework 2 Capacities 2 Lack of funding 1 Infrastructure 5 Climate change 5 Weak Cooperation <input type="checkbox"/> Other, namely :	
What are the most important steps and activities that would improve water supply? Legislation reform Increase of management in order to reduce the administrative loses and improve services Improvement of infrastructure through increase of investments	

Do you think that some cross-cutting issues can be solved by:

(Please rank them: 1 the most significant , 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

- 4 Policy that would address the majority of issues
- 1 Separate policies that would address the majority of issues
- 3 Better cooperation among different sectors
- 3 Better cooperation among local and national authorities
- 2 More financial resources
- 5 Water tariffs
- ☐ Other, namely :

Please list the 3 most significant actors/ actions for improved water supply:

Legislation reform

Increase of management in order to reduce the administrative loses and improve services

Improvement of infrastructure through increase of investments

What are the actions that your institution/ organization might take to improve water supply and contribute to its sustainability?

Leading the reform on the legislation

Increase financial support for improving the infrastructure

Do you think that only state activities contribute to improved water supply:

☒ YES ☐ No

If the answer is NO please list other institutional levels of significance:

Are there legislative frameworks (treaties, agreements, MoA, etc.) that are significant for cross-border/ regional water supply systems you are familiar with in your country:

☐ YES ☒ No

If the answer is yes, please provide the title

What are the most important topics that you would like to become more familiar regarding to cross- border /regional water supply systems?

Management of the network

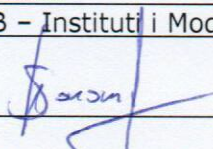
Organization of the service provider and decision making within the provider

Tariff setting

PYETESOR MBI MENAXHIMIN E BURIMEVE UJORE NDERKUFITAR DHE MANAXHIMIN E SITEMIT TE FURNIZIMIT ME UJE TE PIJSHEM

Emer: Mbiemer: Institucioni/ Organizata: <i>(Nqs deshironi te mbeten anonim mos e plotesoni kete rresht)</i> Firma:	<div style="border-bottom: 1px solid black; padding-bottom: 2px; text-align: center;">T A J A R</div> <div style="border-bottom: 1px solid black; padding-bottom: 2px; text-align: center;">B L C I</div> <div style="border-bottom: 1px solid black; padding-bottom: 2px; text-align: center;">SHA "UJESJELLESIA GRAMSH"</div>
Misioni ose qellimi i Institucioni/ Organizates ku ju punoni: <input checked="" type="checkbox"/> Furnizim me Uje <input type="checkbox"/> Autoritet <input type="checkbox"/> Institut Kerkimor <input type="checkbox"/> Shoqate <input type="checkbox"/> tjeter (specifikoje)	
Ne cilin sector ushtrohen aktivitetet tuaja? <input checked="" type="checkbox"/> uje <input type="checkbox"/> agrikulture <input type="checkbox"/> edukim/pune kerkimore <input type="checkbox"/> bashkeveprim nderkombetar <input type="checkbox"/> financiar/ legjislativ <input type="checkbox"/> tjeter (specifikoje),	
Ne cfare niveli hapsinore pasqyrohen me mire aktivitetet dhe detyrat tuaja tuaja? <input checked="" type="checkbox"/> Lokale <input type="checkbox"/> Rajonale <input type="checkbox"/> Kombetare <input type="checkbox"/> Nderkombetare <input type="checkbox"/> tjeter (specifikoje),:	
Cilat jane ceshtjet dhe problematikat kryesore ne lidhje me furnizimin me uje? (Renditini ne shkallen 1-5 ku: 1 me e rendesishmja , 5 me pak e rendesishmja, nqs eshte e mundur caktoni te njejten shkalle per dy problematikat kryesore.) <input checked="" type="checkbox"/> Humbjet <input type="checkbox"/> Sasia <input type="checkbox"/> Cilesia <input checked="" type="checkbox"/> Tarifat e ujit <input type="checkbox"/> Luhatjet sezonale <input checked="" type="checkbox"/> Politikat dhe legjislacioni <input type="checkbox"/> Kapacitete njerezore <input checked="" type="checkbox"/> Mungesa e fondeve <input checked="" type="checkbox"/> Infrastruktura <input type="checkbox"/> Ndryshimet klimaterike <input type="checkbox"/> Mungesa e bashkepunimit <input type="checkbox"/> tjeter (specifikoje):	

PYETESOR MBI MENAXHIMIN E BURIMEVE UJORE NDERKUFITAR DHE MANAXHIMIN E SITEMIT TE FURNIZIMIT ME UJE TE PIJSHEM

Emer: Mbiemer: Institucioni/ Organizata: <i>(Nqs deshironi te mbeten anonim mos e plotesoni kete rresht)</i> Firma:	Sagest Ekonomi IMB - Instituti i Modelimeve në Biznes <div style="text-align: center; margin-top: 20px;">  </div>
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Misioni ose qellimi i Institucioni/ Organizates ku ju punoni:

☐ Furnizim me Uje
 ☐ Autoritet
 ☐ Institut Kerkimor
 ☐ Shoqate
☒ tjeter (specifikoje) Institut qe prodhon softuerë per menaxhimin e Ndermarrjeve te Ujesjellesv

Ne cilin sektor ushtrohen aktivitetet tuaja?

☐ uje
 ☐ agrikulture
 ☒ edukim/pune kerkimore
☐ bashkeveprim nderkombetar
☒ financiar/ legjislativ
☐ tjeter (specifikoje),

Ne cfare niveli hapsinore pasqyrohen me mire aktivitetet dhe detyrat tuaja tuaja?

☐ Lokale
 ☒ Rajonale
☐ Kombetare
☐ Nderkombetare
☐ tjeter (specifikoje),:

Cilat jane ceshtjet dhe problematikat kryesore ne lidhje me furnizimin me uje?
(Renditini ne shkallen 1-5 ku: 1 me e rendesishmja , 5 me pak e rendesishmja, nqs eshte e mundur caktoni te njejten shkalle per dy problematikat kryesore.)

☒ Humbjet
 ☐ Sasia
 ☐ Cilësia
 ☐ Tarifat e ujit
☐ Luhatjet sezonale
☐ Politikat dhe legjislacioni
☒ Kapacitete njerëzore
☐ Mungesa e fondeve
☒ Infrastruktura
☐ Ndryshimet klimaterike
☐ Mungesa e bashkepunimit
☒ tjeter (specifikoje): Informatizimi i menaxhimit të plotë

Cilat jane hapat dhe aktivitetet me te rendesishme qe do te permiresonin furnizimin me uje?

- Rritja e eficeses se Ndërmarrjeve te Ujësjellës Kanalizimeve nëpërmjet informatizimit të gjithë hallkave tekniko administrative dhe trajnimit të personelit.

A mendoni se disa ceshtje ndersektoriale mund te zgjidhen me:

(Renditini ne shkallen 1-5 ku: 1 me e rendesishmja , 5 me pak e rendesishmja, nqs eshte e mundur caktoni te njejten shkalle per dy problematikat kryesore.)

- ☒ Politika qe do te trajtonin pjesen me te madhe te problematikave,
- ☒ Politika te vecanta qe do te trajtonin pjesen me te madhe te problematikave,
- ☐ Bashkepunim me i mire ndermjet sektoreve te ndryshem.
- ☒ Bashkepunim me i mire ndermjet autoriteteve lokale dhe kombetare
- ☐ Me shume burime financiare
- ☐ Tarifat e ujit
- ☒ tjeter (specifikoje), Politika të informatizimin dhe monitorimit *online*

Përmendni 3 aktoret/veprimet me te rendesishme per permiresimin e furnizimit me uje:

- Informatizimi sa më i plotë i tyre: që nga leximi i ujëmatësve, gjenerimi i faturave, detyrimeve, treguesve ekonomik financiar, QK, automatizimi i amortizimit, monitorimi me GIS, e deri tek transparenca online e pagesave.
- Trajnimi për rritjen e kapaciteteve njerëzore
- Përmirësimi i kapaciteteve teknike dhe infrastrukturës

Cilat jane veprimet qe insitucioni/organizata juaj mund te ndermarr per te permiresuar furnizimin me uje dhe te kontribuoj ne qendrueshmerin e tij?

- Pajisja e Ndërmarrjeve te Ujësjellës Kanalizimeve me software për administrimin e ndërmarrjes, finance, faturimin, marrdheniet me konsumatorët dhe rritjen e eficences se pergjithshme.
- Trajnimi i personelit te ndërmarrjeve te Ujësjellës Kanalizimeve për menaxhimin me te mire te aseteve, faturimit, matësve, prodhimit, humbjeve ne rrjet etj.

A mendini se vetem aktivitetet shteterore kontribuojne ne permiresimin e furnizimit me uje:

☐ Po ☒ Jo

Nqs pergjigja juaj eshte jo, ju lutem listoni nivele te tjera institucionale te rendesishme:

- Aktivitete të shoqatave të NUK, e ndonjë tjetër.

A ka korniza (marveshje, MoA etj) qe jane te rendesishme per sistemet e furnizimit me uje rajonal ose nderkufitar me te cilat ju jeni te njohur ne vendin tuaj?

☐ Po ☐ Jo

Nqs pergjigja juaj eshte po, ju lutem siguroni titujt:

Cilat jane temat me te rendesishme qe ju doni me shume informacion ne lidhje me sistemit e furnizimit me uje rajonal ose nderkufitar?

- Jemi njohës të menaxhimit të ujësjellësve; kemi bërë informatizim e menaxhimit të sistemeve të Billingut, të Financave, CRM, GIS, etj.

PYETESOR MBI MENAXHIMIN E BURIMEVE UJORE NDERKUFITAR DHE MANAXHIMIN E SITEMIT TE FURNIZIMIT ME UJE TE PIJSHEM

Emer: Mbiemer: Institucioni/ Organizata: <i>(Nqs deshironi te mbeten anonim mos e plotesoni kete rresht)</i> Firma:	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>NDRI CIM</td></tr> <tr><td>PROJ</td></tr> <tr><td>Ujesjelles - Kanalizime Kavaje sh.a</td></tr> <tr><td> </td></tr> </table>	NDRI CIM	PROJ	Ujesjelles - Kanalizime Kavaje sh.a	
NDRI CIM					
PROJ					
Ujesjelles - Kanalizime Kavaje sh.a					
Misioni ose qellimi i Institucioni/ Organizates ku ju punoni: <input checked="" type="checkbox"/> Furnizim me Uje <input type="checkbox"/> Autoritet <input type="checkbox"/> Institut Kerkimor <input type="checkbox"/> Shoqate <input type="checkbox"/> tjeter (specifikoje)					
Ne cilin sector ushtrohen aktivitetet tuaja? <input checked="" type="checkbox"/> uje <input type="checkbox"/> agrikulture <input type="checkbox"/> edukim/pune kerkimore <input type="checkbox"/> bashkeveprim nderkombetar <input type="checkbox"/> financiar/ legjislativ <input type="checkbox"/> tjeter (specifikoje),					
Ne cfare niveli hapsinore pasqyrohen me mire aktivitetet dhe detyrat tuaja tuaja? <input checked="" type="checkbox"/> Lokale <input type="checkbox"/> Rajonale <input type="checkbox"/> Kombetare <input type="checkbox"/> Nderkombetare <input type="checkbox"/> tjeter (specifikoje),:					
Cilat jane ceshtjet dhe problematikat kryesore ne lidhje me furnizimin me uje? (Renditini ne shkallen 1-5 ku: 1 me e rendesishmja , 5 me pak e rendesishmja, nqs eshte e mundur caktoni te njeften shkalle per dy problematikat kryesore.) <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">4 Humbjet</div> <div style="width: 50%;">1 Sasia</div> <div style="width: 50%;"> <input type="checkbox"/> Cilesia </div> <div style="width: 50%;">5 Tarifat e ujit</div> </div> <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Luhatjet sezonale </div> <div style="width: 50%;">2 Politikat dhe legjislacioni</div> <div style="width: 50%;"> <input type="checkbox"/> Kapacitete njerezore </div> </div> <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">3 Mungesa e fondeve</div> <div style="width: 50%;"> <input type="checkbox"/> Infrastruktura </div> <div style="width: 50%;"> <input type="checkbox"/> Ndryshimet klimaterike </div> </div> <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Mungesa e bashkepunimit </div> <div style="width: 50%;"> <input type="checkbox"/> tjeter (specifikoje): </div> </div>					
Cilat jane hapat dhe aktivitetet me te rendesishme qe do te permiresonin furnizimin me uje? <ol style="list-style-type: none"> 1. informimi i popullates per mos shperdorim te ujit 2. Zevendesimi i tubacioneve te vjeter me te rinj. 					

A mendoni se disa ceshtje ndersektoriale mund te zgjidhen me:

(Renditini ne shkallen 1-5 ku: 1 me e rendesishmja , 5 me pak e rendesishmja, nqs eshte e mundur caktoni te njejten shkalle per dy problematikat kryesore.)

- ☐ Politika qe do te trajtonin pjesen me te madhe te problematikave,
- ☐ Politika te vecanta qe do te trajtonin pjesen me te madhe te problematikave, **3**
- ☐ Bashkepunim me i mire ndermjet sektoreve te ndryshem. **2**
- ☐ Bashkepunim me i mire ndermjet autoriteteve lokale dhe kombetare **1**
- ☐ Me shume burime financiare **4**
- ☐ Tarifat e ujit **5**
- ☐ tjeter (specifikoje),

Permendi 3 aktoret/veprimet me te rendesishme per permiresimin e furnizimit me uje:

- 1. vendosje matesi uji familjare dhe ente**
- 2. ulja e humbjeve**
- 3. organizimi i punes**

Cilat jane veprimet qe insitucioni/organizata juaj mund te ndermarr per te permiresuar furnizimin me uje dhe te kontribuoj ne qendrueshmerin e tij?

- 1. Eliminimi i difekteve.**

A mendini se vetem aktivitetet shteterore kontribuojne ne permiresimin e furnizimit me uje:

☒ Po ☐ Jo

Nqs pergjigja juaj eshte jo, ju lutem listoni nivele te tjera institucionale te rendesishme:

A ka korniza (marveshje, MoA etj) qe jane te rendesishme per sistemet e furnizimit me uje rajonal ose nderkufitar me te cilat ju jeni te njohur ne vendin tuaj?

☒ Po ☐ Jo

Nqs pergjigja juaj eshte po, ju lutem siguroni titujt:

Cilat jane temat me te rendesishme qe ju doni me shume informacion ne lidhje me sistemit e furnizimit me uje rajonal ose nderkufitar?

- 1. Bashkepunim sa me te mire me lidhje me sistemin rajonal te furnizimit me uje.**

PYETESOR MBI MENAXHIMIN E BURIMEVE UJORE NDERKUFITAR DHE MANAXHIMIN E SITEMIT TE FURNIZIMIT ME UJE TE PIJSHEM

Emer: Mbiemer: Institucioni/ Organizata: <i>(Nqs deshironi te mbeten anonim mos e plotesoni kete rresht)</i> Firma:	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="padding: 2px;">Arben</td></tr> <tr><td style="padding: 2px;">Jarazi</td></tr> <tr><td style="padding: 2px;">Ujesjelles Kanalizime Korçe SH.A</td></tr> </table>	Arben	Jarazi	Ujesjelles Kanalizime Korçe SH.A													
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Misioni ose qellimi i Institucioni/ Organizates ku ju punoni:																	
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Ne cilin sector ushtrohen aktivitetet tuaja?																	
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Cilat jane ceshtjet dhe problematikat kryesore ne lidhje me furnizimin me uje? (Renditini ne shkallen 1-5 ku: 1 me e rendesishmja , 5 me pak e rendesishmja, nqs eshte e mundur caktoni te njejten shkalles per dy problematikat kryesore.)																	
<table style="width: 100%;"> <tr> <td><input type="checkbox"/> 2 Humbjet</td> <td><input type="checkbox"/> 1 Sasia</td> <td><input type="checkbox"/> 2 Cilesia</td> <td><input type="checkbox"/> 2 Tarifat e ujit</td> </tr> <tr> <td><input type="checkbox"/> 3 Lohatjet sezonale</td> <td><input type="checkbox"/> 3 Politikat dhe legjislativ</td> <td><input type="checkbox"/> 2 Kapacitete njerezore</td> <td></td> </tr> <tr> <td><input type="checkbox"/> 2 Mungesa e fondeve</td> <td><input type="checkbox"/> 2 Infrastruktura</td> <td><input type="checkbox"/> 3 Ndryshimet klimaterike</td> <td></td> </tr> <tr> <td colspan="4"><input type="checkbox"/> 3 Mungesa e bashkepunimit <input type="checkbox"/> tjeter (specifikoje):</td> </tr> </table>		<input type="checkbox"/> 2 Humbjet	<input type="checkbox"/> 1 Sasia	<input type="checkbox"/> 2 Cilesia	<input type="checkbox"/> 2 Tarifat e ujit	<input type="checkbox"/> 3 Lohatjet sezonale	<input type="checkbox"/> 3 Politikat dhe legjislativ	<input type="checkbox"/> 2 Kapacitete njerezore		<input type="checkbox"/> 2 Mungesa e fondeve	<input type="checkbox"/> 2 Infrastruktura	<input type="checkbox"/> 3 Ndryshimet klimaterike		<input type="checkbox"/> 3 Mungesa e bashkepunimit <input type="checkbox"/> tjeter (specifikoje):			
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<input type="checkbox"/> 3 Lohatjet sezonale	<input type="checkbox"/> 3 Politikat dhe legjislativ	<input type="checkbox"/> 2 Kapacitete njerezore															
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<input type="checkbox"/> 3 Mungesa e bashkepunimit <input type="checkbox"/> tjeter (specifikoje):																	
Cilat jane hapat dhe aktivitetet me te rendesishme qe do te permiresonin furnizimin me uje?																	
1. Ujla e perqindjeve te humbjeve te ujit 2.																	

A mendoni se disa ceshtje ndersektorale mund te zgjidhen me:

(Renditini ne shkallen 1-5 ku: 1 me e rendesishmja , 5 me pak e rendesishmja, nqs eshte e mundur caktoni te njejten shkalle per dy problematikat kryesore.)

- ☐ 3 Politika qe do te trajtonin pjesen me te madhe te problematikave,
- ☐ 2 Politika te vecanta qe do te trajtonin pjesen me te madhe te problematikave,
- ☐ 1 Bashkepunim me i mire ndermjet sektoreve te ndryshem.
- ☐ 1 Bashkepunim me i mire ndermjet autoriteteve lokale dhe kombetare
- ☐ 1 Me shume burime financiare
- ☐ 2 Tarifat e ujit
- ☐ tjeter (specifikoje),

Permendi 3 aktoret/veprimet me te rendesishme per permiresimin e furnizimit me uje:

1. Sistem inteligjent matjeje
2. Identifikim dhe kontroll i humbejve (teknike + administrative)
3. Mirembajtje e vazhdueshme ne te gjitha hallkat e sistemit te shperndarjes

Cilat jane veprimet qe insitucioni/organizata juaj mund te ndermarr per te permiresuar furnizimin me uje dhe te kontribuoj ne qendrueshmerin e tij?

1. Instalimi i sistemit inteligjent te matjes
2. Infrastruktura te sigurt per shperndarjen e sherbimit
3. Mbajtja ne nivel sa me te ulet te perqindjes se humbjeve te ujit te lejueshme

A mendini se vetem aktivitetet shteterore kontribuojne ne permiresimin e furnizimit me uje:

☐ Po ☐ Jo

Nqs pergjigja juaj eshte jo, ju lutem listoni nivele te tjera institucionale te rendesishme:

1. Shoqata e Ujesjelles Kanalizime te Shqiperise
2. OJF
3. Ndermarjet UK ne vetvete

A ka korniza (marveshje, MoA etj) qe jane te rendesishme per sistemet e furnizimit me uje rajonal ose nderkufitar me te cilat ju jeni te njohur ne vendin tuaj?


☐ Po ☐ Jo

Nqs pergjigja juaj eshte po, ju lutem siguroni titujt:

Cilat jane temat me te rendesishme qe ju doni me shume informacion ne lidhje me sistemit e furnizimit me uje rajonal ose nderkufitar?

1. Menaxhimi i integruar i burimeve ujore
2. Rajonalizimi i UK

PYETESOR MBI MENAXHIMIN E BURIMEVE UJORE NDERKUFITAR DHE MANAXHIMIN E SITEMIT TE FURNIZIMIT ME UJE TE PIJSHEM

Emer: Mbiemer: Institucioni/ Organizata: (Nqs deshironi te mbeteni anonim mos e plotesoni kete rresht) Firma:	Agron Gega Sh. A. Llyesjelles Kanalizime Lirachel 
Misioni ose qellimi i Institucioni/ Organizates ku ju punoni: <input checked="" type="checkbox"/> Furnizim me Uje <input type="checkbox"/> Autoritet <input type="checkbox"/> Institut Kerkimor <input type="checkbox"/> Shoqate <input type="checkbox"/> tjeter (specifikoje)	
Ne cilin sector ushtrohen aktivitetet tuaja? <input checked="" type="checkbox"/> uje <input type="checkbox"/> agrikulture <input type="checkbox"/> edukim/pune kerkimore <input type="checkbox"/> bashkeveprim nderkombetar <input type="checkbox"/> financiar/ legjislativ <input type="checkbox"/> tjeter (specifikoje),	
Ne cfare niveli hapsinore pasqyrohen me mire aktivitetet dhe detyrat tuaja tuaja? <input type="checkbox"/> Lokale <input checked="" type="checkbox"/> Rajonale <input type="checkbox"/> Kombetare <input type="checkbox"/> Nderkombetare <input type="checkbox"/> tjeter (specifikoje),:	
Cilat jane ceshtjet dhe problematikat kryesore ne lidhje me furnizimin me uje? (Renditini ne shkallen 1-5 ku: 1 me e rendesishmja , 5 me pak e rendesishmja, nqs eshte e mundur caktoni te njejten shkalles per dy problematikat kryesore.) <input checked="" type="checkbox"/> Humbjet <input type="checkbox"/> Sasia <input type="checkbox"/> Cilesia <input checked="" type="checkbox"/> Tarifat e ujit <input checked="" type="checkbox"/> Luhatjet sezonale <input type="checkbox"/> Politikat dhe legjislacioni <input type="checkbox"/> Kapacitete njerezore <input checked="" type="checkbox"/> Mungesa e fondeve <input checked="" type="checkbox"/> Infrastruktura <input type="checkbox"/> Ndryshimet klimaterike <input type="checkbox"/> Mungesa e bashkepunimit <input type="checkbox"/> tjeter (specifikoje):	
Cilat jane hapat dhe aktivitetet me te rendesishme qe do te permiresonin furnizimin me uje? Reduktimi i humbjeve, ndertimi i njetit, rritja e mbulimit me shpallim, rritja e nivelit te arketimit	

A mendoni se disa ceshtje ndersektoriale mund te zgjidhen me:

(Renditini ne shkallen 1-5 ku: 1 me e rendesishmja , 5 me pak e rendesishmja, nqs eshte e mundur caktoni te njejten shkalle per dy problematikat kryesore.)

- ☐ Politika qe do te trajtonin pjesen me te madhe te problematikave,
- ☒ Politika te vecanta qe do te trajtonin pjesen me te madhe te problematikave,
- ☒ Bashkepunim me i mire ndermjet sektoreve te ndryshem.
- ☒ Bashkepunim me i mire ndermjet autoriteteve lokale dhe kombetare
- ☒ Me shume burime financiare
- ☒ Tarifat e ujit
- ☐ tjeter (specifikoje),

Permendi 3 aktoret/veprimet me te rendesishme per permiresimin e furnizimit me uje:

1. Bashkepunim institucional.
2. Pushteti vendor /lokal.
3. Pushteti qendror.

P. V
P. Q
K. MB

Cilat jane veprimet qe insitucioni/organizata juaj mund te ndermarr per te permiresuar furnizimin me uje dhe te kontribuoj ne qendrueshmerin e tij?

- Hiac mbajtje e ri jetit eksistues,
- Nolevini, lidhjeve ilegale.

A mendini se vetem aktivitetet shteterore kontribuojne ne permiresimin e furnizimit me uje:

☐ Po ☒ Jo

Nqs pergjigja juaj eshte jo, ju lutem listoni nivele te tjera institucionale te rendesishme:

Aktivitetet private, bizneset lokale.

A ka korniza (marveshje, MoA etj) qe jane te rendesishme per sistemet e furnizimit me uje rajonal ose nderkufitar me te cilat ju jeni te njohur ne vendin tuaj?

☐ Po ☒ Jo

Nqs pergjigja juaj eshte po, ju lutem siguroni titujt:

Cilat jane temat me te rendesishme qe ju doni me shume informacion ne lidhje me sistemit e furnizimit me uje rajonal ose nderkufitar?

- Menexhimi rajonal i furnizimit me uje te pijshem
- Menexhimi rajonal i kergimit dhe traktimit te ujeve te ndotura
- Politikot, procedurat menexhenciale, teknike rajonale.

QUESTIONNAIRE ON CROSS BORDER /REGIONAL WATER RESOURCES MANAGEMENT AND WATER SUPPLY SYSTEMS

Name:	Viola Saliaga
Surname:	
Institution/ Organization: (If you wish to remain anonymous, please do not fill)	Ministry of Environment
Signature:	<i>[Signature]</i>

Your Institution/ Organization mission -main scope of the work:

☐ Water supply ☒ Authority ☐ Research Organization ☐ Association
☐ Other (please specify)

In which sector would you locate your activities?

☐ water ☐ agricultural ☐ education/research
☐ international cooperation ☐ financial/ legislative ☒ other, namely: *Environment*

What spatial scale reflects the best your activities and tasks?

☐ Local ☐ regional ☒ national
☐ international ☐ other, namely :

What are the main water supply issues/ problems?
(Please rank them: 1 the most significant , 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

☒ Losses ☐ Quantity ☒ Quality ☒ Water tariffs
☒ Seasonal fluctuations ☐ Policies & legislation framework ☒ Capacities
☐ Lack of funding ☒ Infrastructure ☐ Climate change ☐ Weak Cooperation
☐ Other, namely :

What are the most important steps and activities that would improve water supply?

*Improve the infrastructure on water supply, specifically at rural areas. Investments on water treatment and disinfection, excluding the use of chlorine.
Improve the water metering process, installing new meters (electronic).*

Do you think that some cross-cutting issues can be solved by:

(Please rank them: 1 the most significant, 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

- ☒ 5 Policy that would address the majority of issues
- ☐ Separate policies that would address the majority of issues
- ☒ 3 Better cooperation among different sectors
- ☒ 2 Better cooperation among local and national authorities
- ☒ 7 More financial resources
- ☐ 4 Water tariffs
- ☐ Other, namely :

Please list the 3 most significant actors/ actions for improved water supply:

Infrastructure → Ministry of Transport
Quality → -11- of Health, M. of Environment
Financial Resources → -12- of Finance

What are the actions that your institution/ organization might take to improve water supply and contribute to its sustainability?

Enforce legal framework in cooperation with other line institutions.

Do you think that only state activities contribute to improved water supply:

☐ YES ☒ No

If the answer is NO please list other institutional levels of significance:

Local Governments, Civil Society, Private entities, Universities,

Are there legislative frameworks (treaties, agreements, MoA, etc.) that are significant for cross-border/ regional water supply systems you are familiar with in your country:

☐ YES ☒ No

If the answer is yes, please provide the title

What are the most important topics that you would like to become more familiar regarding to cross- border /regional water supply systems?

Regional Cooperation (cross-border) on water quality improvement.

PYETESOR MBI MENAXHIMIN E BURIMEVE UJORE NDERKUFITAR DHE MANAXHIMIN E SITEMIT TE FURNIZIMIT ME UJE TE PIJSHEM

Emer: Mbiemer: Institucioni/ Organizata: <i>(Nqs deshironi te mbeten anonim mos e plotesoni kete rresht)</i> Firma:	<div style="border: 1px solid black; height: 20px; margin-bottom: 2px;"></div> <div style="border: 1px solid black; height: 20px; margin-bottom: 2px;"></div> <div style="border: 1px solid black; height: 20px; margin-bottom: 2px;">UJESJELLES KANALIZIME SH.A POGRADEC</div> <div style="border: 1px solid black; height: 20px;"></div>
Misioni ose qellimi i Institucioni/ Organizates ku ju punoni: <input checked="" type="checkbox"/> Furnizim me Uje <input type="checkbox"/> Autoritet <input type="checkbox"/> Institut Kerkimor <input type="checkbox"/> Shoqate <input type="checkbox"/> tjeter (specifikoje)	
Ne cilin sector ushtrohen aktivitetet tuaja? <input checked="" type="checkbox"/> uje <input type="checkbox"/> agrikulture <input type="checkbox"/> edukim/pune kerkimore <input type="checkbox"/> bashkeveprim nderkombetar <input type="checkbox"/> financiar/ legjislativ <input type="checkbox"/> tjeter (specifikoje),	
Ne cfare niveli hapsinore pasqyrohen me mire aktivitetet dhe detyrat tuaja tuaja? <input type="checkbox"/> Lokale <input checked="" type="checkbox"/> Rajonale <input type="checkbox"/> Kombetare <input type="checkbox"/> Nderkombetare <input type="checkbox"/> tjeter (specifikoje),:	
Cilat jane ceshtjet dhe problematikat kryesore ne lidhje me furnizimin me uje? (Renditini ne shkallen 1-5 ku: 1 me e rendesishmja , 5 me pak e rendesishmja, nqs eshte e mundur caktoni te njejten shkalle per dy problematikat kryesore.) <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> 2 Humbjet <input type="checkbox"/> Sasia 1 Cilesia <input type="checkbox"/> Tarifat e ujit </div> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> <input type="checkbox"/> Luhatjet sezonale 3 Politikat dhe legjislacioni 5 Kapacitete njerezore </div> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> 4 Mungesa e fondeve <input type="checkbox"/> Infrastruktura <input type="checkbox"/> Ndryshimet klimaterike </div> <div style="display: flex; justify-content: space-between;"> <input type="checkbox"/> Mungesa e bashkepunimit <input type="checkbox"/> tjeter (specifikoje): </div>	
Cilat jane hapat dhe aktivitetet me te rendesishme qe do te permiresonin furnizimin me uje? ULJA E HUMBJEVE MATJA E UJIT REDUKTIMI DHE MONITORIMI I PRESIONIT NDARJA E SISTEMIT NE ZONA SHERBIMI	

A mendoni se disa ceshtje ndersektorale mund te zgjidhen me:

(Renditini ne shkallen 1-5 ku: 1 me e rendesishmja , 5 me pak e rendesishmja, nqs eshte e mundur caktoni te njejten shkalle per dy problematikat kryesore.)

- ☐ Politika qe do te trajtonin pjesen me te madhe te problematikave,
- 5 Politika te vecanta qe do te trajtonin pjesen me te madhe te problematikave,
- 4 Bashkepunim me i mire ndermjet sektoreve te ndryshem.
- 3 Bashkepunim me i mire ndermjet autoriteteve lokale dhe kombetare
- 1 Me shume burime financiare
- 2 Tarifat e ujit
- ☐ tjeter (specifikoje),

Permendi 3 aktoret/veprimet me te rendesishme per permiresimin e furnizimit me uje:

Stafi
Tarifat
Investime

Cilat jane veprimet qe insitucioni/organizata juaj mund te ndermarr per te permiresuar furnizimin me uje dhe te kontribuoj ne qendrueshmerin e tij?

Ulja e % NRW per te dyja natyrat (reale dhe komerciale)

A mendini se vetem aktivitetet shteterore kontribuojne ne permiresimin e furnizimit me uje:

X Po ☐ Jo

Nqs pergjigja juaj eshte jo, ju lutem listoni nivele te tjera institucionale te rendesishme:

A ka korniza (marveshje, MoA etj) qe jane te rendesishme per sistemet e furnizimit me uje rajonal ose nderkufitar me te cilat ju jeni te njohur ne vendin tuaj?

X Po ☐ Jo

Nqs pergjigja juaj eshte po, ju lutem siguroni titujt:

“MBROJTJA MJEDISORE E LIQENIT TE OHRIT”

Cilat jane temat me te rendesishme qe ju doni me shume informacion ne lidhje me sistemit e furnizimit me uje rajonal ose nderkufitar?

ZBULIMIN E RRJEDHJEVE

QUESTIONNAIRE ON CROSS BORDER /REGIONAL WATER RESOURCES MANAGEMENT AND WATER SUPPLY SYSTEMS

Name: Surname: Institution/ Organization: <i>(If you wish to remain anonymous, please do not fill)</i> Signature:	Sokol
	OLLI
	Albanian Geological Survey

Your Institution/ Organization mission -main scope of the work:

☐ Water supply ☒ Authority ☒ Research Organization ☐ Association
☐ Other (please specify)

In which sector would you locate your activities?

☒ water ☐ agricultural ☒ education/research
☐ international cooperation ☐ financial/ legislative ☐ other, namely :

What spatial scale reflects the best your activities and tasks?

☐ Local ☐ regional ☒ national
☒ international ☐ other, namely :

What are the main water supply issues/ problems?
(Please rank them: 1 the most significant , 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

❶ Losses ❷ Quantity ❶ Quality ❸ Water tariffs
 ❺ Seasonal fluctuations ❹ Policies & legislation framework ❺ Capacities
 ❶ Lack of funding ❷ Infrastructure ❷ Climate change ❸ Weak Cooperation
☐ Other, namely :

What are the most important steps and activities that would improve water supply?

Management of natural resources as a criterion and the pumping stations from the relevant authorities.

Do you think that some cross-cutting issues can be solved by:

(Please rank them: 1 the most significant , 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

- ☒ 3 Policy that would address the majority of issues
- ☒ 2 Separate policies that would address the majority of issues
- ☒ 1 Better cooperation among different sectors
- ☒ 1 Better cooperation among local and national authorities
- ☒ 1 More financial resources
- ☒ 2 Water tariffs
- ☐ Other, namely :

Please list the 3 most significant actors/ actions for improved water supply:

1. Improvement of the distribution network.
2. The control and steps to be taken on indiscriminate use of water resources.
3. Management from the relevant authorities.

What are the actions that your institution/ organization might take to improve water supply and contribute to its sustainability?

The institution where I work, dealing directly with study-research activity of water resources, reserves and calculating the legitimate recommendation on the use of groundwater and surface water.

Do you think that only state activities contribute to improved water supply:

☒ YES ☐ No

If the answer is NO please list other institutional levels of significance:

Are there legislative frameworks (treaties, agreements, MoA, etc.) that are significant for cross-border/ regional water supply systems you are familiar with in your country:

☒ YES ☐ No

If the answer is yes, please provide the title

What are the most important topics that you would like to become more familiar regarding to cross- border /regional water supply systems?

Methodologies of using water from neighboring countries.

PYETESOR MBI MENAXHIMIN E BURIMEVE UJORE NDERKUFITAR DHE MANAXHIMIN E SITEMIT TE FURNIZIMIT ME UJE TE PIJSHEM

<p>Emer: Mbiemer: Institucioni/ Organizata: <i>(Nqs deshironi te mbeten anonim mos e plotesoni kete rresht)</i> Firma:</p>	<p style="text-align: center;"><i>FATMIR</i></p> <p style="text-align: center;"><i>SHALLI</i></p> <p style="text-align: center;"><i>SH.A. UJËSHE, KOMBETARE, BERTH - KUSOV</i></p> <p style="text-align: center;"><i>Shall</i></p>
<p>Misioni ose qellimi i Institucioni/ Organizates ku ju punoni:</p> <p> <input checked="" type="checkbox"/> Furnizim me Uje <input type="checkbox"/> Autoritet <input type="checkbox"/> Institut Kerkimor <input checked="" type="checkbox"/> Shoqate <input type="checkbox"/> tjeter (specifikoje) </p>	
<p>Ne cilin sector ushtrohen aktivitetet tua?</p> <p> <input checked="" type="checkbox"/> uje <input type="checkbox"/> agrikulture <input type="checkbox"/> edukim/pune kerkimore <input type="checkbox"/> bashkeveprim nderkombetar <input type="checkbox"/> financiar/ legjislativ <input type="checkbox"/> tjeter (specifikoje), </p>	
<p>Ne cfare niveli hapsinore pasqyrohen me mire aktivitetet dhe detyrat tua? tua?</p> <p> <input checked="" type="checkbox"/> Lokale <input checked="" type="checkbox"/> Rajonale <input type="checkbox"/> Kombetare <input type="checkbox"/> Nderkombetare <input type="checkbox"/> tjeter (specifikoje),: </p>	
<p>Cilat jane ceshtjet dhe problematikat kryesore ne lidhje me furnizimin me uje? (Renditini ne shkallen 1-5 ku: 1 me e rendesishmja , 5 me pak e rendesishmja, nqs eshte e mundur caktoni te njejten shkalle per dy problematikat kryesore.)</p> <p> <input checked="" type="checkbox"/> Humbjet <input type="checkbox"/> Sasia <input checked="" type="checkbox"/> Cilesia <input checked="" type="checkbox"/> Tarifat e ujit <input type="checkbox"/> Luhatjet sezonale <input checked="" type="checkbox"/> Politikat dhe legjislacioni <input checked="" type="checkbox"/> Kapacitete njerezore <input checked="" type="checkbox"/> Mungesa e fondeve <input type="checkbox"/> Infrastruktura <input type="checkbox"/> Ndryshimet klimaterike <input type="checkbox"/> Mungesa e bashkepunimit <input type="checkbox"/> tjeter (specifikoje): </p>	
<p>Cilat jane hapat dhe aktivitetet me te rendesishme qe do te permiresonin furnizimin me uje?</p> <p> <i>1. Rikonstruksion i sistemit shpirtor qe eshte tejet i detyrues, shpernuar me vendosjen e matbave te rejt.</i> <i>2. Rritja e sasis se ujit te furnizuar dhe ujit qe shpirtor per te siguruar koston e flet.</i> </p>	

A mendoni se disa ceshtje ndersektoriale mund te zgjidhen me:

(Renditini ne shkallen 1-5 ku: 1 me c rendesishmja , 5 me pak e rendesishmja, nqs eshte e mundur caktoni te njejten shkalles per dy problematikat kryesore.)

- ☒ Politika qe do te trajtonin pjesen me te madhe te problematikave,
- ☒ Politika te vecanta qe do te trajtonin pjesen me te madhe te problematikave,
- ☒ Bashkepunim me i mire ndermjet sektoreve te ndryshem.
- ☒ Bashkepunim me i mire ndermjet autoriteteve lokale dhe kombetare
- ☒ Me shume burime financiare
- ☒ Tarifat e ujit
- ☒ tjeter (specifikoje),

Permendi 3 aktoret/veprimct me te rendesishme per permiresimin e furnizimit me uje:

- 1- Zvogelimi i humbjeve ne rjet
- 2- Eliminimin dhe largimin e lidhjeve te paligjishme.
- 3- Matja e sakte e sasise se ujit te konsumuar.

Cilat jane veprimet qe insitucioni/organizata juaj mund te ndermarr per te permiresuar furnizimin me uje dhe te kontribuoj ne qendrueshmerin e tij?

1. Zvogelimin e humbjeve ne rjet.
2. Eliminimin dhe largimin e lidhjeve te paligjishme.
3. Matja e sakte e sasise se ujit te konsumuar.

A mendini se vetem aktivitetet shlelerore kontribuojne ne permiresimin e furnizimit me uje:

☒ Po ☐ Jo

Nqs pergjigja juaj eshte jo, ju lutem listoni nivele te tjera institucionale te rendesishme:

A ka korniza (marveshje, MoA etj) qe jane te rendesishme per sistemet e furnizimit me uje rajonal ose nderkufitar me te cilat ju jeni te njohur ne vendin tuaj?

☐ Po ☒ Jo

Nqs pergjigja juaj eshte po, ju lutem siguroni titujt:

Cilat jane temat me te rendesishme qe ju doni me shume informacion ne lidhje me sistemit e furnizimit me uje rajonal ose nderkufitar?

- Klorinimi i ujit
- Reduktimi i humbjeve ne rjet

QUESTIONNAIRE ON CROSS BORDER /REGIONAL WATER RESOURCES MANAGEMENT AND WATER SUPPLY SYSTEMS

Name: Surname: Institution/ Organization: <i>(If you wish to remain anonymous, please do not fill)</i> Signature:	
	DURRES WATER SUPPLY AND SEWERAGE UTILITY

Your Institution/ Organization mission -main scope of the work:

☒ Water supply ☐ Authority ☐ Research Organization ☐ Association
☐ Other (please specify)

In which sector would you locate your activities?

☒ water ☐ agricultural ☐ education/research
☐ international cooperation ☐ financial/ legislative ☐ other, namely :

What spatial scale reflects the best your activities and tasks?

☐ Local ☒ regional ☐ national
☐ international ☐ other, namely :

What are the main water supply issues/ problems?
(Please rank them: 1 the most significant , 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

1. Losses 3. Quantity ☐ Quality 4. Water tariffs
 5. Seasonal fluctuations ☐ Policies & legislation framework ☐ Capacities
 2. Lack of funding 1.1 Infrastructure ☐ Climate change ☐ Weak Cooperation
☐ Other, namely :

What are the most important steps and activities that would improve water supply?

- Improve financial performance
- Reduction of commercial losses
- Managing the water amount ,to rural areas

Do you think that some cross-cutting issues can be solved by:

(Please rank them: 1 the most significant , 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

☐ Policy that would address the majority of issues

1. Separate policies that would address the majority of issues

3. Better cooperation among different sectors

5. Better cooperation among local and national authorities

2. More financial resources

4. Water tariffs

☐ Other, namely :

Please list the 3 most significant actors/ actions for improved water supply:

-Financial resources,investements

-Technical Department,losses

-Commercial Department,customer

What are the actions that your institution/ organization might take to improve water supply and contribute to its sustainability?

- To provide sustainable, secure, sufficient and proper quality water supply to all existing and potential customers.
- To provide sewage collection, treatment and disposal services to all water supply customers of the Company
- To operate the Company based on a customer oriented, financially sound, and efficient manner.
- To make timely investments for improved water supply system efficiency, so that the service area of the Company is fully prepared to respond to the increased water demand needs of the tourists and residents during the summer period.

Do you think that only state activities contribute to improved water supply:

☐ YES ☒ No

If the answer is NO please list other institutional levels of significance:

Are there legislative frameworks (treaties, agreements, MoA, etc.) that are significant for cross-border/ regional water supply systems you are familiar with in your country:

☒ YES ☐ No

If the answer is yes, please provide the title

What are the most important topics that you would like to become more familiar regarding to cross- border /regional water supply systems?

-Water Meter

-Equipment for maintenance of sewerage systems

- Instruments for detection of pipeline leaks

-Etc,

PYETESOR MBI MENAXHIMIN E BURIMEVE UJORE NDERKUFITAR DHE MANAXHIMIN E SITEMIT TE FURNIZIMIT ME UJE TE PIJSHEM

Emer: Mbiemer: Institucioni/ Organizata: <i>(Nqs deshironi te mbeten anonim mos e plotesoni kete rresht)</i> Firma:	ILIR ROPI SH.A UJESJELLES FSHAT ELBASAN
Misioni ose qellimi i Istitucioni/ Organizates ku ju punoni: <input checked="" type="checkbox"/> Furnizim me Uje <input type="checkbox"/> Autoritet <input type="checkbox"/> Institut Kerkimor <input type="checkbox"/> Shoqate <input type="checkbox"/> tjeter (specifikoje)	
Ne cilin sector ushtrohen aktivitetet tuaja? <input checked="" type="checkbox"/> Uje <input type="checkbox"/> agrikulture <input type="checkbox"/> edukim/pune kerkimore <input type="checkbox"/> bashkeveprim nderkombetar <input type="checkbox"/> financiar/ legjislativ <input type="checkbox"/> tjeter (specifikoje),	
Ne cfare niveli hapsinore pasqyrohen me mire aktivitetet dhe detyrat tuaja tuaja? <input checked="" type="checkbox"/> Lokale <input type="checkbox"/> Rajonale <input type="checkbox"/> Kombetare <input type="checkbox"/> Nderkombetare <input type="checkbox"/> tjeter (specifikoje),:	
Cilat jane ceshtjet dhe problematikat kryesore ne lidhje me furnizimin me uje? (Renditini ne shkallen 1-5 ku: 1 me e rendesishmja , 5 me pak e rendesishmja, nqs eshte e mundur caktoni te njejten shkalle per dy problematikat kryesore.) 1 Humbjet 3 Sasia 1 Cilesia 1 Tarifat e ujit <input type="checkbox"/> Luhatjet sezonale 1 Politikat dhe legjislacioni 3 Kapacitete njerezore 1 Mungesa e fondeve 1 Infrastruktura <input type="checkbox"/> Ndryshimet klimaterike 4 Mungesa e bashkepunimit <input type="checkbox"/> tjeter (specifikoje):	
Cilat jane hapat dhe aktivitetet me te rendesishme qe do te permiresonin furnizimin me uje? 1 -Permiresimi i rrjeteve shperndarese. 2 -Rinovimi i pajisjeve dhe makinerive 3 -Matja e ujit ne prodhim dhe shitje	
A mendoni se disa ceshtje ndersektoriale mund te zgjidhen me: (Renditini ne shkallen 1-5 ku: 1 me e rendesishmja , 5 me pak e rendesishmja, nqs eshte e mundur caktoni te njejten shkalle per dy problematikat kryesore.)	

- 1 Politika qe do te trajtonin pjesen me te madhe te problematikave,
- 3 Politika te vecanta qe do te trajtonin pjesen me te madhe te problematikave,
- 3 Bashkepunim me i mire ndermjet sektoreve te ndryshem.
- 1 Bashkepunim me i mire ndermjet autoriteteve lokale dhe kombetare
- 1 Me shume burime financiare
- 1 Tarifat e ujit
- ☐ tjeter (specifikojte),

Permendi 3 aktoret/veprimet me te rendesishme per permiresimin e furnizimit me uje:

- 1-Permiresimi i rrjeteve shperndarese.
- 2-Rinovimi i pajisjeve dhe makinerive
- 3-Matja e ujit ne prodhim dhe shitje

Cilat jane veprimet qe insitucioni/organizata juaj mund te ndermarr per te permiresuar furnizimin me uje dhe te kontribuoj ne qendrueshmerin e tij?

- 1-Dhenia e ujit me cilesi.
- 2-Riparimin brenda 24 oreve i difekteve ne tubacionet kryesore.

A mendini se vetem aktivitetet shteterore kontribuojne ne permiresimin e furnizimit me uje:

✓ ☐ Po ☐ Jo

Nqs pergjigja juaj eshte jo, ju lutem listoni nivele te tjera institucionale te rendesishme:

A ka korniza (marveshje, MoA etj) qe jane te rendesishme per sistemet e furnizimit me uje rajonal ose nderkufitar me te cilat ju jeni te njohur ne vendin tuaj?

☐ Po

✓ ☐ Jo

Nqs pergjigja juaj eshte po, ju lutem siguroni titujt:

Cilat jane temat me te rendesishme qe ju doni me shume informacion ne lidhje me sistemit e furnizimit me uje rajonal ose nderkufitar?

[Print](#) | [Close Window](#)

Subject: Projekti DRINKADRIA: Plotesim pyetesori
From: SHUKALB Informacion <info@shukalb.al>
Date: Thu, May 29, 2014 1:10 pm
To: "SHUKALB Informacion" <info@shukalb.al>
Attach: Pyetesori_Shqip.doc
Pyetesori_Anglisht.doc

Te nderuar anetare,

Ne kuader te nje projekti te saj, Shoqate e Ujesjelles Kanalizimeve e Shqiperise SHUKALB po mbledh informacion qe gjendet ne formularin bashkengjitur me kete email. Ju lutemi potesojeni formularin me shkrim dore dhe dergojeni te skanuar sa me shpejt te mundeni brenda javes ne kete adrese emaili.

Mund te plotesoni versionin ne Shqip ose Anglisht sipas deshires.

Faleminderit per bashkepunimin,

Anisa Aliaj,

Koordinatorë,


Projekti DRINKADRIA

Shoqata Ujësjetllës Kanalizime e Shqipërisë

Rruga "Pjeter Bogdani", Nd. 17 Ap. 25
Njësia Bashkiake Nr. 5, Kodi Postar 1019
Tirane, Shqipëri
Tel: (+355/4) 2245 101
Fax: (+355/4) 2245 101

Mob : (+355) 69 60 12782
E-mail: info@shukalb.al
Web: www.shukalb.org

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 Ju lutem konsideroni ambientin perpara se te printoni kete e-mail

PYETESOR MBI MENAXHIMIN E BURIMEVE UJORE NDERKUFITAR DHE MANAXHIMIN E SITEMIT TE FURNIZIMIT ME UJE TE PIJSHEM

<p>Emer:</p> <p>Mbiemer:</p> <p>Institucioni/ Organizata:</p> <p><i>(Nqs deshironi te mbeten anonim mos e plotesoni kete rresht)</i></p> <p>Firma:</p>	<p><i>Alia</i></p> <p><i>Crnolli</i></p> <p><i>Elber Xepic</i></p>
<p>Misioni ose qellimi i Institucioni/ Organizates ku ju punoni:</p> <p> <input checked="" type="checkbox"/> Furnizim me Uje <input type="checkbox"/> Autoritet <input type="checkbox"/> Institut Kerkimor <input type="checkbox"/> Shoqate <input type="checkbox"/> tjeter (specifikoje) </p>	
<p>Ne cilin sektor ushtrohen aktivitetet tuaja?</p> <p> <input checked="" type="checkbox"/> uje <input type="checkbox"/> agrikulture <input type="checkbox"/> edukim/pune kerkimore <input type="checkbox"/> bashkeveprim nderkombetar <input type="checkbox"/> financiar/ legjislativ <input type="checkbox"/> tjeter (specifikoje), </p>	
<p>Ne cfare niveli hapsinore pasqyrohen me mire aktivitetet dhe detyrat tuaja tuaja?</p> <p> <input checked="" type="checkbox"/> Lokale <input type="checkbox"/> Rajonale <input type="checkbox"/> Kombetare <input type="checkbox"/> Nderkombetare <input type="checkbox"/> tjeter (specifikoje),: </p>	
<p>Cilat jane ceshtjet dhe problematikat kryesore ne lidhje me furnizimin me uje? (Renditini ne shkallen 1-5 ku: 1 me e rendesishmja , 5 me pak e rendesishmja, nqs eshte e mundur caktoni te njejten shkalles per dy problematikat kryesore.)</p> <p> <input checked="" type="checkbox"/> Humbjet <input type="checkbox"/> Sasia <input type="checkbox"/> Cilesia <input checked="" type="checkbox"/> Tarifat e ujit <input checked="" type="checkbox"/> Luhatjet sezonale <input type="checkbox"/> Politikat dhe legjislacioni <input type="checkbox"/> Kapacitete njerezore <input checked="" type="checkbox"/> Mungesa e fondeve <input checked="" type="checkbox"/> Infrastruktura <input type="checkbox"/> Ndryshimet klimaterike <input type="checkbox"/> Mungesa e bashkepunimit <input type="checkbox"/> tjeter (specifikoje): </p>	
<p>Cilat jane hapat dhe aktivitetet me te rendesishme qe do te permiresonin furnizimin me uje?</p> <p><i>Ristrukturimi i stacioneve te prodhimit te ujit, rekonstrukcion i sajtit superaudore, instalimi i angte"ore individuale te konsumatorit.</i></p>	

A mendoni se disa ceshtje ndersektorale mund te zgjidhen me:

(Renditini ne shkallen 1-5 ku: 1 me e rendesishmja , 5 me pak e rendesishmja, nqs eshte e mundur caktoni te njejten shkalle per dy problematikat kryesore.)

- ☐ Politika qe do te trajtonin pjesen me te madhe te problematikave,
- ☒ Politika te vecanta qe do te trajtonin pjesen me te madhe te problematikave,
- ☒ Bashkepunim me i mire ndermjet sektoreve te ndryshem.
- ☒ Bashkepunim me i mire ndermjet autoriteteve lokale dhe kombetare
- ☒ Me shume burime financiare
- ☒ Tarifat e ujit
- ☐ tjeter (specifikojte),

Permendi 3 aktoret/veprimet me te rendesishme per permiresimin e furnizimit me uje:

- Instalimi i matësve individualë
- Rikonstruksion i rrjetit supërnacional
- Sensibilizimi i konsumatorëve për përdorim të ujit të pajshëm.

Cilat jane veprimet qe insitucioni/organizata juaj mund te ndermarr per te permiresuar furnizimin me uje dhe te kontribuoj ne qendrueshmerin e tij?

Përmirësimi i rrjetit ekzistues, eleminimi i lloqjeve të jashtëligjshme, përcjella me matës.

A mendini se vetem aktivitetet shteterore kontribuojne ne permiresimin e furnizimit me uje:

☒ Po ☐ Jo

Nqs pergjigja juaj eshte jo, ju lutem listoni nivele te tjera institucionale te rendesishme:

A ka korniza (marveshje, MoA etj) qe jane te rendesishme per sistemet e furnizimit me uje rajonal ose nderkufitar me te cilat ju jeni te njohur ne vendin tuaj?

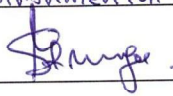
☐ Po ☒ Jo

Nqs pergjigja juaj eshte po, ju lutem siguroni titujt:

Cilat jane temat me te rendesishme qe ju doni me shume informacion ne lidhje me sistemit e furnizimit me uje rajonal ose nderkufitar?

- Sistemi i prodhimit
- Efienca e energji'së

QUESTIONNAIRE ON CROSS BORDER /REGIONAL WATER RESOURCES MANAGEMENT AND WATER SUPPLY SYSTEMS

Name: Surname: Institution/ Organization: <i>(If you wish to remain anonymous, please do not fill)</i> Signature:	<div style="border-bottom: 1px solid black; padding-bottom: 2px;">Meivis</div> <div style="border-bottom: 1px solid black; padding-bottom: 2px;">Struga</div> <div style="border-bottom: 1px solid black; padding-bottom: 2px;">Environmental and Territorial Management Institute</div> <div style="border-bottom: 1px solid black; padding-bottom: 2px;">  </div>
---	--

Your Institution/ Organization mission -main scope of the work:

☐ Water supply
 ☐ Authority
 ☐ Research Organization
 ☒ Association
☐ Other (please specify)

In which sector would you locate your activities?

☒ water
 ☐ agricultural
 ☒ education/research
☒ international cooperation
☐ financial/ legislative
☒ other, namely : *Territory Planning Energy Efficiency*

What spatial scale reflects the best your activities and tasks?

☐ Local
☐ regional
☒ national
☐ international
☐ other, namely :

What are the main water supply issues/ problems?
 (Please rank them: 1 the most significant , 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

☒ Losses
☒ Quantity
☒ Quality
☒ Water tariffs
☒ Seasonal fluctuations
☒ Policies & legislation framework
☒ Capacities
☒ Lack of funding
☒ Infrastructure
☒ Climate change
☒ Weak Cooperation
☐ Other, namely :

What are the most important steps and activities that would improve water supply?

→ losses reduction
 - Water Management / collection of tariffs
 - Maintenance - technical assistance
 - Financial assistance.
 - Monitoring → Quality

Do you think that some cross-cutting issues can be solved by:

(Please rank them: 1 the most significant , 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

- ☒ Policy that would address the majority of issues
- ☒ Separate policies that would address the majority of issues
- ☒ Better cooperation among different sectors
- ☒ Better cooperation among local and national authorities
- ☒ More financial resources
- ☒ Water tariffs
- ☐ Other, namely :

Please list the 3 most significant actors/ actions for improved water supply:

- Proper Infrastructure - ^{Water facilities} / - Financial resources
- Water Management / tariffs - Water treatment / - Cooperation

What are the actions that your institution/ organization might take to improve water supply and contribute to its sustainability?

- Awareness Raising Programs
- Capacity Building Activities for the employees

Do you think that only state activities contribute to improved water supply:

☐ YES ☒ No

If the answer is NO please list other institutional levels of significance:

Local authorities / Utilities

Are there legislative frameworks (treaties, agreements, MoA, etc.) that are significant for cross-border/ regional water supply systems you are familiar with in your country:

☒ YES ☐ No

If the answer is yes, please provide the title

- Water Framework Directive (WFD)
- UNECE Convention on Transboundary Waters
- Barcelona Convention
- Environmental Impact Assessment for Transboundary W. (ESPRI/C)
- Water Convention

What are the most important topics that you would like to become more familiar regarding to cross- border /regional water supply systems?

- Transboundary agreements for shared water courses
- River Basin Management (transboundary effect)

QUESTIONNAIRE ON CROSS BORDER /REGIONAL WATER RESOURCES MANAGEMENT AND WATER SUPPLY SYSTEMS

Name:	Etleva
Surname:	Demiri
Institution/ Organization: (If you wish to remain anonymous, please do not fill)	Water Regulatory Authority
Signature:	<i>Etleva</i>

Your Institution/ Organization mission -main scope of the work:

- ☐ Water supply ☒ Authority ☐ Research Organization ☐ Association
☐ Other (please specify)

In which sector would you locate your activities?

- ☒ water ☐ agricultural ☐ education/research
☐ international cooperation ☐ financial/ legislative ☐ other, namely :

What spatial scale reflects the best your activities and tasks?

- ☐ Local ☐ regional ☒ national
☐ international ☐ other, namely :

What are the main water supply issues/ problems?
(Please rank them: 1 the most significant , 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

- ☒ 1 Losses ☒ 5 Quantity ☒ 5 Quality ☒ 2 Water tariffs
☒ 5 Seasonal fluctuations ☒ 2 Policies & legislation framework ☒ 7 Capacities
☒ 2 Lack of funding ☒ 3 Infrastructure ☒ 4 Climate change ☒ 4 Weak Cooperation
☒ 5 Other, namely :

What are the most important steps and activities that would improve water supply?

- work on water supply and sewerage services
- Approval and implementation of the MasterPlan in WSS sector.
- Continue the regionalization process of WSS services through implementation of the sector strategy.
- Reduction of the non-revenue water level.
- Increase the metering level in water production and consumption.
- Increase the collection efficiency.
- Better management for the reduction of services cost from the water companies.

Do you think that some cross-cutting issues can be solved by:

(Please rank them: 1 the most significant , 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

- ☒ Policy that would address the majority of issues
- ☒ Separate policies that would address the majority of issues
- ☒ Better cooperation among different sectors
- ☒ Better cooperation among local and national authorities
- ☒ More financial resources
- ☒ Water tariffs
- ☐ Other, namely :

Please list the 3 most significant actors/ actions for improved water supply:

- Better management
- Proper allocation of investments

What are the actions that your institution/ organization might take to improve water supply and contribute to its sustainability?

- Regulate services through tariff policies.
- Help WS companies achieving financial sustainability through setting achievable performance targets.

Do you think that only state activities contribute to improved water supply:

☐ YES ☒ No

If the answer is NO please list other institutional levels of significance:

Foreign Donors
Association
NGO

Are there legislative frameworks (treaties, agreements, MoA, etc.) that are significant for cross-border/ regional water supply systems you are familiar with in your country:

☐ YES ☒ No

If the answer is yes, please provide the title

What are the most important topics that you would like to become more familiar regarding to cross- border /regional water supply systems?

- Licensing & Tariff regime
- Performance monitoring
- Consumer protection

QUESTIONNAIRE ON CROSS BORDER /REGIONAL WATER RESOURCES MANAGEMENT AND WATER SUPPLY SYSTEMS

Name: Surname: Institution/ Organization: <i>(If you wish to remain anonymous, please do not fill)</i> Signature:	Jovan
	Gjika
	General Directorate of Water Supply and Sewerage Ministry of Transport and Infrastructure Albania
Your Institution/ Organization mission -main scope of the work:	
<input type="checkbox"/> Water supply <input checked="" type="checkbox"/> Authority <input type="checkbox"/> Research Organization <input type="checkbox"/> Association <input type="checkbox"/> Other (please specify)	
In which sector would you locate your activities?	
<input checked="" type="checkbox"/> water <input type="checkbox"/> agricultural <input type="checkbox"/> education/research <input type="checkbox"/> international cooperation <input type="checkbox"/> financial/ legislative <input type="checkbox"/> other, namely :	
What spatial scale reflects the best your activities and tasks?	
<input type="checkbox"/> Local <input type="checkbox"/> regional <input checked="" type="checkbox"/> national <input type="checkbox"/> international <input type="checkbox"/> other, namely :	
What are the main water supply issues/ problems? (Please rank them: 1 the most significant , 5 the least significant, it is possible assign the same rank to maximum two issues/problems)	
1 Losses 4 Quantity 4 Quality 3 Water tariffs 4 Seasonal fluctuations 3 Policies & legislation framework 2 Capacities 2 Lack of funding 1 Infrastructure 5 Climate change 5 Weak Cooperation <input type="checkbox"/> Other, namely :	
What are the most important steps and activities that would improve water supply? Legislation reform Increase of management in order to reduce the administrative loses and improve services Improvement of infrastructure through increase of investments	

Do you think that some cross-cutting issues can be solved by:

(Please rank them: 1 the most significant , 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

- 4 Policy that would address the majority of issues
- 1 Separate policies that would address the majority of issues
- 3 Better cooperation among different sectors
- 3 Better cooperation among local and national authorities
- 2 More financial resources
- 5 Water tariffs
- ☐ Other, namely :

Please list the 3 most significant actors/ actions for improved water supply:

Legislation reform

Increase of management in order to reduce the administrative loses and improve services

Improvement of infrastructure through increase of investments

What are the actions that your institution/ organization might take to improve water supply and contribute to its sustainability?

Leading the reform on the legislation

Increase financial support for improving the infrastructure

Do you think that only state activities contribute to improved water supply:

☒ YES ☐ No

If the answer is NO please list other institutional levels of significance:

Are there legislative frameworks (treaties, agreements, MoA, etc.) that are significant for cross-border/ regional water supply systems you are familiar with in your country:

☐ YES ☒ No

If the answer is yes, please provide the title

What are the most important topics that you would like to become more familiar regarding to cross- border /regional water supply systems?

Management of the network

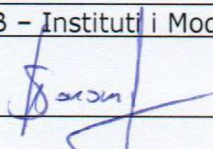
Organization of the service provider and decision making within the provider

Tariff setting

PYETESOR MBI MENAXHIMIN E BURIMEVE UJORE NDERKUFITAR DHE MANAXHIMIN E SITEMIT TE FURNIZIMIT ME UJE TE PIJSHEM

Emer: Mbiemer: Institucioni/ Organizata: <i>(Nqs deshironi te mbeten anonim mos e plotesoni kete rresht)</i> Firma:	<div style="border-bottom: 1px solid black; padding-bottom: 2px; text-align: center;">T A J A R</div> <div style="border-bottom: 1px solid black; padding-bottom: 2px; text-align: center;">B L C I</div> <div style="border-bottom: 1px solid black; padding-bottom: 2px; text-align: center;">SHA "UJESJELLESI GRAMSH"</div>
Misioni ose qellimi i Institucioni/ Organizates ku ju punoni: <input checked="" type="checkbox"/> Furnizim me Uje <input type="checkbox"/> Autoritet <input type="checkbox"/> Institut Kerkimor <input type="checkbox"/> Shoqate <input type="checkbox"/> tjeter (specifikoje)	
Ne cilin sector ushtrohen aktivitetet tuaja? <input checked="" type="checkbox"/> uje <input type="checkbox"/> agrikulture <input type="checkbox"/> edukim/pune kerkimore <input type="checkbox"/> bashkeveprim nderkombetar <input type="checkbox"/> financiar/ legjislativ <input type="checkbox"/> tjeter (specifikoje),	
Ne cfare niveli hapsinore pasqyrohen me mire aktivitetet dhe detyrat tuaja tuaja? <input checked="" type="checkbox"/> Lokale <input type="checkbox"/> Rajonale <input type="checkbox"/> Kombetare <input type="checkbox"/> Nderkombetare <input type="checkbox"/> tjeter (specifikoje),:	
Cilat jane ceshtjet dhe problematikat kryesore ne lidhje me furnizimin me uje? (Renditini ne shkallen 1-5 ku: 1 me e rendesishmja , 5 me pak e rendesishmja, nqs eshte e mundur caktoni te njejten shkalle per dy problematikat kryesore.) <input checked="" type="checkbox"/> Humbjet <input type="checkbox"/> Sasia <input type="checkbox"/> Cilesia <input checked="" type="checkbox"/> Tarifat e ujit <input type="checkbox"/> Luhatjet sezonale <input checked="" type="checkbox"/> Politikat dhe legjislacioni <input type="checkbox"/> Kapacitete njerezore <input checked="" type="checkbox"/> Mungesa e fondeve <input checked="" type="checkbox"/> Infrastruktura <input type="checkbox"/> Ndryshimet klimaterike <input type="checkbox"/> Mungesa e bashkepunimit <input type="checkbox"/> tjeter (specifikoje):	

PYETESOR MBI MENAXHIMIN E BURIMEVE UJORE NDERKUFITAR DHE MANAXHIMIN E SITEMIT TE FURNIZIMIT ME UJE TE PIJSHEM

Emer: Mbiemer: Institucioni/ Organizata: <i>(Nqs deshironi te mbeten anonim mos e plotesoni kete rresht)</i> Firma:	Sagest Ekonomi IMB - Instituti i Modelimeve në Biznes <div style="text-align: center; margin-top: 20px;">  </div>
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Misioni ose qellimi i Institucioni/ Organizates ku ju punoni:

☐ Furnizim me Uje
 ☐ Autoritet
 ☐ Institut Kerkimor
 ☐ Shoqate
☒ tjeter (specifikoje) Institut qe prodhon softuerë per menaxhimin e Ndermarrjeve te Ujesjellesv

Ne cilin sektor ushtrohen aktivitetet tuaja?

☐ uje
 ☐ agrikulture
 ☒ edukim/pune kerkimore
☐ bashkeveprim nderkombetar
 ☒ financiar/ legjislativ
 ☐ tjeter (specifikoje),

Ne cfare niveli hapsinore pasqyrohen me mire aktivitetet dhe detyrat tuaja tuaja?

☐ Lokale
 ☒ Rajonale
 ☐ Kombetare
☐ Nderkombetare
☐ tjeter (specifikoje),:

Cilat jane ceshtjet dhe problematikat kryesore ne lidhje me furnizimin me uje?
(Renditini ne shkallen 1-5 ku: 1 me e rendesishmja , 5 me pak e rendesishmja, nqs eshte e mundur caktoni te njejten shkalle per dy problematikat kryesore.)

☒ Humbjet
 ☐ Sasia
 ☐ Cilësia
 ☐ Tarifat e ujit
☐ Luhatjet sezonale
 ☐ Politikat dhe legjislacioni
 ☒ Kapacitete njerëzore
☐ Mungesa e fondeve
 ☒ Infrastruktura
 ☐ Ndryshimet klimaterike
☐ Mungesa e bashkepunimit
 ☒ tjeter (specifikoje): Informatizimi i menaxhimit të plotë

Cilat jane hapat dhe aktivitetet me te rendesishme qe do te permiresonin furnizimin me uje?

- Rritja e eficeses se Ndërmarrjeve te Ujësjellës Kanalizimeve nëpërmjet informatizimit të gjithë hallkave tekniko administrative dhe trajnimit të personelit.

A mendoni se disa ceshtje ndersektoriale mund te zgjidhen me:

(Renditini ne shkallen 1-5 ku: 1 me e rendesishmja , 5 me pak e rendesishmja, nqs eshte e mundur caktoni te njejten shkalle per dy problematikat kryesore.)

- ☒ Politika qe do te trajtonin pjesen me te madhe te problematikave,
- ☒ Politika te vecanta qe do te trajtonin pjesen me te madhe te problematikave,
- ☐ Bashkepunim me i mire ndermjet sektoreve te ndryshem.
- ☒ Bashkepunim me i mire ndermjet autoriteteve lokale dhe kombetare
- ☐ Me shume burime financiare
- ☐ Tarifat e ujit
- ☒ tjeter (specifikoje), Politika të informatizimin dhe monitorimit *online*

Përmendni 3 aktoret/veprimet me te rendesishme per permiresimin e furnizimit me uje:

- Informatizimi sa më i plotë i tyre: që nga leximi i ujëmatësve, gjenerimi i faturave, detyrimeve, treguesve ekonomik financiar, QK, automatizimi i amortizimit, monitorimi me GIS, e deri tek transparenca online e pagesave.
- Trajnimi për rritjen e kapaciteteve njerëzore
- Përmirësimi i kapaciteteve teknike dhe infrastrukturës

Cilat jane veprimet qe insitucioni/organizata juaj mund te ndermarr per te permiresuar furnizimin me uje dhe te kontribuoj ne qendrushmerin e tij?

- Pajisja e Ndërmarrjeve te Ujësjellës Kanalizimeve me software për administrimin e ndërmarrjes, finance, faturimin, marrdheniet me konsumatorët dhe rritjen e eficences se pergjithshme.
- Trajnimi i personelit te ndërmarrjeve te Ujësjellës Kanalizimeve për menaxhimin me te mire te aseteve, faturimit, matësve, prodhimit, humbjeve ne rrjet etj.

A mendini se vetem aktivitetet shteterore kontribuojne ne permiresimin e furnizimit me uje:

☐ Po ☒ Jo

Nqs pergjigja juaj eshte jo, ju lutem listoni nivele te tjera institucionale te rendesishme:

- Aktivitete të shoqatave të NUK, e ndonjë tjetër.

A ka korniza (marveshje, MoA etj) qe jane te rendesishme per sistemet e furnizimit me uje rajonal ose nderkufitar me te cilat ju jeni te njohur ne vendin tuaj?

☐ Po ☐ Jo

Nqs pergjigja juaj eshte po, ju lutem siguroni titujt:

Cilat jane temat me te rendesishme qe ju doni me shume informacion ne lidhje me sistemit e furnizimit me uje rajonal ose nderkufitar?

- Jemi njohës të menaxhimit të ujësjellësve; kemi bërë informatizim e menaxhimit të sistemeve të Billingut, të Financave, CRM, GIS, etj.

PYETESOR MBI MENAXHIMIN E BURIMEVE UJORE NDERKUFITAR DHE MANAXHIMIN E SITEMIT TE FURNIZIMIT ME UJE TE PIJSHEM

Emer: Mbiemer: Institucioni/ Organizata: <i>(Nqs deshironi te mbeten anonim mos e plotesoni kete rresht)</i> Firma:	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="padding: 2px 5px;">NDRI CIM</td></tr> <tr><td style="padding: 2px 5px;">PROJ</td></tr> <tr><td style="padding: 2px 5px;">Ujesjelles - Kanalizime Kavaje sh.a</td></tr> <tr><td style="height: 30px;"></td></tr> </table>	NDRI CIM	PROJ	Ujesjelles - Kanalizime Kavaje sh.a	
NDRI CIM					
PROJ					
Ujesjelles - Kanalizime Kavaje sh.a					
Misioni ose qellimi i Institucioni/ Organizates ku ju punoni:					
<input checked="" type="checkbox"/> Furnizim me Uje <input type="checkbox"/> Autoritet <input type="checkbox"/> Institut Kerkimor <input type="checkbox"/> Shoqate <input type="checkbox"/> tjeter (specifikoje)					
Ne cilin sector ushtrohen aktivitetet tua?					
<input checked="" type="checkbox"/> uje <input type="checkbox"/> agrikulture <input type="checkbox"/> edukim/pune kerkimore <input type="checkbox"/> bashkeveprim nderkombetar <input type="checkbox"/> financiar/ legjislativ <input type="checkbox"/> tjeter (specifikoje),					
Ne cfare niveli hapsinore pasqyrohen me mire aktivitetet dhe detyrat tua?					
<input checked="" type="checkbox"/> Lokale <input type="checkbox"/> Rajonale <input type="checkbox"/> Kombetare <input type="checkbox"/> Nderkombetare <input type="checkbox"/> tjeter (specifikoje),:					
Cilat jane ceshtjet dhe problematikat kryesore ne lidhje me furnizimin me uje? (Renditini ne shkallen 1-5 ku: 1 me e rendesishmja , 5 me pak e rendesishmja, nqs eshte e mundur caktoni te njeften shkalle per dy problematikat kryesore.)					
<div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">4 Humbjet</div> <div style="width: 50%;">1 Sasia</div> <div style="width: 50%;"> <input type="checkbox"/> Cilesia </div> <div style="width: 50%;">5 Tarifat e ujit</div> </div> <div style="display: flex; flex-wrap: wrap; margin-top: 10px;"> <div style="width: 50%;"> <input type="checkbox"/> Luhatjet sezonale </div> <div style="width: 50%;">2 Politikat dhe legjislacioni</div> <div style="width: 50%;"> <input type="checkbox"/> Kapacitete njerezore </div> </div> <div style="display: flex; flex-wrap: wrap; margin-top: 10px;"> <div style="width: 50%;">3 Mungesa e fondeve</div> <div style="width: 50%;"> <input type="checkbox"/> Infrastruktura </div> <div style="width: 50%;"> <input type="checkbox"/> Ndryshimet klimaterike </div> </div> <div style="display: flex; flex-wrap: wrap; margin-top: 10px;"> <div style="width: 50%;"> <input type="checkbox"/> Mungesa e bashkepunimit </div> <div style="width: 50%;"> <input type="checkbox"/> tjeter (specifikoje): </div> </div>					
Cilat jane hapat dhe aktivitetet me te rendesishme qe do te permiresonin furnizimin me uje?					
<ol style="list-style-type: none"> 1. informimi i popullates per mos shperdorim te ujit 2. Zevendesimi i tubacioneve te vjeter me te rinj. 					

A mendoni se disa ceshtje ndersektoriale mund te zgjidhen me:

(Renditini ne shkallen 1-5 ku: 1 me e rendesishmja , 5 me pak e rendesishmja, nqs eshte e mundur caktoni te njejten shkalle per dy problematikat kryesore.)

- ☐ Politika qe do te trajtonin pjesen me te madhe te problematikave,
- ☐ Politika te vecanta qe do te trajtonin pjesen me te madhe te problematikave, **3**
- ☐ Bashkepunim me i mire ndermjet sektoreve te ndryshem. **2**
- ☐ Bashkepunim me i mire ndermjet autoriteteve lokale dhe kombetare **1**
- ☐ Me shume burime financiare **4**
- ☐ Tarifat e ujit **5**
- ☐ tjeter (specifikoje),

Permendi 3 aktoret/veprimet me te rendesishme per permiresimin e furnizimit me uje:

- 1. vendosje matesi uji familjare dhe ente**
- 2. ulja e humbjeve**
- 3. organizimi i punes**

Cilat jane veprimet qe insitucioni/organizata juaj mund te ndermarr per te permiresuar furnizimin me uje dhe te kontribuoj ne qendrueshmerin e tij?

- 1. Eliminimi i difekteve.**

A mendini se vetem aktivitetet shteterore kontribuojne ne permiresimin e furnizimit me uje:

☒ Po ☐ Jo

Nqs pergjigja juaj eshte jo, ju lutem listoni nivele te tjera institucionale te rendesishme:

A ka korniza (marveshje, MoA etj) qe jane te rendesishme per sistemet e furnizimit me uje rajonal ose nderkufitar me te cilat ju jeni te njohur ne vendin tuaj?

☒ Po ☐ Jo

Nqs pergjigja juaj eshte po, ju lutem siguroni titujt:

Cilat jane temat me te rendesishme qe ju doni me shume informacion ne lidhje me sistemit e furnizimit me uje rajonal ose nderkufitar?

- 1. Bashkepunim sa me te mire me lidhje me sistemin rajonal te furnizimit me uje.**

PYETESOR MBI MENAXHIMIN E BURIMEVE UJORE NDERKUFITAR DHE MANAXHIMIN E SITEMIT TE FURNIZIMIT ME UJE TE PIJSHEM

Emer: Mbiemer: Institucioni/ Organizata: <i>(Nqs deshironi te mbeten anonim mos e plotesoni kete rresht)</i> Firma:	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="padding: 2px;">Arben</td></tr> <tr><td style="padding: 2px;">Jarazi</td></tr> <tr><td style="padding: 2px;">Ujesjelles Kanalizime Korçe SH.A</td></tr> </table>	Arben	Jarazi	Ujesjelles Kanalizime Korçe SH.A													
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<table style="width: 100%;"> <tr> <td><input type="checkbox"/> 2 Humbjet</td> <td><input type="checkbox"/> 1 Sasia</td> <td><input type="checkbox"/> 2 Cilesia</td> <td><input type="checkbox"/> 2 Tarifat e ujit</td> </tr> <tr> <td><input type="checkbox"/> 3 Luhatjet sezonale</td> <td><input type="checkbox"/> 3 Politikat dhe legjislacioni</td> <td><input type="checkbox"/> 2 Kapacitete njerezore</td> <td></td> </tr> <tr> <td><input type="checkbox"/> 2 Mungesa e fondeve</td> <td><input type="checkbox"/> 2 Infrastruktura</td> <td><input type="checkbox"/> 3 Ndryshimet klimaterike</td> <td></td> </tr> <tr> <td><input type="checkbox"/> 3 Mungesa e bashkepunimit</td> <td colspan="3"><input type="checkbox"/> tjeter (specifikoje):</td> </tr> </table>		<input type="checkbox"/> 2 Humbjet	<input type="checkbox"/> 1 Sasia	<input type="checkbox"/> 2 Cilesia	<input type="checkbox"/> 2 Tarifat e ujit	<input type="checkbox"/> 3 Luhatjet sezonale	<input type="checkbox"/> 3 Politikat dhe legjislacioni	<input type="checkbox"/> 2 Kapacitete njerezore		<input type="checkbox"/> 2 Mungesa e fondeve	<input type="checkbox"/> 2 Infrastruktura	<input type="checkbox"/> 3 Ndryshimet klimaterike		<input type="checkbox"/> 3 Mungesa e bashkepunimit	<input type="checkbox"/> tjeter (specifikoje):		
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Cilat jane hapat dhe aktivitetet me te rendesishme qe do te permiresonin furnizimin me uje?																	
1. Ujla e perqindjeve te humbjeve te ujit 2.																	

A mendoni se disa ceshtje ndersektorale mund te zgjidhen me:

(Renditini ne shkallen 1-5 ku: 1 me e rendesishmja , 5 me pak e rendesishmja, nqs eshte e mundur caktoni te njejten shkalle per dy problematikat kryesore.)

- ☐ 3 Politika qe do te trajtonin pjesen me te madhe te problematikave,
- ☐ 2 Politika te vecanta qe do te trajtonin pjesen me te madhe te problematikave,
- ☐ 1 Bashkepunim me i mire ndermjet sektoreve te ndryshem.
- ☐ 1 Bashkepunim me i mire ndermjet autoriteteve lokale dhe kombetare
- ☐ 1 Me shume burime financiare
- ☐ 2 Tarifat e ujit
- ☐ tjeter (specifikoje),

Permendi 3 aktoret/veprimet me te rendesishme per permiresimin e furnizimit me uje:

1. Sistem inteligjent matjeje
2. Identifikim dhe kontroll i humbejve (teknike + administrative)
3. Mirembajtje e vazhdueshme ne te gjitha hallkat e sistemit te shperndarjes

Cilat jane veprimet qe insitucioni/organizata juaj mund te ndermarr per te permiresuar furnizimin me uje dhe te kontribuoj ne qendrueshmerin e tij?

1. Instalimi i sistemit inteligjent te matjes
2. Infrastruktura te sigurt per shperndarjen e sherbimit
3. Mbajtja ne nivel sa me te ulet te perqindjes se humbjeve te ujit te lejueshme

A mendini se vetem aktivitetet shteterore kontribuojne ne permiresimin e furnizimit me uje:

☐ Po ☐ Jo

Nqs pergjigja juaj eshte jo, ju lutem listoni nivele te tjera institucionale te rendesishme:

1. Shoqata e Ujesjelles Kanalizime te Shqiperise
2. OJF
3. Ndermarjet UK ne vetvete

A ka korniza (marveshje, MoA etj) qe jane te rendesishme per sistemet e furnizimit me uje rajonal ose nderkufitar me te cilat ju jeni te njohur ne vendin tuaj?


☐ Po ☐ Jo

Nqs pergjigja juaj eshte po, ju lutem siguroni titujt:

Cilat jane temat me te rendesishme qe ju doni me shume informacion ne lidhje me sistemit e furnizimit me uje rajonal ose nderkufitar?

1. Menaxhimi i integruar i burimeve ujore
2. Rajonalizimi i UK

PYETESOR MBI MENAXHIMIN E BURIMEVE UJORE NDERKUFITAR DHE MANAXHIMIN E SITEMIT TE FURNIZIMIT ME UJE TE PIJSHEM

Emer: Mbiemer: Institucioni/ Organizata: (Nqs deshironi te mbeteni anonim mos e plotesoni kete rresht) Firma:	Agron Gega Sh. A. Llyesjettës Kanalizime Lirbachel 
Misioni ose qellimi i Institucioni/ Organizates ku ju punoni: <input checked="" type="checkbox"/> Furnizim me Uje <input type="checkbox"/> Autoritet <input type="checkbox"/> Institut Kerkimor <input type="checkbox"/> Shoqate <input type="checkbox"/> tjeter (specifikoje)	
Ne cilin sector ushtrohen aktivitetet tua? <input checked="" type="checkbox"/> uje <input type="checkbox"/> agrikulture <input type="checkbox"/> edukim/pune kerkimore <input type="checkbox"/> bashkeveprim nderkombetar <input type="checkbox"/> financiar/ legjislativ <input type="checkbox"/> tjeter (specifikoje),	
Ne cfare niveli hapsinore pasqyrohen me mire aktivitetet dhe detyrat tua? <input type="checkbox"/> Lokale <input checked="" type="checkbox"/> Rajonale <input type="checkbox"/> Kombetare <input type="checkbox"/> Nderkombetare <input type="checkbox"/> tjeter (specifikoje),:	
Cilat jane ceshtjet dhe problematikat kryesore ne lidhje me furnizimin me uje? (Renditini ne shkallen 1-5 ku: 1 me e rendesishmja , 5 me pak e rendesishmja, nqs eshte e mundur caktoni te njejten shkalles per dy problematikat kryesore.) <input checked="" type="checkbox"/> Humbjet <input type="checkbox"/> Sasia <input type="checkbox"/> Cilesia <input checked="" type="checkbox"/> Tarifat e ujit <input checked="" type="checkbox"/> Luhatjet sezonale <input type="checkbox"/> Politikat dhe legjislacioni <input type="checkbox"/> Kapacitete njerezore <input checked="" type="checkbox"/> Mungesa e fondeve <input checked="" type="checkbox"/> Infrastruktura <input type="checkbox"/> Ndryshimet klimaterike <input type="checkbox"/> Mungesa e bashkepunimit <input type="checkbox"/> tjeter (specifikoje):	
Cilat jane hapat dhe aktivitetet me te rendesishme qe do te permiresonin furnizimin me uje? Reduktimi i humbjeve, ndertimi i njetit, rritja e mbulimit me shpallim, rritja e nivelit te arketimit	

A mendoni se disa ceshtje ndersektoriale mund te zgjidhen me:

(Renditini ne shkallen 1-5 ku: 1 me e rendesishmja , 5 me pak e rendesishmja, nqs eshte e mundur caktoni te njejten shkalle per dy problematikat kryesore.)

- ☐ Politika qe do te trajtonin pjesen me te madhe te problematikave,
- ☒ Politika te vecanta qe do te trajtonin pjesen me te madhe te problematikave,
- ☒ Bashkepunim me i mire ndermjet sektoreve te ndryshem.
- ☒ Bashkepunim me i mire ndermjet autoriteteve lokale dhe kombetare
- ☒ Me shume burime financiare
- ☒ Tarifat e ujit
- ☐ tjeter (specifikoje),

Permendi 3 aktoret/veprimet me te rendesishme per permiresimin e furnizimit me uje:

1. Bashkepunim institucional.
2. Pushteti vendor /lokal.
3. Pushteti qendror.

P. V
P. Q
K. MB

Cilat jane veprimet qe insitucioni/organizata juaj mund te ndermarr per te permiresuar furnizimin me uje dhe te kontribuoj ne qendrueshmerin e tij?

- Hiac mbajtje e ri jetit eksistues,
- Nolevini, lidhjeve ilegale.

A mendini se vetem aktivitetet shteterore kontribuojne ne permiresimin e furnizimit me uje:

☐ Po ☒ Jo

Nqs pergjigja juaj eshte jo, ju lutem listoni nivele te tjera institucionale te rendesishme:

Aktivitetet private, bizneset lokale.

A ka korniza (marveshje, MoA etj) qe jane te rendesishme per sistemet e furnizimit me uje rajonal ose nderkufitar me te cilat ju jeni te njohur ne vendin tuaj?

☐ Po ☒ Jo

Nqs pergjigja juaj eshte po, ju lutem siguroni titujt:

Cilat jane temat me te rendesishme qe ju doni me shume informacion ne lidhje me sistemit e furnizimit me uje rajonal ose nderkufitar?

- Menexhimi rajonal i furnizimit me uje te pijshem
- Menexhimi rajonal i begunit dhe traktimit te ujeve te ndotura
- Politikot, procedurat menexhenciale, teknike rajonale.

QUESTIONNAIRE ON CROSS BORDER /REGIONAL WATER RESOURCES MANAGEMENT AND WATER SUPPLY SYSTEMS

Name:	Viola Saliaga
Surname:	
Institution/ Organization: (If you wish to remain anonymous, please do not fill)	Ministry of Environment
Signature:	<i>[Signature]</i>

Your Institution/ Organization mission -main scope of the work:

☐ Water supply ☒ Authority ☐ Research Organization ☐ Association
☐ Other (please specify)

In which sector would you locate your activities?

☐ water ☐ agricultural ☐ education/research
☐ international cooperation ☐ financial/ legislative ☒ other, namely: *Environment*

What spatial scale reflects the best your activities and tasks?

☐ Local ☐ regional ☒ national
☐ international ☐ other, namely :

What are the main water supply issues/ problems?
(Please rank them: 1 the most significant , 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

☒ Losses ☐ Quantity ☒ Quality ☒ Water tariffs
☒ Seasonal fluctuations ☐ Policies & legislation framework ☒ Capacities
☐ Lack of funding ☒ Infrastructure ☐ Climate change ☐ Weak Cooperation
☐ Other, namely :

What are the most important steps and activities that would improve water supply?

*Improve the infrastructure on water supply, specifically at rural areas. Investments on water treatment and disinfection, excluding the use of chlorine.
Improve the water metering process, installing new meters (electronic).*

Do you think that some cross-cutting issues can be solved by:

(Please rank them: 1 the most significant, 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

- ☒ 5 Policy that would address the majority of issues
- ☐ Separate policies that would address the majority of issues
- ☒ 3 Better cooperation among different sectors
- ☒ 2 Better cooperation among local and national authorities
- ☒ 7 More financial resources
- ☐ 4 Water tariffs
- ☐ Other, namely :

Please list the 3 most significant actors/ actions for improved water supply:

Infrastructure → Ministry of Transport
Quality → -11- of Health, M. of Environment
Financial Resources → -12- of Finance

What are the actions that your institution/ organization might take to improve water supply and contribute to its sustainability?

Enforce legal framework in cooperation with other line institutions.

Do you think that only state activities contribute to improved water supply:

☐ YES ☒ No

If the answer is NO please list other institutional levels of significance:

Local Governments, Civil Society, Private entities, Universities,

Are there legislative frameworks (treaties, agreements, MoA, etc.) that are significant for cross-border/ regional water supply systems you are familiar with in your country:

☐ YES ☒ No

If the answer is yes, please provide the title

What are the most important topics that you would like to become more familiar regarding to cross- border /regional water supply systems?

Regional Cooperation (cross-border) on water quality improvement.

PYETESOR MBI MENAXHIMIN E BURIMEVE UJORE NDERKUFITAR DHE MANAXHIMIN E SITEMIT TE FURNIZIMIT ME UJE TE PIJSHEM

Emer: Mbiemer: Institucioni/ Organizata: <i>(Nqs deshironi te mbeten anonim mos e plotesoni kete rresht)</i> Firma:	<div style="border: 1px solid black; height: 20px; margin-bottom: 2px;"></div> <div style="border: 1px solid black; height: 20px; margin-bottom: 2px;"></div> <div style="border: 1px solid black; height: 20px; margin-bottom: 2px;">UJESJELLES KANALIZIME SH.A POGRADEC</div> <div style="border: 1px solid black; height: 20px;"></div>
Misioni ose qellimi i Institucioni/ Organizates ku ju punoni: <input checked="" type="checkbox"/> Furnizim me Uje <input type="checkbox"/> Autoritet <input type="checkbox"/> Institut Kerkimor <input type="checkbox"/> Shoqate <input type="checkbox"/> tjeter (specifikoje)	
Ne cilin sector ushtrohen aktivitetet tuaja? <input checked="" type="checkbox"/> uje <input type="checkbox"/> agrikulture <input type="checkbox"/> edukim/pune kerkimore <input type="checkbox"/> bashkeveprim nderkombetar <input type="checkbox"/> financiar/ legjislativ <input type="checkbox"/> tjeter (specifikoje),	
Ne cfare niveli hapsinore pasqyrohen me mire aktivitetet dhe detyrat tuaja tuaja? <input type="checkbox"/> Lokale <input checked="" type="checkbox"/> Rajonale <input type="checkbox"/> Kombetare <input type="checkbox"/> Nderkombetare <input type="checkbox"/> tjeter (specifikoje),:	
Cilat jane ceshtjet dhe problematikat kryesore ne lidhje me furnizimin me uje? (Renditini ne shkallen 1-5 ku: 1 me e rendesishmja , 5 me pak e rendesishmja, nqs eshte e mundur caktoni te njejten shkalle per dy problematikat kryesore.) 2 Humbjet <input type="checkbox"/> Sasia 1 Cilesia <input type="checkbox"/> Tarifat e ujit <input type="checkbox"/> Luhatjet sezonale 3 Politikat dhe legjislacioni 5 Kapacitete njerezore 4 Mungesa e fondeve <input type="checkbox"/> Infrastruktura <input type="checkbox"/> Ndryshimet klimaterike <input type="checkbox"/> Mungesa e bashkepunimit <input type="checkbox"/> tjeter (specifikoje):	
Cilat jane hapat dhe aktivitetet me te rendesishme qe do te permiresonin furnizimin me uje? ULJA E HUMBJEVE MATJA E UJIT REDUKTIMI DHE MONITORIMI I PRESIONIT NDARJA E SISTEMIT NE ZONA SHERBIMI	

A mendoni se disa ceshtje ndersektoriale mund te zgjidhen me:

(Renditini ne shkallen 1-5 ku: 1 me e rendesishmja , 5 me pak e rendesishmja, nqs eshte e mundur caktoni te njejten shkalle per dy problematikat kryesore.)

- ☐ Politika qe do te trajtonin pjesen me te madhe te problematikave,
- 5 Politika te vecanta qe do te trajtonin pjesen me te madhe te problematikave,
- 4 Bashkepunim me i mire ndermjet sektoreve te ndryshem.
- 3 Bashkepunim me i mire ndermjet autoriteteve lokale dhe kombetare
- 1 Me shume burime financiare
- 2 Tarifat e ujit
- ☐ tjeter (specifikoje),

Permendi 3 aktoret/veprimet me te rendesishme per permiresimin e furnizimit me uje:

Stafi
Tarifat
Investime

Cilat jane veprimet qe insitucioni/organizata juaj mund te ndermarr per te permiresuar furnizimin me uje dhe te kontribuoj ne qendrueshmerin e tij?

Ulja e % NRW per te dyja natyrat (reale dhe komerciale)

A mendini se vetem aktivitetet shteterore kontribuojne ne permiresimin e furnizimit me uje:

X Po ☐ Jo

Nqs pergjigja juaj eshte jo, ju lutem listoni nivele te tjera institucionale te rendesishme:

A ka korniza (marveshje, MoA etj) qe jane te rendesishme per sistemet e furnizimit me uje rajonal ose nderkufitar me te cilat ju jeni te njohur ne vendin tuaj?

X Po ☐ Jo

Nqs pergjigja juaj eshte po, ju lutem siguroni titujt:

“MBROJTJA MJEDISORE E LIQENIT TE OHRIT”

Cilat jane temat me te rendesishme qe ju doni me shume informacion ne lidhje me sistemit e furnizimit me uje rajonal ose nderkufitar?

ZBULIMIN E RRJEDHJEVE

PYETESOR MBI MENAXHIMIN E BURIMEVE UJORE NDERKUFITAR DHE MANAXHIMIN E SITEMIT TE FURNIZIMIT ME UJE TE PIJSHEM

Emer: Mbiemer: Institucioni/ Organizata: (Nqs deshironi te mbeten anonim mos e plotesoni kete rresht) Firma:	<div style="border-bottom: 1px solid black; padding-bottom: 2px;">shpresa</div> <div style="border-bottom: 1px solid black; padding-bottom: 2px;">Kodra</div> <div style="border-bottom: 1px solid black; padding-bottom: 2px;">Sh.a. pjesjetelle - komunalizime qytet</div> <div style="border-bottom: 1px solid black; padding-bottom: 2px;">Shkodër</div>
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Misioni ose qellimi i Institucioni/ Organizates ku ju punoni:

- ☒ Furnizim me Uje
 ☐ Autoritet
 ☐ Institut Kerkimor
 ☐ Shoqate
☐ tjeter (specifikoje)

Ne cilin sector ushtrohen aktivitetet tua?

- ☒ uje
 ☐ agrikulture
 ☐ edukim/pune kerkimore
☐ bashkeveprim nderkombetar
☐ financiar/ legjislativ
☐ tjeter (specifikoje),

Ne cfare niveli hapsinore pasqyrohen me mire aktivitetet dhe detyrat tua?

- ☒ Lokale
 ☐ Rajonale
 ☐ Kombetare
☐ Nderkombetare
☐ tjeter (specifikoje),:

Cilat jane ceshtjet dhe problematikat kryesore ne lidhje me furnizimin me uje?
 (Renditini ne shkallen 1-5 ku: 1 me e rendesishmja , 5 me pak e rendesishmja, nqs
 eshte e mundur caktoni te njejtën shkalle per dy problematikat kryesore.)

- ☒ Humbjet
 ☐ Sasia
 ☐ Cilesia
 ☐ Tarifat e ujit
☐ Luhatjet sezonale
☐ Politikat dhe legjislacioni
☐ Kapacitete njerezore
☐ Mungesa e fondeve
☒ Infrastruktura
☐ Ndryshimet klimaterike
☐ Mungesa e bashkepunimit
☐ tjeter (specifikoje):

Cilat jane hapat dhe aktivitetet me te rendesishme qe do te permiresonin furnizimin me uje?

- Nderërtimi i një sistemi të ri furnizimi me ujë për
 komunën Rrethina për një mënyrë të pajisur me
 furnizim me ujë nga ndërkufjet individuale në tubat
 kryesor të transmetimit nga Stacioni - Rrethina shpesh ndalet.
 • Ky investim do të mundësojë zbritjen e 40% të humbjeve
 • zbritjen e 40% të fakturës energjetike elektrike
 • Permiresim furnizimi me ujë të konsumatorit klient
 i UKS.

A mendoni se disa ceshtje ndersëktoriale mund të zgjidhen me:

(Renditini në shkallën 1-5 ku: 1 me e rëndësishmja, 5 me pak e rëndësishmja, nqs është e mundur caktoni të njëjten shkallë për dy problematikat kryesore.)

- ☒ Politika që do të trajtonin pjesën më të madhe të problematikave,
- ☐ Politika të vecanta që do të trajtonin pjesën më të madhe të problematikave,
- ☐ Bashkëpunim me i mire ndërmjet sektoreve të ndryshëm.
- ☐ Bashkëpunim me i mire ndërmjet autoriteteve lokale dhe kombëtare
- ☒ Me shumë burime financiare
- ☐ Tarifat e ujit
- ☐ tjetër (specifikojë),

Permendi 3 aktoret/veprimet më të rëndësishme për permiresimin e furnizimit me ujë:

- shërbimet e komunitet Rrethina që uks në ndërtim sistemit të ri
- zbrifja e komunitet të energjisë 24h/kW
- Rehabilitimi i rrjetit shpërndarës, katin tubacionesh për rrjet publikë

Cilat janë veprimet që insitucioni/organizata juaj mund të ndermarr për të permiresuar furnizimin me ujë dhe të kontribuoj në qëndrueshmërinë e tij?

Pa mbështetjen e Qeverisë në vendim marrje dhe financime, Nollësmonja vetëm nuk mund të jetë e suksesshme. E megjithatë E lehtë është të përcaktohet

A mendini se vetëm aktivitetet shtetërore kontribuojnë në permiresimin e furnizimit me ujë:

- ☒ Po ☐ Jo Fugimëshi dhe në mënyrë performanciale
- Nqs përgjigja juaj është jo, ju lutem listoni nivele të tjera institucionale të rëndësishme:

A ka korniza (marveshje, MoA etj) që janë të rëndësishme për sistemet e furnizimit me ujë rajonal ose nderkufitar me të cilat ju jeni të njohur në vendin tuaj?

- ☒ Po ☐ Jo

Nqs përgjigja juaj është po, ju lutem siguroni titujt:

keçi informacion se ligjëllëri Fshot Shkodër dhe ligjëllëri Malësia e Madhe janë bashkuar në një ligjëllëri Rajonale.

Cilat janë temat më të rëndësishme që ju doni më shumë informacion në lidhje me sistemit e furnizimit me ujë rajonal ose nderkufitar?

- Në aspektin teknik si konceptet e një ligjëllëri Rajonale? A ka lloje sistemesë me furnizim të dy anësve sipas

meqatave

A do kenë subvencionim nga shteti për ligjëllësit e vegjël me njëqindëshe janë me humbje ekonomike.

PYETESOR MBI MENAXHIMIN E BURIMEVE UJORE **NDERKUFITAR DHE MANAXHIMIN E SITEMIT TE** **FURNIZIMIT ME UJE TE PIJSHEM**



Let's grow up together
 Adriaatic IPA
 Cross-Border Cooperation (2007-2013)



Emër:	
Mbiemer:	
Institucion/ Organizata:	
(Nqs deshironi te mheten! anonim mos e plotesoni kete rresht)	
Firma:	

Misioni use qellimi i Istitucionit/ Organizates ku ju punoni:

- ☒ Furnizim me Uje ☐ Autoritet ☐ Institut Kerkimor ☐ Shogate
☒ tjeter (specifikoje) *LARGIMI , UJETAJE TE NDOTUR*

Ne cilin sector ushtrohen aktivitet tuaja?

- ☒ uje ☐ agrikulture ☐ edukim/pune kerkimore
☐ bashkeveprim nderkombetar ☐ financiar/ legjislativ ☐ tjeter (specifikoje),

Ne cfare niveli hapsinore pasqyrohen me mire aktivitetet dhe detyrat tuaja tuaja?

- ☒ Lokale ☐ Rajonale ☐ Kombetare
☐ Nderkombetare ☐ tjeter (specifikoje),

Cilat jane ceshyet dhe problematikat kryesore ne lidhje me furnizimin me uje?
 (Renditini ne shkalen 1-5 ku: 1 me e rendesishmja , 5 me pak e rendesishmja, nqs
 cshte e mundur caktoni te njeften shkalle per dy problematikat kryesore.)

- ☒ Humbjet ☒ Sasia ☒ Cilesia ☒ Tarifat e ujit
☒ Luhatjet sezonale ☒ Politikat dhe legjislatiioni ☒ Kapacitete njerezore
☒ Mungesa e fondeve ☒ Infrastruktura ☒ Ndryshimet klimaterike
☒ Mungesa e bashkepunimit ☒ tjeter (specifikoje):

Cilat jane hapat dhe aktivitetet me te rendesishme qe do te permiitresonin furnizimin me uje?

- *PERMISIMI , ELIZIT TE BASHKESHEM TE FURNIZIMIT.*
 - *Ndërtimi , vepave (investicive) me 54 me pak kosto.*

A mendoni se disa cështje ndersëktoriale mund të zgjidhen me:
(Renditni në shkallën 1-5 ku: 1 me e rëndësishmja, 5 me pak e rëndësishmja, nqs është e mundur caktoni të njëjten shkallë për dy problematikat kryesore.)

- ☒ 4 Politika që do të trajtonin pjesën me të madhe të problematikave,
- ☒ 3 Politika të vecanta që do të trajtonin pjesën me të madhe të problematikave,
- ☒ 5 Bashkëpunim me i mire ndërmjet sektorëve të ndryshëm.
- ☒ 5 Bashkëpunim me i mire ndërmjet autoriteteve lokale dhe kombëtare
- ☒ 2 Me shume burime financiare
- ☒ 1 Tarifat e ujit
- ☐ Tjeter (specifikoje),

Permendi 3 aktore/veprimet me të rëndësishme për permiresimin e furnizimit me ujë:

- CILSIA E UJIT
- KONT E FURNIZIMIT
- CILMINIMI I DIFERENC.

Cilat janë veprimet që insitucioni/organizata juaj mund të ndermarr për të permiresuar furnizimin me ujë dhe të kontribuoj ne gendrueshmerin e tij?

- KALITA E NIVELIT TE FURNIZIMIT
- KALITA E AKTIVITETE
- KALITA E FURNIZIMEVE

A mendini se vetem aktivitetet shtetërore kontribuojnë ne permiresimin e furnizimit me ujë:
☒ Po ☐ Jo


A ka korniza (marveshje, MoA etj) që janë të rëndësishme për sistemet e furnizimit me ujë rajonal ose nderkufitar me të cilat ju jeni të njohur ne vendin tuaj?
☒ Po ☐ Jo

Nqs pergjigja juaj është po, ju lutem siguronit titujt:

Cilat janë temat me të rëndësishme që ju doni me shume information ne lidhje me sistemit e furnizimit me ujë rajonal ose nderkufitar?

INFORMATION për permiresimin e furnizimit me ujë
SHË NE BAZENET UJORE NËN KUFITARE.

QUESTIONNAIRE ON CROSS BORDER /REGIONAL WATER RESOURCES MANAGEMENT AND WATER SUPPLY SYSTEMS

Name:	Viola Sellosi
Surname:	Tirana Water Supply and Sewerage Utility
Institution/ Organization: (If you wish to remain anonymous, please do not fill)	
Signature:	

Your Institution/ Organization mission -main scope of the work:

☒ Water supply ☐ Authority ☐ Research Organization ☐ Association
☐ Other (please specify)

In which sector would you locate your activities?

☒ water ☐ agricultural ☐ education/research
☐ international cooperation ☐ financial/ legislative ☐ other, namely :

What spatial scale reflects the best your activities and tasks?

☐ Local ☒ regional ☐ national
☐ international ☐ other, namely :

What are the main water supply issues/ problems?
(Please rank them: 1 the most significant , 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

☒ Losses ☒ Quantity ☒ Quality ☒ Water tariffs
☒ Seasonal fluctuations ☒ Policies & legislation framework ☒ Capacities
☒ Lack of funding ☒ Infrastructure ☒ Climate change ☒ Weak Cooperation
☐ Other, namely :

What are the most important steps and activities that would improve water supply?

- Reduction of technical and administrative water losses
 - Capacity building
 - Better management and organization of the WSS utilities

Do you think that some cross-cutting issues can be solved by:

(Please rank them: 1 the most significant , 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

- ☒ 3 Policy that would address the majority of issues
- ☒ 2 Separate policies that would address the majority of issues
- ☒ 1 Better cooperation among different sectors
- ☒ 2 Better cooperation among local and national authorities
- ☒ 1 More financial resources
- ☒ 4 Water tariffs
- ☐ Other, namely :

Please list the 3 most significant actors/ actions for improved water supply:

- Reduction of the water losses.
- Increase of the capacity buildings event and trainings
- Better management and organization of the WSS utilities

What are the actions that your institution/ organization might take to improve water supply and contribute to its sustainability?

- Decreasing the water losses by ~~it~~ increasing the metering level and eliminating the illegal connections
- Better management and administration of the organization.
- Increasing the water tariff collection.

Do you think that only state activities contribute to improved water supply:

☐ YES ☒ No

If the answer is NO please list other institutional levels of significance:

- Donors
- NGB
- Private companies

Are there legislative frameworks (treaties, agreements, MoA, etc.) that are significant for cross-border/ regional water supply systems you are familiar with in your country:

☐ YES ☐ No

If the answer is yes, please provide the title

UNECE convention on transboundary water.

What are the most important topics that you would like to become more familiar regarding to cross- border /regional water supply systems?

- Management and policies for shared water sources
- Methodologies for using water from neighboring countries

PYETESOR MBI MENAXHIMIN E BURIMEVE UJORE NDERKUFITAR DHE MANAXHIMIN E SITEMIT TE FURNIZIMIT ME UJE TE PIJSHEM

Emer: Mbiemer: Institucioni/ Organizata: (Nqs deshironi te mbeten anonim mos e platesoni kete rresht) Firma:	<div style="text-align: center;">KOL</div> <div style="text-align: center;">NDOKAJ</div> <div style="text-align: center;">NO. UJESJELLESIT VAU-DEJES</div> <div style="text-align: center;">  </div>
Misioni ose qellimi i Institucioni/ Organizates ku ju punoni:	
<input checked="" type="checkbox"/> Furnizim me Uje <input type="checkbox"/> Autoritet <input type="checkbox"/> Institut Kerkimor <input type="checkbox"/> Shoqate <input type="checkbox"/> tjeter (specifikoje)	
Ne cilin sektor ushtrohen aktivitetet tuaja?	
<input checked="" type="checkbox"/> uje <input type="checkbox"/> agrikulture <input type="checkbox"/> edukim/pune kerkimore <input type="checkbox"/> bashkeveprim nderkombetar <input type="checkbox"/> financiar/ legjislativ <input type="checkbox"/> tjeter (specifikoje),	
Ne cfare niveli hapsinore pasqyrohen me mire aktivitetet dhe detyrat tuaja tuaja?	
<input checked="" type="checkbox"/> Lokale <input type="checkbox"/> Rajonale <input type="checkbox"/> Kombetare <input type="checkbox"/> Nderkombetare <input type="checkbox"/> tjeter (specifikoje),:	
Cilat jane ceshtjet dhe problematikat kryesore ne lidhje me furnizimin me uje? (Renditini ne shkallen 1-5 ku: 1 me e rendesishmja, 5 me pak e rendesishmja, nqs eshte e mundur caktoni te njejten shkalles per dy problematikat kryesore.)	
<div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input checked="" type="checkbox"/> Humbjet <input checked="" type="checkbox"/> Sasia <input checked="" type="checkbox"/> Cilesia <input checked="" type="checkbox"/> Tarifat e ujit </div> <div style="width: 50%;"> <input checked="" type="checkbox"/> Luhatjet sezonale <input checked="" type="checkbox"/> Politikat dhe legjislacioni <input checked="" type="checkbox"/> Kapacitete njerezore </div> <div style="width: 50%;"> <input checked="" type="checkbox"/> Mungesa e fondeve <input checked="" type="checkbox"/> Infrastruktura <input checked="" type="checkbox"/> Ndryshimet klimaterike </div> <div style="width: 50%;"> <input checked="" type="checkbox"/> Mungesa e bashkepunimit <input type="checkbox"/> tjeter (specifikoje): </div> </div>	
Cilat jane hapat dhe aktivitetet me te rendesishme qe do te permiresonin furnizimin me uje?	
<div style="border: 1px solid black; padding: 5px;"> <ul style="list-style-type: none"> - Vendasja e matësave inteligjent (qe permireson arketimet) - Rikonstruksion i rrjetit ne tërësi. (primar + sekondar) - Rikonstruksion i depove dhe rritje e kapacitetit. - Financime për projekte per gjithë territorin e bashkisë (pasi nuk mbulohen të gjitha Whatrat me ujesjellës-kanalizime) </div>	

Bashkisë (pasi nuk mbulohen të gjitha Whatrat me
ujesjellës-kanalizime)

A mendoni se disa ceshtje ndersektoriale mund te zgjidhen me:

(Renditini ne shkallen 1-5 ku: 1 me e rendesishmja , 5 me pak e rendesishmja, nqs eshte e mundur caktoni te njejten shkalle per dy problematikat kryesore.)

- ☒ 3 Politika qe do te trajtonin pjesen me te madhe te problematikave,
- ☒ 4 Politika te vecanta qe do te trajtonin pjesen me te madhe te problematikave,
- ☒ 2 Bashkepunim me i mire ndermjet sektoreve te ndryshem.
- ☒ 2 Bashkepunim me i mire ndermjet autoriteteve lokale dhe kombetare
- ☒ 4 Me shume burime financiare
- ☒ 3 Tarifat e ujit
- ☐ tjetër (specifikoje),

Permendi 3 aktoret/veprimet me te rendesishme per permiresimin e furnizimit me uje:

- *Permiresimi i infrastrukturës së rrjetit*
- *Vëndosja e matësve*
- *Rritja dhe permiresimi i kapaciteteve.*

Cilat jane veprimet qe insitucioni/organizata juaj mund te ndermarr per te permiresuar furnizimin me uje dhe te kontribuoj ne qendrueshmerin e tij?

- *Zvogëlimi i humbjeve nga ndërrryjet në rrjet.*
- *Rritjen e nivelit të qarkutimeve me mbelhtetjen e një taks force dhe organeve të pushtetit vendor.*

A mendini se vetem aktivitetet shteterore kontribuojne ne permiresimin e furnizimit me uje:

☒ Po ☐ Jo

Nqs pergjigja juaj eshte jo, ju lutem listoni nivele te tjera institucionale te rendesishme:

A ka korniza (marveshje, MoA etj) qe jane te rendesishme per sistemet e furnizimit me uje rajonal ose nderkufitar me te cilat ju jeni te njohur ne vendin tuaj?

☐ Po ☒ Jo

Nqs pergjigja juaj eshte po, ju lutem siguroni titujt:

Cilat jane temat me te rendesishme qe ju doni me shume informacion ne lidhje me sistemit e furnizimit me uje rajonal ose nderkufitar?

- *Angazhimi për projekte dhe masterplane për mbulimin e gjithë zonës së shërbimit.*

PYETESOR MBI MENAXHIMIN E BURIMEVE UJORE NDERKUFITAR DHE MANAXHIMIN E SITEMIT TE FURNIZIMIT ME UJE TE PIJSHEM

Emer: Mbiemer: Institucioni/ Organizata: <i>(Nqs deshironi te mbeten anonim mos e plotesoni kete rresht)</i> Firma:	<div style="border: 1px solid black; height: 30px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 30px; margin-bottom: 5px; text-align: center;"> <i>Udhetes Komunitare Vlore</i> </div> <div style="border: 1px solid black; height: 30px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 30px; margin-bottom: 5px;"></div>
Misioni ose qellimi i Institucioni/ Organizates ku ju punoni:	
<input checked="" type="checkbox"/> Furnizim me Uje <input type="checkbox"/> Autoritet <input type="checkbox"/> Institut Kerkimor <input type="checkbox"/> Shoqate <input type="checkbox"/> tjeter (specifikoje)	
Ne cilin sector ushtrohen aktivitetet tuaja?	
<input checked="" type="checkbox"/> uje <input type="checkbox"/> agrikulture <input type="checkbox"/> edukim/pune kerkimore <input type="checkbox"/> bashkeveprim nderkombetar <input type="checkbox"/> financiar/ legjislativ <input type="checkbox"/> tjeter (specifikoje),	
Ne cfare niveli hapsinore pasqyrohen me mire aktivitetet dhe detyrat tuaja tuaja?	
<input type="checkbox"/> Lokale <input checked="" type="checkbox"/> Rajonale <input type="checkbox"/> Kombetare <input type="checkbox"/> Nderkombetare <input type="checkbox"/> tjeter (specifikoje),:	
Cilat jane ceshtjet dhe problematikat kryesore ne lidhje me furnizimin me uje? (Renditini ne shkallen 1-5 ku: 1 me e rendesishmja , 5 me pak e rendesishmja, nqs eshte e mundur caktoni te njejten shkalle per dy problematikat kryesore.)	
<div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> 1 <input type="checkbox"/> Humbjet 4 <input type="checkbox"/> Sasia 3 <input type="checkbox"/> Cilesia 5 <input type="checkbox"/> Tarifat e ujit </div> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> 5 <input type="checkbox"/> Luhatjet sezonale 3 <input type="checkbox"/> Politikat dhe legjislacioni 2 <input type="checkbox"/> Kapacitete njerezore </div> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> 1 <input type="checkbox"/> Mungesa e fondeve 2 <input type="checkbox"/> Infrastruktura 5 <input type="checkbox"/> Ndryshimet klimaterike </div> <div style="display: flex; justify-content: space-between;"> 2 <input type="checkbox"/> Mungesa e bashkepunimit <input type="checkbox"/> tjeter (specifikoje): </div> </div> </div>	
Cilat jane hapat dhe aktivitetet me te rendesishme qe do te permiresonin furnizimin me uje?	
<div style="font-family: cursive;"> - Permiresimi i infrastrukturës - Reforme Legjislative - Reduktimi i humbjeve të ujit - Rritja e mbledhjes së të veshurave </div>	

A mendoni se disa ceshtje ndersektoriale mund te zgjidhen me:

(Renditini ne shkallen 1-5 ku: 1 me e rendesishmja , 5 me pak e rendesishmja, nqs eshte e mundur caktoni te njejten shkalle per dy problematikat kryesore.)

- 5 ☐ Politika qe do te trajtonin pjesen me te madhe te problematikave,
4 ☐ Politika te vecanta qe do te trajtonin pjesen me te madhe te problematikave,
2 ☐ Bashkepunim me i mire ndermjet sektoreve te ndryshem.
2 ☐ Bashkepunim me i mire ndermjet autoriteteve lokale dhe kombetare
1 ☐ Me shume burime financiare
4 ☐ Tarifat e ujit
☐ Tjeter (specifikoje),

Permendi 3 aktoret/veprimet me te rendesishme per permiresimin e furnizimit me uje:

- Menaxhim me i mire
- Me shume investime
- Reduktimi i humbjeve te ujit

Cilat jane veprimet qe insitucioni/organizata juaj mund te ndermarr per te permiresuar furnizimin me uje dhe te kontribuoj ne qendrueshmerin e tij?

- Permiresimi i sherbimit te furnizimit me uje
- Pajisja me qymatesa te ri
- Rritja e nivelit te arketimere

A mendini se vetem aktivitetet shteterore kontribuojne ne permiresimin e furnizimit me uje:

☒ Po ☐ Jo

Nqs pergjigja juaj eshte jo, ju lutem listoni nivele te tjera institucionale te rendesishme:

A ka korniza (marveshje, MoA etj) qe jane te rendesishme per sistemet e furnizimit me uje rajonal ose nderkufitar me te cilat ju jeni te njohur ne vendin tuaj?

☐ Po ☒ Jo

Nqs pergjigja juaj eshte po, ju lutem siguroni titujt:

Cilat jane temat me te rendesishme qe ju doni me shume informacion ne lidhje me sistemit e furnizimit me uje rajonal ose nderkufitar?

- Metodologjia per ne bashkepunim dhe menaxhim me te mire ne sistemet e furnizimit rajonal.

REPORTING ON
THE
STAKEHOLDERS
MEETING

11 June, 2014

Saranda
ALBANIA



Let's grow up together



DRINK ADRIA



The project is co-funded by the European Union,
Instrument for Pre-Accession Assistance

REPORTING ON THE STAKEHOLDERS MEETING

11 June, 2014

Saranda, Albania

The meeting organized in the south of Albania, gathered various Water Utility Stakeholders involved in the Water Sector in Albania, together with some selected institutions. The meeting had the following objectives:

- to identify the objectives and the outputs in Adriatic Region for Drinkadria Project;
- to assess the existing needs of cross border cooperation for the water sector in the Adriatic Region, from the perspective of the various stakeholders involved.
- to inform regarding the implementation of the project until the 3rd reporting period

The meeting aimed to:

- Bring together the different stakeholders offering national/regional and provide them with a space for exchanging their policy and strategy for the cross border water supply systems and water resource management;
- Carry out a “mapping use” of national-level for the cross border water supply systems and water resource management; (investigation and stock-taking of what exists already in the sector, in terms of projects, objectives, target group, format, methodology, curriculum, etc.);
- Check the stakeholders’ interest in developing a coherent strategy for the Capitalization Plan in a National level and see the reason of not replaying to the Questionnaire already send it to them;
- Provide the stakeholders with some expert input on qualitative, structural and other aspects for the WP4 and WP5;
- Negotiate the next steps for co-operation (concrete tasks, timeline), if relevant;

The initial objectives of the meeting were fully met. Although it would have been difficult for the organizers/FB11 to invite more participants (mainly for financial reasons), some participants regretted that the group was not more diverse from a stakeholder’s perspective. Anyway more than 20 participants were present. The meeting laid out the principle of partnerships and discusses their advantages and benefits of the Drinkadria project, identifying gaps and remedies, mutual interests and priorities, discussing the concept of partnership and noting the potential for links to other international partners.



REPORTING ON THE STAKEHOLDERS MEETING – Sarande 11 July 2014

Let's grow up together



DRINK ADRIA



The project is co-funded by the European Union,
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PYETESOR MBI MENAXHIMIN E BURIMEVE UJORE NDERKUFITAR DHE MANAXHIMIN E SITEMIT TE FURNIZIMIT ME UJE TE PIJSHEM

Emer: Mbiemer: Institucioni/ Organizata: (Nqs deshironi te mbeten anonim mos e plotesoni kete rresht) Firma:	<div style="border-bottom: 1px solid black; padding-bottom: 2px;">shpresa</div> <div style="border-bottom: 1px solid black; padding-bottom: 2px;">Kodra</div> <div style="border-bottom: 1px solid black; padding-bottom: 2px;">Sh.a. pjesjetelle - komunalizime qytet</div> <div style="border-bottom: 1px solid black; padding-bottom: 2px;">Shkodër</div>
---	--

Misioni ose qellimi i Institucioni/ Organizates ku ju punoni:

- ☒ Furnizim me Uje
 ☐ Autoritet
 ☐ Institut Kerkimor
 ☐ Shoqate
☐ tjeter (specifikoje)

Ne cilin sector ushtrohen aktivitetet tua?

- ☒ uje
 ☐ agrikulture
 ☐ edukim/pune kerkimore
☐ bashkeveprim nderkombetar
☐ financiar/ legjislativ
☐ tjeter (specifikoje),

Ne cfare niveli hapsinore pasqyrohen me mire aktivitetet dhe detyrat tua?

- ☒ Lokale
 ☐ Rajonale
 ☐ Kombetare
☐ Nderkombetare
☐ tjeter (specifikoje),:

Cilat jane ceshtjet dhe problematikat kryesore ne lidhje me furnizimin me uje?
 (Renditini ne shkallen 1-5 ku: 1 me e rendesishmja , 5 me pak e rendesishmja, nqs
 eshte e mundur caktoni te njejtën shkalle per dy problematikat kryesore.)

- ☒ Humbjet
 ☐ Sasia
 ☐ Cilesia
 ☐ Tarifat e ujit
☐ Luhatjet sezonale
☐ Politikat dhe legjislacioni
☐ Kapacitete njerezore
☐ Mungesa e fondeve
☒ Infrastruktura
☐ Ndryshimet klimaterike
☐ Mungesa e bashkepunimit
☐ tjeter (specifikoje):

Cilat jane hapat dhe aktivitetet me te rendesishme qe do te permiresonin furnizimin me uje?

- Nderërtimi i një sistemi të ri furnizimi me ujë për
 komunën Rrethina për një mënyrë të përpiluar me
 furnizim me ujë nga ndërkufjet individuale në tubat
 kryesor të transmetimit nga Stacioni - Rreth Shkupit ndalës.
 • Ky investim do të mundësojë zbritjen e 40% të humbjeve
 • zbritjen e 40% të fakturës energjetike elektrike
 • Permiresim furnizimi me ujë të konsumatorit klient
 i UKS.

A mendoni se disa ceshtje ndersëktoriale mund të zgjidhen me:

(Renditini në shkallën 1-5 ku: 1 me e rendesishmja, 5 me pak e rendesishmja, nqs eshte e mundur caktoni te njeiten shkalle per dy problematikat kryesore.)

- ☒ Politika qe do te trajtonin pjesen me te madhe te problematikave,
- ☐ Politika te vecanta qe do te trajtonin pjesen me te madhe te problematikave,
- ☐ Bashkepunim me i mire ndermjet sektoreve te ndryshem.
- ☐ Bashkepunim me i mire ndermjet autoriteteve lokale dhe kombetare
- ☒ Me shume burime financiare
- ☐ Tarifat e ujit
- ☐ tjeter (specifikoje),

Permendi 3 aktoret/veprimet me te rendesishme per permiresimin e furnizimit me uje:

- shkeputja e komunës Rrethina qe eks ne ndertim sistemi te ri
- zbrifja e komunit të energjisë 2ek/kw
- Rehabilitim rrethit shpirtorales, katim tubacionesh qe munda publike

Cilat jane veprimet qe insitucioni/organizata juaj mund te ndermarr per te permiresuar furnizimin me uje dhe te kontribuoj ne qendrueshmerin e tij?

Pa mbështetjen e Qeverisë ne vendim merrje dhe financiare, Nolemonja vetem nuk munda rrethim qote fotura Enegetik Elektrike ishte tepër eartë

A mendini se vetem aktivitetet shteterore kontribuojne ne permiresimin e furnizimit me uje:

- ☒ Po ☐ Jo Fugimisht dhe në mënyrë Performancore
- Nqs pergjigja juaj eshte jo, ju lutem listoni nivele te tjera institucionale te rendesishme:

A ka korniza (marveshje, MoA etj) qe jane te rendesishme per sistemet e furnizimit me uje rajonal ose nderkufitar me te cilat ju jeni te njohur ne vendin tuaj?

- ☒ Po ☐ Jo

Nqs pergjigja juaj eshte po, ju lutem siguroni titujt:

se keni informacione se rrethimi Fshot Shkodra dhe rrethimi Malësia e Madhe janë bashkuar në një rrethim Rajonal.

Cilat jane temat me te rendesishme qe ju doni me shume informacion ne lidhje me sistemit e furnizimit me uje rajonal ose nderkufitar?

- Në aspektin teknik si konceptohet një rrethim Rajonal? A ka lloje sistemesi me furnizim të dy anësve sipas

meqjave

A do keni subvencionim nga shteti pasi rrethimet e vegjel me rrethim meqjave janë me humbje ekonomike.

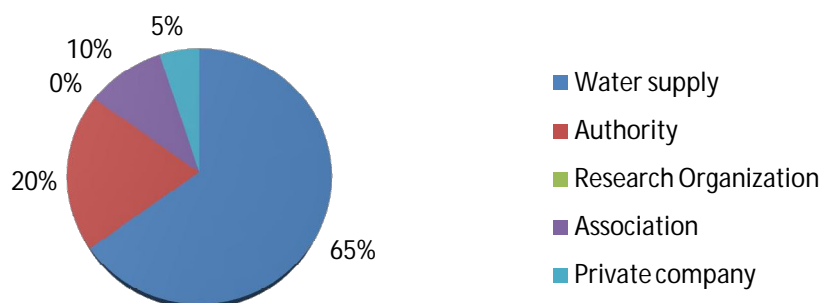
SUMMARY REPORT OF QUESTIONNAIRES FOR WORKING PACKAGE NR.3

In order to provide a comprehensive and representative opinion regarding the major issues on cross border /regional water resources management and water supply systems, SHUKALB surveyed different categories of water Stakeholders:

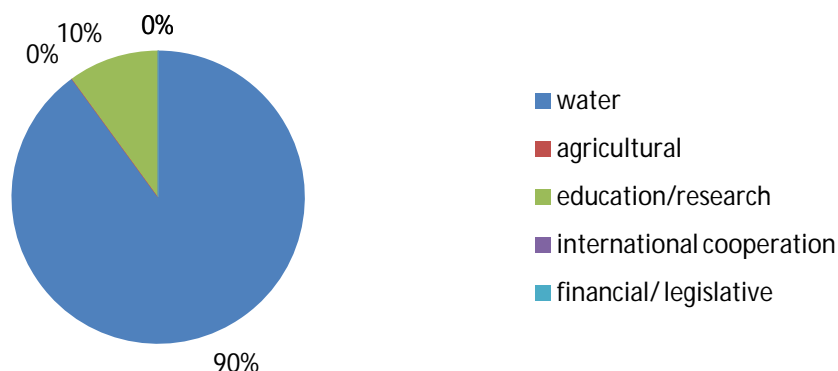
- National decision making institutions,
- Local decision making institutions,
- Water Supply and Sewerage Utilities
- Private companies
- Associations

From the total of 45 stakeholders invited to participate in the survey, only 20 of them filled the questionnaire (45 %).

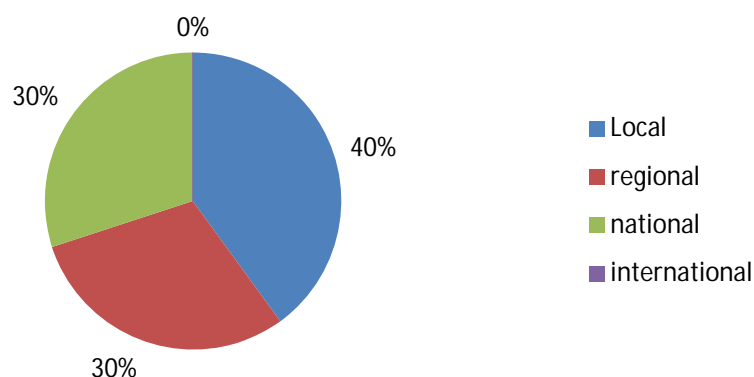
Question 1: 65% of questioned organizations has water supply service as they main scope of the work, for 20% of them their role was as authority in the water sector and only 15% were associations and private companies.



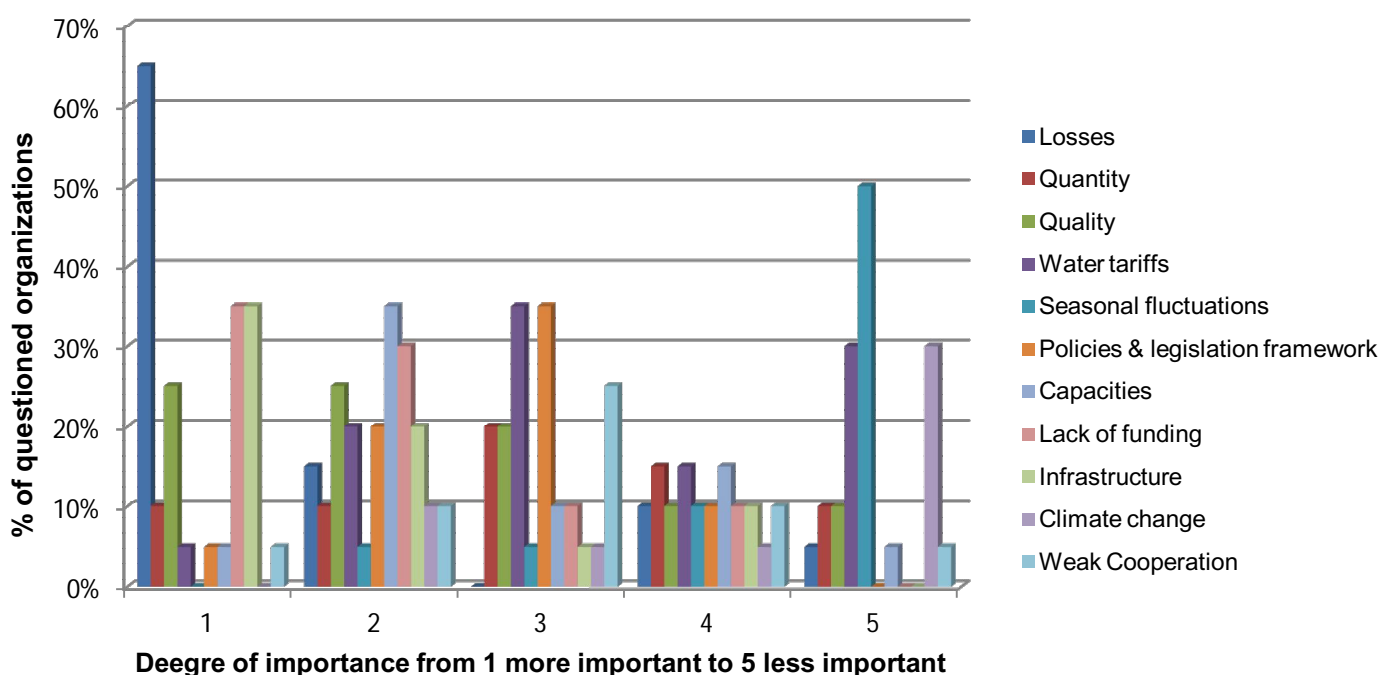
Question 2: For 90% of the questioned institutions, water is their main activity while 10% of them are education or research institutions.



Question 3: Most of questioned organizations, at about 40% operate in local level.



Question 4: As shown in the following graph the questioned organization has ranged as some of the most important issues in the water sector: water losses (65%), infrastructure (35%), lack of funding (35%) and quality (25%)

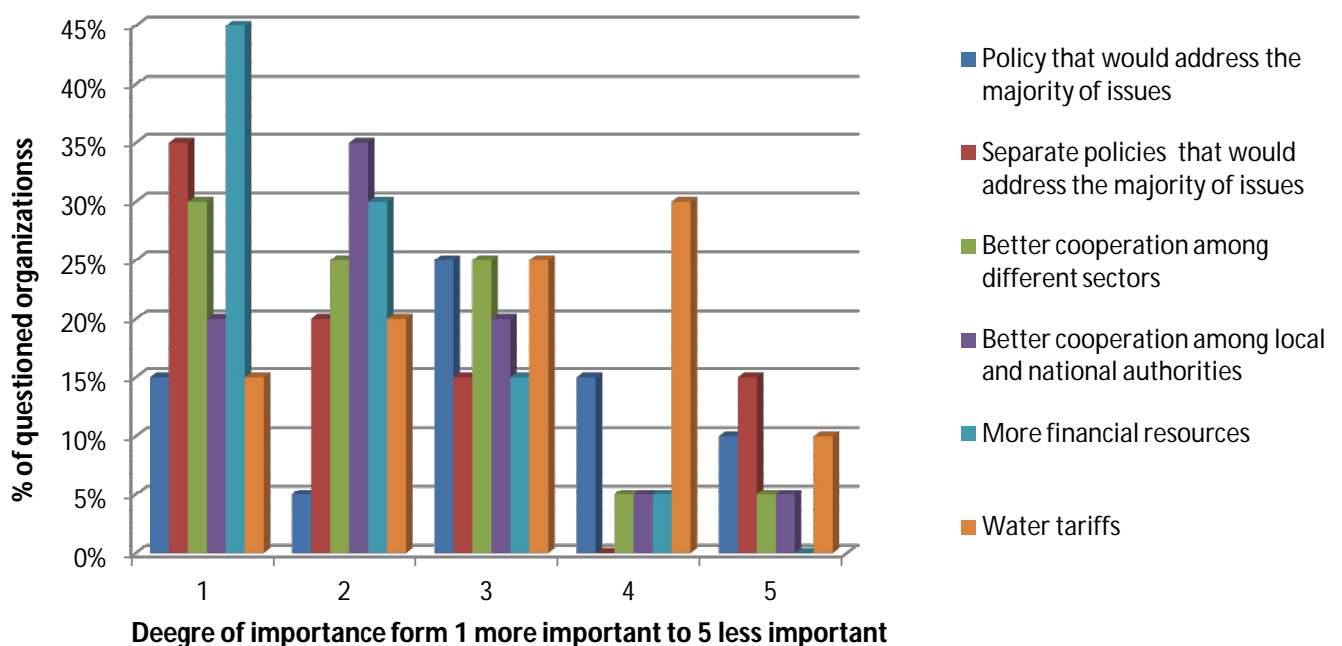


Question 5: Summarizing the responses of all the questioned organizations, the most important steps and activities that would improve the water supply are:

- Establishment of a specific law on water supply and sewerage service,
- Approval and implementation of the Master Plan in WSS Sector,
- Continue the regionalization process of WSS service as planned in the sector Strategy

- Increasing the capacity building of the Water Supply and Sewerage staff.
- Reduction of technical and administrative water losses
- Increase of the metering level in water production and consumption
- Increase the collection efficiency
- Better management for the reduction of services cost from the water companies
- Restoration or replacement of damage and aged water supply system
- Increase of Water Supply coverage
- Building cost effective water supply works
- Pressure monitoring
- Improvement of WSS utilities efficiency by computerization of all technical and administrative chains
- Increasing consumers awareness for wastage of water
- New investment in water treatment and disinfection excluding the use of chlorine
- Improvement of infrastructure through increase of investments

Question 6: As shown in the following graph the questioned organization has ranged as the best ways for solving some cross-cutting issues: more financial resources (45%), establishment of separate policies that would address the majority of issues (35%) and better cooperation among different sectors (32%)



Question 7: From the analysis of all the responses, the 3 most significant steps and activities that would improve the water supply are:

1. Improvement of the water supply network by replacing the aged pipelines and repairing all the breakdowns
2. Increase of the metering level, by installing new water meter in every water connection.
3. Reduction of administrative and technical water losses.

Question 8: Regarding the actions that questioned organizations are taking to improve water supply, their answers vary according to the role and main scope of work. Authority's current work is focusing on:

- Helping WS companies achieving financial sustainability through setting achievable performance
- Regulate services through tariff policies
- Enforce legal framework in cooperation with other line institutions
- Increase financial support for improving the infrastructure
- Leading the reform on the legislation

Water supply and sewerage utilities are taking actions on:

- Regular maintenance of the water supply distribution network
- Increase of the water supply quantity
- Increase of the water tariff collection
- Equipment with water meters
- Improvement of the existing water supply system
- Identification and elimination of illegal connection
- Providing a secure infrastructure for service delivery
- Reduction of water losses
- Providing sewage collection, treatment and disposal services to all water supply customers of the Company

While Associations and private companies are working with:

- Capacity building events and trainings for WSS personnel
- Equipment of WSS utilities with software for administration and management of utility
- Dissemination of information regarding water sector
- Implementation of projects in water sector.
- Awareness raising programs.

Question 9: Even that 47% of the surveyed organizations have confirmed that only the state activities contribute to improved water supply, 53% of them have identified as important factor that can contribute in this sector improvement also:

- Donors
- Private companies
- Associations
- Water Supply and Sewerage Utilities

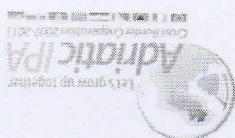
Question 10: 47% of the questions organizations confirmed that were familiar with some legislative frameworks that are significant for cross-border/ regional water supply systems, but only 4 of them named:

- Agreement for environmental protection of Ohrid Lake
- Agreement Between Albania and Greece on trans- boundary freshwater issues
- Barcelona Convention,
- Water Framework Directive,
- Environmental Impact Assessment for Trans-boundary Waters,
- Water Convention ,
- UNECE convention on Trans-boundary Water

Question 11: Some of the most important topics regarding cross-border/regional water supply system that the questioned organizations would like to be familiar with are:

- Licensing & Tariff regime
- Performance monitoring
- Consumer protection
- Regional management of the drinking water supply
- Regional management wastewater collection and treatment
- Regional policies and managerial procedures
- Information for detection and reduction of water losses
- Information for better management of the cross-border water basins
- How are perceived from technical point of view the regional water supply and sewerage utilities.
- Subsidies policies for regionalized water supply and sewerage utilities
- Better collaboration in the regional water supply systems
- Integrated water resource management
- Drinking water chlorination
- Regional cooperation on water quality improvement
- Methodologies of using water from neighboring countries
- Organization of the service provider and decision making within the provider
- Policies and Management
- Subsidies policies for regionalized water supply and sewerage utilities.
- How to be involved and apply for projects that cover all the service area

PYETESOR MBI MENAXHIMIN E BURIMEVE UJORE **NDERKUFITAR DHE MANAXHIMIN E SITEMIT TE** **FURNIZIMIT ME UJE TE PIJSHEM**



Emri:	
Mbimer:	
Institucion/ Organizata:	
(Nqs deshironi te mheten anonim mos e pletesoni kete rresht)	
Firma:	

Misioni ose qellimi i Istitucionit/ Organizates ku ju punoni:

☒ Furnizim me Uje ☐ Autoritet ☐ Institut Kerkimor ☐ Shogate
☒ tjeter (specifikoje) *LARGIMI I UJESAVE TE NDOTUR*

Ne cilin sektor ushtrohen aktivitetet tuaja?

☒ uje ☐ agrikulture ☐ edukim/pune kerkimore
☐ bashkeveprim nderkombetar ☐ financiar/ legjislativ ☐ tjeter (specifikoje),

Ne cfare niveli hapsinore pasqyrohen me mire aktivitetet dhe detyrat tuaja tuaja?

☒ Lokale ☐ Rajonale ☐ Kombetare
☐ Nderkombetare ☐ tjeter (specifikoje),

Cilat jane ceshyet dhe problematikat kryesore ne lidhje me furnizimin me uje? (Renditini ne shkalen 1-5 ku: 1 me e rendesishmja, 5 me pak e rendesishmja, nqs eshte e mundur caktoni te njejten shkalle per dy problematikat kryesore.)

☒ Humbjet ☒ Sasia ☒ Cilësia ☒ Tarifat e ujit
☒ Luhatjet sezonale ☒ Politikat dhe legjislacioni ☒ Kapacitete njerezore
☒ Mungesa e fondeve ☒ Infrastruktura ☒ Ndryshimet klimatike
☒ Mungesa e bashkepunimit ☒ tjeter (specifikoje):

Cilat jane hapat dhe aktivitetet me te rendesishme qe do te permiiresonin furnizimin me uje?

- *PERMIRSIMI I EKZISTENT TE BASHKESHEM TE FURNIZIMIT.*
 - *MBLAKIMI I UJESAVE (KONTROLLE) ME SHAKTE PAK KOSTO.*

A mendoni se disa cështje ndersëktoriale mund të zgjidhen me:
(Renditni në shkallën 1-5 ku: 1 me e rëndësishmja, 5 me pak e rëndësishmja, nqs është e mundur caktoni të njëjten shkallë për dy problematikat kryesore.)

- ☒ 4 Politika që do të trajtonin pjesën me të madhe të problematikave,
- ☒ 3 Politika të vecanta që do të trajtonin pjesën me të madhe të problematikave,
- ☒ 5 Bashkëpunim me i mire ndërmjet sektorëve të ndryshëm.
- ☒ 5 Bashkëpunim me i mire ndërmjet autoriteteve lokale dhe kombëtare
- ☒ 2 Me shume burime financiare
- ☒ 1 Tarifat e ujit
- ☐ Tjeter (specifikoje),

Permendi 3 aktore/veprimet me të rëndësishme për permiresimin e furnizimit me ujë:

- CILËSIA E UJIT
- KOSTO E FURNIZIMIT
- CËLIMINIMI I DIFERENCËVE.

Cilat janë veprimet që insitucioni/organizata juaj mund të ndermarr për të permiresuar furnizimin me ujë dhe të kontribuoj ne gendrueshmerin e tij?

- RËNDITJA E NIVELIT TË FURNIZIMIT
- RËNDITJA E AKTIVITETEVE
- RËNDITJA E FAKTORIALMEVE

A mendini se vetem aktivitetet shtetërore kontribuojnë ne permiresimin e furnizimit me ujë:
☒ Po ☐ Jo

Nqs pergjigja juaj është jo, ju lutem listoni nivele të tjera institucionale të rëndësishme:

A ka korniza (marveshje, MoA etj) që janë të rëndësishme për sistemet e furnizimit me ujë rajonal ose nderkufitar me të cilat ju jeni të njohur ne vendin tuaj?


☒ Po ☐ Jo

Nqs pergjigja juaj është po, ju lutem siguronit titujt:

Cilat janë temat me të rëndësishme që ju doni me shume information ne lidhje me sistemit e furnizimit me ujë rajonal ose nderkufitar?

INFORMATION për permiresimin e furnizimit me ujë
SHËNË NE BAZËN E UJËT NE KUFITARE.

QUESTIONNAIRE ON CROSS BORDER /REGIONAL WATER RESOURCES MANAGEMENT AND WATER SUPPLY SYSTEMS

Name:	Viola Sokosi
Surname:	
Institution/ Organization:	Tirana Water Supply and Sewerage Utility
(If you wish to remain anonymous, please do not fill)	
Signature:	

Your Institution/ Organization mission -main scope of the work:

☒ Water supply ☐ Authority ☐ Research Organization ☐ Association
☐ Other (please specify)

In which sector would you locate your activities?

☒ water ☐ agricultural ☐ education/research
☐ international cooperation ☐ financial/ legislative ☐ other, namely :

What spatial scale reflects the best your activities and tasks?

☐ Local ☒ regional ☐ national
☐ international ☐ other, namely :

What are the main water supply issues/ problems?
(Please rank them: 1 the most significant , 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

☒ Losses ☒ Quantity ☒ Quality ☒ Water tariffs
☒ Seasonal fluctuations ☒ Policies & legislation framework ☒ Capacities
☒ Lack of funding ☒ Infrastructure ☒ Climate change ☒ Weak Cooperation
☐ Other, namely :

What are the most important steps and activities that would improve water supply?

- Reduction of technical and administrative water losses
 - Capacity building
 - Better management and organization of the WSS utilities

Do you think that some cross-cutting issues can be solved by:

(Please rank them: 1 the most significant , 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

- ☒ 3 Policy that would address the majority of issues
- ☒ 2 Separate policies that would address the majority of issues
- ☒ 1 Better cooperation among different sectors
- ☒ 2 Better cooperation among local and national authorities
- ☒ 1 More financial resources
- ☒ 4 Water tariffs
- ☐ Other, namely :

Please list the 3 most significant actors/ actions for improved water supply:

- Reduction of the water losses.
- Increase of the capacity buildings event and trainings
- Better management and organization of the WSS utilities

What are the actions that your institution/ organization might take to improve water supply and contribute to its sustainability?

- Decreasing the water losses by ~~it~~ increasing the metering level and eliminating the illegal connections
- Better management and administration of the organization.
- Increasing the water tariff collection.

Do you think that only state activities contribute to improved water supply:

☐ YES ☒ No

If the answer is NO please list other institutional levels of significance:

- Donors
- NGB
- Private companies

Are there legislative frameworks (treaties, agreements, MoA, etc.) that are significant for cross-border/ regional water supply systems you are familiar with in your country:

☐ YES ☐ No

If the answer is yes, please provide the title

UNECE convention on transboundary water.

What are the most important topics that you would like to become more familiar regarding to cross- border /regional water supply systems?

- Management and policies for shared water sources
- Methodologies for using water from neighboring countries

PYETESOR MBI MENAXHIMIN E BURIMEVE UJORE NDERKUFITAR DHE MANAXHIMIN E SITEMIT TE FURNIZIMIT ME UJE TE PIJSHEM

Emer: Mbiemer: Institucioni/ Organizata: (Nqs deshironi te mbeten anonim mos e platesoni kete rresht) Firma:	<div style="text-align: center; font-family: cursive;">KOL</div> <div style="text-align: center; font-family: cursive;">NDOKAJ</div> <div style="text-align: center; font-family: cursive;">NO. LIJESJELLESIT VAU-DEJES</div> <div style="text-align: center; font-family: cursive;">  </div>
Misioni ose qellimi i Institucioni/ Organizates ku ju punoni:	
<input checked="" type="checkbox"/> Furnizim me Uje <input type="checkbox"/> Autoritet <input type="checkbox"/> Institut Kerkimor <input type="checkbox"/> Shoqate <input type="checkbox"/> tjeter (specifikoje)	
Ne cilin sector ushtrohen aktivitetet tuaja?	
<input checked="" type="checkbox"/> uje <input type="checkbox"/> agrikulture <input type="checkbox"/> edukim/pune kerkimore <input type="checkbox"/> bashkeveprim nderkombetar <input type="checkbox"/> financiar/ legjislativ <input type="checkbox"/> tjeter (specifikoje),	
Ne cfare niveli hapsinore pasqyrohen me mire aktivitetet dhe detyrat tuaja tuaja?	
<input checked="" type="checkbox"/> Lokale <input type="checkbox"/> Rajonale <input type="checkbox"/> Kombetare <input type="checkbox"/> Nderkombetare <input type="checkbox"/> tjeter (specifikoje),:	
Cilat jane ceshtjet dhe problematikat kryesore ne lidhje me furnizimin me uje? (Renditini ne shkallen 1-5 ku: 1 me e rendesishmja, 5 me pak e rendesishmja, nqs eshte e mundur caktoni te njejten shkalles per dy problematikat kryesore.)	
<div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input checked="" type="checkbox"/> Humbjet <input checked="" type="checkbox"/> Sasia <input checked="" type="checkbox"/> Cilesia <input checked="" type="checkbox"/> Tarifat e ujit </div> <div style="width: 50%;"> <input checked="" type="checkbox"/> Luhatjet sezonale <input checked="" type="checkbox"/> Politikat dhe legjislacioni <input checked="" type="checkbox"/> Kapacitete njerezore </div> <div style="width: 50%;"> <input checked="" type="checkbox"/> Mungesa e fondeve <input checked="" type="checkbox"/> Infrastruktura <input checked="" type="checkbox"/> Ndryshimet klimaterike </div> <div style="width: 50%;"> <input checked="" type="checkbox"/> Mungesa e bashkepunimit <input type="checkbox"/> tjeter (specifikoje): </div> </div>	
Cilat jane hapat dhe aktivitetet me te rendesishme qe do te permiresonin furnizimin me uje?	
<div style="font-family: cursive;"> <ul style="list-style-type: none"> - Vendasja e materave inteligjent (qe permireson arketimet) - Rikonstruksion i rrjetit ne teresi. (primar + sekondar) - Rikonstruksion i depove dhe rritje e kapacitetit. - Financime per projekte per gjithë territorin e bashkise (pasi nuk mbulohen te gjitha whatrat me ujesjelles-kanalizime) </div>	

Bashkise (pasi nuk mbulohen te gjitha whatrat me ujesjelles-kanalizime)

A mendoni se disa ceshtje ndersektoriale mund te zgjidhen me:

(Renditini ne shkallen 1-5 ku: 1 me e rendesishmja, 5 me pak e rendesishmja, nqs eshte e mundur caktoni te njejten shkalle per dy problematikat kryesore.)

- ☒ 3 Politika qe do te trajtonin pjesen me te madhe te problematikave,
- ☒ 4 Politika te vecanta qe do te trajtonin pjesen me te madhe te problematikave,
- ☒ 2 Bashkepunim me i mire ndermjet sektoreve te ndryshem.
- ☒ 2 Bashkepunim me i mire ndermjet autoriteteve lokale dhe kombetare
- ☒ 4 Me shume burime financiare
- ☒ 3 Tarifat e ujit
- ☐ tjetër (specifikoje),

Permendi 3 aktoret/veprimet me te rendesishme per permiresimin e furnizimit me uje:

- *Permiresimi i infrastrukturës së rrjetit*
- *Vëndosja e matësve*
- *Rritja dhe permiresimi i kapaciteteve.*

Cilat jane veprimet qe insitucioni/organizata juaj mund te ndermarr per te permiresuar furnizimin me uje dhe te kontribuoj ne qendrueshmerin e tij?

- *Zvogëlimi i humbjeve nga ndërrryjet në rrjet.*
- *Rritjen e nivelit të qarkutimeve me mbelhtetjen e një taks force dhe organeve të pushtetit vendor.*

A mendini se vetem aktivitetet shteterore kontribuojne ne permiresimin e furnizimit me uje:

☒ Po ☐ Jo

Nqs pergjigja juaj eshte jo, ju lutem listoni nivele te tjera institucionale te rendesishme:

A ka korniza (marveshje, MoA etj) qe jane te rendesishme per sistemet e furnizimit me uje rajonal ose nderkufitar me te cilat ju jeni te njohur ne vendin tuaj?

☐ Po ☒ Jo

Nqs pergjigja juaj eshte po, ju lutem siguroni titujt:

Cilat jane temat me te rendesishme qe ju doni me shume informacion ne lidhje me sistemit e furnizimit me uje rajonal ose nderkufitar?

- *Angazhimi për projekte dhe masterplane për mbulimin e gjithë zonës së shërbimit.*

PYETESOR MBI MENAXHIMIN E BURIMEVE UJORE NDERKUFITAR DHE MANAXHIMIN E SITEMIT TE FURNIZIMIT ME UJE TE PIJSHEM

Emer: Mbiemer: Institucioni/ Organizata: <i>(Nqs deshironi te mbeten anonim mos e plotesoni kete rresht)</i> Firma:	<div style="border: 1px solid black; height: 30px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 30px; margin-bottom: 5px; text-align: center;"> <i>Udhëheqës Komunitar Vlorë</i> </div> <div style="border: 1px solid black; height: 30px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 30px; margin-bottom: 5px;"></div>
Misioni ose qllimi i Institucioni/ Organizates ku ju punoni:	
<input checked="" type="checkbox"/> Furnizim me Uje <input type="checkbox"/> Autoritet <input type="checkbox"/> Institut Kerkimor <input type="checkbox"/> Shoqate <input type="checkbox"/> tjeter (specifikoje)	
Ne cilin sector ushtrohen aktivitetet tuaja?	
<input checked="" type="checkbox"/> uje <input type="checkbox"/> agrikulture <input type="checkbox"/> edukim/pune kerkimore <input type="checkbox"/> bashkeveprim nderkombetar <input type="checkbox"/> financiar/ legjislativ <input type="checkbox"/> tjeter (specifikoje),	
Ne cfare niveli hapsinore pasqyrohen me mire aktivitetet dhe detyrat tuaja tuaja?	
<input type="checkbox"/> Lokale <input checked="" type="checkbox"/> Rajonale <input type="checkbox"/> Kombetare <input type="checkbox"/> Nderkombetare <input type="checkbox"/> tjeter (specifikoje),:	
Cilat jane ceshtjet dhe problematikat kryesore ne lidhje me furnizimin me uje? (Renditini ne shkallen 1-5 ku: 1 me e rendesishmja , 5 me pak e rendesishmja, nqs eshte e mundur caktoni te njejten shkalle per dy problematikat kryesore.)	
<div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <i>1</i> <input type="checkbox"/> Humbjet <i>4</i> <input type="checkbox"/> Sasia <i>3</i> <input type="checkbox"/> Cilesia <i>5</i> <input type="checkbox"/> Tarifat e ujit </div> <div style="width: 50%;"> <i>5</i> <input type="checkbox"/> Luhatjet sezonale <i>3</i> <input type="checkbox"/> Politikat dhe legjislacioni <i>2</i> <input type="checkbox"/> Kapacitete njerezore </div> <div style="width: 50%;"> <i>1</i> <input type="checkbox"/> Mungesa e fondeve <i>2</i> <input type="checkbox"/> Infrastruktura <i>5</i> <input type="checkbox"/> Ndryshimet klimaterike </div> <div style="width: 50%;"> <i>2</i> <input type="checkbox"/> Mungesa e bashkepunimit <input type="checkbox"/> tjeter (specifikoje): </div> </div>	
Cilat jane hapat dhe aktivitetet me te rendesishme qe do te permiresonin furnizimin me uje?	
<div style="border: 1px solid black; height: 100px; margin-top: 10px;"> <i>- Permbledhimi i infrastrukturës</i> <i>- Reforme Legjislative</i> <i>- Reduktimi i humbjeve të ujit</i> <i>- Rritja e mbledhjes së të veshurave</i> </div>	

A mendoni se disa ceshtje ndersektoriale mund te zgjidhen me:

(Renditini ne shkallen 1-5 ku: 1 me e rendesishmja , 5 me pak e rendesishmja, nqs eshte e mundur caktoni te njejten shkalle per dy problematikat kryesore.)

- 5 ☐ Politika qe do te trajtonin pjesen me te madhe te problematikave,
1 ☐ Politika te vecanta qe do te trajtonin pjesen me te madhe te problematikave,
2 ☐ Bashkepunim me i mire ndermjet sektoreve te ndryshem.
2 ☐ Bashkepunim me i mire ndermjet autoriteteve lokale dhe kombetare
1 ☐ Me shume burime financiare
4 ☐ Tarifat e ujit
☐ Tjeter (specifikoje),

Permendi 3 aktoret/veprimet me te rendesishme per permiresimin e furnizimit me uje:

- Menaxhim me i mire
- Me shume investime
- Reduktimi i humbjeve te ujit

Cilat jane veprimet qe insitucioni/organizata juaj mund te ndermarr per te permiresuar furnizimin me uje dhe te kontribuoj ne qendrueshmerin e tij?

- Permiresimi i sherbimit te furnizimit me uje
- Pajisja me qymatesa te ri
- Rritja e nivelit te arketimere

A mendini se vetem aktivitetet shteterore kontribuojne ne permiresimin e furnizimit me uje:

☒ Po ☐ Jo

Nqs pergjigja juaj eshte jo, ju lutem listoni nivele te tjera institucionale te rendesishme:

A ka korniza (marveshje, MoA etj) qe jane te rendesishme per sistemet e furnizimit me uje rajonal ose nderkufitar me te cilat ju jeni te njohur ne vendin tuaj?

☐ Po ☒ Jo

Nqs pergjigja juaj eshte po, ju lutem siguroni titujt:

Cilat jane temat me te rendesishme qe ju doni me shume informacion ne lidhje me sistemit e furnizimit me uje rajonal ose nderkufitar?

- Metodologjia per ne bashkepunim dhe menaxhim me te mire ne sistemet e furnizimit rajonal.

ANNEX 2: NATIONAL DATA BOSNIA AND HERZEGOVINA

GENERAL ANALYSES FOR QUESTIONNAIRES ON CROSS BORDER /REGIONAL WATER SUPPLY SYSTEMS AND WATER RESOURCES MANAGEMENT

FB 12 - Hydro-Engineering Institute of Faculty of Civil Engineering Sarajevo

The questionnaires' were sent to the next stakeholders:

- The Ministry of Foreign Trade and Economic Relations,
- Federal Ministry for agriculture, water management and forestry,
- Ministry for agriculture, water management and forestry of Republic of Srpska,
- Agency for Sava River Basin District Sarajevo,
- Agency for Adriatic Sea River Basin District Mostar,
- Public institution "Vode Srpske", Bijeljina,
- Cantonal ministries for agriculture, water management and forestry along B&H/Croatia cross border area (Canton 10, Herzegovina-Neretva canton, West Herzegovina canton),
- Municipalities along B&H/Croatia cross-border area (Posušje, Tomislavgrad, Ljubuški, Čapljina, Neum, Livno, Bosansko Grahovo, Trebinje, Bileća)
- Public utilities for water supply in the municipalities along B&H/Croatia cross-border area.

The selected project stakeholders were recognized from the state, entity, cantonal and local level of government to the relevant water agencies.

In total 20 questionnaires' were sent and 16 of them have replied.

Most of the stakeholders who answered on the questionnaires were authority organizations related to water issues and water utility companies in the project area, and their activities are mainly focused on water supply and water protection. Also, their activities are mostly focused on the local level.

The present main water supply management issues and problems are: water losses, water quality, infrastructure, climate changes and existing legislation and policy framework in B&H, with emphasis on the water quality, capacities and lack of financial resources.

From water losses issue, most of the answers were focused on distribution network leakage and unauthorized consumption. Regarding the quantity issue, most of the answers were focused on water storage capacities and seasonal fluctuations in water quantity.

The issues in the field of water quality showed that problems were regarding source protection issues and point source pollution while question regarding water supply distribution constrains show that persistent problems were equally distributed among different answers with emphasis on ageing of the distribution network and poor maintenance of water supply distribution system.

Question about the main water supply management constrains in the near future indicate that biggest constrains are water losses and lack of funding. Different answers are presented within the question "What are the most important steps and activities that would improve water supply in terms of aforementioned issues and constrains?".

Water utility companies recognized poor maintenance of the water supply system and elimination of illegal connections as the main issues for the improvement.

Water Agencies and other decision maker at all levels (State, Cantonal and Municipal) suggest that developing of the proper water tariffs and the change in the approach to the water supply policy are needed for water supply improving.

Most of the answers regarding question about cross-cutting issues were that this issue would be solved by developing a better water tariffs, with more available financial resources and with developing a better cooperation among national authorities.

The three most significant actors/actions for improved water supply and water resources management were: establishing an adequate water tariff, quality maintains and reduction of the water loses in the water supply systems.

Recognized actions for the improving of the water supply system and water resources management are also: detection of leakages in water supply system, sanitary protection zone elaborate preparation and implementation and functioning of water supply in accordance with the Water Law.

Most evaluated stakeholders think that only state can take necessary activities to contribute improving of the water supply, while familiarity/knowledge with role and activities of Bilateral Commissions of significance for cross – border/regional water supply and water resources management was mostly deficient or moderate as well as the familiarity/knowledge with role and activities of Local Authorities of significance for cross – border/regional water supply.

Furthermore, there is no knowledge related legislative frameworks which is important for cross-border/regional water supply systems and water resource management.

Knowledge of the implementation level of River Basin Management Plans at the national level is evaluated as pending as well as the implementation level of River basin Management Plans for the transboundary river basins.

The most important topics regarding the cross - border/regional water supply systems and water resources management were: definition of rights and responsibilities for cross-border WSS users and issues related water source protection and urgent establishment of protection zones at cross border catchment area.

At the end, every evaluated site considers the important and need for the workshops/roundtables with cross border water supply management items.

In general, questioners showed that the main problems are: water protection zones establishment, development of different water tariffs, reduce of the water loses and lack of founding for successful management and maintenance at the cross border water supply systems.

UPITNIK O PREKOGRANIČNIM/REGIONALNIM SISTEMIMA ZA VODOSNABDIJEVANJE I UPRAVLJANJE VODNIM RESURSIMA

Kapitalizacija i održivost aktivnosti je važna komponenta projekta, koja će osigurati okvir za razmjenu značajnih informacija između korisnika, nadležnih institucija, istraživačkih institucija i sl, a koje su od značaja za prekogranične/regionalne sisteme za vodosnabdjevanje

Vaše povratne informacije pružit će vrijedne podatke i pridonijeti uspješnoj realizaciji projekta DRINKADRIA.

Ime:	
Prezime:	
Institucija/Organizacija: (ukoliko želite ostati anonimni, molimo ne popunjavati)	Agencija za vodno područje Jadranskog mora Mostar

Vaša institucija/Organizacija/glavno područje djelatnosti:

☐ Vodovod ☒ Javna uprava : ☐ lokalni nivo ☐ regionalni nivo ☐ nacionalni nivo
☐ Istraživačka organizacija ☐ Vodna udruga/udruženje ☐ Drugo (navesti):

Vaše aktivnosti su uglavnom fokusirane na:

☐ vodosnabdjevanje/vodoopskrba ☐ zaštita voda ☐ obrazovanje/istraživanje
☐ međunarodna suradnja ☐ financije/legislatura ☒ drugo (imenovati): Upravljanje vodama

Koji prostorni obuhvat najbolje odražava Vaš rad i aktivnosti?
(Molimo koristiti postotke/procente u procjenjivanju tako da ukupno na kraju bude 100%)
Primjer: lokalni -55%. nacionalni -25%, drugo - 20%)

lokalni 20_ % regionalni 60_ % nacionalni 15_ % internacionalni 5_ % drugo, (imenovati) :
 _____, _ %

Koji su glavni problemi u upravljanju sistemima za vodosnabdjevanje/postojeći problemi?
(Molimo rangirati: 1 najznačajniji , 5 najmanje značajan, moguće je zabilježiti dva problema kao najznačajnija)

2 ☐ Gubici vode 4 ☐ Kvantitet 3 ☐ Kvalitet 2 ☐ Tarifa vode
☐ zakonodavstvo i politički okvir 1 ☐ nedostatak sredstava ☐ Infrastruktura
☐ kapaciteti: ☐ institucionalni ☒ tehnički ☐ ljudski
☐ klimatske promjene ☐ slaba suradnja ☐ drugo (navesti) :

Molimo rangirati slijedeće prema prethodno spomenutim problemima:

(Molimo rangirati: 1 najznačajniji , 5 najmanje značajan, moguće je zabilježiti dva problema kao najznačajnija)

GUBICI VODE

- 2 ☐ nezakonita potrošnja ☐ greške u mjerenju utroška vode x ☐ gubici u distributivnoj mreži
☐ curenja u distributivnoj mreži ☐ curenje vode iz drugih postrojenja
☐ drugo, molim navesti

KVANTITET

- 2 ☐ povećano korištenje voda 1 ☐ sezonske fluktuacije 2 ☐ kapacitet rezervoara
☐ promjene u namjeni/korištenju zemljišta ☐ velika potrošnja od strane drugih sektora (poljoprivreda, industrija, isl.)
☐ Klimatske promjene ☐ drugo, molim navesti

KVALITET

- 2 ☐ točkasti izvori zagađenja 2 ☐ difuzno zagađenje 1 ☐ problemi u zaštiti izvorišta
☐ promjene u namjeni/korištenju zemljišta ☐ sezonske fluktuacije ☐ Klimatske promjene
☐ drugo, molim navesti

OGRANIČENJA/REDUKCIJE U DISTRIBUCIJI VODE

- ☐ neodgovarajuća mreža ☐ kapaciteti pumpnih stanica 3 ☐ nedostaci u rezervoarima
1 ☐ slabo održavanje vodovodnog sistema 2 ☐ starost sistema
☐ drugo, molim navesti

Koje su glavne prepreke za upravljanje sistemom vodosnabdijevanja u bliskoj budućnosti (slijedećih 25 do 30 godina)?

(Molimo rangirati: 1 najznačajniji , 5 najmanje značajan, moguće je zabilježiti dva problema kao najznačajnija)

- 2 ☐ Gubici vode ☐ Kvantitet 4 ☐ Kvaliteta 3 ☐ Tarifa vode
☐ zakonodavstvo i politički okvir 1 ☐ nedostatak sredstava ☐ Infrastruktura
☐ kapaciteti: ☐ institucionalni x ☐ tehnički ☐ ljudski
☐ klimatske promjene ☐ slaba suradnja ☐ drugo (navesti) :

Koji su najvažniji koraci i aktivnosti koje će poboljšati opskrbu vodom u smislu navedenih problema i ograničenja?

Uspostava okvira za tarife i aktivnosti vezane za smanjenje gubitaka za 15 – 20%

Mislite li da se neka multidisciplinarna pitanja mogu riješiti na slijedeći način:

(Molimo rangirati: 1 najznačajniji , 5 najmanje značajan, moguće je zabilježiti dva problema kao najznačajnija)

- ☐ Politikom kojima će se obuhvatiti većina problema
☐ Različitim politikama kojima će se obuhvatiti većina problema
☐ Boljom suradnjom između različitih sektora

☐ Boljom suradnjom između lokalnih i nacionalnih vlasti

2 ☐ Sa više finansijskih resursa

1 ☐ Odgovarajućom tarifom vode

☐ drugo (navesti) :

Navedite tri najznačajnija faktora/aktivnosti za poboljšanje sustava vodoopskrbe i gospodarenja vodnim resursima:

- Uspostava okvira za tarife
- Smanjenje gubitaka

Koje su radnje koje vaša institucija/organizacija može poduzeti kako bi poboljšala sistem vodosnabdjevanja, upravljanje vodnim resursima i održivosti istog?

- Podrška lokalnoj zajednici vezano za izradu elaborata zaštitnih zona
- Učestvovanje u definiranju pravnog regulatornog okvira za rad u skladu sa zakonom o vodama

Mislite li da samo aktivnosti države doprinose poboljšanju sistema vodosnabdjevanja/sustava vodoopskrbe:

☐ DA x ☒ NE

Ako je odgovor NE, molimo navesti i ostale institucionalne razine od značaja:
Lokalni, kantonalni, federalni nivo

Vaše poznavanje/znanje uloge i aktivnosti bilateralnih komisija, koje su od značaja za prekogranične/regionalne vodoopskrbne sisteme i upravljanje vodama:

x ☒ Opsežno ☐ Umjereno ☐ Oskudno

Vaše poznavanje/znanje uloge i aktivnosti lokalnih vlasti od značaja za prekogranične/regionalne vodoopskrbne sisteme i upravljanje vodama:

<input type="checkbox"/> Opsežno <input type="checkbox"/> Umjereno <input checked="" type="checkbox"/> Oskudno
<p>Postoje li zakonski okviri u Vašoj državi/regiji (pravilnici, ugovori, Memorandumi o razumijevanju, i sl.) koji su značajni za prekogranične/regionalne sisteme vodosnabdjevanja i upravljanje vodnim resursima:</p> <p>X <input type="checkbox"/> DA <input type="checkbox"/> NE</p> <p>Ako je odgovor DA navesti dokument:</p> <p>Međudržavni sporazum o vodno-gospodarskoj suradnji BiH i RH iz 1996. Prijedlog ugovora o vodoopskrbnim sustavima presječenim državnom granicom – detaljne informacije u MVTiEO</p>
<p>Vaše poznavanje problema/ograničenja u pogledu prekograničnih izvorišta vode za piće:</p> <p><input checked="" type="checkbox"/> Opsežno <input type="checkbox"/> Umjereno <input type="checkbox"/> Oskudno</p> <p>Molimo ukoliko postoje dodatni komentari iste navesti:</p>
<p>Razina provedbe planova upravljanja vodnim područjima na nacionalnoj razini:</p> <p><input type="checkbox"/> Završena <input checked="" type="checkbox"/> U toku <input type="checkbox"/> Početna</p> <p>Molimo ukoliko postoje dodatni komentari iste navesti:</p>
<p>Razina provedbe planova upravljanja slivom (prekogranični riječni slivovi):</p> <p><input type="checkbox"/> Završena <input checked="" type="checkbox"/> U toku <input type="checkbox"/> Početna</p> <p>Molimo ukoliko postoje dodatni komentari iste navesti:</p>

Koje su najznačajnije teme sa kojima bi željeli da se bolje upoznate u vezi prekograničnih vodoopskrbnih sustava/sistema vodosnabdijevanja i upravljanja prekograničnim vodnim resursima? Zaštita izvorišta čije se zone zaštite nalaze u drugoj državi
Smatrate li da je tip radionica/okruglih stolova na ovu temu koristan: x <input type="checkbox"/> Da <input type="checkbox"/> Ne <input type="checkbox"/> Suzdržan
Dodatni komentari

QUESTIONNAIRE ON CROSS BORDER /REGIONAL WATER SUPPLY SYSTEMS AND WATER RESOURCES MANAGEMENT

The Capitalization and sustainability activity (CS) is an important project component that would provide framework for exchange of relevant information of significance for cross- border/ regional water supply systems among stakeholders, authorities, research institutions, etc.

Yours feedbacks collected during the national workshops provide valuable inputs and contribute to successful DRINKADRIA project implementation.

Name:	
Surname:	
Institution/ Organization: (If you wish to remain anonymous, please do not fill)	Sava River Watershed Agency

Your Institution/ Organization mission /main scope of the work:

☐ Water utility ☒ Authority : ☐ local ☐ regional ☐ national
☐ Research Organization ☐ Water Association ☐ Other (please specify):

Your activities are mainly focused on :

☐ water supply ☐ water protection ☐ education/research
☐ international cooperation ☐ financial/ legislative ☒ other, namely : Water management

What spatial scale reflects the best your activities and tasks?
(Please use percentile estimation in a way that total amount is 100%)
Example: local -55%. national -25%, other - 20%)

local 20% regional 60% national 15% international % other, namely : , %

What are the main water supply management issues/ problems at the present?
(Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

② Losses **④**Quantity **③**Quality **②**Water tariffs
☐ legislation and policy framework **①**Lack of funding ☐ Infrastructure
☐ Capacities : ☐ institutional ☐ technical ☐ human
☐ Climate change ☐ Weak Cooperation ☐ Other, namely :

Please rank the following in terms of before mentioned issues/problems:
(Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

LOSSES

- | | | |
|--|--|--|
| <input checked="" type="checkbox"/> unauthorized consumption | <input type="checkbox"/> metering errors | <input checked="" type="checkbox"/> distribution network leakage |
| <input type="checkbox"/> distribution network leakage | <input type="checkbox"/> water supply facilities leakage | |
| <input type="checkbox"/> other, please specify | | |

QUANTITY

- | | | |
|---|---|--|
| <input checked="" type="checkbox"/> increase in water use | <input checked="" type="checkbox"/> seasonal fluctuations | <input checked="" type="checkbox"/> water storage capacities |
| <input type="checkbox"/> changes in land use practices | <input type="checkbox"/> high consumption by other sectors (agriculture, industry, etc) | |
| <input type="checkbox"/> Climate Change | <input type="checkbox"/> other, please specify | |

QUALITY

- | | | |
|--|---|--|
| <input checked="" type="checkbox"/> point source pollution | <input checked="" type="checkbox"/> nonpoint source pollution | <input checked="" type="checkbox"/> source protection issues |
| <input type="checkbox"/> changes in land use practices | <input type="checkbox"/> seasonal fluctuation | <input type="checkbox"/> Climate Change |
| <input type="checkbox"/> other, please specify | | |

WATER SUPPLY DISTRIBUTION CONSTRAINS

- | | | |
|--|--|---|
| <input type="checkbox"/> inadequate network | <input type="checkbox"/> pumping stations capacities | <input checked="" type="checkbox"/> reservoirs deficiency |
| <input checked="" type="checkbox"/> poor maintenance of water supply distribution system | | <input checked="" type="checkbox"/> ageing |
| <input type="checkbox"/> other, please specify | | |

What are the main water supply management constrains in the near future (next 25- 30 years) ?
(Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

- | | | | |
|---|---|---|---|
| <input checked="" type="checkbox"/> Losses | <input type="checkbox"/> Quantity | <input checked="" type="checkbox"/> Quality | <input checked="" type="checkbox"/> Water tariffs |
| <input type="checkbox"/> legislation and policy framework | <input checked="" type="checkbox"/> Lack of funding | <input type="checkbox"/> Infrastructure | |
| <input type="checkbox"/> Capacities : <input type="checkbox"/> institutional <input checked="" type="checkbox"/> technical <input type="checkbox"/> human | | | |
| <input type="checkbox"/> Climate change <input type="checkbox"/> Weak Cooperation <input type="checkbox"/> Other, namely | | | |

What are the most important steps and activities that would improve water supply in terms of aforementioned issues and constrains?

Establishing a tariffs framework and activities related to the reduction of losses for 15-20%

Do you think that some cross-cutting issues can be solved by:

(Please rank them: 1 the most significant , 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

- ☐ Policy that would address the majority of issues
- ☐ Separate policies that would address the majority of issues

<input type="checkbox"/> Better cooperation among different sectors <input type="checkbox"/> Better cooperation among local and national authorities <input checked="" type="checkbox"/> More financial resources <input checked="" type="checkbox"/> Water tariffs <input type="checkbox"/> Other, namely :
<p>Please list the 3 most significant actors/ actions for improved water supply and water resources management:</p> <ul style="list-style-type: none"> • Establishing an adequate tariff • Water losses reduction
<p>What are the actions that your institution/ organization might take to improve water supply and water resources management and contribute to its sustainability?</p> <ul style="list-style-type: none"> • Support the local community in relation to making elaborate for the protection zones for the water sources, • Participation in defining the legal regulatory framework to operate in accordance with the Law on Water.
<p>Do you think that only state activities contribute to improved water supply:</p> <p><input type="checkbox"/> YES <input checked="" type="checkbox"/> No</p> <p>If the answer is NO please list other institutional levels of significance:</p>
<p>Your familiarity/ knowledge with role and activities of Bilateral Commissions of significance for cross – border/ regional water supply and water resources management:</p> <p><input checked="" type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input type="checkbox"/> Deficient</p>
<p>Your familiarity/ knowledge with role and activities of Local Authorities of significance for cross – border/ regional water supply:</p> <p><input type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Deficient</p>
<p>Are there legislative frameworks (treaties, agreements, Memorandum of Understanding, etc.) that are significant for cross-border/ regional water supply systems and water resource management you are familiar with in your country/region:</p> <p><input checked="" type="checkbox"/> YES <input type="checkbox"/> No</p> <p>If the answer is yes, please provide the title</p> <p>Intergovernmental agreement on cooperation in water management between BiH and Croatia, from the 1996th Proposal of the contract for the water supply systems cutaway by state border - detailed information in MOFTER</p>
<p>Your familiarity with issues/ constrains regarding cross- border / regional water resources:</p>

<input checked="" type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input type="checkbox"/> Deficient Please provide additional comments if any:
Implementation level of River basin Management Plans at the national level: <div style="text-align: center;"> <input type="checkbox"/> Completed <input checked="" type="checkbox"/> Ongoing <input type="checkbox"/> Pending </div> Please provide additional comments if any:
Implementation level of River basin Management Plans (transboundary river basins) : <div style="text-align: center;"> <input type="checkbox"/> Completed <input checked="" type="checkbox"/> Ongoing <input type="checkbox"/> Pending </div> Please provide additional comments if any:
What are the most important topics that you would like to become more familiar regarding to cross- border /regional water supply systems and water resources management? Protecting of the drinking water source whose protection zones are in another country.
Do you consider this type of workshops/roundtables useful: <div style="text-align: center;"> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Neutral </div>
Additional Comments:

QUESTIONNAIRE ON CROSS BORDER /REGIONAL WATER SUPPLY SYSTEMS AND WATER RESOURCES MANAGEMENT

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Yours feedbacks collected during the national workshops provide valuable inputs and contribute to successful DRINKADRIA project implementation.

Name:	Slobodan
Surname:	Soče
Institution/ Organization: (If you wish to remain anonymous, please do not fill)	PU "Čapljina" d.o.o. Čapljina

Your Institution/ Organization mission /main scope of the work:

☒ Water utility ☐ Authority : ☐ local ☐ regional ☐ national
☐ Research Organization ☐ Water Association ☐ Other (please specify):

Your activities are mainly focused on :

☒ water supply ☐ water protection ☐ education/research
☐ international cooperation ☐ financial/ legislative ☐ other, namely :

What spatial scale reflects the best your activities and tasks?
(Please use percentile estimation in a way that total amount is 100%)
Example: local -55%. national -25%, other - 20%)

local 95 % regional 5 % national % international % other, namely : , %

What are the main water supply management issues/ problems at the present?
(Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

❶ Losses ☐ Quantity ☐ Quality ❸ Water tariffs
☐ legislation and policy framework ❷ Lack of funding ❹ Infrastructure
 ❺ Capacities : ☐ institutional ☐ technical ☐ human
☐ Climate change ☐ Weak Cooperation ☐ Other, namely :

Please rank the following in terms of before mentioned issues/problems:
(Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

LOSSES

- | | | |
|---|--|---|
| <input checked="" type="radio"/> 1 unauthorized consumption | <input checked="" type="radio"/> 3 metering errors | <input checked="" type="radio"/> 2 distribution network leakage |
| <input checked="" type="radio"/> 4 distribution network leakage | <input type="checkbox"/> water supply facilities leakage | |
| <input type="checkbox"/> other, please specify | | |

QUANTITY

- | | | |
|--|---|---|
| <input type="checkbox"/> increase in water use | <input type="checkbox"/> seasonal fluctuations | <input checked="" type="radio"/> 1 water storage capacities |
| <input type="checkbox"/> changes in land use practices | <input type="checkbox"/> high consumption by other sectors (agriculture, industry, etc) | |
| <input type="checkbox"/> Climate Change | <input type="checkbox"/> other, please specify | |

QUALITY

- | | | |
|--|--|---|
| <input type="checkbox"/> point source pollution | <input type="checkbox"/> nonpoint source pollution | <input checked="" type="radio"/> 1 source protection issues |
| <input type="checkbox"/> changes in land use practices | <input type="checkbox"/> seasonal fluctuation | <input type="checkbox"/> Climate Change |
| <input type="checkbox"/> other, please specify | | |

WATER SUPPLY DISTRIBUTION CONSTRAINS

- | | | |
|---|--|--|
| <input checked="" type="radio"/> 2 inadequate network | <input type="checkbox"/> pumping stations capacities | <input checked="" type="radio"/> 1 reservoirs deficiency |
| <input type="checkbox"/> poor maintenance of water supply distribution system | | <input type="checkbox"/> ageing |
| <input type="checkbox"/> other, please specify | | |

What are the main water supply management constrains in the near future (next 25- 30 years) ?
(Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

- | | | | |
|--|--|---|--|
| <input checked="" type="checkbox"/> Losses | <input type="checkbox"/> Quantity | <input type="checkbox"/> Quality | <input type="checkbox"/> Water tariffs |
| <input type="checkbox"/> legislation and policy framework | <input checked="" type="radio"/> 2 Lack of funding | <input type="checkbox"/> Infrastructure | |
| <input type="checkbox"/> Capacities : <input type="checkbox"/> institutional <input type="checkbox"/> technical <input type="checkbox"/> human | | | |
| <input type="checkbox"/> Climate change <input type="checkbox"/> Weak Cooperation <input type="checkbox"/> Other, namely | | | |

What are the most important steps and activities that would improve water supply in terms of aforementioned issues and constrains?

Water losses reduction and water supply system reconstruction

Do you think that some cross-cutting issues can be solved by:

(Please rank them: 1 the most significant , 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

- ☐ Policy that would address the majority of issues
- ☐ Separate policies that would address the majority of issues

<input type="checkbox"/> Better cooperation among different sectors <input type="checkbox"/> Better cooperation among local and national authorities <input checked="" type="checkbox"/> More financial resources <input type="checkbox"/> Water tariffs <input type="checkbox"/> Other, namely :
<p>Please list the 3 most significant actors/ actions for improved water supply and water resources management:</p> <ul style="list-style-type: none"> • rationalization and reduction of water losses, • reconstruction of dilapidated water supply network, the introduction of remote monitoring and management and implementation of new test methods of system monitoring, • increase of the billing.
<p>What are the actions that your institution/ organization might take to improve water supply and water resources management and contribute to its sustainability?</p> <ul style="list-style-type: none"> • Detection of leakages from the mains and service lines, • Replacement of water meters, which are on average 12-15 years old. (losses in the measurement-apparent losses) • installation of water meters in each flat in a collective housing buildings, • regular monitoring of consumer debts and regular suing of that consumers.
<p>Do you think that only state activities contribute to improved water supply:</p> <p><input type="checkbox"/> YES <input checked="" type="checkbox"/> No</p> <p>If the answer is NO please list other institutional levels of significance:</p> <ul style="list-style-type: none"> • Local, • regional
<p>Your familiarity/ knowledge with role and activities of Bilateral Commissions of significance for cross – border/ regional water supply and water resources management:</p> <p><input type="checkbox"/> Comprehensive <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Deficient</p>
<p>Your familiarity/ knowledge with role and activities of Local Authorities of significance for cross – border/ regional water supply:</p> <p><input type="checkbox"/> Comprehensive <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Deficient</p>
<p>Are there legislative frameworks (treaties, agreements, Memorandum of Understanding, etc.) that are significant for cross-border/ regional water supply systems and water resource management you are familiar with in your country/region:</p> <p><input type="checkbox"/> YES <input checked="" type="checkbox"/> No</p>

If the answer is yes, please provide the title
<p>Your familiarity with issues/ constrains regarding cross- border / regional water resources:</p> <p><input type="checkbox"/> Comprehensive <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Deficient</p> <p>Please provide additional comments if any:</p>
<p>Implementation level of River basin Management Plans at the national level:</p> <p><input type="checkbox"/> Completed <input type="checkbox"/> Ongoing <input checked="" type="checkbox"/> Pending</p> <p>Please provide additional comments if any:</p>
<p>Implementation level of River basin Management Plans (transboundary river basins) :</p> <p><input type="checkbox"/> Completed <input type="checkbox"/> Ongoing <input checked="" type="checkbox"/> Pending</p> <p>Please provide additional comments if any:</p>
<p>What are the most important topics that you would like to become more familiar regarding to cross- border /regional water supply systems and water resources management?</p>
<p>Do you consider this type of workshops/roundtables useful:</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Neutral</p>
<p>Additional Comments:</p>

UPITNIK O PREKOGRANIČNIM/REGIONALNIM SISTEMIMA ZA VODOSNABDIJEVANJE I UPRAVLJANJE VODNIM RESURSIMA

Kapitalizacija i održivost aktivnosti je važna komponenta projekta, koja će osigurati okvir za razmjenu značajnih informacija između korisnika, nadležnih institucija, istraživačkih institucija i sl, a koje su od značaja za prekogranične/regionalne sisteme za vodosnabdjevanje

Vaše povratne informacije pružit će vrijedne podatke i pridonijeti uspješnoj realizaciji projekta DRINKADRIA.

Ime:	
Prezime:	
Institucija/Organizacija: (ukoliko želite ostati anonimni, molimo ne popunjavati)	JKP „LJUBUŠKI“ doo ALBERTA FORTISA BB LJUBUŠKI

Vaša institucija/Organizacija/glavno područje djelatnosti:

☒ Vodovod ☐ Javna uprava : ☐ lokalni nivo ☐ regionalni nivo ☐ nacionalni nivo
☐ Istraživačka organizacija ☐ Vodna udruga/udruženje ☐ Drugo (navesti):

Vaše aktivnosti su uglavnom fokusirane na:

☒ vodosnabdjevanje/vodopskrba ☐ zaštita voda ☐ obrazovanje/istraživanje
☐ međunarodna suradnja ☐ financije/legislatura ☐ drugo (imenovati):

Koji prostorni obuhvat najbolje odražava Vaš rad i aktivnosti?
(Molimo koristiti postotke/procente u procjenjivanju tako da ukupno na kraju bude 100%)
Primjer: lokalni -55%. nacionalni -25%, drugo - 20%)

lokalni 99% regionalni 1 % nacionalni _ % internacionalni _ % drugo, (imenovati) : _____, _ %

Koji su glavni problemi u upravljanju sistemima za vodosnabdjevanje/postojeći problemi?
(Molimo rangirati: 1 najznačajniji , 5 najmanje značajan, moguće je zabilježiti dva problema kao najznačajnija)

☒ Gubici vode ☐ Kvantitet ☐ Kvalitet ☐ Tarifa vode
☐ zakonodavstvo i politički okvir ☒ nedostatak sredstava ☐ Infrastruktura
☐ kapaciteti: ☐ institucionalni ☐ tehnički ☐ ljudski
☐ klimatske promjene ☐ slaba suradnja ☐ drugo (navesti) :

Molimo rangirati slijedeće prema prethodno spomenutim problemima:

(Molimo rangirati: 1 najznačajniji , 5 najmanje značajan, moguće je zabilježiti dva problema kao najznačajnija)

GUBICI VODE

- 2 nezakonita potrošnja 3 greške u mjerenju utroška vode 1 gubici u distributivnoj mreži
1 curenja u distributivnoj mreži ☐ curenje vode iz drugih postrojenja
☐ drugo, molim navesti

KVANTITET

- ☐ povećano korištenje voda ☐ sezonske fluktuacije ☐ kapacitet rezervoara
☐ promjene u namjeni/korištenju zemljišta X velika potrošnja od strane drugih sektora (poljoprivreda, industrija, isl.)
☐ Klimatske promjene ☐ drugo, molim navesti

KVALITET

- ☐ točkasti izvori zagađenja ☐ difuzno zagađenje ☐ problemi u zaštiti izvorišta
☐ promjene u namjeni/korištenju zemljišta X sezonske fluktuacije ☐ Klimatske promjene
☐ drugo, molim navesti

OGRANIČENJA/REDUKCIJE U DISTRIBUCIJI VODE

- ☐ neodgovarajuća mreža ☐ kapaciteti pumpnih stanica ☐ nedostaci u rezervoarima
☐ slabo održavanje vodovodnog sistema X starost sistema
☐ drugo, molim navesti

Koje su glavne prepreke za upravljanje sistemom vodosnabdijevanja u bliskoj budućnosti (slijedećih 25 do 30 godina)?

(Molimo rangirati: 1 najznačajniji , 5 najmanje značajan, moguće je zabilježiti dva problema kao najznačajnija)

- 1 Gubici vode ☐ Kvantitet ☐ Kvaliteta ☐ Tarifa vode
☐ zakonodavstvo i politički okvir 2 nedostatak sredstava ☐ Infrastruktura
☐ kapaciteti: ☐ institucionalni ☐ tehnički ☐ ljudski
☐ klimatske promjene ☐ slaba suradnja ☐ drugo (navesti) :

Koji su najvažniji koraci i aktivnosti koje će poboljšati opskrbu vodom u smislu navedenih problema i ograničenja?

RJEŠAVANJE KVAROVA

OTKRIVANJE ILEGALNIH PRIKLJUČAKA

Mislite li da se neka multidisciplinarna pitanja mogu riješiti na slijedeći način:

(Molimo rangirati: 1 najznačajniji , 5 najmanje značajan, moguće je zabilježiti dva problema kao najznačajnija)

- 1 Politikom kojima će se obuhvatiti većina problema
☐ Različitim politikama kojima će se obuhvatiti većina problema
2 Boljom suradnjom između različitih sektora
☐ Boljom suradnjom između lokalnih i nacionalnih vlasti

- 3 Sa više finansijskih resursa
4 Odgovarajućom tarifom vode
☐ drugo (navesti) :

Navedite tri najznačajnija faktora/aktivnosti za poboljšanje sustava vodoopskrbe i gospodarenja vodnim resursima:

ODRŽAVANJE VODOVODNE MREŽE U SMISLU OTKLANJANJA KVAROVA , ODRŽAVANJE BAZENA , REDOVITE ANALIZE VODE

Koje su radnje koje vaša institucija/organizacija može poduzeti kako bi poboljšala sistem vodosnabdjevanja, upravljanje vodnim resursima i održivosti istog?
KVALITETAN RAD DJELATNIKA NA ODRŽAVANJU I SURADNJA KAKO SA ISPORUČIOCIIMA , TAKO I SA POTROŠAČIMA

Mislite li da samo aktivnosti države doprinose poboljšanju sistema vodosnabdjevanja/sustava vodoopskrbe:

☐ DA ☒ NE

Ako je odgovor NE, molimo navesti i ostale institucionalne razine od značaja:

Vaše poznavanje/znanje uloge i aktivnosti bilateralnih komisija, koje su od značaja za prekogranične/regionalne vodoopskrbne sisteme i upravljanje vodama:

☐ Opsežno ☐ Umjereno ☒ Oskudno

Vaše poznavanje/znanje uloge i aktivnosti lokalnih vlasti od značaja za prekogranične/regionalne vodoopskrbne sisteme i upravljanje vodama:

☐ Opsežno ☐ Umjereno ☒ Oskudno

<p>Postoje li zakonski okviri u Vašoj državi/regiji (pravilnici, ugovori, Memorandumi o razumijevanju, i sl.) koji su značajni za prekogranične/regionalne sisteme vodosnabdjevanja i upravljanje vodnim resursima:</p> <p><input type="checkbox"/> DA <input checked="" type="checkbox"/> NE</p> <p>Ako je odgovor DA navesti dokument:</p>
<p>Vaše poznavanje problema/ograničenja u pogledu prekograničnih izvorišta vode za piće:</p> <p><input type="checkbox"/> Opsežno <input type="checkbox"/> Umjereno <input checked="" type="checkbox"/> Oskudno</p> <p>Molimo ukoliko postoje dodatni komentari iste navesti:</p>
<p>Razina provedbe planova upravljanja vodnim područjima na nacionalnoj razini:</p> <p><input type="checkbox"/> Završena <input type="checkbox"/> U toku <input checked="" type="checkbox"/> Početna</p> <p>Molimo ukoliko postoje dodatni komentari iste navesti:</p>
<p>Razina provedbe planova upravljanja slivom (prekogranični riječni slivovi):</p> <p><input type="checkbox"/> Završena <input type="checkbox"/> U toku <input checked="" type="checkbox"/> Početna</p> <p>Molimo ukoliko postoje dodatni komentari iste navesti:</p>
<p>Koje su najznačajnije teme sa kojima bi željeli da se bolje upoznate u vezi prekograničnih vodoopskrbnih</p>

sustava/sistema vodosnabdijevanja i upravljanja prekograničnim vodnim resursima?
Smatrate li da je tip radionica/okruglih stolova na ovu temu koristan: X Da <input type="checkbox"/> Ne <input type="checkbox"/> Suzdržan
Dodatni komentari

QUESTIONNAIRE ON CROSS BORDER /REGIONAL WATER SUPPLY SYSTEMS AND WATER RESOURCES MANAGEMENT

The Capitalization and sustainability activity (CS) is an important project component that would provide framework for exchange of relevant information of significance for cross- border/ regional water supply systems among stakeholders, authorities, research institutions, etc.

Yours feedbacks collected during the national workshops provide valuable inputs and contribute to successful DRINKADRIA project implementation.

Name:	MARIJA
Surname:	NOVOKMET
Institution/ Organization: (If you wish to remain anonymous, please do not fill)	PU "KOMUNALNO" D.O.O. LIVNO

Your Institution/ Organization mission /main scope of the work:

☒ Water utility ☐ Authority : ☐ local ☐ regional ☐ national
☐ Research Organization ☐ Water Association ☐ Other (please specify):

Your activities are mainly focused on :

☒ water supply ☐ water protection ☐ education/research
☐ international cooperation ☐ financial/ legislative ☐ other, namely :

What spatial scale reflects the best your activities and tasks?
(Please use percentile estimation in a way that total amount is 100%)
Example: local -55%. national -25%, other - 20%)

local 100 % regional _ % national _ % international _ % other, namely : _____, _ %

What are the main water supply management issues/ problems at the present?
(Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

☒ ① Losses ☐ Quantity ☐ Quality ☐ Water tariffs
☐ legislation and policy framework ☒ ① Lack of funding ☒ ② Infrastructure
☐ Capacities : ☐ institutional ☒ ⑤ technical ☒ ④ human
☐ Climate change ☒ ③ Weak Cooperation ☐ Other, namely :

Please rank the following in terms of before mentioned issues/problems:
(Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

LOSSES

- ☒ 2 unauthorized consumption ☒ 4 metering errors ☒ 1 distribution network leakage
☒ 3 distribution network leakage ☐ water supply facilities leakage
☐ other, please specify

QUANTITY

- ☐ increase in water use ☐ seasonal fluctuations ☐ water storage capacities
☐ changes in land use practices ☐ high consumption by other sectors (agriculture, industry, etc)
☐ Climate Change ☐ other, please specify

QUALITY

- ☐ point source pollution ☐ nonpoint source pollution ☐ source protection issues
☐ changes in land use practices ☐ seasonal fluctuation ☐ Climate Change
☐ other, please specify

WATER SUPPLY DISTRIBUTION CONSTRAINS

- ☐ inadequate network ☐ pumping stations capacities ☐ reservoirs deficiency
☐ poor maintenance of water supply distribution system ☐ ageing
☐ other, please specify

What are the main water supply management constrains in the near future (next 25- 30 years) ?
(Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

- ☒ 1 Losses ☐ Quantity ☐ Quality ☐ Water tariffs
☐ legislation and policy framework ☒ 1 Lack of funding ☒ 2 Infrastructure
☐ Capacities : ☐ institutional ☐ technical ☐ human
☒ 4 Climate change ☒ 3 Weak Cooperation ☐ Other, namely

What are the most important steps and activities that would improve water supply in terms of aforementioned issues and constrains?

Do you think that some cross-cutting issues can be solved by:

(Please rank them: 1 the most significant , 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

- ☒ 2 Policy that would address the majority of issues
☐ Separate policies that would address the majority of issues

<input type="checkbox"/> Better cooperation among different sectors 1 Better cooperation among local and national authorities 4 More financial resources 3 Water tariffs <input type="checkbox"/> Other, namely :
Please list the 3 most significant actors/ actions for improved water supply and water resources management:
What are the actions that your institution/ organization might take to improve water supply and water resources management and contribute to its sustainability? Water loss reduction in water supply network
Do you think that only state activities contribute to improved water supply: <input type="checkbox"/> YES <input checked="" type="checkbox"/> No If the answer is NO please list other institutional levels of significance: Local institution level
Your familiarity/ knowledge with role and activities of Bilateral Commissions of significance for cross – border/ regional water supply and water resources management: <input type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Deficient
Your familiarity/ knowledge with role and activities of Local Authorities of significance for cross – border/ regional water supply: <input type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input type="checkbox"/> Deficient
Are there legislative frameworks (treaties, agreements, Memorandum of Understanding, etc.) that are significant for cross-border/ regional water supply systems and water resource management you are familiar with in your country/region: <input type="checkbox"/> YES <input type="checkbox"/> No If the answer is yes, please provide the title Not familiar
Your familiarity with issues/ constrains regarding cross- border / regional water resources: <input type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Deficient

<p>Please provide additional comments if any:</p>
<p>Implementation level of River basin Management Plans at the national level:</p> <p style="text-align: center;"><input type="checkbox"/> Completed <input type="checkbox"/> Ongoing <input type="checkbox"/> Pending</p> <p>Please provide additional comments if any:</p>
<p>Implementation level of River basin Management Plans (transboundary river basins) :</p> <p style="text-align: center;"><input type="checkbox"/> Completed <input type="checkbox"/> Ongoing <input type="checkbox"/> Pending</p> <p>Please provide additional comments if any:</p>
<p>What are the most important topics that you would like to become more familiar regarding to cross- border /regional water supply systems and water resources management?</p>
<p>Do you consider this type of workshops/roundtables useful:</p> <p style="text-align: center;"><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Neutral</p>
<p>Additional Comments:</p>

UPITNIK O PREKOGRANIČNIM/REGIONALNIM SISTEMIMA ZA VODOSNABDIJEVANJE I UPRAVLJANJE VODNIM RESURSIMA

Kapitalizacija i održivost aktivnosti je važna komponenta projekta, koja će osigurati okvir za razmjenu značajnih informacija između korisnika, nadležnih institucija, istraživačkih institucija i sl, a koje su od značaja za prekogranične/regionalne sisteme za vodosnabdjevanje

Vaše povratne informacije pružit će vrijedne podatke i pridonijeti uspješnoj realizaciji projekta DRINKADRIA.

Ime: Prezime: Institucija/Organizacija: (ukoliko želite ostati anonimni, molimo ne popunjavati)	Branko Čolić JU „VODE SRPSKE“ – Sektor za ORS Trebišnjice
Vaša institucija/Organizacija/glavno područje djelatnosti: <input type="checkbox"/> Vodovod <input checked="" type="checkbox"/> Javna uprava : <input type="checkbox"/> lokalni nivo <input type="checkbox"/> regionalni nivo <input type="checkbox"/> nacionali nivo <input type="checkbox"/> Istraživačka organizacija <input type="checkbox"/> Vodna udruga/udruženje <input type="checkbox"/> Drugo (navesti):	
Vaše aktivnosti su uglavnom fokusirane na: <input type="checkbox"/> vodosnabdjevanje/vodoopskrba <input checked="" type="checkbox"/> zaštita voda <input type="checkbox"/> obrazovanje/istraživanje <input checked="" type="checkbox"/> međunarodna suradnja <input type="checkbox"/> financije/legislatura <input type="checkbox"/> drugo (imenovati): prikupljanje, upravljanje, i raspodjela podataka o vodnim resursima, organizacija praćenja stanja i korišćenje voda – monitoring, hidrološko stanje, kvalitativno stanje, ekološko stanje, te stanje podzemnih voda, priprema planova upravljanja riječnim slivovima za svoj oblasni riječni sliv, priprema planova, elaborata i projekata za sprečavanje i smanjenje štetnih uticaja na vode, preduzimanje hitnih mjere na sprečavanju, ili smanjenju uticaja štetnih pojava na vode, izdavanje vodopravnih akata u skladu sa zakonom, promovisanje, organizacija i pomoć za istraživački rad u oblasti vodnih resursa i njihovog održivog upravljanja, podizanje javne svijesti u odnosu na vodne resurse,	
Koji prostorni obuhvat najbolje odražava Vaš rad i aktivnosti? (Molimo koristiti postotke/procente u procjenjivanju tako da ukupno na kraju bude 100%) Primjer: lokalni -55%. nacionalni -25%, drugo - 20%) lokalni 15 % regionalni 60 % nacionalni 25% internacionalni _ % drugo, (imenovati) : _____, _ %	
Koji su glavni problemi u upravljanju sistemima za vodosnabdjevanje/postojeći problemi? (Molimo rangirati: 1 najznačajniji , 5 najmanje značajan, moguće je zabilježiti dva problema kao najznačajnija)	
1 <input type="checkbox"/> Gubici vode 4 <input type="checkbox"/> Kvantitet 4 <input type="checkbox"/> Kvalitet 2 <input type="checkbox"/> Tarifa vode	

- 5 ☐ zakonodavstvo i politički okvir 1 ☐ nedostatak sredstava 2 ☐ Infrastruktura
 3 ☐ kapaciteti: ☐ institucionalni ☐ tehnički ☐ ljudski
 3 ☐ klimatske promjene ☐ slaba suradnja ☐ drugo (navesti) :

Molimo rangirati slijedeće prema prethodno spomenutim problemima:

(Molimo rangirati: 1 najznačajniji , 5 najmanje značajan, moguće je zabilježiti dva problema kao najznačajnija)

GUBICI VODE

- 5 ☐ nezakonita potrošnja 3 ☐ greške u mjerenju utroška vode 1 ☐ gubici u distributivnoj mreži
 2 ☐ curenja u distributivnoj mreži 4 ☐ curenje vode iz drugih postrojenja
☐ drugo, molim navesti

KVANTITET

- ☐ povećano korištenje voda 2 ☐ sezonske fluktuacije 4 ☐ kapacitet rezervoara
 1 ☐ promjene u namjeni/korištenju zemljišta 3 ☐ velika potrošnja od strane drugih sektora (poljoprivreda, industrija, isl.)
 5 ☐ Klimatske promjene ☐ drugo, molim navesti

KVALITET

- ☐ točkasti izvori zagađenja ☐ difuzno zagađenje ☐ problemi u zaštiti izvorišta
☐ promjene u namjeni/korištenju zemljišta ☐ sezonske fluktuacije ☐ Klimatske promjene
☐ drugo, molim navesti

OGRANIČENJA/REDUKCIJE U DISTRIBUCIJI VODE

- 2 ☐ neodgovarajuća mreža 2 ☐ kapaciteti pumpnih stanica 4 ☐ nedostaci u rezervoarima
 1 ☐ slabo održavanje vodovodnog sistema 5 ☐ starost sistema
☐ drugo, molim navesti

Koje su glavne prepreke za upravljanje sistemom vodosnabdijevanja u bliskoj budućnosti (slijedećih 25 do 30 godina)?

(Molimo rangirati: 1 najznačajniji , 5 najmanje značajan, moguće je zabilježiti dva problema kao najznačajnija)

- 2 ☐ Gubici vode 1 ☐ Kvantitet 2 ☐ Kvaliteta 2 ☐ Tarifa vode
☐ zakonodavstvo i politički okvir ☐ nedostatak sredstava 3 ☐ Infrastruktura
 5 ☐ kapaciteti: ☐ institucionalni ☐ tehnički ☐ ljudski
 2 ☐ klimatske promjene ☐ slaba suradnja ☐ drugo (navesti) :

Koji su najvažniji koraci i aktivnosti koje će poboljšati opskrbu vodom u smislu navedenih problema i ograničenja?

SANACIJA POSTOJEĆE MREŽE, DRUGAČIJI ORGANIZACIONI PRISTUP PROBLEMU VODOSNABDIJEVANJA

Mislite li da se neka multidisciplinarna pitanja mogu riješiti na slijedeći način:

(Molimo rangirati: 1 najznačajniji , 5 najmanje značajan, moguće je zabilježiti dva problema kao najznačajnija)

- 4 ☐ Politikom kojima će se obuhvatiti većina problema
4 ☐ Različitim politikama kojima će se obuhvatiti većina problema
☐ Boljom suradnjom između različitih sektora
3 ☐ Boljom suradnjom između lokalnih i nacionalnih vlasti
2 ☐ Sa više financijskih resursa
1 ☐ Odgovarajućom tarifom vode
☐ drugo (navesti) :

Navedite tri najznačajnija faktora/aktivnosti za poboljšanje sustava vodoopskrbe i gospodarenja vodnim resursima:

- **SMANJSNE GUBITAKA**
- **ZAŠTITA IZVORIŠTA U CILJU OBEZBJEĐENJA DOBROG KVALITETA PODZEMNE I POVRŠINSKE VODE**
- **KONSTANTAN MONITORING**
- **NOVA EKONOMSKA CIJENA VODE UZ UČEŠĆE I DRŽAVNE VLASTI U ODREĐENOM POSTOTKU**

Koje su radnje koje vaša institucija/organizacija može poduzeti kako bi poboljšala sistem vodosnabdjevanja, upravljanje vodnim resursima i održivosti istog?

VODOSNABDIJEVANJE JE, PO ZAKONU RS-a, U DOMENU LOKALNE VLASTI A NAŠA INSTITUCIJA MOŽE SAMO DA BUDE SUFINANSIJER (AKO IMA SRESTAVA ????)

Mislite li da samo aktivnosti države doprinose poboljšanju sistema vodosnabdjevanja/sustava vodoopskrbe:

☐ DA ☒ NE

Ako je odgovor NE, molimo navesti i ostale institucionalne razine od značaja:
STRUČNE INSTITUCIJE

Vaše poznavanje/znanje uloge i aktivnosti bilateralnih komisija, koje su od značaja za prekogranične/regionalne vodoopskrbne sisteme i upravljanje vodama:

☐ Opsežno ☒ Umjereno ☐ Oskudno

PODKOMISIJA ZA SLIV JADRANSKOG MORA (VODOGOSPODARSKI ODNOSI RH i BiH)

Vaše poznavanje/znanje uloge i aktivnosti lokalnih vlasti od značaja za prekogranične/regionalne vodoopskrbne sisteme i upravljanje vodama:

☐ Opsežno ☐ Umjereno ☒ Oskudno

Postoje li zakonski okviri u Vašoj državi/regiji (pravilnici, ugovori, Memorandumi o razumijevanju, i sl.) koji su značajni za prekogranične/regionalne sisteme vodosnabdjevanja i upravljanje vodnim resursima:

☐ DA ☐ NE

Ako je odgovor DA navesti dokument:

UGOVOR IZMEĐU VLADE REPUBLIKE HRVATSKE I VLADE BOSNE I HERCEGOVINE O UREĐENJU

VODODGOSPODARSKIH ODNOSA (Objavljen Narodne Novine RH od 16. Listopada 1996 godine – strana 520)

<p>Vaše poznavanje problema/ograničenja u pogledu prekograničnih izvorišta vode za piće:</p> <p><input type="checkbox"/> Opsežno <input checked="" type="checkbox"/> Umjereno <input type="checkbox"/> Oskudno</p> <p>Molimo ukoliko postoje dodatni komentari iste navesti:</p>
<p>Razina provedbe planova upravljanja vodnim područjima na nacionalnoj razini:</p> <p><input type="checkbox"/> Završena <input type="checkbox"/> U toku <input checked="" type="checkbox"/> Početna</p> <p>Molimo ukoliko postoje dodatni komentari iste navesti: U PRIPREMI PRVI PLAN UPRAVLJANJA OBLASNIM RIJEČNIM SLIVO TREBIŠNJICE U REPUBLICI SRPSKOJ</p>
<p>Razina provedbe planova upravljanja slivom (prekogranični riječni slivovi):</p> <p><input type="checkbox"/> Završena <input type="checkbox"/> U toku <input type="checkbox"/> Početna</p> <p>Molimo ukoliko postoje dodatni komentari iste navesti: U PRIPREMI</p>
<p>Koje su najznačajnije teme sa kojima bi željeli da se bolje upoznate u vezi prekograničnih vodoopskrbnih sustava/sistema vodosnabdijevanja i upravljanja prekograničnim vodnim resursima?</p> <ul style="list-style-type: none"> - ZAKONSKA REGULATIVA OZ OVE OBLASTI - MJERE ZAŠTITE VODNIH TIJELA - EKONOMSKA ANALIZA DOBROG STATUSA VODA
<p>Smatrate li da je tip radionica/okruglih stolova na ovu temu koristan:</p> <p><input checked="" type="checkbox"/> Da <input type="checkbox"/> Ne <input type="checkbox"/> Suzdržan</p>
<p>Dodatni komentari</p>

QUESTIONNAIRE ON CROSS BORDER /REGIONAL WATER SUPPLY SYSTEMS AND WATER RESOURCES MANAGEMENT

The Capitalization and sustainability activity (CS) is an important project component that would provide framework for exchange of relevant information of significance for cross- border/ regional water supply systems among stakeholders, authorities, research institutions, etc.

Yours feedbacks collected during the national workshops provide valuable inputs and contribute to successful DRINKADRIA project implementation.

Name:	Nenad
Surname:	Đukić
Institution/ Organization: (If you wish to remain anonymous, please do not fill)	Ministarstvo poljoprivrede, šumarstva i vodoprivrede Republike Srpske, resor VODOPRIVREDE

Your Institution/ Organization mission /main scope of the work:

☐ Water utility ☐ Authority : ☐ local ☐ regional ☐ national
☐ Research Organization ☐ Water Association ☒ Other (please specify):

Your activities are mainly focused on :

☒ water supply ☒ water protection ☐ education/research
☒ international cooperation ☐ financial/ legislative ☒ other, namely :

What spatial scale reflects the best your activities and tasks?
(Please use percentile estimation in a way that total amount is 100%)
Example: local -55%. national -25%, other - 20%)

local 15_% regional 15_% national 60_% international 10% other, namely : _____, _%

What are the main water supply management issues/ problems at the present?
(Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

1 ☐ Losses 4 ☐ Quantity 4 ☐ Quality 2 ☐ Water tariffs
 5 ☐ legislation and policy framework ☐ Lack of funding 2 ☐ Infrastructure
 3 ☐ Capacities : ☐ institutional ☐ technical ☐ human
 3 ☐ Climate change ☐ Weak Cooperation ☐ Other, namely :

Please rank the following in terms of before mentioned issues/problems:
(Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

LOSSES

- | | | |
|---|--|---|
| 5 <input type="checkbox"/> unauthorized consumption | 3 <input type="checkbox"/> metering errors | 1 <input type="checkbox"/> distribution network leakage |
| 2 <input type="checkbox"/> distribution network leakage | 4 <input type="checkbox"/> water supply facilities leakage | |
| <input type="checkbox"/> other, please specify | | |

QUANTITY

- | | | |
|--|---|---|
| <input type="checkbox"/> increase in water use | 2 <input type="checkbox"/> seasonal fluctuations | 4 <input type="checkbox"/> water storage capacities |
| 1 <input type="checkbox"/> changes in land use practices | 3 <input type="checkbox"/> high consumption by other sectors (agriculture, industry, etc) | |
| 5 <input type="checkbox"/> Climate Change | <input type="checkbox"/> other, please specify | |

QUALITY

- | | | |
|--|--|---|
| 4 <input type="checkbox"/> point source pollution | 2 <input type="checkbox"/> nonpoint source pollution | 1 <input type="checkbox"/> source protection issues |
| 3 <input type="checkbox"/> changes in land use practices | 5 <input type="checkbox"/> seasonal fluctuation | <input type="checkbox"/> Climate Change |
| <input type="checkbox"/> other, please specify | | |

WATER SUPPLY DISTRIBUTION CONSTRAINS

- | | | |
|---|--|--|
| 2 <input type="checkbox"/> inadequate network | 3 <input type="checkbox"/> pumping stations capacities | 4 <input type="checkbox"/> reservoirs deficiency |
| 1 <input type="checkbox"/> poor maintenance of water supply distribution system | 5 <input type="checkbox"/> ageing | |
| <input type="checkbox"/> other, please specify | | |

What are the main water supply management constrains in the near future (next 25- 30 years) ?
(Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

- | | | | |
|--|--|---|--|
| 3 <input type="checkbox"/> Losses | 1 <input type="checkbox"/> Quantity | 2 <input type="checkbox"/> Quality | 3 <input type="checkbox"/> Water tariffs |
| <input type="checkbox"/> legislation and policy framework | <input type="checkbox"/> Lack of funding | 4 <input type="checkbox"/> Infrastructure | |
| 5 <input type="checkbox"/> Capacities : <input type="checkbox"/> institutional <input type="checkbox"/> technical <input type="checkbox"/> human | | | |
| 2 <input type="checkbox"/> Climate change <input type="checkbox"/> Weak Cooperation <input type="checkbox"/> Other, namely | | | |

What are the most important steps and activities that would improve water supply in terms of aforementioned issues and constrains?

Potpuna promena pristupa vodosnabdevanju.

Do you think that some cross-cutting issues can be solved by:

(Please rank them: 1 the most significant , 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

- ☐ Policy that would address the majority of issues
☐ Separate policies that would address the majority of issues
☐ Better cooperation among different sectors
3 ☐ Better cooperation among local and national authorities
2 ☐ More financial resources
1 ☐ Water tariffs
☐ Other, namely :

Please list the 3 most significant actors/ actions for improved water supply and water resources management:

- POSTOJEĆE STANJE I HIDROMODEL
- MONITORING, MERENJE, SCADA
- SMANJENJE GUBITAKA

What are the actions that your institution/ organization might take to improve water supply and water resources management and contribute to its sustainability?

Nema ih puno, jer te aktivnosti nisu u domenu našeg Ministarstva I resora

Do you think that only state activities contribute to improved water supply:

- ☐ YES ☒ No

If the answer is NO please list other institutional levels of significance: **STRU KOVNE I STRU ČNE INSTITUCIJE**

Your familiarity/ knowledge with role and activities of Bilateral Commissions of significance for cross – border/ regional water supply and water resources management:

- ☐ Comprehensive ☐ Moderate ☒ Deficient **RADI LI SE UOPŠTE NEŠTO PO TOM PITANJU ?**

Your familiarity/ knowledge with role and activities of Local Authorities of significance for cross – border/ regional water supply:

- ☐ Comprehensive ☐ Moderate ☒ Deficient **RADI LI SE UOPŠTE NEŠTO PO TOM PITANJU ?**

Are there legislative frameworks (treaties, agreements, Memorandum of Understanding, etc.) that are significant for cross-border/ regional water supply systems and water resource management you are familiar with in your country/region:

- ☐ YES ☐ No

If the answer is yes, please provide the title

Nemam saznanja o tome, mada mislim da nema

Your familiarity with issues/ constraints regarding cross- border / regional water resources:

☐ Comprehensive ☒ Moderate ☐ Deficient

Please provide additional comments if any:

Implementation level of River basin Management Plans at the national level:

☐ Completed ☐ Ongoing ☒ Pending

Please provide additional comments if any:

Implementation level of River basin Management Plans (transboundary river basins) :

☐ Completed ☐ Ongoing ☒ Pending

Please provide additional comments if any:

What are the most important topics that you would like to become more familiar regarding to cross- border /regional water supply systems and water resources management?

Osnovne postavke, principi aktivnosti, metodologije, pristupi, domeni i nivoi odlučivanja i učestvovanja

Do you consider this type of workshops/roundtables useful:

☒ Yes ☐ No ☐ Neutral

Additional Comments:

QUESTIONNAIRE ON CROSS BORDER /REGIONAL WATER SUPPLY SYSTEMS AND WATER RESOURCES MANAGEMENT

The Capitalization and sustainability activity (CS) is an important project component that would provide framework for exchange of relevant information of significance for cross- border/ regional water supply systems among stakeholders, authorities, research institutions, etc.

Yours feedbacks collected during the national workshops provide valuable inputs and contribute to successful DRINKADRIA project implementation.

Name:	
Surname:	
Institution/ Organization: (If you wish to remain anonymous, please do not fill)	Ministry of Agriculture, Forestry and Water Management of the Herzegovina-Neretva Canton

Your Institution/ Organization mission /main scope of the work:

☐ Water utility ☒ Authority : ☐ local ☐ regional ☐ national
☐ Research Organization ☐ Water Association ☐ Other (please specify):

Your activities are mainly focused on :

☒ water supply ☒ water protection ☐ education/research
☐ international cooperation ☐ financial/ legislative ☐ other, namely :

What spatial scale reflects the best your activities and tasks?
(Please use percentile estimation in a way that total amount is 100%)
Example: local -55%. national -25%, other - 20%)

local 95 % regional % national % international 5 % other, namely : , %

What are the main water supply management issues/ problems at the present?
(Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

❶ Losses ❷ Quantity ❸ Quality ☐ Water tariffs
☐ legislation and policy framework ❹ Lack of funding ☐ Infrastructure
 ❺ Capacities : ☐ institutional ☐ technical ☐ human
☐ Climate change ☐ Weak Cooperation ☐ Other, namely :

Please rank the following in terms of before mentioned issues/problems:
(Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

LOSSES

- | | | |
|---|--|---|
| <input type="checkbox"/> unauthorized consumption | <input type="checkbox"/> metering errors | <input checked="" type="radio"/> distribution network leakage |
| <input checked="" type="radio"/> distribution network leakage | <input type="checkbox"/> water supply facilities leakage | |
| <input type="checkbox"/> other, please specify | | |

QUANTITY

- | | | |
|--|---|---|
| <input type="checkbox"/> increase in water use | <input checked="" type="radio"/> seasonal fluctuations | <input type="checkbox"/> water storage capacities |
| <input type="checkbox"/> changes in land use practices | <input type="checkbox"/> high consumption by other sectors (agriculture, industry, etc) | |
| <input type="checkbox"/> Climate Change | <input type="checkbox"/> other, please specify | |

QUALITY

- | | | |
|--|--|---|
| <input type="checkbox"/> point source pollution | <input type="checkbox"/> nonpoint source pollution | <input checked="" type="radio"/> source protection issues |
| <input type="checkbox"/> changes in land use practices | <input type="checkbox"/> seasonal fluctuation | <input type="checkbox"/> Climate Change |
| <input type="checkbox"/> other, please specify | | |

WATER SUPPLY DISTRIBUTION CONSTRAINS

- | | | |
|---|--|--|
| <input type="checkbox"/> inadequate network | <input type="checkbox"/> pumping stations capacities | <input type="checkbox"/> reservoirs deficiency |
| <input checked="" type="radio"/> poor maintenance of water supply distribution system | | <input checked="" type="radio"/> ageing |
| <input type="checkbox"/> other, please specify | | |

What are the main water supply management constrains in the near future (next 25- 30 years) ?
(Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

- | | | | |
|--|--|--|--|
| <input checked="" type="radio"/> Losses | <input checked="" type="radio"/> Quantity | <input checked="" type="radio"/> Quality | <input type="checkbox"/> Water tariffs |
| <input type="checkbox"/> legislation and policy framework | <input checked="" type="radio"/> Lack of funding | <input type="checkbox"/> Infrastructure | |
| <input checked="" type="radio"/> Capacities : <input type="checkbox"/> institutional <input type="checkbox"/> technical <input type="checkbox"/> human | | | |
| <input type="checkbox"/> Climate change <input type="checkbox"/> Weak Cooperation <input type="checkbox"/> Other, namely | | | |

What are the most important steps and activities that would improve water supply in terms of aforementioned issues and constrains?

The most important thing would be to perform renovation/upgrading or new system building with the highest possible degree of automation in the work. (Managing and maintaining with the optimum number of personnel.)

Do you think that some cross-cutting issues can be solved by:

(Please rank them: 1 the most significant , 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

- ☒ Policy that would address the majority of issues

<p><input checked="" type="radio"/> 2 Separate policies that would address the majority of issues</p> <p><input type="checkbox"/> Better cooperation among different sectors</p> <p><input checked="" type="radio"/> 4 Better cooperation among local and national authorities</p> <p><input checked="" type="radio"/> 3 More financial resources</p> <p><input checked="" type="radio"/> 5 Water tariffs</p> <p><input type="checkbox"/> Other, namely :</p>
<p>Please list the 3 most significant actors/ actions for improved water supply and water resources management:</p> <ol style="list-style-type: none"> 1. Creating documentation necessary to establish drinking water sources protection zones and its implementation, 2. Bringing water supply system in the correct state mining the maximum possible automation of the system, 3. Properly charging and billing of delivered water.
<p>What are the actions that your institution/ organization might take to improve water supply and water resources management and contribute to its sustainability?</p> <p>Performing its statutory activities.</p>
<p>Do you think that only state activities contribute to improved water supply:</p> <p><input checked="" type="checkbox"/> YES <input type="checkbox"/> No</p> <p>If the answer is NO please list other institutional levels of significance:</p>
<p>Your familiarity/ knowledge with role and activities of Bilateral Commissions of significance for cross – border/ regional water supply and water resources management:</p> <p><input type="checkbox"/> Comprehensive <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Deficient</p>
<p>Your familiarity/ knowledge with role and activities of Local Authorities of significance for cross – border/ regional water supply:</p> <p><input type="checkbox"/> Comprehensive <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Deficient</p>
<p>Are there legislative frameworks (treaties, agreements, Memorandum of Understanding, etc.) that are significant for cross-border/ regional water supply systems and water resource management you are familiar with in your country/region:</p> <p><input checked="" type="checkbox"/> YES <input type="checkbox"/> No</p> <p>If the answer is yes, please provide the title</p>
<p>Your familiarity with issues/ constrains regarding cross- border / regional water resources:</p> <p><input type="checkbox"/> Comprehensive <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Deficient</p>

<p>Please provide additional comments if any:</p>
<p>Implementation level of River basin Management Plans at the national level:</p> <p style="text-align: center;"><input type="checkbox"/> Completed <input checked="" type="checkbox"/> Ongoing <input type="checkbox"/> Pending</p> <p>Please provide additional comments if any:</p>
<p>Implementation level of River basin Management Plans (transboundary river basins) :</p> <p style="text-align: center;"><input type="checkbox"/> Completed <input checked="" type="checkbox"/> Ongoing <input type="checkbox"/> Pending</p> <p>Please provide additional comments if any:</p>
<p>What are the most important topics that you would like to become more familiar regarding to cross- border /regional water supply systems and water resources management?</p> <p>1. The issue of drinking water sources protection</p>
<p>Do you consider this type of workshops/roundtables useful:</p> <p style="text-align: center;"><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Neutral</p>
<p>Additional Comments:</p>

QUESTIONNAIRE ON CROSS BORDER /REGIONAL WATER SUPPLY SYSTEMS AND WATER RESOURCES MANAGEMENT

The Capitalization and sustainability activity (CS) is an important project component that would provide framework for exchange of relevant information of significance for cross- border/ regional water supply systems among stakeholders, authorities, research institutions, etc.

Yours feedbacks collected during the national workshops provide valuable inputs and contribute to successful DRINKADRIA project implementation.

Name:	Zlatan
Surname:	Čizmić
Institution/ Organization: (If you wish to remain anonymous, please do not fill)	Municipality of Bihać, Department of Public Utilities, Water, Environment and Inspections

Your Institution/ Organization mission /main scope of the work:

☐ Water utility ☒ Authority : ☒ local ☐ regional ☐ national
☐ Research Organization ☐ Water Association ☐ Other (please specify):

Your activities are mainly focused on :

☒ water supply ☒ water protection ☐ education/research
☐ international cooperation ☐ financial/ legislative ☐ other, namely :

What spatial scale reflects the best your activities and tasks?
(Please use percentile estimation in a way that total amount is 100%)
Example: local -55%. national -25%, other - 20%)

local 90 % regional 10 % national % international % other, namely : , %

What are the main water supply management issues/ problems at the present?
(Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

❶ Losses ☐ Quantity ☐ Quality ❹ Water tariffs
☐ legislation and policy framework ❸ Lack of funding ❷ Infrastructure
 ❺ Capacities : ☐ institutional ☐ technical ☐ human
☐ Climate change ☐ Weak Cooperation ☐ Other, namely :

Please rank the following in terms of before mentioned issues/problems:

(Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

LOSSES

- ☐ unauthorized consumption ☒ metering errors ☒ distribution network leakage
☒ distribution network leakage ☐ water supply facilities leakage
☒ other, please specify, lack of measuring equipment for monitoring the state of the pipelines (flow meters at the sources and zonal gauges, pressure gauges), equipment for regulation of the system (probe for level measurement in tanks and turn off the pumps, control valves, motorized valves ..), introduction and ending of the telemetry system

QUANTITY

- ☒ increase in water use ☒ seasonal fluctuations ☒ water storage capacities
☐ changes in land use practices ☐ high consumption by other sectors (agriculture, industry, etc)
☐ Climate Change ☐ other, please specify

QUALITY

- ☒ point source pollution ☐ nonpoint source pollution ☒ source protection issues
☐ changes in land use practices ☐ seasonal fluctuation ☒ Climate Change
☐ other, please specify

WATER SUPPLY DISTRIBUTION CONSTRAINS

- ☒ inadequate network ☐ pumping stations capacities ☐ reservoirs deficiency
☐ poor maintenance of water supply distribution system ☐ ageing
☐ other, please specify

What are the main water supply management constrains in the near future (next 25- 30 years) ?

(Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

- ☒ Losses ☐ Quantity ☐ Quality ☐ Water tariffs
☐ legislation and policy framework ☒ Lack of funding ☒ Infrastructure
☒ Capacities : ☐ institutional ☐ technical ☐ human
☒ Climate change ☐ Weak Cooperation ☐ Other, namely

What are the most important steps and activities that would improve water supply in terms of aforementioned issues and constrains?

Contract between Municipality and the PU, monitoring systems, the introduction of good governance, reconstruction or construction of parts of the system, reorganization of the PU.

Do you think that some cross-cutting issues can be solved by:

(Please rank them: 1 the most significant , 5 the least significant, it is possible assign the same rank to

<p>maximum two issues/problems)</p> <p><input type="checkbox"/> Policy that would address the majority of issues</p> <p>❶ Separate policies that would address the majority of issues</p> <p>❷ Better cooperation among different sectors</p> <p>❸ Better cooperation among local and national authorities</p> <p>❹ More financial resources</p> <p>❺ Water tariffs</p> <p><input type="checkbox"/> Other, namely :</p>
<p>Please list the 3 most significant actors/ actions for improved water supply and water resources management:</p> <p>Regular monitoring, frequently system analyses reorganization, reliable funding</p>
<p>What are the actions that your institution/ organization might take to improve water supply and water resources management and contribute to its sustainability?</p> <p>Strategic planning in the field of Water Supply (revised Strategic Plan for water and environmental sanitation of Bihać), capacity building in the field of WS in municipal services, PUC, PU, PI, monitoring and improvement of legislation and policy framework.</p>
<p>Do you think that only state activities contribute to improved water supply:</p> <p><input type="checkbox"/> YES <input checked="" type="checkbox"/> No</p> <p>If the answer is NO please list other institutional levels of significance:</p> <p>Activities at the federal, cantonal,-regional and municipal level and of course the cross-border level (interstate)</p>
<p>Your familiarity/ knowledge with role and activities of Bilateral Commissions of significance for cross – border/ regional water supply and water resources management:</p> <p><input type="checkbox"/> Comprehensive <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Deficient</p>
<p>Your familiarity/ knowledge with role and activities of Local Authorities of significance for cross – border/ regional water supply:</p> <p><input type="checkbox"/> Comprehensive <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Deficient</p>
<p>Are there legislative frameworks (treaties, agreements, Memorandum of Understanding, etc.) that are significant for cross-border/ regional water supply systems and water resource management you are familiar with in your country/region:</p> <p><input checked="" type="checkbox"/> YES <input type="checkbox"/> No</p> <p>If the answer is yes, please provide the title</p>

<p>It is known that there is the International Commission for water management cooperation between Bosnia and Herzegovina and the Croatia who needs to work on the issue of protection of catchment areas of the drinking water sources Klokot Privilica, Ostrovica and Toplice.</p>
<p>Your familiarity with issues/ constrains regarding cross- border / regional water resources:</p> <p><input checked="" type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input type="checkbox"/> Deficient</p> <p>Please provide additional comments if any:</p> <p>The problem of the pollution degree and possible pollution of water sources from the Croatian side from all surface water and groundwater gravitate to Una River.</p> <p>At the end of 2013 the project "Development studies establish source protection zones Klokot (Bihać) was approved by World Bank slashed the interstate border." The project will be implemented with the relevant institutions of Bosnia and Herzegovina and the Croatia.</p>
<p>Implementation level of River basin Management Plans at the national level:</p> <p><input type="checkbox"/> Completed <input type="checkbox"/> Ongoing <input checked="" type="checkbox"/> Pending</p> <p>Please provide additional comments if any:</p>
<p>Implementation level of River basin Management Plans (transboundary river basins) :</p> <p><input type="checkbox"/> Completed <input type="checkbox"/> Ongoing <input checked="" type="checkbox"/> Pending</p> <p>Please provide additional comments if any:</p>
<p>What are the most important topics that you would like to become more familiar regarding to cross- border /regional water supply systems and water resources management?</p> <p>Water Source Protection Zones and protection measures to be imposed on the basis of the Law on Water of BiH and Croatia and also EU Water Directives</p>
<p>Do you consider this type of workshops/roundtables useful:</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Neutral</p>
<p>Additional Comments:</p> <p>Everything that is listed in this questionnaire is on the basis of available data and experience in the Department of Public Utilities, Water companies, Environment and Inspections. Please note that the municipality of Bihac participated in the implementation of the Project in Municipal Water and Environmental Project GOWADE in the period 2007 - 2013 in cooperation with the Swiss Agency for Development and SDC UnaConsulting Resource Centre for Water and Environment Bihac , and during this it was done about 50 activities and projects in the field of water supply, sewerage and waste water treatment, protection of water, solid waste and local government and its partners. The project was aimed at improving governance in the field of water and environmental sanitation,</p>

but the focus of the project is the improvement of the overall practice of good governance, good governance, and the following principles: strategy, legality, economy, efficiency, consensus, cooperation, responsibility, transparency, commitment and communication. From the project originated Aquasana network of BiH for the purpose of improving the water sector and environmental protection through information, knowledge, experience and good practice.

QUESTIONNAIRE ON CROSS BORDER /REGIONAL WATER SUPPLY SYSTEMS AND WATER RESOURCES MANAGEMENT

The Capitalization and sustainability activity (CS) is an important project component that would provide framework for exchange of relevant information of significance for cross- border/ regional water supply systems among stakeholders, authorities, research institutions, etc.

Yours feedbacks collected during the national workshops provide valuable inputs and contribute to successful DRINKADRIA project implementation.

Name:	Miroslav
Surname:	Bilčar
Institution/ Organization: (If you wish to remain anonymous, please do not fill)	Opština Bosansko Grahovo, Vojislava Ivetića br. 2 Bosansko Grahovo

Your Institution/ Organization mission /main scope of the work:

☐ Water utility ☒ Authority : ☒ local ☐ regional ☐ national
☐ Research Organization ☐ Water Association ☐ Other (please specify):

Your activities are mainly focused on :

☒ water supply ☐ water protection ☐ education/research
☐ international cooperation ☐ financial/ legislative ☐ other, namely :

What spatial scale reflects the best your activities and tasks?
(Please use percentile estimation in a way that total amount is 100%)
Example: local -55%. national -25%, other - 20%)

local 100 % regional % national % international % other, namely : , %

What are the main water supply management issues/ problems at the present?
(Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

① Losses ② Quantity ⑤ Quality ⑤ Water tariffs
 ⑤ legislation and policy framework ③ Lack of funding ④ Infrastructure
 ⑤ Capacities : ⑤ institutional ⑤ technical ⑤ human

☐ Climate change ☐ Weak Cooperation ☐ Other, namely :

Please rank the following in terms of before mentioned issues/problems:

(Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

LOSSES

- | | | |
|---|--|---|
| <input type="checkbox"/> unauthorized consumption | <input type="checkbox"/> metering errors | <input checked="" type="radio"/> 1 distribution network leakage |
| <input type="checkbox"/> distribution network leakage | <input type="checkbox"/> water supply facilities leakage | |
| <input type="checkbox"/> other, please specify | | |

QUANTITY

- | | | |
|--|---|---|
| <input type="checkbox"/> increase in water use | <input checked="" type="radio"/> 1 seasonal fluctuations | <input checked="" type="radio"/> 2 water storage capacities |
| <input type="checkbox"/> changes in land use practices | <input type="checkbox"/> high consumption by other sectors (agriculture, industry, etc) | |
| <input checked="" type="radio"/> 3 Climate Change | <input type="checkbox"/> other, please specify | |

QUALITY

- | | | |
|--|---|---|
| <input type="checkbox"/> point source pollution | <input type="checkbox"/> nonpoint source pollution | <input type="checkbox"/> source protection issues |
| <input type="checkbox"/> changes in land use practices | <input checked="" type="radio"/> 1 seasonal fluctuation | <input checked="" type="radio"/> 2 Climate Change |
| <input type="checkbox"/> other, please specify | | |

WATER SUPPLY DISTRIBUTION CONSTRAINS

- | | | |
|---|--|--|
| <input type="checkbox"/> inadequate network | <input type="checkbox"/> pumping stations capacities | <input type="checkbox"/> reservoirs deficiency |
| <input checked="" type="radio"/> 3 poor maintenance of water supply distribution system | | <input type="checkbox"/> ageing |
| <input type="checkbox"/> other, please specify | | |

What are the main water supply management constrains in the near future (next 25- 30 years) ?

(Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

- | | | | |
|--|--|---|--|
| <input checked="" type="radio"/> 1 Losses | <input checked="" type="radio"/> 3 Quantity | <input type="checkbox"/> Quality | <input type="checkbox"/> Water tariffs |
| <input type="checkbox"/> legislation and policy framework | <input checked="" type="radio"/> 2 Lack of funding | <input type="checkbox"/> Infrastructure | |
| <input type="checkbox"/> Capacities : <input type="checkbox"/> institutional <input type="checkbox"/> technical <input type="checkbox"/> human | | | |
| <input type="checkbox"/> Climate change | <input type="checkbox"/> Weak Cooperation | <input type="checkbox"/> Other, namely | |

What are the most important steps and activities that would improve water supply in terms of aforementioned issues and constrains?

Do you think that some cross-cutting issues can be solved by:

(Please rank them: 1 the most significant , 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

- | |
|--|
| <input type="checkbox"/> Policy that would address the majority of issues |
| <input type="checkbox"/> Separate policies that would address the majority of issues |

<input type="checkbox"/> Better cooperation among different sectors <input type="checkbox"/> Better cooperation among local and national authorities <input checked="" type="radio"/> More financial resources <input type="checkbox"/> Water tariffs <input type="checkbox"/> Other, namely :
<p>Please list the 3 most significant actors/ actions for improved water supply and water resources management:</p> <ul style="list-style-type: none"> • Providing of necessary funding's, • Reconstruction of distribution network, pumping stations and reservoirs, • Water tariffs and charges.
<p>What are the actions that your institution/ organization might take to improve water supply and water resources management and contribute to its sustainability?</p> <p>Due to the lack of funds, it is impossible to organize regular maintenance of the water systems, and the organization is not capable to undertake any activities or actions for the improving of the the water supply system and water resources management.</p>
<p>Do you think that only state activities contribute to improved water supply:</p> <p><input checked="" type="checkbox"/> YES <input type="checkbox"/> No</p> <p>If the answer is NO please list other institutional levels of significance:</p>
<p>Your familiarity/ knowledge with role and activities of Bilateral Commissions of significance for cross – border/ regional water supply and water resources management:</p> <p><input type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Deficient</p>
<p>Your familiarity/ knowledge with role and activities of Local Authorities of significance for cross – border/ regional water supply:</p> <p><input type="checkbox"/> Comprehensive <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Deficient</p>
<p>Are there legislative frameworks (treaties, agreements, Memorandum of Understanding, etc.) that are significant for cross-border/ regional water supply systems and water resource management you are familiar with in your country/region:</p> <p><input type="checkbox"/> YES <input type="checkbox"/> No</p> <p>If the answer is yes, please provide the title</p> <p>We are not familiar with current legislation.</p>
<p>Your familiarity with issues/ constrains regarding cross- border / regional water resources:</p>

<input type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Deficient Please provide additional comments if any:
Implementation level of River basin Management Plans at the national level: <div style="text-align: center;"> <input type="checkbox"/> Completed <input type="checkbox"/> Ongoing <input checked="" type="checkbox"/> Pending </div> Please provide additional comments if any:
Implementation level of River basin Management Plans (transboundary river basins) : <div style="text-align: center;"> <input type="checkbox"/> Completed <input type="checkbox"/> Ongoing <input checked="" type="checkbox"/> Pending </div> Please provide additional comments if any:
What are the most important topics that you would like to become more familiar regarding to cross- border /regional water supply systems and water resources management? For us all topics are important and we want to be familiar with all topics of this project.
Do you consider this type of workshops/roundtables useful: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Neutral
Additional Comments:

QUESTIONNAIRE ON CROSS BORDER /REGIONAL WATER SUPPLY SYSTEMS AND WATER RESOURCES MANAGEMENT

The Capitalization and sustainability activity (CS) is an important project component that would provide framework for exchange of relevant information of significance for cross- border/ regional water supply systems among stakeholders, authorities, research institutions, etc.

Yours feedbacks collected during the national workshops provide valuable inputs and contribute to successful DRINKADRIA project implementation.

Name:	Ivan
Surname:	Miličević
Institution/ Organization: (If you wish to remain anonymous, please do not fill)	Municipality of Posušje, Coordinator of development projects of Municipality of Posušje,

Your Institution/ Organization mission /main scope of the work:

☐ Water utility ☒ Authority : ☒ local ☐ regional ☐ national
☐ Research Organization ☐ Water Association ☐ Other (please specify):

Your activities are mainly focused on :

☐ water supply ☐ water protection ☐ education/research
☐ international cooperation ☐ financial/ legislative ☒ other, namely : The development of water supply and sewerage infrastructure.

What spatial scale reflects the best your activities and tasks?
(Please use percentile estimation in a way that total amount is 100%)
Example: local -55%. national -25%, other - 20%)

local 100 % regional _ % national _ % international _ % other, namely : _____, _ %

What are the main water supply management issues/ problems at the present?
(Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

☐ Losses ☐ Quantity ☐ Quality ☐ Water tariffs
☐ legislation and policy framework ☐ Lack of funding ☐ Infrastructure
☐ Capacities : ☐ institutional ☐ technical ☐ human
☐ Climate change ☐ Weak Cooperation ☐ Other, namely : Lack of foundings

Please rank the following in terms of before mentioned issues/problems:
(Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

LOSSES

- | | | |
|---|--|---|
| <input type="checkbox"/> unauthorized consumption | <input type="checkbox"/> metering errors | <input type="checkbox"/> distribution network leakage |
| <input type="checkbox"/> distribution network leakage | <input type="checkbox"/> water supply facilities leakage | |
| <input type="checkbox"/> other, please specify | | |

QUANTITY

- | | | |
|--|---|---|
| <input type="checkbox"/> increase in water use | <input type="checkbox"/> seasonal fluctuations | <input type="checkbox"/> water storage capacities |
| <input type="checkbox"/> changes in land use practices | <input type="checkbox"/> high consumption by other sectors (agriculture, industry, etc) | |
| <input type="checkbox"/> Climate Change | <input type="checkbox"/> other, please specify | |

QUALITY

- | | | |
|--|--|---|
| <input type="checkbox"/> point source pollution | <input type="checkbox"/> nonpoint source pollution | <input type="checkbox"/> source protection issues |
| <input type="checkbox"/> changes in land use practices | <input type="checkbox"/> seasonal fluctuation | <input type="checkbox"/> Climate Change |
| <input type="checkbox"/> other, please specify | | |

WATER SUPPLY DISTRIBUTION CONSTRAINS

- | | | |
|---|--|--|
| <input type="checkbox"/> inadequate network | <input type="checkbox"/> pumping stations capacities | <input type="checkbox"/> reservoirs deficiency |
| <input type="checkbox"/> poor maintenance of water supply distribution system | <input type="checkbox"/> ageing | |
| <input type="checkbox"/> other, please specify | | |

What are the main water supply management constrains in the near future (next 25- 30 years) ?
(Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

- | | | | |
|--|---|---|--|
| <input type="checkbox"/> Losses | <input type="checkbox"/> Quantity | <input type="checkbox"/> Quality | <input type="checkbox"/> Water tariffs |
| <input type="checkbox"/> legislation and policy framework | <input type="checkbox"/> Lack of funding | <input type="checkbox"/> Infrastructure | |
| <input type="checkbox"/> Capacities : <input type="checkbox"/> institutional <input type="checkbox"/> technical <input type="checkbox"/> human | | | |
| <input type="checkbox"/> Climate change | <input type="checkbox"/> Weak Cooperation | <input type="checkbox"/> Other, namely | |

What are the most important steps and activities that would improve water supply in terms of aforementioned issues and constrains?

Do you think that some cross-cutting issues can be solved by:

(Please rank them: 1 the most significant , 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

- ☐ Policy that would address the majority of issues

<input type="checkbox"/> Separate policies that would address the majority of issues <input type="checkbox"/> Better cooperation among different sectors <input type="checkbox"/> Better cooperation among local and national authorities <input checked="" type="checkbox"/> More financial resources <input type="checkbox"/> Water tariffs <input type="checkbox"/> Other, namely :
<p>Please list the 3 most significant actors/ actions for improved water supply and water resources management:</p> <ul style="list-style-type: none"> • Continuous improvement of the Organization of the water supply infrastructure management, • Elimination of gray areas (wild terminals), • More water tariffs (eg one sanitary water tariffs, other tariffs water for garden, and third tariff water for agricultural use).
<p>What are the actions that your institution/ organization might take to improve water supply and water resources management and contribute to its sustainability?</p> <p>The application for donor funds projects in order to increase the water supply network and the sewage network</p>
<p>Do you think that only state activities contribute to improved water supply:</p> <p><input checked="" type="checkbox"/> YES <input type="checkbox"/> No</p> <p>If the answer is NO please list other institutional levels of significance:</p>
<p>Your familiarity/ knowledge with role and activities of Bilateral Commissions of significance for cross – border/ regional water supply and water resources management:</p> <p><input type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Deficient</p>
<p>Your familiarity/ knowledge with role and activities of Local Authorities of significance for cross – border/ regional water supply:</p> <p><input checked="" type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input type="checkbox"/> Deficient</p>
<p>Are there legislative frameworks (treaties, agreements, Memorandum of Understanding, etc.) that are significant for cross-border/ regional water supply systems and water resource management you are familiar with in your country/region:</p> <p><input checked="" type="checkbox"/> YES <input type="checkbox"/> No</p> <p>If the answer is yes, please provide the title</p> <p>Bilateral agreements on cooperation between BiH Water Management and Water Management of the Republic of Croatia from the time of ex-Yu</p>

<p>Your familiarity with issues/ constrains regarding cross- border / regional water resources:</p> <p><input checked="" type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input type="checkbox"/> Deficient</p> <p>Please provide additional comments if any:</p> <p>The danger of water sources pollution in southern Herzegovina and Dalmatia is very high, because the lack of sewerage system in the municipality of Posušje and the hydrogeological structure which stormwater, sewage and all other underground water flows directly into water sources at lower altitudes. City of Posušje who has no sewer is at 700 meters above sea level. All the sources below this altitude are threatened by pollution. This is strategically important issue for Herzegovina and Dalmatia because of potential compromising of the sources of drinking water. On this issue several studies and documents existes.</p>
<p>Implementation level of River basin Management Plans at the national level:</p> <p><input type="checkbox"/> Completed <input type="checkbox"/> Ongoing <input type="checkbox"/> Pending</p> <p>Please provide additional comments if any:</p>
<p>Implementation level of River basin Management Plans (transboundary river basins) :</p> <p><input type="checkbox"/> Completed <input type="checkbox"/> Ongoing <input type="checkbox"/> Pending</p> <p>Please provide additional comments if any:</p>
<p>What are the most important topics that you would like to become more familiar regarding to cross- border /regional water supply systems and water resources management?</p> <p>Protection plans for drinking water sources at attitudes lower than Posušje and defining of the protection zones of these sources.</p>
<p>Do you consider this type of workshops/roundtables useful:</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Neutral</p>
<p>Additional Comments:</p> <p>In the priority plans for the protection of drinking water sources and groundwater stocks of drinking water in Herzegovina and Dalmatia compulsory Include the necessity to build a sewage system of Posušje at least of its I phase, which cost 16 million.</p>

QUESTIONNAIRE ON CROSS BORDER /REGIONAL WATER SUPPLY SYSTEMS AND WATER RESOURCES MANAGEMENT

The Capitalization and sustainability activity (CS) is an important project component that would provide framework for exchange of relevant information of significance for cross- border/ regional water supply systems among stakeholders, authorities, research institutions, etc.

Yours feedbacks collected during the national workshops provide valuable inputs and contribute to successful DRINKADRIA project implementation.

Name:	Ljuba
Surname:	Goluža
Institution/ Organization: (If you wish to remain anonymous, please do not fill)	P.C.Utilty Neum

Your Institution/ Organization mission /main scope of the work:

☒ Water utility ☐ Authority : ☐ local ☐ regional ☐ national
☐ Research Organization ☐ Water Association ☐ Other (please specify):

Your activities are mainly focused on :

☒ water supply ☐ water protection ☐ education/research
☐ international cooperation ☐ financial/ legislative ☐ other, namely :

What spatial scale reflects the best your activities and tasks?
(Please use percentile estimation in a way that total amount is 100%
Example: local -55%. national -25%, other - 20%)

local 80 % regional 20 % national _ % international _ % other, namely : _____, _%

What are the main water supply management issues/ problems at the present?
(Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

2 Losses ☐ Quantity 4 Quality 5 Water tariffs
 6 legislation and policy framework 1 Lack of funding 3 Infrastructure
☐ Capacities : ☐ institutional ☐ technical ☐ human
☐ Climate change ☐ Weak Cooperation ☐ Other, namely :

Please rank the following in terms of before mentioned issues/problems:

(Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

LOSSES

- ☐ unauthorized consumption 3 metering errors 2 distribution network leakage
☐ distribution network leakage ☐ water supply facilities leakage
 1 other, please specify - **lack of funding for adequate water supply system recovery**

QUANTITY

- ☐ increase in water use 1 seasonal fluctuations 2 water storage capacities
☐ changes in land use practices ☐ high consumption by other sectors (agriculture, industry, etc)
☐ Climate Change ☐ other, please specify

QUALITY

- ☐ point source pollution ☐ nonpoint source pollution 2 source protection issues
☐ changes in land use practices ☐ seasonal fluctuation ☐ Climate Change
 1 other, please specify - **increased level of chlorides in water**

WATER SUPPLY DISTRIBUTION CONSTRAINS

- 4 inadequate network 3 pumping stations capacities 5 reservoirs deficiency
 1 poor maintenance of water supply distribution system 2 ageing
☐ other, please specify

What are the main water supply management constrains in the near future (next 25- 30 years) ?

(Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

- 2 Losses ☐ Quantity 4 Quality 5 Water tariffs
 6 legislation and policy framework 1 Lack of funding 3 Infrastructure
☐ Capacities : ☐ institutional ☐ technical ☐ human
☐ Climate change ☐ Weak Cooperation ☐ Other, namely

What are the most important steps and activities that would improve water supply in terms of aforementioned issues and constrains?

The most important activities are raising awareness on importance of water supply locally and regionally, decreasing the seasonal fluctuations by improving the quality of infrastructure, secure the investments for adequate water supply system recovery, recovery of secondary water supply system in town.

Do you think that some cross-cutting issues can be solved by:

(Please rank them: 1 the most significant , 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

- ☐ Policy that would address the majority of issues
☐ Separate policies that would address the majority of issues

<input type="checkbox"/> Better cooperation among different sectors 3 Better cooperation among local and national authorities 1 More financial resources 2 Water tariffs <input type="checkbox"/> Other, namely :
Please list the 3 most significant actors/ actions for improved water supply and water resources management: -to secure funds for increasing the quality of water supply system in terms of technical improvements -remote controlling of the system -human resources capacity – trainings for new technologies application
What are the actions that your institution/ organization might take to improve water supply and water resources management and contribute to its sustainability? P.C.Utility Neum is not able to secure adequate funds to increase the quality of water supply . The only possible actions that can be done are day-to-day emergency recoveries of pipe burstings and breakages.
Do you think that only state activities contribute to improved water supply: <input type="checkbox"/> YES <input checked="" type="checkbox"/> No If the answer is NO please list other institutional levels of significance: Municipalities, Counties
Your familiarity/ knowledge with role and activities of Bilateral Commissions of significance for cross – border/ regional water supply and water resources management: <input type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Deficient
Your familiarity/ knowledge with role and activities of Local Authorities of significance for cross – border/ regional water supply: <input type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Deficient
Are there legislative frameworks (treaties, agreements, Memorandum of Understanding, etc.) that are significant for cross-border/ regional water supply systems and water resource management you are familiar with in your country/region: <input checked="" type="checkbox"/> YES <input type="checkbox"/> No If the answer is yes, please provide the title Contract signed between Republic of Croatia and Bosnia and Herzegovina on water management relations arrangement dating from 1996. This contract is a legal framework for CBWS functioning in general, but it is not covering most of the concrete issues that have to be dealt with in an everyday functioning of the WSS.
Your familiarity with issues/ constrains regarding cross- border / regional water resources: <input type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Deficient Please provide additional comments if any:

<p>Implementation level of River basin Management Plans at the national level:</p> <p style="text-align: center;"><input type="checkbox"/> Completed <input type="checkbox"/> Ongoing <input checked="" type="checkbox"/> Pending</p> <p>Please provide additional comments if any:</p>
<p>Implementation level of River basin Management Plans (transboundary river basins) :</p> <p style="text-align: center;"><input type="checkbox"/> Completed <input type="checkbox"/> Ongoing <input checked="" type="checkbox"/> Pending</p> <p>Please provide additional comments if any:</p>
<p>What are the most important topics that you would like to become more familiar regarding to cross- border /regional water supply systems and water resources management?</p> <p>Definition of rights and responsibilities of all the cross-border WSS users in order to balance the cross-border relations in legal, technical and economic frameworks.</p>
<p>Do you consider this type of workshops/roundtables useful:</p> <p style="text-align: center;"><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Neutral</p>
<p>Additional Comments:</p> <p>In order to secure cross-border WSS functioning in the future, it is essential to ensure that all abovementioned is put into functioning and respected legal frameworks.</p>

QUESTIONNAIRE ON CROSS BORDER /REGIONAL WATER SUPPLY SYSTEMS AND WATER RESOURCES MANAGEMENT

The Capitalization and sustainability activity (CS) is an important project component that would provide framework for exchange of relevant information of significance for cross- border/ regional water supply systems among stakeholders, authorities, research institutions, etc.

Yours feedbacks collected during the national workshops provide valuable inputs and contribute to successful DRINKADRIA project implementation.

Name:	Josip
Surname:	Petrović
Institution/ Organization: (If you wish to remain anonymous, please do not fill)	Vodogradnja d.o.o. Tomislavgrad

Your Institution/ Organization mission /main scope of the work:

☒ Water utility ☒ Authority : ☐ local ☒ regional ☐ national
☐ Research Organization ☐ Water Association ☐ Other (please specify):

Your activities are mainly focused on :

☒ water supply ☐ water protection ☐ education/research
☐ international cooperation ☐ financial/ legislative ☐ other, namely :

What spatial scale reflects the best your activities and tasks?
 (Please use percentile estimation in a way that total amount is 100%
 Example: local -55%. national -25%, other - 20%)

local 30 % regional 70 % national % international % other, namely : , %

What are the main water supply management issues/ problems at the present?
 (Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

❶ Losses ☐ Quantity ☐ Quality ❸ Water tariffs
 ❷ legislation and policy framework ☐ Lack of funding ☐ Infrastructure
☐ Capacities : ☐ institutional ☐ technical ☐ human
☐ Climate change ☐ Weak Cooperation ☐ Other, namely :

Please rank the following in terms of before mentioned issues/problems:
(Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

LOSSES

- | | | |
|--|--|--|
| <input checked="" type="checkbox"/> 2 unauthorized consumption | <input type="checkbox"/> metering errors | <input checked="" type="checkbox"/> 1 distribution network leakage |
| <input checked="" type="checkbox"/> 3 distribution network leakage | <input type="checkbox"/> water supply facilities leakage | |
| <input type="checkbox"/> other, please specify | | |

QUANTITY

- | | | |
|--|---|---|
| <input type="checkbox"/> increase in water use | <input checked="" type="checkbox"/> 1 seasonal fluctuations | <input type="checkbox"/> water storage capacities |
| <input type="checkbox"/> changes in land use practices | <input type="checkbox"/> high consumption by other sectors (agriculture, industry, etc) | |
| <input type="checkbox"/> Climate Change | <input type="checkbox"/> other, please specify | |

QUALITY

- | | | |
|--|--|---|
| <input type="checkbox"/> point source pollution | <input type="checkbox"/> nonpoint source pollution | <input type="checkbox"/> source protection issues |
| <input type="checkbox"/> changes in land use practices | <input type="checkbox"/> seasonal fluctuation | <input type="checkbox"/> Climate Change |
| <input type="checkbox"/> other, please specify | | |

WATER SUPPLY DISTRIBUTION CONSTRAINS

- | | | |
|---|--|--|
| <input type="checkbox"/> inadequate network | <input type="checkbox"/> pumping stations capacities | <input type="checkbox"/> reservoirs deficiency |
| <input type="checkbox"/> poor maintenance of water supply distribution system | | <input type="checkbox"/> ageing |
| <input type="checkbox"/> other, please specify | | |

What are the main water supply management constrains in the near future (next 25- 30 years) ?
(Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

- | | | | |
|--|--|---|---|
| <input checked="" type="checkbox"/> 1 Losses | <input type="checkbox"/> Quantity | <input type="checkbox"/> Quality | <input checked="" type="checkbox"/> 2 Water tariffs |
| <input checked="" type="checkbox"/> 3 legislation and policy framework | <input type="checkbox"/> Lack of funding | <input type="checkbox"/> Infrastructure | |
| <input type="checkbox"/> Capacities : <input type="checkbox"/> institutional <input type="checkbox"/> technical <input type="checkbox"/> human | | | |
| <input type="checkbox"/> Climate change <input type="checkbox"/> Weak Cooperation <input type="checkbox"/> Other, namely | | | |

What are the most important steps and activities that would improve water supply in terms of aforementioned issues and constrains?

Do you think that some cross-cutting issues can be solved by:

(Please rank them: 1 the most significant , 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

- ☒ 3 Policy that would address the majority of issues
- ☐ Separate policies that would address the majority of issues

<p> <input checked="" type="radio"/> Better cooperation among different sectors <input type="checkbox"/> Better cooperation among local and national authorities <input type="checkbox"/> More financial resources <input checked="" type="radio"/> Water tariffs <input type="checkbox"/> Other, namely : </p>
<p>Please list the 3 most significant actors/ actions for improved water supply and water resources management:</p> <ol style="list-style-type: none"> 1. Introduce the economic price of water, 2. Quality maintain the water supply system, 3. Regulate the legal framework.
<p>What are the actions that your institution/ organization might take to improve water supply and water resources management and contribute to its sustainability?</p>
<p>Do you think that only state activities contribute to improved water supply:</p> <p><input type="checkbox"/> YES <input checked="" type="checkbox"/> No</p> <p>If the answer is NO please list other institutional levels of significance:</p> <ol style="list-style-type: none"> 1. Municipality 2. Canton
<p>Your familiarity/ knowledge with role and activities of Bilateral Commissions of significance for cross – border/ regional water supply and water resources management:</p> <p><input type="checkbox"/> Comprehensive <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Deficient</p>
<p>Your familiarity/ knowledge with role and activities of Local Authorities of significance for cross – border/ regional water supply:</p> <p><input type="checkbox"/> Comprehensive <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Deficient</p>
<p>Are there legislative frameworks (treaties, agreements, Memorandum of Understanding, etc.) that are significant for cross-border/ regional water supply systems and water resource management you are familiar with in your country/region:</p> <p><input type="checkbox"/> YES <input checked="" type="checkbox"/> No</p> <p>If the answer is yes, please provide the title</p>
<p>Your familiarity with issues/ constrains regarding cross- border / regional water resources:</p> <p><input type="checkbox"/> Comprehensive <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Deficient</p>

<p>Please provide additional comments if any:</p>
<p>Implementation level of River basin Management Plans at the national level:</p> <p style="text-align: center;"><input type="checkbox"/> Completed <input checked="" type="checkbox"/> Ongoing <input type="checkbox"/> Pending</p> <p>Please provide additional comments if any:</p>
<p>Implementation level of River basin Management Plans (transboundary river basins) :</p> <p style="text-align: center;"><input type="checkbox"/> Completed <input type="checkbox"/> Ongoing <input type="checkbox"/> Pending</p> <p>Please provide additional comments if any:</p>
<p>What are the most important topics that you would like to become more familiar regarding to cross- border /regional water supply systems and water resources management?</p> <p>The difference of legislation in the field of water supply of some countries in the region and working conditions of transboundary water supply systems.</p>
<p>Do you consider this type of workshops/roundtables useful:</p> <p style="text-align: center;"><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Neutral</p>
<p>Additional Comments:</p>

UPITNIK O PREKOGRANIČNIM/REGIONALNIM SISTEMIMA ZA VODOSNABDIJEVANJE I UPRAVLJANJE VODNIM RESURSIMA

Kapitalizacija i održivost aktivnosti je važna komponenta projekta, koja će osigurati okvir za razmjenu značajnih informacija između korisnika, nadležnih institucija, istraživačkih institucija i sl, a koje su od značaja za prekogranične/regionalne sisteme za vodosnabdjevanje

Vaše povratne informacije pružit će vrijedne podatke i pridonijeti uspješnoj realizaciji projekta DRINKADRIA.

Ime:	Borislav
Prezime:	Vukoje
Institucija/Organizacija: (ukoliko želite ostati anonimni, molimo ne popunjavati)	J.P. "Vodovod" a.d. Bileća

Vaša institucija/Organizacija/glavno područje djelatnosti:

☒ Vodovod ☐ Javna uprava : ☐ lokalni nivo ☐ regionalni nivo ☐ nacionali nivo
☐ Istraživačka organizacija ☐ Vodna udruga/udruženje ☐ Drugo (navesti):

Vaše aktivnosti su uglavnom fokusirane na:

☒ vodosnabdjevanje/vodoopskrba ☐ zaštita voda ☐ obrazovanje/istraživanje
☐ međunarodna suradnja ☐ financije/legislatura ☐ drugo (imenovati):

Koji prostorni obuhvat najbolje odražava Vaš rad i aktivnosti?
(Molimo koristiti postotke/procente u procjenjivanju tako da ukupno na kraju bude 100%)
Primjer: lokalni -55%. nacionalni -25%, drugo - 20%)

lokalni 70 % regionalni 30 % nacionalni _ % internacionalni _ % drugo, (imenovati) : _____, _ %

Koji su glavni problemi u upravljanju sistemima za vodosnabdjevanje/postojeći problemi?
(Molimo rangirati: 1 najznačajniji, 5 najmanje značajan, moguće je zabilježiti dva problema kao najznačajnija)

1 Gubici vode **5** Kvantitet **5** Kvalitet **1** Tarifa vode
3 zakonodavstvo i politički okvir **2** nedostatak sredstava **2** Infrastruktura
☐ kapaciteti: ☐ institucionalni ☐ tehnički ☐ ljudski
☐ klimatske promjene ☐ slaba suradnja ☐ drugo (navesti) :

Molimo rangirati slijedeće prema prethodno spomenutim problemima:

(Molimo rangirati: 1 najznačajniji , 5 najmanje značajan, moguće je zabilježiti dva problema kao najznačajnija)

GUBICI VODE

- ☐ 1 nezakonita potrošnja ☐ 4 greške u mjerenju utroška vode ☐ 1 gubici u distributivnoj mreži
☐ 2 curenja u distributivnoj mreži ☐ curenje vode iz drugih postrojenja
☐ drugo, molim navesti

KVANTITET

- ☐ 4 povećano korištenje voda ☐ 4 sezonske fluktuacije ☐ 5 kapacitet rezervoara
☐ promjene u namjeni/korištenju zemljišta ☐ velika potrošnja od strane drugih sektora (poljoprivreda, industrija, isl.)
☐ Klimatske promjene ☐ drugo, molim navesti

KVALITET

- ☐ 2 točkasti izvori zagađenja ☐ 1 difuzno zagađenje ☐ 1 problemi u zaštiti izvorišta
☐ promjene u namjeni/korištenju zemljišta ☐ sezonske fluktuacije ☐ Klimatske promjene
☐ drugo, molim navesti

OGRANIČENJA/REDUKCIJE U DISTRIBUCIJI VODE

- ☐ neodgovarajuća mreža ☐ kapaciteti pumpnih stanica ☐ nedostaci u rezervoarima
☐ 2 slabo održavanje vodovodnog sistema ☐ 1 starost sistema
☐ drugo, molim navesti

Koje su glavne prepreke za upravljanje sistemom vodosnabdijevanja u bliskoj budućnosti (slijedećih 25 do 30 godina)?

(Molimo rangirati: 1 najznačajniji , 5 najmanje značajan, moguće je zabilježiti dva problema kao najznačajnija)

- ☐ 1 Gubici vode ☐ Kvantitet ☐ Kvaliteta ☐ 1 Tarifa vode
☐ zakonodavstvo i politički okvir ☐ 2 nedostatak sredstava ☐ 2 Infrastruktura
☐ kapaciteti: ☐ institucionalni ☐ tehnički ☐ ljudski
☐ klimatske promjene ☐ slaba suradnja ☐ drugo (navesti) :

Koji su najvažniji koraci i aktivnosti koje će poboljšati opskrbu vodom u smislu navedenih problema i ograničenja?
-smanjenje gubitaka u mreži, ekonomska cijena vode, monitoring sistema,

Mislite li da se neka multidisciplinarna pitanja mogu riješiti na slijedeći način:

(Molimo rangirati: 1 najznačajniji , 5 najmanje značajan, moguće je zabilježiti dva problema kao najznačajnija)

- ☐ 1 Politikom kojima će se obuhvatiti većina problema
☐ 3 Različitim politikama kojima će se obuhvatiti većina problema
☐ 3 Boljom suradnjom između različitih sektora

☒ 2 Boljom suradnjom između lokalnih i nacionalnih vlasti

☒ 2 Sa više financijskih resursa

☒ 1 Odgovarajućom tarifom vode

☐ drugo (navesti) :

Navedite tri najznačajnija faktora/aktivnosti za poboljšanje sustava vodoopskrbe i gospodarenja vodnim resursima:

- Upravljanje potrošnjom
- Tarifna politika
- Zaštita vodnih resursa

Koje su radnje koje vaša institucija/organizacija može poduzeti kako bi poboljšala sistem vodosnabdjevanja, upravljanje vodnim resursima i održivosti istog?

- Aplikirati sa potrebama i projektima za finansiranje zaštite vodnih resursa.

Mislite li da samo aktivnosti države doprinose poboljšanju sistema vodosnabdjevanja/sustava vodoopskrbe:

☐ DA ☒ NE

Ako je odgovor NE, molimo navesti i ostale institucionalne razine od značaja:

- Međudržavne organizacije
- Lokalna zajednica

Vaše poznavanje/znanje uloge i aktivnosti bilateralnih komisija, koje su od značaja za prekogranične/regionalne vodoopskrbne sisteme i upravljanje vodama:

☐ Opsežno ☒ Umjereno ☐ Oskudno

Vaše poznavanje/znanje uloge i aktivnosti lokalnih vlasti od značaja za prekogranične/regionalne vodoopskrbne sisteme i upravljanje vodama:

☐ Opsežno ☒ Umjereno ☐ Oskudno

Postoje li zakonski okviri u Vašoj državi/regiji (pravilnici, ugovori, Memorandumi o razumijevanju, i sl.) koji su značajni za prekogranične/regionalne sisteme vodosnabdjevanja i upravljanje vodnim resursima:

☐ DA ☐ NE

Ako je odgovor DA navesti dokument:

- Malo smo upoznati

Vaše poznavanje problema/ograničenja u pogledu prekograničnih izvorišta vode za piće:

☐ Opsežno ☒ Umjereno ☐ Oskudno

Molimo ukoliko postoje dodatni komentari iste navesti:

Razina provedbe planova upravljanja vodnim područjima na nacionalnoj razini:

☐ Završena ☒ U toku ☐ Početna

Molimo ukoliko postoje dodatni komentari iste navesti:

Razina provedbe planova upravljanja slivom (prekogranični riječni slivovi):

☐ Završena ☐ U toku ☐ Početna

Molimo ukoliko postoje dodatni komentari iste navesti:

<p>Koje su najznačajnije teme sa kojima bi željeli da se bolje upoznate u vezi prekograničnih vodoopskrbnih sustava/sistema vodosnabdijevanja i upravljanja prekograničnim vodnim resursima?</p> <ul style="list-style-type: none">- problem velikog broja korisnika vode koji nisu u sistemu prikupljanja i odvoda upotrijebljenih voda do prečištača jer nisu u gravtacionom sistemu odnosno veliki broj nepropisnih septičkih jama. Potrebno je uraditi posebne sisteme za prečišćavanje ili prepumpavanje otpadnih voda do kolektora.
<p>Smatrate li da je tip radionica/okruglih stolova na ovu temu koristan:</p> <p><input checked="" type="checkbox"/> Da <input type="checkbox"/> Ne <input type="checkbox"/> Suzdržan</p>
<p>Dodatni komentari</p>

QUESTIONNAIRE ON CROSS BORDER /REGIONAL WATER SUPPLY SYSTEMS AND WATER RESOURCES MANAGEMENT

The Capitalization and sustainability activity (CS) is an important project component that would provide framework for exchange of relevant information of significance for cross- border/ regional water supply systems among stakeholders, authorities, research institutions, etc.

Yours feedbacks collected during the national workshops provide valuable inputs and contribute to successful DRINKADRIA project implementation.

Name:	Slobodan
Surname:	Soče
Institution/ Organization: (If you wish to remain anonymous, please do not fill)	PU "Čapljina" d.o.o. Čapljina

Your Institution/ Organization mission /main scope of the work:

☒ Water utility ☐ Authority : ☐ local ☐ regional ☐ national
☐ Research Organization ☐ Water Association ☐ Other (please specify):

Your activities are mainly focused on :

☒ water supply ☐ water protection ☐ education/research
☐ international cooperation ☐ financial/ legislative ☐ other, namely :

What spatial scale reflects the best your activities and tasks?
(Please use percentile estimation in a way that total amount is 100%)
Example: local -55%. national -25%, other - 20%)

local 95 % regional 5 % national % international % other, namely : _____, %

What are the main water supply management issues/ problems at the present?
(Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

☒ ❶ Losses ☐ Quantity ☐ Quality ☒ ❸ Water tariffs
☐ legislation and policy framework ☒ ❷ Lack of funding ☒ ❹ Infrastructure
☒ ❺ Capacities : ☐ institutional ☐ technical ☐ human
☐ Climate change ☐ Weak Cooperation ☐ Other, namely :

Please rank the following in terms of before mentioned issues/problems:
(Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

LOSSES

- | | | |
|---|--|---|
| <input checked="" type="radio"/> 1 unauthorized consumption | <input checked="" type="radio"/> 3 metering errors | <input checked="" type="radio"/> 2 distribution network leakage |
| <input checked="" type="radio"/> 4 distribution network leakage | <input type="checkbox"/> water supply facilities leakage | |
| <input type="checkbox"/> other, please specify | | |

QUANTITY

- | | | |
|--|---|---|
| <input type="checkbox"/> increase in water use | <input type="checkbox"/> seasonal fluctuations | <input checked="" type="radio"/> 1 water storage capacities |
| <input type="checkbox"/> changes in land use practices | <input type="checkbox"/> high consumption by other sectors (agriculture, industry, etc) | |
| <input type="checkbox"/> Climate Change | <input type="checkbox"/> other, please specify | |

QUALITY

- | | | |
|--|--|---|
| <input type="checkbox"/> point source pollution | <input type="checkbox"/> nonpoint source pollution | <input checked="" type="radio"/> 1 source protection issues |
| <input type="checkbox"/> changes in land use practices | <input type="checkbox"/> seasonal fluctuation | <input type="checkbox"/> Climate Change |
| <input type="checkbox"/> other, please specify | | |

WATER SUPPLY DISTRIBUTION CONSTRAINS

- | | | |
|---|--|--|
| <input checked="" type="radio"/> 2 inadequate network | <input type="checkbox"/> pumping stations capacities | <input checked="" type="radio"/> 1 reservoirs deficiency |
| <input type="checkbox"/> poor maintenance of water supply distribution system | | <input type="checkbox"/> ageing |
| <input type="checkbox"/> other, please specify | | |

What are the main water supply management constrains in the near future (next 25- 30 years) ?
(Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

- | | | | |
|--|--|---|--|
| <input checked="" type="checkbox"/> Losses | <input type="checkbox"/> Quantity | <input type="checkbox"/> Quality | <input type="checkbox"/> Water tariffs |
| <input type="checkbox"/> legislation and policy framework | <input checked="" type="radio"/> 2 Lack of funding | <input type="checkbox"/> Infrastructure | |
| <input type="checkbox"/> Capacities : <input type="checkbox"/> institutional <input type="checkbox"/> technical <input type="checkbox"/> human | | | |
| <input type="checkbox"/> Climate change <input type="checkbox"/> Weak Cooperation <input type="checkbox"/> Other, namely | | | |

What are the most important steps and activities that would improve water supply in terms of aforementioned issues and constrains?

Water losses reduction and water supply system reconstruction

Do you think that some cross-cutting issues can be solved by:

(Please rank them: 1 the most significant , 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

- ☐ Policy that would address the majority of issues
- ☐ Separate policies that would address the majority of issues

<input type="checkbox"/> Better cooperation among different sectors <input type="checkbox"/> Better cooperation among local and national authorities <input checked="" type="checkbox"/> More financial resources <input type="checkbox"/> Water tariffs <input type="checkbox"/> Other, namely :
<p>Please list the 3 most significant actors/ actions for improved water supply and water resources management:</p> <ul style="list-style-type: none"> • rationalization and reduction of water losses, • reconstruction of dilapidated water supply network, the introduction of remote monitoring and management and implementation of new test methods of system monitoring, • increase of the billing.
<p>What are the actions that your institution/ organization might take to improve water supply and water resources management and contribute to its sustainability?</p> <ul style="list-style-type: none"> • Detection of leakages from the mains and service lines, • Replacement of water meters, which are on average 12-15 years old. (losses in the measurement-apparent losses) • installation of water meters in each flat in a collective housing buildings, • regular monitoring of consumer debts and regular suing of that consumers.
<p>Do you think that only state activities contribute to improved water supply:</p> <p><input type="checkbox"/> YES <input checked="" type="checkbox"/> No</p> <p>If the answer is NO please list other institutional levels of significance:</p> <ul style="list-style-type: none"> • Local, • regional
<p>Your familiarity/ knowledge with role and activities of Bilateral Commissions of significance for cross – border/ regional water supply and water resources management:</p> <p><input type="checkbox"/> Comprehensive <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Deficient</p>
<p>Your familiarity/ knowledge with role and activities of Local Authorities of significance for cross – border/ regional water supply:</p> <p><input type="checkbox"/> Comprehensive <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Deficient</p>
<p>Are there legislative frameworks (treaties, agreements, Memorandum of Understanding, etc.) that are significant for cross-border/ regional water supply systems and water resource management you are familiar with in your country/region:</p> <p><input type="checkbox"/> YES <input checked="" type="checkbox"/> No</p>

If the answer is yes, please provide the title
<p>Your familiarity with issues/ constrains regarding cross- border / regional water resources:</p> <p><input type="checkbox"/> Comprehensive <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Deficient</p> <p>Please provide additional comments if any:</p>
<p>Implementation level of River basin Management Plans at the national level:</p> <p><input type="checkbox"/> Completed <input type="checkbox"/> Ongoing <input checked="" type="checkbox"/> Pending</p> <p>Please provide additional comments if any:</p>
<p>Implementation level of River basin Management Plans (transboundary river basins) :</p> <p><input type="checkbox"/> Completed <input type="checkbox"/> Ongoing <input checked="" type="checkbox"/> Pending</p> <p>Please provide additional comments if any:</p>
<p>What are the most important topics that you would like to become more familiar regarding to cross- border /regional water supply systems and water resources management?</p>
<p>Do you consider this type of workshops/roundtables useful:</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Neutral</p>
<p>Additional Comments:</p>

QUESTIONNAIRE ON CROSS BORDER /REGIONAL WATER SUPPLY SYSTEMS AND WATER RESOURCES MANAGEMENT

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Yours feedbacks collected during the national workshops provide valuable inputs and contribute to successful DRINKADRIA project implementation.

Name:	Andelka
Surname:	Trtić
Institution/ Organization: (If you wish to remain anonymous, please do not fill)	PU "Grahovo" Bosanko Grahovo

Your Institution/ Organization mission /main scope of the work:

☒ Water utility ☐ Authority : ☐ local ☐ regional ☐ national
☐ Research Organization ☐ Water Association ☐ Other (please specify):

Your activities are mainly focused on :

☒ water supply ☐ water protection ☐ education/research
☐ international cooperation ☐ financial/ legislative ☐ other, namely :

What spatial scale reflects the best your activities and tasks?
(Please use percentile estimation in a way that total amount is 100%
Example: local -55%. national -25%, other - 20%)

local 100 % regional _ % national _ % international _ % other, namely : _____, _ %

What are the main water supply management issues/ problems at the present?
(Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

1 Losses **2** Quantity **5** Quality **5** Water tariffs
5 legislation and policy framework **3** Lack of funding **4** Infrastructure
5 Capacities : **5** institutional **5** technical **5** human

☐ Climate change ☐ Weak Cooperation ☐ Other, namely :

Please rank the following in terms of before mentioned issues/problems:
(Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

LOSSES

- | | | |
|---|--|---------------------------------------|
| <input type="checkbox"/> unauthorized consumption | <input type="checkbox"/> metering errors | 1 distribution network leakage |
| <input type="checkbox"/> distribution network leakage | <input type="checkbox"/> water supply facilities leakage | |
| <input type="checkbox"/> other, please specify | | |

QUANTITY

- | | | |
|--|---|-----------------------------------|
| <input type="checkbox"/> increase in water use | 1 seasonal fluctuations | 2 water storage capacities |
| <input type="checkbox"/> changes in land use practices | <input type="checkbox"/> high consumption by other sectors (agriculture, industry, etc) | |
| 3 Climate Change | <input type="checkbox"/> other, please specify | |

QUALITY

- | | | |
|--|--|---|
| <input type="checkbox"/> point source pollution | <input type="checkbox"/> nonpoint source pollution | <input type="checkbox"/> source protection issues |
| <input type="checkbox"/> changes in land use practices | 1 seasonal fluctuation | 2 Climate Change |
| <input type="checkbox"/> other, please specify | | |

WATER SUPPLY DISTRIBUTION CONSTRAINS

- | | | |
|---|--------------------------------------|--------------------------------|
| 1 inadequate network | 4 pumping stations capacities | 2 reservoirs deficiency |
| 3 poor maintenance of water supply distribution system | | 5 ageing |
| <input type="checkbox"/> other, please specify | | |

What are the main water supply management constrains in the near future (next 25- 30 years) ?
(Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

- | | | | |
|--|--------------------------|---|--|
| 1 Losses | 3 Quantity | <input type="checkbox"/> Quality | <input type="checkbox"/> Water tariffs |
| <input type="checkbox"/> legislation and policy framework | 2 Lack of funding | <input type="checkbox"/> Infrastructure | |
| <input type="checkbox"/> Capacities : <input type="checkbox"/> institutional <input type="checkbox"/> technical <input type="checkbox"/> human | | | |
| <input type="checkbox"/> Climate change <input type="checkbox"/> Weak Cooperation <input type="checkbox"/> Other, namely | | | |

What are the most important steps and activities that would improve water supply in terms of aforementioned issues and constrains?

Do you think that some cross-cutting issues can be solved by:

(Please rank them: 1 the most significant , 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

- ☐ Policy that would address the majority of issues
- ☐ Separate policies that would address the majority of issues

<input type="checkbox"/> Better cooperation among different sectors <input type="checkbox"/> Better cooperation among local and national authorities <input checked="" type="radio"/> More financial resources <input type="checkbox"/> Water tariffs <input type="checkbox"/> Other, namely :
<p>Please list the 3 most significant actors/ actions for improved water supply and water resources management:</p> <ul style="list-style-type: none"> • Providing of necessary funding's, • Reconstruction of distribution network, pumping stations and reservoirs, • Water tariffs and charges.
<p>What are the actions that your institution/ organization might take to improve water supply and water resources management and contribute to its sustainability?</p> <p>Due to the lack of funds, it is impossible to organize regular maintenance of the water systems, and the organization is not capable to undertake any activities or actions for the improving of the the water supply system and water resources management.</p>
<p>Do you think that only state activities contribute to improved water supply:</p> <p><input checked="" type="checkbox"/> YES <input type="checkbox"/> No</p> <p>If the answer is NO please list other institutional levels of significance:</p>
<p>Your familiarity/ knowledge with role and activities of Bilateral Commissions of significance for cross – border/ regional water supply and water resources management:</p> <p><input type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Deficient</p>
<p>Your familiarity/ knowledge with role and activities of Local Authorities of significance for cross – border/ regional water supply:</p> <p><input type="checkbox"/> Comprehensive <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Deficient</p>
<p>Are there legislative frameworks (treaties, agreements, Memorandum of Understanding, etc.) that are significant for cross-border/ regional water supply systems and water resource management you are familiar with in your country/region:</p> <p><input type="checkbox"/> YES <input type="checkbox"/> No</p> <p>If the answer is yes, please provide the title</p> <p>We are not familiar with current legislation</p>

<p>Your familiarity with issues/ constrains regarding cross- border / regional water resources:</p> <p><input type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Deficient</p> <p>Please provide additional comments if any:</p>
<p>Implementation level of River basin Management Plans at the national level:</p> <p><input type="checkbox"/> Completed <input type="checkbox"/> Ongoing <input checked="" type="checkbox"/> Pending</p> <p>Please provide additional comments if any:</p>
<p>Implementation level of River basin Management Plans (transboundary river basins) :</p> <p><input type="checkbox"/> Completed <input type="checkbox"/> Ongoing <input checked="" type="checkbox"/> Pending</p> <p>Please provide additional comments if any:</p>
<p>What are the most important topics that you would like to become more familiar regarding to cross- border /regional water supply systems and water resources management?</p> <p>For us all topics are important and we want to be familiar with all topics of this project.</p>
<p>Do you consider this type of workshops/roundtables useful:</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Neutral</p>
<p>Additional Comments:</p>

QUESTIONNAIRE ON CROSS BORDER /REGIONAL WATER SUPPLY SYSTEMS AND WATER RESOURCES MANAGEMENT

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Name:	Ivan
Surname:	Marić
Institution/ Organization: (If you wish to remain anonymous, please do not fill)	PU "KOMUNALNO" D.O.O. GRUDE

Your Institution/ Organization mission /main scope of the work:

☒ Water utility ☐ Authority : ☐ local ☐ regional ☐ national
☐ Research Organization ☐ Water Association ☐ Other (please specify):

Your activities are mainly focused on :

☒ water supply ☒ water protection ☐ education/research
☐ international cooperation ☐ financial/ legislative ☐ other, namely :

What spatial scale reflects the best your activities and tasks?
(Please use percentile estimation in a way that total amount is 100%)
Example: local -55%. national -25%, other - 20%)

local 95% regional 5% national % international % other, namely : _____, %

What are the main water supply management issues/ problems at the present?
(Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

❶ Losses ☐ Quantity ❸ Quality ☐ Water tariffs
 ❷ legislation and policy framework ☐ Lack of funding ☐ Infrastructure
 ❹ Capacities : ☒ institutional ☐ technical ☐ human
 ❺ Climate change ☐ Weak Cooperation ☐ Other, namely :

Please rank the following in terms of before mentioned issues/problems:
(Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

LOSSES

- | | | |
|---|--|---|
| <input type="checkbox"/> ❶ unauthorized consumption | <input type="checkbox"/> metering errors | <input type="checkbox"/> ❷ distribution network leakage |
| <input type="checkbox"/> distribution network leakage | <input type="checkbox"/> water supply facilities leakage | |
| <input type="checkbox"/> other, please specify | | |

QUANTITY

- | | | |
|--|---|---|
| <input type="checkbox"/> ❷ increase in water use | <input type="checkbox"/> ❶ seasonal fluctuations | <input type="checkbox"/> water storage capacities |
| <input type="checkbox"/> changes in land use practices | <input type="checkbox"/> high consumption by other sectors (agriculture, industry, etc) | |
| <input type="checkbox"/> Climate Change | <input type="checkbox"/> other, please specify | |

QUALITY

- | | | |
|--|--|---|
| <input type="checkbox"/> ❷ point source pollution | <input type="checkbox"/> nonpoint source pollution | <input type="checkbox"/> ❶ source protection issues |
| <input type="checkbox"/> changes in land use practices | <input type="checkbox"/> seasonal fluctuation | <input type="checkbox"/> Climate Change |
| <input type="checkbox"/> other, please specify | | |

WATER SUPPLY DISTRIBUTION CONSTRAINS

- | | | |
|---|--|--|
| <input type="checkbox"/> ❶ inadequate network | <input type="checkbox"/> ❸ pumping stations capacities | <input type="checkbox"/> reservoirs deficiency |
| <input type="checkbox"/> poor maintenance of water supply distribution system | | <input type="checkbox"/> ageing |
| <input type="checkbox"/> other, please specify | | |

What are the main water supply management constrains in the near future (next 25- 30 years) ?
(Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

- | | | | |
|--|--|---|--|
| <input type="checkbox"/> ❸ Losses | <input type="checkbox"/> Quantity | <input type="checkbox"/> ❶ Quality | <input type="checkbox"/> Water tariffs |
| <input type="checkbox"/> ❷ legislation and policy framework | <input type="checkbox"/> Lack of funding | <input type="checkbox"/> Infrastructure | |
| <input type="checkbox"/> Capacities : <input type="checkbox"/> institutional <input type="checkbox"/> technical <input type="checkbox"/> human | | | |
| <input type="checkbox"/> Climate change <input type="checkbox"/> Weak Cooperation <input type="checkbox"/> Other, namely | | | |

What are the most important steps and activities that would improve water supply in terms of aforementioned issues and constrains?

Protection water source upstream by construction of wastewater treatment plant in Posušje.

Do you think that some cross-cutting issues can be solved by:

(Please rank them: 1 the most significant , 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

- ☐ ❶ Policy that would address the majority of issues
- ☐ Separate policies that would address the majority of issues

<p>② Better cooperation among different sectors</p> <p><input type="checkbox"/> Better cooperation among local and national authorities</p> <p><input type="checkbox"/> More financial resources</p> <p><input type="checkbox"/> Water tariffs</p> <p><input checked="" type="checkbox"/> Other, namely : Seriousness of the problem</p>
<p>Please list the 3 most significant actors/ actions for improved water supply and water resources management:</p> <ol style="list-style-type: none"> 1. Construction of the treatment plant at the water source, 2. Construction of the wastewater treatment plant in Posusje, 3. Bad relationship of state policy towards water utility companies.
<p>What are the actions that your institution/ organization might take to improve water supply and water resources management and contribute to its sustainability?</p> <ol style="list-style-type: none"> 1. Water Loss Reduction-Efficiency working of the system, 2. Replacement of the low quality pipes, 3. Installation of water control meters.
<p>Do you think that only state activities contribute to improved water supply:</p> <p><input type="checkbox"/> YES <input checked="" type="checkbox"/> No</p> <p>If the answer is NO please list other institutional levels of significance:</p>
<p>Your familiarity/ knowledge with role and activities of Bilateral Commissions of significance for cross – border/ regional water supply and water resources management:</p> <p><input type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Deficient</p>
<p>Your familiarity/ knowledge with role and activities of Local Authorities of significance for cross – border/ regional water supply:</p> <p><input type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Deficient</p>
<p>Are there legislative frameworks (treaties, agreements, Memorandum of Understanding, etc.) that are significant for cross-border/ regional water supply systems and water resource management you are familiar with in your country/region:</p> <p><input type="checkbox"/> YES <input checked="" type="checkbox"/> No</p> <p>If the answer is yes, please provide the title</p>
<p>Your familiarity with issues/ constrains regarding cross- border / regional water resources:</p> <p><input type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Deficient</p>

<p>Please provide additional comments if any:</p>
<p>Implementation level of River basin Management Plans at the national level:</p> <p style="text-align: center;"><input type="checkbox"/> Completed <input type="checkbox"/> Ongoing <input checked="" type="checkbox"/> Pending</p> <p>Please provide additional comments if any:</p>
<p>Implementation level of River basin Management Plans (transboundary river basins) :</p> <p style="text-align: center;"><input type="checkbox"/> Completed <input type="checkbox"/> Ongoing <input checked="" type="checkbox"/> Pending</p> <p>Please provide additional comments if any:</p>
<p>What are the most important topics that you would like to become more familiar regarding to cross- border /regional water supply systems and water resources management?</p>
<p>Do you consider this type of workshops/roundtables useful:</p> <p style="text-align: center;"><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Neutral</p>
<p>Additional Comments:</p> <p>Wish you best regards from Grude.</p>

ANNEX 3: NATIONAL DATA CROATIA

Prva nacionalna radionica projekta DRINKADRIA u Republici Hrvatskoj

17. travnja 2014.

Postrojenje Butoniga, Dvorana za sastanke

Građevinski fakultet Sveučilišta u Rijeci, Istarski vodovod d.o.o., Istarska županija i Hrvatski geološki institut u sklopu projekta DRINKADRIA organiziraju jednodnevnu radionicu u četvrtak, 17. travnja 2014. godine na Postrojenju Butoniga.

Projekt je sufinanciran sredstvima iz Europske unije kroz program **IPA ADRIATIC Cross Border Cooperation 2007-2013.**, započeo je 1. studenog 2013, te će trajati ukupno 29 mjeseci. U projekt su uključene partnerske institucije iz zemalja Jadranske regije: Italija, Slovenija, Hrvatska, BiH, Crna Gora, Srbija, Albanija i Grčka.

DRINKADRIA je strateški projekt kojemu je cilj **razviti strategije i procedure** za sigurnu prekograničnu vodoopskrbu unutar Jadranske makroregije. Također, unutar projektnih resursa predviđena su značajna **ulaganja** u unaprijeđenje vodoopskrbnih sustava (monitoring sustava, smanjenje gubitka, rekonstrukcija ili izgradnja dijelova vodoopskrbnih sustava).

Sudionicima radionice biti će predstavljen sam projekt te će imati prilike diskutirati o **problematici** prekogranične vodoopskrbe. Vaše mišljenje je važno ne samo za potrebe ovog projekta već općenito kao korak prema uvođenju pravnih okvira za regulaciju i kontrolu upravljanja prekograničnih vodnih resursa, obnovu zastarjelih infrastruktura, smanjenju gubitaka, izgradnju novih cjevovoda, poboljšanju kvalitete vodoopskrbe i tako dalje.

Po završetku stručnog dijela programa, upriličiti će se obilazak postrojenja Butoniga.

Sat	Predavač	Naslov predavanja
10:00 – 10:30	REGISTRACIJA	
10:30 – 10:45	POZDRAVNA RIJEČ	
	Direktorica Laura Šuperina, dipl.iur. (Istarski vodovod d.o.o.)	Uvodni govor
10:45 – 11:15	UVODNA PREDAVANJA	
10:45 – 11:00	doc. dr. Primož Banovec (Fakultet građevinarstva i geodezije Univerze v Ljubljani)	Predstavljanje projekta Drinkadria – Povezivanje za opskrbu sa pitkom vodom, temeljne ideje, razvoj projekta, partnerstvo, ciljevi i vizija.
11:00 – 11:15	Izv.prof.dr.sc. Barbara Karleuša (Građevinski fakultet Sveučilišta u Rijeci)	Pregled planiranih aktivnosti hrvatskih partnera u okviru DRINKADRIA projekta
11:15 – 11:45	PAUZA ZA KAVU	
11:45	PREDAVANJA	
11:45 – 12:00	Ljiljana Dravec, dipl.ing.kem.teh. / Bruno Kostelić, dipl.ing.biol.univ.spec.ekoing. (Istarska županija)	Zaštita krškog vodonosnika u Istarskoj županiji – očekivani rezultati projekta DRINKADRIA
12:00 - 12:15	Mladen Nežić, dipl.ing.građ. (Istarski vodovod d.o.o.)	Gradole: jučer, danas, sutra
12:15 – 12:30	Mr.sc. Josip Rubinić (Građevinski fakultet Sveučilišta u Rijeci)	Vodoopskrbni vodni resursi i kritične sušne hidrološke prilike
12:30 – 12:45	Dr.sc. Josip Terzić, dipl.ing.geol. (Hrvatski geološki institut)	Istraživanje vodnih zaliha i usporedba vodoopskrbnih sustava iz zahvata izvora Prud kod Metkovića i Blatskog vodonosnika na Korčuli. Metode i iskustva CC-WaterS projekta i nastavak istraživanja
12:45– 13:00	Želimir Pekaš , dipl.ing.geol. (Hrvatske vode)	Predstavljanje projekta ISTRAHIDRO
13:00 – 13:30	DISKUSIJA	
13:30 – 13:45	ZATVARANJE SKUPA (izv.prof. dr. Barbara Karleuša)	
14.30	ZAKUSKA	



Let's grow up together
Adriatic IPA
Cross Border Cooperation 2007-2013



PRVA NACIONALNA RADIONICA U SKLOPU PROJEKTA DRINK ADRIA U REPUBLICI HRVATSKOJ

17. travnja 2014. / Postojenje Butoniga - Istarski vodovod d.o.o.

Prva nacionalna radionica u sklopu projekta Networking for Drinking Water Supply in Adriatic Region (DRINK ADRIA) u Republici Hrvatskoj, održana je 17. travnja 2014. godine u dvorani za sastanke na Postojenju Butoniga, Istarski vodovod d.o.o.

Radionicu su organizirali Istarski vodovod d.o.o., Istarska županija, Građevinski fakultet Sveučilišta u Rijeci i Hrvatski geološki institut, s ciljem predstavljanja projekta i uključenja dionika u aktivnosti projekta, kako bi svojim znanjem i iskustvima doprinijeli ostvarenju zacrtanih ciljeva i održivosti projekta.

Poziv za sudjelovanje na radionici bio je upućen prema 9 komunalnih društava, 2 županije, 14 jedinica lokalne samouprave (gradovi i općine), 3 zavoda za javno zdravstvo, Hrvatskim vodama i Institutu za poljoprivredu i turizam u Poreču sa područja Hrvatske te prema 3 komunalna društva, 4 grada/općine, 2 zavoda za javno zdravstvo i Agenciji za okolje u Sloveniji.

Radionici je prisustvovalo 44 osoba.

Uz hrvatske partnere na projektu u radionici je sudjelovao predstavnik Univerze v Ljubljani - Fakulteta za gradbeništvo in geodezijo i predstavnici suradničkih institucija Hrvatske vode i Istarski vodozaštitni sustav d.o.o.

Odaziv dionika kojima je bio upućen poziv je bio slab. Odazvali su se Vodovod Pula d.o.o., Općina Oprtalj, Zavod za javno zdravstvo IŽ i Nastavni Zavod za javno zdravstvo PGŽ.

Radionica je započela s pozdravnom riječi direktorice Istarskog vodovoda d.o.o. Laure Šuperine, dipl.iur., koja je izjavila kako se nada da će se projekt uspješno realizirati. Prikazan je kratki film o povijesti Istarskog vodovoda i sustavu kojeg on obuhvaća.

Uslijedila su uvodna predavanja. Doc.dr.sc. Primož Banovec s Fakulteta za gradbeništvo in geodezijo Univerze v Ljubljani predstavio je temeljne ideje i ciljeve projekta Drink Adria, u prezentaciji „Povezivanje za bolju opskrbu sa pitkom vodom (Networking for Drinking Water Supply in Adriatic Region)“. Opisao je pripremu projekta (razvoj partnerstva), strukturu (radne pakete) i prikazao web stranicu projekta.

Iza toga je izv.prof.dr.sc. Barbara Karleuša s Građevinskog fakulteta Sveučilišta u Rijeci prezentirala pregled planiranih aktivnosti hrvatskih partnera u okviru Drink Adria projekta. Navela je četiri hrvatska partnera na projektu i tri suradničke institucije, te njihove specifične aktivnosti. Opisala je radne pakete u koje su uključeni pojedini partneri, kao i pilot područja projekta (sliv Mirne, te izvore u Dalmaciji Prud i Blatsko polje na otoku Korčuli).

S predavanjima je nastavila Ljiljana Dravec, dipl.ing.kem.teh. iz Istarske županije, koja je prezentirala zaštitu krškog vodonosnika u Istarskoj županiji. Dala je osvrt na EU projekte Istarske županije kojima

je cilj zaštita krša i krškog vodonosnika s posebnim osvrtom na aktivnosti Istarske županije u projektu DRINK ADRIA i očekivane rezultate.

Mladen Nežić, dipl.ing.građ. iz Istarskog vodovoda d.o.o. održao je prezentaciju o izvoru Gradole.

Mr.sc. Josip Rubinić s Građevinskog fakulteta Sveučilišta u Rijeci održao je prezentaciju o vodoopskrbnim vodnim resursima i kritičnim sušnim hidrološkim prilikama. Govorio je o hidrološkim sušama, najznačajnijoj povijesno zabilježenoj suši 2011./2012., te naveo primjere klimatskih promjena/varijacija.

Dr.sc. Josip Terzić iz Hrvatskog geološkog instituta održao je prezentaciju o istraživanju vodnih zaliha i usporedbi vodoopskrbnih sustava iz zahvata izvora Prud kod Metkovića i Blatskog vodonosnika na Korčuli. Opisao je pilot područje Pruda i Blata kao dva prirodno neovisna sustava, čija je poveznica sustav vodoopskrbe. Dao je osvrt na zadatke projekta, kao i na metodologiju s CC-WaterS projekta.

Dr.sc. Bojana Hajduk Černeha iz Istarskog vodozaštitnog sustava d.o.o. prezentirala je utjecaj promjene načina ocjene kakvoće voda na zaštitu izvorišta pitke vode u Istri. Govorila je o klasifikaciji voda prema staroj i novoj uredbi, te o ocjeni kemijskog stanja voda.

Posljednju prezentaciju je održao Želimir Pekaš, dipl.ing.geol. iz Hrvatskih voda, koji je predstavio projekt ISTR-HIDRO, kao prekogranične aktivnosti za očuvanje bogatstva podzemnih voda između Tršćanskog i Kvarnerskog zaljeva. Opisao je područje obuhvata projekta, ciljne skupine i ciljeve projekta.

Nakon predavanja održala se diskusija između sudionika. Skup je zatvorila izv.prof.dr.sc. Barbara Karleuša, a diskusija se nastavila uz domjenak. Organiziran je i obilazak postrojenja Butoniga za sve zainteresirane.

Sudionicima radionice su podijeljeni upitnici vezani uz prekograničnu vodoopskrbu i upravljanje vodnim resursima. Ukupno je ispunjeno 20 upitnika.

Temeljem analize upitnika može se zaključiti da se 50% ispitanika bavi upravom (najviše regionalnom), 35% problemima vodoopskrbe, 15% istraživanjem, a neki od njih se bave i odvodnjom i zaštitom voda. Glavne aktivnosti ispitanika se najvećim dijelom odnose na vodoopskrbu (40%) i vodozaštitu (40%), a manjim dijelom na obrazovanje/istraživanje, međunarodnu suradnju i financije/zakonodavstvo. Te aktivnosti su pretežno na regionalnoj (52%) i lokalnoj (27%) razini.

Prepoznaje se da je sadašnji glavni problem upravljanja vodoopskrbom nedostatak financijskih sredstava, a velik problem predstavlja i infrastruktura te zakonodavstvo i politički okviri. Iza toga slijede problemi s količinama, gubicima, kvalitetom, tarifama, klimatskim promjenama i kapacitetima, a najmanji problem je loša suradnja.

Najveći problem vezan uz gubitke je propuštanje distribucijske mreže, a nakon toga slijede pogreške u mjerenju, neovlaštena potrošnja i propuštanje objekata vodoopskrbe.

U pitanjima količina vode najvećim problemima se smatraju sezonske oscilacije i klimatske promjene, a nešto manji problemi su povećanje potrošnje vode, kapaciteti skladištenja vode, visoka potrošnja uzrokovana drugim sektorima i promjene u korištenju zemljišta.

Pitanja zaštite izvora smatraju se najvećim problemom vezanim uz kvalitetu vode, a kao veliki problemi navedene su i sezonske oscilacije i klimatske promjene. Slijede ih točkasti i netočasti izvori zagađenja i promjene u korištenju zemljišta.

Kao glavni problem vodoopskrbne distribucije prepoznata je dotrajalost, neadekvatna mreža i loše održavanje vodoopskrbnih sustava. Kao manji problemi slijede nedostatak rezervoara i kapaciteti crpnih stanica.

U bližoj budućnosti (sljedećih 25-30 godina) glavnim vodoopskrbnim upravljačkim ograničenjima smatraju se količina, kvaliteta i nedostatak financijskih sredstava. Iza toga slijede gubici, klimatske promjene, zakonodavstvo i politički okvir, infrastruktura, tarife za vodu i kapaciteti, a najmanjim ograničenjem smatra se slaba suradnja.

Ispitanici misle da bi se neka prekogranična pitanja mogla riješiti prvenstveno s boljom suradnjom između lokalne i državne uprave, kao i s boljom suradnjom između različitih sektora i sa više financijskih resursa. Također smatraju da je odvajanje politike od rješavanja većine problema nešto bolje rješenje od toga da bi politika mogla riješiti većinu problema.

75% ispitanika smatra da unapređenju vodoopskrbnog sustava ne pridonosi samo državna aktivnost, nego i lokalna i regionalna samouprava, vodoopskrbna poduzeća, Hrvatske vode, sveučilišta i znanstveno-istraživačke institucije, te pojedinci.

Oko polovica ispitanih umjereno poznaje ulogu i aktivnosti bilateralnih komisija za prekogranično upravljanje vodoopskrbnim sustavima i vodnim resursima, a preostali slabo poznaju navedeno.

S druge strane, 65% ispitanih umjereno poznaje ulogu i aktivnosti lokalnih uprava za prekogranično upravljanje vodoopskrbnim sustavima, a ostali slabo poznaju.

Nešto manje od polovice ispitanika upoznato je sa zakonskim okvirima u RH (sporazumi, ugovori i sl.) značajnim za regionalne prekogranične vodoopskrbne sustave i upravljanje vodnim resursima.

Polovica ispitanika umjereno je upoznata s pitanjima i poteškoćama u vezi prekograničnog upravljanja vodnim resursima, dok su preostali slabo upoznati.

Približno jednak broj ispitanika smatra da je provedba Planova za upravljanje riječnim slivovima na nacionalnoj razini u tijeku i da je neodlučena. Sličan odgovor dobiven je i za provedbu Planova upravljanja prekograničnim riječnim slivovima.

Osim 10% ispitanika koji se nisu izjasnili, svi ostali smatraju korisnim ovaj tip radionica, koje su prilika za razmjenu mišljenja o problemima zaštite krškog vodonosnika i vodoopskrbi.



PRIJEVOD:

FIRST NATIONAL WORKSHOP WITHIN THE PROJECT DRINK ADRIA IN REPUBLIC OF CROATIA,

April 17th 2014 / Plant Butoniga - Water utility of Istria Ltd.

First national workshop within the project Networking for Drinking Water Supply in Adriatic Region (DRINK ADRIA) in Republic of Croatia, was held on April 17th 2014, in the meeting room of plant Butoniga, Water utility of Istria Ltd.

The workshop was organized by Water utility of Istria Ltd., Region of Istria, Faculty of Civil Engineering - University of Rijeka and Croatian Geological Survey, in order to present the project and involve stakeholders in project activities, so that they would contribute to defined goals achieving and project sustainability with their knowledge and experience.

The invitation to participate in the workshop was sent to 9 utility companies, 2 counties, 14 local government units (towns and municipalities), 3 institutes of public health, Croatian waters and Institute for Agriculture and Tourism in Poreč from Croatia and to 3 utility companies, 4 towns/municipalities, 2 institutes of public health and Environment Agency in Slovenia.

The workshop was attended by 44 participants.

Along with Croatian project partners the workshop was also attended by representative of University of Ljubljana - Faculty of Civil Engineering and Geodesy and representatives of associate institutions Croatian waters and Istrian Water Protection System.

The response of stakeholders who were invited was poor. Water utility Pula, Municipality Oprtalj, Public Health Institute of Region of Istria and Teaching Institute of Public Health of Primorsko-goranska county responded to the call.

The workshop began with welcoming speech of the Water utility of Istria Ltd. director Laura Šuperina, dipl.iur., who said that she hopes that the project will be successfully implemented. A short film about the history of Water utility of Istria and the system that he covers was shown.

It was followed by introductory lectures. Doc.dr.sc. Primož Banovec from University of Ljubljana - Faculty of Civil Engineering and Geodesy presented basic ideas and goals of the project Drink Adria, in presentation "Networking for Drinking Water Supply in Adriatic Region". He described the project preparation (partnership development), structure (work packages) and presented the project website.

After that, izv.prof.dr.sc. Barbara Karleuša from Faculty of Civil Engineering - University of Rijeka presented an overview of planned activities of Croatian partners within the Drink Adria project. She pointed out four Croatian project partners and three associate institutions, and their specific activities. She described work packages in which certain partners are involved, as well as project pilot areas (Mirna basin, and springs in Dalmatia Prud and Blatsko polje on the island of Korčula).



Ljiljana Dravec, dipl.ing.kem.teh. from Region of Istria continued the lectures, and presented the protection of karst aquifers in the Region of Istria. She gave a review of the Region of Istria EU projects which aim to protect karst and karst aquifers, with special reference to the activities of Region of Istria in DRINK ADRIA project and expected results.

Mladen Nežić, dipl.ing.građ. from Water utility of Istria Ltd. held a presentation about spring Gradole.

Mr.sc. Josip Rubinić from Faculty of Civil Engineering - University of Rijeka held a presentation about water resources for water supply and critical dry hydrological conditions. He spoke about hydrological droughts, the most important historically recorded drought in 2011/2012, and gave examples of climate change/variability.

Dr.sc. Josip Terzić from Croatian Geological Survey held a presentation about water resources study and comparison of water supply systems from water intake of spring Prud by Metković and Blato aquifer on Korčula. He described the pilot area of Prud and Blato as two naturally independent systems, whose connection is a water supply system. He gave a review of project tasks, and of CC-WaterS project methodology.

Dr.sc. Bojana Hajduk Črneha from IWS - Istrian Water Protection System presented the impact of change in ways of water quality assessment on drinking water resources protection in Istria. She spoke about water classification according to old and new regulation, and about assessment of water chemical status.

The last presentation was held by Želimir Pekaš, dipl.ing.geol. from Croatian waters, who presented ISTRAHIDRO project, as cross-border activities for ground water protection between the bay of Trieste and Kvarner bay. He described the area covered by the project, target groups and project objectives.

After the lectures, there was a discussion between the participants. The workshop was closed by izv.prof.dr.sc. Barbara Karleuša, and the discussion continued during refreshment. Butoniga plant tour was organized for all interested.

Participants were given questionnaires regarding the cross-border water supply and water resources management. A total of 20 questionnaires are filled.

On the basis of the filled questionnaires it can be concluded that 50% of respondents deal with government (mostly regional), 35% with water supply, 15% with research, and some of them also deal with sewerage and water protection. The main activities of respondents are mostly related to water supply (40%) and water protection (40%), and to a lesser extent to education/research, international cooperation and finance/legislation. Those activities are mainly at the regional (52%) and local (27%) level.

It is recognized that current main problem in water supply management is the shortage of financial resources, but large problem is also the infrastructure and legislation with political frameworks. That is followed by problems with quantities, losses, quality, tariffs, climate change and capacities, and the least problem is poor cooperation.

The biggest problem regarding water losses is the leakage of distribution network, which is followed by measurement errors, unauthorized consumption and leakage of water supply facilities.

In water quantity issues as the biggest problems are considered seasonal fluctuations and climate change, and somewhat smaller problems are increasing water consumption, water storage capacity, high consumption caused by other sectors and changes in land use.

Spring protection issues are considered the biggest problem regarding water quality, and big problems are also seasonal fluctuations and climate change. They are followed by point and non-point sources of pollution and changes in land use.

Deterioration is recognized as the main problem of water supply distribution, as well as inadequate network and poor maintenance of water supply systems. They are followed by smaller problems - lack of reservoirs and pumping stations capacities.

In the near future (next 25-30 years) the main water supply management limitations are considered to be quantity, quality and lack of financial resources. It is followed by losses, climate change, legislation and political framework, infrastructure, water tariffs and capacities. Poor cooperation is considered to be the smallest limitation.

Respondents think that some cross-border issues could be resolved primarily with better cooperation between local and state governments, as well as with better cooperation between different sectors and with more financial resources. They also consider that the separation of politics from solving most of the problems is somewhat a better solution than politics solving most of the problems.

75% of respondents consider that the state activity is not the only one that contributes to improvement of water supply system, but also local and regional self-government, utility companies, Croatian waters, universities and scientific-research institutions, and individuals.

About half of the respondents are moderately familiar with the role and activities of bilateral commissions for cross-border management of water supply systems and water resources, and the rest are poorly familiar.

On the other side, 65% of respondents are moderately familiar with the role and activities of local governments for cross-border management of water supply systems, and the rest are poorly familiar.

Slightly less than half of the respondents is familiar with legal framework in Croatia (agreements, contracts etc.) that is important for regional cross-border water supply systems and water resources management.

Half of the respondents are moderately familiar with issues and difficulties regarding cross-border water resources management, while the rest are poorly familiar.

Approximately the same number of respondents considers that the implementation of River Basin Management Plans on national level is in progress and that it is undecided. A similar response was obtained for the implementation of River Basin Management Plans for cross-border river basins.

Except 10% of respondents who didn't respond, all the others consider this type of workshops helpful, because they provide an opportunity to exchange views on issues of karst aquifers protection and water supply.

UPITNIK O REGIONALNIM, PREKOGRANIČNIM VODOOPSKRBNIM SUSTAVIMA I UPRAVLJANJU VODENIM RESURSIMA

1. Vaša institucija/ misija organizacije/ glavni djelokrug rada:

Vodoopskrba: 35 %

Uprava:

lokalna: 5 %

regionalna: 45 %

državna: 0 %

Istraživačka organizacija: 15 %

Udruga za vodu: 0 %

Ostalo (molimo specificirati): 15 % (od toga 33,3 %: Odvodnja i zaštita voda)

Na pitanje nije odgovorilo: 5 % ispitanika

2. Vaše glavne aktivnosti fokusirane su na:

vodoopskrbu: 40 %

vodozaštitu: 40 %

obrazovanje/istraživanje: 15 %

međunarodna suradnja: 10 %

financije/zakonodavstvo: 5 %

drugo, imenujte: 15 % (od toga 33,3 %: Zaštita prirode i okoliša)

Na pitanje nije odgovorilo: /

3. Koja prostorna skala najbolje odražava vaše aktivnosti i zadatke?

lokalno: 27 %

regionalno: 52 %

državno: 15 %

međunarodno: 6 %

drugo, imenujte: 0 %

Na pitanje nije odgovorilo: 5 % ispitanika

4. Koji su glavni problemi upravljanja vodoopskrbom/ sadašnji problemi?
(rangirano od najznačajnijeg do najmanje značajnog)

Nedostatak financijskih sredstava: (61)

Infrastruktura: (63)

Zakonodavstvo i politički okviri: (64)

Kvantiteta ili količina: (67)

Gubici: (70)

Kvaliteta: (72)

Tarife za vodu: (80)

Klimatske promjene: (81)

Kapaciteti: (87)

-tehnički: (90)

-ljudski: (97)

-institucionalni: (99)

Loša suradnja: (102)

Drugo, imenujte: (120)

Na pitanje nije odgovorilo: /

5. Molimo rangirajte sljedeće u pogledu ranije spomenutih pitanja/problema:
(rangirano od najznačajnijeg do najmanje značajnog)

GUBICI

propuštanje distribucijske mreže: (36)

pogreške u mjerenju: (64)

neovlaštena potrošnja: (66)

propuštanje objekata vodoopskrbe: (69)

drugo, molimo specificirajte: (107) (tehnološka voda)

Na pitanje nije odgovorilo: 5 % ispitanika

KOLIČINA ili KVANTITETA

sezonske oscilacije: (30)

klimatske promjene: (52)

povećanje potrošnje vode: (72)

kapaciteti skladištenja vode: (72)

visoka potrošnja uzrokovana drugim sektorima (poljoprivreda, industrija i sl.): (85)

promjene u korištenju zemljišta: (90)

drugo, molimo specificirajte: (116)

Na pitanje nije odgovorilo: /

KVALITETA

pitanja zaštite izvora: (53)

sezonske oscilacije: (56)

klimatske promjene: (65)

točkasti izvor zagađenja: (74)

netočkasti izvori zagađenja: (80)

promjene u praksi korištenja zemljišta: (94)

drugo, molimo specificirajte: (120)

Na pitanje nije odgovorilo: /

GLAVNI PROBLEMI VODOOPSKRBNJE DISTRIBUCIJE

dotrajalost: (34)

neadekvatna mreža: (47)

loše održavanje distribucijskih sustava vodoopskrbe: (51)

nedostatak rezervoara: (63)

kapaciteti crpnih stanica: (74)

drugo, molimo specificirajte: (108)

Na pitanje nije odgovorilo: 10 % ispitanika

6. Koja su glavna vodoopskrbna upravljačka ograničenja u bližoj budućnosti (sljedećih 25-30 godina) ?
(rangirano od najznačajnijeg do najmanje značajnog)

Količina: (45)

Kvaliteta: (55)

Nedostatak finansijskih sredstava: (61)

Gubici: (78)

Klimatske promjene: (79)

Zakonodavstvo i politički okvir: (81)

Infrastruktura: (81)

Tarife za vodu: (88)

Kapaciteti: (89)

-ljudski: (100)

-tehnički: (103)

-institucionalni: (104)

Slaba suradnja: (105)

Drugo, imenujte: (120)

Na pitanje nije odgovorilo: /

7. Koji su najvažniji koraci i aktivnosti koje će unaprijediti vodoopskrbu u smislu navedenih pitanja i ograničenja?

"Zaštita voda, integrirano upravljanje vodama."

"Preventivna zaštita."

"Osiguranje kapaciteta skladištenja vode, analize utjecaja klimatskih promjena na zalihe i potrebe."

"Uspostava funkcionalne sanitarne zaštite. Prilagodba crpnih režima sezonskim oscilacijama i klimatskim promjenama."

"Unaprijediti zaštitu izvorišta kako bi se smanjili troškovi obrade sirove vode. Smanjiti pritiske na vodne resurse."

"Unaprijediti vodoopskrbu i zbrinjavanje krutog i tekućeg otpada."

"Obnova vodoopskrbne mreže i smanjenje gubitaka."

"Plan razvoja područja na kojem djeluje Istarski vodovod d.o.o. Buzet."

"Uspostava primjerene zaštite kroz strateške i planske dokumente, ali i implementacije EU Direktive i razvojem zakonodavstva."

"Planski razvoj; stručni kadar; bolji zakonodavni okvir."

"Znanje, ulaganje u ljudske resurse; financiranje u nove tehnologije i infrastrukturu; održavanje."

8. Mislite li da bi se neka prekogranična pitanja mogla riješiti sa:

(rangirano od najznačajnijeg do najmanje značajnog)

Bolja suradnja između lokalne i državne uprave: (47)

Bolja suradnja između različitih sektora: (54)

Više financijskih resursa: (56)

Odvajanje politike od rješavanja većine problema: (63)

Politika bi mogla riješiti većinu problema: (83)

Tarife za vodu: (90)

Drugo, imenovati: (114) (optimalizacija sustava vodoopskrbe; politika treba više slušati stručnjake)

Na pitanje nije odgovorilo: /

9. Molimo navedite tri najznačajnija sudionika/ radnje za unaprijeđenje vodoopskrbe i upravljanje vodnim resursima:

RH, regionalna samouprava, JLS, Hrvatske vode.

Komunalna društva (Istarski vodovod d.o.o. Buzet), upravitelji sustava vodoopskrbe/odvodnje.

Istraživačke institucije.

Vodozaštita i vodoopskrba - pronalazak potrebnih financijskih sredstava, zakonski okvir.

Zaštita izvorišta, monitoring.

Očuvanje kvalitete resursa; povezivanje resursa; povezivanje sustava.

Kontrola, analiza.

Zaštita krškog vodonosnika (administrativne mjere-odluke, programi), unaprijeđenje sustava javne vodoopskrbe (razvoj mreže i rekonstrukcija stare), unaprijeđenje sustava javne odvodnje i zbrinjavanja krutog otpada.

Bolje održavanje postojeće infrastrukture. Svakodnevno praćenje gubitaka.

Znanje/obrazovanje; nova tehnologija; zadovoljstvo djelatnika i potrošača.

10. Što može učiniti vaša institucija/ organizacija kao bi unaprijedila vodoopskrbu, upravljanje vodnim resursima te kako bi pridonijela njenoj održivosti?

"Zaštita izvorišta pitke vode od zagađenja otpadnim vodama." (IVS d.o.o.)

"Donijeti program zaštite voda. Realizirati projekt zaštite voda." (IVS d.o.o.)

"Unaprijediti administrativne mjere u definiranju zona zaštite, gospodarenja krutim i tekućim otpadom, i provoditi aktivnu zaštitu kroz program praćenja." (Istarska županija)

"Djelovati u cilju zaštite izvorišta i podzemnih voda, utjecati na sadržaje propisa." (Istarska županija)

"Potencirati da se što više investira u modernizaciju i obnovu sustava vodoopskrbe." (Istarski vodovod d.o.o.)

"Povezivanje resursa, održavanje, smanjenje gubitaka." (Istarski vodovod d.o.o.)

"Održavanje kvalitete vode." (Istarski vodovod d.o.o.)

"Pomoći znanjem o upravljanju vodoopskrbnim objektima." (Istarski vodovod d.o.o.)

"Uspostava zona sanitarne zaštite; zahvaćanje novih zaliha podzemne vode; istraživanje/monitoring kakvoće." (HGI)

"Praćenje kvalitete vode, davanje mišljenja, izrada izvještaja." (NZJZ PGŽ)

"Donijeti zakonom propisane dokumente." (anonimno)

"Usvajanje prostorno-planske dokumentacije i sufinanciranje kapitalnih projekata infrastrukture." (anonimno)

"Znanje/obrazovanje; nova tehnologija; održavanje." (anonimno)

"Provoditi analize i istraživanja u cilju boljeg upoznavanja s problemima, i modeliranje mogućih rješenja." (anonimno)

11. Mislite li da samo državna aktivnost pridonosi unapređenju vodoopskrbnog sustava:

DA: 20 %

NE: 75 %

Ukoliko je Vaš odgovor NE molimo navedite ostale institucije koje mogu unaprijediti vodoopskrbni sustav:

Lokalna samouprava,
regionalna samouprava,
vodoopskrbna poduzeća,
Hrvatske vode,

sveučilišta, znanstveno-istraživačke institucije,
lokalno, pojedinac, društvo.

Na pitanje nije odgovorilo: 5 % ispitanika

12. Vaše poznavanje/ znanje s ulogom i aktivnostima bilateralnih komisija za regionalno prekogranično upravljanje vodoopskrbnim sustavima i upravljanje vodnim resursima:

Sveobuhvatno: 0 %

Umjereno: 55 %

Slabo: 45 %

Na pitanje nije odgovorilo: /

13. Vaše poznavanje/ znanje s ulogom i aktivnostima lokalnih uprava za regionalno prekogranično upravljanje vodoopskrbnim sustavima:

Sveobuhvatno: 0 %

Umjereno: 65 %

Slabo: 35 %

Na pitanje nije odgovorilo: /

14. Postoje li u vašoj zemlji zakonski okviri (sporazumi, ugovori, Memorandumi o razumijevanju i sl.) koji su značajni za regionalne prekogranične vodoopskrbne sustave i upravljanje vodenim resursima s kojima ste upoznati:

DA: 40 %

NE: 45 %

Ukoliko je Vaš odgovor DA, molimo navedite naslov.

Ugovor o korištenju izvora Bužin i Gabrijeli između Istarskog vodovoda d.o.o. Buzet i Rižanskog vodovoda Koper (Slo); Ugovor o isporuci vode između Istarskog vodovoda (Hr) i Rižanskog vodovoda Koper (Slo); Ugovor između Vlade RH i Vlade R. Slovenije o uređivanju vodnogospodarskih odnosa;

Na pitanje nije odgovorilo: 15 % ispitanika

15. Jeste li upoznati sa pitanjima/ poteškoćama u pogledu regionalnih prekograničnih upravljanja vodenim resursima:

Sveobuhvatno: 5 %

Umjereno: 50 %

Slabo: 45 %

Molimo komentirajte ukoliko želite: /

Na pitanje nije odgovorilo: /

16. Razina provedbe Planova za upravljanje riječnim slivovima na nacionalnoj razini:

Završen: 0 %

U tijeku: 40 %

Neodlučen: 35 %

Molimo komentirajte ukoliko želite:

“Planovi su izrađeni i sada su na provjeri od strane EU.”

Na pitanje nije odgovorilo: 25 % ispitanika

17. Razina provedbe o Planovima upravljanja riječnim slivovima (prekogranični riječni slivovi):

Završen: 0 %

U tijeku: 30 %

Neodlučen: 40 %

Molimo komentirajte ukoliko želite: /

Na pitanje nije odgovorilo: 30 % ispitanika

18. Koje su najvažnije teme s kojima biste se željeli upoznati vezano za regionalne prekogranične vodoopskrbne sustave te upravljanje vodenim resursima:

“Zaštita voda u slivnim područjima izvora.”

“Zaštita vodnih resursa.”

“Rješavanje problema prekograničnih zona sanitarne zaštite.”

“Mogućnost povezivanja vodoopskrbnih sustava.”

“Rad na prekograničnim protokolima.”

“Status Planova; prekogranično upravljanje vodenim resursima.”

“Suradnja Istarske županije i općina u Sloveniji.”

“Rok; cijena isporučene vode.”

“Problematika distribucije; način/rješenje održavanja; financiranje.”

“Zakonodavne i financijske mogućnosti suradnje.”

19. Smatrate li korisnim ovaj tip radionica/ okruglih stolova:

DA: 90 %

NE: 0 %

NE ZNAM: 0 %

Na pitanje nije odgovorilo: 10 % ispitanika

20. Dodatni komentari:

"Veoma je koristan ovakav vid susreta dionika, koji svaki sa svog vidika sagledavaju problematiku zaštite krškog vodonosnika i vodoopskrbe."

PRIJEVOD:

**QUESTIONNAIRE ON REGIONAL, CROSS-BORDER WATER SUPPLY SYSTEMS AND WATER
RESOURCES MANAGEMENT**

1. Your institution/ organisation mission/ the main scope of work:

Water supply: 35 %

Government:

local: 5 %

regional: 45 %

state: 0 %

Research organization: 15 %

Water Association: 0 %

Other (please specify): 15 % (therefrom 33,3 %: Sewerage and water protection)

The question wasn't answered by: 5 % of respondents

2. Your main activities are focused on:

Water supply: 40 %

Water protection: 40 %

Education/research: 15 %

International cooperation: 10 %

Finance/Legislation: 5 %

Other, specify: 15 % (therefrom 33,3 %: Nature and environment protection)

The question wasn't answered by: /

3. Which spatial scale best reflects your activities and tasks?

local: 27 %

regional: 52 %

state: 15 %

international: 6 %

other, specificity: 0 %

The question wasn't answered by: 5 % of respondents

4. What are the main problems of managing water supply / current problems?
(ranked from most important to least important)

Lack of financial resources: (61)

Infrastructure: (63)

Legislation and political framework: (64)

Quantity or amount: (67)

Losses: (70)

Quality: (72)

Water tariffs: (80)

Climate change: (81)

Capacities: (87)

-technical: (90)

-human: (97)

-institutional: (99)

Poor cooperation: (102)

Other, specify: (120)

The question wasn't answered by: /

5. Please rank the following in terms of previously mentioned issues/problems:
(ranked from most important to least important)

WATER LOSSES

leakage of distribution network: (36)

measurement errors: (64)

unauthorized consumption: (66)

leakage of water supply facilities: (69)

other, please specify: (107) (technological water)

The question wasn't answered by: 5 % of respondents

AMOUNT OR QUANTITY

seasonal fluctuations: (30)

climate change: (52)

increase in water consumption: (72)

water storage capacities: (72)

high consumption caused by other sectors (agriculture, industry etc.): (85)

changes in land use: (90)

other, please specify: (116)

The question wasn't answered by: /

QUALITY

spring protection issues: (53)

seasonal fluctuations: (56)

climate change: (65)

point sources of pollution: (74)

non-point sources of pollution: (80)

changes in land use practice: (94)

other, please specify: (120)

The question wasn't answered by: /

MAIN PROBLEMS OF WATER SUPPLY DISTRIBUTION

deterioration: (34)

inadequate network: (47)

poor maintenance of water supply distribution systems: (51)

lack of reservoirs: (63)

pumping stations capacities: (74)

other, please specify: (108)

The question wasn't answered by: 10 % of respondents

6. What are the main water supply management limitations in the near future (next 25-30 years)?
(ranked from most important to least important)

Quantity: (45)

Quality: (55)

Lack of financial resources: (61)

Losses: (78)

Climate change: (79)

Legislation and political framework: (81)

Infrastructure: (81)

Water tariffs: (88)

Capacities: (89)

- human: (100)

- technical: (103)

- institutional: (104)

Poor cooperation: (105)

Other, specify: (120)

The question wasn't answered by: /

7. Which are the most important steps and activities that will improve water supply in terms of mentioned issues and limitations?

"Water protection, integrated water management."

"Preventive protection."

"Ensuring water storage capacities, analyzing the impact of climate change on supplies and needs."

"The establishment of functional sanitary protection. Adjustment of pumping regime to seasonal fluctuations and climate change."

"To improve spring protection in order to reduce the costs of raw water treatment. Reduce the pressures on water resources. To improve water supply and disposal of solid and liquid waste."

"Renewal of water supply network and loss reduction."

"Development plan for the area where Water utility of Istria operates."

"The establishment of appropriate protection through strategic and planning documents, as well as the EU Directive implementation and legislation development."

"Planned development; professional staff; better legal framework."

"Knowledge, investment in human resources; financing of new technologies and infrastructure; maintenance."

8. Do you think that some of the cross-border issues could be resolved with:
(ranked from most important to least important)

Better cooperation between local and state government: (47)

Better cooperation between different sectors: (54)

More financial resources: (56)

Separation of politics from solving most of the problems: (63)

Politics could solve most of the problems: (83)

Water tariffs: (90)

Other, specify: (114) (optimization of water supply system; politics needs to listen experts more)

The question wasn't answered by: /

9. Please list the three most important participants/actions for improvement of water supply and water resources management:

Republic of Croatia, regional self-government, local self-government units, Croatian waters.

Utility companies (Water utility of Istria), managers of water supply/sewerage systems.

Research institutions.

Water protection and water supply - finding necessary financial resources, legal framework.

Spring protection, monitoring.

Resources quality preservation; connecting resources; connecting systems.

Control, analysis.

Karst aquifer protection (administrative measures - decisions, programs), public water supply system improvement (network development and reconstruction of the old one), improvement of public sewerage system and solid waste disposal.

Better maintenance of existing infrastructure. Daily losses monitoring.

Knowledge/education; new technology; contentment of employees and consumers.

10. What can your institution/organization do to improve water supply, water resources management and to contribute to its sustainability?

"Protection of drinking water springs against pollution with waste water." (IWS Ltd.)

"Make water protection program. Implement the project for water protection." (IWS Ltd.)

"Improving administrative measures in defining protection zones, solid and liquid waste management, and implement active protection through monitoring program." (Region of Istria)

"Working toward spring and groundwater protection, influence the regulations content." (Region of Istria)

"Emphasize more investments in modernization and reconstruction of water supply systems." (Water utility of Istria)

"Connecting resources, maintenance, loss reduction." (Water utility of Istria)

"Water quality maintenance." (Water utility of Istria)

"To help with knowledge on water supply facilities management." (Water utility of Istria)

"Establishment of sanitary protection zones; extraction of new groundwater supplies; quality research/monitoring." (CGS)

"Water quality monitoring, providing opinions, reports preparation." (TIPH of Primorsko-goranska county)

"Make documents regulated by law." (anonymous)

"The adoption of spatial planning documentation and infrastructure capital projects co-financing." (anonymous)

"Knowledge/education; new technology, maintenance." (anonymous)

"Conducting analysis and research in order to better understand the problems, and modeling of possible solutions." (anonymous)

11. Do you think that only state activity contributes to water supply system improvement:

YES: 20 %

NO: 75 %

If you answered NO please list other institutions that can improve water supply system:

Local self-government,
regional self-government,
utility companies,
Croatian waters,
universities, scientific-research institutions,
locally, individual, society.

The question wasn't answered by: 5 % of respondents.

12. Your knowledge of role and activities of the bilateral commissions for regional cross-border water supply systems management and water resource management:

Comprehensive: 0 %

Moderate: 55 %

Poor: 45 %

The question wasn't answered by: /

13. Your knowledge of role and activities of the local governments for regional cross-border water supply systems management:

Comprehensive: 0 %

Moderate: 65 %

Poor: 35 %

The question wasn't answered by: /

14. Are there legal frameworks in your country (agreements, contracts, Memorandums of Understanding etc.) which are important for regional cross-border water supply systems and water resources management, that you are familiar with:

YES: 40 %

NO: 45 %

If you answered YES, please provide a title.

Contract for the use of springs Bužin and Gabrijeli between Water utility of Istria and Water utility of Rijana (Koper, Slo); Contract for the water delivery between Water utility of Istria (Cro) and Water utility of Rijana (Koper, Slo); Contract between the Croatian Government and Slovenian Government on the regulation of water management relations;

The question wasn't answered by: 15 % of respondents.

15. Are you familiar with issues/difficulties regarding regional cross-border water resources management:

Comprehensive: 5 %

Moderate: 50 %

Poor: 45 %

Please comment if you want: /

The question wasn't answered by: /

16. Implementation level of River Basin Management Plans on national level:

Completed: 0 %

In progress: 40 %

Undecided: 35 %

Please comment if you want:

"Plans have been made and now they are tested by the EU."

The question wasn't answered by: 25 % of respondents.

17. Implementation level of River Basin Management Plans (cross-border river basins):

Completed: 0 %

In progress: 30 %

Undecided: 40 %

Please comment if you want: /

The question wasn't answered by: 30 % of respondents.

18. What are the most important subjects that you would like to get to know, regarding regional cross-border water supply systems and water resources management:

"Protection of waters in spring catchment areas."

"Water resources protection."

"Solving the problem of cross-border sanitary protection zones."

"Possibility to connect water supply systems."

"Working on cross-border protocols."

"Status of the Plans; cross-border water resources management."

"Cooperation between Region of Istria and municipalities in Slovenia."

"Deadline; price of delivered water."

"Distribution issue; maintenance method/solution; financing."

"Legislative and financial possibilities of cooperation."

19. Do you consider this type of workshops/roundtables helpful:

YES: 90 %

NO: 0 %

I don't know: 0 %

The question wasn't answered by: 10 % of respondents.

20. Additional comments:

"This kind of participants meeting is very useful, because each of them perceives the issues of karst aquifer protection and water supply from his own view."





UPITNIK O REGIONALNIM, PREKOGRANIČNIM VODOOPSKRBNIM SUSTAVIMA I UPRAVLJANJU VODENIM RESURSIMA

Kapitalizacija i održiva djelatnost (CS) su vrlo važne komponente projekta, koje će osigurati okvir za razmjenu relevantnih informacija značajnih za prekogranične, regionalne vodoopskrbne sisteme između diokija, uprave, istraživačkih institucija itd.

Vaše mišljenje i povratne informacije prikupljene tijekom nacionalnih radionica dati će vrijedne informacije i pridonijeti će uspješnoj provedbi projekta DRINK ADRIA.

Ime:	ROMEO
Prezime:	MAREAN
Institucija/ Organizacija: (Ukoliko želite ostati anonimni, molimo ne popunjavati)	IVS.d.o.o.

Vaša institucija/ misija organizacije/ glavni djelokrug rada:

☐ Vodoopskrba
 ☐ Uprava: ☐ lokalna ☒ regionalna ☐ državna
☐ Istraživačka organizacija ☐ Udruga za vodu ☐ Ostalo (molimo specificirati):

Vaše glavne aktivnosti fokusirane su na :

☐ vodoopskrbu ☒ vodozaštitu ☐ obrazovanje/istraživanje
☐ međunarodna suradnja ☐ financije/zakonodavstvo ☐ drugo, imenujte :

Koja prostorna skala najbolje odražava vaše aktivnosti i zadatke?
(Molimo koristite postotke na način da konačan zbroj bude 100%
Primjer: lokalno -55%, državno -25%, drugo - 20%)

lokalno 25% regionalno 25% državno 50% međunarodno % drugo, imenujte : %, %

Koji su glavni problemi upravljanja vodoopskrbom/ sadašnji problemi?
(Molimo rangirajte: 1 najznačajnije , 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

☐ Gubici ☒ Kvantiteta ili količina ☐ Kvaliteta ☒ Tarife za vodu
☒ Zakonodavstvo i politički okviri ☐ Nedostatak finansijskih sredstava ☒ Infrastruktura
☐ Kapaciteti: ☐ institucionalni ☐ tehnički ☐ ljudski
☒ Klimatske promjene ☐ Loša suradnja ☐ Drugo, imenujte :

Molimo rangirajte sljedeće u pogledu ranije spomenutih pitanja/problema::

(Molimo rangirajte: 1 najznačajnije , 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

GUBICI

- | | | |
|---|---|---|
| <input type="checkbox"/> neovlaštena potrošnja | <input type="checkbox"/> pogreške u mjerenju | <input type="checkbox"/> propuštanje distribucijske mreže |
| <input type="checkbox"/> propuštanje distribucijske mreže | | |
| <input type="checkbox"/> drugo, molimo specificirajte | <input type="checkbox"/> propuštanje objekata vodoopskrbe | |

KOLIČINA ili KVANTITETA

- | | | |
|---|---|---|
| <input type="checkbox"/> povećanje potrošnje vode | <input checked="" type="checkbox"/> sezonske oscilacije | <input type="checkbox"/> kapaciteti skladištenja vode |
| <input type="checkbox"/> promjene u korištenju zemljišta i sl.) | <input type="checkbox"/> visoka potrošnja uzrokovana drugim sektorima (poljoprivreda, industrija) | |
| <input checked="" type="checkbox"/> klimatske promjene | <input type="checkbox"/> drugo, molimo specificirajte | |

KVALITETA

- | | | |
|---|---|--|
| <input type="checkbox"/> točkasti izvor zagađenja | <input type="checkbox"/> netočasti izvori zagađenja | <input type="checkbox"/> pitanja zaštite izvora |
| <input type="checkbox"/> promjene u praksi korištenja zemljišta | <input checked="" type="checkbox"/> sezonske oscilacije | <input checked="" type="checkbox"/> klimatske promjene |
| <input type="checkbox"/> drugo, molimo specificirajte | | |

GLAVNI PROBLEMI VODOOPSKRBNJE DISTRIBUCIJE

- | | | |
|--|--|--|
| <input type="checkbox"/> neadekvatna mreža | <input type="checkbox"/> kapaciteti crpnih stanica | <input type="checkbox"/> nedostatak rezervoara |
| <input type="checkbox"/> loše održavanje distribucijskih sustava vodoopskrbe | | <input type="checkbox"/> dotrajalost |
| <input type="checkbox"/> drugo, molimo specificirajte | | |

Koja su glavna vodoopskrbna upravljačka ograničenja u bližoj budućnosti (sljedećih 25-30 godina) ?

(Molimo rangirajte: 1 najznačajnije , 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

- | | | | |
|--|---|--|---|
| <input type="checkbox"/> Gubici | <input type="checkbox"/> Količina | <input type="checkbox"/> Kvaliteta | <input type="checkbox"/> Tarife za vodu |
| <input checked="" type="checkbox"/> Zakonodavstvo i politički okvir | <input checked="" type="checkbox"/> Nedostatak finansijskih sredstava | <input type="checkbox"/> Infrastruktura | |
| <input type="checkbox"/> Kapaciteti: <input type="checkbox"/> institucionalni <input type="checkbox"/> tehnički <input type="checkbox"/> ljudski | | | |
| <input checked="" type="checkbox"/> Klimatske promjene | <input type="checkbox"/> Slaba suradnja | <input type="checkbox"/> Drugo, imenujte | |

Koji su najvažniji koraci i aktivnosti koje će unaprijediti vodoopskrbu u smislu navedenih pitanja i ograničenja?

Mislite li da bi se neka prekogranična pitanja mogla riješiti sa:

(Molimo rangirajte: 1 najznačajnije , 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

- | |
|--|
| <input type="checkbox"/> Politika bi mogla riješiti većinu problema |
| <input checked="" type="checkbox"/> Odvajanje politike od rješavanja većine problema |

- ☒ Bolja suradnja između različitih sektora
☒ Bolja suradnja između lokalne i državne uprave
☐ Više financijskih resursa
☐ Tarife za vodu
☐ Drugo, imenovati :

Molimo navedite tri najznačajnija sudionika/ radnje za unaprijeđenje vodoopskrbe i upravljanje vodnim resursima:

Što može učiniti vaša institucija/ organizacija kao bi unaprijedila vodoopskrbu, upravljanje vodnim resursima te kako bi pridonijela njenoj održivosti?

zastita izvorista pitke vode od zagađivanja otpadnim vodama

Mislite li da samo državna aktivnost pridonosi unapređenju vodoopskrbnog sustava:

☐ DA ☐ NE

Ukoliko je Vaš odgovor NE molimo navedite ostale institucije koje mogu unaprijediti vodoopskrbni sustav:

Vaše poznavanje/ znanje s ulogom i aktivnostima bilateralnih komisija za regionalno prekogranično upravljanje vodoopskrbnim sustavima i upravljanje vodnim resursima:

☐ Sveobuhvatno ☐ Umjereno ☒ Slabo

Vaše poznavanje/ znanje s ulogom i aktivnostima lokalnih uprava za regionalno prekogranično upravljanje vodoopskrbnim sustavima:

☐ Sveobuhvatno ☐ Umjereno ☒ Slabo

Postoje li u vašoj zemlji zakonski okviri (sporazumi, ugovori, Memorandumi o razumijevanju i sl.) koji su značajni za regionalne prekogranične vodoopskrbne sustave i upravljanje vodenim resursima s kojima ste upoznati:

☐ Da ☐ NE

Ukoliko je Vaš odgovor DA, molimo navedite naslov.

Jeste li upoznati sa pitanjima/ poteškoćama u pogledu regionalnih prekograničnih upravljanja vodenim resursima:

☐ Sveobuhvatno ☐ Umjereno ☒ Slabo

Molimo komentirajte ukoliko želite:

Razina provedbe Planova za upravljanje riječnim slivovima na nacionalnoj razini:

☐ Završen ☐ U tijeku ☐ Neodlučen

Molimo komentirati ako želite:

Razina provedbe o Planovima upravljanja riječnim slivovima (prekogranični riječni slivovi):

☐ Završen ☐ U tijeku ☐ Neodlučen

Molimo komentirati ako želite:

Koje su najvažnije teme s kojima biste se željeli upoznati vezano za regionalne prekogranične vodoopskrbne sustave te upravljanje vodenim resursima:

Smatrate li korisnim ovaj tip radionica/ okruglih stolova:

☐ DA ☐ NE ☐ NE ZNAM

Dodatni komentari:

UPITNIK O REGIONALNIM, PREKOGRANIČNIM VODOOPSKRBNIM SUSTAVIMA I UPRAVLJANJU VODENIM RESURSIMA

Kapitalizacija i održiva djelatnost (CS) su vrlo važne komponente projekta, koje će osigurati okvir za razmjenu relevantnih informacija značajnih za prekogranične, regionalne vodoopskrbne sisteme između diokija, uprave, istraživačkih institucija itd.

Vaše mišljenje i povratne informacije prikupljene tijekom nacionalnih radionica dati će vrijedne informacije i pridonijeti će uspješnoj provedbi projekta DRINK ADRIA.

Ime:	DANIJEZ
Prezime:	BANC
Institucija/ Organizacija: (Ukoliko želite ostati anonimni, molimo ne popunjavati)	ISTARSKI VODOVOD D.O.O.

Vaša institucija/ misija organizacije/ glavni djelokrug rada:

☒ Vodoopskrba
 ☒ Uprava: ☐ lokalna ☐ regionalna ☐ državna
☐ Istraživačka organizacija ☐ Udruga za vodu ☐ Ostalo (molimo specificirati):

Vaše glavne aktivnosti fokusirane su na :

☒ vodoopskrbu ☐ vodozaštitu ☐ obrazovanje/istraživanje
☐ međunarodna suradnja ☐ financije/zakonodavstvo ☐ drugo, imenujte :

Koja prostorna skala najbolje odražava vaše aktivnosti i zadatke?
 (Molimo koristite postotke na način da konačan zbroj bude 100%
 Primjer: lokalno -55%, državno -25%, drugo - 20%)

lokalno __% regionalno __% državno __% međunarodno __% drugo, imenujte : ____, __%

Koji su glavni problemi upravljanja vodoopskrbom/ sadašnji problemi?
 (Molimo rangirajte: 1 najznačajnije , 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

☒ Gubici ☐ Kvantiteta ili količina ☐ Kvaliteta ☒ Tarife za vodu
☒ Zakonodavstvo i politički okviri ☒ Nedostatak financijskih sredstava ☒ Infrastruktura
☐ Kapaciteti: ☐ institucionalni ☐ tehnički ☐ ljudski
☐ Klimatske promjene ☐ Loša suradnja ☐ Drugo, imenujte :

Molimo rangirajte sljedeće u pogledu ranije spomenutih pitanja/problema::

(Molimo rangirajte: 1 najznačajnije , 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

GUBICI

- ☒ neovlaštena potrošnja ☒ pogreške u mjerenju ☒ propuštanje distribucijske mreže
☐ propuštanje distribucijske mreže
☐ drugo, molimo specificirajte ☒ propuštanje objekata vodoopskrbe

KOLIČINA ili KVANTITETA

- ☒ povećanje potrošnje vode ☒ sezonske oscilacije ☒ kapaciteti skladištenja vode
☐ promjene u korištenju zemljišta ☒ visoka potrošnja uzrokovana drugim sektorima (poljoprivreda, industrija i sl.) ☒ klimatske promjene ☐ drugo, molimo specificirajte

KVALITETA

- ☐ točkasti izvor zagađenja ☐ netočasti izvori zagađenja ☐ pitanja zaštite izvora
☐ promjene u praksi korištenja zemljišta ☒ sezonske oscilacije ☒ klimatske promjene
☐ drugo, molimo specificirajte

GLAVNI PROBLEMI VODOOPSKRBE DISTRIBUCIJE

- ☒ neadekvatna mreža ☒ kapaciteti crpnih stanica ☒ nedostatak rezervoara
☒ loše održavanje distribucijskih sustava vodoopskrbe ☒ dotrajalost
☐ drugo, molimo specificirajte

Koja su glavna vodoopskrbna upravljačka ograničenja u bližoj budućnosti (sljedećih 25-30 godina) ?

(Molimo rangirajte: 1 najznačajnije , 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

- ☒ Gubici ☒ Količina ☐ Kvaliteta ☒ Tarife za vodu
☒ Zakonodavstvo i politički okvir ☒ Nedostatak finansijskih sredstava ☐ Infrastruktura
☐ Kapaciteti: ☐ institucionalni ☐ tehnički ☐ ljudski
☐ Klimatske promjene ☐ Slaba suradnja ☐ Drugo, imenujte

Koji su najvažniji koraci i aktivnosti koje će unaprijediti vodoopskrbu u smislu navedenih pitanja i ograničenja?

- PLAN RAZVOJA PODRUČJA NA KOJEM DJELOUJE
IVB. (PLAN RAZVOJA IVB ZA NAREĐNO VRIJEĆE)

Mislite li da bi se neka prekogranična pitanja mogla riješiti sa:

(Molimo rangirajte: 1 najznačajnije , 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

- ☐ Politika bi mogla riješiti većinu problema
☒ Odvajanje politike od rješavanja većine problema

<input checked="" type="checkbox"/> Bolja suradnja između različitih sektora <input checked="" type="checkbox"/> Bolja suradnja između lokalne i državne uprave <input checked="" type="checkbox"/> Više financijskih resursa <input checked="" type="checkbox"/> Tarife za vodu <input type="checkbox"/> Drugo, imenovati :
Molimo navedite tri najznačajnija sudionika/ radnje za unaprijeđenje vodoopskrbe i upravljanje vodnim resursima: - IJB G.O.O. - HRVATSKA VOĐE - GRADOVI I OPĆINE (KAO SVLASNICI IJB-a)
Što može učiniti vaša institucija/ organizacija kao bi unaprijedila vodoopskrbu, upravljanje vodnim resursima te kako bi pridonijela njenoj održivosti? - POTENCIJIRATI DA SE ŠTO VIŠE INVESTIRA U MODERNIZACIJU I OBRNOVU SUSTAVA VODOOP.
Mislite li da samo državna aktivnost pridonosi unapređenju vodoopskrbnog sustava: <input type="checkbox"/> DA <input checked="" type="checkbox"/> NE Ukoliko je Vaš odgovor NE molimo navedite ostale institucije koje mogu unaprijediti vodoopskrbni sustav: - GRADOVI OPĆINE, HRVATSKA VOĐE
Vaše poznavanje/ znanje s ulogom i aktivnostima bilateralnih komisija za regionalno prekogranično upravljanje vodoopskrbnim sustavima i upravljanje vodnim resursima: <input type="checkbox"/> Sveobuhvatno <input type="checkbox"/> Umjereno <input checked="" type="checkbox"/> Slabo
Vaše poznavanje/ znanje s ulogom i aktivnostima lokalnih uprava za regionalno prekogranično upravljanje vodoopskrbnim sustavima: <input type="checkbox"/> Sveobuhvatno <input type="checkbox"/> Umjereno <input checked="" type="checkbox"/> Slabo
Postoje li u vašoj zemlji zakonski okviri (sporazumi, ugovori, Memorandumi o razumijevanju i sl.) koji su značajni za regionalne prekogranične vodoopskrbne sustave i upravljanje vodenim resursima s kojima ste upoznati: <input checked="" type="checkbox"/> DA <input type="checkbox"/> NE Ukoliko je Vaš odgovor DA, molimo navedite naslov. RAZDANJSKI VODOVOD
Jeste li upoznati sa pitanjima/ poteškoćama u pogledu regionalnih prekograničnih upravljanja vodenim resursima: <input type="checkbox"/> Sveobuhvatno <input type="checkbox"/> Umjereno <input checked="" type="checkbox"/> Slabo Molimo komentirati ukoliko želite:

Razina provedbe Planova za upravljanje riječnim slivovima na nacionalnoj razini:

☐ Završen ☒ U tijeku ☐ Neodlučen

Molimo komentirajte ukoliko želite:

Razina provedbe o Planovima upravljanja riječnim slivovima (prekogranični riječni slivovi):

☐ Završen ☒ U tijeku ☐ Neodlučen

Molimo komentirajte ukoliko želite:

Koje su najvažnije teme s kojima biste se željeli upoznati vezano za regionalne prekogranične vodoopskrbne sustave te upravljanje vodenim resursima:

- ROK
- CIJENA ISPORUČENE VODE

Smatrate li korisnim ovaj tip radionica/ okruglih stolova:

☒ DA ☐ NE ☐ NE ZNAM

Dodatni komentari:

UPITNIK O REGIONALNIM, PREKOGRANIČNIM VODOOPSKRBNIM SUSTAVIMA I UPRAVLJANJU VODENIM RESURSIMA

Kapitalizacija i održiva djelatnost (CS) su vrlo važne komponente projekta, koje će osigurati okvir za razmjenu relevantnih informacija značajnih za prekogranične, regionalne vodoopskrbne sisteme između diokija, uprave, istraživačkih institucija itd.

Vaše mišljenje i povratne informacije prikupljene tijekom nacionalnih radionica dati će vrijedne informacije i pridonijeti će uspješnoj provedbi projekta DRINK ADRIA.

Ime:	PAVLE
Prezime:	FERIĆ
Institucija/ Organizacija: (Ukoliko želite ostati anonimni, molimo ne popunjavati)	Hrvatski geološki institut

Vaša institucija/ misija organizacije/ glavni djelokrug rada:

☐ Vodoopskrba
 ☐ Uprava: ☐ lokalna ☐ regionalna ☐ državna
☒ Istraživačka organizacija
 ☐ Udruga za vodu
 ☐ Ostalo (molimo specificirati):

Vaše glavne aktivnosti fokusirane su na :

☐ vodoopskrbu
 ☐ vodozaštitu
 ☒ obrazovanje/istraživanje
☐ međunarodna suradnja
 ☐ financije/zakonodavstvo
 ☐ drugo, imenujte :

Koja prostorna skala najbolje odražava vaše aktivnosti i zadatke?
(Molimo koristite postotke na način da konačan zbroj bude 100%
Primjer: lokalno -55%, državno -25%, drugo - 20%)

lokalno 20%
 regionalno 15%
 državno 55%
 međunarodno 10%
 drugo, imenujte : _____, _ %

Koji su glavni problemi upravljanja vodoopskrbom/ sadašnji problemi?
(Molimo rangirajte: 1 najznačajnije , 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

☒ Gubici
 ☒ Kvantiteta ili količina
 ☒ Kvaliteta
 ☒ Tarife za vodu
☒ Zakonodavstvo i politički okviri
 ☐ Nedostatak financijskih sredstava
 ☒ Infrastruktura
☒ Kapaciteti: ☒ institucionalni ☒ tehnički ☒ ljudski
☒ Klimatske promjene
 ☒ Loša suradnja
 ☐ Drugo, imenujte :

Molimo rangirajte sljedeće u pogledu ranije spomenutih pitanja/problema::

(Molimo rangirajte: 1 najznačajnije , 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

GUBICI

- ☒ neovlaštena potrošnja ☒ pogreške u mjerenju ☒ propuštanje distribucijske mreže
☒ propuštanje distribucijske mreže
☒ drugo, molimo specificirajte ☒ propuštanje objekata vodoopskrbe

KOLIČINA ili KVANTITETA

- ☒ povećanje potrošnje vode ☒ sezonske oscilacije ☒ kapaciteti skladištenja vode
☒ promjene u korištenju zemljišta ☒ visoka potrošnja uzrokovana drugim sektorima (poljoprivreda, industrija i sl.) ☒ klimatske promjene ☒ drugo, molimo specificirajte

KVALITETA

- ☒ točkasti izvor zagađenja ☒ netočasti izvori zagađenja ☒ pitanja zaštite izvora
☒ promjene u praksi korištenja zemljišta ☒ sezonske oscilacije ☒ klimatske promjene
☐ drugo, molimo specificirajte

GLAVNI PROBLEMI VODOOPSKRBE DISTRIBUCIJE

- ☒ neadekvatna mreža ☒ kapaciteti crpnih stanica ☒ nedostatak rezervoara
☒ loše održavanje distribucijskih sustava vodoopskrbe ☒ dotrajalost
☐ drugo, molimo specificirajte

Koja su glavna vodoopskrbna upravljačka ograničenja u bližoj budućnosti (sljedećih 25-30 godina) ?

(Molimo rangirajte: 1 najznačajnije , 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

- ☒ Gubici ☒ Količina ☒ Kvaliteta ☒ Tarife za vodu
☒ Zakonodavstvo i politički okvir ☒ Nedostatak finansijskih sredstava ☒ Infrastruktura
☒ Kapaciteti: ☒ institucionalni ☒ tehnički ☒ ljudski
☒ Klimatske promjene ☒ Slaba suradnja ☐ Drugo, imenujte

Koji su najvažniji koraci i aktivnosti koje će unaprijediti vodoopskrbu u smislu navedenih pitanja i ograničenja?

Mislite li da bi se neka prekogranična pitanja mogla riješiti sa:

(Molimo rangirajte: 1 najznačajnije , 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

- ☒ Politika bi mogla riješiti većinu problema
☐ Odvajanje politike od rješavanja većine problema

<input type="checkbox"/> Bolja suradnja između različitih sektora <input checked="" type="checkbox"/> Bolja suradnja između lokalne i državne uprave <input checked="" type="checkbox"/> Više financijskih resursa <input checked="" type="checkbox"/> Tarife za vodu <input type="checkbox"/> Drugo, imenovati :
Molimo navedite tri najznačajnija sudionika/ radnje za unaprijeđenje vodoopskrbe i upravljanje vodnim resursima:
Što može učiniti vaša institucija/ organizacija kao bi unaprijedila vodoopskrbu, upravljanje vodnim resursima te kako bi pridonijela njenoj održivosti?
Mislite li da samo državna aktivnost pridonosi unapređenju vodoopskrbnog sustava: <input type="checkbox"/> DA <input checked="" type="checkbox"/> NE Ukoliko je Vaš odgovor NE molimo navedite ostale institucije koje mogu unaprijediti vodoopskrbni sustav:
Vaše poznavanje/ znanje s ulogom i aktivnostima bilateralnih komisija za regionalno prekogranično upravljanje vodoopskrbnim sustavima i upravljanje vodnim resursima: <input type="checkbox"/> Sveobuhvatno <input checked="" type="checkbox"/> Umjereno <input type="checkbox"/> Slabo
Vaše poznavanje/ znanje s ulogom i aktivnostima lokalnih uprava za regionalno prekogranično upravljanje vodoopskrbnim sustavima: <input type="checkbox"/> Sveobuhvatno <input checked="" type="checkbox"/> Umjereno <input type="checkbox"/> Slabo
Postoje li u vašoj zemlji zakonski okviri (sporazumi, ugovori, Memorandumi o razumijevanju i sl.) koji su značajni za regionalne prekogranične vodoopskrbne sustave i upravljanje vodenim resursima s kojima ste upoznati: <input type="checkbox"/> Da <input checked="" type="checkbox"/> NE Ukoliko je Vaš odgovor DA, molimo navedite naslov.
Jeste li upoznati sa pitanjima/ poteškoćama u pogledu regionalnih prekograničnih upravljanja vodenim resursima: <input type="checkbox"/> Sveobuhvatno <input checked="" type="checkbox"/> Umjereno <input type="checkbox"/> Slabo Molimo komentirati ukoliko želite:

Razina provedbe Planova za upravljanje riječnim slivovima na nacionalnoj razini:

☐ Završen ☐ U tijeku ☐ Neodlučen

Molimo komentirajte ukoliko želite:

Razina provedbe o Planovima upravljanja riječnim slivovima (prekogranični riječni slivovi):

☐ Završen ☐ U tijeku ☐ Neodlučen

Molimo komentirajte ukoliko želite:

Koje su najvažnije teme s kojima biste se željeli upoznati vezano za regionalne prekogranične vodoopskrbne sustave te upravljanje vodenim resursima:

Smatrate li korisnim ovaj tip radionica/ okruglih stolova:

☒ DA ☐ NE ☐ NE ZNAM

Dodatni komentari:

UPITNIK O REGIONALNIM, PREKOGRANIČNIM VODOOPSKRBNIM SUSTAVIMA I UPRAVLJANJU VODENIM RESURSIMA

Kapitalizacija i održiva djelatnost (CS) su vrlo važne komponente projekta, koje će osigurati okvir za razmjenu relevantnih informacija značajnih za prekogranične, regionalne vodoopskrbne sisteme između diokija, uprave, istraživačkih institucija itd.

Vaše mišljenje i povratne informacije prikupljene tijekom nacionalnih radionica dati će vrijedne informacije i pridonijeti će uspješnoj provedbi projekta DRINK ADRIA.

Ime:	JOSIP
Prezime:	TERZIO
Institucija/ Organizacija: (Ukoliko želite ostati anonimni, molimo ne popunjavati)	HRVATSKI GEOLOŠKI INSTITUT

Vaša institucija/ misija organizacije/ glavni djelokrug rada:

☐ Vodoopskrba
 ☐ Uprava: ☐ lokalna ☐ regionalna ☐ državna
☒ Istraživačka organizacija
 ☐ Udruga za vodu
 ☐ Ostalo (molimo specificirati):

Vaše glavne aktivnosti fokusirane su na :

☐ vodoopskrbu
 ☐ vodozaštitu
 ☒ obrazovanje/istraživanje
☐ međunarodna suradnja
 ☐ financije/zakonodavstvo
 ☐ drugo, imenujte :

Koja prostorna skala najbolje odražava vaše aktivnosti i zadatke?
(Molimo koristite postotke na način da konačan zbroj bude 100%
Primjer: lokalno -55%, državno -25%, drugo - 20%)

lokalno __%
 regionalno __%
 državno ⁷⁰%
 međunarodno ³⁰%
 drugo, imenujte : ____, __%

Koji su glavni problemi upravljanja vodoopskrbom/ sadašnji problemi?
(Molimo rangirajte: 1 najznačajnije , 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

☒ Gubici
 ☐ Kvantiteta ili količina
 ☒ Kvaliteta
 ☐ Tarife za vodu
☐ Zakonodavstvo i politički okviri
 ☐ Nedostatak financijskih sredstava
 ☐ Infrastruktura
☐ Kapaciteti: ☐ institucionalni ☐ tehnički ☐ ljudski
☒ Klimatske promjene
 ☐ Loša suradnja
 ☐ Drugo, imenujte :

Molimo rangirajte sljedeće u pogledu ranije spomenutih pitanja/problema::

(Molimo rangirajte: 1 najznačajnije, 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

GUBICI

- ☐ neovlaštena potrošnja 4 ☐ pogreške u mjerenju 3 ☐ propuštanje distribucijske mreže 1
☐ propuštanje distribucijske mreže 1
☐ drugo, molimo specificirajte ☐ propuštanje objekata vodoopskrbe

KOLIČINA ili KVANTITETA

- ☐ povećanje potrošnje vode 1 ☐ sezonske oscilacije 1 ☐ kapaciteti skladištenja vode 3
☐ promjene u korištenju zemljišta 5 ☐ visoka potrošnja uzrokovana drugim sektorima (poljoprivreda, industrija 4 i sl.) ☐ klimatske promjene 3 ☐ drugo, molimo specificirajte

KVALITETA

- ☐ točkasti izvor zagađenja 3 ☐ netočasti izvori zagađenja 2 ☐ pitanja zaštite izvora 1
☐ promjene u praksi korištenja zemljišta 4 ☐ sezonske oscilacije 1 ☐ klimatske promjene 3
☐ drugo, molimo specificirajte

GLAVNI PROBLEMI VODOOPSKRBE DISTRIBUCIJE

- ☐ neadekvatna mreža 3 ☐ kapaciteti crpnih stanica 4 ☐ nedostatak rezervoara 3
☐ loše održavanje distribucijskih sustava vodoopskrbe 2 ☐ dotrajalost 4
☐ drugo, molimo specificirajte

Koja su glavna vodoopskrbna upravljačka ograničenja u bližoj budućnosti (sljedećih 25-30 godina) ?

(Molimo rangirajte: 1 najznačajnije, 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

- ☐ Gubici 2 ☐ Količina 1 ☐ Kvaliteta 1 ☐ Tarife za vodu
☐ Zakonodavstvo i politički okvir 5 ☐ Nedostatak financijskih sredstava ☐ Infrastruktura 4
☐ Kapaciteti: ☐ institucionalni ☐ tehnički ☐ ljudski
☐ Klimatske promjene 3 ☐ Slaba suradnja ☐ Drugo, imenujte

Koji su najvažniji koraci i aktivnosti koje će unaprijediti vodoopskrbu u smislu navedenih pitanja i ograničenja?

- USPOSTAVA FUNKCIONALNE SANITARNE ZAŠTITE
- SAMIRANJE GUBITAKA U MREŽI
- PRILAGOĐBA CRPNIH REŽIMA SEZONSKIM OSCILACIJAMA I KLIM. PROM.

Mislite li da bi se neka prekogranična pitanja mogla riješiti sa:

(Molimo rangirajte: 1 najznačajnije, 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

- ☐ Politika bi mogla riješiti većinu problema 3
☐ Odvajanje politike od rješavanja većine problema 1

- ☐ Bolja suradnja između različitih sektora 2
☐ Bolja suradnja između lokalne i državne uprave 4
☐ Više financijskih resursa 5
☐ Tarife za vodu 5
☐ Drugo, imenovati :

Molimo navedite tri najznačajnija sudionika/ radnje za unaprijeđenje vodoopskrbe i upravljanje vodnim resursima:

- VODOVODI
 - ISTRAŽIVAČKE INSTITUCIJE
 - REGIONALNA UPRAVA

Što može učiniti vaša institucija/ organizacija kao bi unaprijedila vodoopskrbu, upravljanje vodnim resursima te kako bi pridonijela njenoj održivosti?

- USPOSTAVA ZONA SANITARNE ZAŠTITE
 - ZAHVAĆANJE NOVIH ZALIH PODZEMNE VODE
 - ISTRAŽIVANJE / MONITORING KAKVOĆE

Mislite li da samo državna aktivnost pridonosi unapređenju vodoopskrbnog sustava:

☐ DA ☒ NE

Ukoliko je Vaš odgovor NE molimo navedite ostale institucije koje mogu unaprijediti vodoopskrbni sustav:

HRVATSKE VODE, REGIONALNA (LOKALNA) UPRAVA, VODOVODI

Vaše poznavanje/ znanje s ulogom i aktivnostima bilateralnih komisija za regionalno prekogranično upravljanje vodoopskrbnim sustavima i upravljanje vodnim resursima:

☐ Sveobuhvatno ☐ Umjereno ☒ Slabo

Vaše poznavanje/ znanje s ulogom i aktivnostima lokalnih uprava za regionalno prekogranično upravljanje vodoopskrbnim sustavima:

☐ Sveobuhvatno ☐ Umjereno ☒ Slabo

Postoje li u vašoj zemlji zakonski okviri (sporazumi, ugovori, Memorandumi o razumijevanju i sl.) koji su značajni za regionalne prekogranične vodoopskrbne sustave i upravljanje vodenim resursima s kojima ste upoznati:

☐ Da ☒ NE

Ukoliko je Vaš odgovor DA, molimo navedite naslov.

Jeste li upoznati sa pitanjima/ poteškoćama u pogledu regionalnih prekograničnih upravljanja vodenim resursima:

☐ Sveobuhvatno ☒ Umjereno ☐ Slabo

Molimo komentirati ukoliko želite:

Razina provedbe Planova za upravljanje riječnim slivovima na nacionalnoj razini:

☐ Završen ☒ U tijeku ☐ Neodlučen

Molimo komentirajte ukoliko želite:

Razina provedbe o Planovima upravljanja riječnim slivovima (prekogranični riječni slivovi):

☐ Završen ☒ U tijeku ☐ Neodlučen

Molimo komentirajte ukoliko želite:

Koje su najvažnije teme s kojima biste se željeli upoznati vezano za regionalne prekogranične vodoopskrbne sustave te upravljanje vodenim resursima:

- RJEŠAVANJE PROBLEMA PREKOGRANIČNIH ZONA SANITARNE ZAŠTITE

Smatrate li korisnim ovaj tip radionica/ okruglih stolova:

☒ DA ☐ NE ☐ NE ZNAM

Dodatni komentari:

UPITNIK O REGIONALNIM, PREKOGRANIČNIM VODOOPSKRBNIM SUSTAVIMA I UPRAVLJANJU VODENIM RESURSIMA

Kapitalizacija i održiva djelatnost (CS) su vrlo važne komponente projekta, koje će osigurati okvir za razmjenu relevantnih informacija značajnih za prekogranične, regionalne vodoopskrbne sisteme između diokija, uprave, istraživačkih institucija itd.

Vaše mišljenje i povratne informacije prikupljene tijekom nacionalnih radionica dati će vrijedne informacije i pridonijeti će uspješnoj provedbi projekta DRINK ADRIA.

Ime:	
Prezime:	
Institucija/ Organizacija: (Ukoliko želite ostati anonimni, molimo ne popunjavati)	
Vaša institucija/ misija organizacije/ glavni djelokrug rada:	
<input checked="" type="checkbox"/> Vodoopskrba <input type="checkbox"/> Uprava: <input type="checkbox"/> lokalna <input type="checkbox"/> regionalna <input type="checkbox"/> državna <input type="checkbox"/> Istraživačka organizacija <input type="checkbox"/> Udruga za vodu <input type="checkbox"/> Ostalo (molimo specificirati):	
Vaše glavne aktivnosti fokusirane su na :	
<input checked="" type="checkbox"/> vodoopskrbu <input type="checkbox"/> vodozaštitu <input type="checkbox"/> obrazovanje/istraživanje <input type="checkbox"/> međunarodna suradnja <input type="checkbox"/> financije/zakonodavstvo <input type="checkbox"/> drugo, imenujte :	
Koja prostorna skala najbolje odražava vaše aktivnosti i zadatke? (Molimo koristite postotke na način da konačan zbroj bude 100% Primjer: lokalno -55%, državno -25%, drugo - 20%)	
lokalno <u>5</u> % regionalno <u>90</u> % državno <u>5</u> % međunarodno <u> </u> % drugo, imenujte : <u> </u> , <u> </u> %	
Koji su glavni problemi upravljanja vodoopskrbom/ sadašnji problemi? (Molimo rangirajte: 1 najznačajnije , 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)	
<input checked="" type="checkbox"/> Gubici <input checked="" type="checkbox"/> Kvantiteta ili količina <input checked="" type="checkbox"/> Kvaliteta <input checked="" type="checkbox"/> Tarife za vodu <input checked="" type="checkbox"/> Zakonodavstvo i politički okviri <input checked="" type="checkbox"/> Nedostatak financijskih sredstava <input checked="" type="checkbox"/> Infrastruktura <input type="checkbox"/> Kapaciteti: <input checked="" type="checkbox"/> institucionalni <input checked="" type="checkbox"/> tehnički <input checked="" type="checkbox"/> ljudski <input checked="" type="checkbox"/> Klimatske promjene <input checked="" type="checkbox"/> Loša suradnja <input type="checkbox"/> Drugo, imenujte :	

Molimo rangirajte sljedeće u pogledu ranije spomenutih pitanja/problema::

(Molimo rangirajte: 1 najznačajnije , 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

GUBICI

- ☒ neovlaštena potrošnja ☒ pogreške u mjerenju ☒ propuštanje distribucijske mreže
☐ propuštanje distribucijske mreže
☐ drugo, molimo specificirajte ☒ propuštanje objekata vodoopskrbe

KOLIČINA ili KVANTITETA

- ☒ povećanje potrošnje vode ☒ sezonske oscilacije ☒ kapaciteti skladištenja vode
☒ promjene u korištenju zemljišta ☒ visoka potrošnja uzrokovana drugim sektorima (poljoprivreda, industrija i sl.) ☒ klimatske promjene ☐ drugo, molimo specificirajte

KVALITETA

- ☐ točkasti izvor zagađenja ☐ netočasti izvori zagađenja ☒ pitanja zaštite izvora
☒ promjene u praksi korištenja zemljišta ☒ sezonske oscilacije ☒ klimatske promjene
☐ drugo, molimo specificirajte

GLAVNI PROBLEMI VODOOPSKRBNJE DISTRIBUCIJE

- ☒ neadekvatna mreža ☒ kapaciteti crpnih stanica ☒ nedostatak rezervoara
☒ loše održavanje distribucijskih sustava vodoopskrbe ☒ dotrajalost
☐ drugo, molimo specificirajte

Koja su glavna vodoopskrbna upravljačka ograničenja u bližoj budućnosti (sljedećih 25-30 godina) ?

(Molimo rangirajte: 1 najznačajnije , 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

- ☒ Gubici ☒ Količina ☒ Kvaliteta ☒ Tarife za vodu
☒ Zakonodavstvo i politički okvir ☐ Nedostatak finansijskih sredstava ☐ Infrastruktura
☐ Kapaciteti: ☒ institucionalni ☒ tehnički ☒ ljudski
☒ Klimatske promjene ☒ Slaba suradnja ☐ Drugo, imenujte

Koji su najvažniji koraci i aktivnosti koje će unaprijediti vodoopskrbu u smislu navedenih pitanja i ograničenja?

- PLANSKI RAZVOJ
- STRUČNI KADAR
- BOJI ZAKONODAVNI OKVIR

Mislite li da bi se neka prekogranična pitanja mogla riješiti sa:

(Molimo rangirajte: 1 najznačajnije , 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

- ☒ Politika bi mogla riješiti većinu problema
☒ Odvajanje politike od rješavanja većine problema

<input checked="" type="checkbox"/> 3 Bolja suradnja između različitih sektora <input checked="" type="checkbox"/> 2 Bolja suradnja između lokalne i državne uprave <input checked="" type="checkbox"/> 1 Više financijskih resursa <input checked="" type="checkbox"/> 2 Tarife za vodu <input type="checkbox"/> Drugo, imenovati :
Molimo navedite tri najznačajnija sudionika/ radnje za unaprijeđenje vodoopskrbe i upravljanje vodnim resursima:
Što može učiniti vaša institucija/ organizacija kao bi unaprijedila vodoopskrbu, upravljanje vodnim resursima te kako bi pridonijela njenoj održivosti?
Mislite li da samo državna aktivnost pridonosi unapređenju vodoopskrbnog sustava: <input type="checkbox"/> DA <input checked="" type="checkbox"/> NE Ukoliko je Vaš odgovor NE molimo navedite ostale institucije koje mogu unaprijediti vodoopskrbni sustav:
Vaše poznavanje/ znanje s ulogom i aktivnostima bilateralnih komisija za regionalno prekogranično upravljanje vodoopskrbnim sustavima i upravljanje vodnim resursima: <input type="checkbox"/> Sveobuhvatno <input checked="" type="checkbox"/> Umjereno <input type="checkbox"/> Slabo
Vaše poznavanje/ znanje s ulogom i aktivnostima lokalnih uprava za regionalno prekogranično upravljanje vodoopskrbnim sustavima: <input type="checkbox"/> Sveobuhvatno <input checked="" type="checkbox"/> Umjereno <input type="checkbox"/> Slabo
Postoje li u vašoj zemlji zakonski okviri (sporazumi, ugovori, Memorandumi o razumijevanju i sl.) koji su značajni za regionalne prekogranične vodoopskrbne sustave i upravljanje vodenim resursima s kojima ste upoznati: <input checked="" type="checkbox"/> Da <input type="checkbox"/> NE Ukoliko je Vaš odgovor DA, molimo navedite naslov.
Jeste li upoznati sa pitanjima/ poteškoćama u pogledu regionalnih prekograničnih upravljanja vodenim resursima: <input type="checkbox"/> Sveobuhvatno <input checked="" type="checkbox"/> Umjereno <input type="checkbox"/> Slabo Molimo komentirajte ukoliko želite:

<p>Razina provedbe Planova za upravljanje riječnim slivovima na nacionalnoj razini:</p> <p><input type="checkbox"/> Završen <input type="checkbox"/> U tijeku <input type="checkbox"/> Neodlučen</p> <p>Molimo komentirajte ukoliko želite:</p>
<p>Razina provedbe o Planovima upravljanja riječnim slivovima (prekogranični riječni slivovi):</p> <p><input type="checkbox"/> Završen <input type="checkbox"/> U tijeku <input type="checkbox"/> Neodlučen</p> <p>Molimo komentirajte ukoliko želite:</p>
<p>Koje su najvažnije teme s kojima biste se željeli upoznati vezano za regionalne prekogranične vodoopskrbne sustave te upravljanje vodenim resursima:</p>
<p>Smatrate li korisnim ovaj tip radionica/ okruglih stolova:</p> <p><input type="checkbox"/> DA <input type="checkbox"/> NE <input type="checkbox"/> NE ZNAM</p>
<p>Dodatni komentari:</p>

UPITNIK O REGIONALNIM, PREKOGRANIČNIM VODOOPSKRBNIM SUSTAVIMA I UPRAVLJANJU VODENIM RESURSIMA

Kapitalizacija i održiva djelatnost (CS) su vrlo važne komponente projekta, koje će osigurati okvir za razmjenu relevantnih informacija značajnih za prekogranične, regionalne vodoopskrbne sisteme između diokija, uprave, istraživačkih institucija itd.

Vaše mišljenje i povratne informacije prikupljene tijekom nacionalnih radionica dati će vrijedne informacije i pridonijeti će uspješnoj provedbi projekta DRINK ADRIA.

Ime:	JAKO
Prezime:	PREBLO
Institucija/ Organizacija: (Ukoliko želite ostati anonimni, molimo ne popunjavati)	KATREKI VODAROD d.o.o. ZURER

Vaša institucija/ misija organizacije/ glavni djelokrug rada:

☒ Vodoopskrba ☐ Uprava: ☐ lokalna ☐ regionalna ☐ državna
☐ Istraživačka organizacija ☐ Udruga za vodu ☐ Ostalo (molimo specificirati):

Vaše glavne aktivnosti fokusirane su na :

☒ vodoopskrbu ☐ vodozaštitu ☐ obrazovanje/istraživanje
☐ međunarodna suradnja ☐ financije/zakonodavstvo ☐ drugo, imenujte :

Koja prostorna skala najbolje odražava vaše aktivnosti i zadatke?
(Molimo koristite postotke na način da konačan zbroj bude 100%
Primjer: lokalno -55%, državno -25%, drugo - 20%)

lokalno 90% regionalno 5% državno 2% međunarodno 3% drugo, imenujte : , %

Koji su glavni problemi upravljanja vodoopskrbom/ sadašnji problemi?
(Molimo rangirajte: 1 najznačajnije , 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

☐ Gubici ☒ Kvantiteta ili količina ☒ Kvaliteta ☐ Tarife za vodu
☐ Zakonodavstvo i politički okviri ☐ Nedostatak finansijskih sredstava ☐ Infrastruktura
☐ Kapaciteti: ☐ institucionalni ☒ tehnički ☐ ljudski
☐ Klimatske promjene ☐ Loša suradnja ☐ Drugo, imenujte :

Molimo rangirajte sljedeće u pogledu ranije spomenutih pitanja/problema::

(Molimo rangirajte: 1 najznačajnije, 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

GUBICI

- ☐ neovlaštena potrošnja ☒ pogreške u mjerenju ☐ propuštanje distribucijske mreže
☐ propuštanje distribucijske mreže
☒ drugo, molimo specificirajte ☐ propuštanje objekata vodoopskrbe

TEHNOLOGIJA VODA

KOLIČINA ili KVANTITETA

- ☐ povećanje potrošnje vode ☒ sezonske oscilacije ☐ kapaciteti skladištenja vode
☐ promjene u korištenju zemljišta ☐ visoka potrošnja uzrokovana drugim sektorima (poljoprivreda, industrija i sl.) ☒ klimatske promjene ☐ drugo, molimo specificirajte

PRACINE

KVALITETA

- ☐ točkasti izvor zagađenja ☐ netočasti izvori zagađenja ☐ pitanja zaštite izvora
☐ promjene u praksi korištenja zemljišta ☐ sezonske oscilacije ☒ klimatske promjene
☐ drugo, molimo specificirajte

GLAVNI PROBLEMI VODOOPSKRBNJE DISTRIBUCIJE

- ☐ neadekvatna mreža ☐ kapaciteti crpnih stanica ☐ nedostatak rezervoara
☐ loše održavanje distribucijskih sustava vodoopskrbe ☐ dotrajalost
☐ drugo, molimo specificirajte

Koja su glavna vodoopskrbna upravljačka ograničenja u bližoj budućnosti (sljedećih 25-30 godina) ?

(Molimo rangirajte: 1 najznačajnije, 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

- ☒ Gubici ☒ Količina ☒ Kvaliteta ☐ Tarife za vodu
☐ Zakonodavstvo i politički okvir ☐ Nedostatak finansijskih sredstava ☐ Infrastruktura
☒ Kapaciteti: ☐ institucionalni ☐ tehnički ☐ ljudski
☒ Klimatske promjene ☐ Slaba suradnja ☐ Drugo, imenujte

Koji su najvažniji koraci i aktivnosti koje će unaprijediti vodoopskrbu u smislu navedenih pitanja i ograničenja?

VODNI RESURSI

Mislite li da bi se neka prekogranična pitanja mogla riješiti sa:

(Molimo rangirajte: 1 najznačajnije, 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

- ☐ Politika bi mogla riješiti većinu problema
☐ Odvajanje politike od rješavanja većine problema

<input checked="" type="checkbox"/> Bolja suradnja između različitih sektora <input checked="" type="checkbox"/> Bolja suradnja između lokalne i državne uprave <input type="checkbox"/> Više financijskih resursa <input type="checkbox"/> Tarife za vodu <input type="checkbox"/> Drugo, imenovati : <i>OPTIMIZACIJA SUSTAVA VODOOPSKRBE</i>
<p>Molimo navedite tri najznačajnija sudionika/ radnje za unaprijeđenje vodoopskrbe i upravljanje vodnim resursima:</p> <p><i>- HRVATSKE VODE</i> <i>- VODOOPSKRBNI SUSTAVI</i> <i>- KONTROLNI SUBJEKTI KVALITETE VODE</i></p>
<p>Što može učiniti vaša institucija/ organizacija kao bi unaprijedila vodoopskrbu, upravljanje vodnim resursima te kako bi pridonijela njenoj održivosti?</p> <p><i>- OBLAVNENJE GUBITAKA</i></p>
<p>Mislite li da samo državna aktivnost pridonosi unapređenju vodoopskrbnog sustava:</p> <p><input checked="" type="checkbox"/> DA <input type="checkbox"/> NE</p> <p>Ukoliko je Vaš odgovor NE molimo navedite ostale institucije koje mogu unaprijediti vodoopskrbni sustav:</p>
<p>Vaše poznavanje/ znanje s ulogom i aktivnostima bilateralnih komisija za regionalno prekogranično upravljanje vodoopskrbnim sustavima i upravljanje vodnim resursima:</p> <p><input type="checkbox"/> Sveobuhvatno <input checked="" type="checkbox"/> Umjereno <input type="checkbox"/> Slabo</p>
<p>Vaše poznavanje/ znanje s ulogom i aktivnostima lokalnih uprava za regionalno prekogranično upravljanje vodoopskrbnim sustavima:</p> <p><input type="checkbox"/> Sveobuhvatno <input type="checkbox"/> Umjereno <input checked="" type="checkbox"/> Slabo</p>
<p>Postoje li u vašoj zemlji zakonski okviri (sporazumi, ugovori, Memorandumi o razumijevanju i sl.) koji su značajni za regionalne prekogranične vodoopskrbne sustave i upravljanje vodenim resursima s kojima ste upoznati:</p> <p><input checked="" type="checkbox"/> Da <input type="checkbox"/> NE</p> <p>Ukoliko je Vaš odgovor DA, molimo navedite naslov.</p> <p><i>LOKALNA VODOOPSKRBA SUSTAVI</i></p>
<p>Jeste li upoznati sa pitanjima/ poteškoćama u pogledu regionalnih prekograničnih upravljanja vodenim resursima:</p> <p><input type="checkbox"/> Sveobuhvatno <input type="checkbox"/> Umjereno <input checked="" type="checkbox"/> Slabo</p> <p>Molimo komentirajte ukoliko želite:</p>

Razina provedbe Planova za upravljanje riječnim slivovima na nacionalnoj razini:

☐ Završen ☒ U tijeku ☐ Neodlučen

Molimo komentirajte ukoliko želite:

Razina provedbe o Planovima upravljanja riječnim slivovima (prekogranični riječni slivovi):

☐ Završen ☒ U tijeku ☐ Neodlučen

Molimo komentirajte ukoliko želite:

Koje su najvažnije teme s kojima biste se željeli upoznati vezano za regionalne prekogranične vodoopskrbne sustave te upravljanje vodenim resursima:

VODNI RESURSI

Smatrate li korisnim ovaj tip radionica/ okruglih stolova:

☒ DA ☐ NE ☐ NE ZNAM

Dodatni komentari:

UPITNIK O REGIONALNIM, PREKOGRANIČNIM VODOOPSKRBNIM SUSTAVIMA I UPRAVLJANJU VODENIM RESURSIMA

Kapitalizacija i održiva djelatnost (CS) su vrlo važne komponente projekta, koje će osigurati okvir za razmjenu relevantnih informacija značajnih za prekogranične, regionalne vodoopskrbne sisteme između diokija, uprave, istraživačkih institucija itd.

Vaše mišljenje i povratne informacije prikupljene tijekom nacionalnih radionica dati će vrijedne informacije i pridonijeti će uspješnoj provedbi projekta DRINK ADRIA.

Ime:	MLADEN
Prezime:	KEŠE
Institucija/ Organizacija: (Ukoliko želite ostati anonimni, molimo ne popunjavati)	ISTRAŽIVAČKI VODOSVOJ D.O.O. BUDVA

Vaša institucija/ misija organizacije/ glavni djelokrug rada:

☒ Vodoopskrba
 ☐ Uprava: ☐ lokalna ☐ regionalna ☐ državna
☐ Istraživačka organizacija ☐ Udruga za vodu ☐ Ostalo (molimo specificirati):

Vaše glavne aktivnosti fokusirane su na :

☒ vodoopskrbu ☐ vodozaštitu ☐ obrazovanje/istraživanje
☐ međunarodna suradnja ☐ financije/zakonodavstvo ☐ drugo, imenujte :

Koja prostorna skala najbolje odražava vaše aktivnosti i zadatke?
(Molimo koristite postotke na način da konačan zbroj bude 100%
Primjer: lokalno -55%, državno -25%, drugo - 20%)

lokalno __% regionalno 100% državno __% međunarodno __% drugo, imenujte : ____, __%

Koji su glavni problemi upravljanja vodoopskrbom/ sadašnji problemi?
(Molimo rangirajte: 1 najznačajnije , 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

☒ Gubici ☒ Kvantiteta ili količina ☒ Kvaliteta ☒ Tarife za vodu
☒ Zakonodavstvo i politički okviri ☒ Nedostatak finansijskih sredstava ☒ Infrastruktura
☐ Kapaciteti: ☒ institucionalni ☒ tehnički ☒ ljudski
☒ Klimatske promjene ☐ Loša suradnja ☐ Drugo, imenujte :

Molimo rangirajte sljedeće u pogledu ranije spomenutih pitanja/problema::
(Molimo rangirajte: 1 najznačajnije , 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

GUBICI

- ☒ neovlaštena potrošnja ☒ pogreške u mjerenju ☒ propuštanje distribucijske mreže
☒ propuštanje distribucijske mreže
☐ drugo, molimo specificirajte ☒ propuštanje objekata vodoopskrbe

KOLIČINA Ili KVANTITETA

- ☒ povećanje potrošnje vode ☒ sezonske oscilacije ☒ kapaciteti skladištenja vode
☐ promjene u korištenju zemljišta ☐ visoka potrošnja uzrokovana drugim sektorima (poljoprivreda, industrija i sl.) ☒ klimatske promjene ☐ drugo, molimo specificirajte

KVALITETA

- ☒ točkasti izvor zagađenja ☒ netočasti izvori zagađenja ☐ pitanja zaštite izvora
☐ promjene u praksi korištenja zemljišta ☒ sezonske oscilacije ☒ klimatske promjene
☐ drugo, molimo specificirajte

GLAVNI PROBLEMI VODOOPSKRBE DISTRIBUCIJE

- ☒ neadekvatna mreža ☒ kapaciteti crpnih stanica ☒ nedostatak rezervoara
☒ loše održavanje distribucijskih sustava vodoopskrbe ☒ dotrajalost
☐ drugo, molimo specificirajte

Koja su glavna vodoopskrbna upravljačka ograničenja u bližoj budućnosti (slijedećih 25-30 godina) ?
(Molimo rangirajte: 1 najznačajnije , 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

- ☒ Gubici ☒ Količina ☒ Kvaliteta ☒ Tarife za vodu
☒ Zakonodavstvo i politički okvir ☒ Nedostatak finansijskih sredstava ☒ Infrastruktura
☒ Kapaciteti: ☒ institucionalni ☒ tehnički ☒ ljudski
☒ Klimatske promjene ☐ Slaba suradnja ☐ Drugo, imenujte

Koji su najvažniji koraci i aktivnosti koje će unaprijediti vodoopskrbu u smislu navedenih pitanja i ograničenja?

Mislite li da bi se neka prekogranična pitanja mogla riješiti sa:

(Molimo rangirajte: 1 najznačajnije , 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

- ☒ Politika bi mogla riješiti većinu problema
☒ Odvajanje politike od rješavanja većine problema

<input checked="" type="checkbox"/> Bolja suradnja između različitih sektora <input checked="" type="checkbox"/> Bolja suradnja između lokalne i državne uprave <input checked="" type="checkbox"/> Više financijskih resursa <input checked="" type="checkbox"/> Tarife za vodu <input type="checkbox"/> Drugo, imenovati :
Molimo navedite tri najznačajnija sudionika/ radnje za unaprijeđenje vodoopskrbe i upravljanje vodnim resursima: - OČUVANJE KVALITETE RESURSA - POVEĆIVANJE RESURSA - POVEĆIVANJE SUSTAVA
Što može učiniti vaša institucija/ organizacija kao bi unaprijedila vodoopskrbu, upravljanje vodnim resursima te kako bi pridonijela njenoj održivosti? - POVEĆIVANJE RESURSA, ODRŽAVANJE, SMANJENJE GUBITAKA
Mislite li da samo državna aktivnost pridonosi unapređenju vodoopskrbnog sustava: <input type="checkbox"/> DA <input checked="" type="checkbox"/> NE Ukoliko je Vaš odgovor NE molimo navedite ostale institucije koje mogu unaprijediti vodoopskrbni sustav:
Vaše poznavanje/ znanje s ulogom i aktivnostima bilateralnih komisija za regionalno prekogranično upravljanje vodoopskrbnim sustavima i upravljanje vodnim resursima: <input type="checkbox"/> Sveobuhvatno <input checked="" type="checkbox"/> Umjereno <input type="checkbox"/> Slabo
Vaše poznavanje/ znanje s ulogom i aktivnostima lokalnih uprava za regionalno prekogranično upravljanje vodoopskrbnim sustavima: <input type="checkbox"/> Sveobuhvatno <input checked="" type="checkbox"/> Umjereno <input type="checkbox"/> Slabo
Postoje li u vašoj zemlji zakonski okviri (sporazumi, ugovori, Memorandumi o razumijevanju i sl.) koji su značajni za regionalne prekogranične vodoopskrbne sustave i upravljanje vodenim resursima s kojima ste upoznati: <input type="checkbox"/> Da <input checked="" type="checkbox"/> NE Ukoliko je Vaš odgovor DA, molimo navedite naslov.
Jeste li upoznati sa pitanjima/ poteškoćama u pogledu regionalnih prekograničnih upravljanja vodenim resursima: <input type="checkbox"/> Sveobuhvatno <input checked="" type="checkbox"/> Umjereno <input type="checkbox"/> Slabo Molimo komentirajte ukoliko želite:

<p>Razina provedbe Planova za upravljanje riječnim slivovima na nacionalnoj razini:</p> <p><input type="checkbox"/> Završen <input type="checkbox"/> U tijeku <input type="checkbox"/> Neodlučen</p> <p>Molimo komentirajte ukoliko želite:</p>
<p>Razina provedbe o Planovima upravljanja riječnim slivovima (prekogranični riječni slivovi):</p> <p><input type="checkbox"/> Završen <input type="checkbox"/> U tijeku <input type="checkbox"/> Neodlučen</p> <p>Molimo komentirajte ukoliko želite:</p>
<p>Koje su najvažnije teme s kojima biste se željeli upoznati vezano za regionalne prekogranične vodoopskrbne sustave te upravljanje vodenim resursima:</p>
<p>Smatrate li korisnim ovaj tip radionica/ okruglih stolova:</p> <p><input checked="" type="checkbox"/> DA <input type="checkbox"/> NE <input type="checkbox"/> NE ZNAM</p>
<p>Dodatni komentari:</p>

UPITNIK O REGIONALNIM, PREKOGRANIČNIM VODOOPSKRBNIM SUSTAVIMA I UPRAVLJANJU VODENIM RESURSIMA

Kapitalizacija i održiva djelatnost (CS) su vrlo važne komponente projekta, koje će osigurati okvir za razmjenu relevantnih informacija značajnih za prekogranične, regionalne vodoopskrbne sisteme između diokija, uprave, istraživačkih institucija itd.

Vaše mišljenje i povratne informacije prikupljene tijekom nacionalnih radionica dati će vrijedne informacije i pridonijeti će uspješnoj provedbi projekta DRINK ADRIA.

Ime:	FRANKO
Prezime:	KRIBAVČIĆ
Institucija/ Organizacija: (Ukoliko želite ostati anonimni, molimo ne popunjavati)	ISTARSKI VODENI D.O.O. - BREST

Vaša institucija/ misija organizacije/ glavni djelokrug rada:

☒ Vodoopskrba ☐ Uprava: ☐ lokalna ☐ regionalna ☐ državna
☐ Istraživačka organizacija ☐ Udruga za vodu ☐ Ostalo (molimo specificirati):

Vaše glavne aktivnosti fokusirane su na :

☒ vodoopskrbu ☐ vodozaštitu ☐ obrazovanje/istraživanje
☐ međunarodna suradnja ☐ financije/zakonodavstvo ☐ drugo, imenujte :

Koja prostorna skala najbolje odražava vaše aktivnosti i zadatke?
(Molimo koristite postotke na način da konačan zbroj bude 100%
Primjer: lokalno -55%, državno -25%, drugo - 20%)

lokalno 100% regionalno ___% državno ___% međunarodno ___% drugo, imenujte : ____, ___%

Koji su glavni problemi upravljanja vodoopskrbom/ sadašnji problemi?
(Molimo rangirajte: 1 najznačajnije , 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

☒ Gubici ☒ Kvantiteta ili količina ☒ Kvaliteta ☒ Tarife za vodu
☒ Zakonodavstvo i politički okviri ☒ Nedostatak financijskih sredstava ☒ Infrastruktura
☐ Kapaciteti: ☒ institucionalni ☒ tehnički ☒ ljudski
☒ Klimatske promjene ☒ Loša suradnja ☐ Drugo, imenujte :

Molimo rangirajte sljedeće u pogledu ranije spomenutih pitanja/problema::

(Molimo rangirajte: 1 najznačajnije , 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

GUBICI

- ☒ 4 neovlaštena potrošnja ☒ 3 pogreške u mjerenju ☒ 2 propuštanje distribucijske mreže
☒ 2 propuštanje distribucijske mreže ☒ 3 propuštanje objekata vodoopskrbe
☐ drugo, molimo specificirajte

KOLIČINA ili KVANTITETA

- ☒ 4 povećanje potrošnje vode ☒ 3 sezonske oscilacije ☒ 2 kapaciteti skladištenja vode
☒ 3 promjene u korištenju zemljišta i sl.) ☒ 4 visoka potrošnja uzrokovana drugim sektorima (poljoprivreda, industrija)
☒ 3 klimatske promjene ☐ drugo, molimo specificirajte

KVALITETA

- ☒ 3 točkasti izvor zagađenja ☒ 4 netočasti izvori zagađenja ☒ 1 pitanja zaštite izvora
☒ 3 promjene u praksi korištenja zemljišta ☒ 3 sezonske oscilacije ☒ 3 klimatske promjene
☐ drugo, molimo specificirajte

GLAVNI PROBLEMI VODOOPSKRBE DISTRIBUCIJE

- ☒ 2 neadekvatna mreža ☒ 3 kapaciteti crpnih stanica ☒ 3 nedostatak rezervoara
☒ 2 loše održavanje distribucijskih sustava vodoopskrbe ☒ 4 dotrajalost
☐ drugo, molimo specificirajte

Koja su glavna vodoopskrbna upravljačka ograničenja u bližoj budućnosti (sljedećih 25-30 godina) ?

(Molimo rangirajte: 1 najznačajnije , 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

- ☒ 4 Gubici ☒ 4 Količina ☒ 4 Kvaliteta ☒ 2 Tarife za vodu
☒ 3 Zakonodavstvo i politički okvir ☒ 4 Nedostatak finansijskih sredstava ☒ 4 Infrastruktura
☐ Kapaciteti: ☒ 4 institucionalni ☒ 2 tehnički ☒ 4 ljudski
☒ 3 Klimatske promjene ☒ 4 Slaba suradnja ☐ Drugo, imenujte

Koji su najvažniji koraci i aktivnosti koje će unaprijediti vodoopskrbu u smislu navedenih pitanja i ograničenja?

Količina, Gubici, Kvaliteta

Mislite li da bi se neka prekogranična pitanja mogla riješiti sa:

(Molimo rangirajte: 1 najznačajnije , 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

- ☒ 4 Politika bi mogla riješiti većinu problema
☒ 4 Odvajanje politike od rješavanja većine problema

<input checked="" type="checkbox"/> Bolja suradnja između različitih sektora <input checked="" type="checkbox"/> Bolja suradnja između lokalne i državne uprave <input checked="" type="checkbox"/> Više financijskih resursa <input checked="" type="checkbox"/> Tarife za vodu <input type="checkbox"/> Drugo, imenovati :
Molimo navedite tri najznačajnija sudionika/ radnje za unaprijeđenje vodoopskrbe i upravljanje vodnim resursima: KVALITETA VODE, GUBICI, KONTROLA
Što može učiniti vaša institucija/ organizacija kao bi unaprijedila vodoopskrbu, upravljanje vodnim resursima te kako bi pridonijela njenoj održivosti? ODRŽIVOST SUSTAVA VODOOPSKRBE, KONTROLA GUBITAKA ODRŽIVOST KVALITETA VODE
Mislite li da samo državna aktivnost pridonosi unapređenju vodoopskrbnog sustava: <input type="checkbox"/> DA <input checked="" type="checkbox"/> NE Ukoliko je Vaš odgovor NE molimo navedite ostale institucije koje mogu unaprijediti vodoopskrbni sustav: SUBJEKTI, ZASTUPNIŠTVO ISTRŽIVANJE INOVACIJE
Vaše poznavanje/ znanje s ulogom i aktivnostima bilateralnih komisija za regionalno prekogranično upravljanje vodoopskrbnim sustavima i upravljanje vodnim resursima: <input type="checkbox"/> Sveobuhvatno <input checked="" type="checkbox"/> Umjereno <input type="checkbox"/> Slabo
Vaše poznavanje/ znanje s ulogom i aktivnostima lokalnih uprava za regionalno prekogranično upravljanje vodoopskrbnim sustavima: <input type="checkbox"/> Sveobuhvatno <input checked="" type="checkbox"/> Umjereno <input type="checkbox"/> Slabo
Postoje li u vašoj zemlji zakonski okviri (sporazumi, ugovori, Memorandumi o razumijevanju i sl.) koji su značajni za regionalne prekogranične vodoopskrbne sustave i upravljanje vodenim resursima s kojima ste upoznati: <input checked="" type="checkbox"/> Da <input type="checkbox"/> NE Ukoliko je Vaš odgovor DA, molimo navedite naslov. UGOVOR O KORIŠĆENJU VODE BUDIM, GABRIJE, IZMJEŠTA I STRANKE VODOSKUPNOST I RIZIKI VODNE KONTROLA
Jeste li upoznati sa pitanjima/ poteškoćama u pogledu regionalnih prekograničnih upravljanja vodenim resursima: <input type="checkbox"/> Sveobuhvatno <input checked="" type="checkbox"/> Umjereno <input type="checkbox"/> Slabo Molimo komentirati ako želite:

Razina provedbe Planova za upravljanje riječnim slivovima na nacionalnoj razini:

☐ Završen ☐ U tijeku ☒ Neodlučen

Molimo komentirajte ukoliko želite:

Razina provedbe o Planovima upravljanja riječnim slivovima (prekogranični riječni slivovi):

☐ Završen ☐ U tijeku ☒ Neodlučen

Molimo komentirajte ukoliko želite:

Koje su najvažnije teme s kojima biste se željeli upoznati vezano za regionalne prekogranične vodoopskrbne sustave te upravljanje vodenim resursima:

MOGUĆIOSTI POUČAVANJA VODOOPSKRBNIM SUSTAVIMA

Smatrate li korisnim ovaj tip radionica/ okruglih stolova:

☒ DA ☐ NE ☐ NE ZNAM

Dodatni komentari:

UPITNIK O REGIONALNIM, PREKOGRANIČNIM VODOOPSKRBNIM SUSTAVIMA I UPRAVLJANJU VODENIM RESURSIMA

Kapitalizacija i održiva djelatnost (CS) su vrlo važne komponente projekta, koje će osigurati okvir za razmjenu relevantnih informacija značajnih za prekogranične, regionalne vodoopskrbne sisteme između diokija, uprave, istraživačkih institucija itd.

Vaše mišljenje i povratne informacije prikupljene tijekom nacionalnih radionica dati će vrijedne informacije i pridonijeti će uspješnoj provedbi projekta DRINK ADRIA.

Ime:	
Prezime:	
Institucija/ Organizacija: (Ukoliko želite ostati anonimni, molimo ne popunjavati)	
Vaša institucija/ misija organizacije/ glavni djelokrug rada:	
<input checked="" type="checkbox"/> Vodoopskrba <input type="checkbox"/> Uprava: <input type="checkbox"/> lokalna <input checked="" type="checkbox"/> regionalna <input type="checkbox"/> državna <input type="checkbox"/> Istraživačka organizacija <input type="checkbox"/> Udruga za vodu <input type="checkbox"/> Ostalo (molimo specificirati):	
Vaše glavne aktivnosti fokusirane su na :	
<input checked="" type="checkbox"/> vodoopskrbu <input checked="" type="checkbox"/> vodozaštitu <input type="checkbox"/> obrazovanje/istraživanje <input type="checkbox"/> međunarodna suradnja <input type="checkbox"/> financije/zakonodavstvo <input type="checkbox"/> drugo, imenujte :	
Koja prostorna skala najbolje odražava vaše aktivnosti i zadatke? (Molimo koristite postotke na način da konačan zbroj bude 100% Primjer: lokalno -55%, državno -25%, drugo - 20%)	
lokalno <u>5</u> % regionalno <u>9</u> % državno <u>5</u> % međunarodno <u> </u> % drugo, imenujte : <u> </u> , <u> </u> %	
Koji su glavni problemi upravljanja vodoopskrbom/ sadašnji problemi? (Molimo rangirajte: 1 najznačajnije , 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)	
<input checked="" type="checkbox"/> Gubici <input checked="" type="checkbox"/> Kvantiteta ili količina <input checked="" type="checkbox"/> Kvaliteta <input checked="" type="checkbox"/> Tarife za vodu <input checked="" type="checkbox"/> Zakonodavstvo i politički okviri <input checked="" type="checkbox"/> Nedostatak financijskih sredstava <input checked="" type="checkbox"/> Infrastruktura <input type="checkbox"/> Kapaciteti: <input type="checkbox"/> institucionalni <input type="checkbox"/> tehnički <input type="checkbox"/> ljudski <input type="checkbox"/> Klimatske promjene <input type="checkbox"/> Loša suradnja <input type="checkbox"/> Drugo, imenujte :	

Molimo rangirajte sljedeće u pogledu ranije spomenutih pitanja/problema::

(Molimo rangirajte: 1 najznačajnije, 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

GUBICI

- 5 ☐ neovlaštena potrošnja ☐ pogreške u mjerenju 3 ☐ propuštanje distribucijske mreže
☐ propuštanje distribucijske mreže
☐ drugo, molimo specificirajte 4 ☐ propuštanje objekata vodoopskrbe

KOLIČINA ili KVANTITETA

- ☐ povećanje potrošnje vode 3 ☐ sezonske oscilacije 3 ☐ kapaciteti skladištenja vode
☐ promjene u korištenju zemljišta 2 ☐ visoka potrošnja uzrokovana drugim sektorima (poljoprivreda, industrija i sl.) ☐ klimatske promjene ☐ drugo, molimo specificirajte

KVALITETA

- ☐ točkasti izvor zagađenja ☐ netočasti izvori zagađenja ☐ pitanja zaštite izvora
☐ promjene u praksi korištenja zemljišta 3 ☐ sezonske oscilacije ☐ klimatske promjene
☐ drugo, molimo specificirajte

GLAVNI PROBLEMI VODOOPSKRBE DISTRIBUCIJE

- 1 ☐ neadekvatna mreža ☐ kapaciteti crpnih stanica 3 ☐ nedostatak rezervoara
2 ☐ loše održavanje distribucijskih sustava vodoopskrbe 1 ☐ dotrajalost
☐ drugo, molimo specificirajte

Koja su glavna vodoopskrbna upravljačka ograničenja u bližoj budućnosti (slijedećih 25-30 godina)?

(Molimo rangirajte: 1 najznačajnije, 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

- ☐ Gubici 1 ☒ Količina ☐ Kvaliteta ☐ Tarife za vodu
☐ Zakonodavstvo i politički okvir ☒ Nedostatak finansijskih sredstava ☒ Infrastruktura (1)
☐ Kapaciteti: ☐ institucionalni ☐ tehnički ☐ ljudski
☐ Klimatske promjene ☐ Slaba suradnja ☐ Drugo, imenujte

Koji su najvažniji koraci i aktivnosti koje će unaprijediti vodoopskrbu u smislu navedenih pitanja i ograničenja?

- Znanje, ulaganje u ljudske resurse
- Financiranje u nove tehnologije i infrastrukturu
- Održavanje

Mislite li da bi se neka prekogranična pitanja mogla riješiti sa:

(Molimo rangirajte: 1 najznačajnije, 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

- ☐ Politika bi mogla riješiti većinu problema
☒ Odvajanje politike od rješavanja većine problema (1)

- ☒ Bolja suradnja između različitih sektora
☒ Bolja suradnja između lokalne i državne uprave
☒ Više financijskih resursa (u)
☐ Tarife za vodu
☐ Drugo, imenovati :

Molimo navedite tri najznačajnija sudionika/ radnje za unaprijeđenje vodoopskrbe i upravljanje vodnim resursima:

- ZNANJE / OBRAZOVANJE
 - TEKNOLOGIJA (voda)
 - ODRŽIVOST
 - ZADNOVOSTVO
 - DEKUPSIJE / TROŠAKA

Što može učiniti vaša institucija/ organizacija kao bi unaprijedila vodoopskrbu, upravljanje vodnim resursima te kako bi pridonijela njenoj održivosti?

- Održivost se može povećati sa
 - Povećanjem resursa / održivosti

Mislite li da samo državna aktivnost pridonosi unapređenju vodoopskrbnog sustava:

☐ DA ☒ NE

Ukoliko je Vaš odgovor NE molimo navedite ostale institucije koje mogu unaprijediti vodoopskrbni sustav:

(LOKALNA, POSJEDINAC / DRUŠTVO ...)

Vaše poznavanje/ znanje s ulogom i aktivnostima bilateralnih komisija za regionalno prekogranično upravljanje vodoopskrbnim sustavima i upravljanje vodnim resursima:

☐ Sveobuhvatno ☒ Umjereno ☐ Slabo

Vaše poznavanje/ znanje s ulogom i aktivnostima lokalnih uprava za regionalno prekogranično upravljanje vodoopskrbnim sustavima:

☐ Sveobuhvatno ☒ Umjereno ☐ Slabo

Postoje li u vašoj zemlji zakonski okviri (sporazumi, ugovori, Memorandumi o razumijevanju i sl.) koji su značajni za regionalne prekogranične vodoopskrbne sustave i upravljanje vodenim resursima s kojima ste upoznati:

☐ Da ☐ NE

???

Ukoliko je Vaš odgovor DA, molimo navedite naslov.

Jeste li upoznati sa pitanjima/ poteškoćama u pogledu regionalnih prekograničnih upravljanja vodenim resursima:

☐ Sveobuhvatno ☒ Umjereno ☐ Slabo

Molimo komentirajte ukoliko želite:

Razina provedbe Planova za upravljanje riječnim slivovima na nacionalnoj razini:

☐ Završen ☐ U tijeku ☐ Neodlučen

Molimo komentirati ukoliko želite:

NEPOZNATO

Razina provedbe o Planovima upravljanja riječnim slivovima (prekogranični riječni slivovi):

☐ Završen ☐ U tijeku ☐ Neodlučen

Molimo komentirati ukoliko želite:

NEPOZNATO

Koje su najvažnije teme s kojima biste se željeli upoznati vezano za regionalne prekogranične vodoopskrbne sustave te upravljanje vodenim resursima:

- PROJEKATNA DISTRIBUCIJE
- NABAV / RESURSIJE ODRŽAVANJA
- FINANCIJE

Smatrate li korisnim ovaj tip radionica/ okruglih stolova:

☒ DA ☐ NE ☐ NE ZNAM

Dodatni komentari:

UPITNIK O REGIONALNIM, PREKOGRANIČNIM VODOOPSKRBNIM SUSTAVIMA I UPRAVLJANJU VODENIM RESURSIMA

Kapitalizacija i održiva djelatnost (CS) su vrlo važne komponente projekta, koje će osigurati okvir za razmjenu relevantnih informacija značajnih za prekogranične, regionalne vodoopskrbne sisteme između diokija, uprave, istraživačkih institucija itd.

Vaše mišljenje i povratne informacije prikupljene tijekom nacionalnih radionica dati će vrijedne informacije i pridonijeti će uspješnoj provedbi projekta DRINK ADRIA.

Ime:	SEAW
Prezime:	GOTIC
Institucija/ Organizacija: (Ukoliko želite ostati anonimni, molimo ne popunjavati)	ISTARSKI VODOVOD d.o.o. BOUTET

Vaša institucija/ misija organizacije/ glavni djelokrug rada:

☐ Vodoopskrba
 ☐ Uprava: ☐ lokalna ☐ regionalna ☐ državna
☐ Istraživačka organizacija ☐ Udruga za vodu ☐ Ostalo (molimo specificirati):

Vaše glavne aktivnosti fokusirane su na :

☒ vodoopskrbu ☐ vodozaštitu ☐ obrazovanje/istraživanje
☐ međunarodna suradnja ☐ financije/zakonodavstvo ☐ drugo, imenujte :

Koja prostorna skala najbolje odražava vaše aktivnosti i zadatke?
 (Molimo koristite postotke na način da konačan zbroj bude 100%
 Primjer: lokalno -55%, državno -25%, drugo - 20%)

lokalno __% regionalno ¹⁰⁰__% državno __% međunarodno __% drugo, imenujte : ____, __%

Koji su glavni problemi upravljanja vodoopskrbom/ sadašnji problemi?
 (Molimo rangirajte: 1 najznačajnije , 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

☒ Gubici ☒ Kvantiteta ili količina ☒ Kvaliteta ☒ Tarife za vodu
☒ Zakonodavstvo i politički okviri ☒ Nedostatak financijskih sredstava ☒ Infrastruktura
☒ Kapaciteti: ☐ institucionalni ☒ tehnički ☒ ljudski
☒ Klimatske promjene ☐ Loša suradnja ☐ Drugo, imenujte :

Molimo rangirajte sljedeće u pogledu ranije spomenutih pitanja/problema::

(Molimo rangirajte: 1 najznačajnije, 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

GUBICI

- 3 ☐ neovlaštena potrošnja 2 ☐ pogreške u mjerenju 1 ☐ propuštanje distribucijske mreže
☐ propuštanje distribucijske mreže
4 ☐ drugo, molimo specificirajte ☐ propuštanje objekata vodoopskrbe

KOLIČINA Ili KVANTITETA

- 5 ☐ povećanje potrošnje vode 1 ☐ sezonske oscilacije 3 ☐ kapaciteti skladištenja vode
4 ☐ promjene u korištenju zemljišta ☐ visoka potrošnja uzrokovana drugim sektorima (poljoprivreda, industrija i sl.) 2 ☐ klimatske promjene ☐ drugo, molimo specificirajte

KVALITETA

- 5 ☐ točkasti izvor zagađenja ☐ netočasti izvori zagađenja 1 ☐ pitanja zaštite izvora
4 ☐ promjene u praksi korištenja zemljišta 2 ☐ sezonske oscilacije 3 ☐ klimatske promjene
☐ drugo, molimo specificirajte

GLAVNI PROBLEMI VODOOPSKRBE DISTRIBUCIJE

- 6 ☐ neadekvatna mreža 3 ☐ kapaciteti crpnih stanica 2 ☐ nedostatak rezervoara
4 ☐ loše održavanje distribucijskih sustava vodoopskrbe 1 ☐ dotrajalogost
☐ drugo, molimo specificirajte

Koja su glavna vodoopskrbna upravljačka ograničenja u bližoj budućnosti (sljedećih 25-30 godina) ?

(Molimo rangirajte: 1 najznačajnije, 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

- 3 ☐ Gubici 1 ☐ Količina 2 ☒ Kvaliteta ☐ Tarife za vodu
4 ☐ Zakonodavstvo i politički okvir ☒ Nedostatak finansijskih sredstava 2 ☐ Infrastruktura
3 ☐ Kapaciteti: ☐ institucionalni ☐ tehnički ☐ ljudski
5 ☐ Klimatske promjene ☐ Slaba suradnja ☐ Drugo, imenujte

Koji su najvažniji koraci i aktivnosti koje će unaprijediti vodoopskrbu u smislu navedenih pitanja i ograničenja?

Mislite li da bi se neka prekogranična pitanja mogla riješiti sa:

(Molimo rangirajte: 1 najznačajnije, 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

- ☐ Politika bi mogla riješiti većinu problema
☒ Odvajanje politike od rješavanja većine problema

- ☒ Bolja suradnja između različitih sektora
☒ Bolja suradnja između lokalne i državne uprave
☒ Više financijskih resursa
☒ Tarife za vodu
☐ Drugo, imenovati :

Molimo navedite tri najznačajnija sudionika/ radnje za unaprijeđenje vodoopskrbe i upravljanje vodnim resursima:

VODOOPSKRBNI PODUZETCI
 DRŽAVNA UPRAVA
 Lokalna samouprava

Što može učiniti vaša institucija/ organizacija kao bi unaprijedila vodoopskrbu, upravljanje vodnim resursima te kako bi pridonijela njenoj održivosti?

POMOĆI ZARNOM O OPRAVLJANJU VODOOPSKRBNIM OBJEKTIMA

Mislite li da samo državna aktivnost pridonosi unapređenju vodoopskrbnog sustava:

☐ DA ☒ NE

Ukoliko je Vaš odgovor NE molimo navedite ostale institucije koje mogu unaprijediti vodoopskrbni sustav:

VODOOPSKRBNI PODUZETCI

Vaše poznavanje/ znanje s ulogom i aktivnostima bilateralnih komisija za regionalno prekogranično upravljanje vodoopskrbnim sustavima i upravljanje vodnim resursima:

☐ Sveobuhvatno ☐ Umjereno ☒ Slabo

Vaše poznavanje/ znanje s ulogom i aktivnostima lokalnih uprava za regionalno prekogranično upravljanje vodoopskrbnim sustavima:

☐ Sveobuhvatno ☐ Umjereno ☒ Slabo

Postoje li u vašoj zemlji zakonski okviri (sporazumi, ugovori, Memorandumi o razumijevanju i sl.) koji su značajni za regionalne prekogranične vodoopskrbne sustave i upravljanje vodenim resursima s kojima ste upoznati:

☒ Da ☐ NE

UGOVORI O ISPORUCI VODE IZMEĐU ISTOKSKE VODARSTVA (HR) I LONJSKOG VODARSTVA KOPER (SLO)

Ukoliko je Vaš odgovor DA, molimo navedite naslov.

Jeste li upoznati sa pitanjima/ poteškoćama u pogledu regionalnih prekograničnih upravljanja vodenim resursima:

☐ Sveobuhvatno ☐ Umjereno ☒ Slabo

Molimo komentirajte ukoliko želite:

<p>Razina provedbe Planova za upravljanje riječnim slivovima na nacionalnoj razini:</p> <p><input type="checkbox"/> Završen <input type="checkbox"/> U tijeku <input checked="" type="checkbox"/> Neodlučen</p> <p>Molimo komentirajte ukoliko želite:</p>
<p>Razina provedbe o Planovima upravljanja riječnim slivovima (prekogranični riječni slivovi):</p> <p><input type="checkbox"/> Završen <input type="checkbox"/> U tijeku <input checked="" type="checkbox"/> Neodlučen</p> <p>Molimo komentirajte ukoliko želite:</p>
<p>Koje su najvažnije teme s kojima biste se željeli upoznati vezano za regionalne prekogranične vodoopskrbne sustave te upravljanje vodenim resursima:</p> <p><i>ZASTUPNI VODNI RESURSI</i></p>
<p>Smatrate li korisnim ovaj tip radionica/ okruglih stolova:</p> <p><input checked="" type="checkbox"/> DA <input type="checkbox"/> NE <input type="checkbox"/> NE ZNAM</p>
<p>Dodatni komentari:</p>



Networking for Drinking Water Supply in Adriatic Region



UPITNIK O REGIONALNIM, PREKOGRANIČNIM VODOOPSKRBNIM SUSTAVIMA I UPRAVLJANJU VODENIM RESURSIMA

Kapitalizacija i održiva djelatnost (CS) su vrlo važne komponente projekta, koje će osigurati okvir za razmjenu relevantnih informacija značajnih za prekogranične, regionalne vodoopskrbne sisteme između diokija, uprave, istraživačkih institucija itd.

Vaše mišljenje i povratne informacije prikupljene tijekom nacionalnih radionica dati će vrijedne informacije i pridonijeti će uspješnoj provedbi projekta DRINK ADRIA.

Ime:	BOJANA
Prezime:	HASDOK CERNEHA
Institucija/ Organizacija: (Ukoliko želite ostati anonimni, molimo ne popunjavati)	IVS- Istarski Vodozemni Sustav d.o.o. BUZE
Vaša institucija/ misija organizacije/ glavni djelokrug rada:	
<input type="checkbox"/> Vodoopskrba <input type="checkbox"/> Uprava: <input checked="" type="checkbox"/> lokalna <input type="checkbox"/> regionalna <input type="checkbox"/> državna <input type="checkbox"/> Istraživačka organizacija <input type="checkbox"/> Udruga za vodu <input checked="" type="checkbox"/> Ostalo (molimo specificirati): OSVODNJA, ZASTITA VODA	
Vaše glavne aktivnosti fokusirane su na :	
<input type="checkbox"/> vodoopskrbu <input checked="" type="checkbox"/> vodozaštitu <input type="checkbox"/> obrazovanje/istraživanje <input type="checkbox"/> međunarodna suradnja <input type="checkbox"/> financije/zakonodavstvo <input type="checkbox"/> drugo, imenujte :	
Koja prostorna skala najbolje odražava vaše aktivnosti i zadatke? (Molimo koristite postotke na način da konačan zbroj bude 100% Primjer: lokalno -55%, državno -25%, drugo - 20%)	
lokalno 35% regionalno 55% državno 5% međunarodno 5% drugo, imenujte : _____, %	
Koji su glavni problemi upravljanja vodoopskrbom/ sadašnji problemi? (Molimo rangirajte: 1 najznačajnije , 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)	
<input checked="" type="checkbox"/> Gubici <input checked="" type="checkbox"/> Kvantiteta ili količina <input checked="" type="checkbox"/> Kvaliteta <input checked="" type="checkbox"/> Tarife za vodu <input checked="" type="checkbox"/> Zakonodavstvo i politički okviri <input checked="" type="checkbox"/> Nedostatak financijskih sredstava <input checked="" type="checkbox"/> Infrastruktura <input checked="" type="checkbox"/> Kapaciteti: <input checked="" type="checkbox"/> institucionalni <input checked="" type="checkbox"/> tehnički <input checked="" type="checkbox"/> ljudski <input checked="" type="checkbox"/> Klimatske promjene <input checked="" type="checkbox"/> Loša suradnja <input checked="" type="checkbox"/> Drugo, imenujte :	

Molimo rangirajte sljedeće u pogledu ranije spomenutih pitanja/problema::

(Molimo rangirajte: 1 najznačajnije , 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

GUBICI

- ☒ neovlaštena potrošnja ☒ pogreške u mjerenju ☒ propuštanje distribucijske mreže
☐ propuštanje distribucijske mreže
☐ drugo, molimo specificirajte ☒ propuštanje objekata vodoopskrbe

KOLIČINA ili KVANTITETA

- ☒ povećanje potrošnje vode ☒ sezonske oscilacije ☒ kapaciteti skladištenja vode
☒ promjene u korištenju zemljišta ☒ visoka potrošnja uzrokovana drugim sektorima (poljoprivreda, industrija i sl.) ☒ klimatske promjene ☐ drugo, molimo specificirajte

KVALITETA

- ☒ točkasti izvor zagađenja ☒ netočasti izvori zagađenja ☒ pitanja zaštite izvora
☒ promjene u praksi korištenja zemljišta ☒ sezonske oscilacije ☒ klimatske promjene
☐ drugo, molimo specificirajte

GLAVNI PROBLEMI VODOOPSKRBE DISTRIBUCIJE

- ☒ neadekvatna mreža ☒ kapaciteti crpnih stanica ☒ nedostatak rezervoara
☒ loše održavanje distribucijskih sustava vodoopskrbe ☒ dotrajalost
☐ drugo, molimo specificirajte

Koja su glavna vodoopskrbna upravljačka ograničenja u bližoj budućnosti (sljedećih 25-30 godina) ?

(Molimo rangirajte: 1 najznačajnije , 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

- ☒ Gubici ☒ Količina ☒ Kvaliteta ☒ Tarife za vodu
☒ Zakonodavstvo i politički okvir ☒ Nedostatak finansijskih sredstava ☒ Infrastruktura
☒ Kapaciteti: ☐ institucionalni ☐ tehnički ☐ ljudski
☒ Klimatske promjene ☒ Slaba suradnja ☐ Drugo, imenujte

Koji su najvažniji koraci i aktivnosti koje će unaprijediti vodoopskrbu u smislu navedenih pitanja i ograničenja?

ZASTITA VODA , INTEGRIRANO UPRAVLJANJE VODAMA

Mislite li da bi se neka prekogranična pitanja mogla riješiti sa:

(Molimo rangirajte: 1 najznačajnije , 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

- ☒ Politika bi mogla riješiti većinu problema
☒ Odvajanje politike od rješavanja većine problema

- ☒ Bolja suradnja između različitih sektora
☒ Bolja suradnja između lokalne i državne uprave
☒ Više financijskih resursa
☒ Tarife za vodu
☐ Drugo, imenovati :

Molimo navedite tri najznačajnija sudionika/ radnje za unaprijeđenje vodoopskrbe i upravljanje vodnim resursima:

VODOOPSKRBNJA AGENCIJA
 JLS
 EUROPIJA

Što može učiniti vaša institucija/ organizacija kao bi unaprijedila vodoopskrbu, upravljanje vodnim resursima te kako bi pridonijela njenoj održivosti?

DONJETI PROGRAM ZAŠTITE VODA
 REALIZIRATI PROJEKT ZAŠTITE VODA

Mislite li da samo državna aktivnost pridonosi unapređenju vodoopskrbnog sustava:

☐ DA ☒ NE

Ukoliko je Vaš odgovor NE molimo navedite ostale institucije koje mogu unaprijediti vodoopskrbni sustav:

GORE NAVEDENO

Vaše poznavanje/ znanje s ulogom i aktivnostima bilateralnih komisija za regionalno prekogranično upravljanje vodoopskrbnim sustavima i upravljanje vodnim resursima:

☐ Sveobuhvatno ☒ Umjereno ☐ Slabo

Vaše poznavanje/ znanje s ulogom i aktivnostima lokalnih uprava za regionalno prekogranično upravljanje vodoopskrbnim sustavima:

☐ Sveobuhvatno ☒ Umjereno ☐ Slabo

Postoje li u vašoj zemlji zakonski okviri (sporazumi, ugovori, Memorandumi o razumijevanju i sl.) koji su značajni za regionalne prekogranične vodoopskrbne sustave i upravljanje vodenim resursima s kojima ste upoznati:

☐ Da ☒ NE

Ukoliko je Vaš odgovor DA, molimo navedite naslov.

Jeste li upoznati sa pitanjima/ poteškoćama u pogledu regionalnih prekograničnih upravljanja vodenim resursima:

☐ Sveobuhvatno ☒ Umjereno ☐ Slabo

Molimo komentirajte ukoliko želite:

Razina provedbe Planova za upravljanje riječnim slivovima na nacionalnoj razini:

☐ Završen ☒ U tijeku ☐ Neodlučen

Molimo komentirajte ukoliko želite: *NEHAT INFORMACIJA*

Razina provedbe o Planovima upravljanja riječnim slivovima (prekogranični riječni slivovi):

☐ Završen ☒ U tijeku ☐ Neodlučen

Molimo komentirajte ukoliko želite: *NEHAT INFORMACIJA*

Koje su najvažnije teme s kojima biste se željeli upoznati vezano za regionalne prekogranične vodoopskrbne sustave te upravljanje vodenim resursima:

ZASTITA VODA U SLIVNIM PODRUČJIMA IZVORA

Smatrate li korisnim ovaj tip radionica/ okruglih stolova:

☒ DA ☐ NE ☐ NE ZNAM

Dodatni komentari:

UPITNIK O REGIONALNIM, PREKOGRANIČNIM VODOOPSKRBNIM SUSTAVIMA I UPRAVLJANJU VODENIM RESURSIMA

Kapitalizacija i održiva djelatnost (CS) su vrlo važne komponente projekta, koje će osigurati okvir za razmjenu relevantnih informacija značajnih za prekogranične, regionalne vodoopskrbne sisteme između diokija, uprave, istraživačkih institucija itd.

Vaše mišljenje i povratne informacije prikupljene tijekom nacionalnih radionica dati će vrijedne informacije i pridonijeti će uspješnoj provedbi projekta DRINK ADRIA.

Ime:	
Prezime:	
Institucija/ Organizacija: (Ukoliko želite ostati anonimni, molimo ne popunjavati)	

Vaša institucija/ misija organizacije/ glavni djelokrug rada:

☐ Vodoopskrba
 ☐ Uprava: ☐ lokalna ☐ regionalna ☐ državna
☒ Istraživačka organizacija ☐ Udruga za vodu ☐ Ostalo (molimo specificirati):

Vaše glavne aktivnosti fokusirane su na :

☐ vodoopskrbu ☐ vodozaštitu ☒ obrazovanje/istraživanje
☐ međunarodna suradnja ☐ financije/zakonodavstvo ☐ drugo, imenujte :

Koja prostorna skala najbolje odražava vaše aktivnosti i zadatke?
(Molimo koristite postotke na način da konačan zbroj bude 100%
Primjer: lokalno -55%, državno -25%, drugo - 20%)

lokalno 25% regionalno 25% državno 25% međunarodno 25% drugo, imenujte : _____, _%

Koji su glavni problemi upravljanja vodoopskrbom/ sadašnji problemi?
(Molimo rangirajte: 1 najznačajnije , 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

☐ Gubici ☒ Kvantiteta ili količina ☒ Kvaliteta ☒ Tarife za vodu
☒ Zakonodavstvo i politički okviri ☐ Nedostatak financijskih sredstava ☐ Infrastruktura
☒ Kapaciteti: ☐ institucionalni ☐ tehnički ☐ ljudski
☒ Klimatske promjene ☐ Loša suradnja ☐ Drugo, imenujte :

Molimo rangirajte sljedeće u pogledu ranije spomenutih pitanja/problema::

(Molimo rangirajte: 1 najznačajnije, 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

GUBICI

- ☒ 2 neovlaštena potrošnja ☒ 2 pogreške u mjerenju ☐ ~~propuštanje distribucijske mreže~~
☒ 1 propuštanje distribucijske mreže ☐ drugo, molimo specificirajte ☐ propuštanje objekata vodoopskrbe

KOLIČINA ili KVANTITETA

- ☒ 5 povećanje potrošnje vode ☒ 4 sezonske oscilacije ☒ 3 kapaciteti skladištenja vode
☒ 4 promjene u korištenju zemljišta ☐ visoka potrošnja uzrokovana drugim sektorima (poljoprivreda, industrija i sl.) ☐ klimatske promjene ☐ drugo, molimo specificirajte

KVALITETA

- ☒ 5 točkasti izvor zagađenja ☒ 3 netočasti izvori zagađenja ☒ 3 pitanja zaštite izvora
☒ 4 promjene u praksi korištenja zemljišta ☒ 4 sezonske oscilacije ☐ klimatske promjene
☐ drugo, molimo specificirajte

GLAVNI PROBLEMI VODOOPSKRBNE DISTRIBUCIJE

- ☐ neadekvatna mreža ☐ kapaciteti crpnih stanica ☒ nedostatak rezervoara
☒ 3 loše održavanje distribucijskih sustava vodoopskrbe ☒ 2 dotrajalost
☐ drugo, molimo specificirajte

Koja su glavna vodoopskrbna upravljačka ograničenja u bližoj budućnosti (sljedećih 25-30 godina) ?

(Molimo rangirajte: 1 najznačajnije, 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

- ☐ Gubici ☒ 4 Količina ☒ 4 Kvaliteta ☐ Tarife za vodu
☒ 2 Zakonodavstvo i politički okvir ☒ 3 Nedostatak finansijskih sredstava ☐ Infrastruktura
☒ 4 Kapaciteti: ☐ institucionalni ☐ tehnički ☐ ljudski
☒ 4 Klimatske promjene ☐ Slaba suradnja ☐ Drugo, imenujte

Koji su najvažniji koraci i aktivnosti koje će unaprijediti vodoopskrbu u smislu navedenih pitanja i ograničenja?

zaštita voda, održavanje kapaciteta skladištenja
vode, smanjenje utjecaja klimatskih promjena na resurse
ne potroše

Mislite li da bi se neka prekogranična pitanja mogla riješiti sa:

(Molimo rangirajte: 1 najznačajnije, 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

- ☐ Politika bi mogla riješiti većinu problema
☐ Odvajanje politike od rješavanja većine problema

<input checked="" type="checkbox"/> Bolja suradnja između različitih sektora <input checked="" type="checkbox"/> Bolja suradnja između lokalne i državne uprave <input type="checkbox"/> Više financijskih resursa <input type="checkbox"/> Tarife za vodu <input type="checkbox"/> Drugo, imenovati : <i>da politika vode nije stvarajuća</i>
<p>Molimo navedite tri najznačajnija sudionika/ radnje za unaprijeđenje vodoopskrbe i upravljanje vodnim resursima:</p>
<p>Što može učiniti vaša institucija/ organizacija kao bi unaprijedila vodoopskrbu, upravljanje vodnim resursima te kako bi pridonijela njenoj održivosti?</p> <p><i>provedba akcije i testiranje u okviru, bolje upravljanje s problemima i modeliranje mogućih rješenja</i></p>
<p>Mislite li da samo državna aktivnost pridonosi unapređenju vodoopskrbnog sustava:</p> <p><input type="checkbox"/> DA <input checked="" type="checkbox"/> NE</p> <p>Ukoliko je Vaš odgovor NE molimo navedite ostale institucije koje mogu unaprijediti vodoopskrbni sustav:</p> <p><i>lokalne i regionalne vlasti/uprave, komunalne društve</i></p>
<p>Vaše poznavanje/ znanje s ulogom i aktivnostima bilateralnih komisija za regionalno prekogranično upravljanje vodoopskrbnim sustavima i upravljanje vodnim resursima:</p> <p><input type="checkbox"/> Sveobuhvatno <input checked="" type="checkbox"/> Umjereno <input type="checkbox"/> Slabo</p>
<p>Vaše poznavanje/ znanje s ulogom i aktivnostima lokalnih uprava za regionalno prekogranično upravljanje vodoopskrbnim sustavima:</p> <p><input type="checkbox"/> Sveobuhvatno <input checked="" type="checkbox"/> Umjereno <input type="checkbox"/> Slabo</p>
<p>Postoje li u vašoj zemlji zakonski okviri (sporazumi, ugovori, Memorandumi o razumijevanju i sl.) koji su značajni za regionalne prekogranične vodoopskrbne sustave i upravljanje vodenim resursima s kojima ste upoznati:</p> <p><input checked="" type="checkbox"/> Da <input type="checkbox"/> NE</p> <p>Ukoliko je Vaš odgovor DA, molimo navedite naslov.</p> <p><i>Ugovor između vlade RH i vlade Srbije o uređivanju vodoopskrbnih odnosa, Ugovor između vlade RH i vlade Srbije o uređivanju vodoopskrbnih odnosa</i></p>
<p>Jeste li upoznati sa pitanjima/ poteškoćama u pogledu regionalnih prekograničnih upravljanja vodenim resursima:</p> <p><input checked="" type="checkbox"/> Sveobuhvatno <input type="checkbox"/> Umjereno <input type="checkbox"/> Slabo</p> <p>Molimo komentirajte ukoliko želite:</p>

Razina provedbe Planova za upravljanje riječnim slivovima na nacionalnoj razini:

☐ Završen ☒ U tijeku ☐ Neodlučen

Molimo komentirajte ukoliko želite:

Planovi su izrađeni i još se ne protežu od Hida. EU

Razina provedbe o Planovima upravljanja riječnim slivovima (prekogranični riječni slivovi):

☐ Završen ☐ U tijeku ☐ Neodlučen

Molimo komentirajte ukoliko želite:

Koje su najvažnije teme s kojima biste se željeli upoznati vezano za regionalne prekogranične vodoopskrbne sustave te upravljanje vodenim resursima:

Smatrate li korisnim ovaj tip radionica/ okruglih stolova:

☒ DA ☐ NE ☐ NE ZNAM

Dodatni komentari:

UPITNIK O REGIONALNIM, PREKOGRANIČNIM VODOOPSKRBNIM SUSTAVIMA I UPRAVLJANJU VODENIM RESURSIMA

Kapitalizacija i održiva djelatnost (CS) su vrlo važne komponente projekta, koje će osigurati okvir za razmjenu relevantnih informacija značajnih za prekogranične, regionalne vodoopskrbne sisteme između diokija, uprave, istraživačkih institucija itd.

Vaše mišljenje i povratne informacije prikupljene tijekom nacionalnih radionica dati će vrijedne informacije i pridonijeti će uspješnoj provedbi projekta DRINK ADRIA.

Ime: Prezime: Institucija/ Organizacija: (Ukoliko želite ostati anonimni, molimo ne popunjavati)	
Vaša institucija/ misija organizacije/ glavni djelokrug rada: <div style="display: flex; justify-content: space-between;"> <input type="checkbox"/> Vodoopskrba <input type="checkbox"/> Uprava: <input type="checkbox"/> lokalna <input checked="" type="checkbox"/> regionalna <input type="checkbox"/> državna </div> <div style="display: flex; justify-content: space-between;"> <input type="checkbox"/> Istraživačka organizacija <input type="checkbox"/> Udruga za vodu <input type="checkbox"/> Ostalo (molimo specificirati): </div>	
Vaše glavne aktivnosti fokusirane su na : <div style="display: flex; justify-content: space-between;"> <input type="checkbox"/> vodoopskrbu <input type="checkbox"/> vodozaštitu <input type="checkbox"/> obrazovanje/istraživanje </div> <div style="display: flex; justify-content: space-between;"> <input type="checkbox"/> međunarodna suradnja <input checked="" type="checkbox"/> financije/zakonodavstvo <input type="checkbox"/> drugo, imenujte : </div>	
Koja prostorna skala najbolje odražava vaše aktivnosti i zadatke? (Molimo koristite postotke na način da konačan zbroj bude 100% Primjer: lokalno -55%. državno -25%, drugo - 20%) lokalno <u>20</u> % regionalno <u>70</u> % državno <u>10</u> % međunarodno <u> </u> % drugo, imenujte : <u> </u> , <u> </u> %	
Koji su glavni problemi upravljanja vodoopskrbom/ sadašnji problemi? (Molimo rangirajte: 1 najznačajnije , 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema) <div style="display: flex; justify-content: space-between;"> <input checked="" type="checkbox"/> Gubici <input checked="" type="checkbox"/> Kvantiteta ili količina <input checked="" type="checkbox"/> Kvaliteta <input type="checkbox"/> Tarife za vodu </div> <div style="display: flex; justify-content: space-between;"> <input type="checkbox"/> Zakonodavstvo i politički okviri <input checked="" type="checkbox"/> Nedostatak finansijskih sredstava <input checked="" type="checkbox"/> Infrastruktura </div> <div style="display: flex; justify-content: space-between;"> <input type="checkbox"/> Kapaciteti: <input type="checkbox"/> institucionalni <input type="checkbox"/> tehnički <input type="checkbox"/> ljudski </div> <div style="display: flex; justify-content: space-between;"> <input type="checkbox"/> Klimatske promjene <input type="checkbox"/> Loša suradnja <input type="checkbox"/> Drugo, imenujte : </div>	

Molimo rangirajte sljedeće u pogledu ranije spomenutih pitanja/problema::
(Molimo rangirajte: 1 najznačajnije , 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

GUBICI

- ☐ neovlaštena potrošnja ☒ pogreške u mjerenju ☒ propuštanje distribucijske mreže
☐ propuštanje distribucijske mreže ☒ drugo, molimo specificirajte ☒ propuštanje objekata vodoopskrbe

KOLIČINA ili KVANTITETA

- ☐ povećanje potrošnje vode ☒ sezonske oscilacije ☒ kapaciteti skladištenja vode
☐ promjene u korištenju zemljišta i sl.) ☒ klimatske promjene ☐ visoka potrošnja uzrokovana drugim sektorima (poljoprivreda, industrija)
☐ drugo, molimo specificirajte

KVALITETA

- ☒ točkasti izvor zagađenja ☒ netočasti izvori zagađenja ☒ pitanja zaštite izvora
☐ promjene u praksi korištenja zemljišta ☐ sezonske oscilacije ☒ klimatske promjene
☐ drugo, molimo specificirajte

GLAVNI PROBLEMI VODOOPSKRBE DISTRIBUCIJE

- ☒ neadekvatna mreža ☐ kapaciteti crpnih stanica ☒ nedostatak rezervoara
☒ loše održavanje distribucijskih sustava vodoopskrbe ☒ dotrajalost
☐ drugo, molimo specificirajte

Koja su glavna vodoopskrbna upravljačka ograničenja u bližoj budućnosti (slijedećih 25-30 godina) ?
(Molimo rangirajte: 1 najznačajnije , 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

- ☐ Gubici ☐ Količina ☐ Kvaliteta ☒ Tarife za vodu
☐ Zakonodavstvo i politički okvir ☒ Nedostatak financijskih sredstava ☐ Infrastruktura
☐ Kapaciteti: ☐ institucionalni ☐ tehnički ☐ ljudski
☒ Klimatske promjene ☒ Slaba suradnja ☐ Drugo, imenujte

Koji su najvažniji koraci i aktivnosti koje će unaprijediti vodoopskrbu u smislu navedenih pitanja i ograničenja?

IZGRADNJA NEDOSTAJUĆE INFRASTRUKTURE, REKONSTRUKCIJE
ODRŽAVANJE

Mislite li da bi se neka prekogranična pitanja mogla riješiti sa:

(Molimo rangirajte: 1 najznačajnije , 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

- ☐ Politika bi mogla riješiti većinu problema
☒ Odvajanje politike od rješavanja većine problema

<input checked="" type="checkbox"/> Bolja suradnja između različitih sektora <input checked="" type="checkbox"/> Bolja suradnja između lokalne i državne uprave <input checked="" type="checkbox"/> Više financijskih resursa <input type="checkbox"/> Tarife za vodu <input type="checkbox"/> Drugo, imenovati :
Molimo navedite tri najznačajnija sudionika/ radnje za unaprijeđenje vodoopskrbe i upravljanje vodnim resursima: KOMUNALNA PRUŽIVA HRVATSKE VODE JEDINICE LOKALNE I REGIONALNE SAMOUPRAVE
Što može učiniti vaša institucija/ organizacija kao bi unaprijedila vodoopskrbu, upravljanje vodnim resursima te kako bi pridonijela njenoj održivosti? TREĆETNO, PO VAŽEĆOJ REGULATIVI, USUAGANJE PROSTORNO- PLANSKE DOKUMENTACIJE I SUFINANCIRANJE KAPITALNIH PROJEKATA INFRASTRUKTURE
Mislite li da samo državna aktivnost pridonosi unapređenju vodoopskrbnog sustava: <input type="checkbox"/> DA <input checked="" type="checkbox"/> NE Ukoliko je Vaš odgovor NE molimo navedite ostale institucije koje mogu unaprijediti vodoopskrbni sustav: JEDINICE REGIONALNE I LOKALNE SAMOUPRAVE
Vaše poznavanje/ znanje s ulogom i aktivnostima bilateralnih komisija za regionalno prekogranično upravljanje vodoopskrbnim sustavima i upravljanje vodnim resursima: <input type="checkbox"/> Sveobuhvatno <input type="checkbox"/> Umjereno <input checked="" type="checkbox"/> Slabo
Vaše poznavanje/ znanje s ulogom i aktivnostima lokalnih uprava za regionalno prekogranično upravljanje vodoopskrbnim sustavima: <input type="checkbox"/> Sveobuhvatno <input type="checkbox"/> Umjereno <input checked="" type="checkbox"/> Slabo
Postoje li u vašoj zemlji zakonski okviri (sporazumi, ugovori, Memorandumi o razumijevanju i sl.) koji su značajni za regionalne prekogranične vodoopskrbne sustave i upravljanje vodenim resursima s kojima ste upoznati: <input type="checkbox"/> Da <input checked="" type="checkbox"/> NE Ukoliko je Vaš odgovor DA, molimo navedite naslov.
Jeste li upoznati sa pitanjima/ poteškoćama u pogledu regionalnih prekograničnih upravljanja vodenim resursima: <input type="checkbox"/> Sveobuhvatno <input type="checkbox"/> Umjereno <input checked="" type="checkbox"/> Slabo Molimo komentirajte ukoliko želite:

Razina provedbe Planova za upravljanje riječnim slivovima na nacionalnoj razini:

☐ Završen ☐ U tijeku ☒ Neodlučen

Molimo komentirajte ukoliko želite:

Razina provedbe o Planovima upravljanja riječnim slivovima (prekogranični riječni slivovi):

☐ Završen ☐ U tijeku ☒ Neodlučen

Molimo komentirajte ukoliko želite:

Koje su najvažnije teme s kojima biste se željeli upoznati vezano za regionalne prekogranične vodoopskrbne sustave te upravljanje vodenim resursima:

ZAKONODAVNE I FINANCISKE MOGUĆNOSTI SURADNJE

Smatrate li korisnim ovaj tip radionica/ okruglih stolova:

☒ DA ☐ NE ☐ NE ZNAM

Dodatni komentari:

UPITNIK O REGIONALNIM, PREKOGRANIČNIM VODOOPSKRBNIM SUSTAVIMA I UPRAVLJANJU VODENIM RESURSIMA

Kapitalizacija i održiva djelatnost (CS) su vrlo važne komponente projekta, koje će osigurati okvir za razmjenu relevantnih informacija značajnih za prekogranične, regionalne vodoopskrbne sisteme između diokija, uprave, istraživačkih institucija itd.

Vaše mišljenje i povratne informacije prikupljene tijekom nacionalnih radionica dati će vrijedne informacije i pridonijeti će uspješnoj provedbi projekta DRINK ADRIA.

Ime:	Bruno
Prezime:	Kostelić
Institucija/ Organizacija: (Ukoliko želite ostati anonimni, molimo ne popunjavati)	
Vaša institucija/ misija organizacije/ glavni djelokrug rada:	
<input type="checkbox"/> Vodoopskrba <input checked="" type="checkbox"/> Uprava: <input type="checkbox"/> lokalna <input checked="" type="checkbox"/> regionalna <input type="checkbox"/> državna <input type="checkbox"/> Istraživačka organizacija <input type="checkbox"/> Udruga za vodu <input type="checkbox"/> Ostalo (molimo specificirati):	
Vaše glavne aktivnosti fokusirane su na :	
<input type="checkbox"/> vodoopskrbu <input type="checkbox"/> vodozaštitu <input type="checkbox"/> obrazovanje/istraživanje <input checked="" type="checkbox"/> međunarodna suradnja <input type="checkbox"/> financije/zakonodavstvo <input type="checkbox"/> drugo, imenujte : zaštita prirode i okoliša	
Koja prostorna skala najbolje odražava vaše aktivnosti i zadatke? (Molimo koristite postotke na način da konačan zbroj bude 100% Primjer: lokalno -55%, državno -25%, drugo - 20%)	
lokalno 25% regionalno 50% državno _% međunarodno 25% drugo, imenujte : ____, _%	
Koji su glavni problemi upravljanja vodoopskrbom/ sadašnji problemi? (Molimo rangirajte: 1 najznačajnije , 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)	
<input checked="" type="checkbox"/> Gubici <input checked="" type="checkbox"/> Kvantiteta ili količina <input type="checkbox"/> Kvaliteta <input type="checkbox"/> Tarife za vodu <input checked="" type="checkbox"/> Zakonodavstvo i politički okviri <input checked="" type="checkbox"/> Nedostatak financijskih sredstava <input checked="" type="checkbox"/> Infrastruktura <input checked="" type="checkbox"/> Kapaciteti: <input type="checkbox"/> institucionalni <input type="checkbox"/> tehnički <input type="checkbox"/> ljudski <input checked="" type="checkbox"/> Klimatske promjene <input type="checkbox"/> Loša suradnja <input type="checkbox"/> Drugo, imenujte :	

Molimo rangirajte sljedeće u pogledu ranije spomenutih pitanja/problema::

(Molimo rangirajte: 1 najznačajnije, 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

GUBICI

- ☒ 1 neovlaštena potrošnja ☒ 2 pogreške u mjerenju ☐ ~~propuštanje distribucijske mreže~~
☒ 2 propuštanje distribucijske mreže ☒ 2 propuštanje objekata vodoopskrbe
☐ drugo, molimo specificirajte

KOLIČINA ili KVANTITETA

- ☒ 4 povećanje potrošnje vode ☒ 4 sezonske oscilacije ☒ 5 kapaciteti skladištenja vode
☒ 3 promjene u korištenju zemljišta i sl.) ☐ visoka potrošnja uzrokovana drugim sektorima (poljoprivreda, industrija)
☒ 2 klimatske promjene ☐ drugo, molimo specificirajte

KVALITETA

- ☒ 4 točkasti izvor zagađenja ☒ 5 netočasti izvori zagađenja ☒ 4 pitanja zaštite izvora
☐ promjene u praksi korištenja zemljišta ☒ 3 sezonske oscilacije ☒ 2 klimatske promjene
☐ drugo, molimo specificirajte

GLAVNI PROBLEMI VODOOPSKRBE DISTRIBUCIJE

- ☒ 4 neadekvatna mreža ☐ kapaciteti crpnih stanica ☐ nedostatak rezervoara
☒ 3 loše održavanje distribucijskih sustava vodoopskrbe ☒ 1 dotrajalost
☐ drugo, molimo specificirajte

Koja su glavna vodoopskrbna upravljačka ograničenja u bližoj budućnosti (slijedećih 25-30 godina) ?

(Molimo rangirajte: 1 najznačajnije, 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

- ☒ 3 Gubici ☒ 4 Količina ☒ 2 Kvaliteta ☐ Tarife za vodu
☐ Zakonodavstvo i politički okvir ☒ 2 Nedostatak finansijskih sredstava ☐ Infrastruktura
☐ Kapaciteti: ☐ institucionalni ☐ tehnički ☐ ljudski
☒ 1 Klimatske promjene ☐ Slaba suradnja ☐ Drugo, imenujte

Koji su najvažniji koraci i aktivnosti koje će unaprijediti vodoopskrbu u smislu navedenih pitanja i ograničenja?

Uspostava primjeren i aktivan zaštite kroz strateške i planске dokumente, ali i implementaciju EU Direktive i razvojem zakonodavstva.

Mislite li da bi se neka prekogranična pitanja mogla riješiti sa:

(Molimo rangirajte: 1 najznačajnije, 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

- ☒ 1 Politika bi mogla riješiti većinu problema
☐ Odvajanje politike od rješavanja većine problema

<input checked="" type="checkbox"/> Bolja suradnja između različitih sektora <input checked="" type="checkbox"/> Bolja suradnja između lokalne i državne uprave <input checked="" type="checkbox"/> Više financijskih resursa <input checked="" type="checkbox"/> Tarife za vodu <input type="checkbox"/> Drugo, imenovati :
Molimo navedite tri najznačajnija sudionika/ radnje za unaprijeđenje vodoopskrbe i upravljanje vodnim resursima: 1) <i>Vodovodništvo</i> 2) <i>Vodoopskrba</i> } <i>promicanje potrebnih fin. sredstava, zakonski okvir</i>
Što može učiniti vaša institucija/ organizacija kao bi unaprijedila vodoopskrbu, upravljanje vodnim resursima te kako bi pridonijela njenoj održivosti? <i>Promicanje u uspostavi adekvatnih programa procjene</i>
Mislite li da samo državna aktivnost pridonosi unapređenju vodoopskrbnog sustava: <input type="checkbox"/> DA <input checked="" type="checkbox"/> NE Ukoliko je Vaš odgovor NE molimo navedite ostale institucije koje mogu unaprijediti vodoopskrbni sustav: <i>Troškovi pružanja usluga imaju značajan utjecaj: odgovornost u upravljanju vodoopskrbom</i>
Vaše poznavanje/ znanje s ulogom i aktivnostima bilateralnih komisija za regionalno prekogranično upravljanje vodoopskrbnim sustavima i upravljanje vodnim resursima: <input type="checkbox"/> Sveobuhvatno <input type="checkbox"/> Umjereno <input checked="" type="checkbox"/> Slabo
Vaše poznavanje/ znanje s ulogom i aktivnostima lokalnih uprava za regionalno prekogranično upravljanje vodoopskrbnim sustavima: <input type="checkbox"/> Sveobuhvatno <input checked="" type="checkbox"/> Umjereno <input type="checkbox"/> Slabo
Postoje li u vašoj zemlji zakonski okviri (sporazumi, ugovori, Memorandumi o razumijevanju i sl.) koji su značajni za regionalne prekogranične vodoopskrbne sustave i upravljanje vodenim resursima s kojima ste upoznati: <input checked="" type="checkbox"/> Da <input type="checkbox"/> NE Ukoliko je Vaš odgovor DA, molimo navedite naslov.
Jeste li upoznati sa pitanjima/ poteškoćama u pogledu regionalnih prekograničnih upravljanja vodenim resursima: <input type="checkbox"/> Sveobuhvatno <input checked="" type="checkbox"/> Umjereno <input type="checkbox"/> Slabo Molimo komentirati ako želite:

Razina provedbe Planova za upravljanje riječnim slivovima na nacionalnoj razini:

☐ Završen ☒ U tijeku ☐ Neodlučen

Molimo komentirati ukoliko želite:

Novakke role

Razina provedbe o Planovima upravljanja riječnim slivovima (prekogranični riječni slivovi):

☐ Završen ☒ U tijeku ☐ Neodlučen

Molimo komentirati ukoliko želite:

Regulirano Ugovorima ?!

Koje su najvažnije teme s kojima biste se željeli upoznati vezano za regionalne prekogranične vodoopskrbne sustave te upravljanje vodenim resursima:

Red na prekograničnim protokolima

Smatrate li korisnim ovaj tip radionica/ okruglih stolova:

☒ DA ☐ NE ☐ NE ZNAM

Dodatni komentari:

UPITNIK O REGIONALNIM, PREKOGRANIČNIM VODOOPSKRBNIM SUSTAVIMA I UPRAVLJANJU VODENIM RESURSIMA

Kapitalizacija i održiva djelatnost (CS) su vrlo važne komponente projekta, koje će osigurati okvir za razmjenu relevantnih informacija značajnih za prekogranične, regionalne vodoopskrbne sisteme između diokija, uprave, istraživačkih institucija itd.

Vaše mišljenje i povratne informacije prikupljene tijekom nacionalnih radionica dati će vrijedne informacije i pridonijeti će uspješnoj provedbi projekta DRINK ADRIA.

Ime:	SAJA
Prezime:	ZIVKONIC
Institucija/ Organizacija: (Ukoliko želite ostati anonimni, molimo ne popunjavati)	NASTAVNI ZAVOD ZA JAVNO ZORAVANJE PAZ

Vaša institucija/ misija organizacije/ glavni djelokrug rada:

☐ Vodoopskrba
 ☐ Uprava: ☐ lokalna ☒ regionalna ☐ državna
☐ Istraživačka organizacija ☐ Udruga za vodu ☒ Ostalo (molimo specificirati):

Vaše glavne aktivnosti fokusirane su na :

☐ vodoopskrbu ☒ vodozaštitu ☐ obrazovanje/istraživanje
☐ međunarodna suradnja ☐ financije/zakonodavstvo ☒ drugo, imenujte :

Koja prostorna skala najbolje odražava vaše aktivnosti i zadatke?
(Molimo koristite postotke na način da konačan zbroj bude 100%
Primjer: lokalno -55%, državno -25%, drugo - 20%)

lokalno 20 % regionalno 60 % državno 20 % međunarodno % drugo, imenujte : , %

Koji su glavni problemi upravljanja vodoopskrbom/ sadašnji problemi?
(Molimo rangirajte: 1 najznačajnije , 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

☒ Gubici ☒ Kvantiteta ili količina ☒ Kvaliteta ☒ Tarife za vodu
☒ Zakonodavstvo i politički okviri ☒ Nedostatak financijskih sredstava ☒ Infrastruktura
☒ Kapaciteti: ☐ institucionalni ☐ tehnički ☐ ljudski
☒ Klimatske promjene ☒ Loša suradnja ☐ Drugo, imenujte :

Molimo rangirajte sljedeće u pogledu ranije spomenutih pitanja/problema::

(Molimo rangirajte: 1 najznačajnije, 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

GUBICI

- ☒ 1 neovlaštena potrošnja ☒ 2 pogreške u mjerenju ☐ propuštanje distribucijske mreže
☒ propuštanje distribucijske mreže ☒ 2 propuštanje objekata vodoopskrbe
☐ drugo, molimo specificirajte

KOLIČINA ili KVANTITETA

- ☒ 4 povećanje potrošnje vode ☒ 4 sezonske oscilacije ☒ 4 kapaciteti skladištenja vode
☒ 4 promjene u korištenju zemljišta ☒ 4 visoka potrošnja uzrokovana drugim sektorima (poljoprivreda, industrija i sl.) ☐ drugo, molimo specificirajte
☒ 4 klimatske promjene

KVALITETA

- ☒ 4 točkasti izvor zagađenja ☒ 2 netočasti izvori zagađenja ☒ 4 pitanja zaštite izvora
☒ 4 promjene u praksi korištenja zemljišta ☒ 2 sezonske oscilacije ☒ 4 klimatske promjene
☐ drugo, molimo specificirajte

GLAVNI PROBLEMI VODOOPSKRBNJE DISTRIBUCIJE

- ☒ 4 neadekvatna mreža ☒ 4 kapaciteti crpnih stanica ☒ 4 nedostatak rezervoara
☒ 4 loše održavanje distribucijskih sustava vodoopskrbe ☒ 4 dotrajalost
☐ drugo, molimo specificirajte

Koja su glavna vodoopskrbna upravljačka ograničenja u bližoj budućnosti (sljedećih 25-30 godina) ?

(Molimo rangirajte: 1 najznačajnije, 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

- ☒ 2 Gubici ☒ 4 Količina ☒ 4 Kvaliteta ☒ 4 Tarife za vodu
☒ 4 Zakonodavstvo i politički okvir ☒ 2 Nedostatak finansijskih sredstava ☒ 4 Infrastruktura
☒ 4 Kapaciteti: ☐ institucionalni ☐ tehnički ☐ ljudski
☒ 4 Klimatske promjene ☐ Slaba suradnja ☐ Drugo, imenujte

Koji su najvažniji koraci i aktivnosti koje će unaprijediti vodoopskrbu u smislu navedenih pitanja i ograničenja?

zaštita izvora i financiranje

Mislite li da bi se neka prekogranična pitanja mogla riješiti sa:

(Molimo rangirajte: 1 najznačajnije, 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

- ☒ 4 Politika bi mogla riješiti većinu problema
☒ 4 Odvajanje politike od rješavanja većine problema

<input checked="" type="checkbox"/> Bolja suradnja između različitih sektora <input checked="" type="checkbox"/> Bolja suradnja između lokalne i državne uprave <input checked="" type="checkbox"/> Više financijskih resursa <input checked="" type="checkbox"/> Tarife za vodu <input type="checkbox"/> Drugo, imenovati :
Molimo navedite tri najznačajnija sudionika/ radnje za unaprijeđenje vodoopskrbe i upravljanje vodnim resursima: <i>zastita izvorišta, monitoring</i>
Što može učiniti vaša institucija/ organizacija kao bi unaprijedila vodoopskrbu, upravljanje vodnim resursima te kako bi pridonijela njenoj održivosti? <i>pracenje kvalitete vode, davanje mišljenja, izrada izveštaja</i>
Mislite li da samo državna aktivnost pridonosi unapređenju vodoopskrbnog sustava: <input checked="" type="checkbox"/> DA <input type="checkbox"/> NE Ukoliko je Vaš odgovor NE molimo navedite ostale institucije koje mogu unaprijediti vodoopskrbni sustav:
Vaše poznavanje/ znanje s ulogom i aktivnostima bilateralnih komisija za regionalno prekogranično upravljanje vodoopskrbnim sustavima i upravljanje vodnim resursima: <input type="checkbox"/> Sveobuhvatno <input checked="" type="checkbox"/> Umjereno <input type="checkbox"/> Slabo
Vaše poznavanje/ znanje s ulogom i aktivnostima lokalnih uprava za regionalno prekogranično upravljanje vodoopskrbnim sustavima: <input type="checkbox"/> Sveobuhvatno <input checked="" type="checkbox"/> Umjereno <input type="checkbox"/> Slabo
Postoje li u vašoj zemlji zakonski okviri (sporazumi, ugovori, Memorandumi o razumijevanju i sl.) koji su značajni za regionalne prekogranične vodoopskrbne sustave i upravljanje vodenim resursima s kojima ste upoznati: <input type="checkbox"/> Da <input checked="" type="checkbox"/> NE Ukoliko je Vaš odgovor DA, molimo navedite naslov.
Jeste li upoznati sa pitanjima/ poteškoćama u pogledu regionalnih prekograničnih upravljanja vodenim resursima: <input type="checkbox"/> Sveobuhvatno <input checked="" type="checkbox"/> Umjereno <input type="checkbox"/> Slabo Molimo komentirati ukoliko želite:

Razina provedbe Planova za upravljanje riječnim slivovima na nacionalnoj razini:

☐ Završen ☐ U tijeku ☒ Neodlučen

Molimo komentirajte ukoliko želite:

Razina provedbe o Planovima upravljanja riječnim slivovima (prekogranični riječni slivovi):

☐ Završen ☐ U tijeku ☒ Neodlučen

Molimo komentirajte ukoliko želite:

Koje su najvažnije teme s kojima biste se željeli upoznati vezano za regionalne prekogranične vodoopskrbne sustave te upravljanje vodenim resursima:

Smatrate li korisnim ovaj tip radionica/ okruglih stolova:

☒ DA ☐ NE ☐ NE ZNAM

Dodatni komentari:

UPITNIK O REGIONALNIM, PREKOGRANIČNIM VODOOPSKRBNIM SUSTAVIMA I UPRAVLJANJU VODENIM RESURSIMA

Kapitalizacija i održiva djelatnost (CS) su vrlo važne komponente projekta, koje će osigurati okvir za razmjenu relevantnih informacija značajnih za prekogranične, regionalne vodoopskrbne sisteme između diokija, uprave, istraživačkih institucija itd.

Vaše mišljenje i povratne informacije prikupljene tijekom nacionalnih radionica dati će vrijedne informacije i pridonijeti će uspješnoj provedbi projekta DRINK ADRIA.

Ime:	SMIČAN
Prezime:	SARIC
Institucija/ Organizacija: (Ukoliko želite ostati anonimni, molimo ne popunjavati)	NASTAVNI SAVOD ZA JAVNO ZDRAVLJE TGŽ HČUA

Vaša institucija/ misija organizacije/ glavni djelokrug rada:

☐ Vodoopskrba
 ☐ Uprava: ☐ lokalna ☒ regionalna ☐ državna
☐ Istraživačka organizacija ☐ Udruga za vodu ☒ Ostalo (molimo specificirati):

Vaše glavne aktivnosti fokusirane su na :

☐ vodoopskrbu ☒ vodozaštitu ☐ obrazovanje/istraživanje
☐ međunarodna suradnja ☐ financije/zakonodavstvo ☒ drugo, imenujte :

Koja prostorna skala najbolje odražava vaše aktivnosti i zadatke?
(Molimo koristite postotke na način da konačan zbroj bude 100%
Primjer: lokalno -55%, državno -25%, drugo - 20%)

lokalno 12% regionalno 60% državno 20% međunarodno % drugo, imenujte : _____, %

Koji su glavni problemi upravljanja vodoopskrbom/ sadašnji problemi?
(Molimo rangirajte: 1 najznačajnije , 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

☒ Gubici ☒ Kvantiteta ili količina ☒ Kvaliteta ☒ Tarife za vodu
☒ Zakonodavstvo i politički okviri ☒ Nedostatak financijskih sredstava ☒ Infrastruktura
☒ Kapaciteti: ☐ institucionalni ☐ tehnički ☐ ljudski
☒ Klimatske promjene ☐ Loša suradnja ☐ Drugo, imenujte :

Molimo rangirajte sljedeće u pogledu ranije spomenutih pitanja/problema::

(Molimo rangirajte: 1 najznačajnije , 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

GUBICI

- ☒ 3 neovlaštena potrošnja ☒ 5 pogreške u mjerenju ☒ 4 propuštanje distribucijske mreže
☒ 4 propuštanje distribucijske mreže ☒ 4 propuštanje objekata vodoopskrbe
☐ drugo, molimo specificirajte

KOLIČINA ili KVANTITETA

- ☒ 4 povećanje potrošnje vode ☒ 4 sezonske oscilacije ☒ 4 kapaciteti skladištenja vode
☒ 5 promjene u korištenju zemljišta i sl.) ☒ 4 visoka potrošnja uzrokovana drugim sektorima (poljoprivreda, industrija)
☐ klimatske promjene ☐ drugo, molimo specificirajte

KVALITETA

- ☒ 4 točkasti izvor zagađenja ☒ 3 netočasti izvori zagađenja ☒ 4 pitanja zaštite izvora
☒ 5 promjene u praksi korištenja zemljišta ☒ 4 sezonske oscilacije ☒ 4 klimatske promjene
☐ drugo, molimo specificirajte

GLAVNI PROBLEMI VODOOPSKRBE DISTRIBUCIJE

- ☒ 5 neadekvatna mreža ☒ 4 kapaciteti crpnih stanica ☒ 3 nedostatak rezervoara
☒ 4 loše održavanje distribucijskih sustava vodoopskrbe ☒ 4 dotrajalost
☐ drugo, molimo specificirajte

Koja su glavna vodoopskrbna upravljačka ograničenja u bližoj budućnosti (sljedećih 25-30 godina) ?

(Molimo rangirajte: 1 najznačajnije , 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

- ☒ 5 Gubici ☒ 4 Količina ☒ 2 Kvaliteta ☒ 4 Tarife za vodu
☒ 5 Zakonodavstvo i politički okvir ☒ 4 Nedostatak finansijskih sredstava ☒ 4 Infrastruktura
☒ 4 Kapaciteti: ☐ institucionalni ☐ tehnički ☐ ljudski
☒ 4 Klimatske promjene ☐ Slaba suradnja ☐ Drugo, imenujte

Koji su najvažniji koraci i aktivnosti koje će unaprijediti vodoopskrbu u smislu navedenih pitanja i ograničenja?

zaštita izvora i održavanje

Mislite li da bi se neka prekogranična pitanja mogla riješiti sa:

(Molimo rangirajte: 1 najznačajnije , 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

- ☒ 5 Politika bi mogla riješiti većinu problema
☒ 4 Odvajanje politike od rješavanja većine problema

<input checked="" type="checkbox"/> Bolja suradnja između različitih sektora <input checked="" type="checkbox"/> Bolja suradnja između lokalne i državne uprave <input checked="" type="checkbox"/> Više financijskih resursa <input checked="" type="checkbox"/> Tarife za vodu <input type="checkbox"/> Drugo, imenovati :
Molimo navedite tri najznačajnija sudionika/ radnje za unaprijeđenje vodoopskrbe i upravljanje vodnim resursima: <i>kontrola, kvaliteta, vodostaja</i>
Što može učiniti vaša institucija/ organizacija kao bi unaprijedila vodoopskrbu, upravljanje vodnim resursima te kako bi pridonijela njenoj održivosti? <i>kontrolu i kvaliteta, održivost</i>
Mislite li da samo državna aktivnost pridonosi unapređenju vodoopskrbnog sustava: <input checked="" type="checkbox"/> DA <input type="checkbox"/> NE Ukoliko je Vaš odgovor NE molimo navedite ostale institucije koje mogu unaprijediti vodoopskrbni sustav:
Vaše poznavanje/ znanje s ulogom i aktivnostima bilateralnih komisija za regionalno prekogranično upravljanje vodoopskrbnim sustavima i upravljanje vodnim resursima: <input type="checkbox"/> Sveobuhvatno <input type="checkbox"/> Umjereno <input checked="" type="checkbox"/> Slabo
Vaše poznavanje/ znanje s ulogom i aktivnostima lokalnih uprava za regionalno prekogranično upravljanje vodoopskrbnim sustavima: <input type="checkbox"/> Sveobuhvatno <input checked="" type="checkbox"/> Umjereno <input type="checkbox"/> Slabo
Postoje li u vašoj zemlji zakonski okviri (sporazumi, ugovori, Memorandumi o razumijevanju i sl.) koji su značajni za regionalne prekogranične vodoopskrbne sustave i upravljanje vodenim resursima s kojima ste upoznati: <input type="checkbox"/> Da <input checked="" type="checkbox"/> NE Ukoliko je Vaš odgovor DA, molimo navedite naslov.
Jeste li upoznati sa pitanjima/ poteškoćama u pogledu regionalnih prekograničnih upravljanja vodenim resursima: <input type="checkbox"/> Sveobuhvatno <input type="checkbox"/> Umjereno <input checked="" type="checkbox"/> Slabo Molimo komentirajte ukoliko želite:

Razina provedbe Planova za upravljanje riječnim slivovima na nacionalnoj razini:

☐ Završen ☐ U tijeku ☒ Neodlučen

Molimo komentirajte ukoliko želite:

Razina provedbe o Planovima upravljanja riječnim slivovima (prekogranični riječni slivovi):

☐ Završen ☐ U tijeku ☒ Neodlučen

Molimo komentirajte ukoliko želite:

Koje su najvažnije teme s kojima biste se željeli upoznati vezano za regionalne prekogranične vodoopskrbne sustave te upravljanje vodenim resursima:

Smatrate li korisnim ovaj tip radionica/ okruglih stolova:

☒ DA ☐ NE ☐ NE ZNAM

Dodatni komentari:

UPITNIK O REGIONALNIM, PREKOGRANIČNIM VODOOPSKRBNIM SUSTAVIMA I UPRAVLJANJU VODENIM RESURSIMA

Kapitalizacija i održiva djelatnost (CS) su vrlo važne komponente projekta, koje će osigurati okvir za razmjenu relevantnih informacija značajnih za prekogranične, regionalne vodoopskrbne sisteme između diokija, uprave, istraživačkih institucija itd.

Vaše mišljenje i povratne informacije prikupljene tijekom nacionalnih radionica dati će vrijedne informacije i pridonijeti će uspješnoj provedbi projekta DRINK ADRIA.

Ime:	<i>Hilary</i>
Prezime:	<i>Harrell</i>
Institucija/ Organizacija: (Ukoliko želite ostati anonimni, molimo ne popunjavati)	<i>Banka za vodu, uo os održivi razvoj</i>
Vaša institucija/ misija organizacije/ glavni djelokrug rada:	
<input type="checkbox"/> Vodoopskrba <input checked="" type="checkbox"/> Uprava: <input type="checkbox"/> lokalna <input checked="" type="checkbox"/> regionalna <input type="checkbox"/> državna <input type="checkbox"/> Istraživačka organizacija <input type="checkbox"/> Udruga za vodu <input type="checkbox"/> Ostalo (molimo specificirati):	
Vaše glavne aktivnosti fokusirane su na :	
<input type="checkbox"/> vodoopskrbu <input checked="" type="checkbox"/> vodozaštitu <input type="checkbox"/> obrazovanje/istraživanje <input type="checkbox"/> međunarodna suradnja <input type="checkbox"/> financije/zakonodavstvo <input type="checkbox"/> drugo, imenujte :	
Koja prostorna skala najbolje odražava vaše aktivnosti i zadatke? (Molimo koristite postotke na način da konačan zbroj bude 100% Primjer: lokalno -55%, državno -25%, drugo - 20%)	
lokalno <u> </u> % regionalno <u>100</u> % državno <u> </u> % međunarodno <u> </u> % drugo, imenujte : <u> </u> , <u> </u> %	
Koji su glavni problemi upravljanja vodoopskrbom/ sadašnji problemi? (Molimo rangirajte: 1 najznačajnije , 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)	
<input type="checkbox"/> Gubici <input checked="" type="checkbox"/> Kvantiteta ili količina <input checked="" type="checkbox"/> Kvaliteta <input type="checkbox"/> Tarife za vodu <input type="checkbox"/> Zakonodavstvo i politički okviri <input checked="" type="checkbox"/> Nedostatak financijskih sredstava <input type="checkbox"/> Infrastruktura <input type="checkbox"/> Kapaciteti: <input type="checkbox"/> institucionalni <input type="checkbox"/> tehnički <input type="checkbox"/> ljudski <input type="checkbox"/> Klimatske promjene <input type="checkbox"/> Loša suradnja <input type="checkbox"/> Drugo, imenujte :	

Molimo rangirajte sljedeće u pogledu ranije spomenutih pitanja/problema::

(Molimo rangirajte: 1 najznačajnije , 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

GUBICI

- ☒ neovlaštena potrošnja ☐ pogreške u mjerenju ☐ propuštanje distribucijske mreže
☒ propuštanje distribucijske mreže
☐ drugo, molimo specificirajte ☐ propuštanje objekata vodoopskrbe

KOLIČINA ili KVANTITETA

- ☐ povećanje potrošnje vode ☒ sezonske oscilacije ☐ kapaciteti skladištenja vode
☐ promjene u korištenju zemljišta i sl.) ☒ visoka potrošnja uzrokovana drugim sektorima (poljoprivreda, industrija)
☒ klimatske promjene ☐ drugo, molimo specificirajte

KVALITETA

- ☐ točkasti izvor zagađenja ☒ netočasti izvori zagađenja ☒ pitanja zaštite izvora
☐ promjene u praksi korištenja zemljišta ☒ sezonske oscilacije ☐ klimatske promjene
☐ drugo, molimo specificirajte

GLAVNI PROBLEMI VODOOPSKRBE DISTRIBUCIJE

- ☒ neadekvatna mreža ☐ kapaciteti crpnih stanica ☐ nedostatak rezervoara
☒ loše održavanje distribucijskih sustava vodoopskrbe ☐ dotrajalost
☐ drugo, molimo specificirajte

Koja su glavna vodoopskrbna upravljačka ograničenja u bližoj budućnosti (slijedećih 25-30 godina) ?

(Molimo rangirajte: 1 najznačajnije , 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

- ☒ Gubici ☒ Količina ☒ Kvaliteta ☐ Tarife za vodu
☐ Zakonodavstvo i politički okvir ☒ Nedostatak finansijskih sredstava ☐ Infrastruktura
☒ Kapaciteti: ☐ institucionalni ☐ tehnički ☒ ljudski
☐ Klimatske promjene ☐ Slaba suradnja ☐ Drugo, imenujte

Koji su najvažniji koraci i aktivnosti koje će unaprijediti vodoopskrbu u smislu navedenih pitanja i ograničenja?

- smanjiti gubitke u mreži
- unaprijediti politički okvir
- smanjiti finansijska na vodne resurse
- unaprijediti vodoopskrbu i
- smanjiti gubitke u mreži i tehnološki aspekt

Mislite li da bi se neka prekogranična pitanja mogla riješiti sa:

(Molimo rangirajte: 1 najznačajnije , 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

- ☐ Politika bi mogla riješiti većinu problema
☒ Odvajanje politike od rješavanja većine problema

Politika bi trebala donositi
odluke na temelju stručnih
oslova.

- ☒ Bolja suradnja između različitih sektora
☒ Bolja suradnja između lokalne i državne uprave
☒ Više financijskih resursa
☐ Tarife za vodu
☐ Drugo, imenovati :

Molimo navedite tri najznačajnija sudionika/ radnje za unaprijeđenje vodoopskrbe i upravljanje vodnim resursima:

- zaštita krhke vodoopskrbe (odlučivačke tijelo - odluke, programi)
- unapređenje usluga javne vodoopskrbe (nove usluge i rekonstrukcije stare)
- unapređenje usluga javne odvodnje i održavanje krhke opode

Što može učiniti vaša institucija/ organizacija kao bi unaprijedila vodoopskrbu, upravljanje vodnim resursima te kako bi pridonijela njenoj održivosti?

- unapređenje odlučivačke tijela u definiranju raspoloživih sredstava i provedbi odluka, proširenje krhke i tektonu opskrbe i proširenje odlučivačke tijela kroz proširenje

Mislite li da samo državna aktivnost pridonosi unapređenju vodoopskrbnog sustava:

☐ DA ☒ NE

Ukoliko je Vaš odgovor NE molimo navedite ostale institucije koje mogu unaprijediti vodoopskrbni sustav:

- regionalna vodoopskrba - regionalni sustavi
- lokalna vodoopskrba

Vaše poznavanje/ znanje s ulogom i aktivnostima bilateralnih komisija za regionalno prekogranično upravljanje vodoopskrbnim sustavima i upravljanje vodnim resursima:

☐ Sveobuhvatno ☒ Umjereno ☐ Slabo

Vaše poznavanje/ znanje s ulogom i aktivnostima lokalnih uprava za regionalno prekogranično upravljanje vodoopskrbnim sustavima:

☐ Sveobuhvatno ☒ Umjereno ☐ Slabo

Postoje li u vašoj zemlji zakonski okviri (sporazumi, ugovori, Memorandumi o razumijevanju i sl.) koji su značajni za regionalne prekogranične vodoopskrbne sustave i upravljanje vodenim resursima s kojima ste upoznati:

☐ Da ☐ NE

Nisu upoznate

Ukoliko je Vaš odgovor DA, molimo navedite naslov.

Jeste li upoznati sa pitanjima/ poteškoćama u pogledu regionalnih prekograničnih upravljanja vodenim resursima:

☐ Sveobuhvatno ☒ Umjereno ☐ Slabo

Molimo komentirajte ukoliko želite:

Razina provedbe Planova za upravljanje riječnim slivovima na nacionalnoj razini:

☐ Završen ☐ U tijeku ☒ Neodlučen

Molimo komentirati ukoliko želite:

Razina provedbe o Planovima upravljanja riječnim slivovima (prekogranični riječni slivovi):

☐ Završen ☐ U tijeku ☒ Neodlučen

Molimo komentirati ukoliko želite:

Koje su najvažnije teme s kojima biste se željeli upoznati vezano za regionalne prekogranične vodoopskrbne sustave te upravljanje vodenim resursima:

*Šteta Planova
Prekogranični upravljanje vodenim resursima*

Smatrate li korisnim ovaj tip radionica/ okruglih stolova:

☒ DA ☐ NE ☐ NE ZNAM

Dodatni komentari:

*Većina je komentara ovdje od navedenih dijelova /
dijelova koji su najvažniji u pogledu općeg funkcioniranja
sustava i kvalitete vodoopskrbe i vodoopskrbe.*

UPITNIK O REGIONALNIM, PREKOGRANIČNIM VODOOPSKRBNIM SUSTAVIMA I UPRAVLJANJU VODENIM RESURSIMA

Kapitalizacija i održiva djelatnost (CS) su vrlo važne komponente projekta, koje će osigurati okvir za razmjenu relevantnih informacija značajnih za prekogranične, regionalne vodoopskrbne sisteme između diokija, uprave, istraživačkih institucija itd.

Vaše mišljenje i povratne informacije prikupljene tijekom nacionalnih radionica dati će vrijedne informacije i pridonijeti će uspješnoj provedbi projekta DRINK ADRIA.

Ime:	AWOREJ
Prezime:	MANDIC
Institucija/ Organizacija: (Ukoliko želite ostati anonimni, molimo ne popunjavati)	ISTARSKA ŽUPANIJA

Vaša institucija/ misija organizacije/ glavni djelokrug rada:

☐ Vodoopskrba
 ☒ Uprava: ☐ lokalna ☒ regionalna ☐ državna
☐ Istraživačka organizacija ☐ Udruga za vodu ☐ Ostalo (molimo specificirati):

Vaše glavne aktivnosti fokusirane su na :

☐ vodoopskrbu ☒ vodozaštitu ☐ obrazovanje/istraživanje
☒ međunarodna suradnja ☐ financije/zakonodavstvo ☐ drugo, imenujte :

Koja prostorna skala najbolje odražava vaše aktivnosti i zadatke?
(Molimo koristite postotke na način da konačan zbroj bude 100%
Primjer: lokalno -55%, državno -25%, drugo - 20%)

lokalno __% regionalno 62% državno 20% međunarodno 20% drugo, imenujte : ____, __%

Koji su glavni problemi upravljanja vodoopskrbom/ sadašnji problemi?
(Molimo rangirajte: 1 najznačajnije , 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

1 ☒ Gubici 4 ☐ Kvantiteta ili količina 5 ☐ Kvaliteta 2 ☐ Tarife za vodu
 2 ☐ Zakonodavstvo I politički okviri 2 ☐ Nedostatak financijskih sredstava 3 ☒ Infrastruktura
 2 ☐ Kapaciteti: ☒ institucionalni ☒ tehnički ☒ ljudski
 3 ☒ Klimatske promjene 2 ☒ Loša suradnja ☐ Drugo, imenujte :

Molimo rangirajte sljedeće u pogledu ranije spomenutih pitanja/problema::

(Molimo rangirajte: 1 najznačajnije, 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

GUBICI

- ☐ neovlaštena potrošnja 3 ☐ pogreške u mjerenju 2 ☐ propuštanje distribucijske mreže
2 ☐ propuštanje distribucijske mreže
☐ drugo, molimo specificirajte 2 ☐ propuštanje objekata vodoopskrbe

KOLIČINA ILI KVANTITETA

- 2 ☐ povećanje potrošnje vode 2 ☐ sezonske oscilacije 3 ☐ kapaciteti skladištenja vode
2 ☐ promjene u korištenju zemljišta i sl.) 1 ☐ visoka potrošnja uzrokovana drugim sektorima (poljoprivreda, industrija)
2 ☐ klimatske promjene ☐ drugo, molimo specificirajte

KVALITETA

- 2 ☐ točkasti izvor zagađenja 4 ☐ netočasti izvori zagađenja 2 ☐ pitanja zaštite izvora
2 ☐ promjene u praksi korištenja zemljišta 3 ☐ sezonske oscilacije 2 ☐ klimatske promjene
☐ drugo, molimo specificirajte

GLAVNI PROBLEMI VODOOPSKRBNJE DISTRIBUCIJE

- 2 ☐ neadekvatna mreža 3 ☐ kapaciteti crpnih stanica ☐ nedostatak rezervoara
2 ☐ loše održavanje distribucijskih sustava vodoopskrbe 1 ☐ dotrajalost
☐ drugo, molimo specificirajte

Koja su glavna vodoopskrbna upravljačka ograničenja u bližoj budućnosti (sljedećih 25-30 godina) ?

(Molimo rangirajte: 1 najznačajnije, 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

- ☐ Gubici ☐ Količina 1 ☐ Kvaliteta ☐ Tarife za vodu
3 ☐ Zakonodavstvo i politički okvir 2 ☐ Nedostatak finansijskih sredstava ☐ Infrastruktura
2 ☐ Kapaciteti: ☒ institucionalni ☒ tehnički ☒ ljudski
2 ☐ Klimatske promjene 3 ☐ Slaba suradnja ☐ Drugo, imenujte

Koji su najvažniji koraci i aktivnosti koje će unaprijediti vodoopskrbu u smislu navedenih pitanja i ograničenja?

obnova vodoopskrbne mreže, manji gubici, završiti napuštene čile...

Mislite li da bi se neka prekogranična pitanja mogla riješiti sa:

(Molimo rangirajte: 1 najznačajnije, 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

- 3 ☐ Politika bi mogla riješiti većinu problema
3 ☐ Odvajanje politike od rješavanja većine problema

2	<input type="checkbox"/> Bolja suradnja između različitih sektora
2	<input type="checkbox"/> Bolja suradnja između lokalne i državne uprave
2	<input type="checkbox"/> Više financijskih resursa
4	<input type="checkbox"/> Tarife za vodu
	<input type="checkbox"/> Drugo, imenovati :
Molimo navedite tri najznačajnija sudionika/ radnje za unaprijeđenje vodoopskrbe i upravljanje vodnim resursima:	
Što može učiniti vaša institucija/ organizacija kao bi unaprijedila vodoopskrbu, upravljanje vodnim resursima te kako bi pridonijela njenoj održivosti? <i>Ispraviti u cilju zaštite resursa i sustava podzemne vode, uložiti na održavaj prepin: odli</i>	
Mislite li da samo državna aktivnost pridonosi unapređenju vodoopskrbnog sustava: <input type="checkbox"/> DA <input checked="" type="checkbox"/> NE Ukoliko je Vaš odgovor NE molimo navedite ostale institucije koje mogu unaprijediti vodoopskrbni sustav: <i>Obuhvate: regije</i>	
Vaše poznavanje/ znanje s ulogom i aktivnostima bilateralnih komisija za regionalno prekogranično upravljanje vodoopskrbnim sustavima i upravljanje vodnim resursima: <input type="checkbox"/> Sveobuhvatno <input checked="" type="checkbox"/> Umjereno <input type="checkbox"/> Slabo	
Vaše poznavanje/ znanje s ulogom i aktivnostima lokalnih uprava za regionalno prekogranično upravljanje vodoopskrbnim sustavima: <input type="checkbox"/> Sveobuhvatno <input checked="" type="checkbox"/> Umjereno <input type="checkbox"/> Slabo	
Postoje li u vašoj zemlji zakonski okviri (sporazumi, ugovori, Memorandumi o razumijevanju i sl.) koji su značajni za regionalne prekogranične vodoopskrbne sustave i upravljanje vodenim resursima s kojima ste upoznati: <input checked="" type="checkbox"/> Da <input type="checkbox"/> NE Ukoliko je Vaš odgovor DA, molimo navedite naslov.	
Jeste li upoznati sa pitanjima/ poteškoćama u pogledu regionalnih prekograničnih upravljanja vodenim resursima: <input type="checkbox"/> Sveobuhvatno <input type="checkbox"/> Umjereno <input checked="" type="checkbox"/> Slabo Molimo komentirajte ukoliko želite:	

Razina provedbe Planova za upravljanje riječnim slivovima na nacionalnoj razini:

☐ Završen ☒ U tijeku ☐ Neodlučen

Molimo komentirajte ukoliko želite:

Razina provedbe o Planovima upravljanja riječnim slivovima (prekogranični riječni slivovi):

☐ Završen ☒ U tijeku ☐ Neodlučen

Molimo komentirajte ukoliko želite:

Koje su najvažnije teme s kojima biste se željeli upoznati vezano za regionalne prekogranične vodoopskrbne sustave te upravljanje vodenim resursima:

Smatrate li korisnim ovaj tip radionica/ okruglih stolova:

☒ DA ☐ NE ☐ NE ZNAM

Dodatni komentari:

UPITNIK O REGIONALNIM, PREKOGRANIČNIM VODOOPSKRBNIM SUSTAVIMA I UPRAVLJANJU VODENIM RESURSIMA

Kapitalizacija i održiva djelatnost (CS) su vrlo važne komponente projekta, koje će osigurati okvir za razmjenu relevantnih informacija značajnih za prekogranične, regionalne vodoopskrbne sisteme između diokija, uprave, istraživačkih institucija itd.

Vaše mišljenje i povratne informacije prikupljene tijekom nacionalnih radionica dati će vrijedne informacije i pridonijeti će uspješnoj provedbi projekta DRINK ADRIA.

Ime:	
Prezime:	
Institucija/ Organizacija: (Ukoliko želite ostati anonimni, molimo ne popunjavati)	
Vaša institucija/ misija organizacije/ glavni djelokrug rada:	
<input type="checkbox"/> Vodoopskrba <input checked="" type="checkbox"/> Uprava: <input type="checkbox"/> lokalna <input checked="" type="checkbox"/> regionalna <input type="checkbox"/> državna <input type="checkbox"/> Istraživačka organizacija <input type="checkbox"/> Udruga za vodu <input type="checkbox"/> Ostalo (molimo specificirati):	
Vaše glavne aktivnosti fokusirane su na :	
<input type="checkbox"/> vodoopskrbu <input checked="" type="checkbox"/> vodozaštitu <input type="checkbox"/> obrazovanje/istraživanje <input type="checkbox"/> međunarodna suradnja <input type="checkbox"/> financije/zakonodavstvo <input type="checkbox"/> drugo, imenujte :	
Koja prostorna skala najbolje odražava vaše aktivnosti i zadatke? (Molimo koristite postotke na način da konačan zbroj bude 100% Primjer: lokalno -55%, državno -25%, drugo - 20%)	
lokalno <u>20</u> % regionalno <u>80</u> % državno <u> </u> % međunarodno <u> </u> % drugo, imenujte : <u> </u> , <u> </u> %	
Koji su glavni problemi upravljanja vodoopskrbom/ sadašnji problemi? (Molimo rangirajte: 1 najznačajnije , 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)	
<input type="checkbox"/> Gubici <input type="checkbox"/> Kvantiteta ili količina <u>5</u> <input type="checkbox"/> Kvaliteta <u>4</u> <input type="checkbox"/> Tarife za vodu <input type="checkbox"/> Zakonodavstvo i politički okviri <u>3</u> <input type="checkbox"/> Nedostatak financijskih sredstava <u>2</u> <input type="checkbox"/> Infrastruktura <input type="checkbox"/> Kapaciteti: <input type="checkbox"/> institucionalni <input type="checkbox"/> tehnički <input type="checkbox"/> ljudski <input type="checkbox"/> Klimatske promjene <input type="checkbox"/> Loša suradnja <input type="checkbox"/> Drugo, imenujte :	

Molimo rangirajte sljedeće u pogledu ranije spomenutih pitanja/problema::

(Molimo rangirajte: 1 najznačajnije , 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

GUBICI

- 2 ☐ neovlaštena potrošnja 3 ☐ pogreške u mjerenju 1 ☐ propuštanje distribucijske mreže
☐ propuštanje distribucijske mreže
☐ drugo, molimo specificirajte 4 ☐ propuštanje objekata vodoopskrbe

KOLIČINA ili KVANTITETA

- 2 ☐ povećanje potrošnje vode 1 ☐ sezonske oscilacije 4 ☐ kapaciteti skladištenja vode
☐ promjene u korištenju zemljišta 5 ☐ visoka potrošnja uzrokovana drugim sektorima (poljoprivreda, industrija i sl.) 3 ☐ klimatske promjene ☐ drugo, molimo specificirajte

KVALITETA

- 1 ☐ točkasti izvor zagađenja 3 ☐ netočasti izvori zagađenja 2 ☐ pitanja zaštite izvora
☐ promjene u praksi korištenja zemljišta 5 ☐ sezonske oscilacije 4 ☐ klimatske promjene
☐ drugo, molimo specificirajte

GLAVNI PROBLEMI VODOOPSKRBNE DISTRIBUCIJE

- 2 ☐ neadekvatna mreža 4 ☐ kapaciteti crpnih stanica 1 ☐ nedostatak rezervoara
5 ☐ loše održavanje distribucijskih sustava vodoopskrbe 3 ☐ dotrajalost
☐ drugo, molimo specificirajte

Koja su glavna vodoopskrbna upravljačka ograničenja u bližoj budućnosti (sljedećih 25-30 godina) ?

(Molimo rangirajte: 1 najznačajnije , 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

- ☐ Gubici 2 ☐ Količina 1 ☐ Kvaliteta 3 ☐ Tarife za vodu
☐ Zakonodavstvo i politički okvir 4 ☐ Nedostatak financijskih sredstava 5 ☐ Infrastruktura
☐ Kapaciteti: ☐ institucionalni ☐ tehnički ☐ ljudski
☐ Klimatske promjene ☐ Slaba suradnja ☐ Drugo, imenujte

Koji su najvažniji koraci i aktivnosti koje će unaprijediti vodoopskrbu u smislu navedenih pitanja i ograničenja?

Preventivna zaštita

Mislite li da bi se neka prekogranična pitanja mogla riješiti sa:

(Molimo rangirajte: 1 najznačajnije , 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

- 1 ☐ Politika bi mogla riješiti većinu problema
☐ Odvajanje politike od rješavanja većine problema

2	<input type="checkbox"/> Bolja suradnja između različitih sektora
3	<input type="checkbox"/> Bolja suradnja između lokalne i državne uprave
4	<input type="checkbox"/> Više financijskih resursa
5	<input type="checkbox"/> Tarife za vodu
	<input type="checkbox"/> Drugo, imenovati :
<p>Molimo navedite tri najznačajnija sudionika/ radnje za unaprijeđenje vodoopskrbe i upravljanje vodnim resursima:</p> <p><i>RH, HV, upravitelji sustava vodoopskrbe/odvodnje</i></p>	
<p>Što može učiniti vaša institucija/ organizacija kao bi unaprijedila vodoopskrbu, upravljanje vodnim resursima te kako bi pridonijela njenoj održivosti?</p> <p><i>Donijeti zakonom propisane dokumente</i></p>	
<p>Mislite li da samo državna aktivnost pridonosi unapređenju vodoopskrbnog sustava:</p> <p><input checked="" type="checkbox"/> DA <input type="checkbox"/> NE</p> <p>Ukoliko je Vaš odgovor NE molimo navedite ostale institucije koje mogu unaprijediti vodoopskrbni sustav:</p>	
<p>Vaše poznavanje/ znanje s ulogom i aktivnostima bilateralnih komisija za regionalno prekogranično upravljanje vodoopskrbnim sustavima i upravljanje vodnim resursima:</p> <p><input type="checkbox"/> Sveobuhvatno <input type="checkbox"/> Umjereno <input checked="" type="checkbox"/> Slabo</p>	
<p>Vaše poznavanje/ znanje s ulogom i aktivnostima lokalnih uprava za regionalno prekogranično upravljanje vodoopskrbnim sustavima:</p> <p><input type="checkbox"/> Sveobuhvatno <input type="checkbox"/> Umjereno <input checked="" type="checkbox"/> Slabo</p>	
<p>Postoje li u vašoj zemlji zakonski okviri (sporazumi, ugovori, Memorandumi o razumijevanju i sl.) koji su značajni za regionalne prekogranične vodoopskrbne sustave i upravljanje vodenim resursima s kojima ste upoznati:</p> <p><input type="checkbox"/> Da <input checked="" type="checkbox"/> NE</p> <p>Ukoliko je Vaš odgovor DA, molimo navedite naslov.</p>	
<p>Jeste li upoznati sa pitanjima/ poteškoćama u pogledu regionalnih prekograničnih upravljanja vodenim resursima:</p> <p><input type="checkbox"/> Sveobuhvatno <input type="checkbox"/> Umjereno <input checked="" type="checkbox"/> Slabo</p> <p>Molimo komentirajte ukoliko želite:</p>	

Razina provedbe Planova za upravljanje riječnim slivovima na nacionalnoj razini:

☐ Završen ☐ U tijeku ☒ Neodlučen

Molimo komentirajte ukoliko želite:

Razina provedbe o Planovima upravljanja riječnim slivovima (prekogranični riječni slivovi):

☐ Završen ☐ U tijeku ☒ Neodlučen

Molimo komentirajte ukoliko želite:

Koje su najvažnije teme s kojima biste se željeli upoznati vezano za regionalne prekogranične vodoopskrbne sustave te upravljanje vodenim resursima:

suradnja IŽ i općina u Sloveniji

Smatrate li korisnim ovaj tip radionica/ okruglih stolova:

☒ DA ☐ NE ☐ NE ZNAM

Dodatni komentari:

UPITNIK O REGIONALNIM, PREKOGRANIČNIM VODOOPSKRBNIM SUSTAVIMA I UPRAVLJANJU VODENIM RESURSIMA

Kapitalizacija i održiva djelatnost (CS) su vrlo važne komponente projekta, koje će osigurati okvir za razmjenu relevantnih informacija značajnih za prekogranične, regionalne vodoopskrbne sisteme između diokija, uprave, istraživačkih institucija itd.

Vaše mišljenje i povratne informacije prikupljene tijekom nacionalnih radionica dati će vrijedne informacije i pridonijeti će uspješnoj provedbi projekta DRINK ADRIA.

Ime:	DANIĆ
Prezime:	MILANOVIĆ
Institucija/ Organizacija: (Ukoliko želite ostati anonimni, molimo ne popunjavati)	ISTARSKI VODOVOD d.o.o. Buzet

Vaša institucija/ misija organizacije/ glavni djelokrug rada:

☒ Vodoopskrba
 ☐ Uprava: ☐ lokalna ☐ regionalna ☐ državna
☐ Istraživačka organizacija ☐ Udruga za vodu ☐ Ostalo (molimo specificirati):

Vaše glavne aktivnosti fokusirane su na :

☒ vodoopskrbu ☐ vodozaštitu ☐ obrazovanje/istraživanje
☐ međunarodna suradnja ☐ financije/zakonodavstvo ☐ drugo, imenujte :

Koja prostorna skala najbolje odražava vaše aktivnosti i zadatke?
(Molimo koristite postotke na način da konačan zbroj bude 100%
Primjer: lokalno -55%, državno -25%, drugo - 20%)

lokalno 90% regionalno 10% državno 0% međunarodno 0% drugo, imenujte : , %

Koji su glavni problemi upravljanja vodoopskrbom/ sadašnji problemi?
(Molimo rangirajte: 1 najznačajnije , 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

☒ Gubici ☒ Kvantiteta ili količina ☒ Kvaliteta ☒ Tarife za vodu
☒ Zakonodavstvo i politički okviri ☒ Nedostatak finansijskih sredstava ☒ Infrastruktura
☒ Kapaciteti: ☐ institucionalni ☒ tehnički ☐ ljudski
☒ Klimatske promjene ☒ Loša suradnja ☐ Drugo, imenujte :

Molimo rangirajte sljedeće u pogledu ranije spomenutih pitanja/problema::

(Molimo rangirajte: 1 najznačajnije, 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

GUBICI

- ☒ neovlaštena potrošnja ☒ pogreške u mjerenju ☒ propuštanje distribucijske mreže
☒ propuštanje distribucijske mreže
☐ drugo, molimo specificirajte ☒ propuštanje objekata vodoopskrbe

KOLIČINA ili KVANTITETA

- ☒ povećanje potrošnje vode ☒ sezonske oscilacije ☒ kapaciteti skladištenja vode
☒ promjene u korištenju zemljišta ☒ visoka potrošnja uzrokovana drugim sektorima (poljoprivreda, industrija i sl.) ☒ klimatske promjene ☐ drugo, molimo specificirajte

KVALITETA

- ☒ točkasti izvor zagađenja ☒ netočasti izvori zagađenja ☒ pitanja zaštite izvora
☒ promjene u praksi korištenja zemljišta ☒ sezonske oscilacije ☒ klimatske promjene
☐ drugo, molimo specificirajte

GLAVNI PROBLEMI VODOOPSKRBE DISTRIBUCIJE

- ☒ neadekvatna mreža ☒ kapaciteti crpnih stanica ☒ nedostatak rezervoara
☒ loše održavanje distribucijskih sustava vodoopskrbe ☒ dotrajalost
☐ drugo, molimo specificirajte

Koja su glavna vodoopskrbna upravljačka ograničenja u bližoj budućnosti (sljedećih 25-30 godina) ?

(Molimo rangirajte: 1 najznačajnije, 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

- ☒ Gubici ☒ Količina ☒ Kvaliteta ☒ Tarife za vodu
☒ Zakonodavstvo i politički okvir ☒ Nedostatak financijskih sredstava ☒ Infrastruktura
☐ Kapaciteti: ☐ institucionalni ☐ tehnički ☐ ljudski
☒ Klimatske promjene ☒ Slaba suradnja ☐ Drugo, imenujte

Koji su najvažniji koraci i aktivnosti koje će unaprijediti vodoopskrbu u smislu navedenih pitanja i ograničenja?

OBNOVA POSTOJEĆE INFRASTRUKTURE

Mislite li da bi se neka prekogranična pitanja mogla riješiti sa:

(Molimo rangirajte: 1 najznačajnije, 5 najmanje značajno, ako je moguće dodijelite isti rang maksimalno za dva pitanja/problema)

- ☒ Politika bi mogla riješiti većinu problema
☒ Odvajanje politike od rješavanja većine problema

- ☒ Bolja suradnja između različitih sektora
☒ Bolja suradnja između lokalne i državne uprave
☒ Više financijskih resursa
☒ Tarife za vodu
☐ Drugo, imenovati :

Molimo navedite tri najznačajnija sudionika/ radnje za unaprijeđenje vodoopskrbe i upravljanje vodnim resursima:

- BOJE ODRŽAVANJE POSTOJEĆE INFRASTRUKTURE
 - PLAĆENJE GUBITAKA - SVAKODNEVNO
 - BOJI ULAZNI RESURS VODE, VAŽNA KVALITETA

Što može učiniti vaša institucija/ organizacija kao bi unaprijedila vodoopskrbu, upravljanje vodnim resursima te kako bi pridonijela njenoj održivosti?

Mislite li da samo državna aktivnost pridonosi unapređenju vodoopskrbnog sustava:

☐ DA ☒ NE

Ukoliko je Vaš odgovor NE molimo navedite ostale institucije koje mogu unaprijediti vodoopskrbni sustav:

Vaše poznavanje/ znanje s ulogom i aktivnostima bilateralnih komisija za regionalno prekogranično upravljanje vodoopskrbnim sustavima i upravljanje vodnim resursima:

☐ Sveobuhvatno ☐ Umjereno ☒ Slabo

Vaše poznavanje/ znanje s ulogom i aktivnostima lokalnih uprava za regionalno prekogranično upravljanje vodoopskrbnim sustavima:

☐ Sveobuhvatno ☒ Umjereno ☐ Slabo

Postoje li u vašoj zemlji zakonski okviri (sporazumi, ugovori, Memorandumi o razumijevanju i sl.) koji su značajni za regionalne prekogranične vodoopskrbne sustave i upravljanje vodenim resursima s kojima ste upoznati:

☐ Da ☒ NE

Ukoliko je Vaš odgovor DA, molimo navedite naslov.

Jeste li upoznati sa pitanjima/ poteškoćama u pogledu regionalnih prekograničnih upravljanja vodenim resursima:

☐ Sveobuhvatno ☐ Umjereno ☒ Slabo

Molimo komentirajte ukoliko želite:

<p>Razina provedbe Planova za upravljanje riječnim slivovima na nacionalnoj razini:</p> <p><input type="checkbox"/> Završen <input checked="" type="checkbox"/> U tijeku <input type="checkbox"/> Neodlučen</p> <p>Molimo komentirajte ukoliko želite:</p>
<p>Razina provedbe o Planovima upravljanja riječnim slivovima (prekogranični riječni slivovi):</p> <p><input type="checkbox"/> Završen <input type="checkbox"/> U tijeku <input checked="" type="checkbox"/> Neodlučen</p> <p>Molimo komentirajte ukoliko želite:</p>
<p>Koje su najvažnije teme s kojima biste se željeli upoznati vezano za regionalne prekogranične vodoopskrbne sustave te upravljanje vodenim resursima:</p>
<p>Smatrate li korisnim ovaj tip radionica/ okruglih stolova:</p> <p><input checked="" type="checkbox"/> DA <input type="checkbox"/> NE <input type="checkbox"/> NE ZNAM</p>
<p>Dodatni komentari:</p>

ANNEX 4: NATIONAL DATA GREECE

Report on the first national workshop within the project **DRINKADRIA** in Greece

Topic:

**Water resources and
supply management
in Greece &
*Non Revenue Water
Reduction***



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Contributor/s	FB15 Region of Ionian Islands
Date last release	September 2015
State of document	Final version

Let's grow up together



DRINKADRIA



The project is co-funded by the European Union,
Instrument for Pre-Accession Assistance

The **first one-day national capitalization workshop** took place in Corfu on September 21st 2015, back to back with the **first one-day technical workshop** (September 22nd 2015) and the partner's meeting (September 22nd – 24th 2015), within the framework of the project “DRINKADRIA” (Networking for Drinking Water Supply and the Adriatic Region). These workshops were held in Faliraki of Corfu and they were organized by the University of Thessaly with the contribution of Region of Ionian Islands. The topic of the national capitalization workshop was “*Water resources and supply management in Greece*” aiming at the exchange of knowledge and experience in this field and presenting the activities implemented by the Region of Ionian Islands and the University of Thessaly and the results to be achieved within the framework of Drinkadria focusing in the Greek pilot case (Corfu water supply).

1st National Capitalization Workshop (September 21st 2015)

The official opening took place by the Regional Governor of Ionian Islands. He thanked initially the representatives of the relevant stakeholders (Water Utilities) for their participation in the 1st National Capitalization Meeting and highlighted the importance of water resources and supply management, especially within the Region of Ionian Islands, which frequently experiences several problems in the island of Corfu and the broader area. The Governor also outlined the need and importance of efficient measures, tools and technics and the cooperation with the research community such as the University of Thessaly in Greece. He praised the excellent cooperation between Drinkadria beneficiaries who have created an open forum of support and collaboration in relative issues within the Adriatic area. Finally, he mentioned the importance of signing the MoU between the Region of Ionian Islands and the Municipality of Corfu for efficient water resources and supply management.

Professor V. Kanakoudis the scientific coordinator of the activities implemented from the University of Thessaly welcomed also the participants and stressed the importance of the exchange of best practices and know-how between the beneficiaries involved in Drinkadria project. He also highlighted the importance of the 1st National Capitalization Workshop and the 1st Technical Workshop.

The workshop was attended by a total number of 37 participants from relevant stakeholders from the Region of Ionian Islands and also organizations from other regions in Greece such as decentralized administrations, water utilities, local government of Corfu and several municipalities.



The following presentations took place during the workshop:

Presentation of DrinkAdria Project	
17:15	Anastasia Papadopoulou, University of Thessaly, Member of the Project Team
<p>During this presentation the Methodological Approach, the Core Outputs and Results, the Next Steps and Conclusions were analyzed. Climate change characteristics and water resources availability, Water quality analysis and trends, Historical development of cross-border drinking water supply systems, Standard protocols and procedures for efficient and effective cross border water supply and regional drinking water supply economics model were presented.</p> <p>Mrs Papadopoulou also described the importance of the effective partnership scheme (Research organizations, state-of-the-art knowledge water utilities with unique many years' experience in water supply and recourses management and</p>	

the regional authorities responsible for the capitalization of the project's results and to policy recommendation.	
The DrinkAdria Project as a springboard for the interconnection of the Water Utilities	
17:30	Assoc. Prof. Vasilis Kanakoudis Scientific Coordinator and Project Manager, University of Thessaly
Prof.Kanakoudis highlighted the opportunities offered through the implementation of Drinkadria project for possible cooperation between water utilities in Greece aiming at developing and improving the water supply system and achieving sustainability of water resources.	
Climate Change and its impact on the availability and the quality of the water resources reserves	
17:45	Dr. Stavroula Tsitsifli University of Thessaly, Member of the Project Team
Dr. Stavroula Tsitsifli during her presentation specific challenges due to climate change and impacts in the quantity and quality of water resources were presented and discussed.	
The Management of water resources on the island of Corfu	
18:15	Dr. Michalis Lagadas, Head of the Water Division of the Ionian Islands, Decentralized Administration of Peloponnese, West Greece and Ionian islands
During the presentation of Dr. Michael Lagada, water resources and protection management plans on the island of Corfu through the sustainable use of water resources were presented. He also analyzed the current situation of water resources in the Ionian Islands and future projects for its improvement.	
Presentation of DrinkAdria pilot cases	
18:30	Dr. Stavroula Tsitsifli University of Thessaly, Member of the Project Team
During her presentation Dr. Stavroula Tsitsifli discussed the pilot actions undertaken by Drinkadria project partners, the specific objectives and methods of their application with regards to the transnational cooperation between several countries within the Adriatic region for the Management of Drinking Water.	
Round Table	
19:00	Assoc. Prof. Vasilis Kanakoudis Scientific Coordinator and Project Manager, University of Thessaly
Dr Kanakoudis pointed out the importance of implementation of such cross-border projects in Greece for an effective regional cooperation, aiming in strengthening the relations between several countries.	

1st Technical Workshop (September 22nd 2015)

In accordance with the established agenda, the workshop was opened by Professor V. Kanakoudis the scientific coordinator of the activities implemented from the University of Thessaly, who welcomed the participants and highlighted the importance of the 1st Technical Workshop.



The workshop was attended by a total number of 33 participants from relevant stakeholders from the Region of Ionian Islands and also organizations from other regions in Greece such as decentralized administrations, water utilities, local government of Corfu and several municipalities.



During the implementation of the workshop the Regional Governor of Ionian Islands and the Mayor of Corfu signed the MoU for efficient water resources and supply management.



The following presentations took place during the workshop:

Integrated Management of Water supply networks and reduction of non- revenue water – Analyzing the water balance of the water network	
09:45	Dr. Stavroula Tsitsifli, University of Thessaly, Member of the Project Team
During the presentation of Dr. Stavroula Tsitsifli challenges of the management of drinking water, analyzing costs, pricing of water and water systems were discussed. Management of water resources in order to reduce the non-contributory water and modeling water supply networks, developing and applying pressure DMAs management programs were also presented.	
10:30	Modeling of the water supply networks, development of DMAs and

	appliance of programs for pressure management– Konstantinos Gonelas, University of Thessaly
During the presentation of Mr. Constantine Gkonela developing a hydraulic model with appropriate integration of non-contributory water and technical monitoring leakage and pressure management using reducer were presented.	
Press Conference of Regional Government of Corfu Mr Theodoros Galiatsatos and Signing of MoU between the Region of Ionian Islands, Corfu Municipality and Water Utility of Corfu took place	
The experience of the Municipal Water and Wastewater Utility of Kozani	
11:45	Charis Kouziakis, Head of the Department of Studies and Implementation of Water and Sewage Works Municipal Water and Wastewater Utility of Kozani
During the presentation Mr. Haris Kouziakis, reducing pressure measures in Kozani water network, the methodology applied and the reduction of Non-Revenue Water consumption through the installation of PRVs were presented.	
Finding the balance point of the effective and reciprocal use of water in an urban network	
12:30	Assoc. Prof. Vasilis Kanakoudis Scientific Coordinator and Project Manager Konstantinos Gonelas, University of Thessaly
During the presentation of Assoc. Professor Vasilis Kanakoudis and Mr. Gkonelas relevant models for finding the level of sustainability of consumption of the water supply system were presented and discussed.	

Energy recovery opportunities in the water supply networks using micro-turbines –	
13:00	Assoc. Prof. Vasilis Kanakoudis, Scientific Coordinator and Project Manager Menelaos Patelis, University of Thessaly
During the presentation of Assoc. Professor Vasilis Kanakoudis and Mr. Menelaos Patelis the contribution of the use of micro -tourmpinon energy recovery in water supply networks were presented and discussed, along with the installation of micro turbines and the reduction in energy consumption, bringing as an example the study area of Palermo.	
Round Table	
14:00	
During the closure of the capitalization meeting Professor Vasilis Kanakoudis pointed out the importance of implementation of cross-border projects for the development in Greece and for effective regional cooperation, which strengthening the relations between the countries involved.	

All the attendees were distributed promotional material (brochures, folders, notebooks, presentations) for informing the stakeholders about the DRINKADRIA project in general and specifically on the activities of Water Utility of Corfu within the DRINKADRIA project.

The participants were given two questionnaires referring to the feedback about the methodology of water resources management and the DRINKADRIA project. 16 questionnaires were filled in. 52,94% of the participants activities are mainly focused on water supply and 23,56% on water protection.

Having analyzed the responses to the survey questions (1st questionnaire), it can be concluded as follows:

- I. Referring to the question: *“Would you like to be more informed on common methodologies for determining the availability of water resources, assessment of the impact of climate change on the quantity and quality of water resources, the vulnerability of water resources, risks, hazards and establishing protection zones?”* 100% of respondents would like to be more informed.
- II. When it comes to technical protocols with respect to their importance for cross-border / regional water supply systems, the participants evaluated *operation and maintenance* as the most important thing (18,56%) and then follows the *water quality* (17,53%), *emergency situations management* (16,49%) and *financing* (14,43%), while *planning and governance* were considered as the least important.
- III. Referring to the question: *“Would you like to be involved in the development of the protocol?”* 40% of the participants answered yes and 60% had no opinion.
- IV. With reference to the participants who said that they would participate in the development of the protocol, 100% of them would do it during the drafting process.
- V. 66,67% of the participants are moderately familiar with the web platform of the DRINKADRIA project, while 33,33% are insufficiently familiar.
- VI. 100% of the participants would be more likely to visit a web platform of the DRINKADRIA project if they received an e-mail notification of new contents.

- VII. When asked *if they would like to contribute to the development of DRINKADRIA brochures / flyers*, 50% of them said YES and 50% of the participants said that they would give their contribution to professional articles.
- VIII. 100% of participants would like to be connected with other participating countries in the DRINKADRIA project.
- IX. All the participants believe that this kind of workshop is useful.
- X. 25% of participants think that the workshop should be focused on the legislative framework and 75% of them on achieved project objectives.

Having analyzed the responses to the survey questions (2nd questionnaire), it can be concluded as follows:

- I. Referring to the question: *“Which is the spatial scale that reflects the best your activities and tasks?”* 69,38% of respondents are local, 15,63% are national, 13,13% are regional and 1,88% are international (Figure 1).

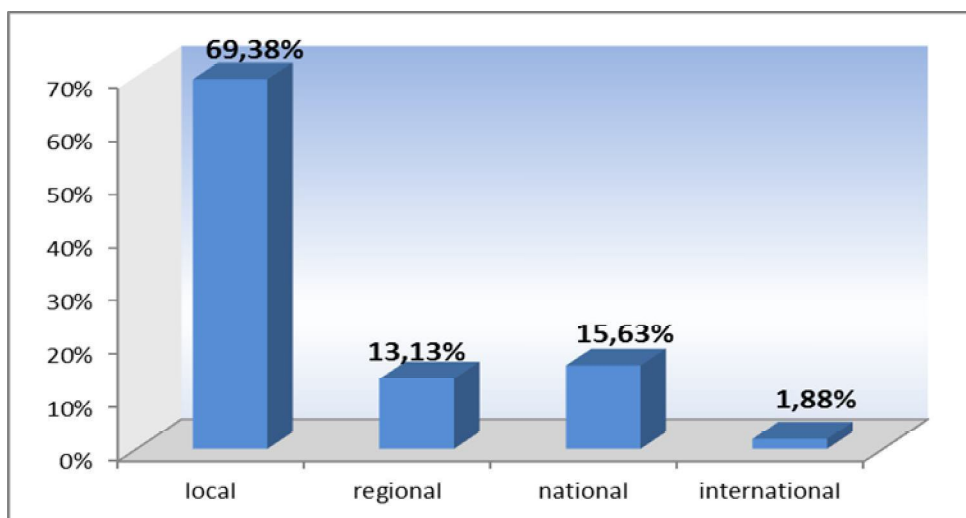


Figure 1. Spatial scale that reflects the best your activities and tasks

- II. When it comes to the main water supply management issues/ problems at the present 16,13% replied water losses (Figure 2).

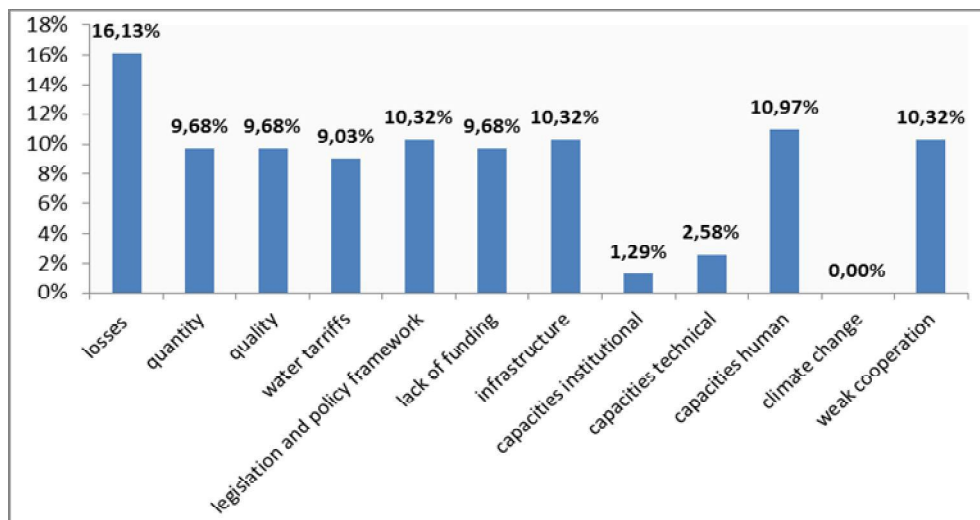


Figure 2. Main water supply management issues/ problems at the present

- III. Referring to the question: “Rank the following in terms of losses” 27,16% answered water supply facilities leakage, 24,69% metering errors, 23,46% unauthorized consumption and 16,05% distribution network leakage (Figure 3).

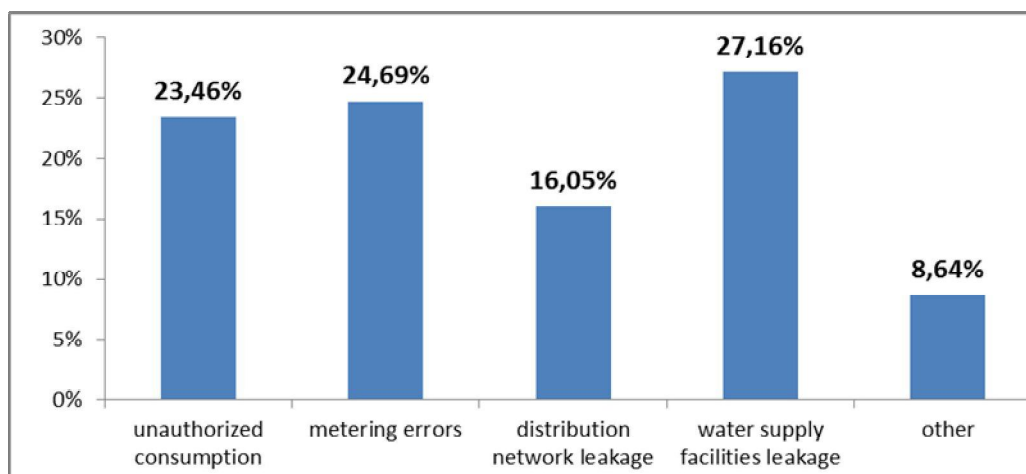


Figure 3. Issues/problems in terms of losses

- IV. Referring to the question: “Rank the following in terms of quantity” 24,44% answered water storage capacities and 24,44% high consumption by other sectors (Figure 4).

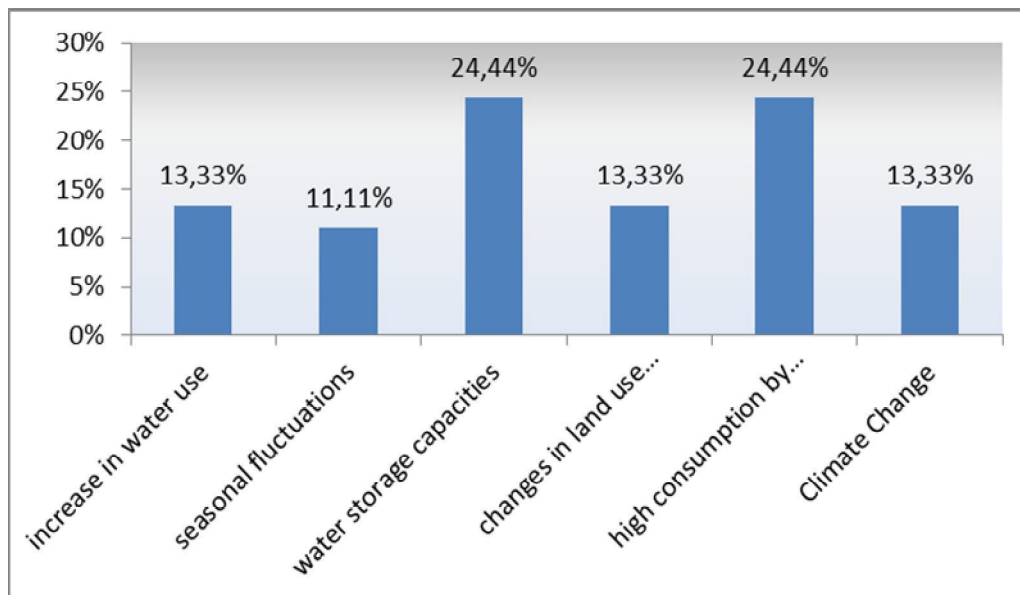


Figure 4. Issues/problems in terms of quantity

- V. Referring to the question: “Rank the following in terms of water supply distribution constrains” 23,53% answered reservoirs deficiency, 21,18% inadequate network and 21,18% pumping stations capacities (Figure 5).

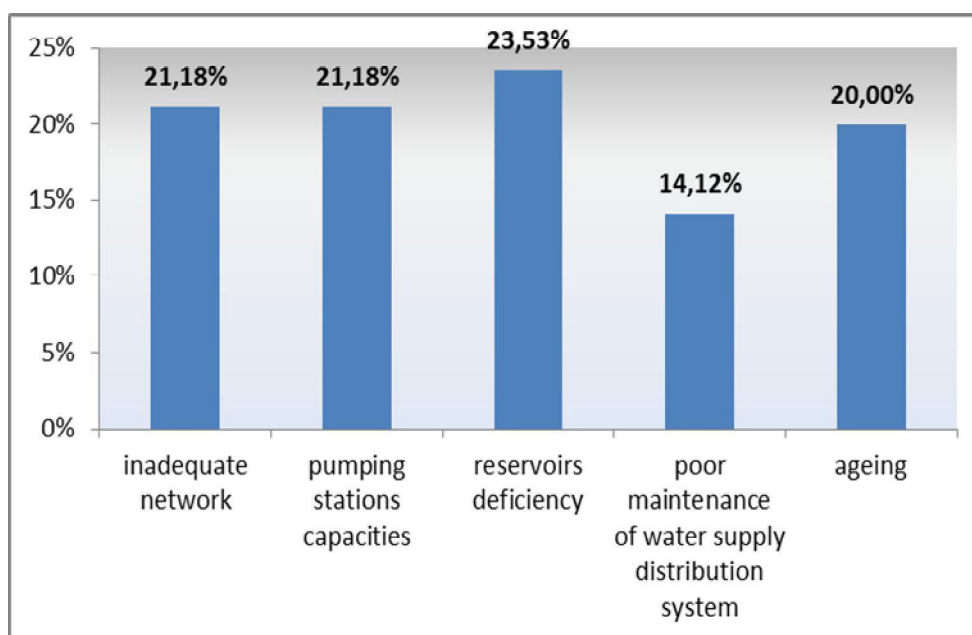


Figure 5. Issues/problems in terms of water supply distribution constrains

- VI. Referring to the question: “Which are the main water supply management constrains in the near future (next 25- 30 years)” 14,81% answered human capacities, 14,2% infrastructure and 12,35% lack of funding (Figure 6).

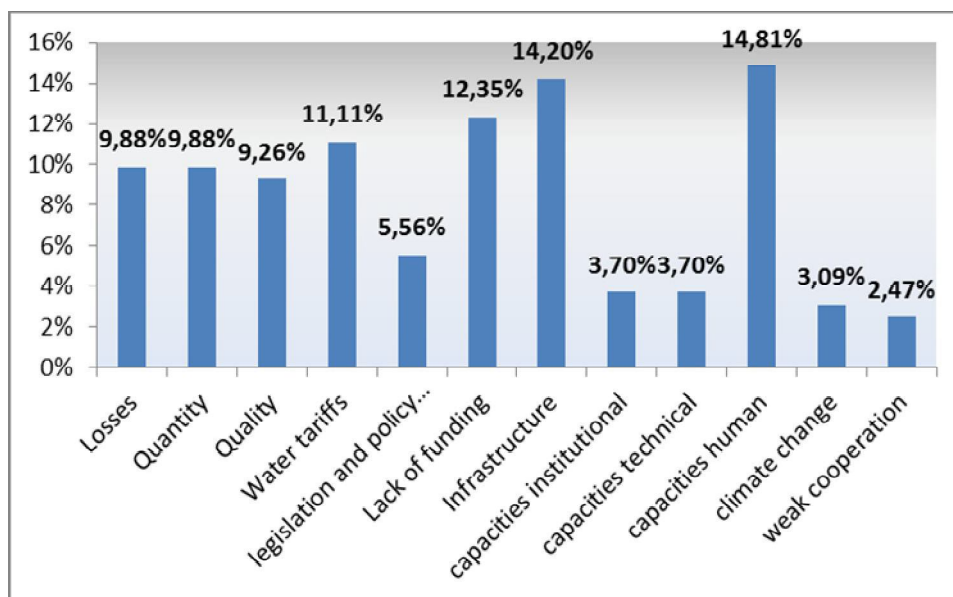


Figure 6. Which are the main water supply management constrains in the near future (next 25- 30 years)

- VII. Referring to the question: “Which are the most important steps and activities that would improve water supply in terms of aforementioned issues and constrains?” 17,07% of respondents answered improved knowledge about future water availability and future planning (Figure 7).
- VIII. Referring to the question: “Which are some cross-cutting issues can be solved by?” 23,39% of respondents answered better cooperation among different sectors (Figure 8).

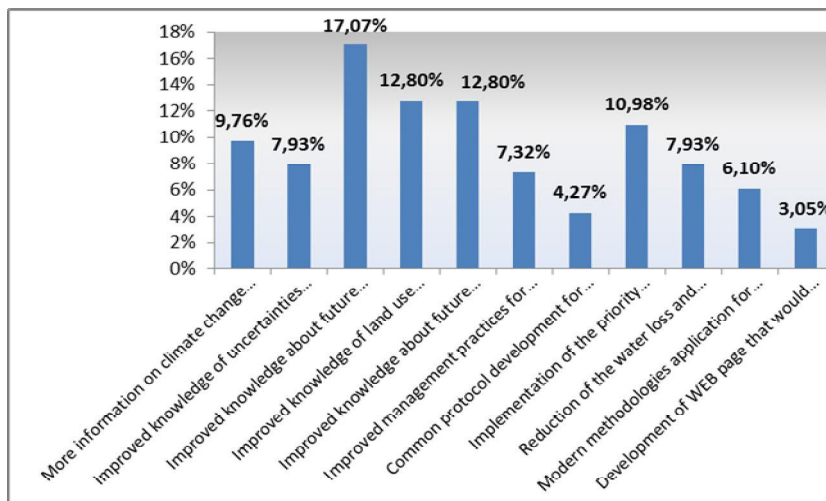


Figure 7. Most important steps and activities that would improve water supply in terms of aforementioned issues and constrains

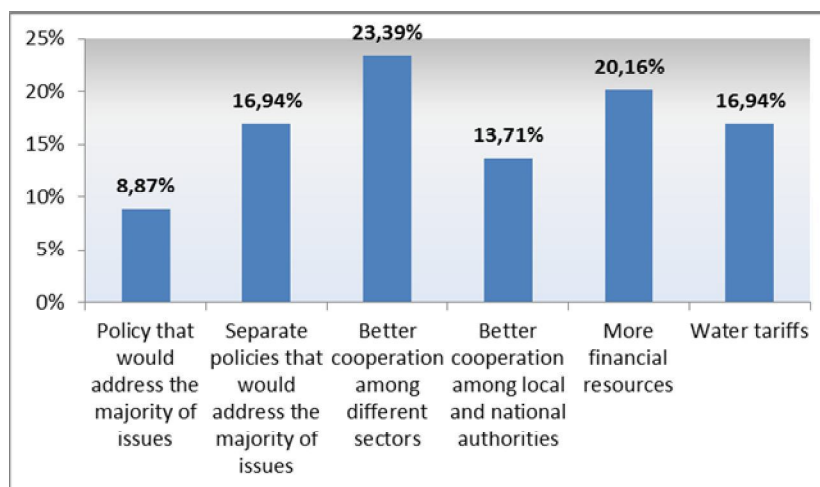


Figure 8. Solution for cross-cutting issues

IX. Referring to the question: “List 3 most significant actors/ actions for improved water supply and water resources management?” responders answered the following:

- Reservoirs
- water losses reduction
- human resources
- contemporary water network
- new consumption monitoring tools
- public awareness
- development of water supply network

- development of water losses detection using telemetry
 - common body for financial sources management
- X. Referring to the question: *“List actions that your institution/ organization might take to improve water supply and water resources management and contribute to its sustainability?”* responders answered the following:
- funding absorption percentage
 - additional funding sources
 - development of water supply network
 - water resources use reduction
- XI. Referring to the question: *“Do you think that only state activities contribute to improved water supply?”* 55,56% answered negatively and 44,44% positively.
- XII. Referring to the question: *“Which is your familiarity/ knowledge with role and activities of Bilateral Commissions of significance for cross – border/ regional water supply and water resources management?”* 44,44% answered moderate, 33,33% answered deficient and 22,22% comprehensive (Figure 9).
- XIII. Referring to the question: *“Which is your familiarity/ knowledge with role and activities of Local Authorities of significance for cross – border/ regional water supply?”* 44,44% answered moderate, 33,33% answered deficient and 22,22% comprehensive (Figure 10).

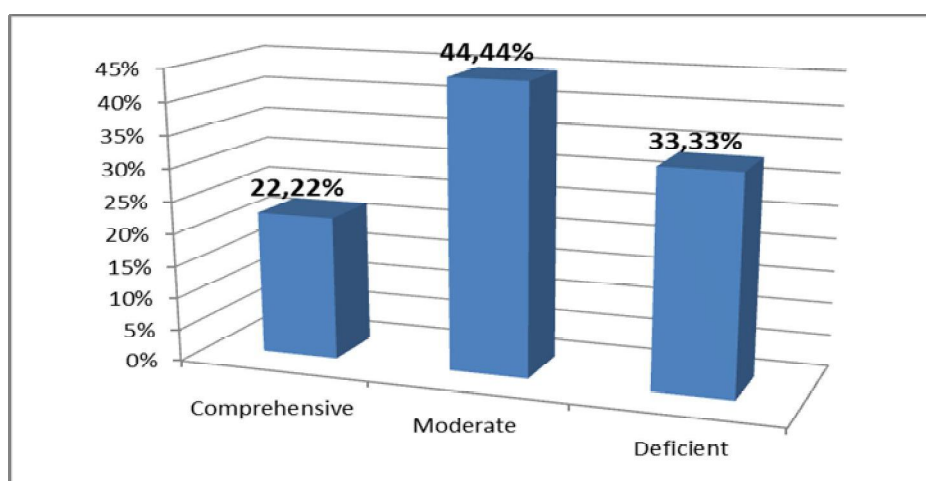


Figure 9. Familiarity/ knowledge with role and activities of Bilateral Commissions of significance for cross – border/ regional water supply and water resources management

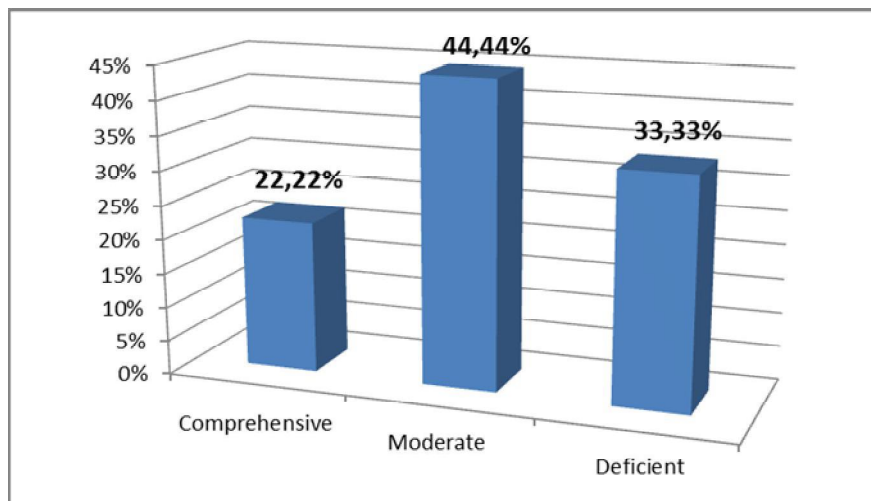


Figure 10. Familiarity/ knowledge with role and activities of Local Authorities of significance for cross – border/ regional water supply

- XIV. Referring to the question: *“Are there legislative frameworks (treaties, agreements, Memorandum of Understanding, etc.) that are significant for cross-border/ regional water supply systems and water resource management you are familiar with in your country/region?”* 66,67% answered no and 33,33% answered yes.
- XV. Referring to the question: *“Which is your familiarity with issues/ constrains regarding cross- border / regional water resources?”* 33,33% answered moderate, 55,56% answered deficient and 11,11% comprehensive (Figure 11).

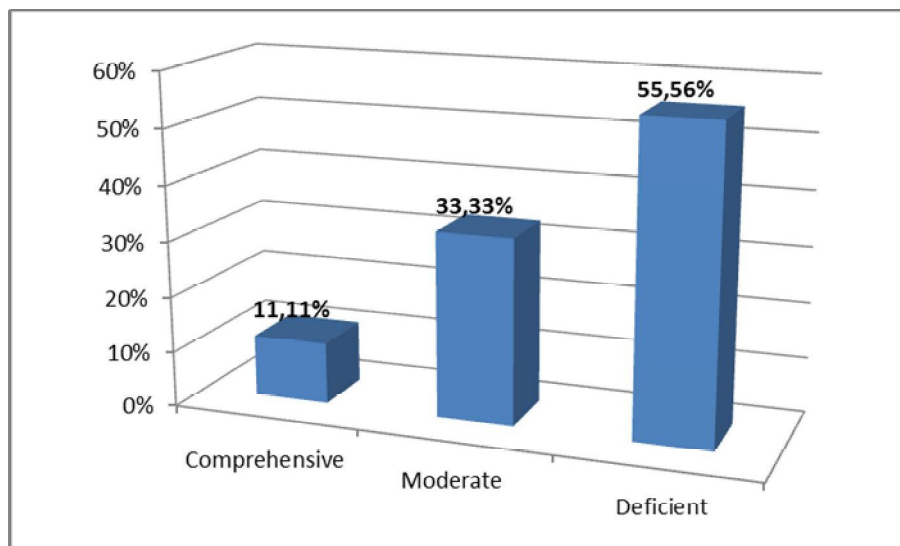


Figure 11. Familiarity with issues/ constrains regarding cross- border / regional water resources

- XVI. Referring to the question: *“Which is the implementation level of River basin Management Plans at the national level?”* 20% answered completed, 20% answered ongoing and 60% pending (Figure 12).

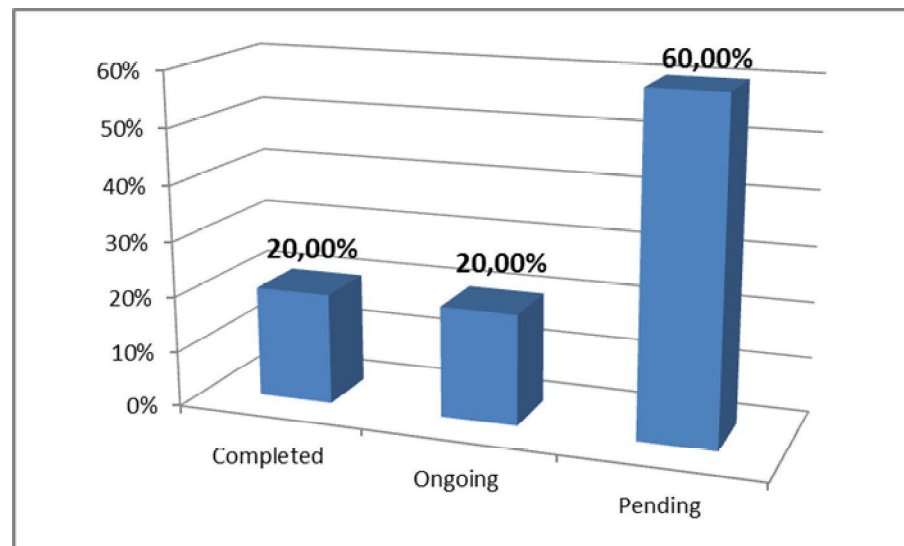


Figure 12. Implementation level of River basin Management Plans at the national level

- XVII. Referring to the question: *“Which is the implementation level of River basin Management Plans (trans boundary river basins)?”* 100% answered pending.
- XVIII. Referring to the question: *“Which are the most important topics that you would like to become more familiar regarding to cross- border /regional water supply systems and water resources management)?”* responders answered water utility operation and water supply and water pollution.
- XIX. Referring to the question: *“Do you consider this type of workshops/roundtables us?”* 100% answered positively.
- XX. An additional comment is that more clarifications are necessary for answering the questionnaires.



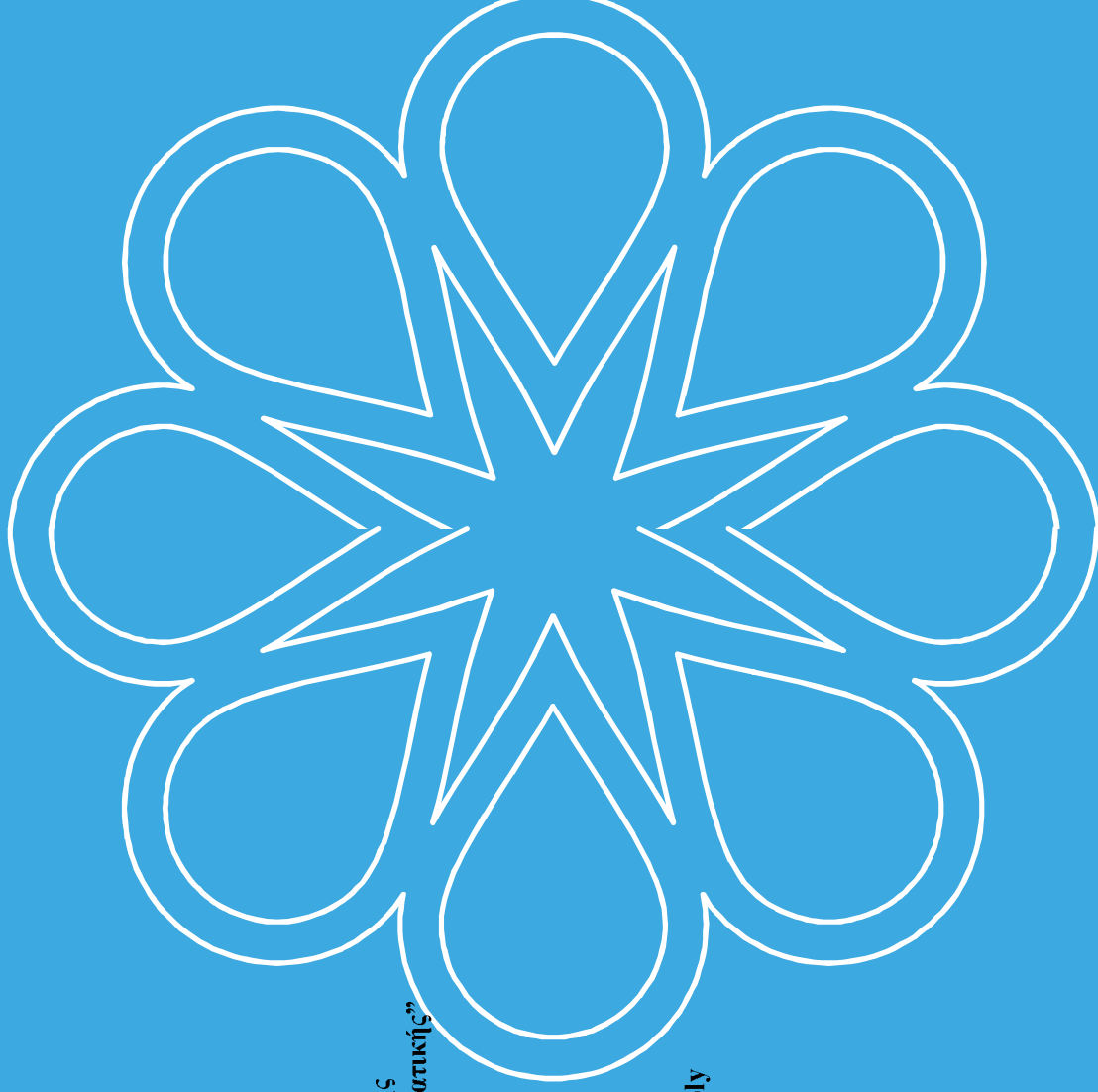
Περιφέρεια Ιονίων Νήσων



Πανεπιστήμιο Θεσσαλίας

“Διασυννοριακή Συνεργασία Διαχείρισης
Πόσιμου Νερού στην περιοχή της Αδριατικής”
Έργο DRINKADRIA
Συνάντηση Κεφαλαιοποίησης
Αποτελεσμάτων
21 Σεπτεμβρίου 2015

“Networking for Drinking Water Supply
in the Adriatic Region”
DRINKADRIA Project.
Capitalization Meeting
21 September 2015



Συνάντηση Κεφαλαιοποίησης του Έργου
DrinkAdria
Κέρκυρα 21.09.2015
Capitalization Meeting Corfu 21.09.2015

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E-mail: k.kiriaki@1723.syzefxis.gov.gr
Tel.: +30 266 13 62270
Fax.: +30 26610 32525

Meeting venue
Agios Nicolaos gate (Faliraki)
Corfu 49100
Tel.: +30 26610 28337
Fax.: +30 26610 36257



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ΣΥΝΑΝΤΗΣΗ ΣΤΗΝ ΚΕΡΚΥΡΑ – ΠΡΟΓΡΑΜΜΑ
Κεφαλαιοποίηση των αποτελεσμάτων του έργου DrinkAdria
Κέρκυρα, Δευτέρα 21 Σεπτεμβρίου 2015

17:00-17:00	Έναρξη - Δηλώσεις Συμμετοχής	17:00-17:00	Registration
17:15 - 17:30	Παρουσίαση του έργου Drinkadria Αναστασία Παπαδοπούλου Πανεπιστήμιο Θεσσαλίας, Μέλος της Ομάδας Έργου	17:15 - 17:30	Presentation of DrinkAdria Project Anastasia Papadopoulou University of Thessaly, Member of the Project Team
17:30 - 17:45	Το έργο DRINKADRIA ως εφαλτήριο διασύνδεσης των Εταιρειών Ύδρευσης Αν Καθρηγής Βασιλίας Κανακούδης, Επιστημονικός Υπεύθυνος και Επικεφαλής Ομάδας Έργου	17:30 - 17:45	The DrinkAdria Project as a springboard for the interconnection of the Water Utilities Assoc. Prof. Vasilis Kanakoudis Scientific Coordinator and Project Manager, University of Thessaly
17:45 - 18:15	Κλίματική Αλλαγή και επιπτώσεις της στη διαθεσιμότητα και στην ποιότητα των αποθεμάτων των υδατικών πόρων Δρ. Σταυρούλα Τσιτσίφλη Πανεπιστήμιο Θεσσαλίας, Μέλος της Ομάδας Έργου	17:45 - 18:15	Climate Change and its impact on the availability and the quality of the water resources reserves Dr. Stavroula Tsitsifli University of Thessaly, Member of the Project Team
18:15 - 18:30	Η διαχείριση υδατικών πόρων στο νησί της Κέρκυρας Δρ. Μιχάλης Λαγκιάδης, Προϊστάμενος Διεύθυνσης Υδάτων Ιονίου, Αποκεντρωμένης Διοίκησης Πελοποννήσου, Δ. Ελλάδας και Ιονίων Νήσων (ΑΠΔΠΙ)	18:15 - 18:30	The Management of water resources on the island of Corfu Dr. Michalis Lagadas Head of the Water Division of the Ionian Islands Decentralized Administration of Peloponnese, West Greece and Ionian islands
18:30 - 19:00	Παρουσίαση των πλοοτικών προγραμμάτων του έργου Drinkadria Δρ. Σταυρούλα Τσιτσίφλη Πανεπιστήμιο Θεσσαλίας, Μέλος της Ομάδας Έργου	18:30 - 19:00	Presentation of DrinkAdria pilot cases Dr. Stavroula Tsitsifli University of Thessaly, Member of the Project Team
19:00 - 19:30	Στρογγυλό Τραπέζι	19:00 - 19:30	Round Table
19:30	Λήξη - Δείπνο	19:30	Close– Dinner



DRINK ADRIA



DRINKADRIA



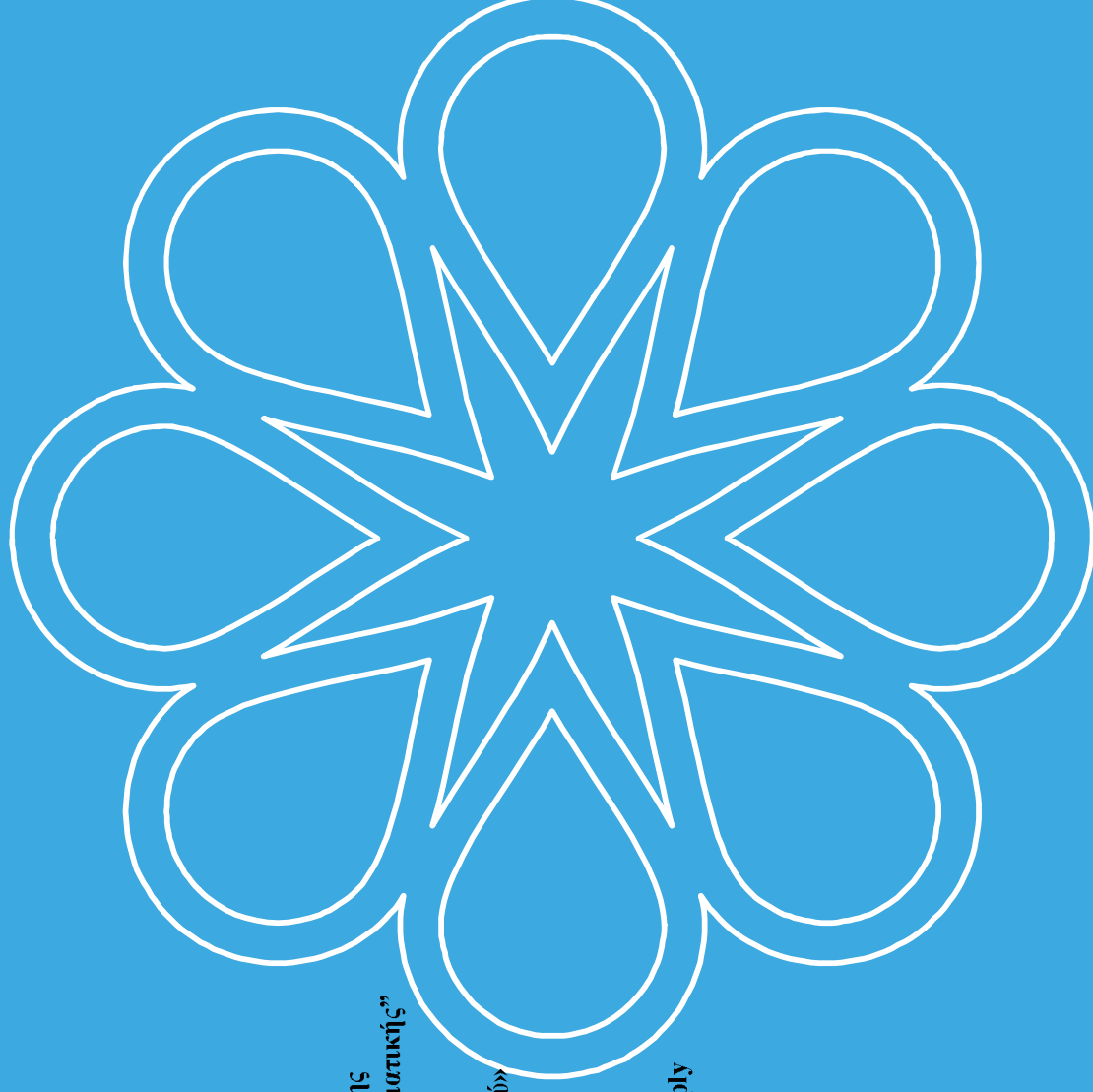
Περιφέρεια Ιονίων Νήσων



Πανεπιστήμιο Θεσσαλίας

“Διασποριακή Συνεργασία Διαχείρισης
Πόσιμου Νερού στην περιοχή της Αδριατικής”
Έργο DRINKADRIA
1^η Τεχνική Συνάντηση
«Διαχείριση Μη Ανταποδοτικού Νερού»
22 Σεπτεμβρίου 2015

“Networking for Drinking Water Supply
in the Adriatic Region”
DRINKADRIA Project
1st Technical Meeting
“Non Revenue Water”
22 September 2015



1^η Τεχνική Συνάντηση
«Διαχείριση Μη Ανταποδοτικού Νερού» -
Κέρκυρα 22.09.2015
1st Technical Meeting
“Non- Revenue Water” Corfu 22.09.2015

Στοιχεία επικοινωνίας τοπικού οργανιστικού
φορέα
Κούλα Κυριακί
Περιφέρεια Ιονίων Νήσων
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Φαξ: +30 26610 32525

Τόπος Διεξαγωγής Συνάντησης
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Τηλ.: +30 26610 28337
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ΣΥΝΑΝΤΗΣΗ ΣΤΗΝ ΚΕΡΚΥΡΑ – ΠΡΟΓΡΑΜΜΑ

1^η Τεχνική Συνάντηση «Διαχείριση Μη Ανταποδοτικού Νερού»

Κέρκυρα, Τρίτη 22 Σεπτεμβρίου 2015

08:30-09:00	Έναρξη – Δηλώσεις Συμμετοχής
09:00-09:45	Ολοκληρωμένη μεθοδολογία διαχείρισης δικτύων ύδρευσης και μείωσης του μη ανταποδοτικού νερού – Αναλύοντας το υδατικό ισοζύγιο ενός δικτύου ύδρευσης Δρ. Σταυρούλα Τσιτσιλί, Πανεπιστήμιο Θεσσαλίας, Μέλος της Ομάδας Έργου
09:45-10:30	Μοντελοποίηση δικτύων ύδρευσης, ανάπτυξη DMAs και εφαρμογή προγραμμάτων διαχείρισης πίεσης Κωνσταντίνος Γκονέλας, Πανεπιστήμιο Θεσσαλίας
10:30-11:00	Η εμπειρία της ΔΕΥΑ Κοζάνης Χάρης Κουζιάκης, Προϊστάμενος Γραφείου Μελετών & Εκτέλεσης Έργων Υδρευσης Αποχέτευσης ΔΕΥΑ Κοζάνης
11:00-11:30	Διάλειμμα για καφέ
11:30-12:00	Εύρεση του σημείου ισορροπίας της αποδοτικής και της ανταποδοτικής χρήσης του νερού σε ένα αστικό δίκτυο Αν. Καθηγητής Βασύλης Κανακούδης, Επιστημονικός Υπεύθυνος και Επικεφαλής Ομάδας Έργου Κωνσταντίνος Γκονέλας, Πανεπιστήμιο Θεσσαλίας
12:00-12:30	Δυνατότητες ανάκτησης ενέργειας στα δίκτυα ύδρευσης με χρήση μικρο-τουρμπινών Αν. Καθηγητής Βασύλης Κανακούδης, Επιστημονικός Υπεύθυνος και Επικεφαλής Ομάδας Έργου Μενέλαος Πατέλης, Πανεπιστήμιο Θεσσαλίας
12:30-13:30	Σπρωγγιλό Τραπεζί
13:30	Λήξη – Ελαφρό Γεύμα

MEETING VENUE IN CORFU – AGENDA

1st Technical Meeting “Non-Revenue Water”

Corfu, Tuesday 22 September 2015

08:30-09:00	Registration
09:00-09:45	Integrated Management of Water supply networks and reduction of non-revenue water – Analyzing the water balance of the water network Dr. Stavroula Tsitsili, University of Thessaly, Member of the Project Team
09:45-10:30	Modeling of the water supply networks, development of DMAs and appliance of programs for pressure management – Konstantinos Gonelas, University of Thessaly
10:30-11:00	The experience of the Municipal Water and Wastewater Utility of Kozani Charis Kouziaklis, Head of the Department of Studies and Implementation of Water and Sewage Works Municipal Water and Wastewater Utility of Kozani
11:00-11:30	Coffee Break
11:30-12:00	Finding the balance point of the effective and reciprocal use of water in an urban network Assoc. Prof. Vasilis Kanakoudis Scientific Coordinator and Project Manager Konstantinos Gonelas, University of Thessaly
12:00-12:30	Energy recovery opportunities in the water supply networks using micro-turbines – Assoc. Prof. Vasilis Kanakoudis, Scientific Coordinator and Project Manager Menelaos Patelis, University of Thessaly
12:30-13:30	Round table
13:30	Closure– Light Lunch



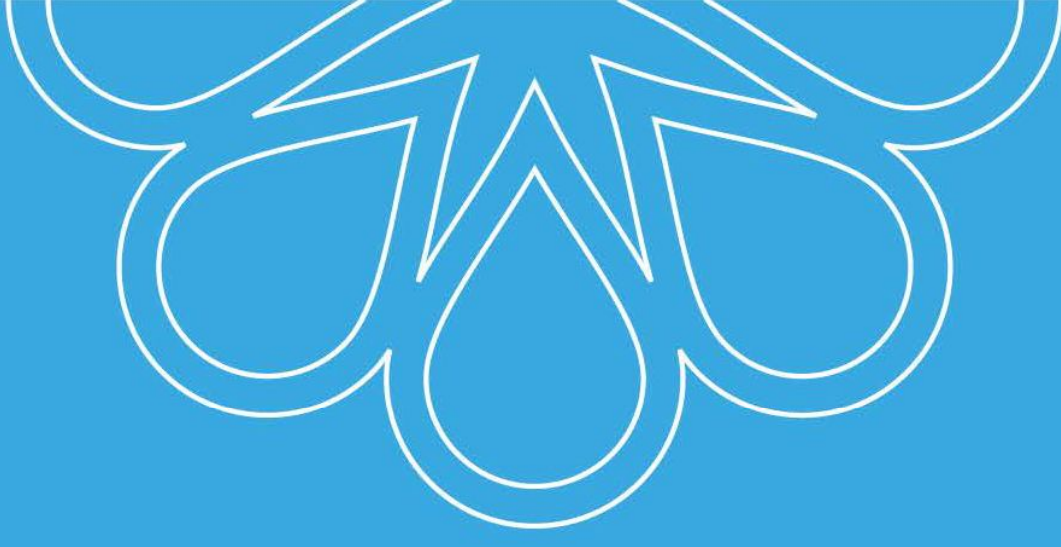
UNIVERSITY OF THESSALY

Κλιματική Αλλαγή και επιπτώσεις της στη διαθεσιμότητα και στην ποιότητα των υδατικών πόρων

Πανεπιστήμιο Θεσσαλίας, Ελλάδα

Συντονιστής: Αναπλ. Καθηγ. Βασίλης Κανακούδης

Κέρκυρα, 21 Σεπτεμβρίου 2015

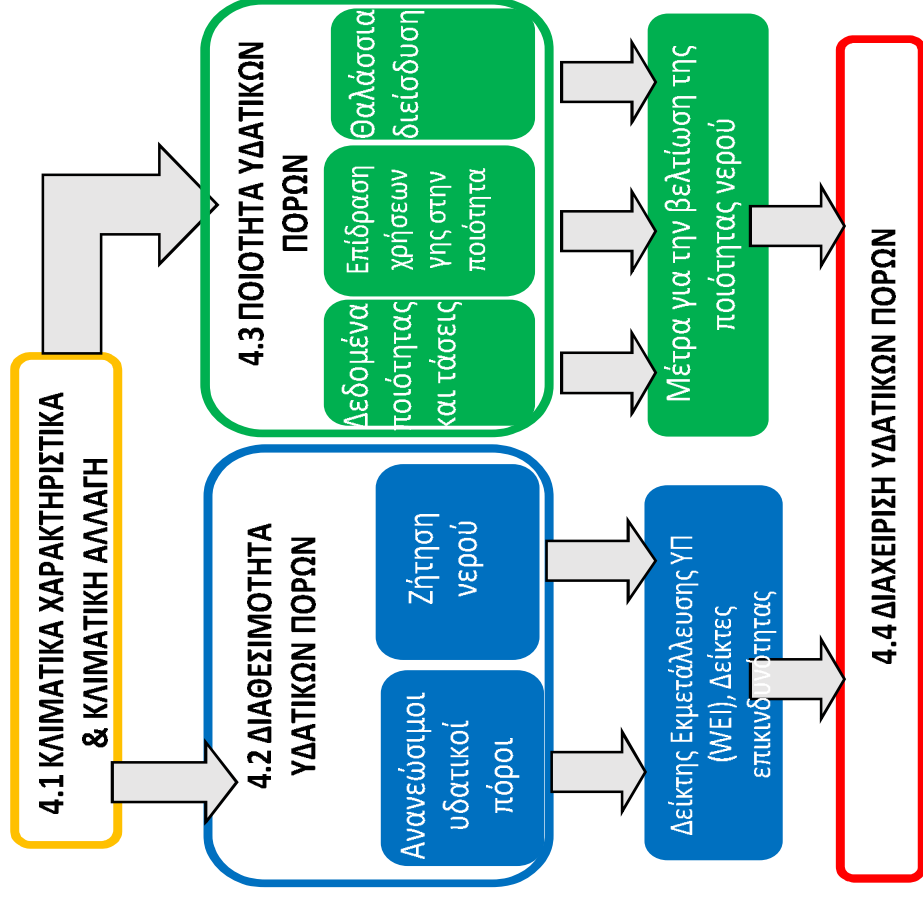


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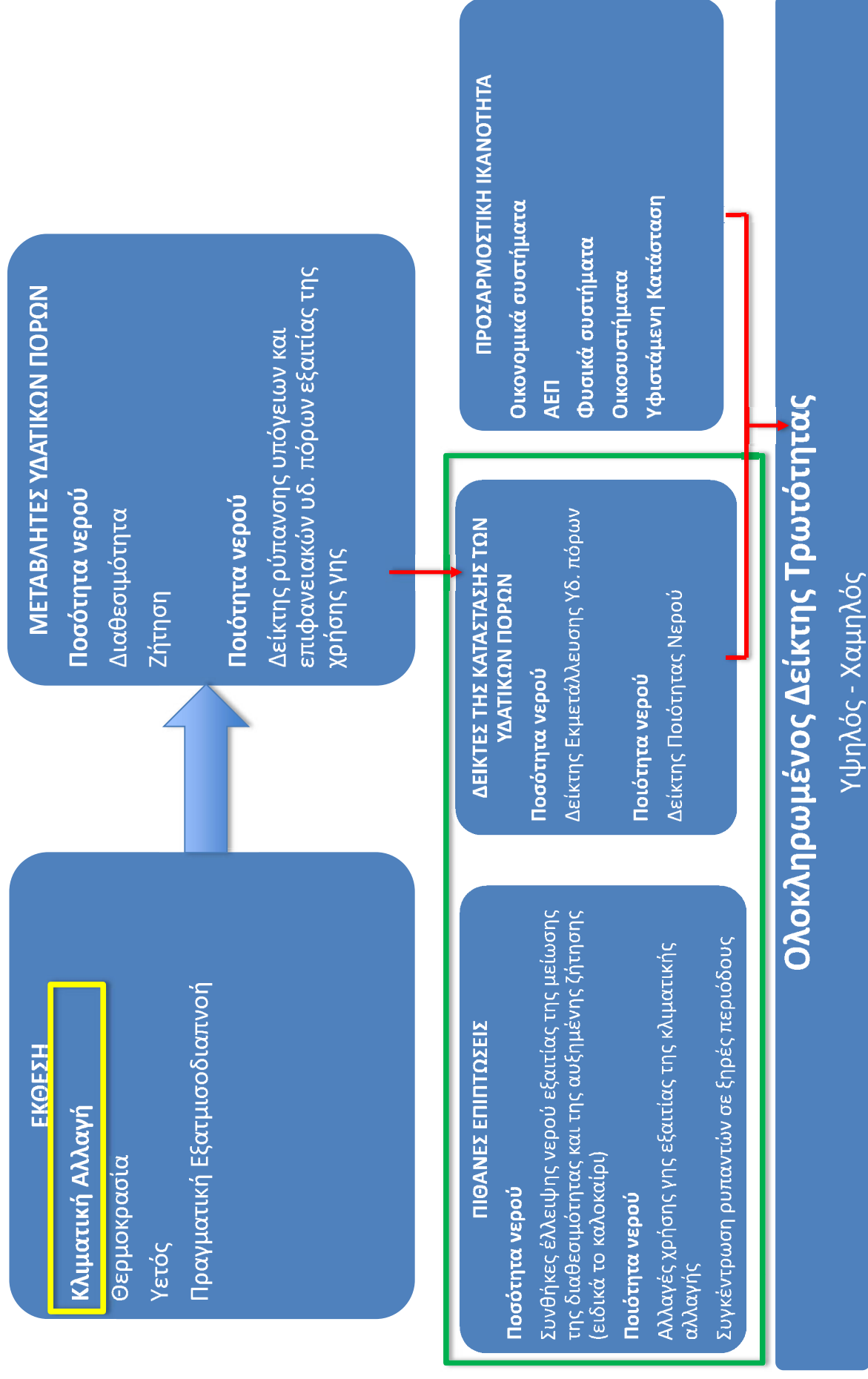
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Διαχείριση Διασυνοριακών Υδατικών Πόρων

- Ανάπτυξη μιας βάσης κλιματικών δεδομένων και δεδομένων κλιματικής αλλαγής
- Προσδιορισμός των υφιστάμενων και μελλοντικών κινδύνων για την διαθεσιμότητα των υδατικών πόρων με έμφαση στην ύδρευση
- Καθορισμός των αιτιών για την υποβάθμιση της ποιότητας του πόσιμου νερού
- Ανάπτυξη οδηγιών και πρωτοκόλλων για την προστασία και την διαχείριση των διασυνοριακών υδατικών πόρων.



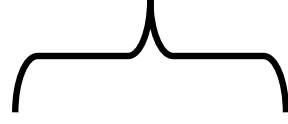
Τρωτότητα Υδατικών Πόρων



Κλίμα και Κλιματική Αλλαγή

Κλίμα: Αποτελεί τον κύριο παράγοντα που επηρεάζει τους Υδατικούς Πόρους

- Ατμοσφαιρική κατακρήμνιση
- Θερμοκρασία
- Εξατμισοδιαπνοή



Παράμετροι για την αξιολόγηση και πρόβλεψη της διαθεσιμότητας νερού

Κλιματική Αλλαγή:

- Σενάριο A1B
- Κλιματικά μοντέλα: ICTP-RegCM3, CNRM-Aladin, UCLM-Promes
- Χωρική ανάλυση: ~25 km
- Χρονική ανάλυση: εποχή
- Χρονικά διαστήματα: **1961-1990, 1991-2020 (σημερινό), 2021-2050 (μελλοντικό)**

Σενάριο A1: πολύ γρήγορη οικονομική ανάπτυξη, αύξηση του παγκόσμιου πληθυσμού με αποκορύφωμα στα μέσα του αιώνα και μείωση μετά, γρήγορη εισαγωγή νέων και πιο αποδοτικών τεχνολογιών. Σύγκλιση μεταξύ των περιφερειών, ενίσχυση ικανοτήτων και αυξημένες πολιτιστικές και κοινωνικές αλληλεπιδράσεις και σημαντική μείωση στις περιφερειακές διαφορές του εισοδήματος ανά κάτοικο.

Σενάριο A1B: ισορροπία μεταξύ των ενεργειακών πηγών

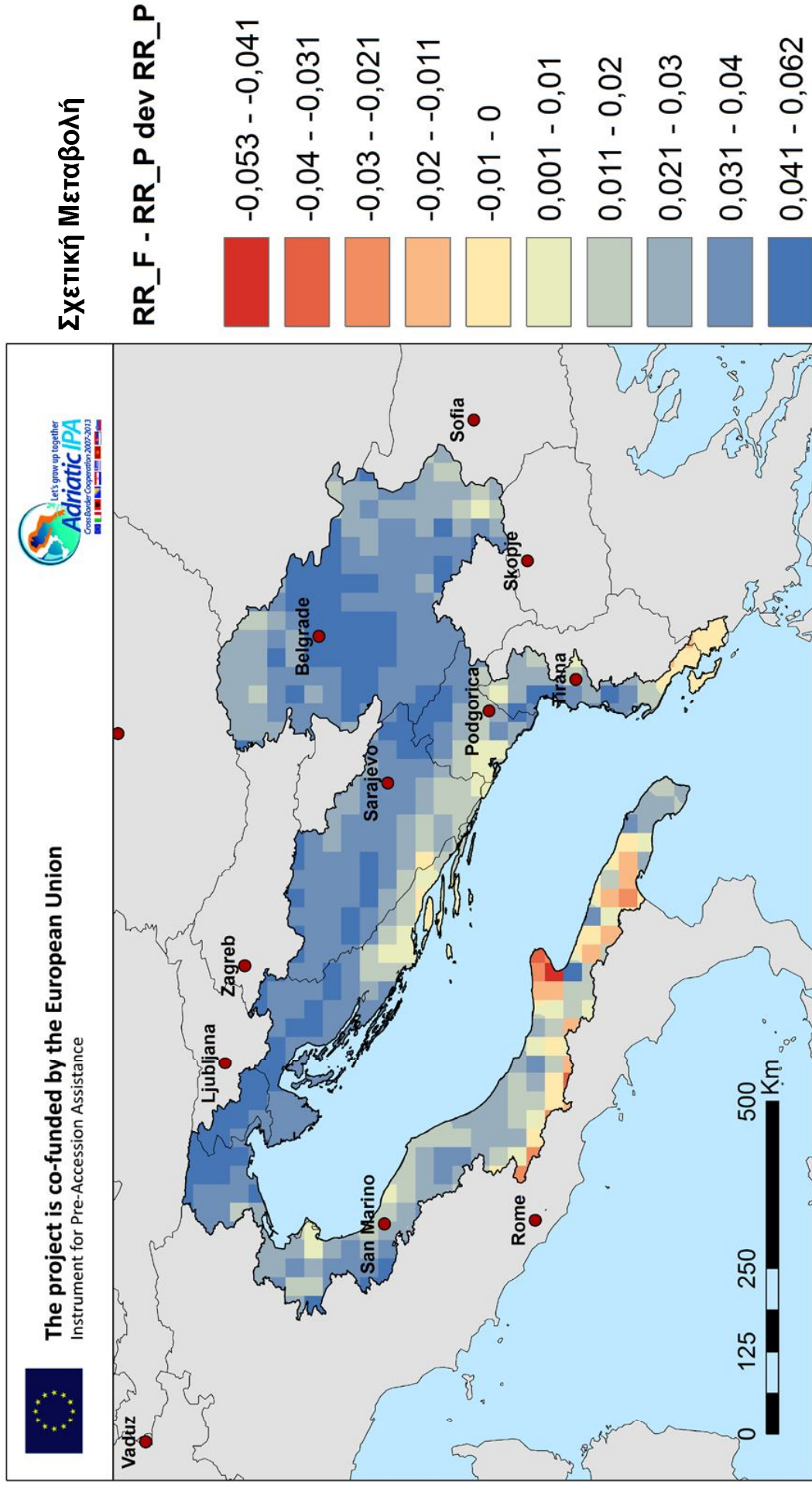


DRINKADRIA – FB15 & FB16 1st Capitalization Meeting – Κέρκυρα 21.09.2015

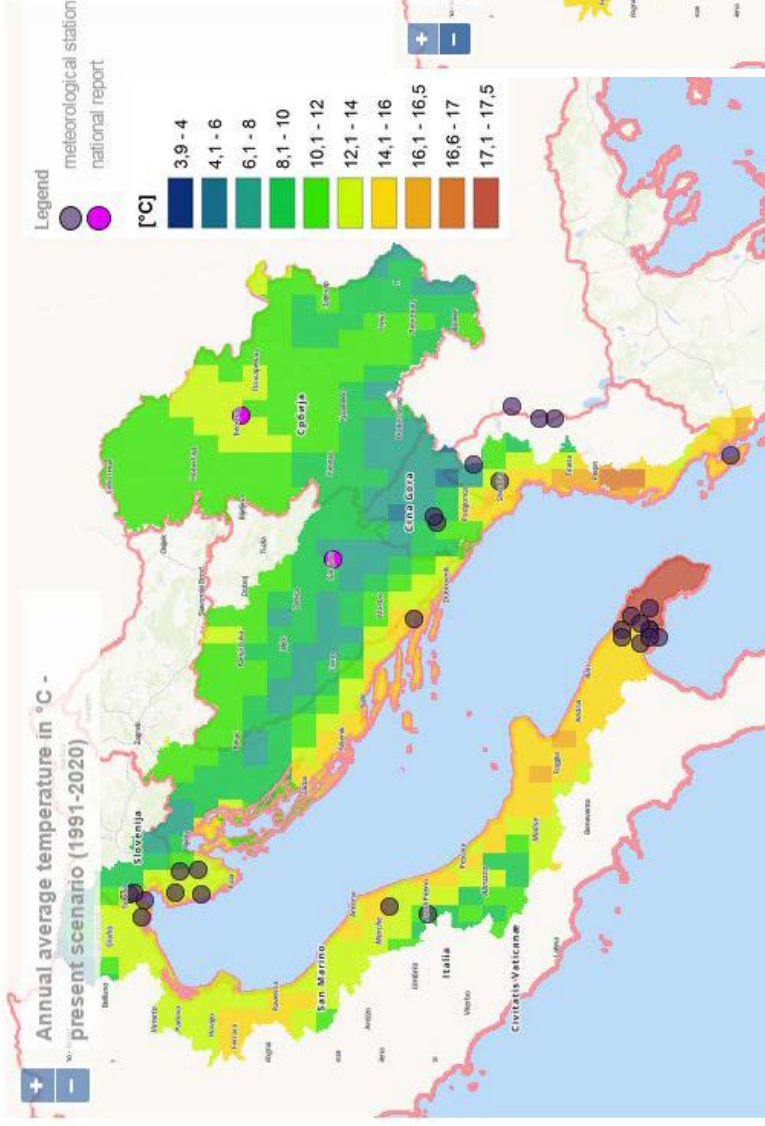


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Κλιματική Αλλαγή - Βροχόπτωση

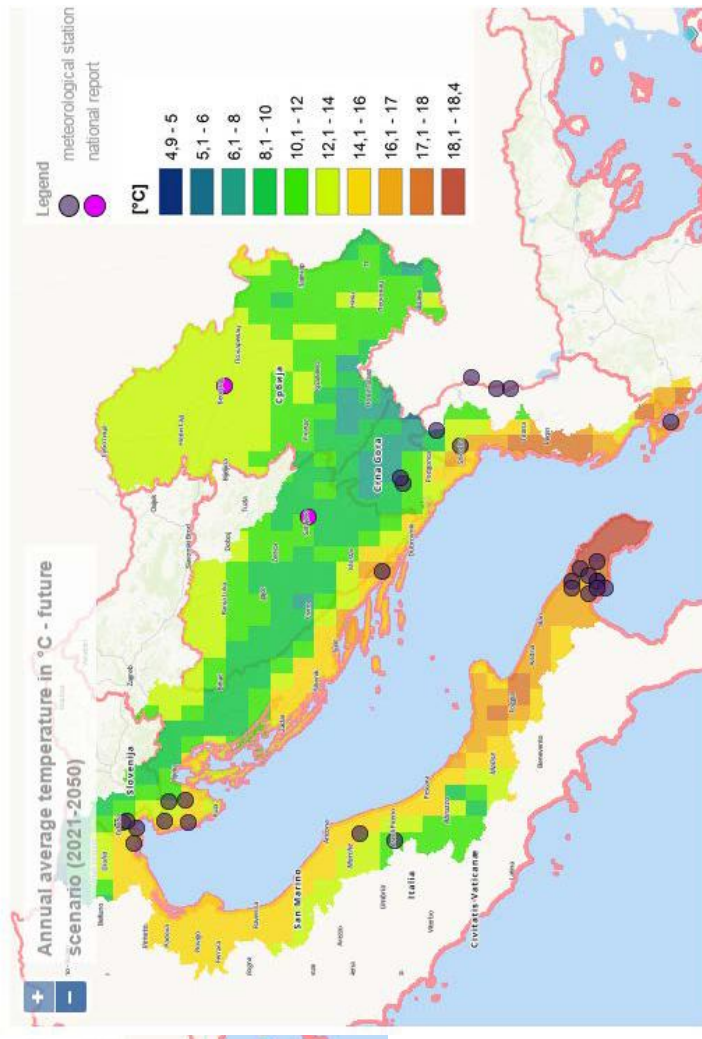


Κλιματική Αλλαγή - Θερμοκρασία

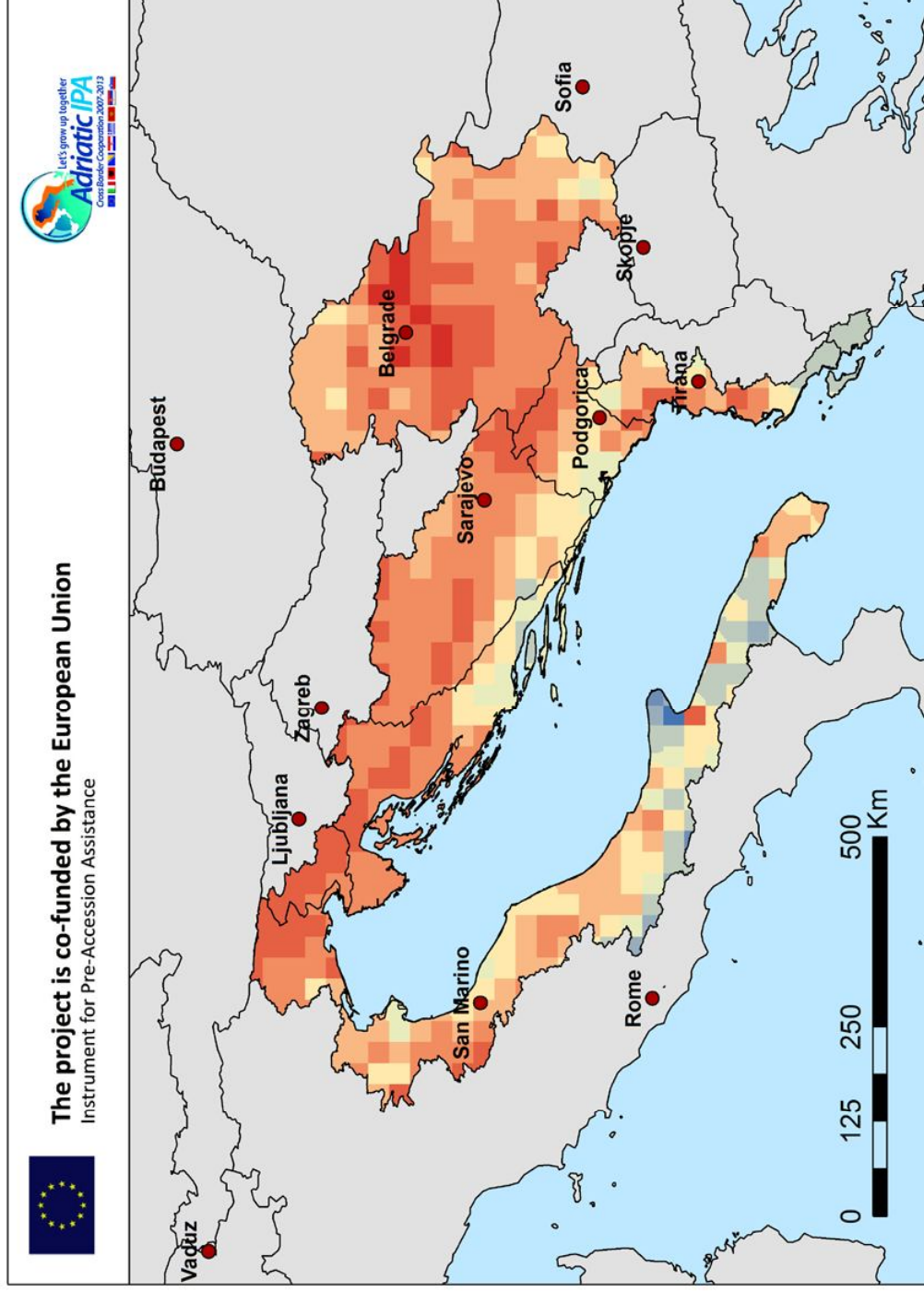


Υφιστάμενη κατάσταση
1990-2020

Μελλοντικό σενάριο
2021-2050



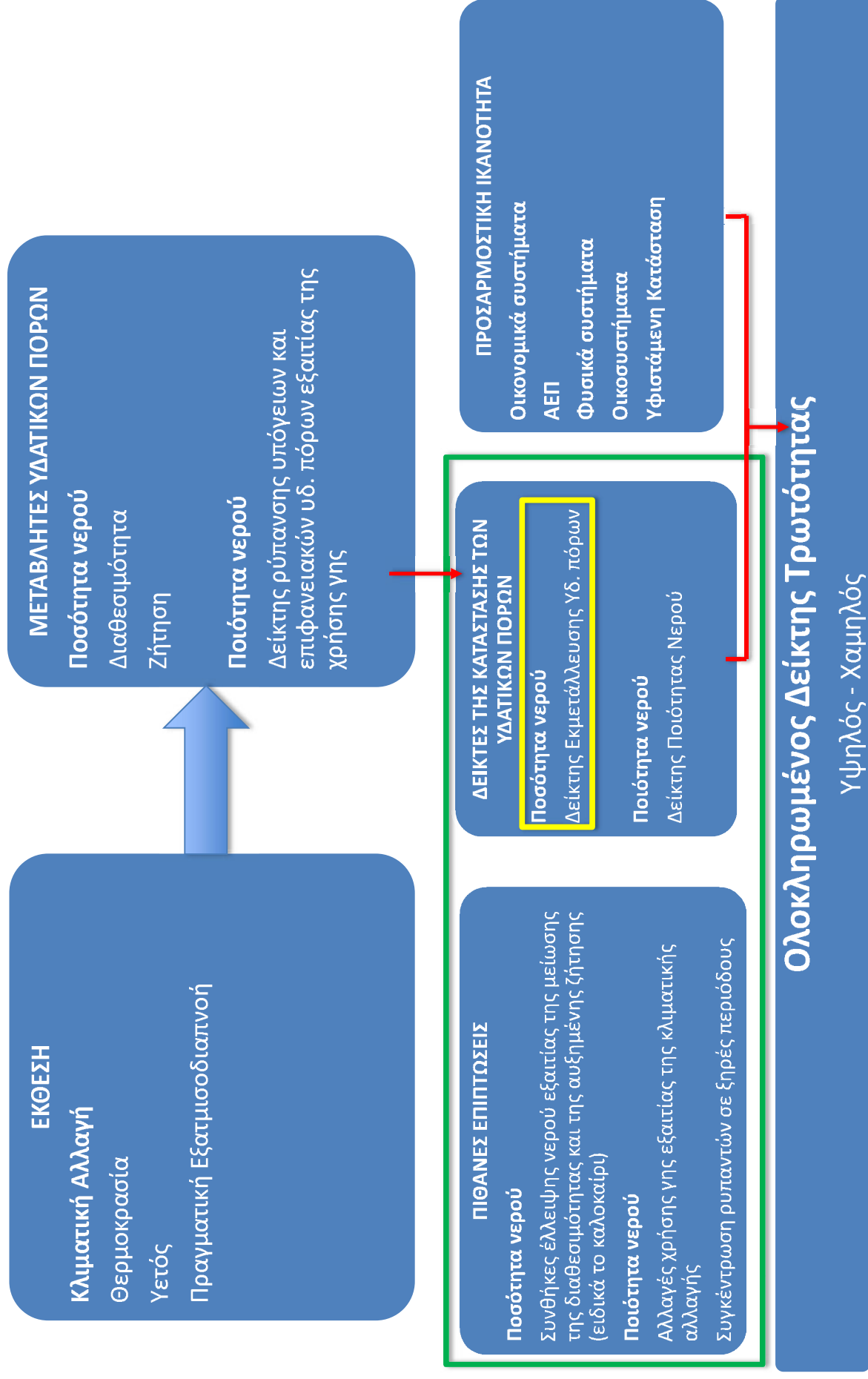
Κλιματική Αλλαγή - Εξατμισοδιαπνοή



Remark: AET was assessed applying the Budyko approach on a 25 km grid utilizing long term annual values of precipitation and potential evapotranspiration.



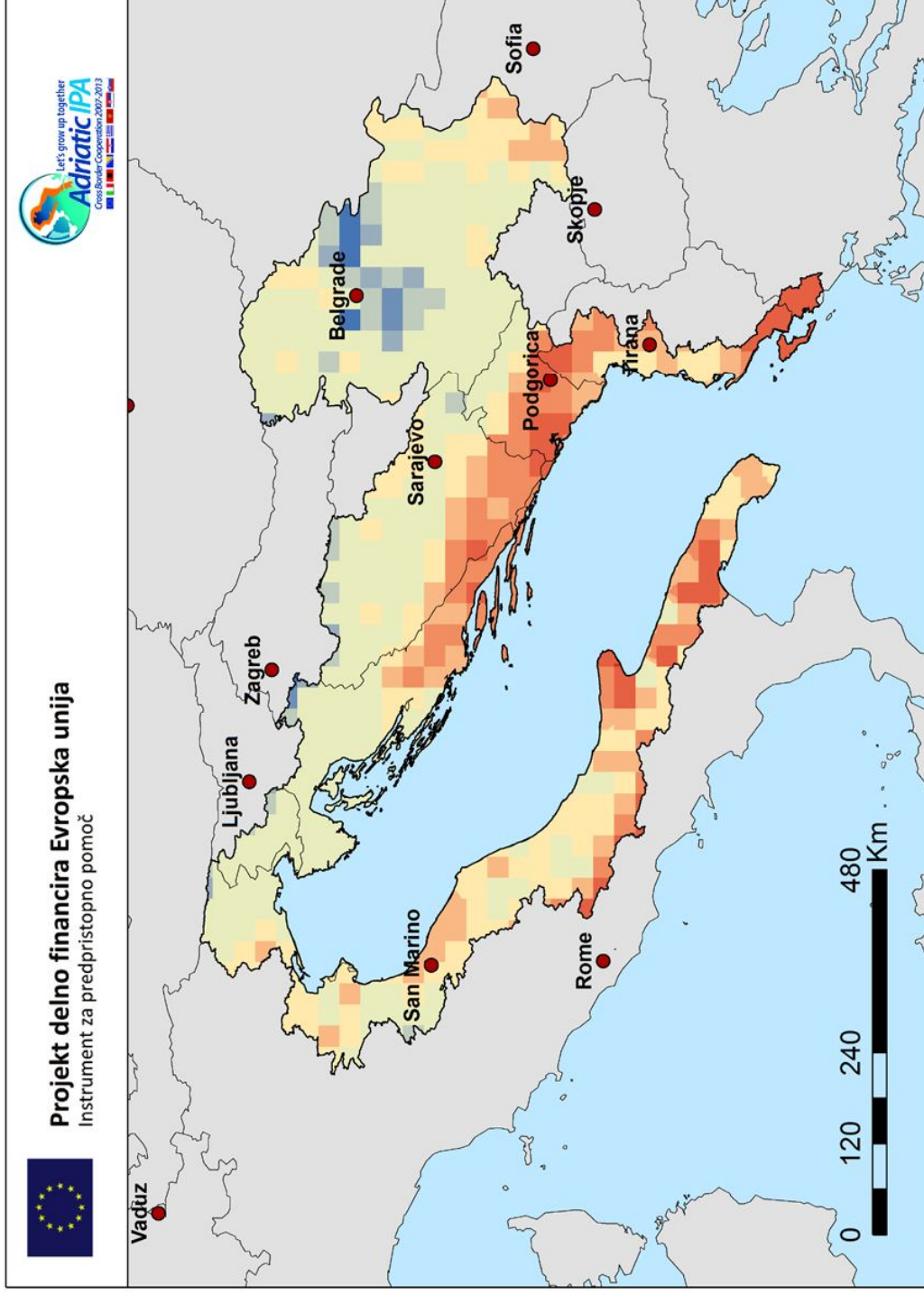
Ποσοτική Κατάσταση Υδατικών Πόρων



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Ποσότητα νερού - Διαθεσιμότητα



Remark: Total runoff is calculated on a 25 km grid scale without considering inflow and outflow. AET was assessed applying the Budyko approach on a 25 km grid utilizing long term annual values of precipitation and potential evapotranspiration.

Ποσότητα νερού - Ζήτηση

$$WD = WDd + WDa + WDi$$

$$\text{mm/yr} = (\text{l/m}^2)/\text{yr}$$

NUTS3

Σενάρια

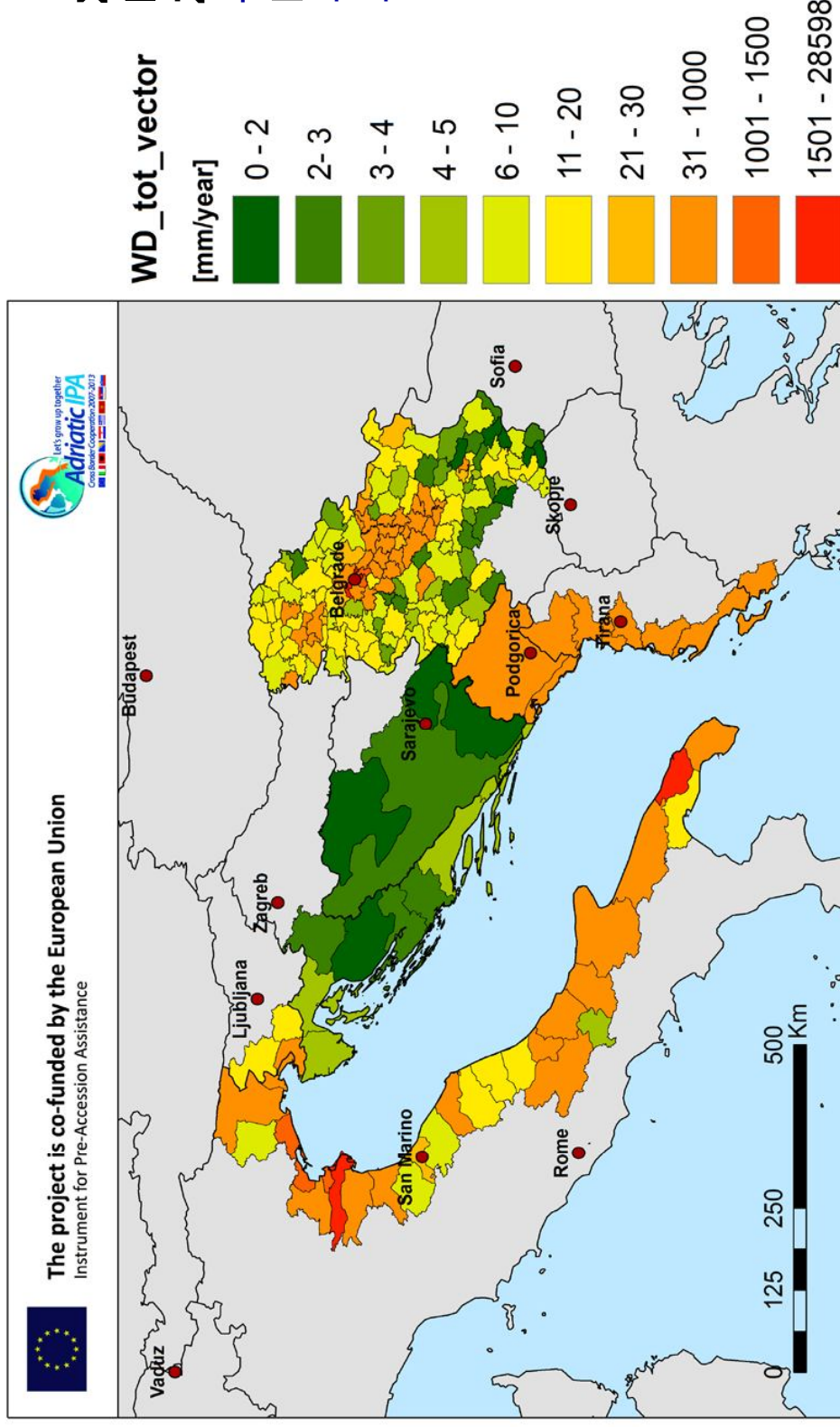
Μελλοντική μεταβολή
Ζήτησης νερού:

-10%

Καμία μεταβολή

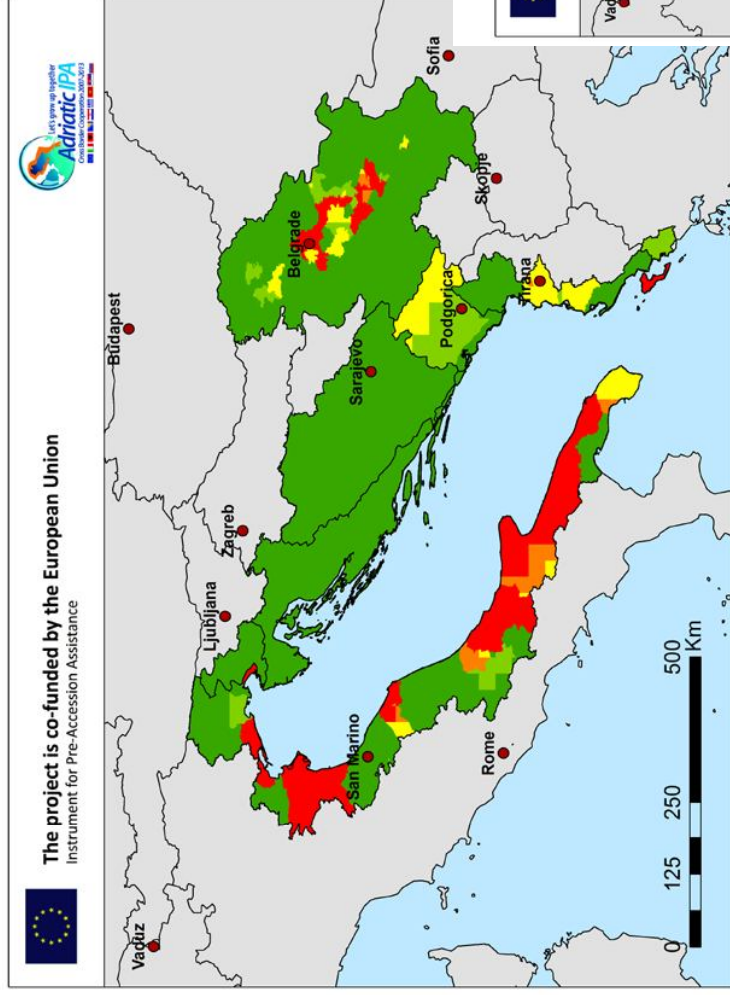
+10%

+25%



Remark: Water demand data are downscaled from available level of information to the grid scale.

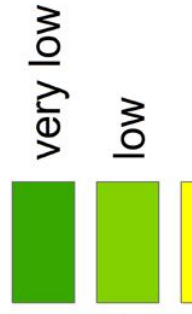
Ποσότητα νερού – Δείκτης Εκμετάλλευσης (ετήσια)



1991-2010

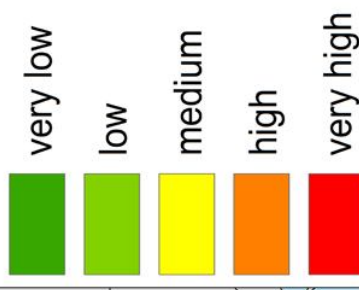
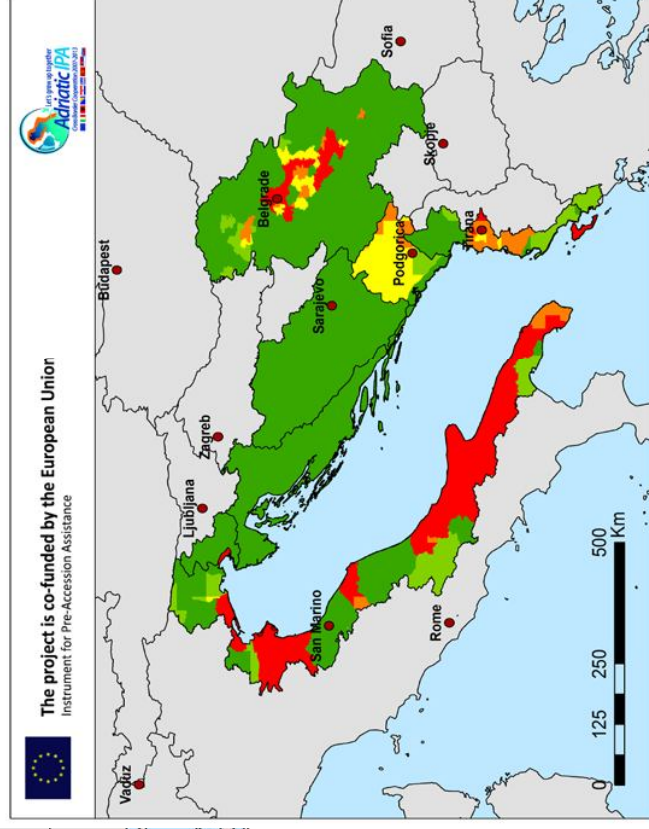
LWEI_A_P

$$WEI = \frac{WD}{WA}$$



2021-2050
WD +25%

LWEI_A_F_+25%



< 0.2 πολύ χαμηλή πίεση / τρωτότητα
0.2 – 0.4 χαμηλή πίεση
0.4 – 0.6 μέτρια πίεση
0.6 – 0.8 υψηλή πίεση
> 0.8 πολύ υψηλή πίεση



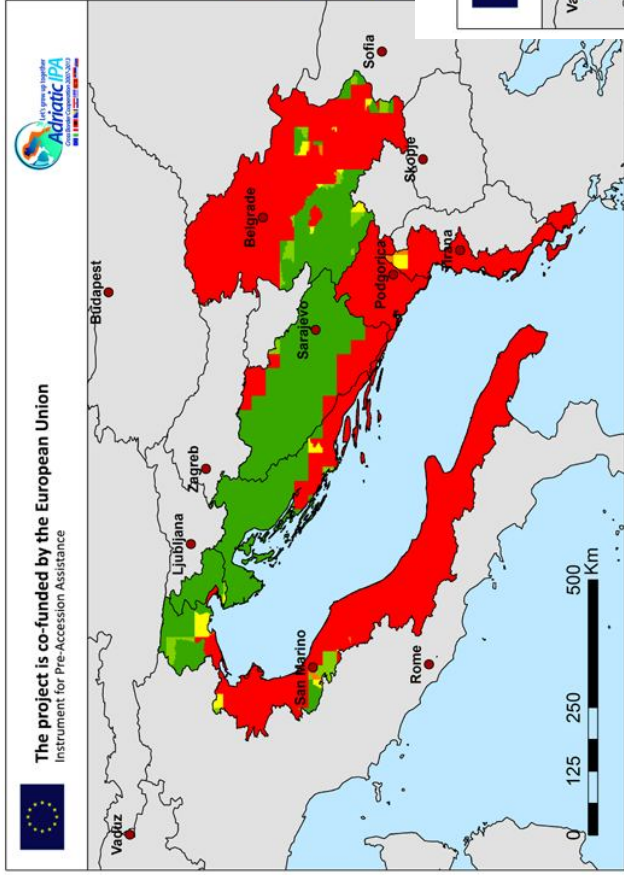
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DRINKADRIA – FB15 & FB16 1st Capitalization Meeting – Κέρκυρα 21.09.2015

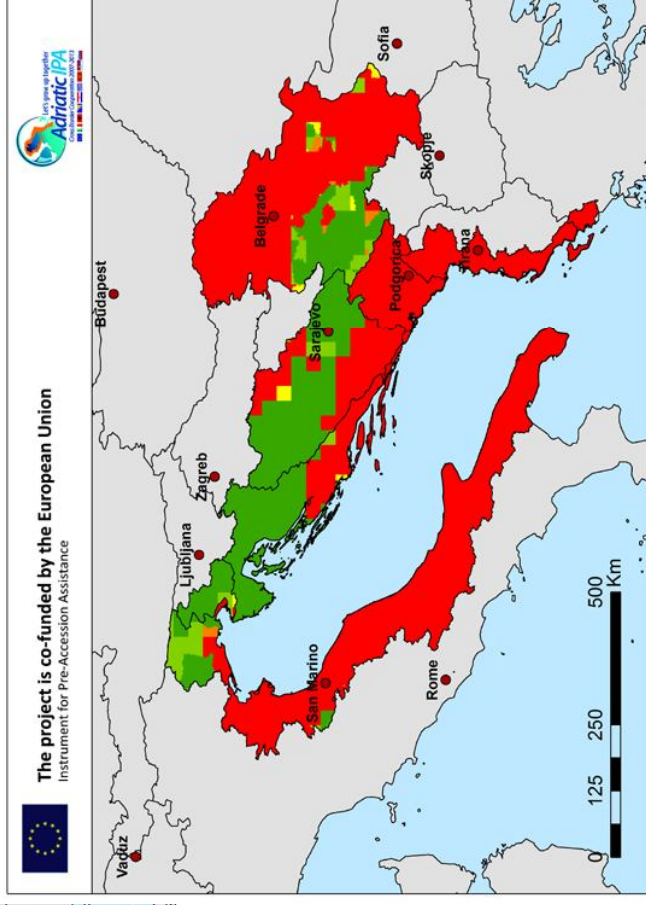
Ποσότητα νερού – Δείκτης Εκμετάλλευσης (καλοκαίρι)



$$WEI_s = \frac{WD_s}{WA_s}$$

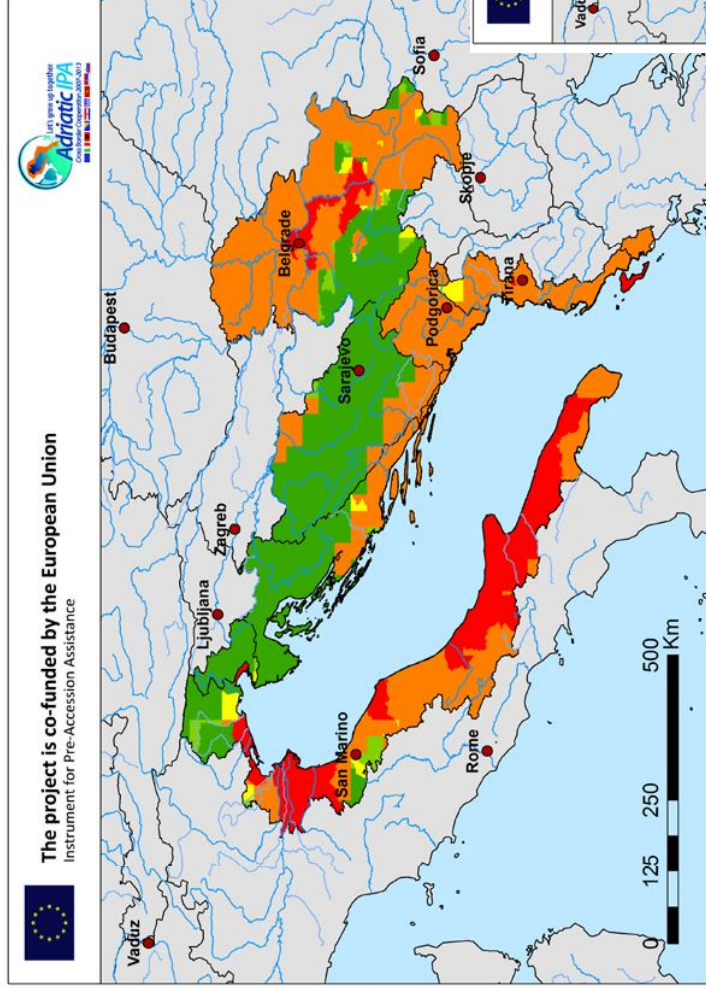
$$WD_s = WDd_s + WDa + WDi_s$$

Απρίλιος - Σεπτέμβριος

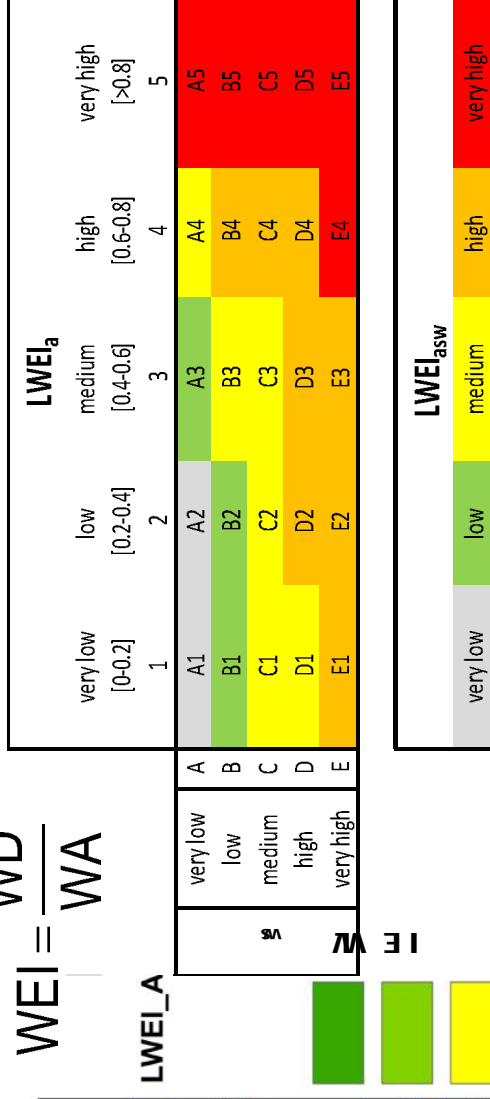


Ποσότητα νερού – Δείκτης Εκμετάλλευσης ετήσια διόρθωση για εποχικότητα

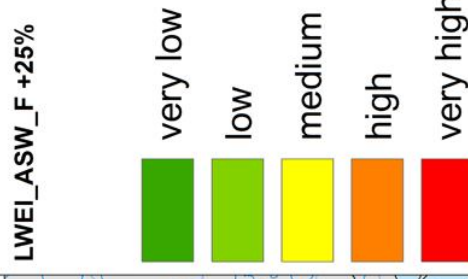
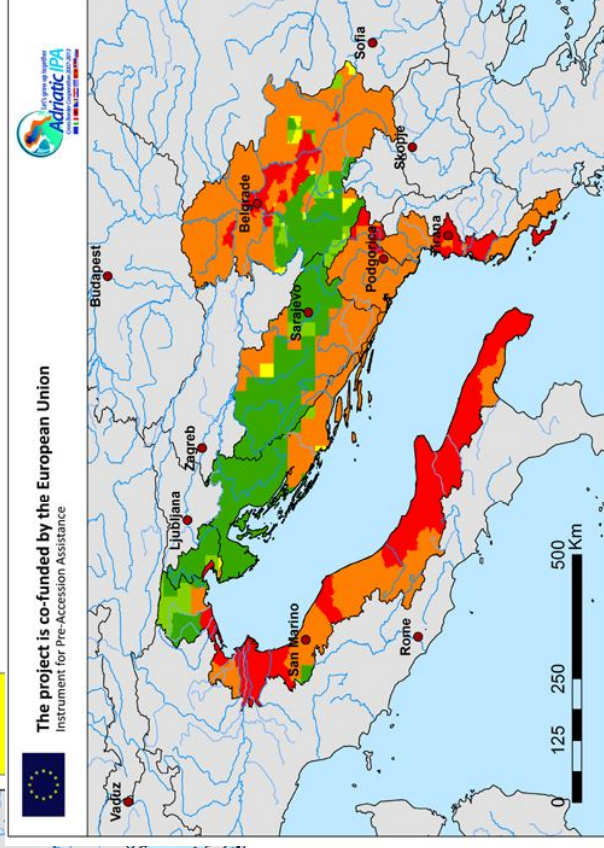
$$WEI = \frac{WD}{WA}$$



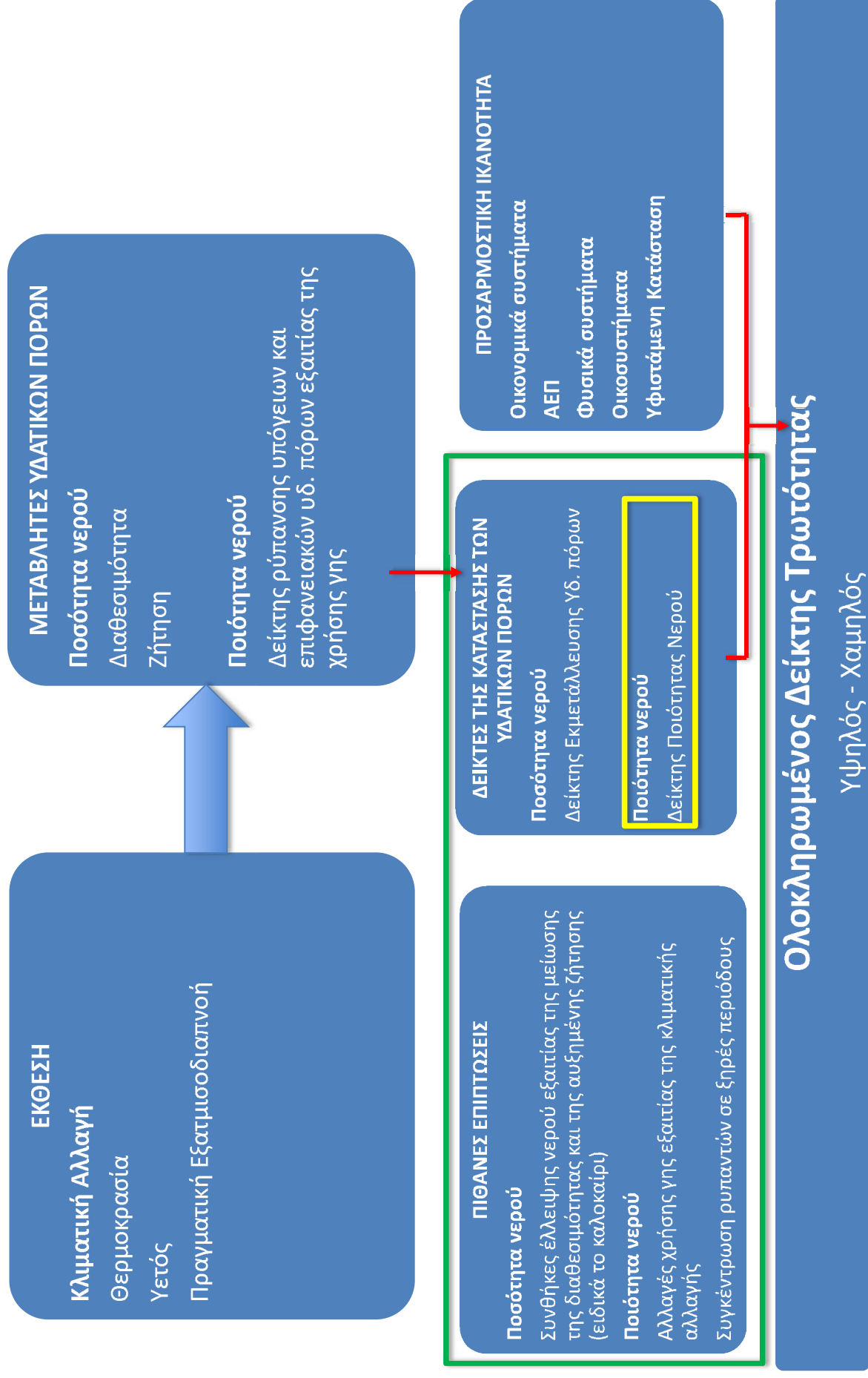
ΠΑΡΟΝ 1991-2010



ΜΕΛΛΟΝ
2021-2050
WD +25%



Ποιοτική Κατάσταση Υδατικών Πόρων



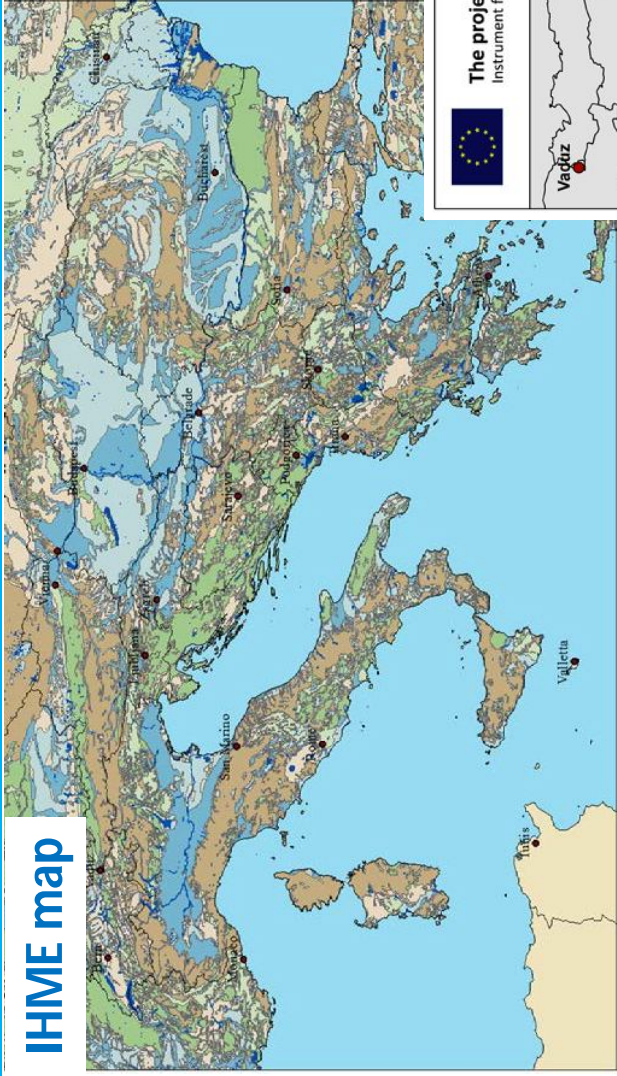
Ποιότητα νερού – Επιπτώσεις των χρήσεων γης

- Υπάρχει ισχυρή σχέση μεταξύ των χρήσεων γης και του συνολικού ρυπαντικού φορτίου των υδατικών πόρων
- Βιβλιογραφική ανασκόπηση του ρυπαντικού φορτίου σαν συνάρτηση των χρήσεων γης
 - Εστίαση στις τεχνητές επιφάνειες, την γεωργία και την δασοκομία
 - Υπόθεση συμμόρφωσης με τις Οδηγίες για την επεξεργασία Αστικών Λυμάτων και την προστασία των υδάτων από την Νιτρορύπανση το 2050
 - Εξαγωγή συντελεστών για το Συνολικό Άζωτο που θεσπίζεται ως το ρυπαντικό φορτίο που αντανακλά το συνολικό ρυπαντικό φορτίο

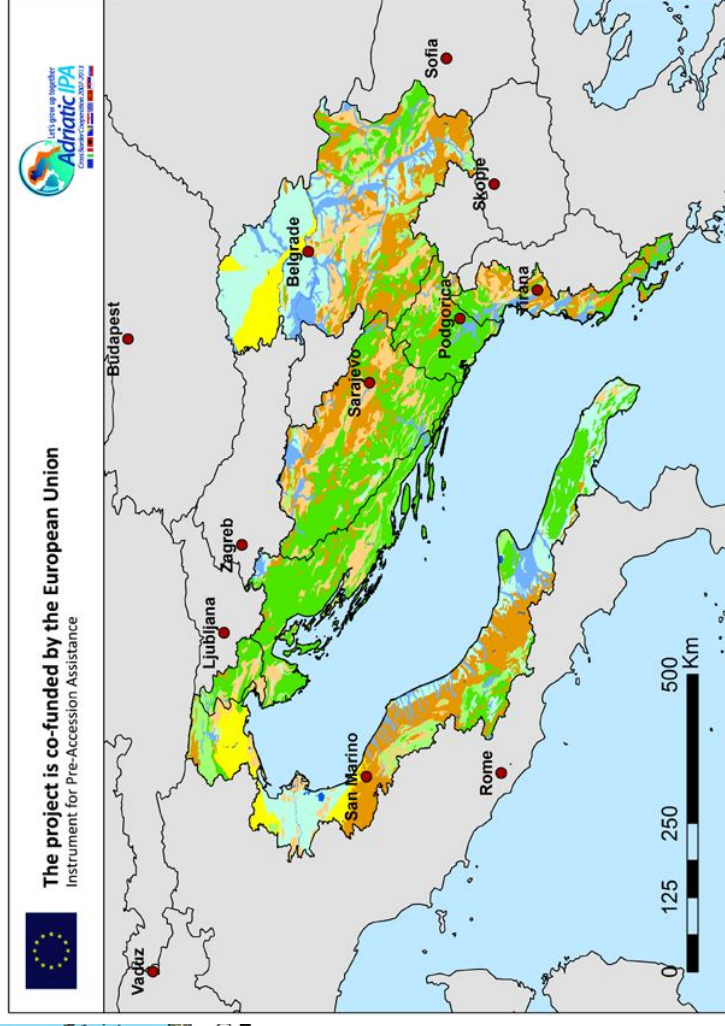
ΔΕΙΚΤΕΣ	ΣΥΜΒΟΛΟ	ΜΟΝΑΔΕΣ	ΠΗΓΕΣ ΔΕΔΟΜΕΝΩΝ & ΤΥΠΟΙ ΥΠΟΛΟΓΙΣΜΟΥ
Συντελεστές φορτίου χρήσης γης	LUSLI	Αδιάστατος	Συντελεστές φορτίου χρήσης γης για συγκεκριμένες χρήσεις γης - βιβλιογραφία
Δείκτης ρυπαντικού φορτίου	PLI		Κανονικοποιημένος LUSLI
Δείκτης Ποιότητας Νερού SW (επιφανειακού)	WQI_{SW}		(PLI_j · CLC AREA_j) και κανονικοποιημένος από 0 έως 1
Παράγοντας HG	HG		Παράγοντας HG σύμφωνα με τις κατηγορίες του χάρτη IHME
Δείκτης Ποιότητας Νερού GW (υπόγειου)	WQI_{GW}		(WQI_{SW} · HG) και κανονικοποιημένος από 0 έως 1



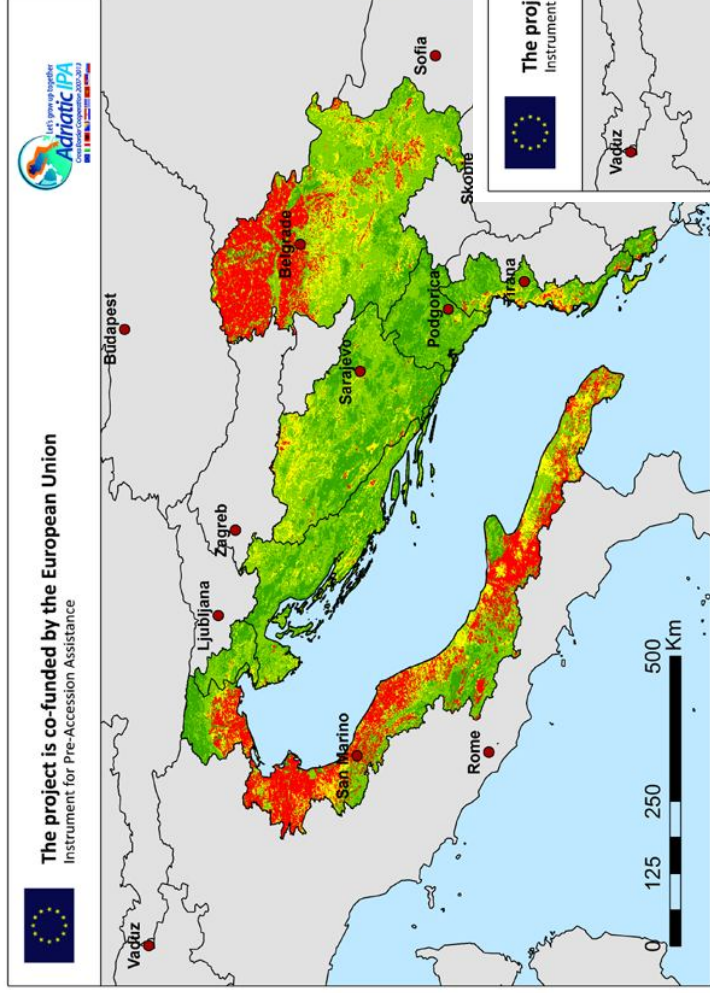
Ποιότητα νερού – Υπόγειοι Υδατικοί Πόροι



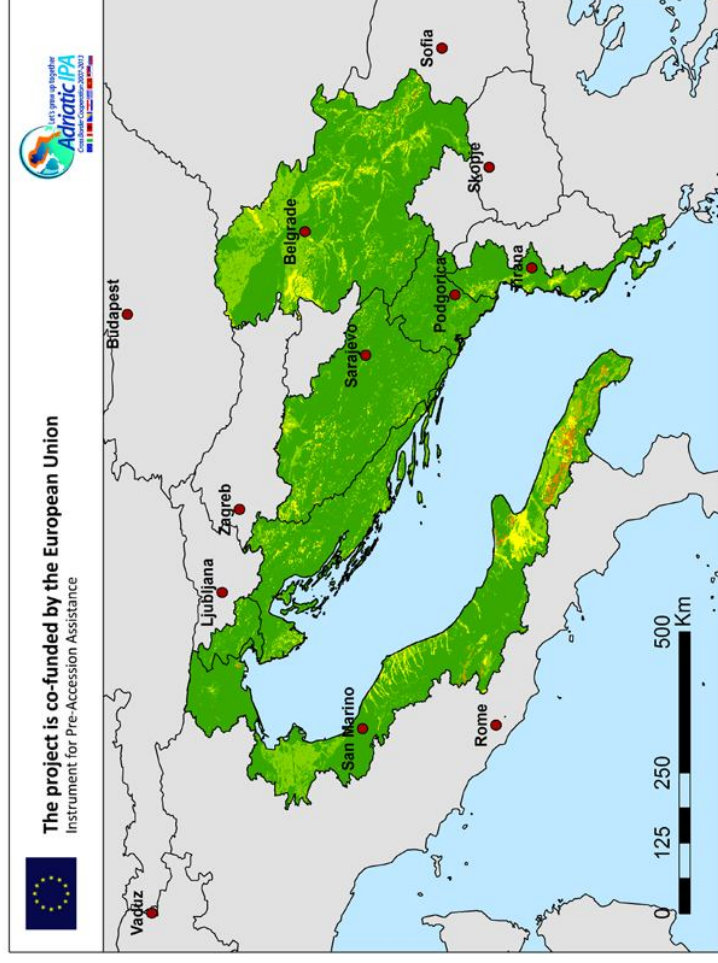
Τρωτότητα Υδροφορέα
 → Συντελεστής διόρθωσης που
 αφορά στην τρωτότητα του
 υδροφορέα και την επαναπλήρωση
 των υπόγειων υδάτων



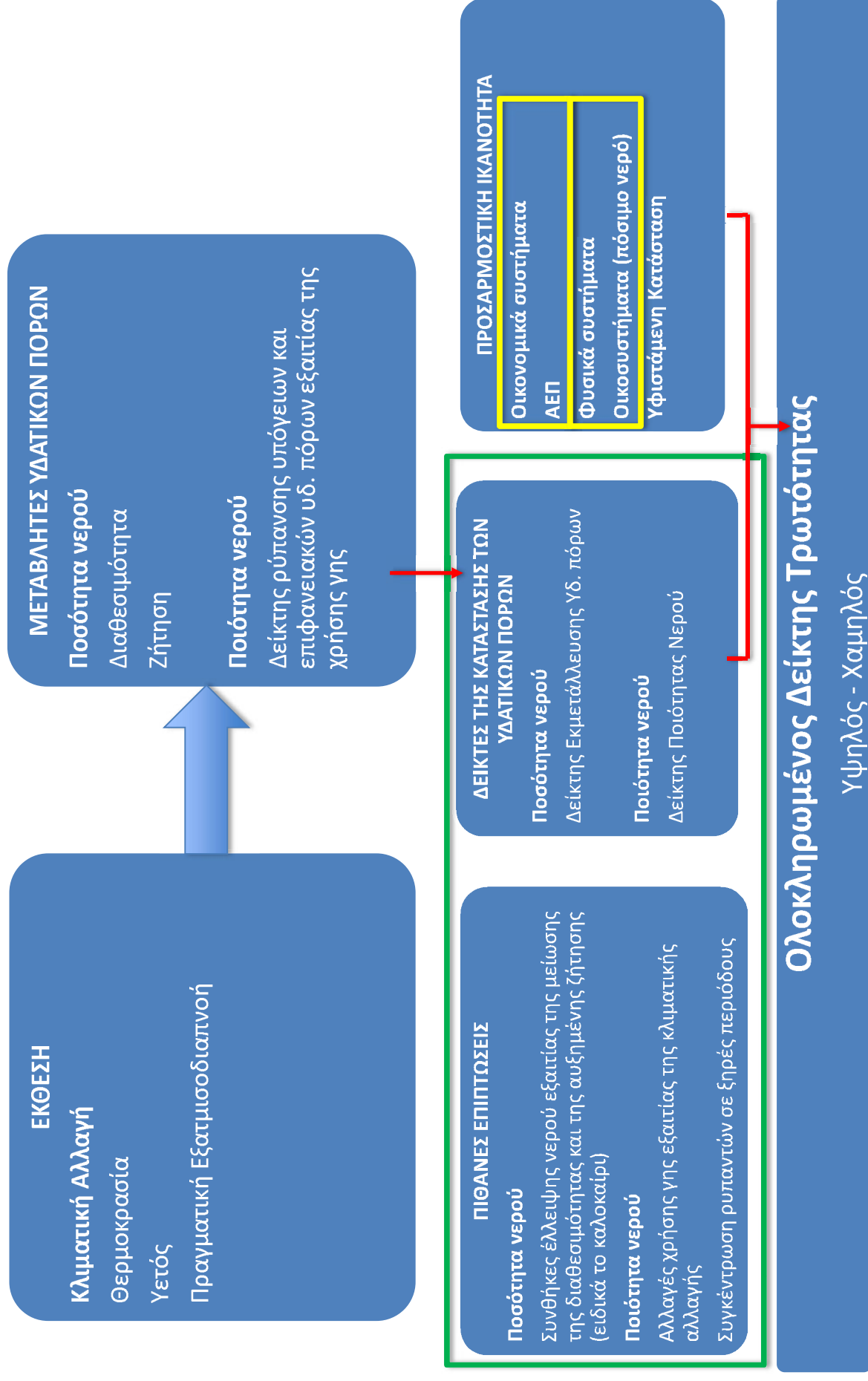
Ποιότητα Νερού



Επιφανειακά νερά



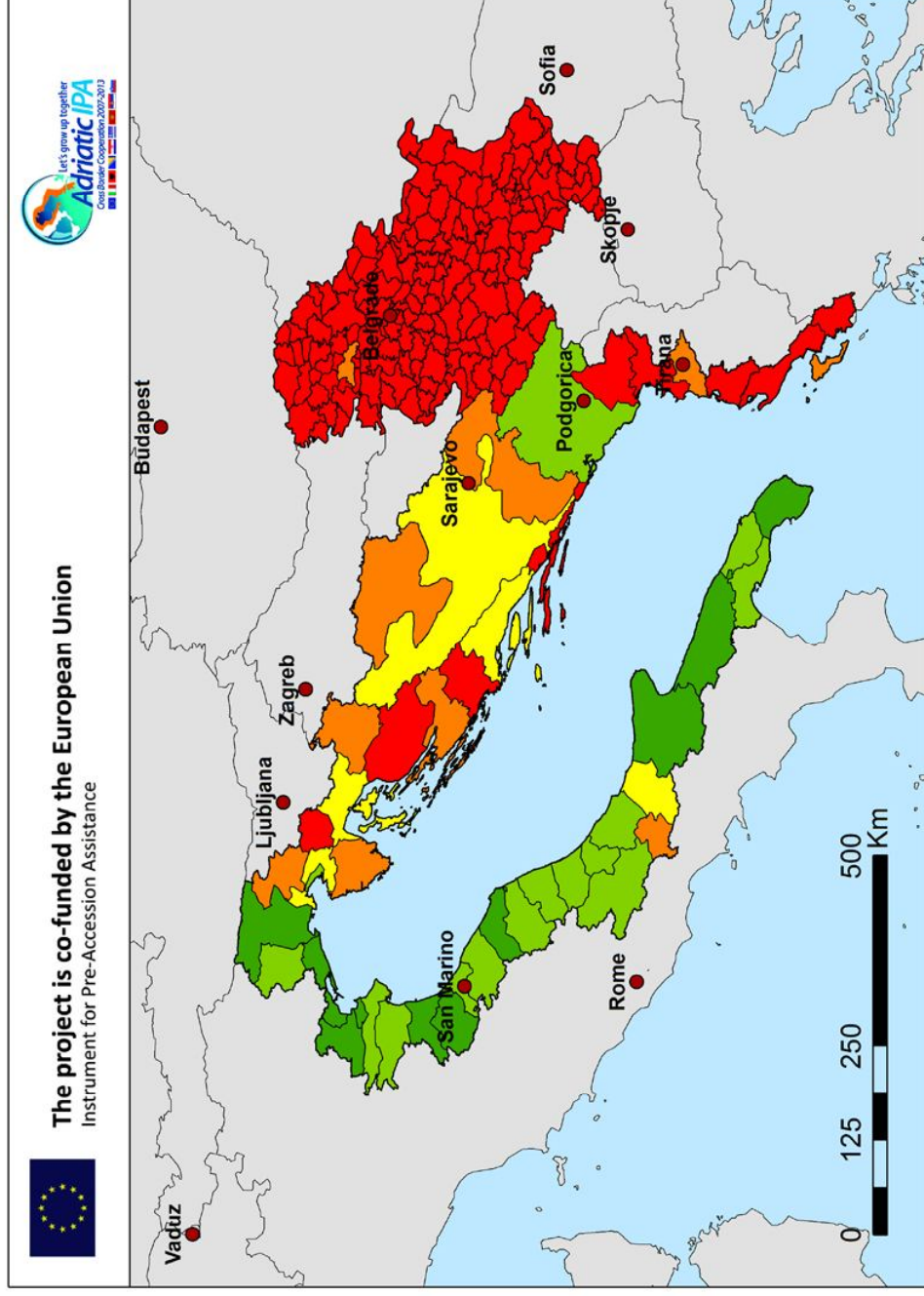
Ποιοτική Κατάσταση Υδατικών Πόρων



DRINKADRIA



ΑΕΠ



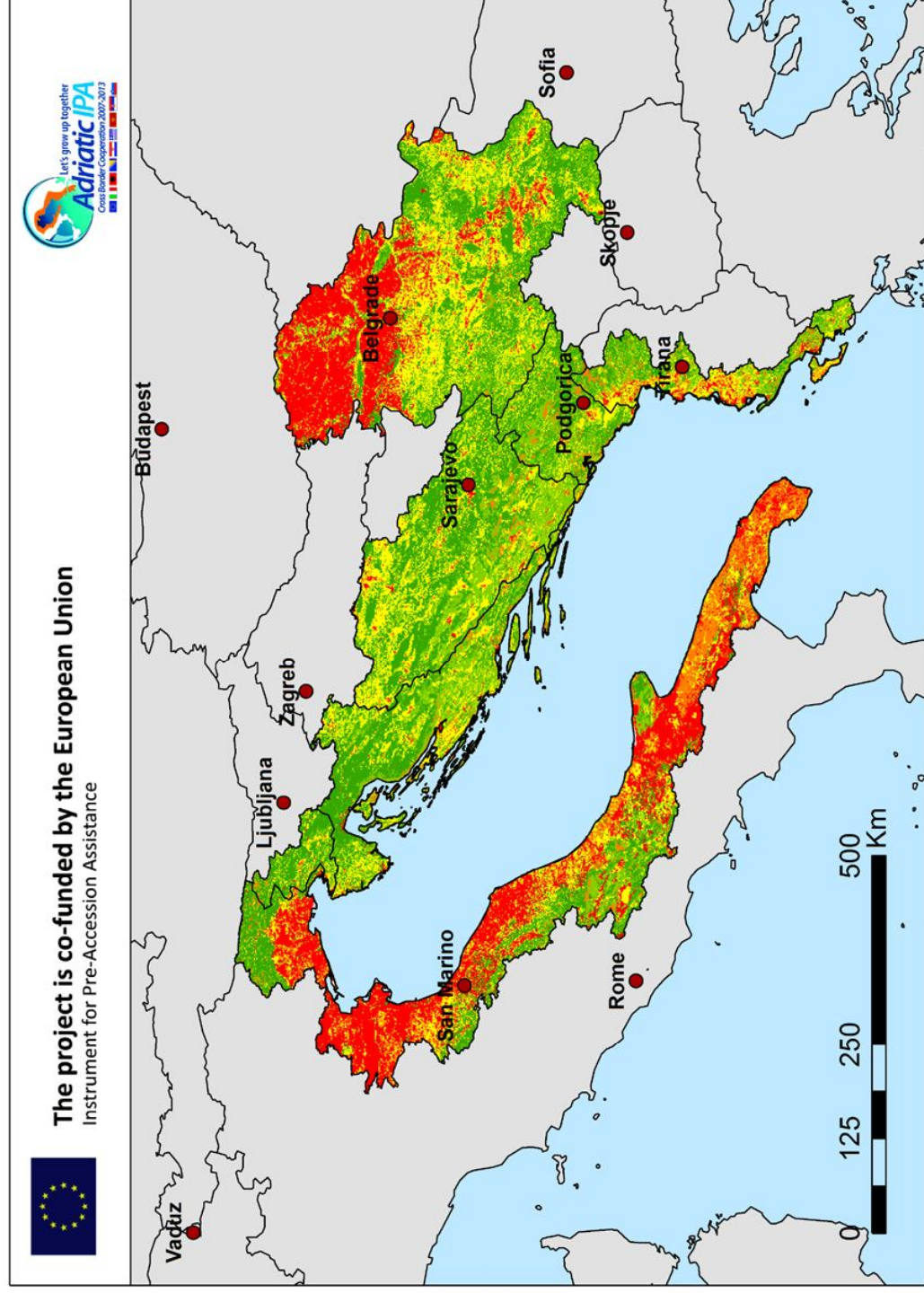
Οικοσυστήματα

- Ισχυρή σχέση μεταξύ των χρήσεων γης και των οικοσυστημάτων ιδιαίτερης σημασίας για την παροχή νερού
- Βιβλιογραφική ανασκόπηση για τα οικοσυστήματα και την παροχή νερού
 - Οικοσυστήματα ιδιαίτερης σημασίας για την παροχή νερού
 - Χρήσεις γης και οικοσυστήματα ιδιαίτερης σημασίας για την παροχή νερού
- Αξιολόγηση της σχετικής σημασίας των οικοσυστημάτων για ένα συγκεκριμένο τμήμα γης σαν συνάρτηση των χρήσεων γης (βιβλιογραφία & αξιολόγηση από ειδικούς)
- Αξιολόγηση της συνολικής αξίας των οικοσυστημάτων για την παροχή νερού σαν συνάρτηση των χρήσεων γης (Σύνολο αξίας: παροχή νερού, κανονισμοί, κανονισμοί για ποιότητα νερού)

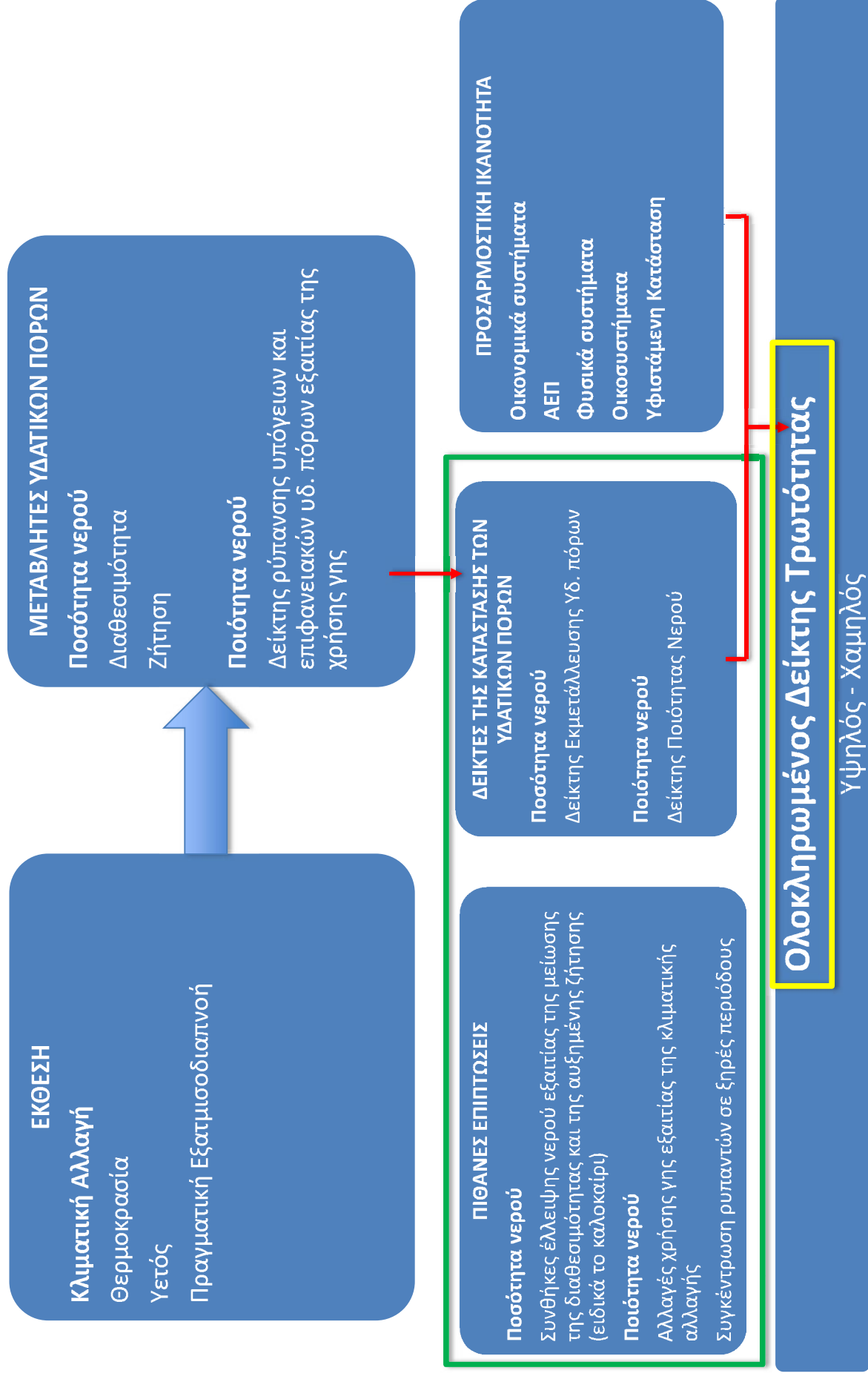
ESS = Δείκτης Οικοσυστημάτων (Ecosystem Services Index)
= WP(Παροχή Νερού) + WR(Κανονισμοί νερού) + WQR(Κανονισμοί ποιότητα νερού)



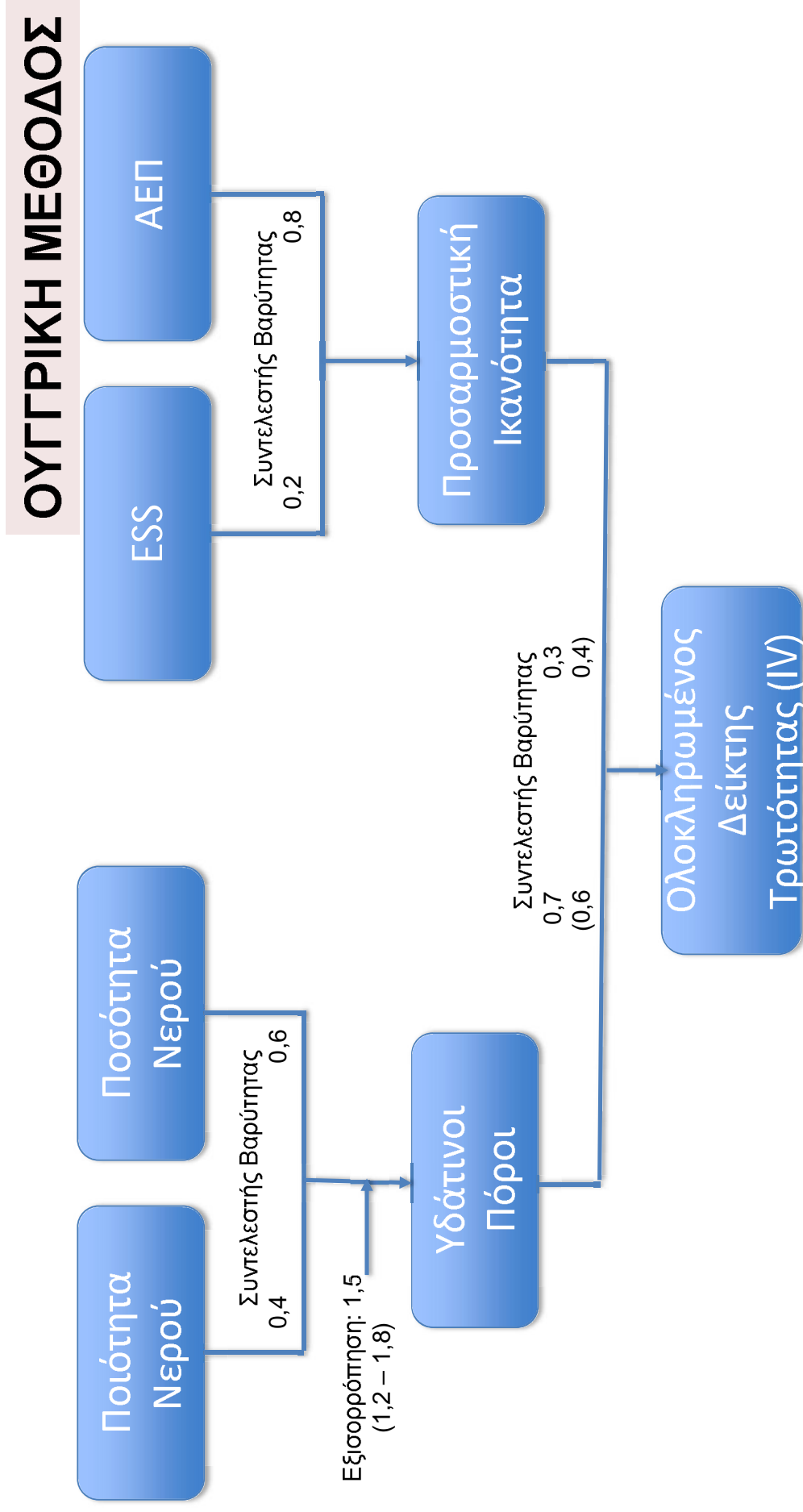
Δείκτης ESS



Ποιοτική Κατάσταση Υδατικών Πόρων



Υπολογισμός Δείκτη Τρωτότητας

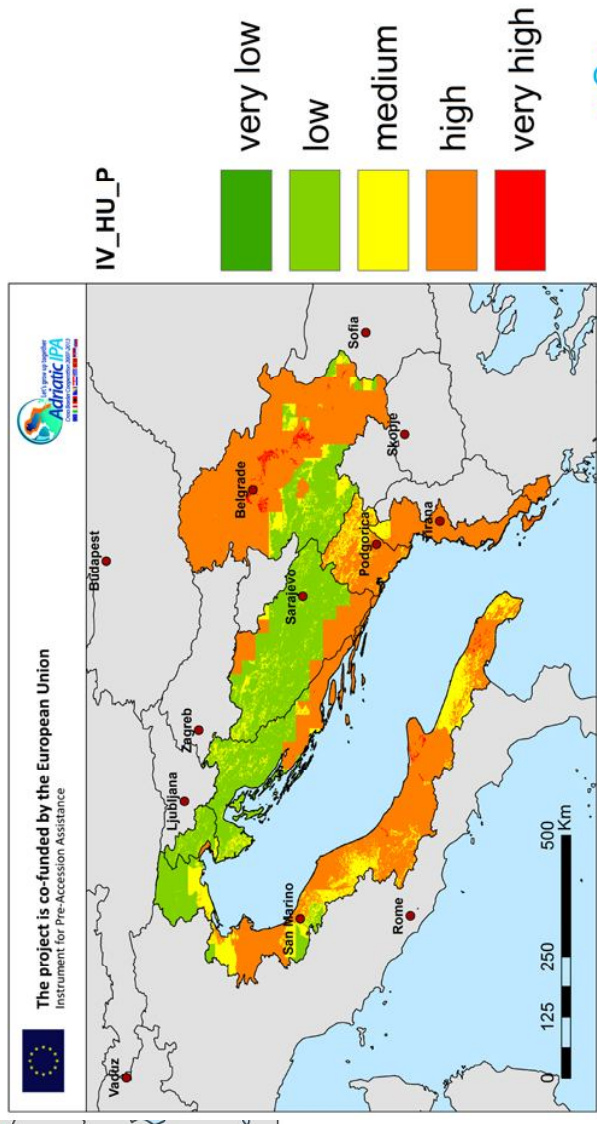
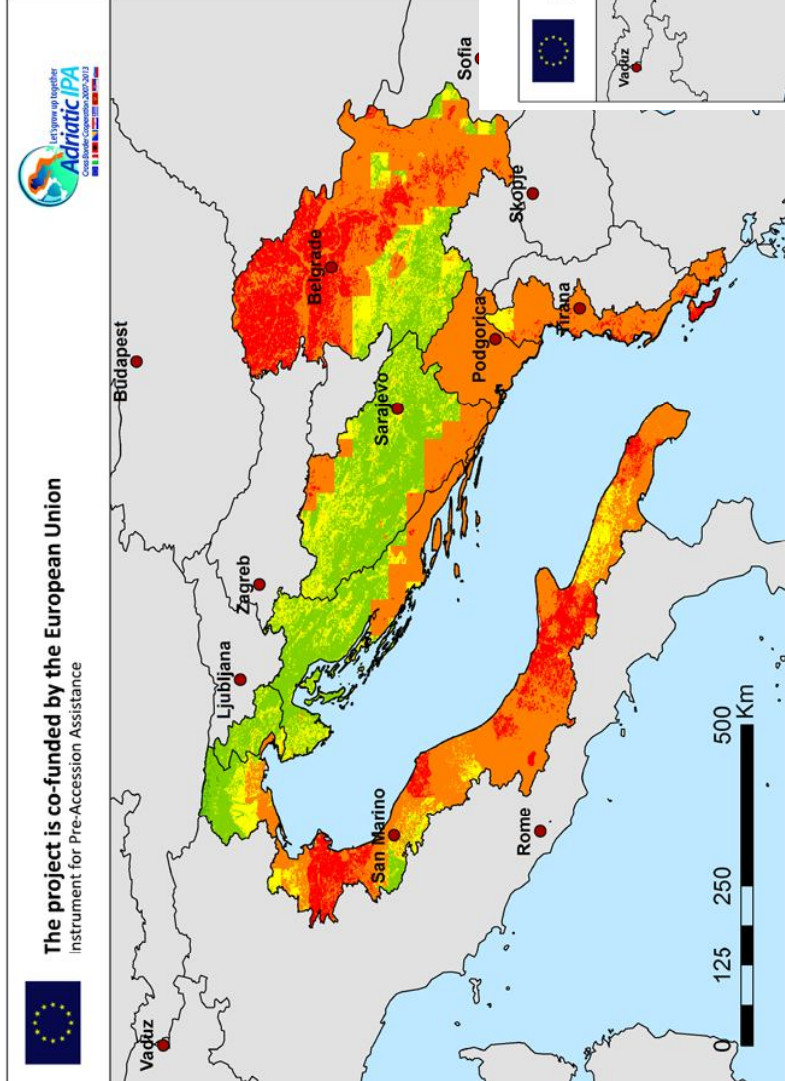


$$IV_{HU} = 0.7 \cdot (0.4 \cdot WQI_{GW}^{1.5} + 0.6 \cdot LWEL_{asw}^{1.5})^{\frac{1}{1.5}} + 0.3 \cdot (0.2 \cdot (1 - ESSI) + 0.8 \cdot (1 - GDP))$$



Ολοκληρωμένος Δείκτης Τρωτότητας

ΟΥΓΓΡΙΚΗ ΜΕΘΟΔΟΣ



DRINKADRIA

Υπολογισμός Δείκτη Τρωτότητας

ΑΥΣΤΡΙΑΚΗ ΜΕΘΟΔΟΣ

Δείκτης Υδατικών Πόρων

Ποσότητα νερού- LWEL-ετήσια διορθωμένη για εποχικότητα					
Ποιότητα Νερού LWEL	Δείκτης Υδατικών Πόρων				
	Πολύ χαμηλός	χαμηλός	μέτριος	υψηλός	Πολύ υψηλός
1	2	3	4	5	
Πολύ χαμηλός	A1	A2	A3	A4	A5
Χαμηλός	B1	B2	B3	B4	B5
Μέτριος	C1	C2	C3	C4	C5
Υψηλός	D1	D2	D3	D4	D5
Πολύ υψηλός	E1	E2	E3	E4	E5

Ποιότητα Νερού
LWEL

Προσαρμοστική Ικανότητα

ΑΕΠ ανά κάτοικο					
Ποιότητα Νερού LWEL	Προσαρμοστική Ικανότητα				
	Πολύ χαμηλός	χαμηλός	μέτριος	υψηλός	Πολύ υψηλός
1	2	3	4	5	
Πολύ χαμηλός	A1	A2	A3	A4	A5
Χαμηλός	B1	B2	B3	B4	B5
Μέτριος	C1	C2	C3	C4	C5
Υψηλός	D1	D2	D3	D4	D5
Πολύ υψηλός	E1	E2	E3	E4	E5

Δείκτης Υδατικών Πόρων	
Πολύ χαμηλός	χαμηλός
χαμηλός	μέτριος
μέτριος	υψηλός
υψηλός	Πολύ υψηλός

Προσαρμοστική Ικανότητα	
Πολύ χαμηλός	χαμηλός
χαμηλός	μέτριος
μέτριος	υψηλός
υψηλός	Πολύ υψηλός

Ολοκληρωμένη Τρωτότητα

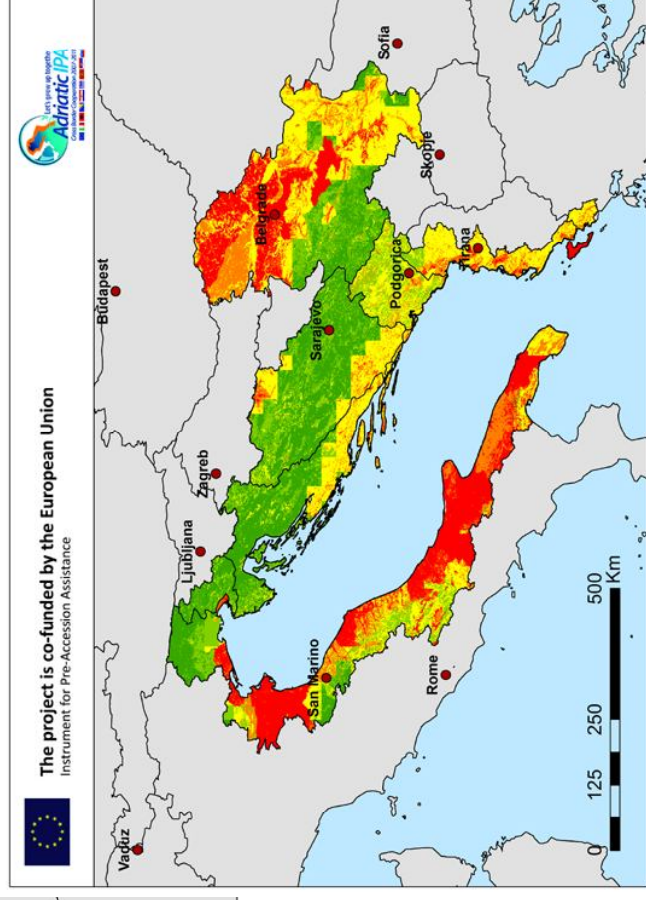
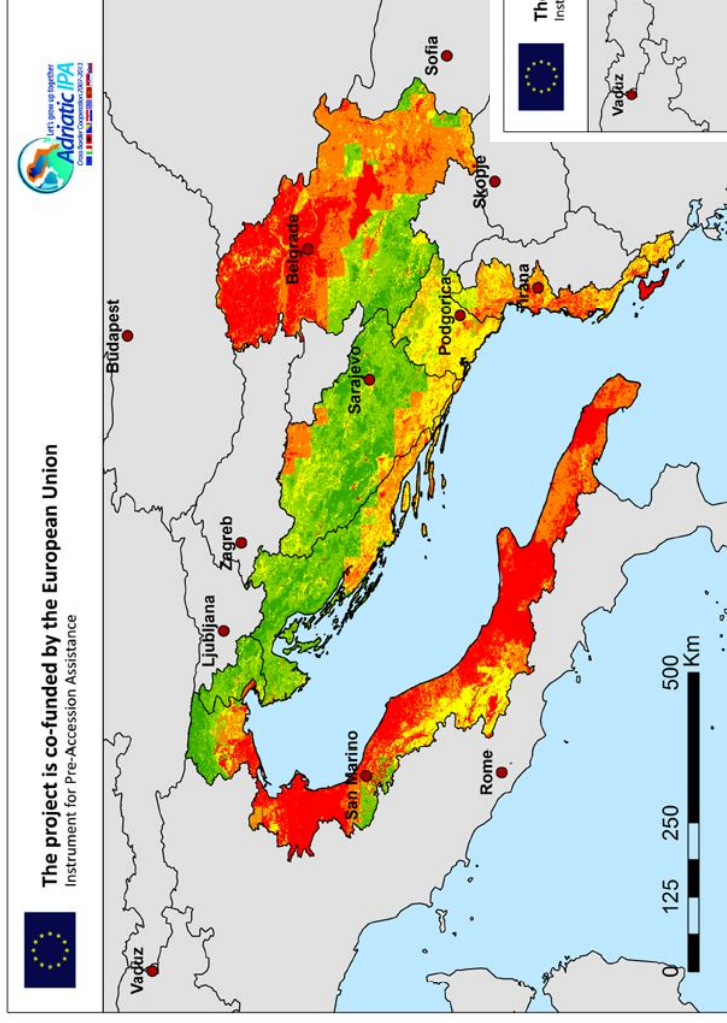
Προσαρμοστική Ικανότητα					
Δείκτης Υδατικών Πόρων	Προσαρμοστική Ικανότητα				
	Πολύ χαμηλός	χαμηλός	μέτριος	υψηλός	Πολύ υψηλός
1	2	3	4	5	
Πολύ χαμηλός	A1	A2	A3	A4	A5
Χαμηλός	B1	B2	B3	B4	B5
Μέτριος	C1	C2	C3	C4	C5
Υψηλός	D1	D2	D3	D4	D5
Πολύ υψηλός	E1	E2	E3	E4	E5

Ολοκληρωμένη Τρωτότητα	
Πολύ χαμηλός	χαμηλός
χαμηλός	μέτριος
μέτριος	υψηλός
υψηλός	Πολύ υψηλός



Ολοκληρωμένη Τρωτότητα

ΑΥΣΤΡΙΑΚΗ ΜΕΘΟΔΟΣ



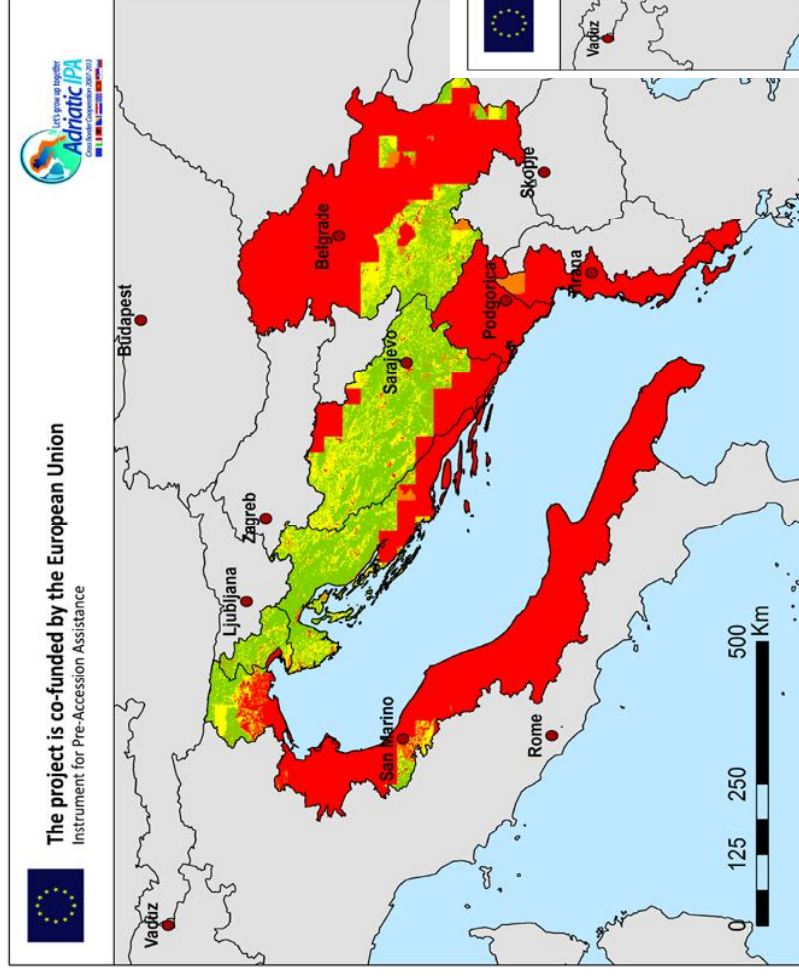
DRINKADRIA

Ολοκληρωμένη Τρωτότητα

ΜΕΘΟΔΟΣ ΜΕΓΙΣΤΟΠΟΙΗΣΗΣ

$$IV = \max(LWEI, WQ_{GW}, ESS, GDP)$$

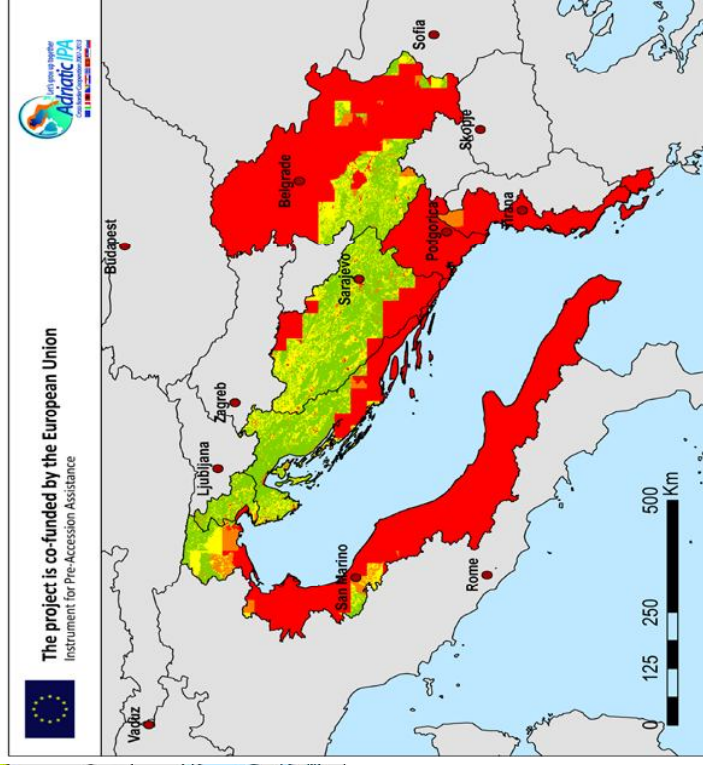
IV WQ_{LSW} maximum method P



very low vulnerability

low vulnerability

IV maximum method P



Ευχαριστώ!!

Ομάδα Πανεπιστημίου Θεσσαλίας

Συντονιστής: Αναπλ. Καθ. Βασίλης Κανακούδης
Δρ. Σταυρούλα Τσιτσιφλή (Αναπλ. Συντον. Τεχνικού Αντικειμένου)
Αναστασία Παπαδοπούλου (Αναπλ. Συντον. Οικον. Αντικ. & Τεχνική Υποστ.)

Αλεξάνδρα Ρουβά (Τοπικός Συντονιστής)
Ιωάννα Χυτήρη (Βοηθός Τοπικού Συντονιστή)

Αλέξανδρος Πρίγκος (Financial Auditor)
Ιφιγένεια Αργυριάδου (Τεχνική Υποστήριξη)
Ευμορφία Δροσίτη (Τεχνική Υποστήριξη)

Κέρκυρα, 21 Σεπτεμβρίου 2015

Let's grow up together



DRINK ADRIA



Adriatic IPA
Coastal Development 2007-2013
IT GR ES FR

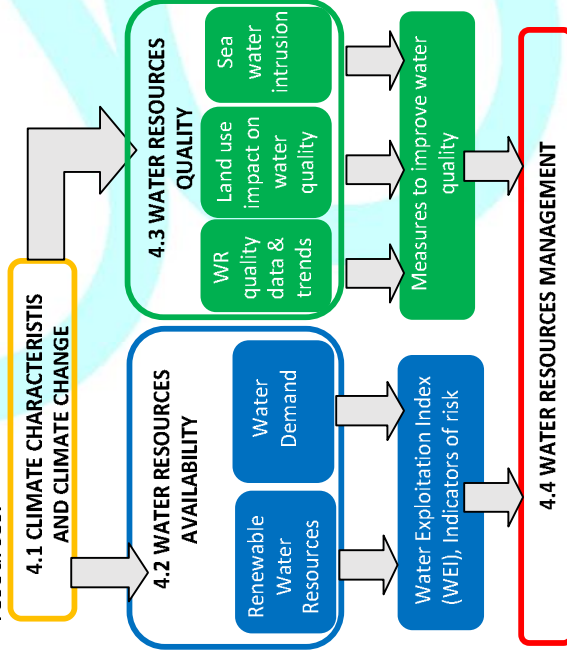


The project is co-funded by the European Union,
Instrument for Pre-Accession Assistance

Project Description

DRINKADRIA project aims at optimizing the integrated water supply management with specific regard to sustainable long-term water demand and resources availability and water supply systems efficiency. Specific attention is given to climate change and socio-economic aspects recognizing the specific situation in Adriatic region. DRINKADRIA project aims at developing common methodologies and tools towards an efficient cross-border water resources management.

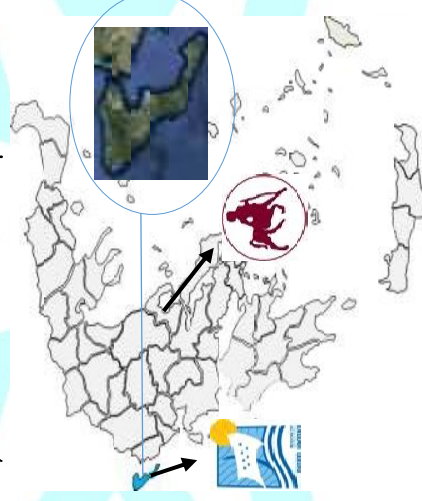
Cross-border water resources management is one of the main tasks involved in DRINKADRIA project including: the development of climate and climate change data; the identification of present and future risks for water resources availability with emphasis in drinking water; the determination of the causes for drinking water quality deterioration and; the development of guidelines and protocols for the protection and management of cross-border water resources.



Greece: Corfu Island Test Area

Two partners from Greece are involved in DRINKADRIA project: the Region of Ionian Islands and the University of Thessaly. The test area selected for the implementation of the cross-border water resources management task is the Island of Corfu. Corfu is situated in the Region of Ionian Islands in the North Western part of Greece. The island's surface is 588 Km².

Corfu Island belongs to the Water District of Epirus (GR05). The island's water bodies include three rivers: Messagis, Fonissa and Potami; three transitional water bodies; six coastal water bodies, one of them heavily modified; and three aquifers according to the River Basin Management Plan (RBMP) for the Water District of Epirus.



Region of Ionian Islands

<http://pin.gov.gr>

Associate Organization
Municipal Water Supply and
Sewerage Company of Corfu
<http://www.deva-ker.gr>



DRINK ADRIA

NETWORKING FOR DRINKING WATER SUPPLY IN THE ADRIATIC REGION



www.drinkadria.eu; info@drinkadria.eu

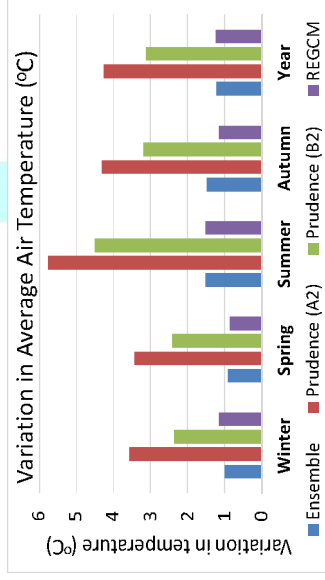
University of Thessaly
Civil Engineering Dept.
<http://civ.uth.gr>



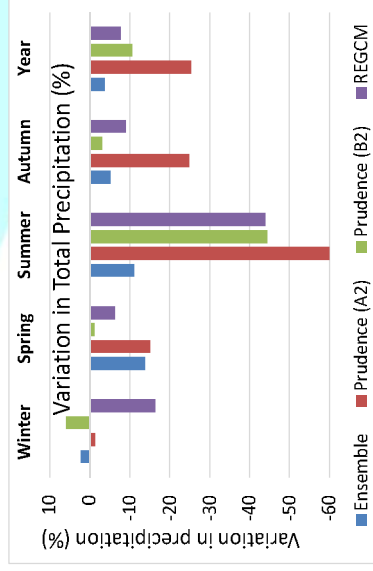
Scientific Coordinator & Project Manager
Assoc. Prof. Vasilis Kanakoudis
bkanakoud@civ.uth.gr

Climate Characteristics and Climate Change

The climate in Corfu Island is the Mediterranean one. The average monthly temperature varies from 6.8 to 30°C (1955-2014). The highest precipitation occurs during autumn and winter. Average monthly precipitation values range from 0 to 503mm (1961-2013) (source: Greek National Meteorological Service)

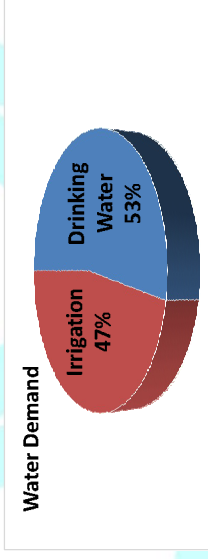


Climate models simulation showed that the average annual temperature is expected to increase from 1.23 to 4.27°C (2021-2050). The total precipitation is expected to decrease especially in the summer months, while the total annual precipitation values are expected to decrease 3.93 to 25.4% (<http://www.geoclimate.eu/>).

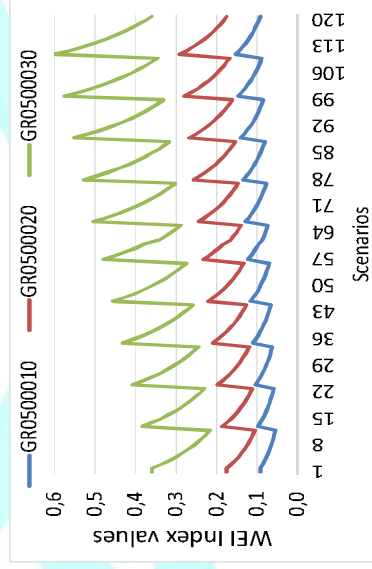


Water Resources Availability

The main aquifers in Corfu Island are developed in the carbonate formations of the Ionian zone. Two of them are karstic ones and the third one is granular. Water demand data are provided in the RBMP of Epirus. Water intake from surface water bodies is low (only 2% of the total water demand).



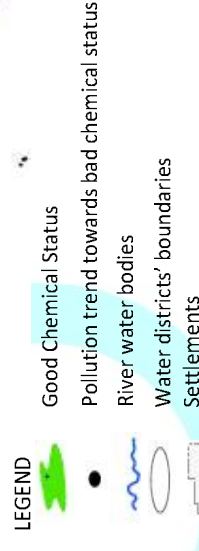
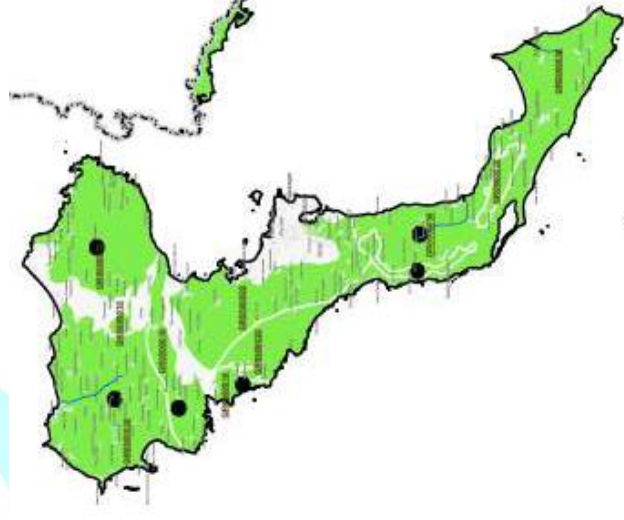
The Water Exploitation Index (WEI) is estimated for Corfu Island aquifers for 121 scenarios. Water demand values and water natural recharge values vary from -25% to +25% at a step of 5%.



The results showed that even if the water demand increases by 25% and the natural recharge decreases by 25% the aquifers will not suffer from water exploitation. The results are verified from the evaluation of the quantitative status performed in the RBMP of Epirus for the River basin of Corfu.

Water Resources Quality

The aquifers are found to be in good chemical quality status according to the RBMP (marked in green in the map). High concentrations of sulphates are due to the natural background (gypsum), point and diffuse sources of pollution are responsible for increased nitrates and ammonium concentrations of local importance. Additionally high concentrations of chlorides are locally met in the coastal zones due to sea water intrusion caused by excessive pumping and due to natural causes.



Source: RBMP of Epirus



UNIVERSITY OF THESSALY

Δυνατότητες ανάκτησης ενέργειας στα δίκτυα ύδρευσης με χρήση μικρο-τουρμπινών Αν. Καθηγητής Βασίλης Κανακούδης Επιστημονικώς Υπεύθυνος και Επικεφαλής Ομάδας Έργου Μενέλαος Πατέλης, Πανεπιστήμιο Θεσσαλίας

Κέρκυρα, 22 Σεπτεμβρίου 2015

Let's grow up together



DRINK ADRIA



The project is co-funded by the European Union,
Instrument for Pre-Accession Assistance

Περιεχόμενα

- Εισαγωγή
- Οι μικρο – τουρμπίνες
 - Γενικά
 - Η λειτουργία
 - Εγκατάσταση
- Εφαρμογή
- Ανάκτηση ενέργειας
- Έλεγχος απωλειών
- Μελέτη μικρο – τουρμπίνας
- Παράδειγμα μελέτης εφαρμογής μικρο – τουρμπίνας
- Άλλες περιπτώσεις εφαρμογής μικρο – τουρμπινών
- Έρευνα
- Επίλογος

Εισαγωγή

Τα δύο μέγιστα προβλήματα της διαχείρισης ενός δικτύου ύδρευσης στη σύγχρονη εποχή είναι **οι απώλειες νερού** και **η κατανάλωση ενέργειας**.



Μέχρι σήμερα οι απώλειες νερού έχουν θεωρηθεί το μείζον πρόβλημα των εταιριών διαχείρισης δικτύων ύδρευσης και έχουν αναπτυχθεί πολλά μοντέλα και θεωρίες που στοχεύουν στον περιορισμό τους. Η επικρατέστερη τεχνική περιορισμού των απωλειών είναι η ρύθμιση της πίεσης του δικτύου, καθώς οι απώλειες εξαρτώνται άμεσα από την πίεση του νερού μέσα στο δίκτυο.

Εισαγωγή

Με το πέρασμα των ετών επήλθε:

- αύξηση του κόστους της ενέργειας
- αύξηση στην ενεργειακή ανάγκη των δικτύων ύδρευσης.

Καλλιεργήθηκε οπότε η ανάγκη για ενεργειακή αυτάρκεια.

Η λύση, έρχεται μέσα από το ίδιο το δίκτυο ύδρευσης και την δυνατότητα που παρέχει, να **ανακτά** ή να **παράγει** ενέργεια με τη βοήθεια των **μικρο – τουρμπινών**.

Οι ενεργειακές ανάγκες ενός δικτύου ύδρευσης

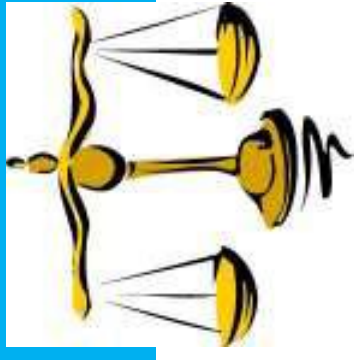
Τα δίκτυα ύδρευσης αναλόγως του πληθυσμού εξυπηρέτησης και της έκτασης απαιτούν σημαντικές ποσότητες ενέργειας για τη σωστή λειτουργία τους. Μερικές συνήθειες καταναλώσεις είναι οι παρακάτω:

1. Αντλιοστάσια, πληρωτές δεξαμενών.
2. Συστήματα χλωρίωσης, φίλτρα.
3. Αντλίες και τουρμπίνες ανύψωσης μανομετρικού.
4. Συστήματα παρακολούθησης ποιότητας και βαθμού εξυπηρέτησης. (SCADA, αισθητήρες)
5. Ηλεκτροδότηση κεντρικών γραφείων διαχείρισης και επαγγελματικής στέγης προσωπικού.
6. Ηλεκτροδότηση κατά τόπους οικίσκων.

Οι παραπάνω ανάγκες έχουν μέγεθος ανάλογο της τροφοδοτούμενης ποσότητας νερού στο δίκτυο. Οπότε με τον περιορισμό των απωλειών έχουμε άμεση μείωση της απαιτούμενης ενέργειας.



Ενεργειακό Ισοζύγιο



Ενέργεια που εισάγεται	Ενέργεια φυσικά εισαγόμενη	Ενέργεια που μεταφέρεται στους καταναλωτές	Εξερχόμενη Ενέργεια
	Ενέργεια τεχνητά εισαγόμενη	Ενέργεια εξερχόμενη μέσω διαρροών	
		Ενέργεια καταναλισκόμενη λόγω τριβών και λοιπών απωλειών	Χαμένη Ενέργεια

Ενεργειακό ισοζύγιο. **Energy Audit of Water Networks** Enrique Cabrera, M.ASCE; Miguel A. Pardo; Ricardo Cobacho; and Enrique Cabrera Jr. (2010)

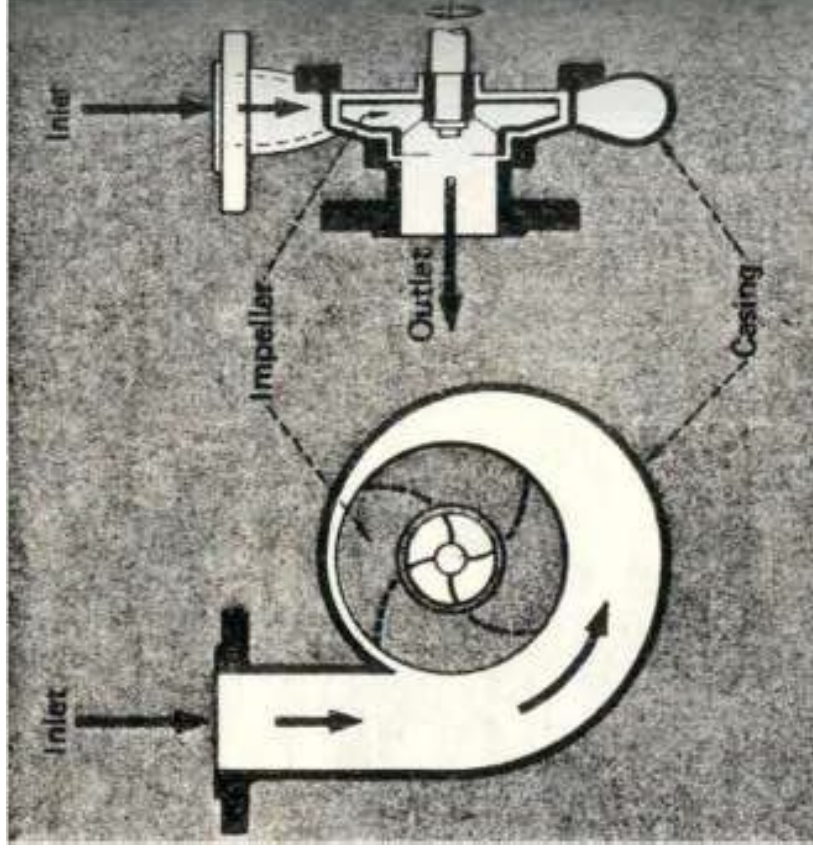
Οι μικρο – τουρμπίνες στοχεύουν στην παραγωγή ενέργειας, αλλά και στον περιορισμό της ενέργειας που καταναλώνεται για την κάλυψη των διαρροών, μέσω της ρύθμισης της πίεσης.



Οι μικρο - τουρμπίνες

Μικρο – τουρμπίνες ονομάζουμε τις διατάξεις που έχουν τα εξής δύο χαρακτηριστικά.

- Αποτελούν μία πλήρη διάταξη τουρμπίνας γνωστή από λοιπές εφαρμογές (π.χ. **Booster** που χρησιμοποιείται ευρέως στα δίκτυα ύδρευσης). Η διαφορά με τις γνώριμες εφαρμογές τουρμπινών είναι το γεγονός ότι λειτουργούν με την αντίθετη «λογική» από τις αντλίες. Δηλαδή δεν καταναλώνουν ενέργεια για να παράγουν κίνηση, αλλά εκμεταλλεύονται την κίνηση του νερού για να παράγουν ενέργεια.
- Ο χαρακτηρισμός “μικρο” αποδίδεται από την απλότητα της κατασκευής και εφαρμογής σε μεγάλη ποικιλία διατομών ακόμα και πολύ μικρές όπως τα 80mm.



Οι μικρο - τουρμπίνες

Παράδειγμα μικρο -τουρμπίνας
διαθέσιμης στην αγορά



Εγκατεστημένες μικρο -τουρμπίνες
σε λειτουργία

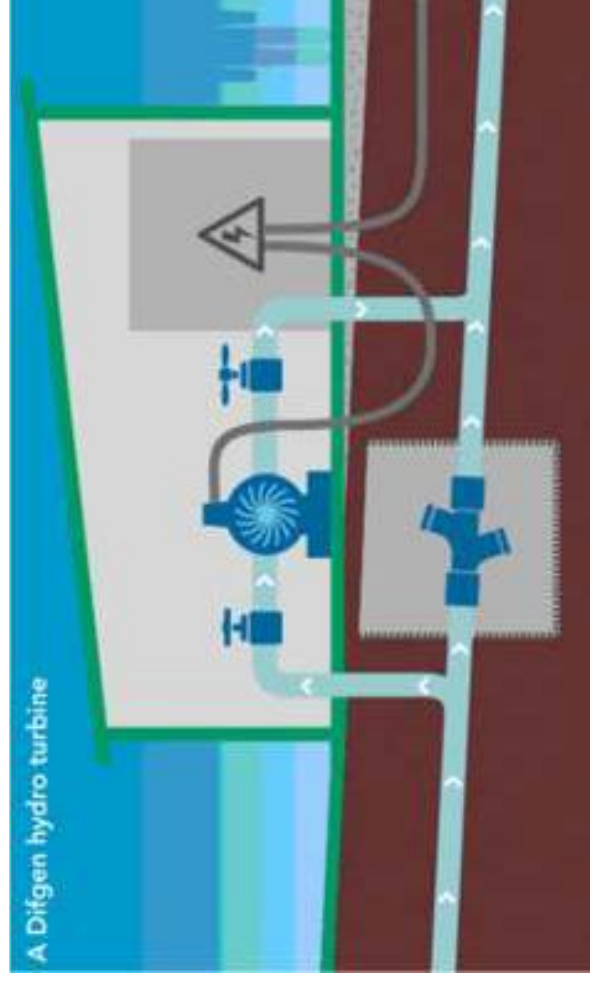


Οι μικρο - τουρμπίνες

Η λειτουργία

Έχοντας μία είσοδο και μία έξοδο, οι μικροτουρμπίνες συνδέονται παρεμβαλλόμενες σε έναν ικανό αγωγό. Εισερχόμενο το νερό του αγωγού στην τουρμπίνα, περιστρέφει μία φτερωτή διάταξη που ποικίλλει ανάλογα τον κατασκευαστή, η οποία σε συνέχεια μέσω ενός άξονα, δίνει κίνηση στην ηλεκτρογεννήτρια, με σκοπό παραγωγή ενέργειας σε μορφή ηλεκτρικού ρεύματος. Η λειτουργία των μ.–τ. είναι συνεχής και αδιάκοπη. Η εγκατεστημένη ισχύς κυμαίνεται από 100 watt έως και 50 kwatt, σε εξαιρετικές περιπτώσεις μπορεί να φθάσει τα 100 ή και 200 kw, όμως τότε η κλίμακα του έργου αλλάζει.

Ανάλογα με το μανομετρικό που υπάρχει στο σημείο της σύνδεσης, την παρεχόμενη ποσότητα νερού και τη διατομή του αγωγού επιλέγεται και η κατάλληλη διάταξη τουρμπίνας σε φυσικό μέγεθος και ισχύ.

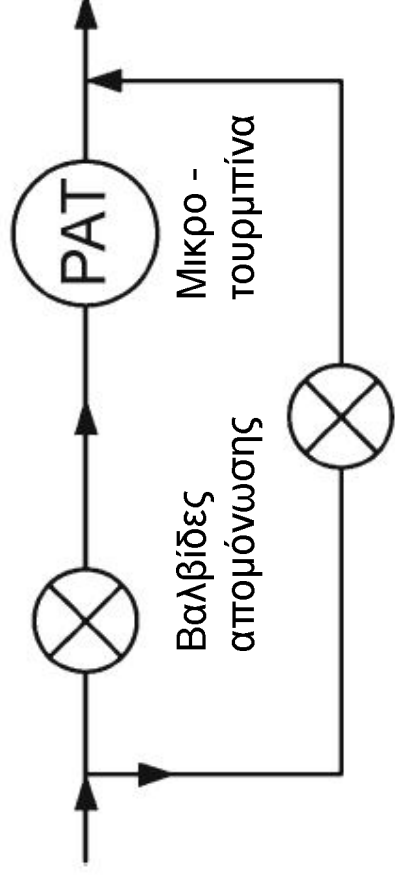


Οι μικρο - τουρμπίνες

Η εγκατάσταση

Σαφώς σαν διάταξη που παρεμβάλλεται στο δίκτυο, αν και μικρή, δεν παύει να απαιτεί προσοχή στην εγκατάστασή της.

1. Κατασκευή φρεατίου, για την, ικανό να φιλοξενήσει και παράκαμψη της διάταξης.
2. σύνδεση και τοποθέτηση της $\mu - \tau$.
3. Ηλεκτρολογική εγκατάσταση, υψηλών τάσεων
4. Μέριμνα ως προς την ακουστική όχληση.



Εφαρμογή

Για τη σωστή εφαρμογή των μικρο – τουρμπινών υπάρχουν κάποιοι άξονες που πρέπει να ληφθούν υπ’ όψιν για τη σωστή μελέτη του έργου.

1. Υπάρχον διαθέσιμο δυναμικό. (Αρκετή περίσσεια ενέργειας προς εκμετάλλευση, ικανές παροχές και μανομετρικό ώστε να καλύπτουν τις απαιτήσεις των κατασκευαστών. Ειδικά η απόδοση της τουρμπίνας ενδέχεται να μειωθεί αισθητά έως και να μηδενισθεί)
2. Διαθέσιμη περίσσεια πίεσης. (Ανάντι πίεση ικανή να εξασφαλίσει ελάχιστες τιμές πίεσης κατάντι. Κατά την εφαρμογή της μ-τ έχουμε και πτώση πίεσης κατάντι της. Πρέπει λοιπόν η πίεση αυτή να επαρκεί για την εξυπηρέτηση του δικτύου)
3. Διαθέσιμος χώρος. (Αν και μικρή εγκατάσταση απαιτεί φρεάτιο για την τοποθέτηση, οικίσκοι και περίφραξη για την προστασία και παρατήρηση σωστής λειτουργίας)
4. Κεφάλαιο / Χρηματοδότηση. (Όπως κάθε επένδυση χρειάζεται χρηματοδότηση, έτσι και για την παρούσα εγκατάσταση απαιτείται σημαντικό κεφάλαιο. Αν και έχει ανταποδοτική χρήση αποδίδοντας έσοδα ή καλύπτοντας κάποιες καταναλώσεις, απαιτείται αρχικό κεφάλαιο για αγορά εξοπλισμού και έξοδα εγκατάστασης και μελετών)

Ανάκτηση Ενέργειας

□ Ο στόχος της εφαρμογής των μικρο-τουρμπινών είναι η ανάκτηση ενέργειας μέσα από το ίδιο το δίκτυο. Η ενέργεια έπεται είναι διαθέσιμη είτε να καταναλωθεί καλύπτοντας μέρος των ενεργειακών αναγκών του δικτύου ύδρευσης, είτε διατιθέμενη προς πώληση (εάν υπάρχει σχετική δυνατότητα).



□ Η ανακτώμενη ενέργεια με τον παραπάνω τρόπο δημιουργεί την δυνατότητα στο δίκτυο να αυτοεξυπηρετείται ενεργειακά πλήρως ή μερικώς. Λειτουργεί ευεργετικά σε αντίθεση με τα σύγχρονα δεδομένα όπου η ενέργεια καθίσταται όλο και πιο ακριβή και δυσεύρετη.



□ Η παρούσα μέθοδος παραγωγής ενέργειας είναι άκρως φιλική προς το περιβάλλον, προερχόμενη από ανανεώσιμη πηγή, χωρίς σημαντικές παρεμβάσεις σε αυτό, αντίθετα από τα μεγάλα υδροηλεκτρικά έργα.



Έλεγχος απωλειών

Πρέπει να τονιστεί ότι ο πλέον αποδοτικός και οικονομικός τρόπος περιορισμού των υδατικών απωλειών είναι η ρύθμιση της πίεσης.

Με την εγκατάσταση όμως των μικρο – τουρμπινών, επιτυγχάνεται:

1. μείωση της πίεσης κατάντι της διάταξης.
2. η μείωση της πίεσης είναι προβλέψιμη και προϊόν σχεδιασμού έτσι ώστε να μην πέφτει κάτω από δεδομένες οριακές τιμές.
3. Ανάλογα με της περίσσεια της πίεσης, επιλέγεται και το μέγεθος εγκατεστημένης ισχύος.
4. Με τη χρήση των μ-τ επιτυγχάνεται τοπική ρύθμιση της πίεσης ή καθολική ρύθμιση εάν συνδυαστούν με στοχευμένη εγκατάσταση βαλβιδιών αποκλεισμού και ρύθμισης της πίεσης.

Μελέτη μικρο – τουρμπίνας

Για να καθοριστεί η ανάγκη, η δυνατότητα, το μέγεθος, αλλά και άλλοι παράγοντες της εγκατάστασης μιας μικρο – τουρμπίνας απαιτείται η μελέτη της.

Μέλη μελέτης:

Έκθεση αναγκαιότητας εξετάζεται η ανάγκη και το ύψος της σημασίας, εγκατάστασης μίας ή περισσότερων μ-τ. Σε ένα δίκτυο όπου δεν υπάρχουν σημαντικές καταναλώσεις ενέργειας και πολλά πάγια έξοδα δεν θεωρείται αναγκαία μία εγκατάσταση ανάκτησης ενέργειας για μόνο ιδιόχρηση της ενέργειας αυτής.

Εκτίμηση δυναμικού διερευνάται και μελετάται αναλυτικά το δίκτυο ύδρευσης εξωτερικά και εσωτερικά ώστε να εκτιμηθεί η περίσσεια ενέργειας που διαθέτει. Ενέργεια που θα κλιθεί η τουρμπίνα να εκμεταλλευτεί για να παράγει ηλεκτρικό ρεύμα. Σημαντικές συνιστώσες που επηρεάζουν το δυναμικό είναι το ανάγλυφο της περιοχής του δικτύου σε σχέση με τις εγκαταστάσεις παροχής νερού, καθώς και το μέγεθος των παροχτευόμενων ποσοτήτων.



Μελέτη μικρο – τουρμπίνας

Τοποθέτηση / χωροθέτηση μικρο – τουρμπινών μετά την εκτίμηση δυναμικού του δικτύου ύδρευσης μελετώνται οι πιθανές θέσεις τοποθέτησης των διατάξεων μέσα στο δίκτυο. Γνώμονας αποτελεί η μέγιστη δυνατή ανακτώμενη ενέργεια από το επιθυμητό πλήθος τουρμπινών σε συνδυασμό με τις λιγότερες και καλύτερες επιπτώσεις στο δίκτυο. Εδώ αναλύονται οι εναλλακτικές θέσεις και σενάρια τοποθέτησης για παρακάτω μελέτη.

Επιλογή κατάλληλου ηλεκτρομηχανολογικού εξοπλισμού γνωρίζοντας τα χαρακτηριστικά των πιθανών θέσεων εφαρμογής των μ-τ γίνεται έρευνα στην αγορά για τη σωστή επιλογή των μ-τ από πλευράς διαστασιολόγησης αλλά και εγκατεστημένης - αποδιδόμενης ισχύος.

Οικονομική ανάλυση γνωρίζοντας πλέον την εκτιμώμενη παραγόμενη ισχύ αλλά και τα κόστη αγοράς του εξοπλισμού και λοιπών εξόδων, γίνεται οικονομική ανάλυση για την επιλογή της πλέον συμφέρουσας λύσης ή συνδυασμό λύσεων, ώστε να επιτευχθεί η μέγιστη ανάκτηση ενέργειας, η βέλτιστη ρύθμιση της πίεσης αλλά και η ταχύτερη αποπληρωμή του επενδεδυμένου κεφαλαίου.

Τεχνικές μελέτες και σχέδια μετά την οριστική επιλογή λύσης παράγονται τα απαραίτητα σχέδια και μελέτης για την υλοποίηση της εγκατάστασης.



Παράδειγμα μελέτης εφαρμογής μικρο - τουρμπίνας

Ακολουθεί η παρουσίαση της περίπτωσης του Παλέρμο για εγκατάσταση μικρο – τουρμπινών όπως περιγράφεται στο:
Energy recovery in water distribution networks. Implementation of pumps as turbine in a dynamic numerical model

Από τους:

M. De Marchis, C.M. Fontanazza,

G. Freni, A. Messineo, B. Milici,

E. Napoli, V. Notaro, V. Puleo, A. Scopa

Των πανεπιστημίων:

Universita di Enna Kore,

Cittadella Universitaria, Enna, Italy

&

Universita di Palermo, Viale delle Scienze,
Palermo, Italy



Slide 16

i6

ΒΑΛΕ ΕΝΑΝ ΧΑΡΤΗ ΚΑΙ ΔΕΙΞΕ ΠΟΥ ΕΙΝΑΙ ΣΤΗΝ ΙΤΑΛΙΑ
17; 15/9/2015

Παράδειγμα μελέτης εφαρμογής μικρο - τουρμπίνας



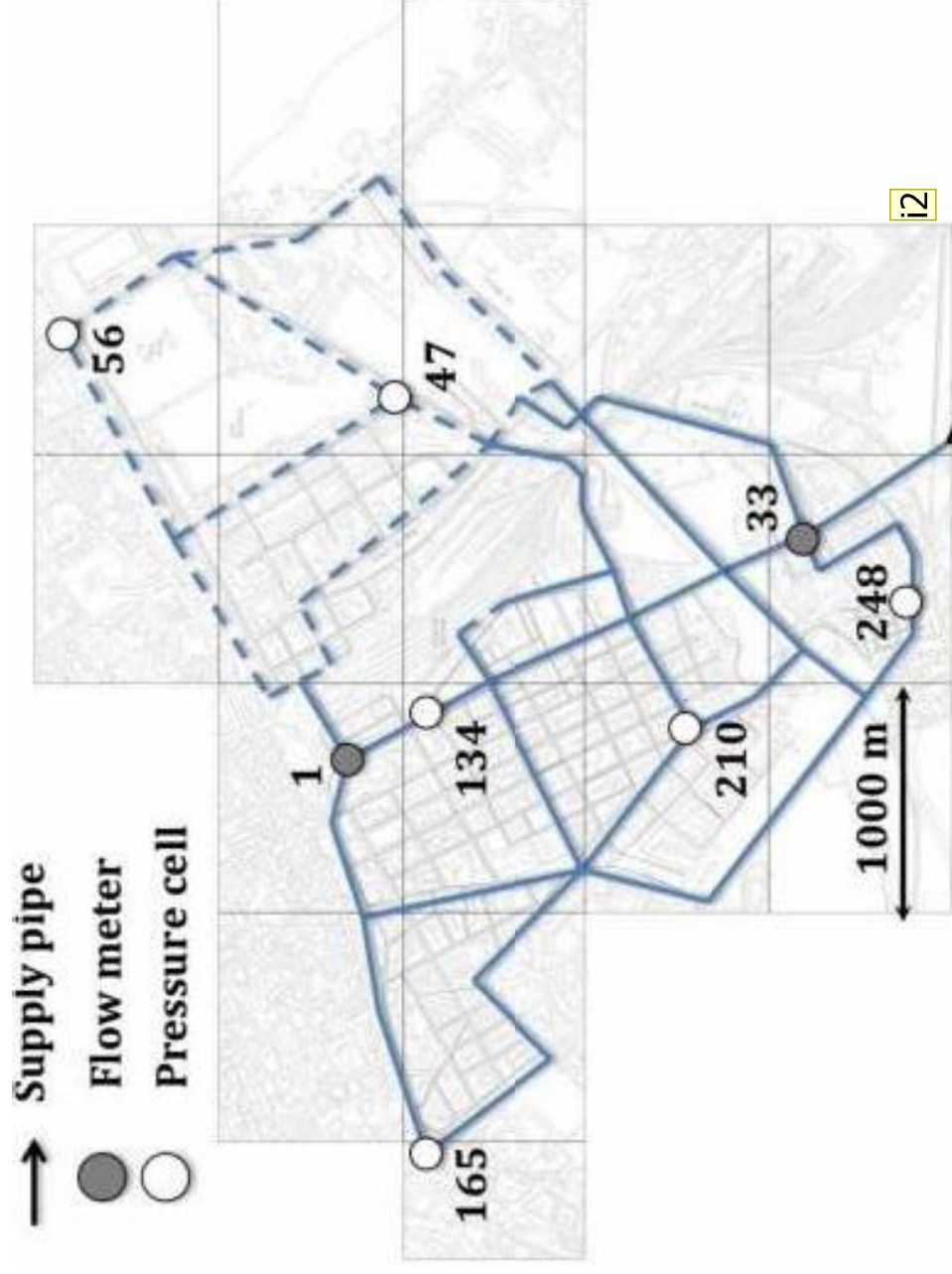
Η μελέτη αφορά μέρος της πόλης του Παλέρμο όπου υπάρχουν 11.300 μετρητές και εξυπηρετούνται περίπου 35.000 κάτοικοι. Το συγκεκριμένο δίκτυο είναι ένα από τα 17 δίκτυα ύδρευσης της πόλης και έχει σχεδιαστεί να μεταφέρει 400 λίτρα νερό ανά κάτοικο την ημέρα. Το Παλέρμο είναι μία πόλη με έντονο ηπειρωτικό ανάγλυφο και ευρύτερο δίκτυο ύδρευσης που ποικίλλει σε υλικά, διαστάσεις και ηλικία.

Slide 17

i6

ΒΑΛΕ ΕΝΑΝ ΧΑΡΤΗ ΚΑΙ ΔΕΙΞΕ ΠΟΥ ΕΙΝΑΙ ΣΤΗΝ ΙΤΑΛΙΑ
17; 15/9/2015

Παράδειγμα μελέτης εφαρμογής μικρο - τουρμπίνας



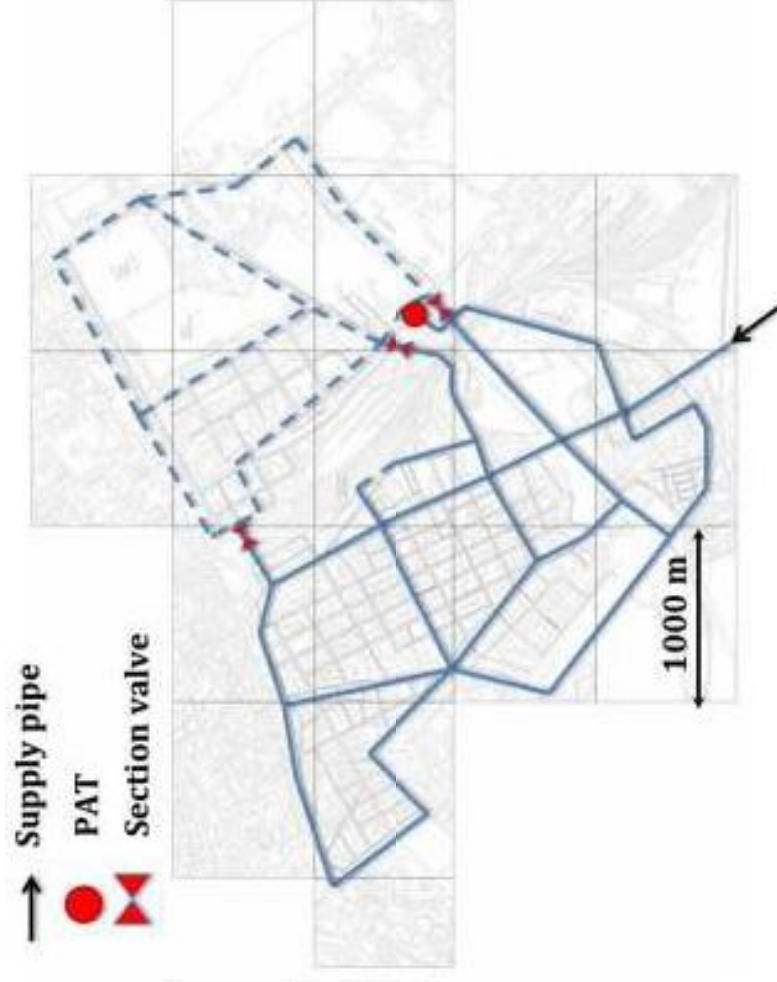
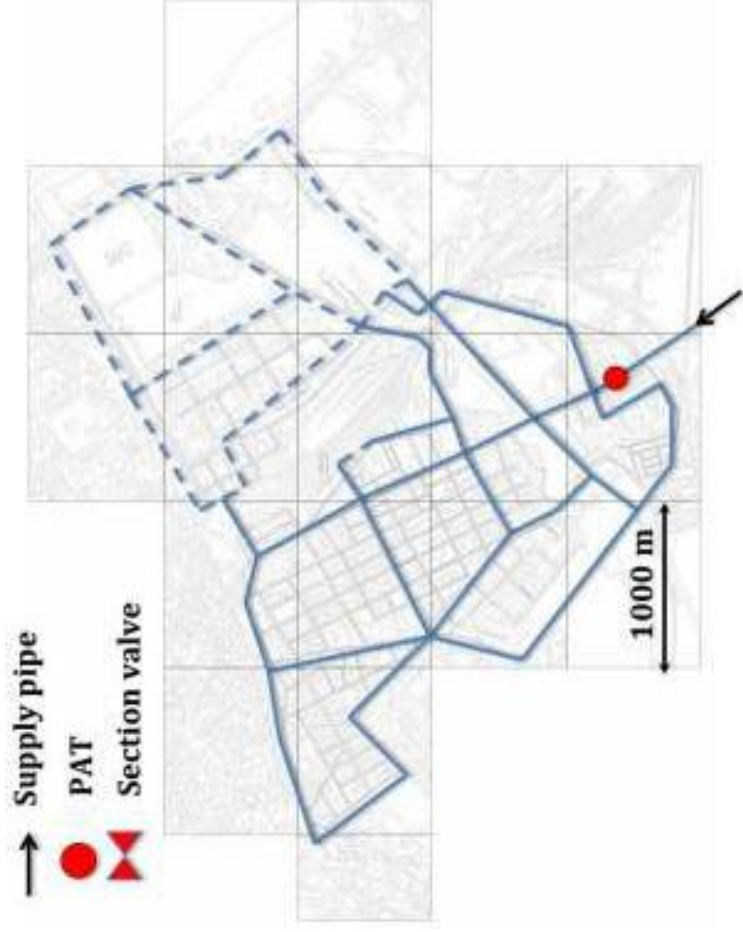
Το δίκτυο που μελετήθηκε είναι υδραυλικά απομονωμένο σχηματίζοντας μία DMA (district metered area). Η συνεχής μπλε γραμμή οριοθετεί την περιοχή με το μεγαλύτερο υψόμετρο ενώ η διακεκομμένη μπλε ορίζει την περιοχή με το χαμηλότερο.

Slide 18

i2 αποτελεί δηλαδή 1 DMA ή περισσότερες εν σειρά??? αν όχι, λες ότι είναι 1 DMA
17; 5/9/2015

Παράδειγμα μελέτης εφαρμογής μικρο - τουρμπίνας

Ανάλυση εναλλακτικών συνδυασμών χωροθέτησης και εξοπλισμού.

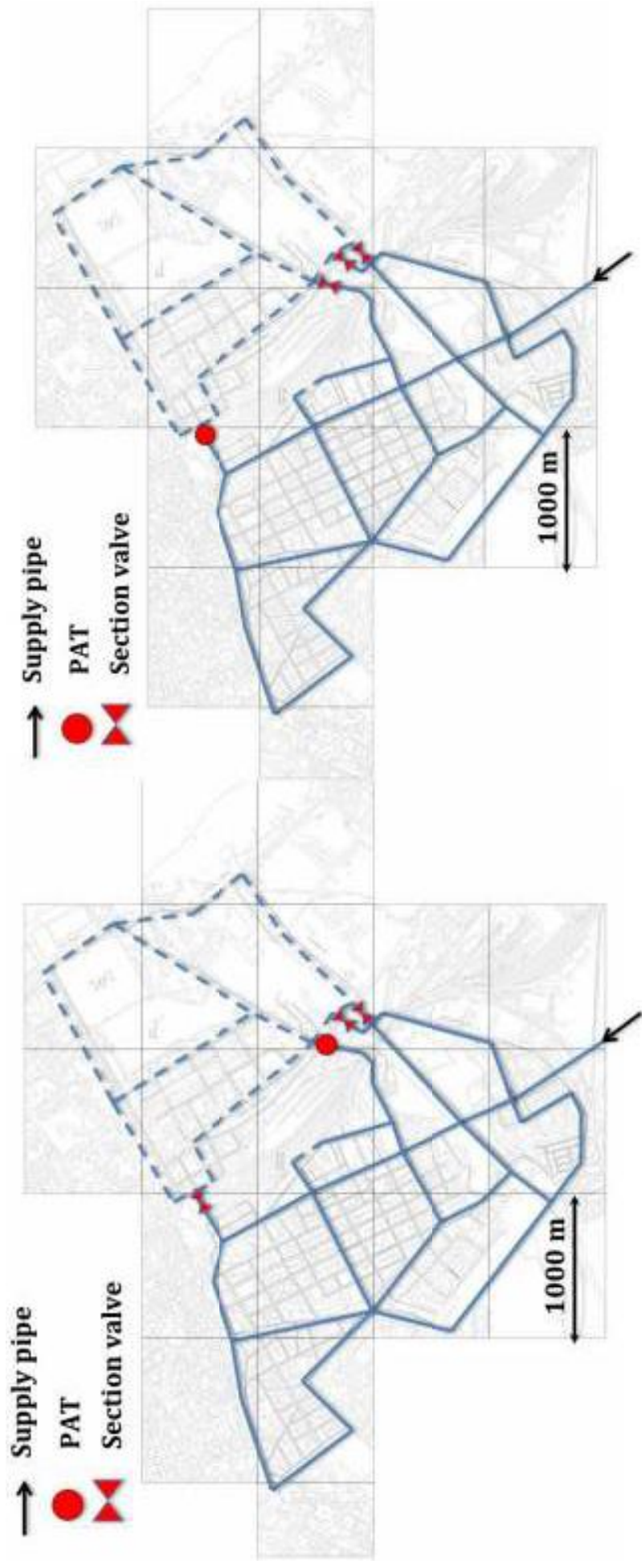


Περίπτωση α. Εγκατάσταση μίας μ-τ στην είσοδο της υδραυλικά απομονωμένης περιοχής.

Περίπτωση β. Εγκατάσταση μίας μ-τ με συνδυασμό δύο ακόμα βαλβίδων απομόνωσης με πεδίο εφαρμογής το χώρο της διακεκομμένης γραμμής.



Παράδειγμα μελέτης εφαρμογής μικρο - τουρμπίνας



Περίπτωση γ. Εγκατάσταση μίας μ-τ με συνδυασμό δύο ακόμα βαλβίδων απομόνωσης με πεδίο εφαρμογής το χώρο της διακεκομμένης γραμμής.

Περίπτωση δ. Εγκατάσταση μίας μ-τ με συνδυασμό δύο ακόμα βαλβίδων απομόνωσης με πεδίο εφαρμογής το χώρο της διακεκομμένης γραμμής.

Παράδειγμα μελέτης εφαρμογής μικρο - τουρμπίνας

Οικονομική και τεχνική ανάλυση

Περίπτωση ανάλυσης	Παροχή Q(LT/s)	Μανομετρικό ύψος (μέτρα)	Εγκατεστημένη ισχύς (kW)
α	160	6,27	7,3
β	26	8,43	1,6
γ	38	10,9	3,02
δ	33	10,4	2,23

Παράδειγμα μελέτης εφαρμογής μικρο - τουρμπίνας

Περίπτωση ανάλυσης	Ισχύς (kW)	Μέση ετήσια παραγόμενη ενέργεια (kWh/year)	Κόστος αγοράς κ' εγκ/σης (euro)	Έξοδα συντήρησης (euro/year)	Κέρδη (συμπ. Έξοδα συντ.) (euro/year)	Περίοδος αποπληρωμής (αγορά + συντήρηση)
α	8,59	65.156	22.328	3.349	10.984	2,03 έτη
β	1,88	12.763	4.893	734	2.073	2,36 έτη
γ	3,55	19.740	9.227	1.384	2.958	3,12 έτη
δ	2,62	10.019	6.821	1.023	1.181	5,78 έτη

Οι τιμές θεωρούνται ως Παρούσες Αξίες και δεν έχει συνυπολογιστεί πιθανό Χρηματοδοτικό Κόστος Κεφαλαίου σε περίπτωση δανεισμού (υπόθεση ύπαρξης ταμειακού διαθέσιμου)



Παράδειγμα μελέτης εφαρμογής μικρο - τουρμπίνας

Αποτελέσματα - Σχόλια

Προφανώς και η ελκυστικότερη λύση είναι η α αφού παρά το μεγάλο κόστος εγκατάστασης και συντήρησης, αποδίδει την περισσότερη ενέργεια και έχει το μικρότερο χρόνο απόσβεσης (break-even time)

Μέσα από το παραπάνω παράδειγμα καταλαβαίνουμε τα εξής:

- Όσο μεγαλύτερη παροχή και διατομή αγωγού τόσο μεγαλύτερη είναι η ισχύς της μικρο – τουρμπίνας που μπορούμε να εγκαταστήσουμε.
- Κεντρικοί αγωγοί που υδροδοτούν μεγάλο αριθμό καταναλωτών είναι οι πλέον ικανοί να δεχθούν και να λειτουργήσουν μία τέτοια εγκατάσταση.
- Σαφώς το μέγεθος της διάταξης ορίζει και το κόστος αγοράς και τοποθέτησης, όμως η παραγόμενη ενέργεια είναι αρκετή ώστε να έχουμε απόσβεση του κόστους αγοράς πολύ σύντομα, (εδώ μόνο ~2 έτη) και πολλά κερδοφόρα χρόνια.

Σημαντικό

Στο παράδειγμα η μελέτη αφορά μόνο στην παραγωγή ενέργειας και την εγκατάσταση της μικρο – τουρμπίνας. Δε γίνεται υπολογισμός των επιπτώσεων στις υδατικές απώλειες του δικτύου.

Η εφαρμογή της τουρμπίνας οδηγεί και σε πτώση της κατάντι πίεσης, με αποτέλεσμα τον περιορισμό των πιέσεων όλων των κόμβων έπειτα. Άρα επιτυγχάνεται διαχείριση της πίεσης η οποία μπορεί να αποδώσει μεγάλα οφέλη στη διαχείριση του δικτύου και στην οικονομία των υδατικών πόρων.

Παράδειγμα ενεργειακής αυτάρκειας μέσω χρήσης μ.τ.

Περίπτωση μελέτης, η χερσόνησος Sorrento.

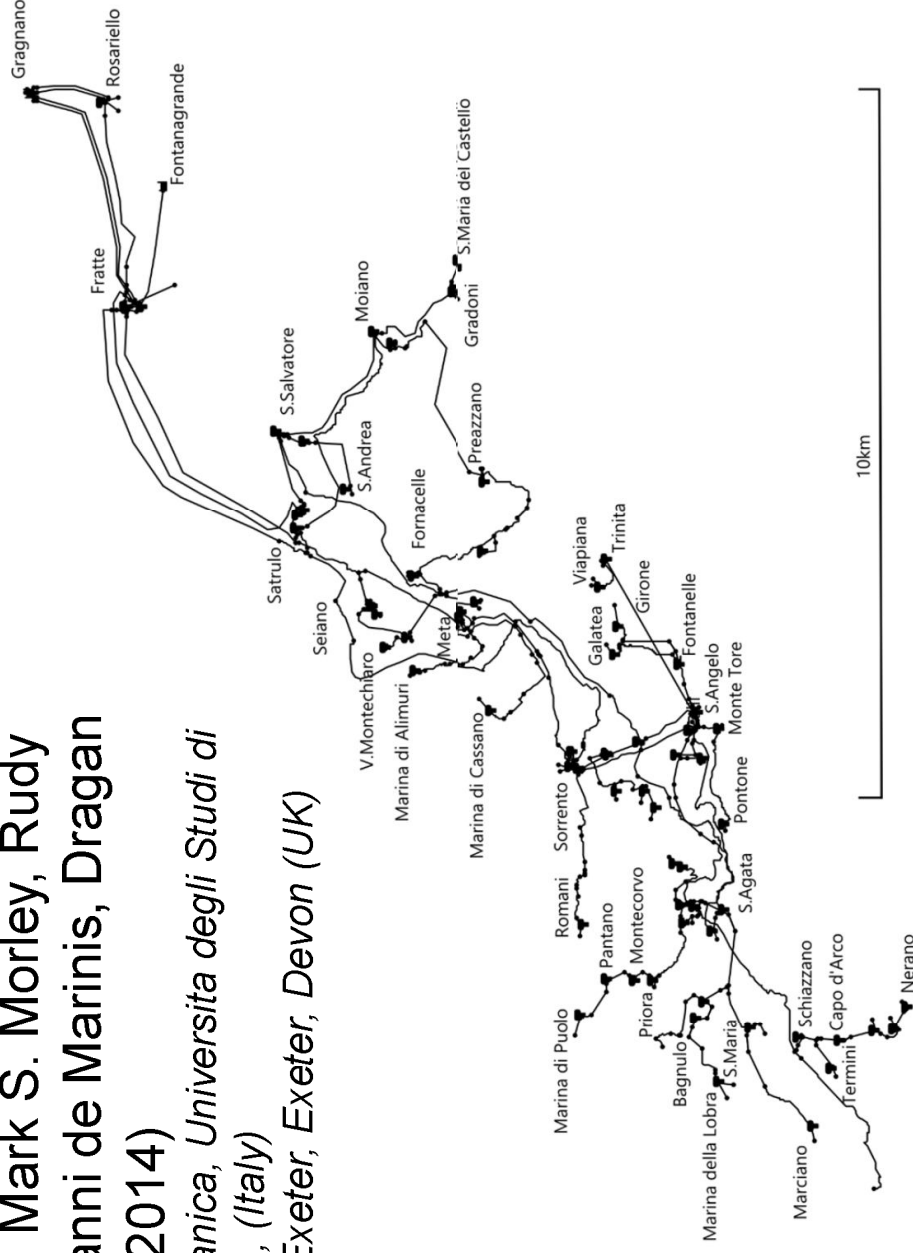


Παράδειγμα ενεργειακής αυτάρκειας μέσω χρήσης μ.τ.

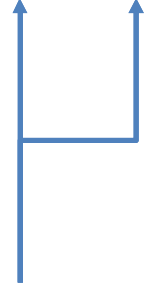
Ομάδα μελέτης: Carla Tricarico, Mark S. Morley, Rudy Gargano, Zoran Kapelan, Giovanni de Marinis, Dragan Savić and Francesco Granata (2014)

Dipartimento di Ingegneria Civile e Meccanica, Università degli Studi di Cassino e del Lazio Meridionale, Cassino, (Italy)
Centre for Water Systems, University of Exeter, Exeter, Devon (UK)

- Εξυπηρέτηση 90.000 μόνιμων χρηστών και 70.000 εποχιακών.
- Δίκτυο 68 δεξαμενών και 13 αντλιών (boosters)
- 10 εγκατεστημένες PRVs (pressure release valves)



Παράδειγμα ενεργειακής αυτάρκειας μέσω χρήσης μ.τ.

- Αντικείμενο μελέτης: η βέλτιστη διαχείριση δικτύου παροχής νερού, μέσω διαχείρισης της πίεσης και ανάκτησης ενέργειας.
- Στόχος μελέτης: η κάλυψη των ενεργειακών καταναλώσεων των αντλιοστασίων από την ανάκτηση ενέργειας μέσω μικρο-τουρμπινών.
- Μεθοδολογία: ελαχιστοποίηση 

Ετήσιο κόστος άντλησης
– ετήσιο εισόδημα μ.τ.

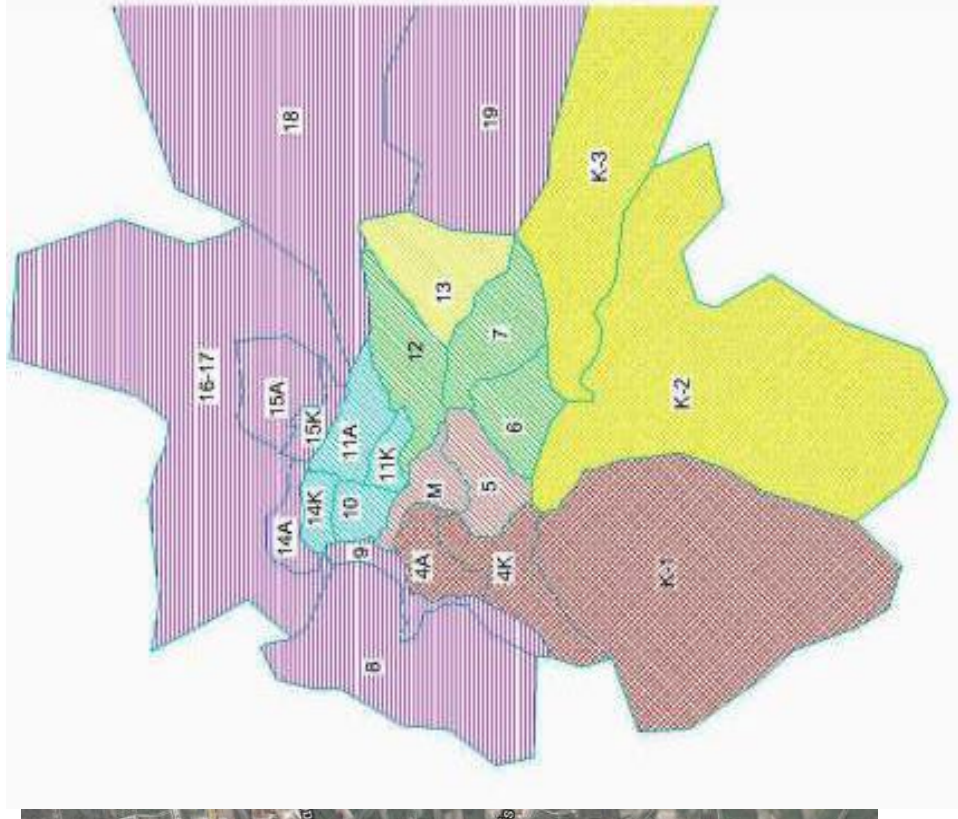
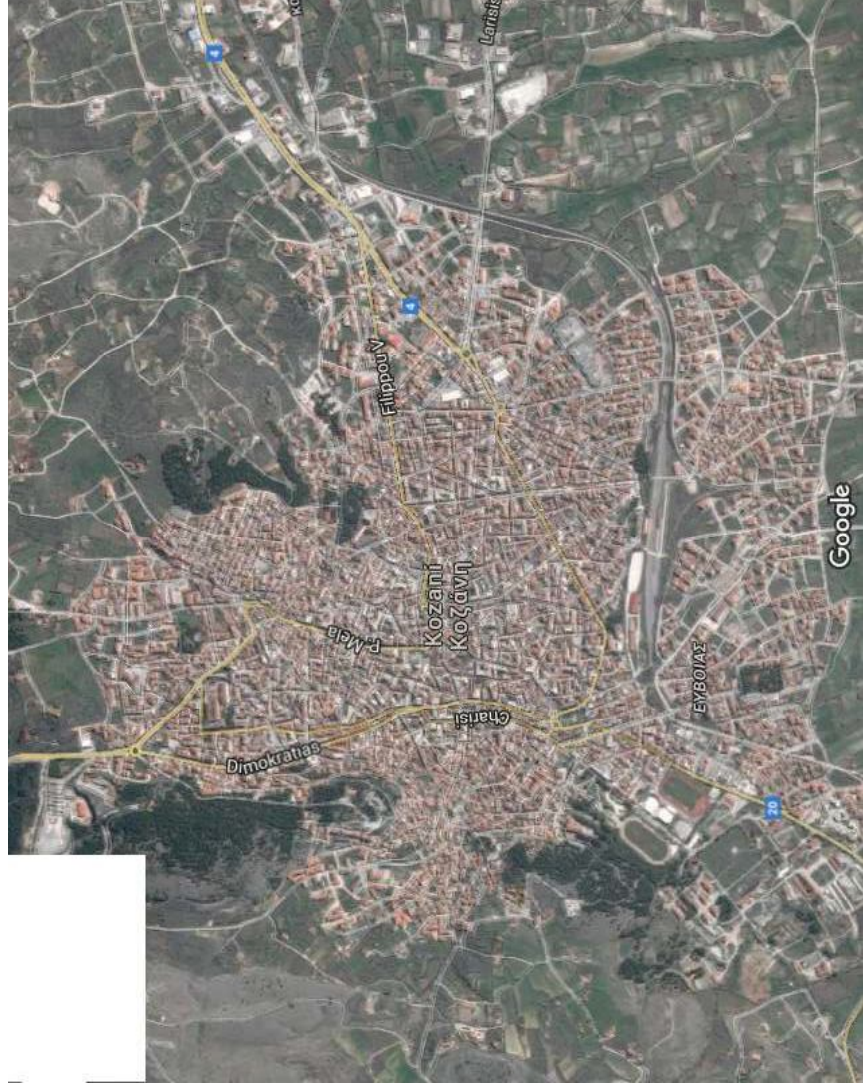
Αντικατάσταση των PRVs
με μικρο-τουρμπίνες.



$$\begin{array}{ccc} \text{Εκτίμηση αποδιδόμενης} & + & \text{Μείωση διαρροών} \\ \text{ενέργειας από τις μ.-τ.} & & \text{από έλεγχο της} \\ & & \text{πίεσης.} \end{array} \quad \begin{array}{c} \text{=} \\ \text{=} \end{array} \begin{array}{c} \text{(υπό συνθήκες)} \\ \text{Ενεργειακή} \\ \text{Αυτάρκεια} \end{array}$$

Υδραυλική προσομοίωση μικρο-τουρμπίνας

Εφαρμογή σε υδραυλικά απομονωμένη περιοχή της Κοζάνης μέσω του λογισμικού Watercad v8i.



Υδραυλική προσομοίωση μικρο-τουρμπίνας



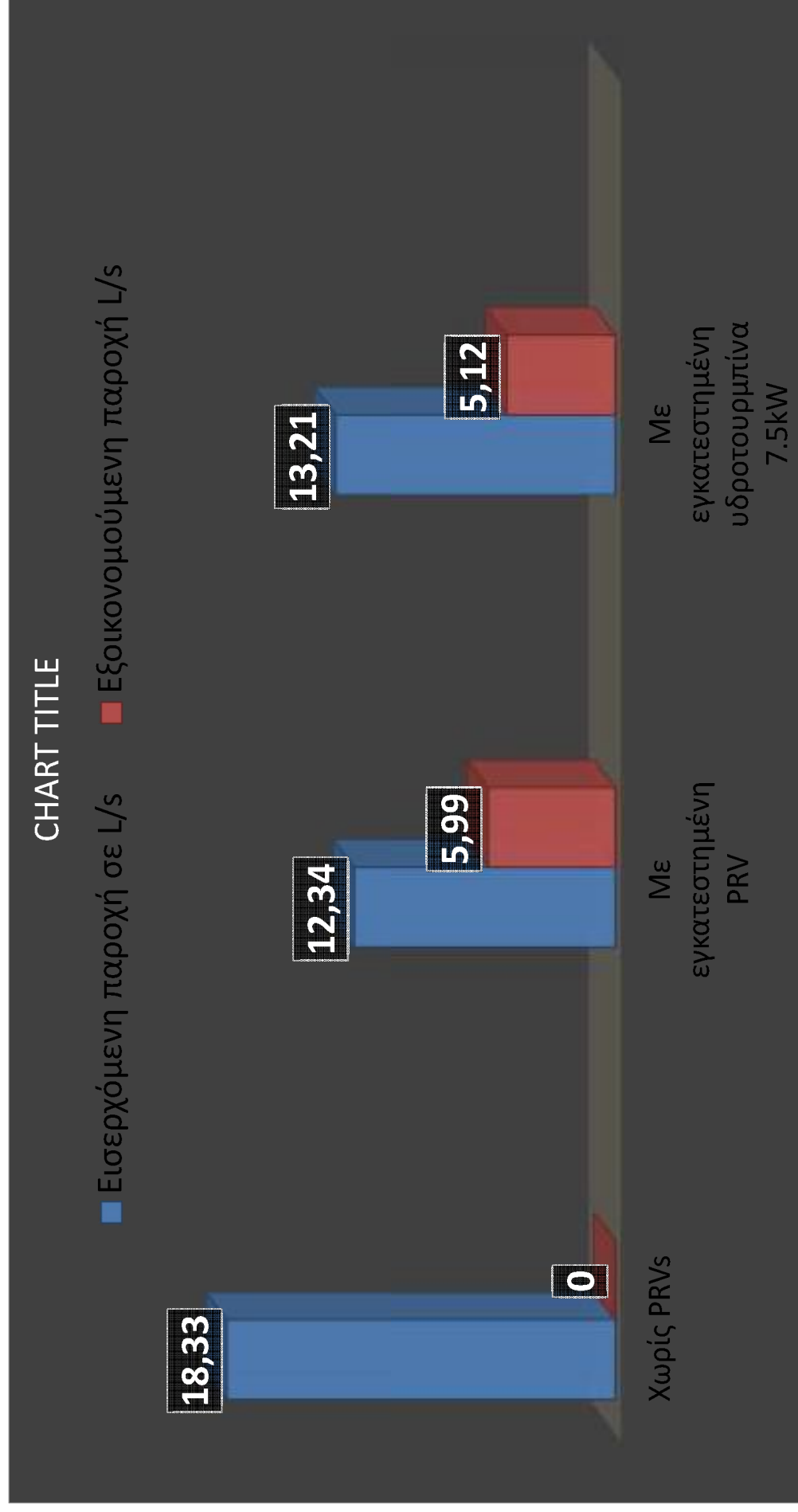
Το δίκτυο της κοζάνης. (Πράσινο χρώμα, οι ανοικτοί αγωγοί. Κόκκινο οι κλειστοί αγωγοί. Μπλε οι PRVs. Μαύρη η μικρο-τουρμπίνα.)



Υδραυλική προσομοίωση μικρο-τουρμπίνας

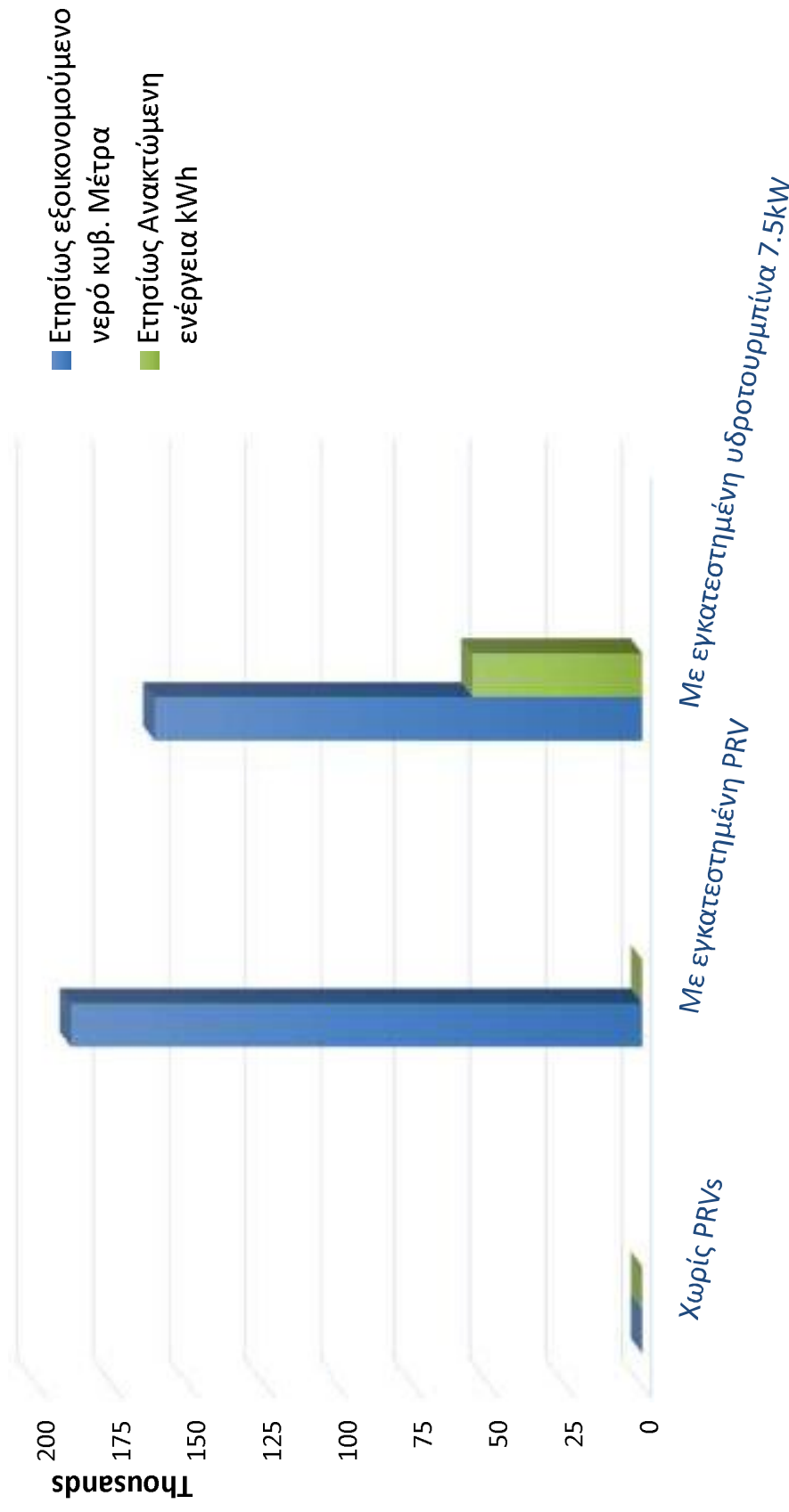
	Σενάρια		
	Χωρίς PRVs	Με εγκατεστημένη PRV	Με εγκατεστημένη υδροτουρμπίνα 7.5kW
Εισερχόμενη παροχή σε L/s	18,33	12,34	13,21
Εξοικονομούμενη παροχή L/s		5,99	5,12
Ετησίως εξοικονομούμενο νερό κυβ. Μέτρα		188.900,64	161.464,32
Ετησίως Ανακτώμενη ενέργεια kWh			55.845
Κόστος αγοράς & εγκατάστασης		€ 13.500,00	€ 18,500.00
Κόστος συντήρησης (ετησίως)		€ 675,00	€ 925,00
Αξία ανακτόμενης ενέργειας			€ 4.467,60
Αξία εξοικονομούμενου νερού (βάση κόστους άντλησης - μεταφοράς - χλωρίωσης) Ενδ. Τιμή κυβ. 1€		€ 188.900,64	€ 161.464,32

Υδραυλική προσομοίωση μικρο-τουρμπίνας



Εισερχόμενη και Εξοικονομούμενη παροχή L/s

Υδραυλική προσομοίωση μικρο-τουρμπίνας



Ετήσιο εξοικονομούμενο νερό και ετήσια ανακτώμενη ενέργεια.

Άλλες περιπτώσεις εφαρμογής μικρο - τουρμπινών

- Πόλη Ταμπρίζ, μία από τις κυριότερες πόλεις του Ιράν, εγκατεστημένη σε πρόποδες λόφων, με μεγάλη υψομετρική διακύμανση. Επένδυση ύψους 180.000\$, αποδίδει 133.000\$ ετησίως.
- Πολλές εφαρμογές στην **Κένυα**, παρέχουν ρεύμα σε περιφερειακές πόλεις με πάγιο κόστος που ξεκινά από 1.5\$ το μήνα.
- **Δημοκρατία του Λάος**, με τη χρήση μικρο – τουρμπινών ηλεκτροδοτήθηκε μεγάλο μέρος της περιφέρειας που δεν είχε πρόσβαση σε ηλεκτροδοτικό δίκτυο.
- Άλλα παραδείγματα είναι:
 - **Malhalm**, Βρετανία εγκατάσταση 5kW /
 - **Nagrak** Ινδονησία, μέρος γερμανικού προγράμματος ανταλλαγής τεχνολογίας, 4.8 kW
 - **Barnace**, Blackpool Βρετανία, 3.5 kW εγκατάσταση με μετρούμενη πτώση πίεσης 3bar σε σωλήνα παροχής της πόλης.
- Οι μικρο – τουρμπίνες αποτελούν μέρος του προγράμματος της Ε.Ε. Να αυξήσει μέχρι το 2020 κατά 50% την παραγωγή ηλεκτρικού ρεύματος μέσω της ανανεώσιμης πηγής του νερού και των φιλικών μικρο υδροηλεκτρικών έργων. Η Βρετανία μέχρι το 2010 παρήγαγε 110 MW από μικρά υδροηλεκτρικά με διαθέσιμο δυναμικό άλλων 400MW.



Έρευνα

Εδώ και 40 χρόνια δειλά έχουν γίνει κάποιες ερευνητικές εφαρμογές που αφορούν στη χρήση μικρο – τουρμπινών στα δίκτυα ύδρευσης. Όμως την τελευταία 10ετία έχει αναγνωρισθεί η αξία του εγχειρήματος και όλο και περισσότεροι φορείς ανά τον κόσμο επικεντρώνουν την προσοχή τους εδώ.

Η ερευνητική μας Ομάδα επικεντρώνεται στα παρακάτω:

1. **Βελτιστοποίηση πλήθους και συνδυασμών διατάξεων** μικρο – τουρμπινών, που ένα δίκτυο μπορεί να φέρει αποτελεσματικά. Εφαρμόζονται πειράματα σε υδραυλικά μοντέλα δικτύων ύδρευσης ελληνικών πόλεων.
2. **Ανάλυση χαρακτηριστικών και μεταβλητών** που επηρεάζουν το διαθέσιμο δυναμικό ενέργειας ενός δικτύου ύδρευσης. Δημιουργία αλγορίθμου υπολογισμού δυναμικού.
3. Χρήση μικρο – τουρμπινών για ανάκτηση ενέργειας αλλά και για έλεγχο υδατικών απωλειών, βελτιστοποίηση επιλεγόμενου εξοπλισμού για συνδυαστικά αποτελέσματα.
4. **Οικονομοτεχνική ανάλυση** και προώθηση/προβολή των πλεονεκτημάτων της χρήσης μικρο – τουρμπινών στα δίκτυα ύδρευσης.

Επίλογος

Ολοκληρώνοντας την παρουσίαση πρέπει να σημειωθούν:

- Τα δίκτυα είναι ικανά να καλύπτουν τις ενεργειακές του απαιτήσεις, ανακτώντας από μέσα τους ενέργεια, με τη βοήθεια των μικροτουρμπινών. Δύναται ακόμα και η πώληση περίσσειας ενέργειας.
- Οι μικρο – τουρμπίνες είναι προσιτές οικονομικά, εύκολες στην τοποθέτηση και διαχείριση αφού η χρήση τους είναι ευρεία και σε άλλες εφαρμογές.
- Τα χαρακτηριστικά απόδοσης των τουρμπινών μπορούν να είναι πολύ ελκυστικά, μα χρειάζεται άψογη μελέτη πριν την εφαρμογή τους. Μία λάθος θέση μπορεί να μηδενίσει την παραγωγικότητα της διάταξης, καθώς και η λάθος επιλογή εξοπλισμού μπορεί να δημιουργήσει θέματα τροφοδοσίας στους κατάντι της καταναλωτές προκαλώντας μεγάλη δυσανασχέτηση.



Τέλος

Ευχαριστώ για την προσοχή σας.

Παρουσίαση: Κανακούδης Βασίλειος, Αναπληρωτής καθηγητής Π.Θ.
Πατέλης Μενέλαος, Υποψ. Διδάκτωρ Π.Θ.
Επιμέλεια παρουσίασης: Πατέλης Μενέλαος, Υποψ. Διδάκτωρ Π.Θ.



Ευχαριστώ!!

Ομάδα Πανεπιστημίου Θεσσαλίας

Συντονιστής: Αναπλ. Καθ. Βασίλης Κανακούδης

Δρ. Σταυρούλα Τσιτσιφλή (Αναπλ. Συντον. Τεχνικού Αντικειμένου)
Αναστασία Παπαδοπούλου (Αναπλ. Συντον. Οικον. Αντικ. & Τεχνική Υποστ.)

Αλεξάνδρα Ρουβά (Τοπικός Συντονιστής)
Ιωάννα Χυτήρη (Βοηθός Τοπικού Συντονιστή)

Αλέξανδρος Πρίγκος (Financial Auditor)

Ιφιγένεια Αργυριάδου (Τεχνική Υποστήριξη)

Ευμορφία Δροσίτη (Τεχνική Υποστήριξη)

Κέρκυρα, 22 Σεπτεμβρίου 2015

Let's grow up together



DRINK ADRIA



Adriatic IPA
GROWING TOGETHER



The project is co-funded by the European Union,
Instrument for Pre-Accession Assistance



UNIVERSITY OF THESSALY

Εύρεση του σημείου ισορροπίας της αποδοτικής και της ανταποδοτικής χρήσης του νερού σε ένα αστικό δίκτυο

Πανεπιστήμιο Θεσσαλίας, Ελλάδα
Συντονιστής: Αναπλ. Καθηγ. Βασίλης Κανακούδης

Κέρκυρα, 21 Σεπτεμβρίου 2015



DRINK ADRIA



The project is co-funded by the European Union,
Instrument for Pre-Accession Assistance

ΑΝΑΛΥΣΗ ΤΗΣ ΜΕΘΟΔΟΛΟΓΙΑΣ ΕΥΡΕΣΗΣ ΤΟΥ ΣΗΜΕΙΟΥ ΙΣΟΡΡΟΠΙΑΣ ΤΗΣ ΑΠΟΔΟΤΙΚΗΣ ΚΑΙ ΤΗΣ ΑΝΤΑΠΟΔΟΤΙΚΗΣ ΧΡΗΣΗΣ ΝΕΡΟΥ ΤΩΝ ΔΙΚΤΥΩΝ ΥΔΡΕΥΣΗΣ



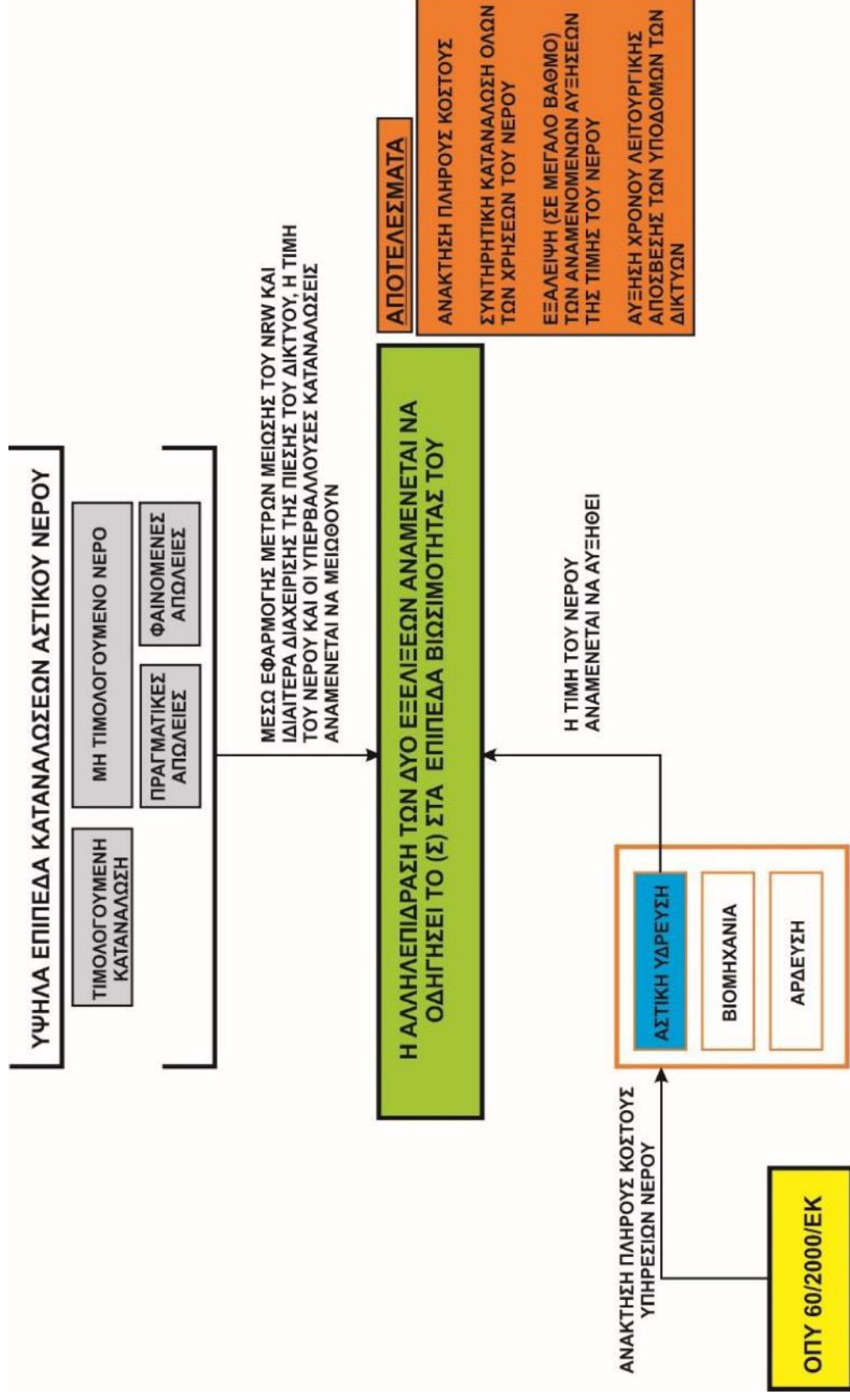
ΕΙΣΑΓΩΓΗ

Τα γενικά προβλήματα που απορρέουν από την εφαρμογή της ΟΠΥ 2000/60ΕΚ για την πλήρη κοστολόγηση του νερού, και τα οποία συγκροτούν έναν ενιαίο προβληματισμό, είναι:

1. Ο καθορισμός του τρόπου υπολογισμού του πλήρους κόστους του νερού.
2. Η δίκαιη κατανομή των οικονομικών βαρών που θα κληθούν να πληρώσουν οι διάφορες ομάδες καταναλωτών του νερού.
3. Η ευθύνη των εταιρειών ύδρευσης για τον καθορισμό πολιτικών μείωσης του **NRW**, ώστε να σταματήσουν οι καταναλωτές να πληρώνουν το νερό που «χάνεται» λόγω ελλείπων πολιτικών διαχείρισης του.
4. Η αποφυγή μείωσης της κατά κεφαλή κατανάλωσης νερού κάτω από τα «απαραίτητα» όρια διαβίωσης για τον σύγχρονο άνθρωπο.
5. Ο συνδυασμός της διαθεσιμότητας των υδατικών πόρων, των οικονομικών δυνατοτήτων των καταναλωτών, των πολιτικών διαχείρισης των δικτύων για την επίτευξη επιπέδου βιωσιμότητας των καταναλώσεων όλων των χρήσεων (συμπεριλαμβανομένων των απωλειών νερού).



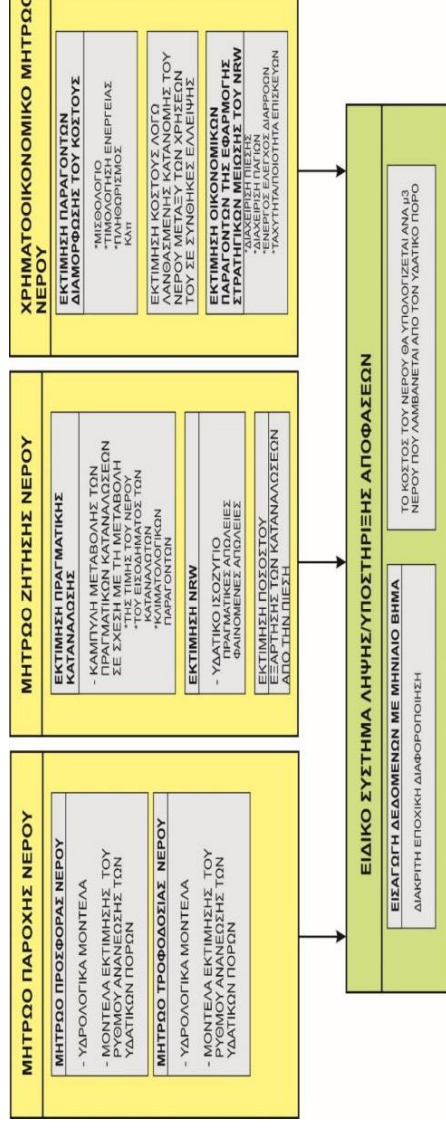
ΣΧΗΜΑΤΙΚΗ ΑΠΕΙΚΟΝΙΣΗ ΤΟΥ ΕΥΡΥΤΕΡΟΥ ΠΛΑΙΣΙΟΥ



ΑΝΑΠΤΥΞΗ ΤΗΣ ΜΕΘΟΔΟΛΟΓΙΑΣ

Πολλά μοντέλα πρέπει να συνδυαστούν για την εύρεση του επιπέδου βιωσιμότητας των καταναλώσεων του συστήματος. Τα μοντέλα αυτά θα πρέπει να προβλέπουν το χώρο-χρονική μεταβολή συγκεκριμένων παραμέτρων, όπως:

- το επίπεδο των αποθεμάτων των υδατικών πόρων και τον ρυθμό ανανέωσης τους. Τα σενάρια που προκύπτουν αποτελούν το «μητρώο προσφοράς νερού», το οποίο μαζί με τη μεταβολή της τροφοδοτικής ικανότητας του δικτύου ύδρευσης θα αποτελέσουν το «μητρώο παροχής νερού».
- το μοντέλο ζήτησης νερού για κάθε είδος χρήσης, λαμβάνοντας υπόψη τους παράγοντες που επηρεάζουν το επίπεδο της ζήτησης (π.χ. το εισόδημα, την τιμή, το μέγεθος της ιδιοκτησίας), καθώς και εξωτερικούς παράγοντες (π.χ. πρακτικές λειτουργίας και συντήρησης του δικτύου του κλίματος, απώλειες νερού). Τα αποτελέσματα θα αποτελούν το «μητρώο ζήτησης του νερού».
- τα στοιχεία της οικονομίας που καθορίζονται την διαμόρφωση των κόστων, τις νέες τεχνολογίες και την επιρροή τους στα κόστη, τα επίπεδα κέρδους των εναλλακτικών (ανταγωνιστικών) χρήσεων νερού σε συνθήκες λειψυδρίας κλπ. Τα αποτελέσματα θα αποτελούν το «χρηματοοικονομικό μητρώο του νερού».



ΚΑΘΟΡΙΣΜΟΣ ΤΩΝ ΒΗΜΑΤΩΝ 1/3

Πριν την επίτευξη της παραπάνω ισορροπίας του (Σ), απαιτείται να εφαρμοστούν στρατηγικές μείωσης των πραγματικών απωλειών. Η επίτευξη ισορροπίας του (Σ) θα έρθει ως αποτέλεσμα τριών δράσεων:

- α) της πλήρους και βιώσιμης κοστολόγησης του νερού,
- β) της εκτίμησης της συμπεριφοράς των καταναλωτών στις αυξημένες τιμές και επομένως στην εφαρμογή πολιτικών συντηρητικής ζήτησης και
- γ) της εφαρμογής στρατηγικών μείωσης των πραγματικών απωλειών στα επίπεδα του **EARL** (Οικονομικά ανακτήσιμες πραγματικές απώλειες).



ΚΑΘΟΡΙΣΜΟΣ ΤΩΝ ΒΗΜΑΤΩΝ 2/3

Τα βήματα του σχεδίου δράσης που αναπτύχθηκε είναι τα εξής (ισχύουν για οποιαδήποτε στρατηγική μείωσης των απωλειών νερού επιλεγεί):

1. **Αξιολόγηση της τροφοδοτικής ικανότητας** του συστήματος (αποθέματα και ρυθμοί ανανέωσης υδατικών πόρων, ικανότητα κατασκευής νέων των έργων υδροληψίας, φέρουσα ικανότητα των αγωγών ύδρευσης).
2. **Παρακολούθηση** ολόκληρου του συστήματος (υδατικοί πόροι, τροφοδοσία, διανομή, αποθήκευση κλπ) με SCADA.
3. **Ανάπτυξη μοντέλου υδραυλικής προσομοίωσης** για ολόκληρο το σύστημα (χρήση δεδομένων από το SCADA για τη βαθμονόμηση και επαλήθευση του).
4. **Εκτίμηση των επιπέδων του [UARL](#)** με βάση την τρέχουσα πίεση λειτουργίας του δικτύου.
5. **Ανάπτυξη του υδατικού ισοζυγίου** του δικτύου ύδρευσης και εκτίμηση των επιπέδων NRW.
6. **Εκτίμηση των επιπέδων των ΑΚ, ΠΚ και ΚΦΠ με βάση την τρέχουσα συνολική ζήτηση νερού (διαδικασία εκ των προτέρων αξιολόγησης). Υπολογισμός του [FWC](#).**

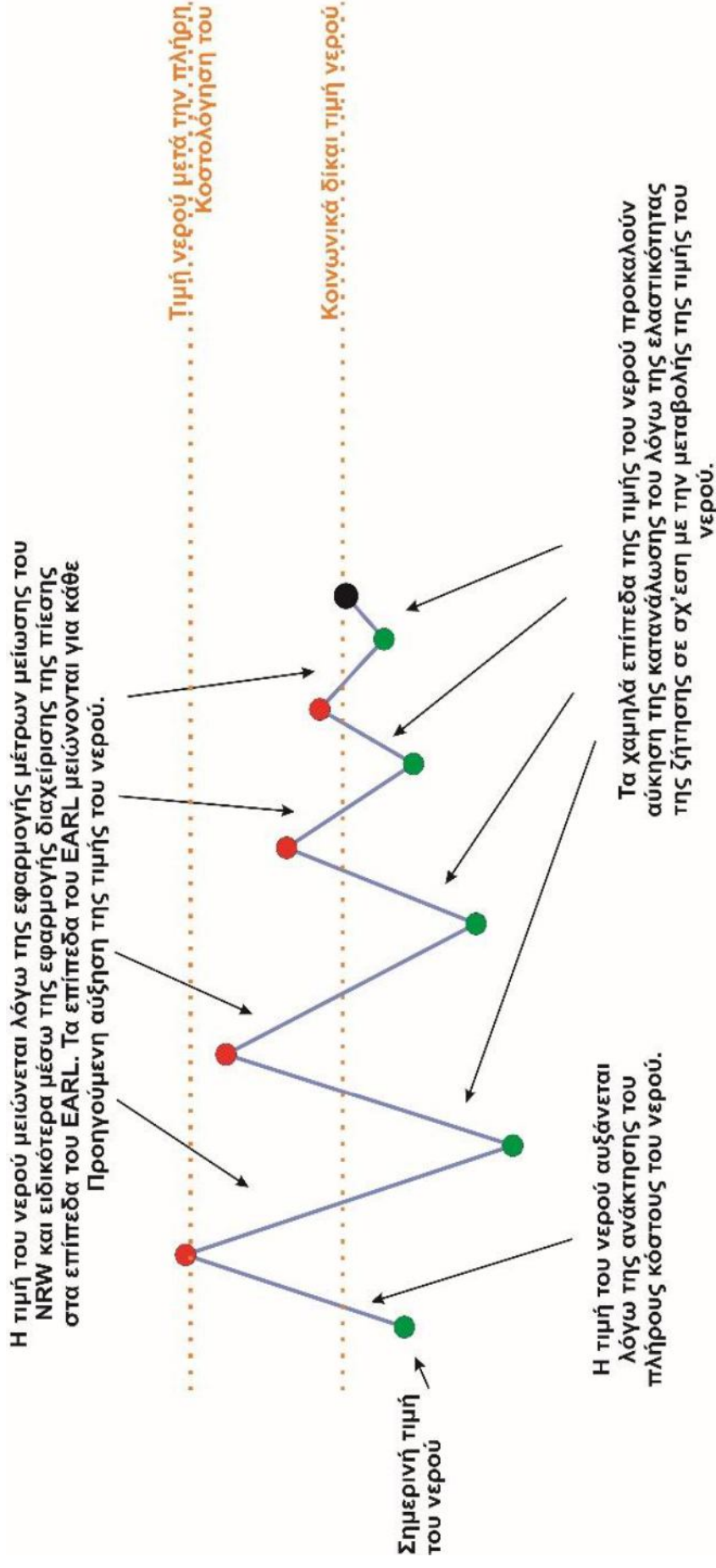


ΚΑΘΟΡΙΣΜΟΣ ΤΩΝ ΒΗΜΑΤΩΝ 2/2

7. Καθορισμός των νέων (υψηλότερων) επιπέδων των τιμών του νερού με βάση αυξημένα επίπεδα **FWC** (διαδικασία εκ των προτέρων αξιολόγησης). Αυτά τα υψηλότερα επίπεδα τιμών του νερού θα οδηγήσουν σε μείωση της συνολικής πραγματικής κατανάλωσης νερού λόγω ελαστικότητας της ζήτησης ως προς την τιμή (όπως η τιμή γίνεται υψηλότερη, η ζήτηση μειώνεται).
8. Καθορισμός του νέου επιπέδου (κάτω) της ζήτησης του νερού και του νέου (κάτω) επιπέδου του **EARL** με βάση τις νέες (υψηλότερες) τιμές του νερού (διαδικασία εκ των προτέρων αξιολόγησης).
9. Εφαρμογή διαχείρισης της πίεσης (π.χ. τμηματοποίηση, εγκατάσταση PRVs) ή άλλης πιο αποδοτικής στρατηγικής μείωσης των απωλειών νερού (με βάση ανάλυση κόστους-οφέλους).
10. Εκτίμηση των νέων (κάτω) επιπέδων **UARL** και των επιπέδων **NRW** με βάση τη μειωμένη πίεση λειτουργίας του δικτύου.
11. Εκτίμηση των νέων (κάτω) επιπέδων ΑΚ, ΚΦΠ και ΠΚ, λόγω της μειωμένης ζήτησης νερού (διαδικασία εκ των υστέρων αξιολόγηση). Υπολογισμός του νέου (κάτω) επιπέδου **FWC**.
12. Καθορισμός των νέων (κάτω) επιπέδων της τιμής του νερού με βάση το νέο (κάτω) επίπεδο του **FWC**. Αυτά τα επίπεδα χαμηλότερης τιμής του νερού θα "ωθήσουν" την συνολική πραγματική κατανάλωση νερού να αυξηθεί λόγω της ελαστικότητας της ζήτησης.
13. Καθορισμός της νέας ζήτησης του νερού και των επιπέδων του **EARL** με βάση τις νέες τιμές νερού.
14. Επανάληψη των βημάτων 9-13. Το σύστημα τελικά θα ισορροπήσει στο «επίπεδο βιωσιμότητας» του. Η όλη διαδικασία θα πρέπει να επαναλαμβάνεται σε κάθε μεταβολή της τιμολογιακής πολιτικής της εταιρείας ύδρευσης.



Η ΔΙΑΚΥΜΑΝΣΗ ΤΗΣ ΤΙΜΗΣ ΤΟΥ ΝΕΡΟΥ ΜΕΧΡΙ ΤΗΝ ΕΠΙΤΕΥΞΗ ΤΗΣ ΙΣΟΡΡΟΠΙΑΣ



ΕΥΡΕΣΗ ΕΛΛ ΤΗΣ ΔΙΑΧΕΙΡΙΣΗΣ ΤΗΣ ΠΙΕΣΗΣ

ΟΦΕΛΗ ΤΟΥ ΠΡΟΣΔΙΟΡΙΣΜΟΥ ΤΟΥ ELL (ECONOMIC LEVEL OF LEAKAGE)

Το ELL είναι το οικονομικά συμφέρον επίπεδο των πραγματικών απωλειών. Η μείωση του επιπέδου των πραγματικών απωλειών κάτω από αυτό, είναι οικονομικά ζημιογόνο. Ο υπολογισμός του είναι απαραίτητος γιατί:

- Προσδιορίζονται με σχετική ακρίβεια οι οικονομικά επιτεύξιμες πραγματικές απώλειες (Economic Annual Real Losses – EARL) ξεχωριστά για απώλειες υποβάθρου, εμφανείς και αφανείς διαρροές.
- Συμβάλλει στην βελτίωση της λειτουργικής αποδοτικότητας της επιχείρησης μέσω της μείωσης διαφόρων περιττών δαπανών λειτουργίας.
- Η οικονομική ανάλυση καταδεικνύει το επίπεδο των οικονομικών στόχων της μείωσης των διαρροών με βάση τη σχέση κόστους-οφέλους.
- Το ELL συνεπάγεται την εκτίμηση των κοστών και των οφελών από την εφαρμογή εναλλακτικών επιλογών μείωσης των πραγματικών απωλειών, και ως εκ τούτου τον προσδιορισμό της βέλτιστης στρατηγικής διαχείρισης των διαρροών.



ΠΡΟΣΔΙΟΡΙΣΜΟΣ ΤΩΝ ΟΙΚΟΝΟΜΙΚΩΝ ΟΦΕΛΩΝ ΑΠΟ ΤΗΝ ΜΕΙΩΣΗ ΤΗΣ ΠΙΕΣΗΣ 1/3

Α) Λόγω μείωσης του SIV (System Input Volume)

Ο όγκος του νερού που εξοικονομείται μεταβάλλεται στο χρόνο σύμφωνα με την μεταβολή του SIV. Η αξία της μείωσης του SIV σε κάθε έτος n από την εφαρμογή των μέτρων μείωσης του NRW υπολογίζεται σύμφωνα με την παρακάτω εξίσωση (Kanakoudis and Gonelas, 2015). Το οριακό κόστος που εξοικονομείται αρχικά ισούται με το **κόστος ενέργειας** και **αναλωσίμων της επεξεργασίας** κάθε κ.μ. εισερχόμενου νερού στο σύστημα ύδρευσης.

$$S_1(n) = [R_{SIV} * (1 + r_{SIV})^n * 365 * C_{marg}(E) + C_{marg}(T)] * (1 + r_n)^n$$

Όπου: S_1 (€) είναι η ετήσια εξοικονόμηση σε κάθε έτος n , R_{SIV} (μ³/ημέρα) είναι η ημερήσια μείωση του SIV της DMA, r_{SIV} (%) είναι η ετήσια μεταβολή του SIV, $C_{marg}(E)$ (€/m³) είναι το ενεργειακό κόστος όλων των διαδικασιών του αστικού νερού εκτός της διοίκησης, $C_{marg}(T)$ (€/m³) είναι το κόστος (αναλωσίμων) επεξεργασίας του νερού, r_n (%) είναι η ετήσια μεταβολή του πληθωρισμού και n είναι ο αριθμός των ετών από το έτος βάσης.



ΠΡΟΣΔΙΟΡΙΣΜΟΣ ΤΩΝ ΟΙΚΟΝΟΜΙΚΩΝ ΟΦΕΛΩΝ ΑΠΟ ΤΗΝ ΜΕΙΩΣΗ ΤΗΣ ΠΙΕΣΗΣ 2/3

Β) Λόγω μείωσης του ρυθμού νέων θραύσεων

Η μείωση της πίεσης μειώνει τον βαθμό εμφάνισης νέων διαρροών, λόγω του ότι οι υποδομές δεν λειτουργούν στα όρια αντοχής τους. Το ποσοστό μείωσης της συχνότητας εμφάνισης νέων θραύσεων αναφέρεται σε εύρος DMA και εξαρτάται από:

- Το υλικό των αγωγών
- την μέγιστη πίεση λειτουργίας
- το ποσοστό των νέων θραύσεων που δεν είναι εξαρτημένες από την πίεση.

Το οικονομικό όφελος υπολογίζεται ξεχωριστά για κάθε μια από τις παρεμβάσεις της διαχείρισης της πίεσης και για κάθε DMA, αφού πρώτα υπολογιστεί η μείωση της πίεσης που προκαλούν οι παρεμβάσεις ξεχωριστά σε κάθε DMA. Η μείωση του ρυθμού εμφάνισης νέων θραύσεων προκαλεί

- ✓ άμεσα οικονομικά οφέλη, όπως η μείωση του κόστους συντήρησης
- ✓ έμμεσα (δυναμικά) οφέλη όπως η μείωση των κοστών προσωπικού, ασφάλισης και λειτουργίας μεταφορικών μέσων.



ΠΡΟΣΔΙΟΡΙΣΜΟΣ ΤΩΝ ΟΙΚΟΝΟΜΙΚΩΝ ΟΦΕΛΩΝ ΑΠΟ ΤΗΝ ΜΕΙΩΣΗ ΤΗΣ ΠΙΕΣΗΣ 3/3

Β) Λόγω μείωσης του ρυθμού νέων θραύσεων

Τα οικονομικά οφέλη από την μείωση του ρυθμού νέων θραύσεων λόγω μείωσης της πίεσης υπολογίζονται σύμφωνα με τις παρακάτω εξισώσεις ([Kanakoudis and Gonelas, 2015](#)).

$$S_{2i(n)} = [(a_c * a_{Nci}) + (a_m * a_{Lmi})] * BF_R * a_{OM4} * OM_4^*$$

Όπου: a_c είναι το ποσοστό των θραύσεων αγωγών συνδέσεων επί των συνολικών θραύσεων, a_{Nci} είναι το ποσοστό των συνδέσεων της DMA επί των συνολικών συνδέσεων, a_m είναι το ποσοστό των θραύσεων αγωγών διανομής επί των συνολικών θραύσεων, a_{Lmi} είναι το ποσοστό του μήκους αγωγών της DMA επί του συνολικού μήκους αγωγών του δικτύου, OM_4^* είναι το κόστος συντήρησης όλων των διαδικασιών πλην της διοίκησης σε € και a_{OM4} είναι συντελεστής που προσδιορίζει το ποσοστό επί του κόστους συντήρησης OM_4 που δαπανάται για τις αποκαταστάσεις των θραύσεων.

$$S_{3i(n)} = [(a_c * a_{Nc}) + (a_m * a_{Lm})] * BF_R * (a_{LR15}$$

Όπου: OM_{15} είναι το κόστος προσωπικού της διαδικασίας της ύδρευσης, OM_{65} είναι το κόστος ασφάλισης της διαδικασίας της ύδρευσης, OM_{85} είναι το κόστος λειτουργίας μεταφορικών μέσων της διαδικασίας της ύδρευσης, a_{LR15} είναι ο συντελεστής επιρροής κόστους στο κόστος προσωπικού λόγω διαρροών και θραύσεων σε αγωγούς διανομής και συνδέσεων, a_{LR65} είναι ο συντελεστής επιρροής κόστους στο κόστος ασφάλισης λόγω διαρροών και θραύσεων σε αγωγούς διανομής και συνδέσεων και a_{LR85} είναι ο συντελεστής επιρροής κόστους στο κόστος ασφάλισης λόγω διαρροών και θραύσεων σε αγωγούς διανομής και συνδέσεων.



ΠΡΟΣΔΙΟΡΙΣΜΟΣ ΤΩΝ ΟΙΚΟΝΟΜΙΚΩΝ ΕΚΡΩΣΗΝ ΑΠΟ ΤΗΝ ΕΦΑΡΜΟΓΗ ΔΙΑΧΕΙΡΙΣΗΣ ΤΗΣ ΠΙΕΣΗΣ

Α) Η αγορά, εγκατάσταση (και αντικατάσταση) του εξοπλισμού.

$$O_1(n) = I_1 * (1 + r_n)^n$$

Όπου: O_1 (€) είναι οι ετήσιες οικονομικές εκροές για την αγορά και εγκατάσταση του εξοπλισμού και I_1 (€) το αρχικό κόστος αγοράς και εγκατάστασης εξοπλισμού στο έτος 0.

Β) Συντήρηση και διαχείριση του εξοπλισμού.

$$O_2(n) = I_2 * (1 + r_n)^n$$

όπου O_2 (€) είναι οι ετήσιες οικονομικές εκροές για την συντήρηση και διαχείριση του εξοπλισμού και I_2 (€) το αρχικό κόστος συντήρησης και εξοπλισμού στο έτος 0.

Δ) Έξοδα μελετών

Γ) Απώλεια εσόδων λόγω μείωσης της πίεσης.

Σημαντική απώλεια εισοδημάτων προκαλείται από την μείωση της πίεσης του συστήματος. Οι ποσότητες του νερού οι οποίες καταγράφονται από τα υδρόμετρα και αποφέρουν έσοδα, μεταβάλλονται μέσω της μεταβολής της πίεσης και επακόλουθα της μεταβολής του SIV.

$$O_3(n) = \left[a_{PDD} * \left(\frac{Q_{RW}}{Q_{SIV}} \right) * R_{SIV} * (1 + r_{SH}) * 365 * p_{marg} \right] * (1 + r_n)^n$$

Όπου: O_3 είναι η ετήσια απώλεια εσόδων σε €, a_{PDD} είναι το ποσοστό της μετρούμενης κατανάλωσης που είναι εξαρτημένη από την πίεση, Q_{RW} είναι ο όγκος της μετρούμενης κατανάλωσης, Q_{SIV} είναι ο όγκος του εισερχόμενου νερού, p_{marg} είναι η οριακή τιμή του νερού σε €/μ³.



ΟΛΟΚΛΗΡΩΣΗ ΤΟΥ ΜΗΧΑΝΙΣΜΟΥ ΕΥΡΕΣΗΣ ΤΟΥ ΕΠΙΠΕΔΟΥ ΒΙΩΣΙΜΟΤΗΤΑΣ ΤΩΝ ΑΠΟΔΟΤΙΚΩΝ ΚΑΙ ΑΝΤΑΠΟΔΟΤΙΚΩΝ ΧΡΗΣΕΩΝ ΑΣΤΙΚΟΥ ΝΕΡΟΥ



ΟΛΟΚΛΗΡΩΣΗ ΤΟΥ ΜΗΧΑΝΙΣΜΟΥ

Η προτεινόμενη μεθοδολογία υπολογίζει το σημείο ισορροπίας μεταξύ όλων των χρήσεων του αστικού νερού, μετά από την εφαρμογή διαχείρισης της πίεσης και την αύξηση της τιμής του νερού που θα επιφέρει η πλήρης κοστολόγηση του. Ο μηχανισμός αποτελείται από τα αρχεία τύπου «Α», «Β» και το κεντρικό αρχείο «Μ».

□ Το αρχείο Excel (επονομαζόμενα τύπου «Α») υπολογίζουν το ετήσιο υδατικό ισοζύγιο σε περίπτωση διαταραχής της σημερινής ισορροπίας του συστήματος λόγω της αύξησης της τιμής του νερού που θα οφείλεται στην προσπάθεια κάλυψης της αύξησης του πλήρους κόστους του νερού.

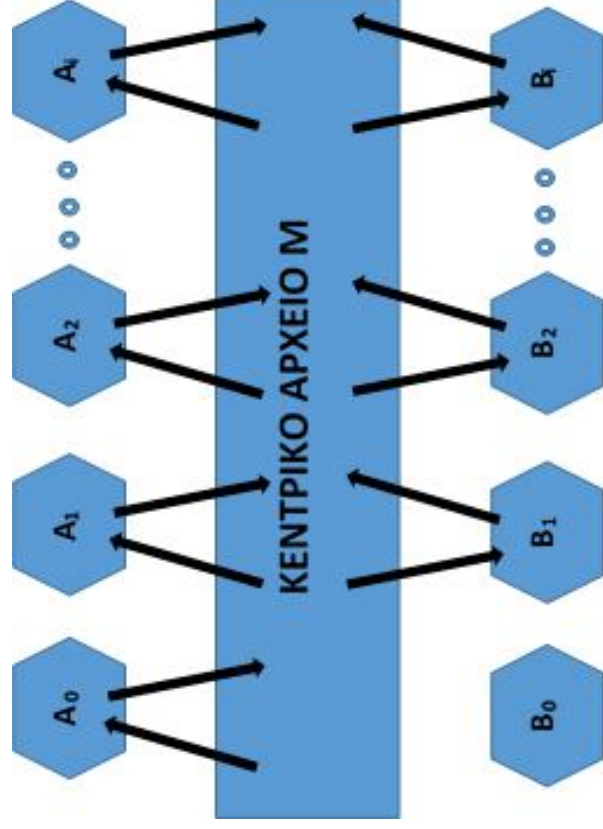
□ Στη συνέχεια, και για την νέα ισορροπία που προκύπτει, προσομοιώνεται η συμπεριφορά του (Σ), μέσω αρχείων Excel επονομαζόμενων τύπου «Β», για την εφαρμογή διαχείρισης της πίεσης στα όρια του **EARL**. Με βάση την νέα τιμή του νερού και το νέο κόστος, πραγματοποιείται υπολογισμός του **ELL** της διαχείρισης της πίεσης, της οποίας η εφαρμογή θα οδηγήσει το (Σ) σε νέα ισορροπία και νέο υδατικό ισοζύγιο. Οι όγκοι νερού των συστατικών του SIV της νέας ισορροπίας εισάγονται ξανά στα αρχεία τύπου «Α».

ΤΙΜΗ ΝΕΡΟΥ ↑
ΤΙΜΟΛΟΓΟΥΜΕΝΗ ΚΑΤΑΝΑΛΩΣΗ ↓
ΠΛΗΡΕΣ ΚΟΣΤΟΣ ΝΕΡΟΥ ↓
ΤΙΜΗ ΝΕΡΟΥ ↓
ΤΙΜΟΛΟΓΟΥΜΕΝΗ ΚΑΤΑΝΑΛΩΣΗ ↑
ΠΛΗΡΕΣ ΚΟΣΤΟΣ ΝΕΡΟΥ ↑
ΣΥΝΕΧΙΖΟΜΕΝΗ ΔΙΑΚΥΜΑΝΣΗ



ΟΛΟΚΛΗΡΩΣΗ ΤΟΥ ΜΗΧΑΝΙΣΜΟΥ

Για το νέο υδατικό ισοζύγιο υπολογίζεται εκ νέου το πλήρες κόστος του νερού και επαναλαμβάνεται η διαδικασία, η οποία συνεχίζεται μέχρι την σύγκλιση όλων των συστατικών του συστήματος στις βέλτιστες τιμές του. Μετά από αλληπάλληλα βήματα μεταβολής των παραγόντων, τελικά το σύστημα ισορροπεί, υπολογίζεται το **τελικό υδατικό ισοζύγιο**, η **τελική τιμή του νερού** που θα πληρώνουν οι καταναλωτές αλλά και το **τελικό πλήρες κόστος του νερού**. Οι παραπάνω υπολογισμοί γίνονται με την παραδοχή ότι το FWC (ανά κ.μ. εισερχόμενου νερού) μεταβάλλεται σύμφωνα με την μεταβολή του SIV.



Αρχεία Εντοπισμού της Ισορροπίας του (Σ)» - Τύπου Α

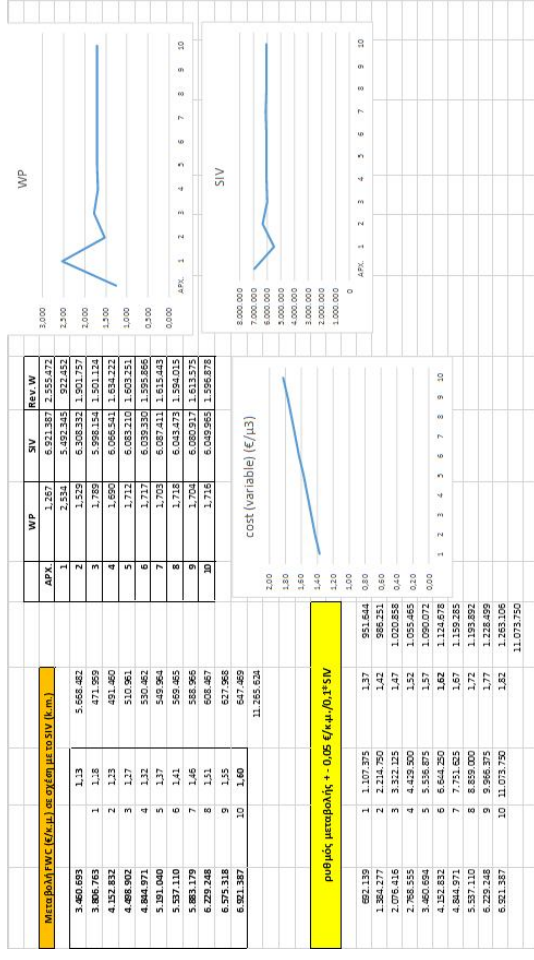
Τα αρχεία τύπου Α είναι αρχεία MS Excel στα οποία πραγματοποιείται η εύρεση της ισορροπίας του συστήματος λόγω μεταβολής της τιμής του νερού (WP) (Kanakoudis and Gonelas, 2015). Το σύστημα βρίσκεται σε μία αρχική ισορροπία η οποία διαταράσσεται λόγω αύξησης της τιμής του νερού, και μετά πραγματοποιούνται διαδοχικά βήματα μείωσης της τιμολογούμενης κατανάλωσης και μεταβολής των υπολοίπων συστατικών του SIV. Οι διακυμάνσεις όλων των μεγεθών έχουν συγκλίνοντα άκρα.

ΒΗΜΑ 1				ΒΗΜΑ 2				ΒΗΜΑ 3			
ΜΕΤΑΒΟΛΗ WP				ΜΕΤΑΒΟΛΗ WP				ΜΕΤΑΒΟΛΗ WP			
100,00%				-39,67%				17,05%			
έλαστ. της Q για την αυγκ. τιμή και την αυγκ. Αύξηση				έλαστ. της Q για την αυγκ. τιμή και την αυγκ. Αύξηση				έλαστ. της Q για την αυγκ. τιμή και την αυγκ. Αύξηση			
-0,693				-2,6798				-1,2863			
Μείωση SIV				Αύξηση SIV				Αύξηση SIV			
607,0				603,7				604,4			
5,492,345				6,308,332				5,998,154			
6,921,387				0				0			
4,015,256				3,975,233				3,997,251			
159,012				86,711				104,741			
127,774				127,774				127,774			
127,774				127,774				127,774			
140,078				139,083				139,490			
922,452				1,901,757				1,501,124			
4,569,893				4,406,575				4,497,030			
11,073,750				8,504,929				9,954,968			
1,60				1,37				1,51			
4,33				9,22				5,23			
2,534				1,529				1,789			
ΑΡΧΙΚΗ ΚΑΤΑΣΤΑΣΗ				ΑΡΧΙΚΗ ΚΑΤΑΣΤΑΣΗ				ΑΡΧΙΚΗ ΚΑΤΑΣΤΑΣΗ			
599,8				599,8				599,8			
6,921,387				6,921,387				6,921,387			
3,902,727				3,902,727				3,902,727			
69,214				69,214				69,214			
127,774				127,774				127,774			
127,774				127,774				127,774			
138,428				138,428				138,428			
2,555,472				2,555,472				2,555,472			
4,365,917				4,365,917				4,365,917			
7,835,967				7,835,967				7,835,967			
1,13				1,13				1,13			
3,07				3,07				3,07			
1,267				1,267				1,267			

Το περιβάλλον ενός αρχείου τύπου «Α».



Αποτυπώσεις των διακυμάνσεων των SIV, WP και της μεταβολής του κόστους ανά κ.μ. σε ένα αρχείο τύπου «Α».



Αρχεία «Υπολογισμού του EARL» - Τύπου Β.

Στα αρχεία τύπου «Β» πραγματοποιείται ο υπολογισμός του EARL με βάση την νέα WP και το νέο FWC που προέκυψαν από τα αρχεία τύπου «Α» (Kanakoudis and Gonelas, 2015). Στο αρχείο B_0 πραγματοποιείται για πρώτη φορά ο υπολογισμός του υδατικού ισοζυγίου μετά από την εφαρμογή της πίεσης στα όρια του EARL και συνεπώς και το ίδιο το επίπεδο του EARL. Όλα τα υπόλοιπα αρχεία B_i παίρνουν τιμές από το κεντρικό αρχείο M και υπολογίζουν εκ νέου τα παραπάνω. Τα αρχεία τύπου «Β» σε αντίθεση με τα αρχεία τύπου «Α», αποτελούνται από πολλά φύλλα εργασίας, στα οποία πραγματοποιούνται διαδοχικοί υπολογισμοί.

Υπολογισμοί μείωσης των
μεγίστων πιέσεων για κάθε
DMA μετά από κάθε
παρέμβαση μείωσης της
πίεσης.

ΠΑΡΕΜΒΑΣΕΙΣ														
DMA	ΑΡ. ΣΥΜ.	ΑΡΧΙΚΟ Διαγρ. DMA ₀	ΜΗΚΟΣ ΑΓ.	Α.Σ./1000	DMA	Μετά την Διαγρ. DMA ₀		Μετά την 1η BFηρδ/BF (Pmax)	Μετά την 2η BFηρδ/BF (Pmax)	Μετά την 3η BFηρδ/BF (Pmax)	Μετά την 4η BFηρδ/BF (Pmax)	Μετά την 5η BFηρδ/BF (Pmax)	Μετά την 6η BFηρδ/BF (Pmax)	Μετά την 7η BFηρδ/BF (Pmax)
						Διαγρ. DMA ₀	Διαγρ. DMA ₀							
K-1	401	6,69%	17,018	8,79%	23,57	684,4	687,5	0,40	461,3	0,60	294,1	0,60	273,7	0,8
K-2	295	4,92%	15,136	7,81%	19,50	901,2	812,4	0,20	430,6	0,60			312,5	0,8
K-3	217	3,61%	11,439	5,91%	18,94	760,4	682,7	0,40	298,2	0,80				
4K	277	4,61%	4,611	2,38%	59,98	683,9	644,5	0,40	415,6	0,60	280,3	0,60		
4A	390	6,51%	5,510	2,84%	70,83	4A	564,4	536,8	0,60	302,9	0,80			
5	332	5,55%	5,942	3,07%	55,95	5	708,5	700,8	0,40	466,3	0,60	250,3	0,60	
6	208	3,47%	4,494	2,32%	46,25	6	759,9	756,1	0,40	474,9	0,60			
7	228	3,80%	6,813	3,52%	33,42	7	654,5	653,5	0,40	373,8	0,80			
M	285	4,75%	4,308	2,22%	66,07	M	568,6	564,7	0,60	329,3	0,80		250,4	
8	231	3,88%	10,022	5,17%	23,07	8	477,9	604,7	0,60	600,7	0,40		278,3	0,8
9	258	4,31%	3,895	2,01%	66,32	9	509,1	500,9	0,60	497,6	0,60		260,7	0,8
10	211	3,52%	3,313	1,71%	63,73	10	514,1	520,5	0,60	420,1	0,60		282,6	0,8
11A	307	5,12%	5,356	2,77%	57,26	11A	443,1	381,6	0,60	285,2	0,80			
11K	196	3,27%	2,793	1,44%	70,28	11K	556,4	458,2	0,60	369,5	0,80			
12	473	7,88%	8,919	4,60%	53,05	12	572,4	565,9	0,60	363,3	0,80		345,9	0,8
13	181	3,02%	6,554	3,38%	27,59	13	713,8	690,5	0,40	259,8	0,80			
14A	141	2,35%	2,157	1,11%	65,24	14A	281,5	281,8	0,80	280,0	0,80			
14K	159	2,66%	3,045	1,57%	52,30	14K	411,3	403,2	0,60	296,4	0,80			
15A	155	2,59%	3,147	1,62%	49,38	15A	431,9	689,1	0,60	654,7	0,40			
15K	141	2,35%	2,509	1,30%	56,04	15K	657,7	433,2	0,40	430,3	0,60			
16	74	1,23%	2,701	1,39%	27,40	16	689,1	689,1	0,40	684,5	0,40			
17	516	8,61%	15,438	7,97%	33,42	17	403,9	417,9	0,60	415,1	0,60			
18	209	3,49%	36,499	18,84%	5,72	18	661,8	663,0	0,40	669,5	0,40			
19	110	1,84%	12,080	6,24%	9,12	19	1,030,5	994,4	0,05	573,3				
5995		1	193,699	1	1,054,43									



ΑΡΧΕΙΩΝ ΤΥΠΟΥ «Β»

[illegible]

Υπολογισμός των NPV των παρεμβάσεων διαχείρισης της πίεσης

[illegible]

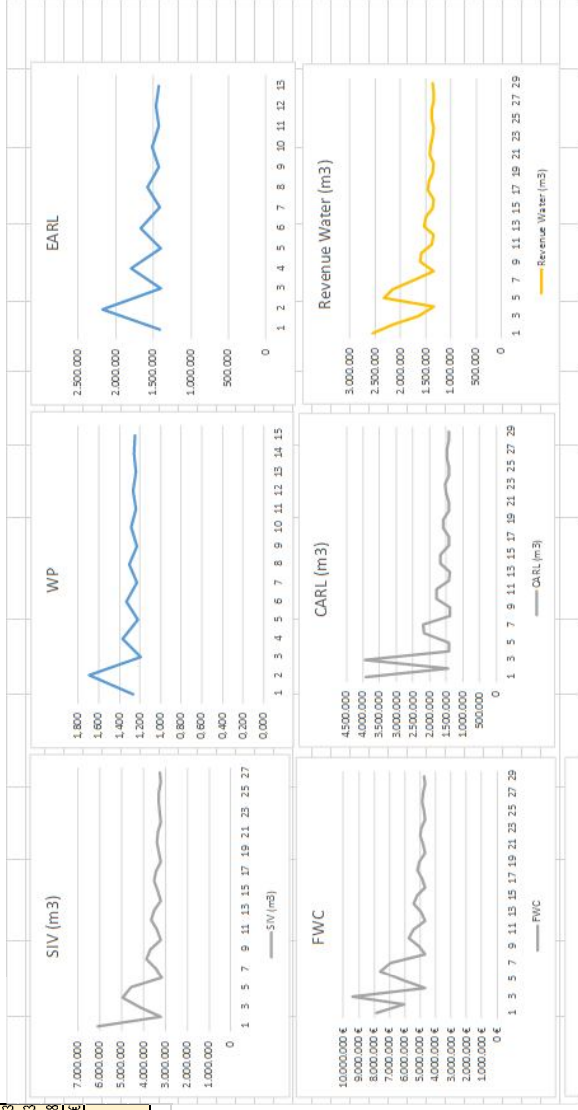
Υπολογισμός του νέου υδατικού ισοζυγίου
μετά από εφαρμογή της πίεσης στα όρια του
EARL

Το κεντρικό αρχείο Μ.

Στο κεντρικό αρχείο Μ στέλνουν και οι δύο τύποι αρχείων τα αποτελέσματα τους και από το αρχείο Μ εισάγουν τα δεδομένα τους που αποτελούν αποτελέσματα των αμέσως προηγούμενων βημάτων. Στο αρχείο Μ υπολογίζεται πρωτογενώς μόνο το FWC για τα αρχεία B_i. Στο παρόν αρχείο υπολογίζεται επίσης και ο δείκτης UARL του οποίου η μεταβολή σε ένα δίκτυο ύδρευσης σχετίζεται με την μεταβολή της πίεσης .

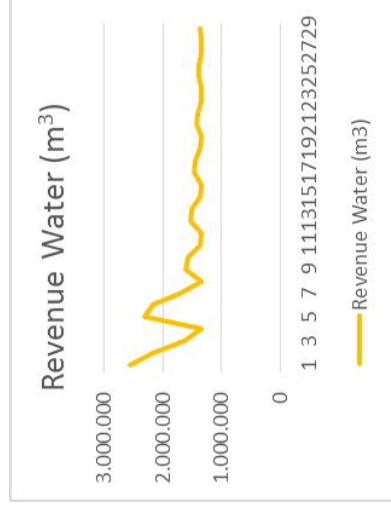
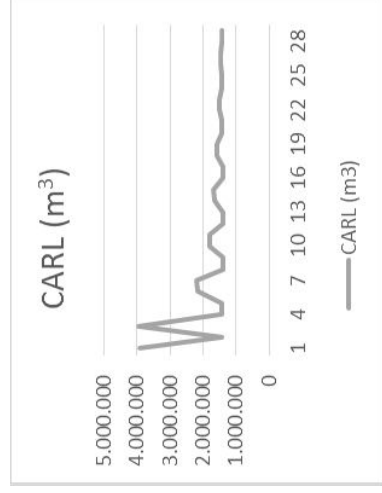
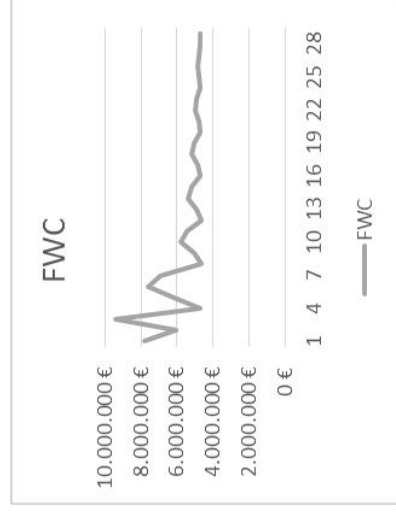
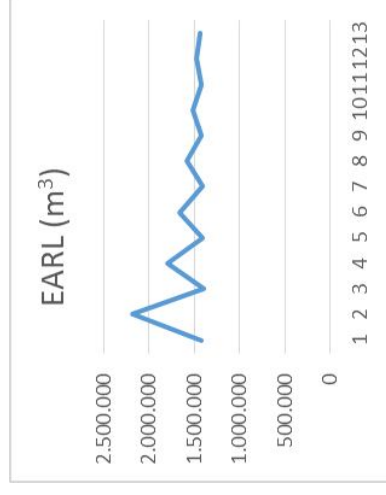
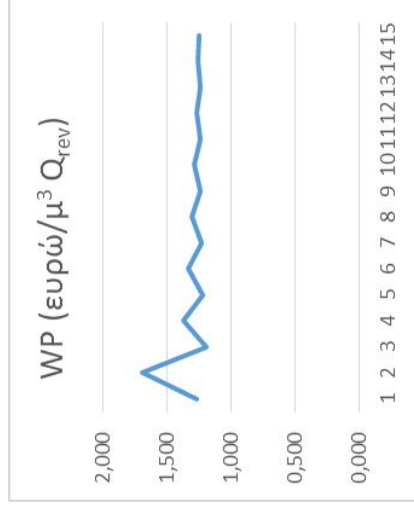
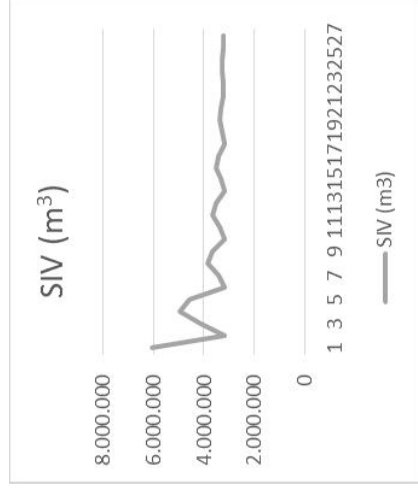
	ΑΡΙΘΜΟΣ ΜΕΤΑΣΤΑΣΗΣ	ΕΠΙΠΕΔΟ EARL B0	ΙΣΟΡΡΟΠΙΑ EARL A0	ΕΠΙΠΕΔΟ EARL B1	ΙΣΟΡΡΟΠΙΑ EARL A1	ΕΠΙΠΕΔΟ EARL B2	ΙΣΟΡΡΟΠΙΑ EARL A2	ΕΠΙΠΕΔΟ EARL B3	ΙΣΟΡΡΟΠΙΑ EARL A3	ΕΠΙΠΕΔΟ EARL B4	ΙΣΟΡΡΟΠΙΑ EARL A4
1 Πίεση (Kpa)	599,8	232,3	603,8	235,4	232,1	251,2	252,2	231,3	230,5	246,9	247,4
2 SV (m3)	6392,389	4039,684	6066,541	3201,279	4162,508	4597,736	4586,960	3190,920	3437,219	3866,645	3682,011
3 UARL (m3)	568,091	220,033	571,893	222,915	219,838	237,931	238,828	219,109	218,263	233,795	234,344
4 EARL (m3)		1.447,348		1.417,417		2179,179		1.399,126		1.789,805	
5 CARL (m3)	3.992,727	1.447,348	3.939,636	1.417,417	1.428,918	2179,179	2.194,177	1.399,126	1.395,913	1.789,805	1.797,665
6 FWC (m3)	69,214	58,488	97,780	79,952	52,468	129,186	153,235	79,824	69,527	94,353	104,567
7 Reading errors (m3)	127,774	107,975	127,774	104,478	104,478	168,814	168,814	104,312	104,312	123,293	123,293
8 Στοιμότητα (m3)	127,774	148,405	127,774	148,218	148,218	147,314	147,314	149,725	149,725	147,824	147,824
9 εφ. Μη τυπ. Καταν.	138,408	116,978	138,395	113,947	112,375	184,115	184,808	113,768	113,327	134,467	134,783
10 Revenue Water (m3)	2555,472	2159,488	1.634,222	1.336,266	2.315,048	2159,127	1.777,615	1.394,147	1.604,414	1.516,906	1.373,889
11 NetW (m3)	4.365,917	1.880,195	4.432,319	1.865,013	1.847,457	2.808,609	2.848,347	1.846,755	1.832,805	2.289,739	2.308,118
12 FWC	7.835,9616	6.046,108	9.400,4686	4.695,729	6.226,8524	7.600,019	6.971,8624	4.663,636	5.367,3846	5.763,993	5.463,4456
13 FWC (€/m3 UEPV)	1,132		1,460		1,179		1,272		1,132		1,132
14 FWC (€/m3 REV)	3,066		6,262		2,703		4,029		3,158		3,917
15 Aver. Water Price	1,267		1,600		1,190		1,371		1,222		1,332

1.3



ΕΦΑΡΜΟΓΗ ΣΤΗ ΔΕΥΑ ΚΟΖΑΝΗΣ

ΤΑ ΔΙΑΓΡΑΜΜΑΤΑ ΤΟΥ ΚΕΝΤΡΙΚΟΥ ΑΡΧΕΙΟΥ «Μ» (για αρχική αύξηση 100% της WP)



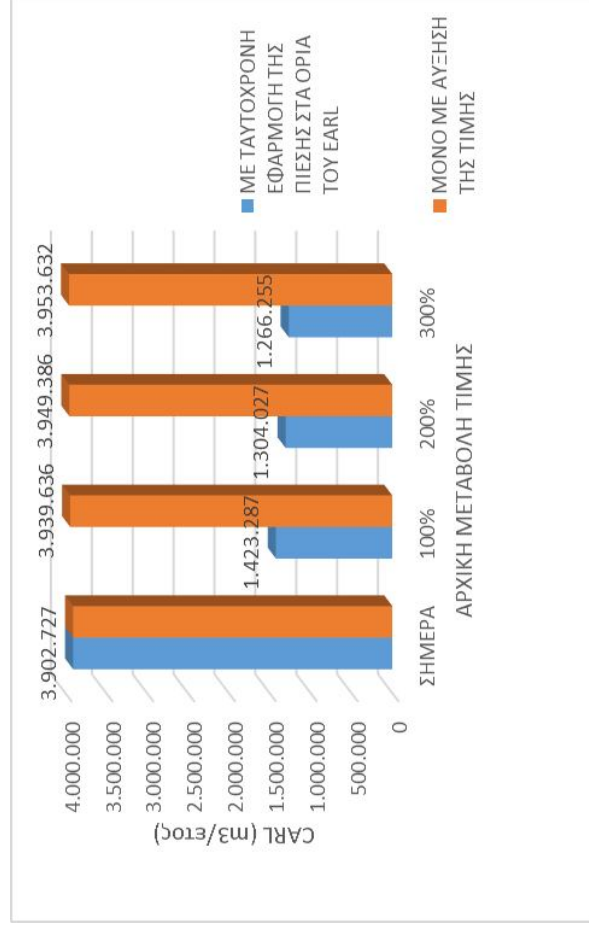
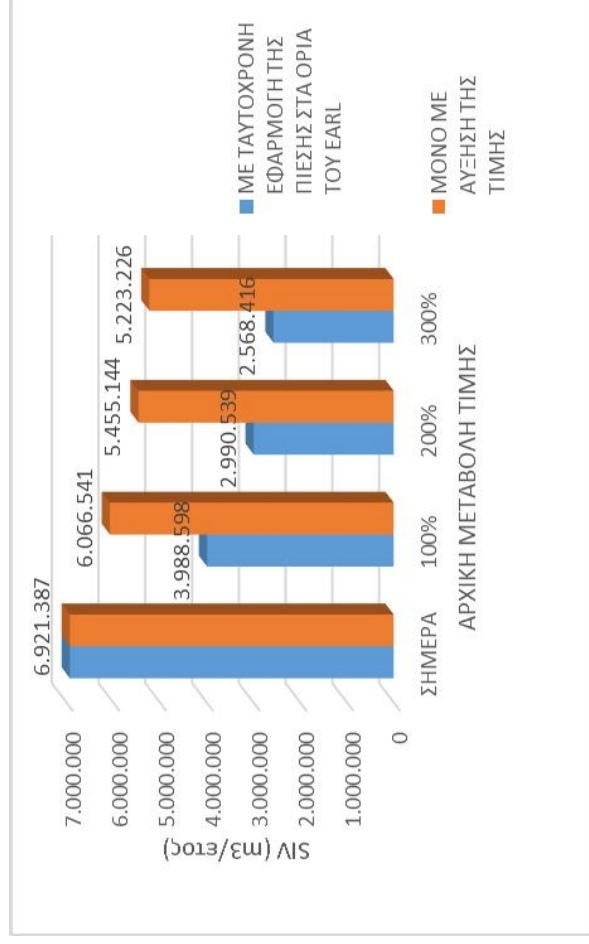
ΟΙ ΤΙΜΕΣ ΤΟΥ ΕΠΙΠΕΔΟΥ ΒΙΩΣΙΜΟΤΗΤΑΣ (για αρχική αύξηση 100% της WPI)

Η διαδικασία αρχίζει με την τεχνητή αύξηση της τιμής του νερού κατά **100%**, η οποία προκαλείται από την αύξηση του κόστους του νερού κατά 41,32% (από 7.835.967€ σε 11.073.750€). Το ότι η αύξηση του κόστους του νερού προκαλεί μεγαλύτερη αύξηση της τιμής του οφείλεται στο ότι δεν τιμολογούνται όλα τα κ.μ. του εισερχόμενου νερού. Η τιμή του νερού που θα εφαρμοστεί θα ανέλθει από **1,267€/μ³** σε **2,534€/μ³** τιμολογούμενου νερού.

Μεγέθη	Αρχική Κατάσταση	Πρώτη Ισορροπία	Επίπεδο βιωσιμότητας	
Πίεση (KPa)	500,8	603,8	533	
SIV (m ³)	6.921.387	6.066.541	3.988.598	Τελική μείωση του όγκου του εισερχόμενου νερού κατά 42,37%
CARL (m ³)	3.002.727	3.939.636	2.423.287	
Κλσπές (m ³)	69.214	97.780	55.534	
Λάθη ανάγνωσης (m ³)	127.774	127.774	104.478	
Υπομέτρηση (m ³)	127.774	127.774	149.218	
Εξουσιοδοτημένη Μη Τιμολογούμενη Κατανάλωση (m ³)	127.774	139.355	142.340	
Τιμολογούμενη Κατανάλωση (m ³)	2.555.472	1.634.222	2.143.432	Τελική μείωση τιμής του νερού που αποδίδει έσοδα κατά 16,12%
NRW (m ³)	4.505.917	4.432.319	1.740.089	
FWC	7.835.967 €	9.400.468 €	5.957.845 €	
FWC (€/m ³ Q _{SIV})	1,13	1,46	2,39	
FWC (€/m ³ Q _{REV})	3,07	6,26	2,78	
Τιμή νερού (€/m ³ Q _{REV})	1,267	1,690	1,247	Τελική μείωση τιμής του νερού κατά 1,58% σε σχέση με την αρχική αύξηση κατά 100%



ΑΠΟΤΕΛΕΣΜΑΤΑ ΑΥΞΗΣΕΩΝ 100%, 200% & 300% ΤΗΣ WP ΜΕ ΚΑΙ ΧΩΡΙΣ ΕΦΑΡΜΟΓΗ ΔΙΑΧΕΙΡΙΣΗΣ ΤΗΣ ΠΙΕΣΗΣ ΣΤΑ ΟΡΙΑ ΤΟΥ EARL

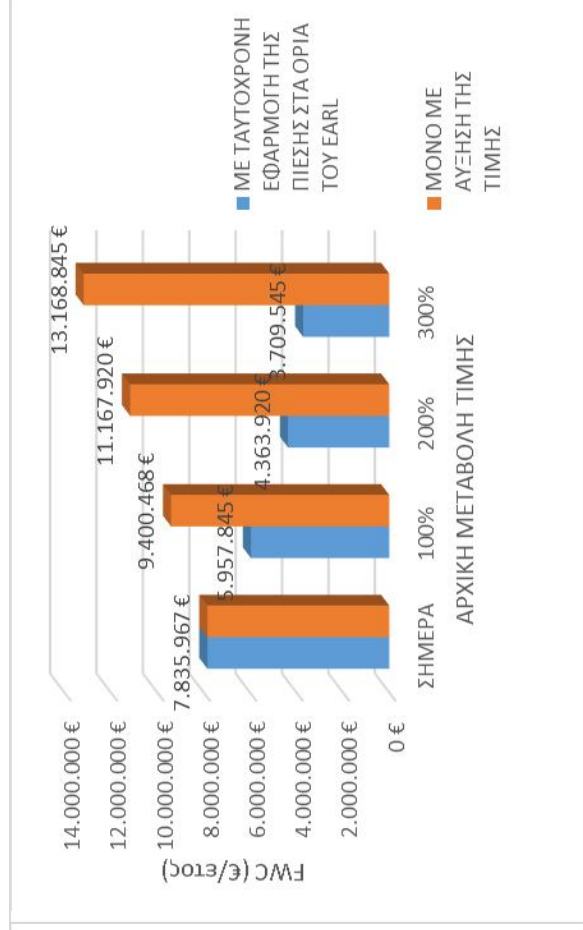
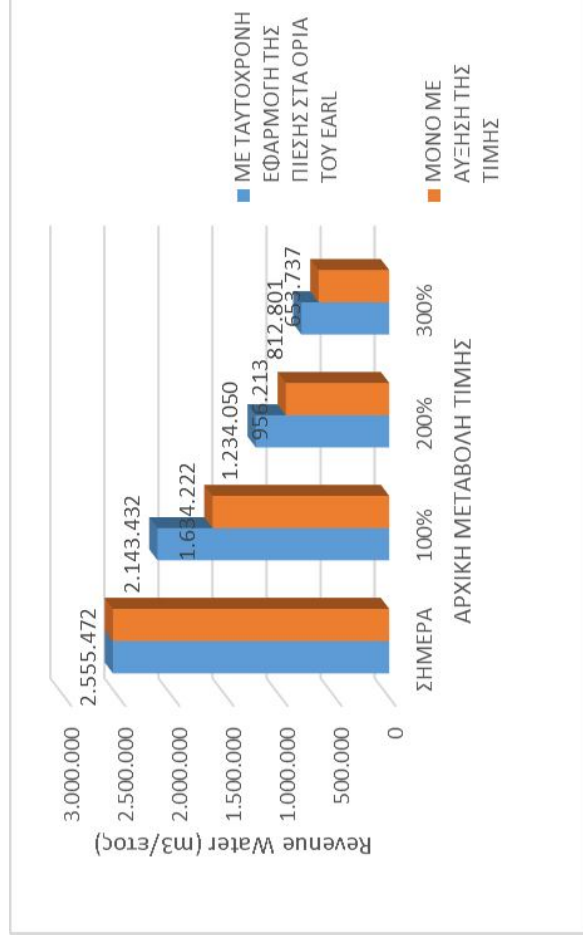


Σενάριο διαχείρισης:	Σενάριο αύξησης τιμής		
	100%	200%	300%
Με ταυτόχρονη εφαρμογή της πίεσης στα όρια του EARL.	57,63%	43,21%	37,11%
Μόνο με αύξηση της τιμής.	87,65%	78,82%	75,47%

Σενάριο διαχείρισης:	Σενάριο αύξησης τιμής		
	100%	200%	300%
Με ταυτόχρονη εφαρμογή της πίεσης στα όρια του EARL.	36,47%	33,41%	32,45%
Μόνο με αύξηση της τιμής.	100,95%	101,20%	101,30%



ΑΠΟΤΕΛΕΣΜΑΤΑ ΑΥΞΗΣΕΩΝ 100%, 200% & 300% ΤΗΣ WP ΜΕ ΚΑΙ ΧΩΡΙΣ ΕΦΑΡΜΟΓΗ ΔΙΑΧΕΙΡΙΣΗΣ ΤΗΣ ΠΙΕΣΗΣ ΣΤΑ ΟΡΙΑ ΤΟΥ EARL

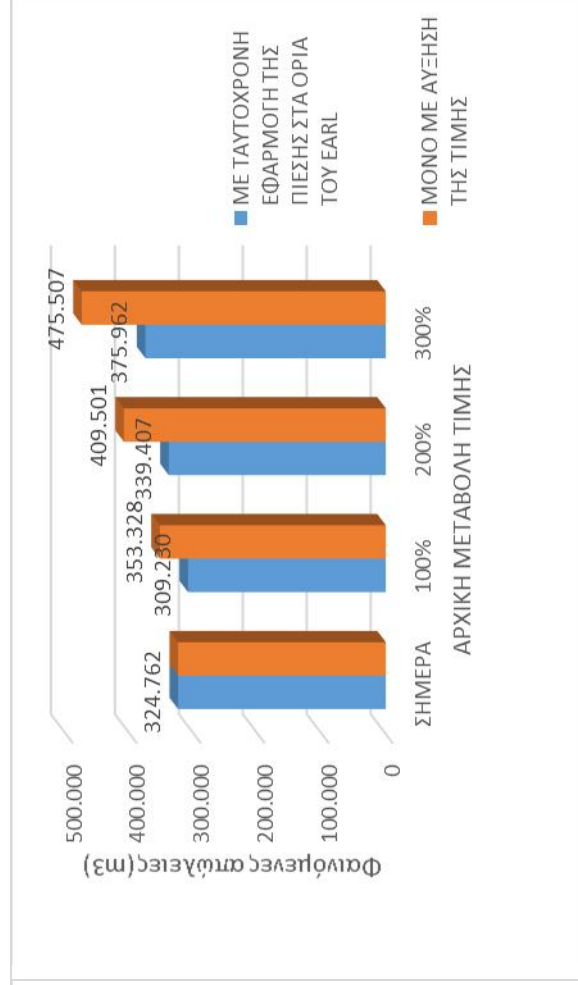
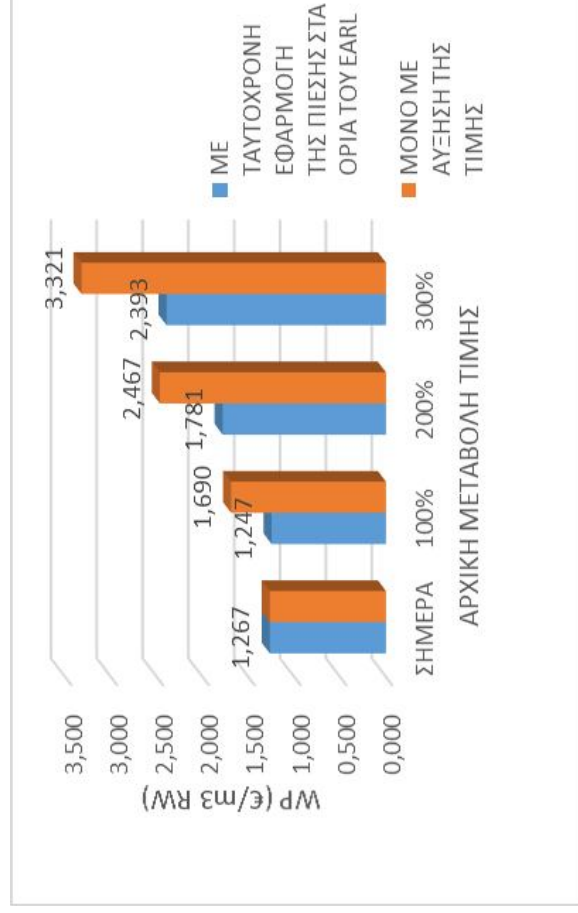


Σενάριο διαχείρισης:	Σενάριο αύξησης τιμής		
	100%	200%	300%
Με ταυτόχρονη εφαρμογή της πίεσης στα όρια του EARL.	83,88%	48,29%	31,81%
Μόνο με αύξηση της τιμής:	63,95%	37,42%	25,58%

Σενάριο διαχείρισης:	Σενάριο αύξησης τιμής		
	100%	200%	300%
Με ταυτόχρονη εφαρμογή της πίεσης στα όρια του EARL.	76,03%	55,69%	47,34%
Μόνο με αύξηση της τιμής:	119,97%	142,52%	168,06%



ΑΠΟΤΕΛΕΣΜΑΤΑ ΑΥΞΗΣΕΩΝ 100%, 200% & 300% ΤΗΣ WP ΜΕ ΚΑΙ ΧΩΡΙΣ ΕΦΑΡΜΟΓΗ ΔΙΑΧΕΙΡΙΣΗΣ ΤΗΣ ΠΙΕΣΗΣ ΣΤΑ ΟΡΙΑ ΤΟΥ EARL

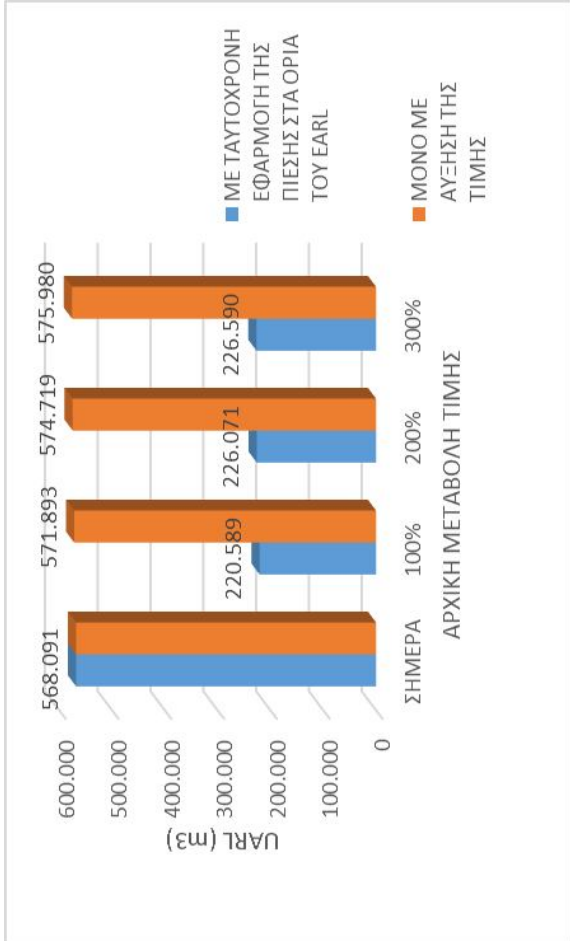
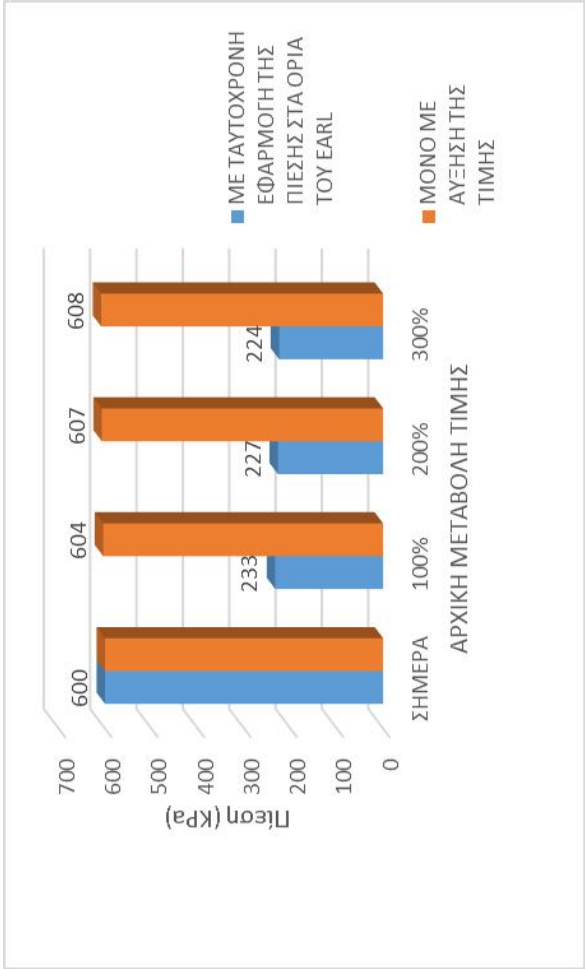


Σενάριο διαχείρισης	Σενάριο αύξησης τιμής		
	100%	200%	300%
Με ταυτόχρονη εφαρμογή της πίεσης στα όρια του EARL.	98,44%	140,55%	188,87%
Μόνο με αύξηση της τιμής.	133,37%	194,68%	262,09%

Σενάριο διαχείρισης	Σενάριο αύξησης τιμής		
	100%	200%	300%
Με ταυτόχρονη εφαρμογή της πίεσης στα όρια του EARL.	95,22%	104,51%	115,77%
Μόνο με αύξηση της τιμής.	108,80%	126,09%	146,42%



ΑΠΟΤΕΛΕΣΜΑΤΑ ΑΥΞΗΣΕΩΝ 100%, 200% & 300% ΤΗΣ WP ΜΕ ΚΑΙ ΧΩΡΙΣ ΕΦΑΡΜΟΓΗ ΔΙΑΧΕΙΡΙΣΗΣ ΤΗΣ ΠΙΕΣΗΣ ΣΤΑ ΟΡΙΑ ΤΟΥ EARL

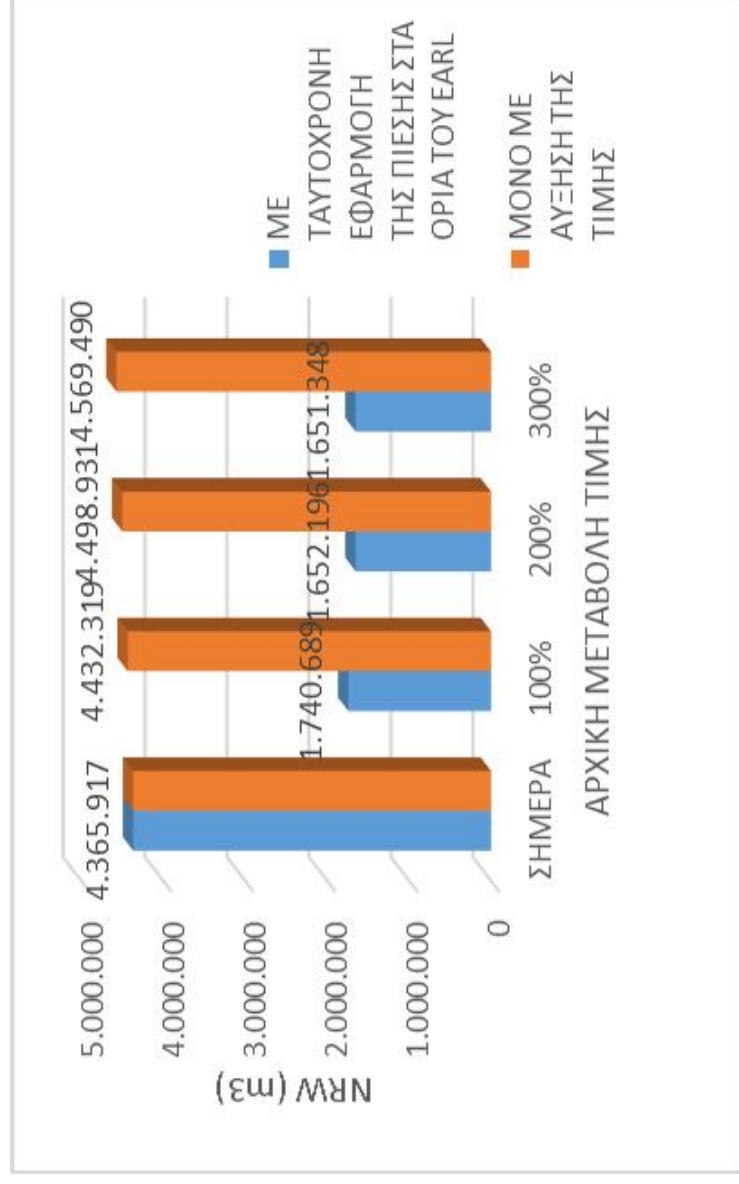


Σενάριο διαχείρισης:	Σενάριο αύξησης τιμής		
	100%	200%	300%
Με ταυτόχρονη εφαρμογή της πίεσης στα όρια του EARL.	38,79%	37,83%	37,40%
Μόνο με αύξηση της τιμής:	100,67%	101,17%	101,39%

Σενάριο διαχείρισης:	Σενάριο αύξησης τιμής		
	100%	200%	300%
Με ταυτόχρονη εφαρμογή της πίεσης στα όρια του EARL.	38,83%	39,79%	39,89%
Μόνο με αύξηση της τιμής:	100,67%	101,17%	101,39%



ΑΠΟΤΕΛΕΣΜΑΤΑ ΑΥΞΗΣΕΩΝ 100%, 200% & 300% ΤΗΣ WP ΜΕ ΚΑΙ ΧΩΡΙΣ ΕΦΑΡΜΟΓΗ ΔΙΑΧΕΙΡΙΣΗΣ ΤΗΣ ΠΙΕΣΗΣ ΣΤΑ ΟΡΙΑ ΤΟΥ EARL



Σενάριο διαχείρισης	Σενάριο αύξησης τιμής		
	100%	200%	300%
Με ταυτόχρονη εφαρμογή της πίεσης στα όρια του EARL.	39,87%	37,84%	37,82%
Μόνο με αύξηση της τιμής.	101,52%	103,05%	104,66%



ΣΥΜΠΕΡΑΣΜΑΤΑ

Η διαχείριση της πίεσης στα επίπεδα του EARL όταν εφαρμόζονται αυξήσεις στο τιμολόγιο νερού δρα ωφέλιμα σε όλες τις συνιστώσες του καταναλισκόμενου νερού, στην πίεση λειτουργίας και στους δείκτες CARL και UARL.

Ο μηχανισμός που αναπτύχθηκε αποτελεί ένα σημαντικό εργαλείο πολιτικής για τις ΔΕΥΑ, αφού:

- «διορθώνει» την επερχόμενη αυξημένη τιμολόγηση του νερού,
- Καλύπτει τις απαιτούμενες οδηγίες της ΟΠΥ 2000/60 για το πλήρες κόστος του νερού
- Υπολογίζει την οικονομικά βέλτιστη μείωση του NRW
- Υπολογίζει τις συντηρητικές (στα επίπεδα βιωσιμότητας) καταναλώσεις όλων των χρηστών του αστικού νερού με οφέλη για όλα τα μέρη του (Σ)



Ευχαριστώ!!

Ομάδα Πανεπιστημίου Θεσσαλίας

Συντονιστής: **Αναπλ. Καθ. Βασίλης Κανακούδης**
Δρ. Σταυρούλα Τσιτσιφλή (Αναπλ.Συντον. Τεχνικού Αντικειμένου)
Αναστασία Παπαδοπούλου (Αναπλ. Συντον.Οικον.Αντικ. & Τεχνική Υποστ.)

Αλεξάνδρα Ρουβά (Τοπικός Συντονιστής)
Ιωάννα Χυτήρη (Βοηθός Τοπικού Συντονιστή)

Αλέξανδρος Πρίγκος (Financial Auditor)
Ιφιγένεια Αργυριάδου (Τεχνική Υποστήριξη)
Ευμορφία Δροσίτη (Τεχνική Υποστήριξη)

Κέρκυρα, 21 Σεπτεμβρίου 2015

Let's grow up together



DRINK ADRIA



The project is co-funded by the European Union,
Instrument for Pre-Accession Assistance

Beneficiaries

Area Council for Eastern Integrated Water Service of Trieste (CATO)	ITALY
VERITAS Joint-Stock Company	ITALY
OPTIMAL TERRITORIAL AREA AUTHORITY N. 3	ITALY
Italian National Council -Water Research Institute	ITALY
Water Utility of Nova Gorica	SLOVENIA
University of Ljubljana	SLOVENIA
Region of Istria	CROATIA
Water utility of Istria	CROATIA
Faculty of Civil Engineering, University of Rijeka	CROATIA
Croatian Geological Survey	CROATIA
Jaroslav Černi Institute for the Development of Water Resources	SERBIA
Water Supply and Sewerage Association of Albania	ALBANIA
Hydro-Engineering Institute of Civil engineering faculty, University of Sarajevo	BOSNIA & HERZEGOVINA
P.C. UTILITY NEUM	BOSNIA & HERZEGOVINA
Public Utility »Vodovod i kanalizacija« Nikšić	MONTENEGRO
Region of Ionian Islands	GREECE
University of Thessaly	GREECE

Associates

FEDERUTILITY	ITALY
CROATIAN WATERS	CROATIA
IWS -Istrian Water Protection System	CROATIA
Primorje-Gorski Kotar county	CROATIA
Ministry of Agriculture, Forestry and Water Management, Water Directorate	SERBIA
Slovenian Environment Agency	SLOVENIA
Adriatic Sea Watershed Agency	BOSNIA & HERZEGOVINA
THE MUNICIPALITY OF NEUM	BOSNIA & HERZEGOVINA
Water Supply and Treatment of Waste Drainage Association of Montenegro	MONTENEGRO
Republic of Slovenia - Ministry of Agriculture and Environment	SLOVENIA
Corfu Municipal Enterprise of Water Supply and Sewage	GREECE

Why DRINKADRIA

Water resource management: climate changes are having - and will have – an increasingly significant impact on the quantity and quality of available water.

DRINKADRIA studies territorial vulnerability and long- and short-term methods to safeguard water resources, focusing on the places where any negative impacts might prove stronger: border areas.

Analysis of cross-border supplies: the project examines the situation of cross-border drinkable water supplies and identifies all the possible actions aimed at optimizing cooperation between operators in neighboring countries, highlighting all the possible developments in the protection of their water resources. The scheme is meant to fill the current lack of studies on the vulnerabilities of the water system and the feasible cross-border solutions.

Pilot projects: DRINKADRIA will carry out nine pilot projects to field-test the benefits of its newly planned solutions in diverse geographical and cultural environments.

Sustainability and capitalization: the projects develops collaboration networks between stakeholders, aimed at incentivizing best practices, acting as a driving force for prospective further sector studies and suggesting guidelines for future policymaking.

www.drinkadria.eu; info@drinkadria.eu



DRINKADRIA

NETWORKING FOR

DRINKING WATER

SUPPLY IN ADRIATIC

REGION

A network of expertise

DRINKADRIA is a project that unites 17 partners from 8 countries in the Adriatic Region, with the aim of creating a network allowing these operators to share competences, expertise and operational practices in the field of sustainable water resources management. Consolidating a joint know-how and sharing strategies and protocols are the basis of correct resources management at all levels (local, regional and cross-border).

Borders as an opportunity

The political events in the Balkan area from the end of WWII to the present day brought to a rearrangement of borders without any subsequent regulation of the management of shared water supplies.

DRINKADRIA aims at creating protocols on how to develop interconnections between the water supplies of the countries of the Adriatic region. It focuses on meeting diverse needs and guaranteeing a sustainable use of water resources.

“water must become an increasingly shared asset, optimally managed and safeguarded on both sides of any border”

The geographic and cultural context

DRINKADRIA project is part of the IPA Adriatic Cross-border Cooperation Programme between Italy, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Albania, Greece and Serbia. Its character is therefore strongly oriented towards cross-border action.



Region of Ionian Islands

<http://bin.gov.gr>

Associate Organization

Municipal Water Supply and
Sewerage Company of Corfu
<http://www.deya-ker.gr>



DRINKADRIA

NETWORKING FOR DRINKING WATER SUPPLY IN ADRIATIC REGION



The project is co-funded by the
European Union, Instrument for
Pre-Accession Assistance



University of Thessaly
Civil Engineering Dept.
<http://www.civ.uth.gr>

Scientific Coordinator & Project Manager
Assoc. Prof. Vasilis Kanakoudis

bkarakoud@civ.uth.gr



UNIVERSITY OF THESSALY

Ολοκληρωμένη μεθοδολογία διαχείρισης δικτύων ύδρευσης & μείωσης του μη ανταποδοτικού νερού – Αναλύοντας το υδατικό ισοζύγιο ενός δικτύου ύδρευσης

Πανεπιστήμιο Θεσσαλίας, Ελλάδα
Συντονιστής: Αναπλ. Καθηγ. Βασίλης Κανακούδης

Κέρκυρα, 22 Σεπτεμβρίου 2015



The project is co-funded by the European Union,
Instrument for Pre-Accession Assistance

Let's grow up together

Τελικός Στόχος

Τελική πρόκληση στη Διαχείριση της Παροχής Νερού
ύδρευσης είναι:

- ✓ Αναγνώριση της Πραγματικής Αξίας του

Αξία του νερού:

τι πραγματικά σημαίνει το νερό (υδάτινος πόρος) για μας και τους άλλους χρήστες του

- ✓ Ορισμός του πλήρους κόστους του

Κόστος του νερού:

πόσο το νερό (υδάτινος πόρος) πραγματικά κοστίζει σε μας και τους άλλους χρήστες του

- ✓ Καθορισμός κοινωνικά δίκαιης τιμής

Τιμή του νερού:

πόσο πραγματικά πληρώνουμε για το νερό που

χρησιμοποιούμε



Τιμολόγηση νερού ύδρευσης

- ✓ Τιμή του νερού: πόσο πληρώνουμε για το νερό που χρησιμοποιούμε; πόσο πρέπει να πληρώσουμε για αυτό;
- ✓ Δύο είδη «κόστους»
 - ✓ Το κόστος του νερού που παρέχεται από τον υδατικό πόρο (Πλήρες κόστος νερού)
 - ✓ Το κόστος των μέτρων / δράσεων για την μείωση των όγκων νερού που χάνονται (Μη Ανταποδοτικό Νερό)
- Αύριο: ο καθένας πρέπει να πληρώσει το δίκαιο μερίδιό του

Καθορισμός Κοινωνικά Δίκαιης Τιμής Νερού

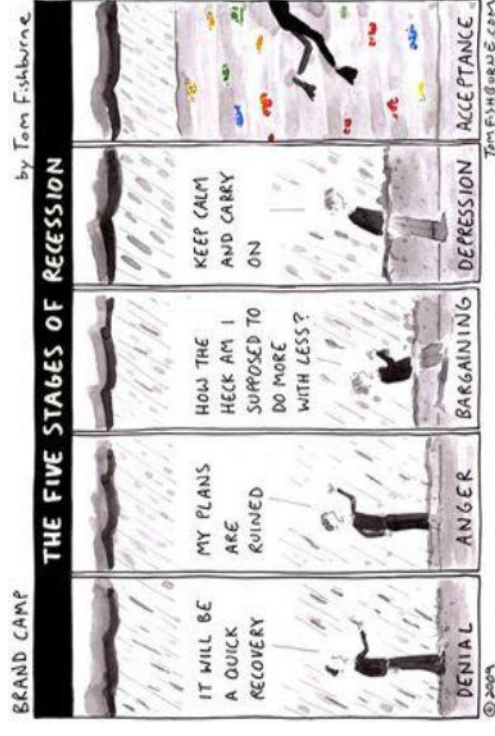
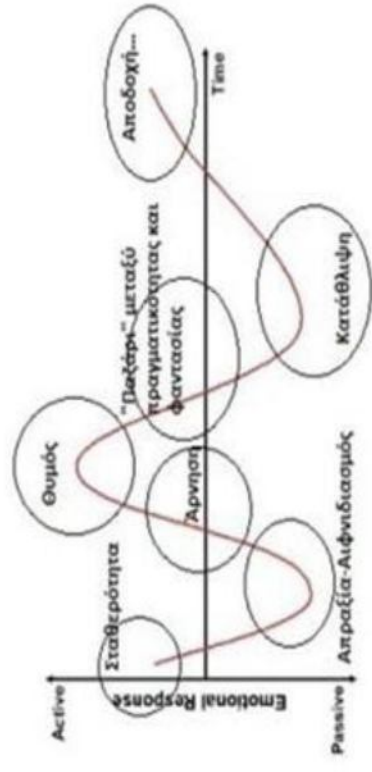
- ✓ **ΌΜΩΣ ΠΡΩΤΑ ΠΡΕΠΕΙ ΝΑ ΥΠΟΛΟΓΙΣΟΥΜΕ ΤΙΣ ΑΠΩΛΕΙΕΣ ΝΕΡΟΥ**



Διαχείριση Δικτύων Ύδρευσης

- Διαρροές ...υπάρχουν?
- Αν ναι...πόσες είναι...ξέρουμε....? Και πόσο μας κοστίζουν επίσης...ξέρουμε?
- Είμαστε σίγουροι ή απλά βασιζόμαστε σε εκτιμήσεις και την υπερ-πολύτιμη εμπειρία μας? Και αν ισχύει το δεύτερο...πως επαληθεύουμε το «μοντέλο»?
- Για να είμαστε σίγουροι...μήπως να τις μετρήσουμε? Ή έστω να τις εκτιμήσουμε αξιόπιστα?
- Με τις απώλειες λόγω θραύσεων τι γίνεται? Με την κλοπή? Με την υπομέτρηση?
- Πρέπει να ξανα-ανακαλύψουμε τον τροχό για αυτό ή μήπως μπορούμε να πάμε στην πόλη...αλλά...ρωτώντας? (benchmarking)

The Kübler-Ross grief cycle



Γιατί να ασχοληθεί κανείς; NRW (Μη Ανταποδοτικό Νερό) = χαμένο νερό & χρήμα & ενέργεια

- ✓ Υπάρχει ένας υδατικός πόρος προς αξιοποίηση που ανέρχεται στο 25,6% του SIV
- ✓ 90 εκ. άνθρωποι θα αποκτούσαν πρόσβαση χωρίς αύξηση ζήτησης ή εκμετάλλευση νέων υδατικών πόρων
- ✓ Αν μειωθεί το NRW στις παγκοσμίως αποδεκτές τιμές (5-10%), τότε με την ποσότητα νερού που λαμβάνουμε σήμερα θα μπορεί να υδροδοτηθεί επιπλέον 21-27,7% πληθυσμού!
- ✓ Η απώλεια εσόδων είναι ίση με το 25% των επενδύσεων σε υδραυλικά έργα
- ✓ Water Footprint (Υδατικό Αποτύπωμα)
- ✓ Ενέργεια – Carbon Footprint (Ανθρακικό Αποτύπωμα):
 - ✓ Μείωση των απωλειών νερού κατά 30% θα έχει ως αποτέλεσμα μείωση της καταναλισκόμενης ενέργειας κατά 20-30%



Σημείο κλειδί

- Το νερό αποτελεί αγαθό σε ανεπάρκεια (χωρική-χρονική ανισοκατανομή προσφοράς-ζήτησης + Κλιματική Μεταβλητότητα).
- Αυξανόμενη ζήτηση + ελαττωμένοι πόροι => μεγάλη πίεση στους υδατικούς πόρους
- Από δημόσιο αγαθό έγινε κοινόκτητος πόρος (χαρακτηρίζεται από ανταγωνιστικότητα στη χρήση)
- Διαχείριση της ζήτησης: όχι το παραδοσιακό μοντέλο αύξησης της παροχής μέσω της ανάπτυξης νέων πόρων και σχεδίων μεταφοράς, αλλά **πιο αποδοτική χρήση του νερού**, περιορισμός απωλειών, λιγότερη σπατάλη του νερού, πιο αποδοτικές συσκευές και ανακύκλωση νερού



Αποδοτικότητα Χρήσης Νερού

Τι είναι «Αποδοτικότητα Χρήσης Νερού» και πως μετρείται;

- Σε ΌΓΚΟ: Αύξηση μοναδιαίας απόδοσης χρήσης νερού => Αύξηση του λόγου Χρησιμοποιούμενο Νερό / Νερό Εισερχόμενο στο Σύστημα (SIV-System Input Volume) => Μείωση Απωλειών Νερού (όγκος) (π.χ. η **κλοπή ΔΕΝ ΕΙΝΑΙ απώλεια**)

- Σε ΧΡΗΜΑ/ΕΣΟΔΑ: Αύξηση μοναδιαίας απόδοσης χρήσης νερού => Αύξηση μοναδιαίων εσόδων (€) / Νερό Εισερχόμενο στο Σύστημα (SIV-System Input Volume) => Μείωση του μη-ανταποδοτικού νερού (π.χ. η **κλοπή ΕΙΝΑΙ απώλεια**)



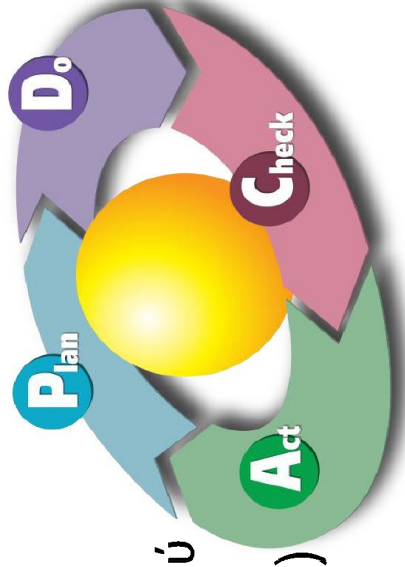
Αποδέκτες του μηνύματος

- ✓ Σε κάθε αστικό δίκτυο ύδρευσης υπάρχουν δύο κύριοι χρήστες: α) οι διαφόρων τύπων καταναλωτές και β) το ίδιο το δίκτυο (απώλειες νερού)
- ✓ Κοινός Σκοπός: **Επίτευξη Συντηρητικής Ζήτησης**
 - Στόχοι:
 - Η μείωση του μη-ανταποδοτικού νερού (Non-Revenue Water: NRW)
 - Μείωση των Πραγματικών Απωλειών (RL)
 - Μείωση των Εμπορικών Απωλειών (AL)
 - Η μείωση της σπατάλης από τον καταναλωτή
- ✓ Τρόποι:
 - ✓ Καταναλωτές \leq μείωση AL, κατάλληλη τιμολογιακή πολιτική
 - ✓ Δίκτυο \leq μείωση RL, μείωση εξουσιοδοτημένης μη-τιμολογούμενης χρήσης ή κατάλληλη έμμεση χρέωσή της (Πάγιο)



Εργαλεία

- ✓ Προσδιορισμός του Υδατικού Ισοζυγίου & του Επιπέδου Λειτουργίας του Δικτύου (Water Audit+Προσομοίωση)
- ✓ Αξιολόγηση του Επιπέδου Λειτουργίας του Δικτύου με κατάλληλους Δείκτες Αξιολόγησης (ex-ante evaluation)
- ✓ Προσδιορισμός Μέτρων μείωσης μη-ανταποδοτικού νερού
- ✓ Αξιολόγηση των Μέτρων / Ιεράρχηση (on-going evaluation)
- ✓ Εφαρμογή
- ✓ Αξιολόγηση αποτελεσμάτων (ex-post evaluation)



Κρίσιμο 1^ο βήμα: Αξιολόγηση Επιπέδου Λειτουργίας & Βέλτιστης Λύσης Επέμβασης

Στόχοι:

- Προσδιορισμός Υδατικού Ισοζυγίου του δικτύου
- Αξιολόγηση λειτουργίας
- Επιλογή βέλτιστων λύσεων επέμβασης

Τρόποι:

- Χρήση αναγνωρισμένων μεθοδολογιών υπολογισμού του Υδατικού Ισοζυγίου του δικτύου (IWA και εξελίξεις)
- Χρήση αναγνωρισμένων Δεικτών Αξιολόγησης του επιπέδου λειτουργίας όλου του συστήματος
- Γνώση των πλέον εξελιγμένων τεχνικών/τεχνολογιών

Εργαλεία:

- Water Balance Assessment Tools
- Water Audit Tools
- Decision Support Systems



Αξιολόγηση του επιπέδου λειτουργίας του δικτύου ύδρευσης – IWA Water Balance (Lambert et al., 1999)

Ετήσιο Εισερχόμενο Νερό στο Δίκτυο (Annual System Input Volume or Water Supplied if no export takes place)	Εξουσιοδοτημένη Κατανάλωση (Authorized Consumption)	Τιμολογούμενη Εξουσιοδοτημένη Κατανάλωση (Billed Authorized Consumption)	Τιμολογούμενη Μετρούμενη Κατανάλωση (Billed Metered Consumption) Τιμολογούμενη μη-Μετρούμενη Κατανάλωση (Billed Unmetered Consumption)	Νερό που αποδίδει έσοδα (Revenue Water)
	Μη-Τιμολογούμενη Εξουσιοδοτημένη Κατανάλωση (Unbilled Authorized Consumption)	Μη-Τιμολογούμενη Μετρούμενη Κατανάλωση (Unbilled Metered Consumption)	μη-Τιμολογούμενη μη-Μετρούμενη Κατανάλωση (Unbilled Unmetered Consumption)	Νερό που ΔΕΝ αποδίδει έσοδα μη ανταποδοτικό νερό (Non - Revenue Water) διαφορά εισερχόμενου νερού και τιμολογούμενης εξουσιοδοτημένης κατανάλωσης
	Απώλειες Νερού (Water Losses) διαφορά μεταξύ εισερχόμενου νερού και εξουσιοδοτημένης κατανάλωσης	Φαινόμενες ή Εμπορικές Απώλειες (Apparent Losses) μη-εξουσιοδοτημένη κατανάλωση και όλοι οι τύποι ανακριβειών μετρήσεων- μετρητών		
		Πραγματικές Απώλειες (Real Losses) Διαρροές, Θραύσεις, Υπερχειλίσειες αγωγών, δεξαμενών & συνδέσεων καταναλωτών μέχρι τους μετρητές		



Οι 2 τροποποιήσεις του

Διεθνές Πρότυπο Υδατικό Ισοζύγιο της IWA				Τροποποίηση McKenzie et al		Τροποποίηση Kanakoudis & Tsitsifli	
Εισερχόμενο Νερό στο Δίκτυο (A3)	Εξουσιοδοτημένη Κατανάλωση (A14=A10+A13)	Τιμολογούμενη Εξουσιοδοτημένη Κατανάλωση (A10=A8+A9)	Τιμολογούμενη Κατανάλωση (A8)	Ανταποδοτικό Νερό (A20=A8+A9)	Νερό που πωλείται και αποδίδει έσοδα (εισπράττεται) (A24=A8+A9-A23)	Νερό που πωλείται και αποδίδει έσοδα (εισπράττεται) (A24=A20-A23)	
			Τιμολογούμενη μη-Μετρούμενη Κατανάλωση (A9)		Νερό που πωλείται και ΔΕΝ αποδίδει έσοδα (δεν εισπράττεται/ apparent NRW)	Νερό που πωλείται και ΔΕΝ αποδίδει έσοδα (δεν εισπράττεται/ apparent NRW)	
	Μη-Τιμολογούμενη Εξουσιοδοτημένη (A13=A11+A12)	Μη-Τιμολογούμενη Κατανάλωση (A11)	Μη-Τιμολογούμενη Μετρούμενη Κατανάλωση (A12)	Μη Ανταποδοτικό Νερό/ NRW (A21=A3-A24-A23)	Νερό που δεν πωλείται και δεν αποδίδει έσοδα (μη Ανταποδοτικό Νερό/ real NRW)	Λογιστικό μη ανταποδοτικό νερό (Accounted Non Revenue Water) (A26=A21-A25)	Απώλειες Νερού που αποδίδουν έσοδα (Διαφορά Παγίου) A25
			Μη-Εξουσιοδοτημένη Κατανάλωση (A16)				
		Φαινόμενες Απώλειες Νερού (A18=A16+A17)	Λάθη Μετρήτων / Μετρήσεων (A17)				
	Απώλειες Νερού (A15=A3-A14)	Πραγματικές Απώλειες Νερού (A19=A15-A18)					

Kanakoudis, V. and Tsitsifli, S., (2010), "Water volume vs. revenues oriented water balance calculation for urban water networks: the "Minimum Charge Difference" component makes a difference!", *Int. Conf. "Water Loss"*, IWA, Sao Paulo, Brazil, 6-9 June



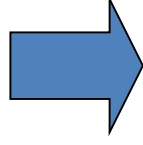
Προβλήματα εφαρμογής του Διεθνούς Πρότυπου Υδατικού Ισοζυγίου της IWA

- Πρακτικά προβλήματα εμφανίζονται κατά την εφαρμογή της μεθοδολογίας:
 - Διαθεσιμότητα και αξιοπιστία δεδομένων για τον υπολογισμό του υδατικού ισοζυγίου
 - Εφαρμογές στην Μεσόγειο κατέδειξαν την έλλειψη δεδομένων που αφορούν: στη μη τιμολογούμενη μετρούμενη και μη κατανάλωση, στη μη εξουσιοδοτημένη κατανάλωση (κλοπή, παράνομες συνδέσεις), στις απώλειες εξαιτίας σφαλμάτων στα υδρόμετρα (υπομέτρηση) και στις μετρήσεις (λάθος καταγραφές), στον αριθμό των συνδέσεων των καταναλωτών κ.α.
 - Τοπικές συνθήκες και πρακτικές
 - Επιλογή των δεικτών απόδοσης



Τοπικά Χαρακτηριστικά

- Κοινό θέμα είναι η πολιτική τιμολόγησης
- Τιμολόγια αυξανόμενης χρέωσης μονάδας κατανάλωσης: ελάχιστη κατανάλωση (πάγιο) και η επιπλέον κατανάλωση σε βαθμίδες όπου η μοναδιαία χρέωση αυξάνει
- Το πάγιο εκφράζεται είτε ως ελάχιστη κατανάλωση είτε σε χρηματικές μονάδες
- Η ελάχιστη κατανάλωση χρεώνεται στους πελάτες όταν η πραγματική κατανάλωση είναι κάτω από αυτό το όριο
- Επομένως υπάρχει μία ποσότητα νερού που δεν καταναλώνεται, αλλά χρεώνεται στους καταναλωτές



Διαφορά Παγίου

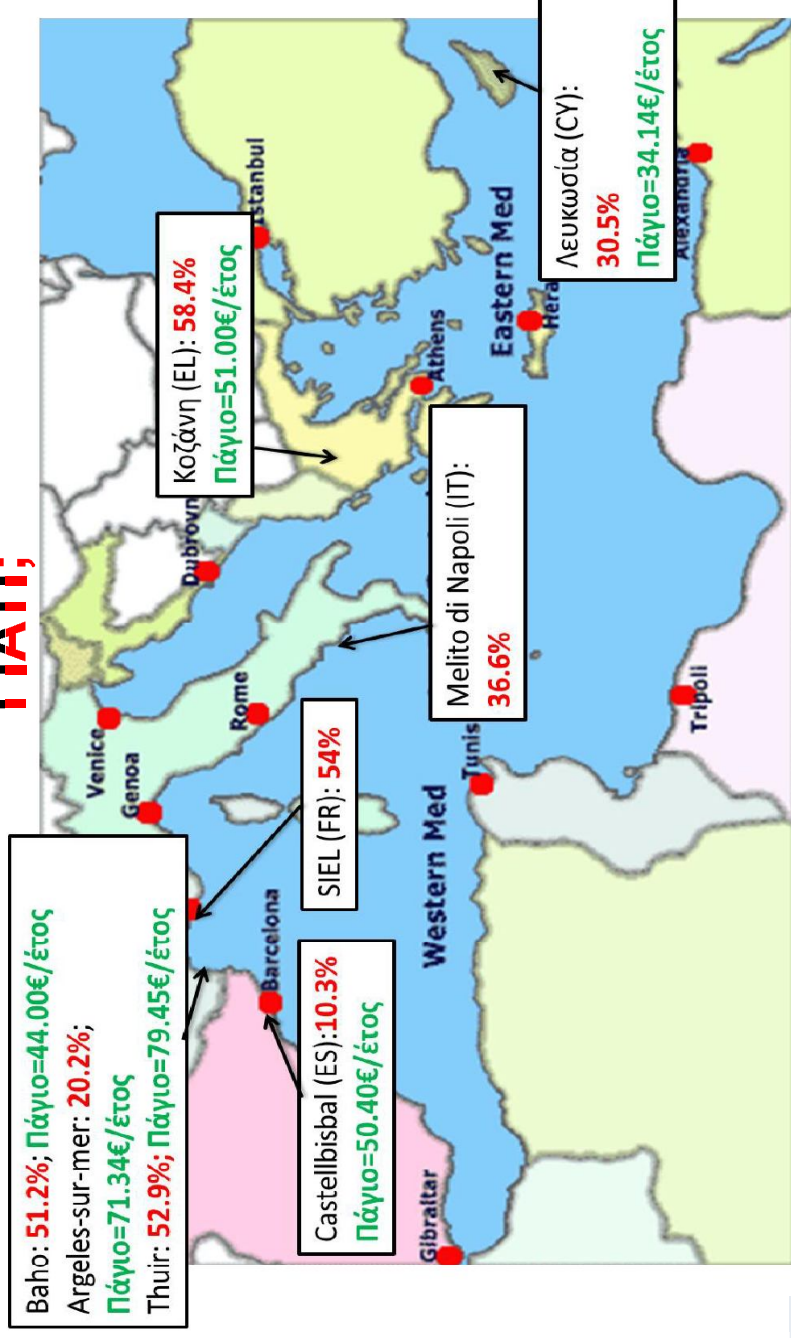


Το παράδοξο και ο ρόλος του Παγίου

- Κοινά προβλήματα:
 - Υψηλά επίπεδα NRW (10-60% ΕΙΣΕΡΧΟΜΕΝΟΥ ΝΕΡΟΥ)
 - Υψηλά επίπεδα πραγματικών απωλειών (80-95% NRW)
- Η τακτική δεν είναι προς την μείωση του NRW

ΑΛΛΑ

ΓΙΑΤΙ;



Ορθολογιστική θεώρηση της χρέωσης παγίου: μελέτη προσδιορισμού / αιτιολόγησης του μεγέθους του

- Το πάγιο κόστος αποτελείται από 2 είδη δαπανών:

- **Δαπάνες μη σχετιζόμενες με την ποσότητα του νερού που χρησιμοποιεί ο καταναλωτής**, π.χ. συντήρηση μετρητών, τέλος σύνδεσης καταναλωτή, δαπάνες για πυρόσβεση & δημόσια χρήση (χωρίς χρέωση). Αυτό το κόστος είναι το λεγόμενο «κόστος ευκαιρίας/opportunity cost» ή «κόστος πρόσβασης/access cost» που ο καταναλωτής πρέπει να πληρώσει
- **Δαπάνες που σχετίζονται (αναλογικά) με την ποσότητα του νερού που χρησιμοποιεί ο καταναλωτής**, π.χ. κόστη σχετικά με την επιδιόρθωση των αγωγών του δικτύου, ξέπλυμα αγωγών / δεξαμενών κλπ. Αυτά τα κόστη πρέπει να ενσωματωθούν στην τιμή πώλησης του νερού (σχετίζονται με το δείκτη «ποσοστό χρήσης του δικτύου»)



Υπολογισμός της Διαφοράς Παγίου

- Όταν το πάγιο εκφράζεται σε €:
- Η Διαφορά Παγίου (MCD) εκφράζει τον ισοδύναμο όγκο νερού (σε m³), που αν πουλιόταν (σε καθαρή τιμή νερού χωρίς το πάγιο κόστος) θα είχε σαν αποτέλεσμα τα ίδια έσοδα (σε €), εξαιρούμενου του κόστους ευκαιρίας (R_{ndc}).

$$MCD = \frac{R_{fc} - R_{ndc}}{\frac{R_{wuc}}{Q_{wsp}}}$$

- **Υπολογισμός:**

- Τα συνολικά έσοδα R (σε €) που σχετίζονται με το νερό που πουλήθηκε (και τις σχετικές υπηρεσίες νερού) είναι:

$$R = R_{fc} + R_{wuc}$$

όπου:

- R_{fc} είναι τα έσοδα (σε €) που σχετίζονται με το πάγιο κόστος, και
- R_{wuc} είναι τα έσοδα (σε €) που σχετίζονται με το νερό που πωλείται
- Ο συνολικός όγκος νερού (σε m³) που εισέρχεται στο σύστημα είναι:
$$Q_{wst} = Q_{ws} + Q_{wns} \Rightarrow Q_{ws} = Q_{wst} - Q_{wns}$$



Υπολογισμός της Διαφοράς Παγίου (συν.)

- όπου: Q_{wst} είναι ο όγκος του Εισερχόμενου Νερού στο σύστημα (System Input Volume σε m^3),
 Q_{ws} είναι ο όγκος νερού που πωλείται (σε m^3),
 Q_{wns} είναι ο όγκος νερού (σε m^3) που δεν χρεώνεται – πωλείται για διάφορους λόγους, π.χ. διαρροές, θραύσεις, κλοπή νερού, μηδενική χρέωση, κλπ.

Q_{ws} είναι ο όγκος νερού που αποφέρει έσοδα στην εταιρεία ύδρευσης, ενώ τα υπόλοιπα δεν αποφέρουν έσοδα:

$$Q_{ws} = Q_{wsp} + Q_{wsnp}$$

όπου: Q_{wsp} είναι ο όγκος νερού (σε m^3) που αποφέρει έσοδα,
 Q_{wsnp} είναι ο όγκος νερού που πωλείται (σε m^3) αλλά δεν αποφέρει έσοδα στην εταιρεία ύδρευσης

- Η μέση χρέωση χρήσης του νερού A_{wuc} σε (€/m³) είναι:
$$A_{wuc} = R_{wuc} / Q_{wsp}$$
- Τα μέσα έσοδα νερού (€/m³) > μέση χρέωση χρήσης (€/m³):
$$A = R / Q_{wsp}$$
- Είναι προφανές ότι τα μέσα έσοδα του νερού > από τη μέση χρέωση χρήσης.



Υπολογισμός της Διαφοράς Παγίου (συν.)

- Όταν το πάγιο εκφράζεται σε m³:
- Η Διαφορά Παγίου (MCD) εκφράζει τον όγκο νερού που έχει πουληθεί αλλά δεν έχει καταναλωθεί από τους καταναλωτές.

$$MCD = Q_{tot}^{billed} - Q_{tot}^{used} - Q_{opportunity\ cost}$$

- Υπολογισμός:
- Q_{tot}^{billed} : είναι η συνολική πραγματική κατανάλωση νερού
- Q_{tot}^{used} : είναι η συνολική κατανάλωση που έχει τιμολογηθεί (χρεωθεί) στους καταναλωτές
- $Q_{opportunity\ cost}$: είναι η ποσότητα του νερού που χρησιμοποιείται και αντιστοιχεί στο «κόστος ευκαιρίας»

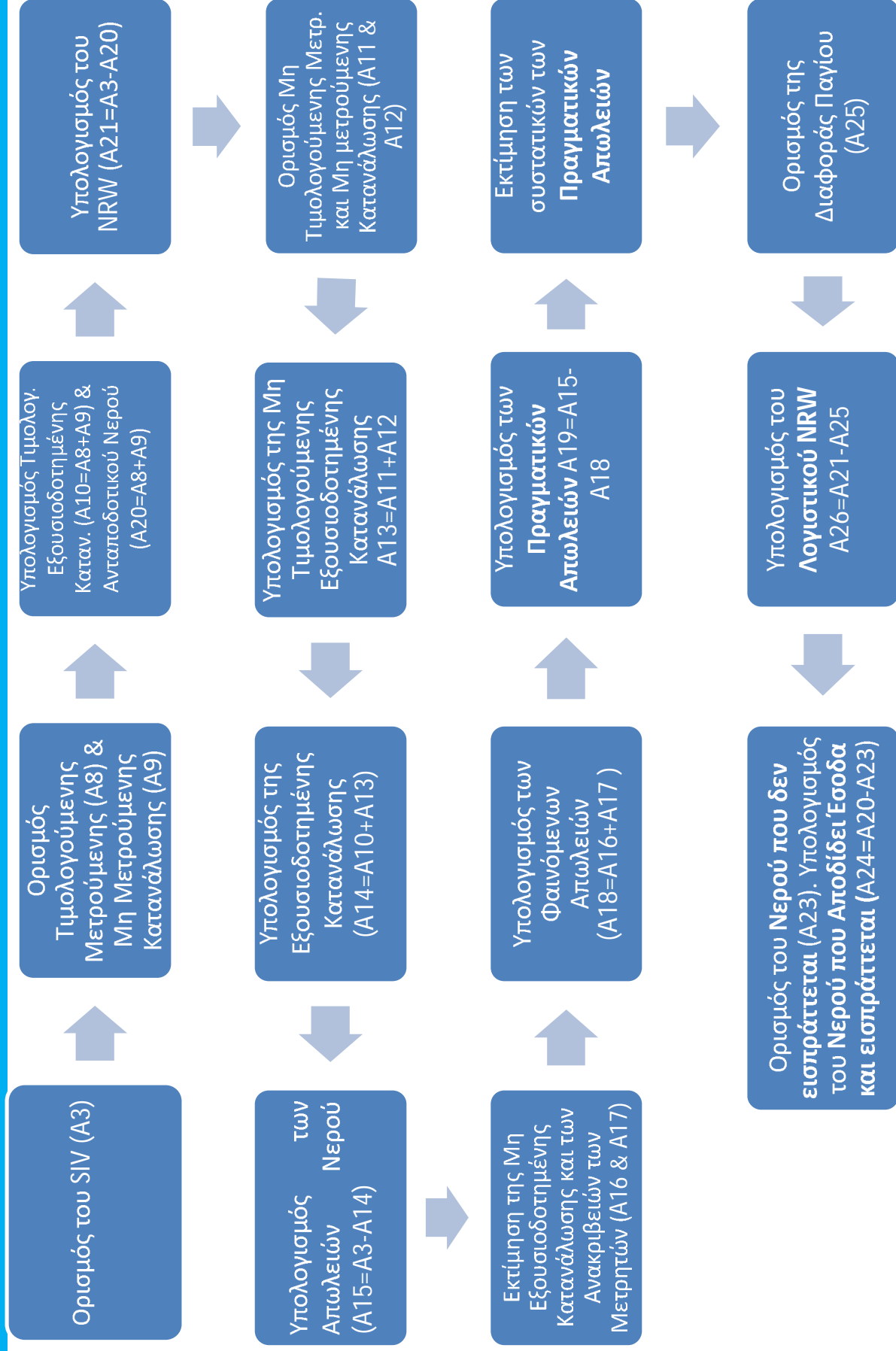


Υπολογισμός Υδατικού Ισοζυγίου

Εισερχόμενο Νερό Στο Δίκτυο (A3)	Εξουσιοδοτημένη Κατανάλωση (A14=A10+A13)	Τιμολογούμενη Εξουσιοδοτημένη Κατανάλωση (A10=A8+A9)	Τιμολογούμενη Μετρούμενη Κατανάλωση (A8)	Νερό που αποδίδει έσοδα (A20=A8+A9)	Νερό που αποδίδει έσοδα και εισπράττεται (A24=A20-A23)
	Απώλειες Νερού (A15=A3-A14)	Μη-Τιμολογούμενη Εξουσιοδοτημένη Κατανάλωση (A13=A11+A12)	Μη-Τιμολογούμενη Μετρούμενη Κατανάλωση (A11)	Μη Ανταποδοτικό Νερό (NRW) (A21=A3-A20)	Νερό που δεν εισπράττεται A23
		Φαινόμενες Απώλειες (A18=A16+A17)	Μη-Τιμολογούμενη μη-Μετρούμενη Κατανάλωση (A12)		Λογιστικό Μη Ανταποδοτικό Νερό (A26=A21-A25)
			Μη-Εξουσιοδοτημένη Κατανάλωση (A16)		
			Λάθη Μετρητών / Μετρήσεων (A17)		
Πραγματικές Απώλειες (A19=A15-A18)			Πραγματικές Απώλειες που αποδίδουν έσοδα (Διαφορά Παγίου) A25		



Βήματα υπολογισμού του Υδατικού Ισοζυγίου

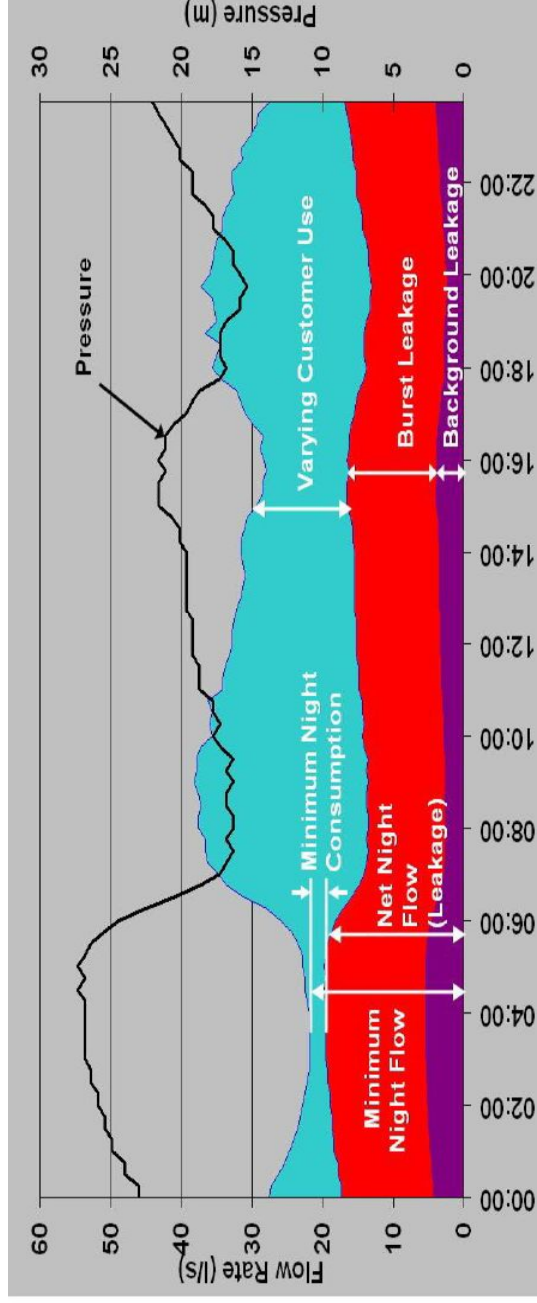



Υπολογισμός του Υδατικού Ισοζυγίου

- Μεθοδολογία υπολογισμού από πάνω προς τα κάτω (**top-down approach**)
 - Οι πραγματικές απώλειες προκύπτουν από τα συστατικά του ισοζυγίου
 - Δεν προκύπτουν οι αιτίες των πραγματικών απωλειών
- Μεθοδολογία υπολογισμού από κάτω προς τα πάνω (**bottom-up approach**)
 - Ανάλυση νυχτερινών παροχών
 - Πλεονέκτημα: προτεραιότητα στις αιτίες των μεγαλύτερων διαρροών
- Μεθοδολογία Ανάλυσης Συστατικών των Πραγματικών Απωλειών
 - Διαρροές στους κύριους αγωγούς και τους αγωγούς διανομής
 - Διαρροές και υπερχειλίσσεις δεξαμενών
 - Διαρροές στις συνδέσεις των καταναλωτών μέχρι το υδρόμετρο



Ανάλυση Νυχτερινών Παροχών



Ελάχιστη Νυχτερινή Παροχή (MNF)	Νυχτερινή Κατανάλωση	Νυχτερινή Χρήση	Εξαιρετική Νυχτερινή Χρήση
			Εκτιμώμενη Οικιακή Νυχτερινή Χρήση
			Εκτιμώμενη Νυχτερινή Μη Οικιακή Χρήση
	Νυχτερινές Διαρροές της Εταιρείας	Νυχτερινές Διαρροές Καταναλωτή	Εντός κτιρίων
			Εκτός κτιρίων
		Θραύσεις	Μη Αναφερθείσες Θραύσεις
			Αναφερθείσες Θραύσεις
			Διαρροές Βάσης (Background leakage)
			Στους αγωγούς
			



DRINKADRIA

DRINKADRIA – FB15 & FB16 1^η Τεχνική Συνάντηση– Κέρκυρα 22.09.2015



UNIVERSITY OF THESSALY

Κατανομή Ευθύνης Πληρωμής του Κόστους του NRW

Η ποσότητα του εισερχόμενου νερού στο δίκτυο (SIV) χωρίζεται σε δύο καταναλώσεις: (α) στην ποσότητα που καταναλώνουν οι καταναλωτές (Q_{CUST}) και (β) στην ποσότητα που «καταναλώνει» το δίκτυο (Q_{DN}):

$$Q_{CUST} = a * Q_{SIV}, \quad Q_{DN} = (1-a) * Q_{SIV}$$

- Ο καταναλωτής πρέπει να πληρώσει:
 - την κατανάλωση την οποία έχει πραγματοποιήσει
 - την μη μετρούμενη κατανάλωση (πλύσιμο αγωγών & δεξαμενών, το νερό για πυρόσβεση, πότισμα πάρκων, συντριβάνια κλπ.
 - το νερό που δεν καταγράφεται από τα σφάλματα των μετρητών
 - το βέλτιστο επίπεδο των ελάχιστων πραγματικών απωλειών ως κόστος ευκαιρίας
 - ένα μέρος της ποσότητας $Q_{EARL-UARL}$
- Η εταιρεία ύδρευσης πρέπει να πληρώσει:
 - την ποσότητα των σφαλμάτων των καταγραφών (ευθύνη της εταιρείας)
 - την ποσότητα του νερού που χρησιμοποιείται παράνομα
 - τη διαφορά $Q_{CARL-EARL}$
 - όλη τη διαφορά $Q_{UARL-UARLopt}$ επειδή η εταιρεία πρέπει να βελτιώσει την κατάσταση του δικτύου της και να πάρει όλα εκείνα τα μέτρα για τις βέλτιστες ελάχιστες αναπόφευκτες απώλειες
 - το μέρος που της αναλογεί της διαφοράς $Q_{EARL-UARL}$.



Κατανομή Ευθύνης Πληρωμής του Κόστους του NRW

Ποσότητες νερού ανά χρήση εντός δικτύου ύδρευσης			Πελάτης	Εταιρεία
			$Q_{CUST}=a*Q_{SIV}$	$Q_{DN}=(1-a)*Q_{SIV}$
Q_{SIV} (100%)	Q_{RW} (60%)	Q_{RW} (60%)	$100\%*(60\%)$	-
	Q_{NRW} (40%)	Q_{UNB} (5%)	$100\%*(5\%)$	-
		Q_{WTH} (2%)	-	$100\%*(2\%)$
		Q_{AL} (15%)	$100\%*(10\%)$	-
		Q_{RER} (3%)	-	$100\%*(3\%)$
		$Q_{CARL-EARL}$ (5%)	-	$100\%*(5\%)$
		$Q_{EARL-UARL}$ (5%)	$a\%*(5\%)$	$(1-a)\%*(5\%)$
		$Q_{UARL-UARLopt}$ (2%)	-	$100\%*(2\%)$
		$Q_{UARLopt}$ (8%)	$100\%*(8\%)$	-
			$Q_{CUST}=(83+5a)\%*Q_{SIV}$	$Q_{DN}=(17-5a)\%*Q_{SIV}$



Από την επίλυση: $\alpha=87,37\%$

(ούτε 60% που θέλει ο καταναλωτής, ούτε 100% που θέλει η εταιρεία ύδρευσης)



Αξιολόγηση Λειτουργίας Δικτύων Ύδρευσης

- Στηρίζεται σε δείκτες αξιολόγησης
- Με το συστηματικό διαχρονικό υπολογισμό των δεικτών αξιολόγησης επιτυγχάνονται:
 - Η διαχρονική παρακολούθηση της απόδοσης του δικτύου
 - Εντοπίζονται οι περιοχές και ο χρόνος που πρέπει να γίνονται βελτιωτικές παρεμβάσεις – επισκευές (χωρίς να έχει αστοχήσει το δίκτυο)
 - Μπορεί να μετράται αντικειμενικά η αποτελεσματικότητα κάθε παρέμβασης στο δίκτυο
 - Μπορούν να γίνονται συγκρίσεις μεταξύ δικτύων με όμοια χαρακτηριστικά



Δείκτες Παρακολούθησης Λειτουργίας Δικτύων & Απωλειών Νερού

Αρχικοί Δείκτες Διαχείρισης Δικτύων

- Ποσοστό Χρήσης (Percentage of Use - %)
- Επίπεδο Παρεχομένων Υπηρεσιών (Grade of Service - p)
- Ποιότητα Παρεχομένων Υπηρεσιών (Quality of Service - %)
- Ταχύτητα Αντίδρασης (Speed of Response - t)
- Αξιοπιστία / Επικινδυνότητα (Reliability / Risk - p)
- Αξιοπιστία Στόχου (Mission Reliability - p)
- Διαθεσιμότητα (Availability - p)
- Σημαντικότητα (Failure / Site Significance - €, p€)
- Επιδιορθωσιμότητα (Reparability / Resiliency - t)
- Τρωτότητα Δικτύου (Vulnerability - p€)
- ◆ Βιωσιμότητα (Sustainability=↑επιδιορθωσιμότητα+↓Τρωτότητα)



Οι 170 Δείκτες Απόδοσης (Alegre et al., 2006)

Δείκτες Απόδοσης / Αριθμός	Δείκτες Απόδοσης / Αριθμός	Δείκτες Απόδοσης / Αριθμός
Υδατικοί πόροι (WR) 4	Λειτουργικοί (Op) 44	Χρηματοοικονομικοί (Fi) 47
Προσωπικό (Pe) 26	Επιθεώρηση & συντήρηση	Έσοδα
Συνολικό προσωπικό	Διαβάθμιση οργάνων	Κόστη
Προσωπικό ανά κύρια λειτουργία	Διαθεσιμότητα οχημάτων	Σύνθεση λειτουργικού κόστους ανά τύπο κόστους
Τεχνικό προσωπικό ανά δραστηριότητα	Επιθεώρηση εξοπλισμού μετάδοσης ηλεκτρικού σήματος	Σύνθεση λειτουργικού κόστους ανά κύρια λειτουργία
Προσόντα προσωπικού	Αποκατάσταση αγωγών/βαλβίδων/συνδέσεων	Σύνθεση κόστους κεφαλαίου
Εξειδίκευση προσωπικού	Επιθεώρηση & συντήρηση εξοπλισμού	Επενδύσεις
Υγιεινή και ασφάλεια προσωπικού	Αποκατάσταση αντλιών	Μέση χρέωση νερού
Υπερωριακή εργασία	Λειτουργικές Απώλειες Νερού	Αποδοτικότητα
Ποιότητα Υπηρεσιών (QS) 34	Αστοχίες	Μόγλευση
Κάλυψη υπηρεσιών	Μέτρηση νερού	Ρευστότητα
Public taps & standpipes	Παρακολούθηση ποιότητας νερού	Κερδοφορία
Πίεση & συνεχής παροχή	Φυσικοί (Ph) 15	Οικονομικές απώλειες νερού
Ποιότητα νερού	Επεξεργασία & αποθήκευση	Σύνθεση λειτουργικού κόστους ανά κύρια λειτουργία επιχείρησης νερού
Παράπονα πελατών	Άντληση	
Τοποθέτηση & επισκευή οικιακών συνδέσεων & μετρητών	Μεταφορά & διανομή	
	Μετρητές	
	Αυτοματισμός & έλεγχος	

ΒΑΣΙΚΗ ΑΡΧΗ: SUPER MARKET=ΠΑΙΡΝΩ ΜΟΝΟ ΟΤΙ ΕΧΩ ΑΝΑΓΚΗ



Μεταβλητές

- 232 μεταβλητές για να υπολογιστούν οι 170 δείκτες απόδοσης
- Οι μεταβλητές μετρώνται στο πεδίο
- Κατηγορίες μεταβλητών:
 - Α-Δεδομένα όγκου νερού
 - Β-Δεδομένα προσωπικού
 - C-δεδομένα φυσικού κεφαλαίου
 - D-δεδομένα λειτουργικά
 - Ε-δημογραφικά δεδομένα και πελατών
 - F-δεδομένα ποιότητας υπηρεσιών
 - G-οικονομικά δεδομένα
 - Η-δεδομένα χρόνου



Νέοι Δείκτες Απόδοσης

- 42 καινούριοι δείκτες απόδοσης:

- 11 προερχόμενοι από τους δείκτες της IWA έχοντας όμως διαφορετικό παρανομαστή
- 31 νέοι δείκτες.
- Υιοθετήθηκαν κάποιιοι δείκτες που έχουν προταθεί από τους: Cabrera et al. 2010, Rizzo et al. 2007.

- Απαιτούνται:

- 41 νέες μεταβλητές

11 Δείκτες προερχόμενοι από τους υπάρχοντες

Δείκτης Απόδοσης	Ερμηνεία	Τύπος	Μονάδες μέτρησης
Op45(a-i)	Πραγματικές απώλειες ανά υλικό αγωγού	A19 / C32(a-i)	m ³ /km
Op46(a-i)	Πραγματικές απώλειες ανά διάμετρο αγωγού	A19 / C33(a-i)	m ³ /km
Op47(a-i)	Πραγματικές απώλειες ανά υλικό & διάμετρο αγωγού	A19 / C34(a-i)	m ³ /km
Op51	Φαινόμενες απώλειες ανά δεξαμενή οροφής	A18 / C26	m ³
Op52	Φαινόμενες απώλειες ανά όγκο δεξαμενής οροφής	(A18/C30)*100	%
Op53	Φαινόμενες απώλειες ανά υδρόμετρο	A18/E6	m ³ /υδρόμετρο
Op54	ALI	A18/(0,05*G3)	
Op55(a-i)	Απώλειες νερού ανά υδατικό πόρο	{A15/(ΣA27(a-i))*100	%
Op58	Μη Ανταποδοτικό νερό ανά σύνδεση	(A21*1000)/C24/H1	lit/σύνδεση/ημέρα
Op59	Μη Ανταποδοτικό νερό ανά μήκος αγωγών	A21/C8	m ³ /km αγωγών/έτος
Op60(a-i)	Αστοχίες αγωγών ανά τύπο αγωγού	[(D79(a-i)*365)/H1/C32(a-i)]	No./km/έτος



31 Νέοι Δείκτες Απόδοσης

Δείκτης Απόδοσης	Ερμηνεία	Τύπος	Μονάδες μέτρησης
Fi48	MCD ανά πραγματικές απώλειες	(A25/A19)*100	%
Fi49	MCD ανά σύνδεση	A25/C24/H1	m ³ /σύνδεση/ημέρα
Fi50	Λογιστικό NRW ανά NRW	(A26/A21)*100	%
Fi51	Κόστος ενέργειας ανά όγκο	G11 / A3	€/m ³
Fi52	προθυμία πληρωμής (ευαισθησία του καταναλωτή σε θέματα έλλειψης νερού & ξηρασίας)	G59/A14	EUR/m ³
Op48	Πραγματικές απώλειες ανά ηλικία αγωγών	A19/C35(a-i)	m ³ /km
Op49	Πραγματικές απώλειες ανά συντελεστής τραχύτητας	A19/C36(a-i)	
Op50	Πραγματικές απώλειες ανά πίεση λειτουργίας	A19/D34	m ³ /m
Op56	Απώλειες νερού ως % της χρήσης νερού (οικιακή, βιομηχανική, εμπορική)	(A15/E14(a-i))*100	%
Op57	Απώλειες νερού ανά ύψος κτιρίων	A15 / C27	m ³ /m
Op61	Ενέργεια διαρροών ή Απώλεια ενέργειας λόγω διαρροών (άθροισμα απωλειών ενέργειας σχετικών με διαρροές και την επιπρόσθετη ενέργεια που απαιτείται για να ξεπεραστούν)	(D77+D73-D74)/D78	
Op62	Standards compliance	(D75/D76)*100	%
Op63	Ανθρακικό Αποτύπωμα ανά Εισερχόμενο Νερό	D72 / A3	tns CO ₂ /m ³
Op64	Αντικατάσταση μετρητών	(D69/C10)*100	%
Op65	Εκτίμηση των αστοχιών σύμφωνα με τον τύπο του υλικού και των fittings στους αγωγούς και τις συνδέσεις των καταναλωτών	D80(a-i) / C31	



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31 Νέοι Δείκτες Απόδοσης (συν.)

Δείκτης Απόδοσης	Ερμηνεία	Τύπος	Μον. μέτρησης
Op66	Ελαστικότητα των αποβλήτων σε σχέση με την πίεση λειτουργίας	$(\Delta A19/A19)/(\Delta D34/D34)$	m ³ /m
Op67	Ελαστικότητα του ρυθμού εμφάνισης αστοχών αγωγών και συνδέσεων που σχετίζονται με την πίεση λειτουργίας	$[\Delta(D28+D29)/(D28+D29)]/(\Delta D34/D34)$	αστοχές/m
Op68	Αριθμός ημερών που απαιτούνται για την επισκευή γεγονότων διαρροών	D70 / D71	ημέρες/επιδιόρθωση
Ph16	Κάτοικοι ανά υδρόμετρο	E5/E6	Inh/wm
Ph17	Ενέργεια ανά όγκο	D68 / A3	KWh/m ³
Ph18	Αναλογία οικιακών υδρομέτρων ηλικίας μικρότερης από 5 χρόνια	$(C28/E6)*100$	%
Ph19	Αναλογία οικιακών υδρομέτρων ηλικίας από 5 έως 10 χρόνια	$(C29/E6)*100$	%
Ph20	Αναλογία οικιακών υδρομέτρων ηλικίας μεγαλύτερης από 10 χρόνια	$(C37/E6)*100$	%
QS35	Μέγεθος οικιακής κατανάλωσης	$(E12/A14)*100$	%
QS36	Μέγεθος εμπορικής κατανάλωσης	$(E13/A14)*100$	%
QS37	Αναλογία παραπόνων για χαμηλή πίεση	$(F27/F15)*100$	%
QS38	Παράπονα σχετικά με χαμηλή πίεση ανά υδρόμετρο	F16/E6	
QS39	Βαθμός ικανοποίησης των καταναλωτών	$(F24/F1)*100$	%
QS40	Βαθμός ικανοποίησης για το νερό βρύσης	$(F25/F1)*100$	%
QS41	Βαθμός ικανοποίησης για τη γεύση του νερού	$(F26/F1)*100$	%
QS42	Βαθμός εκτίμησης των υπαλλήλων σχετικά με την ικανοποίηση των πελατών	$(F28/B1)*100$	%



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Απαιτούμενες Μεταβλητές

Μεταβλητή	Μον. Μέτρ.
A23	Νερό που πωλείται <i>αλλά</i> δεν αποδίδει έσοδα (πωλείται <i>αλλά</i> δεν εισπράττεται)
A24	Νερό που πωλείται και αποδίδει έσοδα (εισπράττεται)
A25	Διαφορά Παγίου (MCD)
A26	Λογιστικό NRW
A27(a-i)	Απόληψη νερού από τον ίδιο υδατικό πόρο
C26	Αριθμός δεξαμενών οροφής
C27	Μέσο ύψος κτιρίων
C28	Οικιακοί υδρομετρητές ηλικίας μικρότερης από 5 χρόνια
C29	Οικιακοί υδρομετρητές ηλικίας από 5 έως 10 χρόνια
C30	Όγκος δεξαμενών οροφής
C31	Συνολικός αριθμός συσκευών
C32(a-i)	Μήκος αγωγών ιδίου υλικού
C33(a-i)	Μήκος αγωγών ίδιας διαμέτρου
C34(a-i)	Μήκος αγωγών ιδίου υλικού και ίδιας διαμέτρου
C35(a-i)	Μήκος αγωγών ίδιας ηλικίας
C36(a-i)	Συντελεστής τραχύτητας
C37	Οικιακοί υδρομετρητές ηλικίας μεγαλύτερης από 10 χρόνια
D66	Ελάχιστη πίεση λειτουργίας
D67	Μέγιστη πίεση λειτουργίας
D68	Χρησιμοποιούμενη ενέργεια
D69	Μετρητές παροχής που αντικαταστάθηκαν
D70	Χρόνος απόκρισης για επισκευή γεγονότων διαρροών
D71	Συνολικός αριθμός επισκευών που πραγματοποιήθηκαν

Μεταβλητή	Μον. Μέτρ.
D72	Ανθρακικό αποτύπωμα που παράχθηκε στην διαδικασία παροχής νερού
D73	Πραγματική ενέργεια που διαχέεται στις απώλειες τριβής
D74	Αξία των απωλειών τριβής σε ένα δίκτυο χωρίς διαρροές
D75	Ενέργεια που μεταφέρεται στους χρήστες
D76	Ελάχιστη απαιτούμενη χρησιμική ενέργεια
D77	Ενέργεια που φεύγει μέσω των διαρροών
D78	Εισερχόμενη ενέργεια που παρέχεται από τις δεξαμενές
D79(a-i)	Αριθμός αστοχιών των αγωγών του ίδιου υλικού
D80(a-i)	Αριθμός του ίδιου τύπου αστοχιών στους αγωγούς και τις συνδέσεις
E12	Οικιακή κατανάλωση
E13	Εμπορική κατανάλωση
E14(a-i)	Χρήση νερού (οικιακή, εμπορική, βιομηχανική)
F24	Αριθμός ικανοποιημένων πελατών
F25	Αριθμός ικανοποιημένων πελατών που πίνουν νερό βρύσης
F26	Αριθμός πελατών που επηρεάζονται από την γεύση και τη χλωρίωση του πόσιμου νερού
F27	Αριθμός παραπόνων σχετικών με χαμηλή πίεση
F28	Αριθμός των υπαλλήλων που θεωρούν ότι οι πελάτες είναι ικανοποιημένοι
G59	Κόστος για την διασφάλιση παροχής νερού



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Επιπλέον Δείκτες

- Ο αδιάστατος δείκτης LOS_{NRW} δηλώνει πόσες φορές περισσότερο είναι το μη ανταποδοτικό νερό από το ελάχιστο:

$$LOS_{NRW} = NRW_C / NRW_M$$

Όπου:

- NRW_C είναι η τρέχουσα τιμή του Μη Ανταποδοτικού Νερού σε $m^3/\text{χρονική μονάδα}$ και
- NRW_M είναι η ελάχιστη τεχνικά επιτεύξιμη τιμή του Μη Ανταποδοτικού Νερού σε $m^3/\text{χρονική μονάδα}$. Αυτή η τιμή του Μη Ανταποδοτικού Νερού επιτυγχάνεται όταν:
 - (α) οι πραγματικές απώλειες λάβουν την βέλτιστη τεχνικά επιτεύξιμη τιμή τους $UARL_{opt}$,
 - (β) οι φαινόμενες απώλειες λάβουν την αποδεκτή τιμή του 2% του εισερχόμενου νερού στο σύστημα και
 - (γ) η μη τιμολογούμενη εξουσιοδοτημένη κατανάλωση λάβει την ελάχιστη τιμή με βάση την πολιτική της εταιρείας ύδρευσης (συνήθως δεν ξεπερνά το 1% του εισερχόμενου νερού στο δίκτυο).

- Έτσι το $NRWM$ μπορεί να εκφραστεί:

$$NRW_M = UARL_{opt} + 2\% \times SIV + UnAC_M$$

- Ο δείκτης ILI_{MAL} εκτιμά το μέγεθος των πραγματικών απωλειών σε σχέση με τις βέλτιστες τεχνικά επιτεύξιμες αναπόφευκτες πραγματικές απώλειες.

$$ILI_{MAL} = CARL / UARL_{opt}$$

Όπου

- ILI_{MAL} είναι ο αδιάστατος δείκτης ILI_{malus} ,
- $CARL$ είναι οι τρέχουσες πραγματικές απώλειες του δικτύου και
- $UARL_{opt}$ είναι οι βέλτιστες αναπόφευκτες απώλειες.
- Στόχος αυτού του δείκτη είναι να δείξει το μέγεθος των πραγματικών απωλειών σε σχέση με τις βέλτιστες απώλειες τους. Είναι προφανές ότι ο δείκτης ILI παίρνει μικρότερες τιμές από τον ILI_{MAL} .



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Εργαλεία Αξιολόγησης (Water Audit Tools)

- BENCHLEAK (McKenzie & Lambert, 2002)

- AQUALITE (McKenzie et al., 2007)

- AQUALIBRE (Bristol Waters)

- LEAKS SUITE of Software

- WB - Easy Calc (Liemberger, 2007)

- Sigma Lite

- AWWA WLCC

- **WB/PI-Calc UTH (Κανακούδης &**

Τσιτσιφλή, 2010)

Software	Based on	Free	Confidence limits	Different units	Outputs			
					W	PIs	ILI	Modified WB
BENCHLEAK	Excel	✓			✓	Some		✓
AQUALITE	-	✓	✓	✓	✓	Some		✓
AQUALIBRE	-		✓	✓	✓	Some		✓
LEAKS Suite	Excel	Only Check Calcs	PIFastCalcs (not free)		✓	Some		✓
WB-EasyCalc	Excel	✓	✓		✓	Some		✓
SigmaLite2		✓	✓			All 170		✓
AWWA Water Audit	Excel	✓	Its own grading system		✓	Some		✓
WB/PI Calc-UTH	Excel	✓	available soon		✓	All 170		✓



WB/PI Calc-UTH® - Εργαλείο Αξιολόγησης (Water Audit Tool)

WB/PI Calc-UTH® ΛΟΓΙΣΜΙΚΟ ΥΠΟΛΟΓΙΣΜΟΥ ΥΔΑΤΙΚΟΥ ΙΣΟΖΥΓΙΟΥ ΔΙΚΤΥΩΝ ΥΔΡΕΥΣΗΣ ΚΑΙ ΔΕΙΚΤΩΝ ΑΠΟΔΟΣΗΣ ΤΗΣ IWA				
version: 2.2				
2010				
ΕΤΑΙΡΕΙΑ ΥΔΡΕΥΣΗΣ:				
ΕΠΙΜΕΛΕΙΑ: Δρ. Β. Κανακακούδης & Δρ. Σ. Ιασισιφάη				
Εργαστήριο Υδρομηχανικής & Περιβαλλοντικής Τεχνικής Τμήμα Πολιτικών Μηχανικών Πανεπιστήμιο Θεσσαλίας				
Εισαγόμενο Νερό Στο Δίκτυο (A_1)	Τιμολογούμενη Εξουσιοδοτημένη Κατανάλωση $(A10-A8+A9)$	Τιμολογούμενη Μετρούμενη Κατανάλωση $(A3)$	Νερό που αποδίδει έσοδα $(A20-A8+A9)$	Νερό που αποδίδει έσοδα και εισπράττεται $(A2-A20-A23)$
	Μη-Τιμολογούμενη Εξουσιοδοτημένη Κατανάλωση $(A13-A11+A12)$	Μη-Τιμολογούμενη μη-Μετρούμενη Κατανάλωση $(A3)$	Μη Ανταποδοτικό (NRV) $(A21-A23-A20)$	Νερό που δεν εισπράττεται $A23$
	Ειρηνικές Απώλειες $(A15-A10+A12)$	Μη-Εξουσιοδοτημένη Κατανάλωση $(A16)$	Λογιστικό Μη Ανταποδοτικό Νερό (Accounted for Non Revenue Water) $(A26-A21-A23)$	
	Απώλειες Νερού $(A15-A3-A14)$	Λόγη Μετρήτων / Μετρήσεων $(A12)$	Πραγματικές Απώλειες $(A15-A13-A16)$	Πραγματικές Απώλειες που αποδίδουν έσοδα (Διαφορά Παγίου) $A23$



Αριθμός Μετρητή	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Α/Α	Δ1	Δ2	Δ3	Δ4	Δ5	Δ6	Δ7	Δ8	Δ9	Δ10	Δ11	Δ12	Δ13	Δ14	Δ15	Δ16	Δ17	Δ18	Δ19	Δ20	Δ21	Δ22	Δ23	Δ24	Δ25	Δ26	Δ27	Δ28	Δ29	Δ30	Δ31	Δ32	Δ33	Δ34	Δ35	Δ36	Δ37	Δ38	Δ39	Δ40
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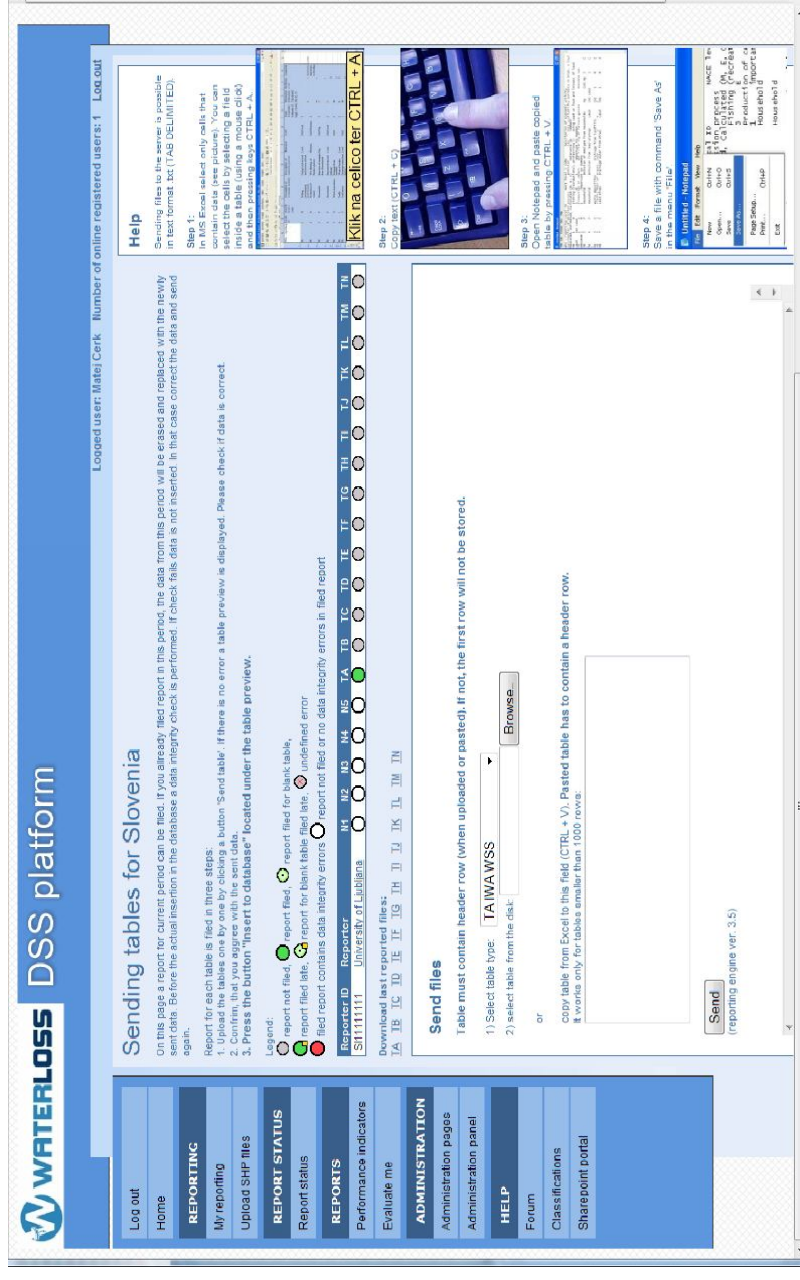
Α/Α	ΟΜΑΔΑ	ΔΕΙΚΤΗΣ	ΕΡΜΗΝΕΙΑ	ΤΥΠΟΣ	ΤΙΜΗ	ΜΟΝΑΔΑ	ΣΧΟΛΙΑ
WR1	Υδατικοί Πόροι	Αντιστοίχιση υδατικών πόρων	Πραγματικές, ασύλπιες κατά την περίοδο μελέτης / εισαγόμενο νερό στο σύστημα κατά την περίοδο μελέτης x 100	$WR1=(A19/A3)*100$		%	
WR2	Υδατικοί Πόροι	Αντιστοίχιση υδατικών πόρων	Εισαγόμενο νερό στο σύστημα / (ετήσια παραγωγή υδατικών πόρων + περιόδους μελέτης) / (ετήσια παραγωγή υδατικών πόρων x 100)	$WR2=A3*365HI/(A1+A)$ $2)*100$		%	
WR3	Υδατικοί Πόροι	Αντιστοίχιση υδατικών πόρων	Εισαγόμενο νερό στο σύστημα κατά την περίοδο μελέτης x 365 / (ετήσια παραγωγή υδατικών πόρων x 100)	$WR3=A3*365HI/(A1+100)$		%	
WR4	Υδατικοί Πόροι	Αντιστοίχιση υδατικών πόρων	Εισαγόμενο νερό στο σύστημα κατά την περίοδο μελέτης / εισαγόμενο νερό στο σύστημα κατά την περίοδο μελέτης x 100	$WR4=(A22/A3)*100$		%	
Pe1	Συνολικό προσαρμοσμένο	Εισαγόμενο νερό	(Πίνακxς, ετήσιος μέσος όρος) εισαγόμενο νερό / αριθμός συνόδων καταστάσεων x 1000	$Pe1=(B1/C24)*1000$		Πίνακxς 1000 συνόδους	
Pe2	Συνολικό προσαρμοσμένο	Εισαγόμενο νερό	(Πίνακxς, ετήσιος μέσος όρος) εισαγόμενο νερό / αριθμός συνόδων καταστάσεων x 1000	$Pe2=[B1/(A6*365HI)]*1000$		Πίνακxς 1000 συνόδους	
Pe3	Συνολικό προσαρμοσμένο	Εισαγόμενο νερό	(Πίνακxς, ετήσιος μέσος όρος) εισαγόμενο νερό / αριθμός συνόδων καταστάσεων x 1000	$Pe3=(B2/B1)*100$		%	
Pe4	Συνολικό προσαρμοσμένο	Εισαγόμενο νερό	(Πίνακxς, ετήσιος μέσος όρος) εισαγόμενο νερό / αριθμός συνόδων καταστάσεων x 1000	$Pe4=(B3/B1)*100$		%	
Pe5	Συνολικό προσαρμοσμένο	Εισαγόμενο νερό	(Πίνακxς, ετήσιος μέσος όρος) εισαγόμενο νερό / αριθμός συνόδων καταστάσεων x 1000	$Pe5=(B4/B1)*100$		%	



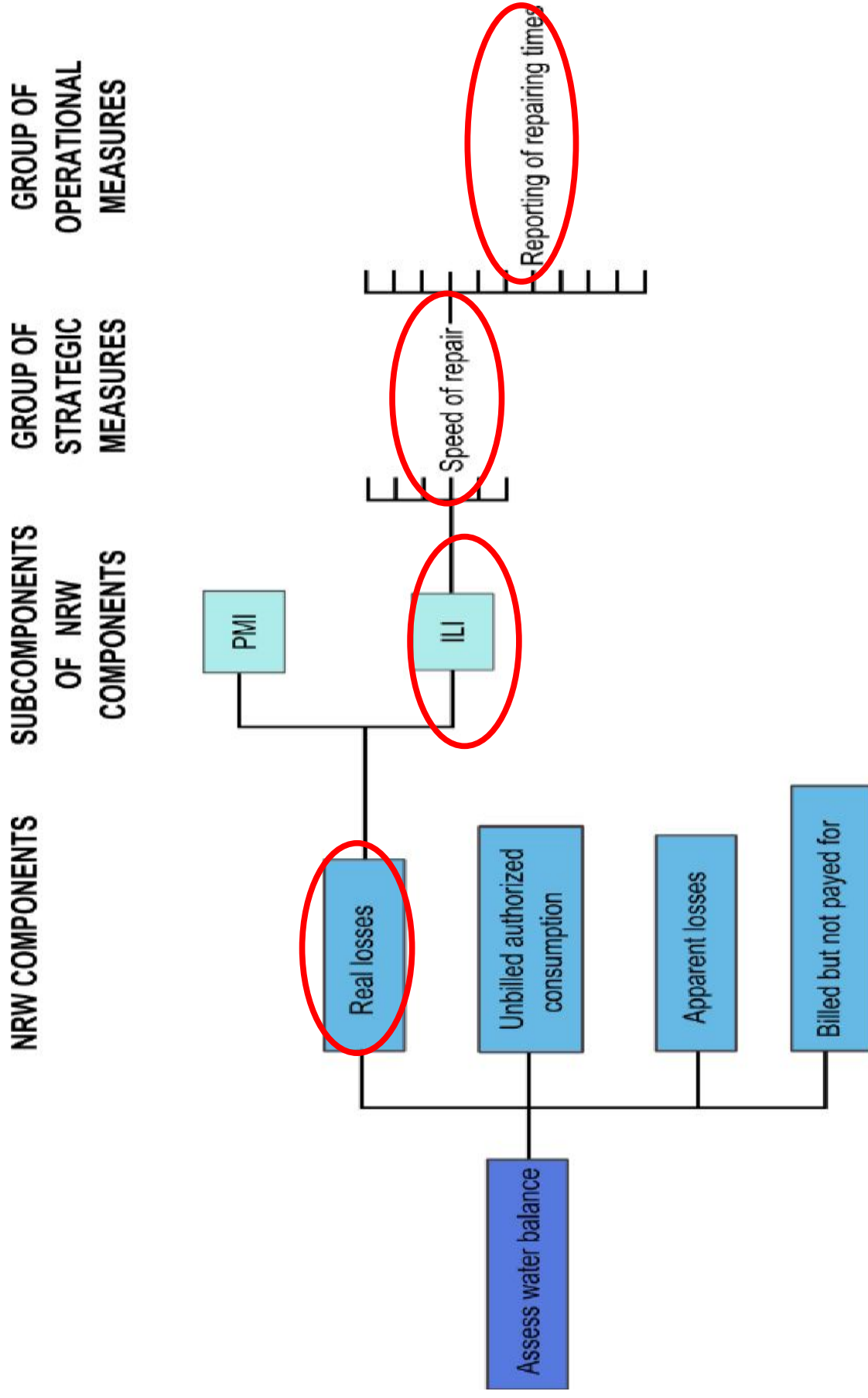
EDSS (Expert Decision Support System)

Βασικός Στόχος

- Το EDSS είναι ένα δυναμικό εργαλείο που δίνει την ευκαιρία στην εταιρεία ύδρευσης να ελέγξει αν ο στόχος του NRW έχει επιτευχθεί και να αναθεωρήσει τις μεθόδους για να επιτύχει τους νέους στόχους του NRW
- Ο κύριος στόχος του είναι να αναγνωρίσει, να συλλέξει και να αξιολογήσει τις μεθόδους και τις διαδικασίες για την παρακολούθηση και τον έλεγχο του NRW που βασίζεται σε προληπτικές πρακτικές



Διαδικασία Επιλογής Μέτρων Μείωσης Μη Ανταποδοτικού Νερού



Υδατικό Ισοζύγιο & Προτεινόμενα Μέτρα

Dashboard

Select data

Preview data

Preview thresholds

Assess WB

WB

Assess your water balance.

Not enough data, Data quality assessment.

Available data: FI46

FI46 [%] Resources Should be > 8

NRW is low. Data Quality assessment.

FI46 [%] Resources Should be < 22.5

NRW is not low.

step: 1. assessment: 1

step: 1. assessment: 2

Suggestions:

-999999 means no data available
FI46 = Non-revenue water by volume = % usually within (10-60)
FI46 = Non-revenue water by volume = % usually within (10-60)
FI46 = Non-revenue water by volume = % usually within (10-60)
You can click on 'assessment' in order to proceed to next step.
If an 'assessment' has a dark blue border, it is suggested by DSS.
You can click on yellow '?' to get additional info.
You can click on top navigation icons to navigate to previous steps.

Implement measures

Εφαρμογή ομάδας μέτρων:

224 - Εκτίμηση των ποσοτήτων νερού που σχετίζονται με το σφάλμα των μετρήσεων (διαχείρισης δεδομένων)
224 - Εκτίμηση των ποσοτήτων νερού που σχετίζονται με το σφάλμα των μετρήσεων (διαχείρισης δεδομένων)
225 - Εκτίμηση των ποσοτήτων νερού που σχετίζονται με το σφάλμα των μετρήσεων (διαχείρισης δεδομένων)
227 - Εφαρμογή μέτρων για να μειωθούν οι διαφορές μεταξύ των μετρήσεων (διαχείρισης δεδομένων)

Measures prioritization	by constructive measures	by importance	by implementation timeframe	by duration of effect	by organizational complexity		
					Importance	Timeframe	Duration
224 - Εκτίμηση των ποσοτήτων νερού που σχετίζονται με το σφάλμα των μετρήσεων (διαχείρισης δεδομένων)	DM-AL02	Βελτιστοποίηση της βάσης δεδομένων τιμολόγησης	***	***	***	***	***
225 - Εκτίμηση των ποσοτήτων νερού που σχετίζονται με το σφάλμα των μετρήσεων (διαχείρισης δεδομένων)	DM-2241	Ορισμός της σημαντικότητας / συχνότητας του επιπέδου ασφαλισμένων μετρήσεων (positive value)	***	***	***	***	***
227 - Εφαρμογή μέτρων για να μειωθούν οι διαφορές μεταξύ των μετρήσεων (διαχείρισης δεδομένων)	V-2251	Εφαρμογή υψηλών προτύπων για παρακολούθηση της λειτουργίας συσκευών	***	***	***	***	***
228 - Εκτίμηση των ποσοτήτων νερού που σχετίζονται με το σφάλμα των μετρήσεων (διαχείρισης δεδομένων)	DM-2242	Προβλεπόμενη επένδυση για τους επεξεργαστές που απαιτούνται με την λειτουργία του νερού (negative value)	***	***	***	***	***
229 - Εφαρμογή μέτρων για να μειωθούν οι διαφορές μεταξύ των μετρήσεων (διαχείρισης δεδομένων)	DM-2243	Ενδυνάμυνση συστημάτων (ή συστημάτων) διασφάλισης της ποιότητας των μετρήσεων	***	***	***	***	***
230 - Εφαρμογή μέτρων για να μειωθούν οι διαφορές μεταξύ των μετρήσεων (διαχείρισης δεδομένων)	DM-AL03	Αναβάθμιση της βάσης δεδομένων τιμολόγησης (ή συσκευών) για να είναι συμβατά με το σύστημα διασφάλισης της ποιότητας των μετρήσεων	***	***	***	***	***
231 - Εφαρμογή μέτρων για να μειωθούν οι διαφορές μεταξύ των μετρήσεων (διαχείρισης δεδομένων)	DM-2244	Ενδυνάμυνση συστημάτων με υψηλή ευελιξία (negative value)	***	***	***	***	***

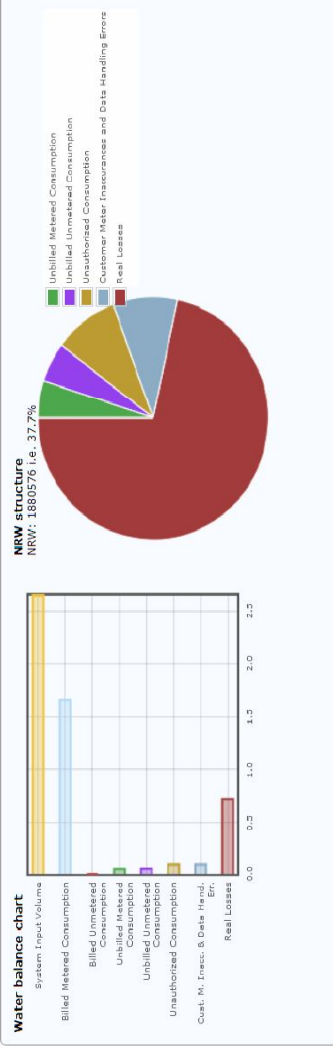


UNIVERSITY OF THESSALY

DRINKADRIA – FB15 & FB16 1η Τεχνική Συνάντηση – Κέρκυρα 22.09.2015

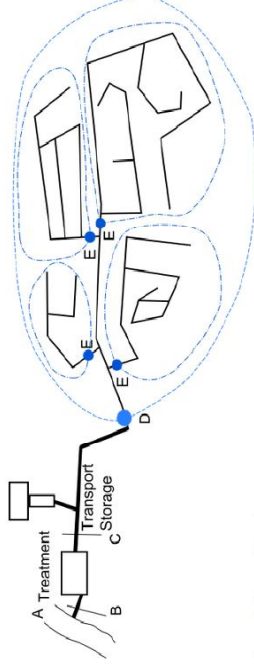
Language: Thresholds applied: Edit thresholds

Pre-step: water balance assessment for RDC / DMA Velenje / 2011 / thresholds ALL



IWA Water Balance Chart

System Input Volume 100%	Authorized Consumption A14 66.2%	Billed Author. Cons. A10 62.3%	Revenue Water A20 62.3%	Bill. paid A24 36.1%	Rev. W. A24 36.1%
Water Losses A15 33.8%	Unbilled Auth. Cons. A13 3.9%	Unb. Met. C. A11 1.9%	Non Revenue Water (NRW) A21 37.7%	Bill not p. A23 6.2%	Bill not p. A23 6.2%
Apparent Losses A16 6.8%	Unauth. C. A16 3.4%	Un. Um. C. A12 2%	Water not being sold A21 37.7%	ACCOUNTED NRW A25 NaN%	ACCOUNTED NRW A25 NaN%
Real Losses A19 27%	C.M. Inacc. A17 3.4%			Min. Ch. Diff. A25 NaN%	Min. Ch. Diff. A25 NaN%



Legend: A ... catchment
B ... before treatment
C ... beginning of distribution (after transport and storage)
D ... beginning of DMA (district metering area)

Next

Previous



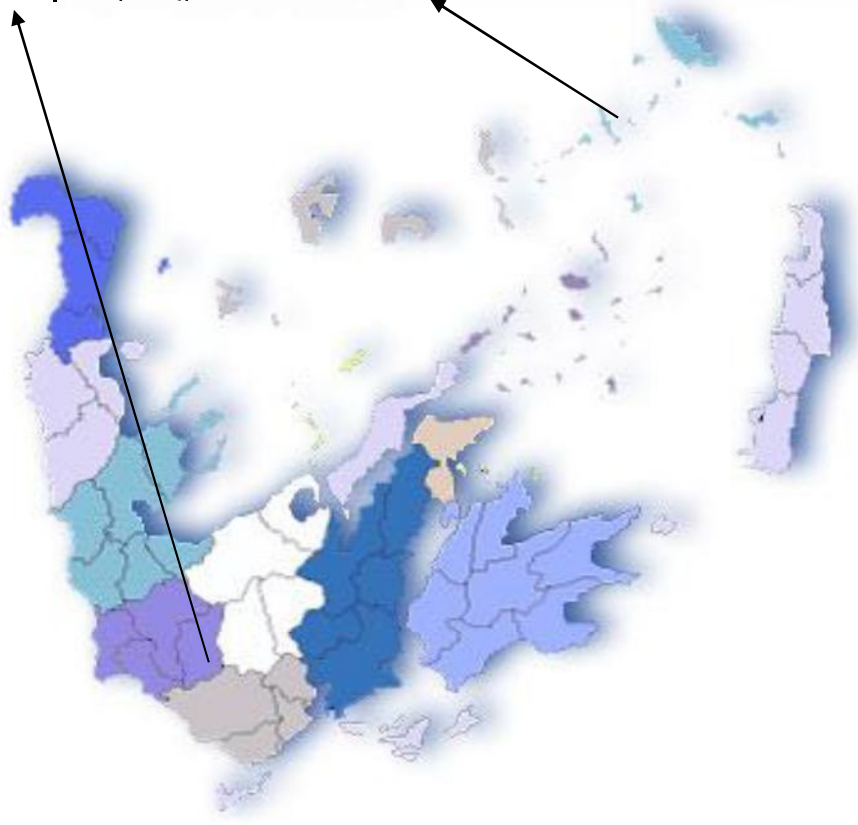
DRINK ADRIA

Ποσοτικά Κριτήρια επιλογής των προτεινόμενων μέτρων

- ΚΡΙΤΗΡΙΟ Α. Οικονομική Αποδοτικότητα του Μέτρου (Cost effectiveness of the measure in terms of the Benefit/Cost Ratio) στην περίοδο μελέτης(Τ).
- ΚΡΙΤΗΡΙΟ Β. Κόστος Εφαρμογής του Μέτρου στην περίοδο μελέτης(Τ).
- ΚΡΙΤΗΡΙΟ Γ. Ποσότητα νερού που εξοικονομείται (ή που παράγει έσοδα) σαν απόλυτος αριθμός ή σαν ποσοστό του νερού που εισέρχεται στο δίκτυο.
- ΚΡΙΤΗΡΙΟ Δ. Χρονικοί περιορισμοί εφαρμογής του Μέτρου.
- ΚΡΙΤΗΡΙΟ Ε. Ενόχληση του Κοινού.



Ενδεικτικά Παραδείγματα Εφαρμογής



Κοζάνη:

Εξυπηρετούμενος πληθυσμός: 35,942

Αριθμός υδρομέτρων: 28.281

NRW: 52,8% SIV (2010)

Κως: πρωτεύουσα του ομώνυμου νησιού, διεθνούς φήμης τουριστικός προορισμός (4^{ος} στην Ελλάδα)
Εξυπηρετούμενος Πληθυσμός: 17.347 (χειμώνας) > 50.000 (καλοκαίρι)

Αριθμός υδρομέτρων: 13,000

NRW: 10,7-37,2% SIV το καλοκαίρι (1999-2008)

36,8-63,7% SIV το χειμώνα (1999-2008)

Λευκωσία:

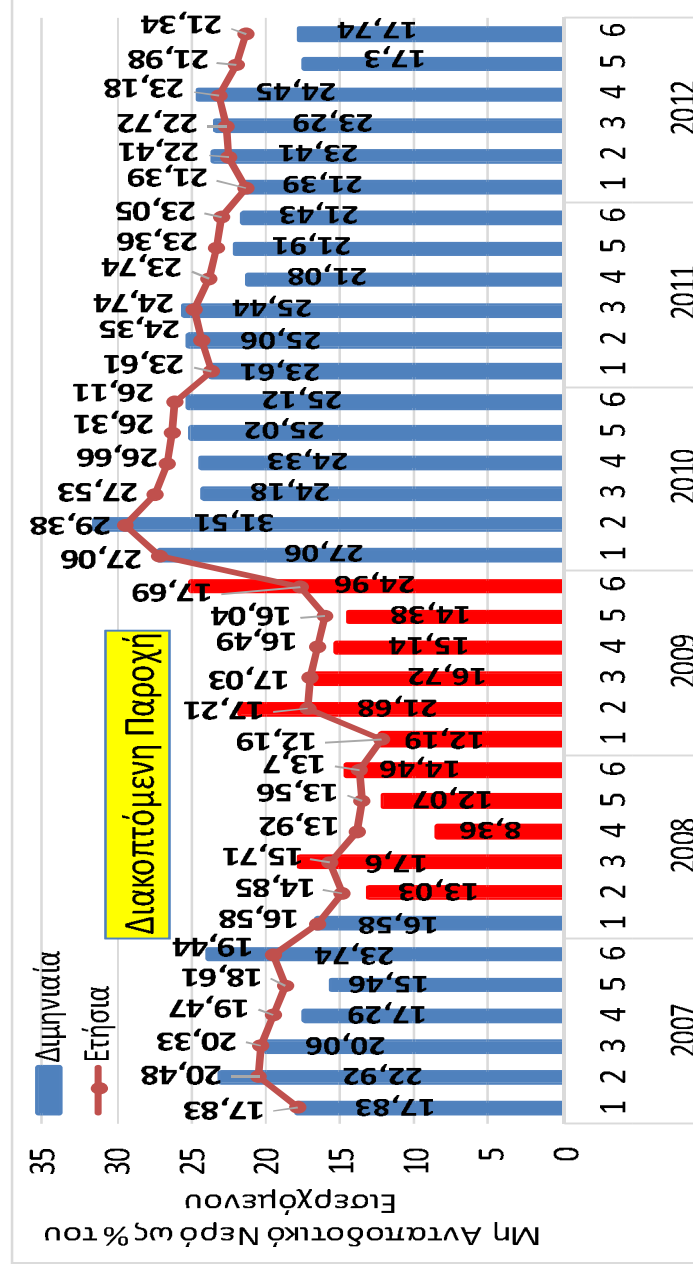
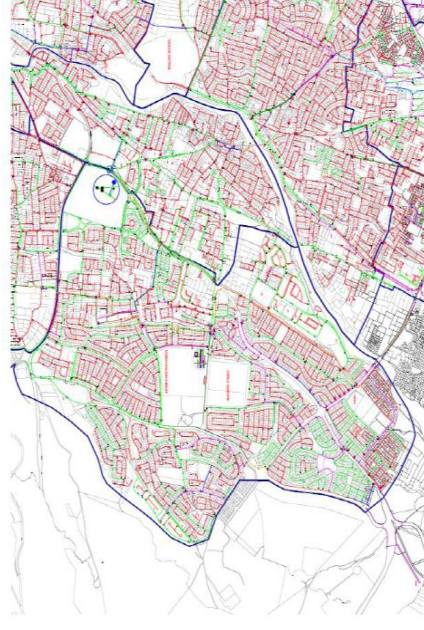
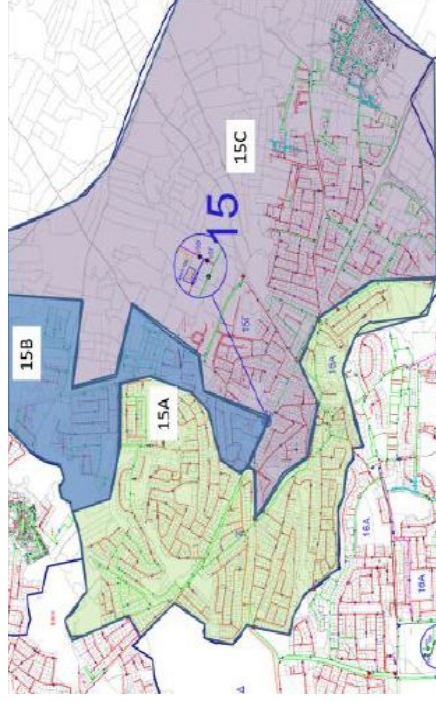
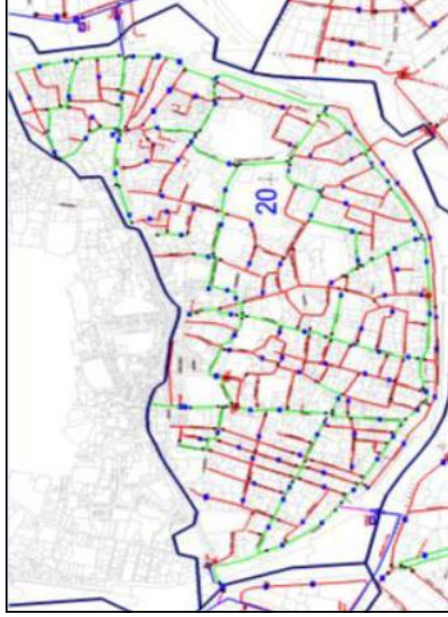
Εξυπηρετούμενος πληθυσμός: 223,640

Αριθμός υδρομέτρων: 106,616

NRW: 30,5% (2010)



Δίκτυο Λευκωσίας



DMA 20: αφανείς διαρροές εξαιτίας της ηλικίας των αγωγών και του τύπου του εδάφους – προβλήματα υποχώρησης του εδάφους

DMA 15: υψηλές τιμές Ελάχιστης Νυχτερινής Παροχής (MNF) και NRW

DMA 17: υψηλές τιμές Ελάχιστης Νυχτερινής Παροχής (MNF) και NRW



Μεθοδολογία Αντιμετώπισης Προβλημάτων

1. Αξιολόγηση του επιπέδου λειτουργίας:
 - Υδατικό Ισοζύγιο
 - Δείκτες Απόδοσης
2. Εφαρμογή του EDSS:
 - Κατάλογος μέτρων για την μείωση του NRW
3. Επιλογή των κατάλληλων μέτρων
4. Εφαρμογή των μέτρων:
 - Αντιμετώπιση Πραγματικών Απωλειών
 - Αντιμετώπιση Φαινόμενων Απωλειών
5. Αποτελέσματα

Waterloss reduction DSS - step 1 for WBN / DMA Nicosia / 2010 / thresholds CY

Preview data Preview thresholds Assess WBN **ΥΔΑΤΙΚΟ ΙΣΟΖΥΓΙΟ**

Εκτιμήστε το Υδατικό Ισοζύγιο του δικτύου

?

Δεν υπάρχουν αρκετά δεδομένα. Αξιολογήστε την ποιότητα των δεδομένων.

Available data: FI46

Your values: 30.08 Should be: > 8

step 1, assessment: 1 ?

Το επίπεδο του Μη Αναποδοστού Νερού είναι χαμηλό. Αξιολογήστε την ποιότητα των δεδομένων.

FI46 [%] Your values: 30.08 Should be: > 8

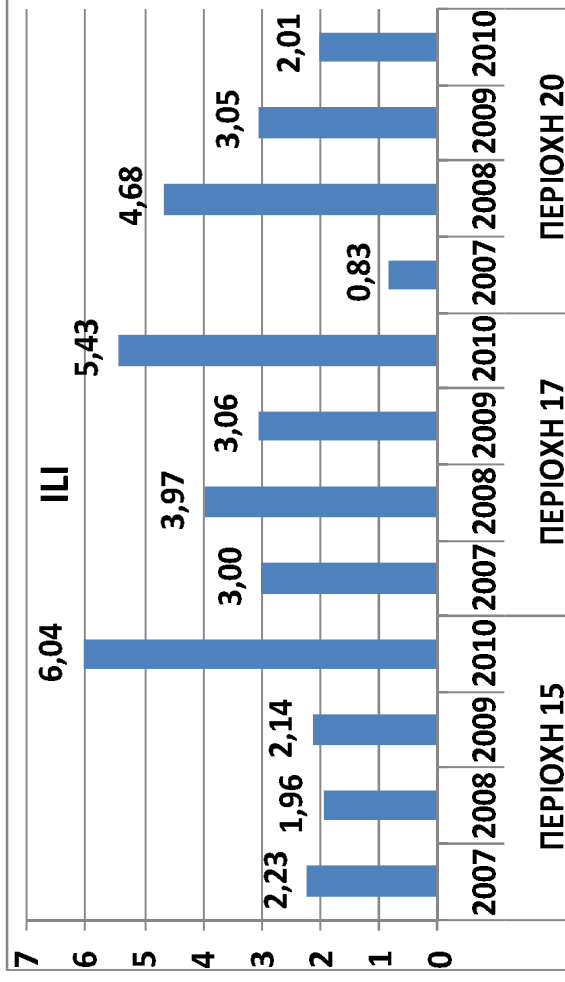
step 1, assessment: 2 ?

Το επίπεδο του Μη Αναποδοστού Νερού ΔΕΝ είναι χαμηλό

FI46 [%] Your values: 30.08 Should be: < 25

step 1, assessment: 3 ?

System Input Volume 2.334,840	Authorized Consumption 1.603,283	Billed Authorized Consumption 1.591,609	Billed Metered Consumption 1.591,609	Revenue Water 1.591,609	Revenue Water 1.591,609	
			Billed Un-metered Consumption 0	Water billed but NOT PAID for (apparent NRW), 0		
	Water Losses) 731,557	Unbilled Authorized Consumption 11,674	Unbilled Metered Consumption 0	Non Revenue Water (NRW) (743,231	Accounted Non Revenue Water 493,301	
			Unbilled Un-metered Consumption 11,674			
		Apparent Losses 139,227	Unauthorized Consumption 23,348		Customer Meter Inaccuracies & Data Handling Errors 115,879	Water Losses generating revenues (MCD) 249,930
		Real Losses 592,329				



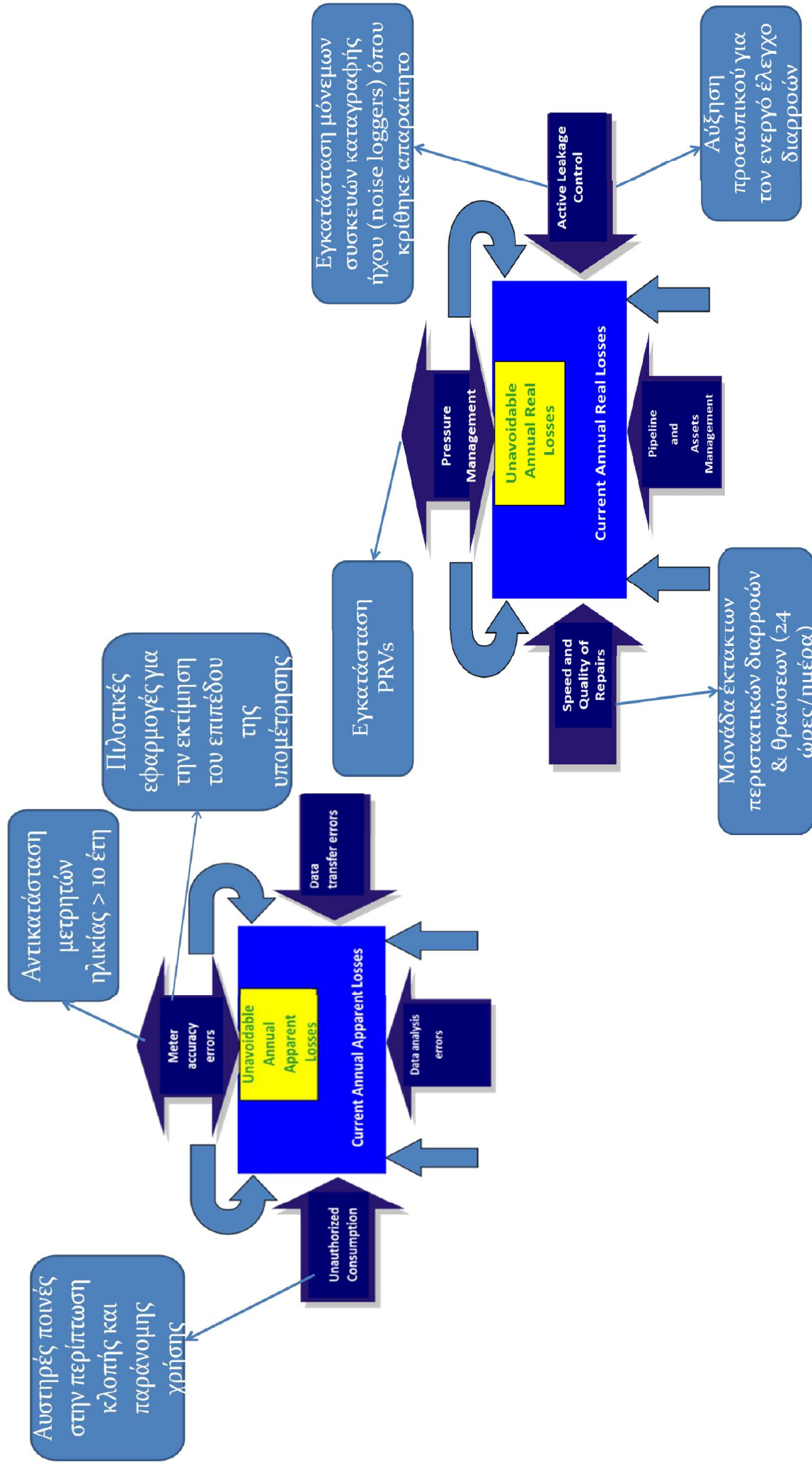
DRINKADRIA

DRINKADRIA – FB15 & FB16 1^η Τεχνική Συνάντηση– Κέρκυρα 22.09.2015



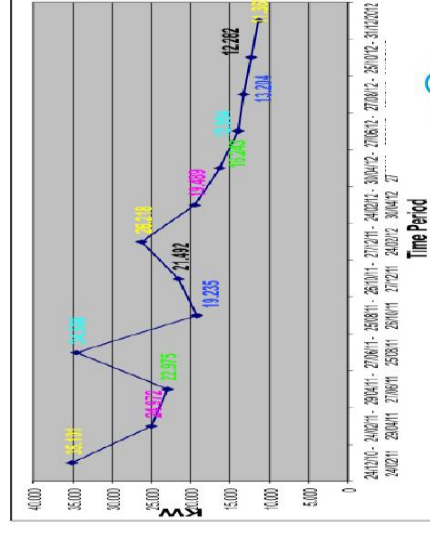
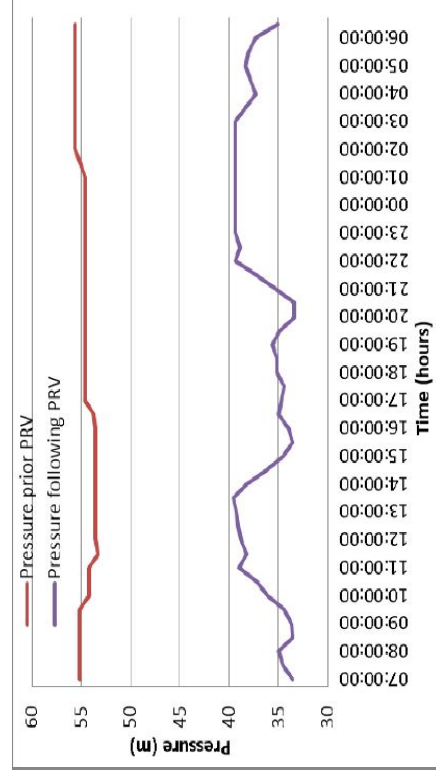
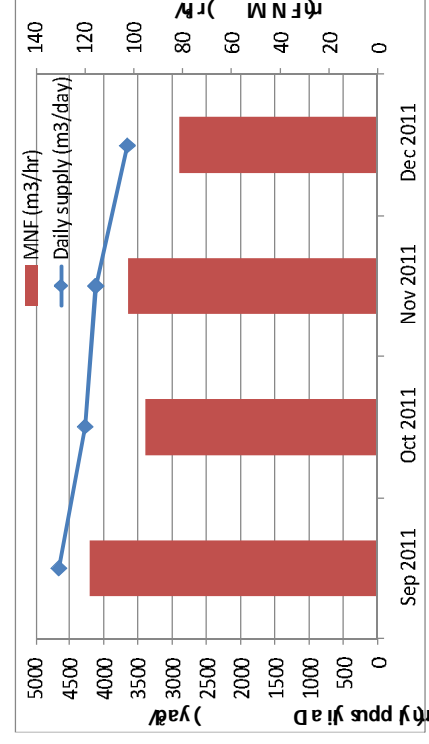
UNIVERSITY OF THESSALY

Επιλογή μέτρων αντιμετώπισης Φαινόμενων & Πραγματικών Απωλειών



Τελικά Αποτελέσματα

DMA	Μέτρα	Εξοικονόμηση νερού (m ³ /έτος)	Εξοικονόμηση χρημάτων (€/έτος)	Παροχή νερού σε επιπλέον κατοίκους	Επιπρόσθετα οφέλη
15	Διαχείριση Πίεσης	77.000	59.254	1.800	Μείωση διαρροών
15	Ενεργός Έλεγχος Διαρροών	266.450	205.166	6.300	
14A, 14B, 16A	Διαχείριση Πίεσης	400.000	308.000	9.500	
20	Διαχείριση Πίεσης	93.000	71.610	2.200	
20	Ενεργός Έλεγχος Διαρροών	43.000	32.850	1.040	
17	Διαχείριση Πίεσης	21.883	16.850	521	Εξοικονόμηση ενέργειας



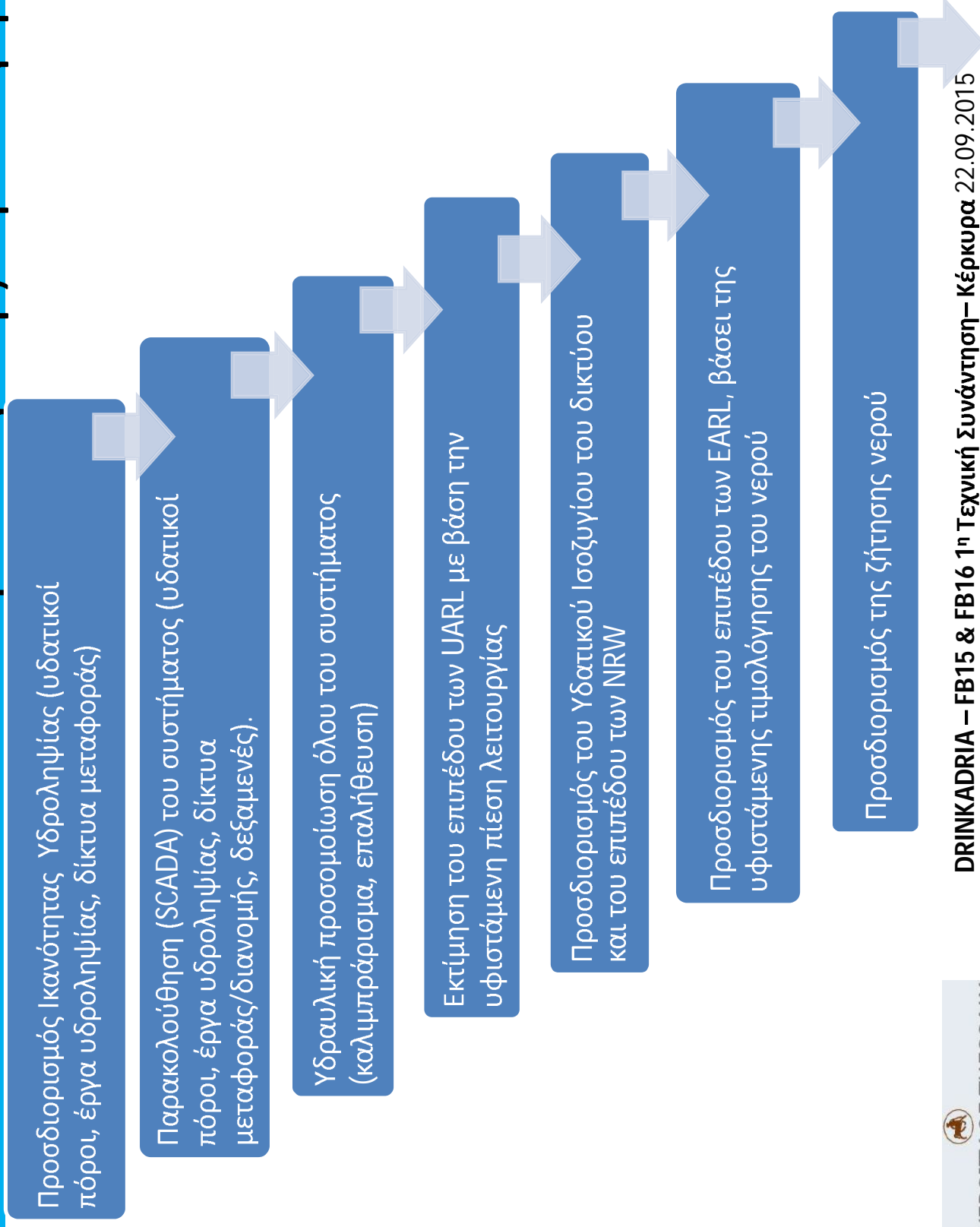
DRINKADRIA

DRINKADRIA – FB15 & FB16 1^η Τεχνική Συνάντηση– Κέρκυρα 22.09.2015



UNIVERSITY OF THESSALY

20 Βήματα διαμόρφωσης στρατηγικής μείωσης των απωλειών και ορθολογικής τιμολόγησης



20 Βήματα διαμόρφωσης στρατηγικής μείωσης των απωλειών και ορθολογικής τιμολόγησης (συν.)



20 Βήματα διαμόρφωσης στρατηγικής μείωσης των απωλειών και ορθολογικής τιμολόγησης (συν.)

Προσδιορισμός της νέας μειωμένης μέσης μοναδιαίας ανταπόδοσης / τιμής του νερού βάσει του νέου FWC

Προσδιορισμός του νέου (αυξημένου) επιπέδου των EARL λόγω της μειωμένης τιμής νερού

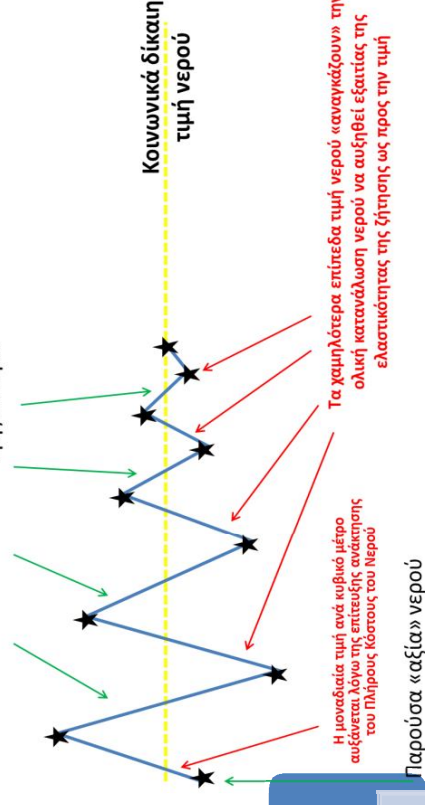
Προσδιορισμός των σημείων επέμβασης και εφαρμογή της πλέον συμφέρουσας λύσης μέσω διενέργειας ανάλυσης Κόστους-Οφέλους. Εφαρμογή

Προσδιορισμός των νέων (μειωμένων) επιπέδων UARL, NRW λόγω μείωσης των απωλειών από τις επιλεγμένες δράσεις

Προσδιορισμός της νέας αυξημένης ζήτησης λόγω μείωσης της τιμής του νερού

Επανάληψη των 8-19. Το σύστημα θα ισορροπήσει μετά από κάποιους κύκλους στο «σημείο βιωσιμότητας». Σε αυτό το σημείο το UARL θα τείνει στο ελάχιστο, το EARL στο UARL και το CARL στο EARL

Η τιμή του νερού μειώνεται εξαιτίας των στρατηγικών μείωσης του Μη Ανταποδοτικού Νερού (π.χ. διαχείριση πίεσης) και την αύξηση των επιπέδων του EARL λόγω της προηγούμενης αύξησης της τιμής του νερού





Ευχαριστώ!!

Ομάδα Πανεπιστημίου Θεσσαλίας

Συντονιστής: Αναπλ. Καθ. Βασίλης Κανακούδης
Δρ. Σταυρούλα Τσιτσιφλή (Αναπλ. Συντον. Τεχνικού Αντικειμένου)
Αναστασία Παπαδοπούλου (Αναπλ. Συντον. Οικον. Αντικ. & Τεχνική Υποστ.)

Αλεξάνδρα Ρουβά (Τοπικός Συντονιστής)
Ιωάννα Χυτήρη (Βοηθός Τοπικού Συντονιστή)

Αλέξανδρος Πρίγκος (Financial Auditor)

Ιφιγένεια Αργυριάδου (Τεχνική Υποστήριξη)

Ευμορφία Δροσίτη (Τεχνική Υποστήριξη)

Κέρκυρα, 22 Σεπτεμβρίου 2015

Let's grow up together



DRINK ADRIA



The project is co-funded by the European Union,
Instrument for Pre-Accession Assistance



UNIVERSITY OF THESSALY

Μοντελοποίηση δικτύων ύδρευσης, ανάπτυξη DMAs και εφαρμογή προγραμμάτων διαχείρισης πίεσης Πανεπιστήμιο Θεσσαλίας, Ελλάδα Συντονιστής: Αναπλ. Καθηγ. Βασίλης Κανακούδης

Κέρκυρα, 21 Σεπτεμβρίου 2015



The project is co-funded by the European Union,
Instrument for Pre-Accession Assistance

Let's grow up together

ΑΝΑΠΤΥΞΗ ΥΔΡΑΥΛΙΚΟΥ ΜΟΝΤΕΛΟΥ ΜΕ ΚΑΤΑΛΛΗΛΗ ΕΝΣΩΜΑΤΩΣΗ ΤΟΥ ΜΗ ΑΝΤΑΠΟΔΟΤΙΚΟΥ ΝΕΡΟΥ

ΧΡΗΣΗ ΤΩΝ ΜΟΝΤΕΛΩΝ ΤΩΝ ΔΙΚΤΥΩΝ ΥΔΡΕΥΣΗΣ

Μια από τις βασικές λειτουργίες των υδραυλικών μοντέλων είναι η δοκιμή διαφόρων σεναρίων λειτουργίας, καθώς αυτό είναι απαγορευτικό να γίνει στο πεδίο. Μεταξύ άλλων, μπορούν να δημιουργηθούν σενάρια για τα εξής:

- 1. Προσδιορισμός των φυσικών χαρακτηριστικών των στοιχείων του δικτύου:**
Χρησιμεύει για επεκτάσεις δικτύων, αντικατάσταση αγωγών, έλεγχο λειτουργίας διαφόρων τύπων αντλιών κλπ.
- 2. Προσδιορισμός της κατανάλωσης του δικτύου:** Χρησιμεύει για δημιουργία σεναρίων λειτουργίας δικτύων για διαφορετικές εποχές του χρόνου.
- 3. Αρχικές ρυθμίσεις συσκευών:** Εδώ διαμορφώνονται διάφορα σενάρια ζωνοποίησης δικτύου, θέτοντας ανενεργές ή όχι τις βαλβίδες απομόνωσης και οποιοδήποτε άλλο στοιχείο του δικτύου.



ΧΡΗΣΗ ΤΩΝ ΜΟΝΤΕΛΩΝ ΤΩΝ ΔΙΚΤΥΩΝ ΥΔΡΕΥΣΗΣ

- 4. Λειτουργία Συσκευών:** Διαφορετικά σενάρια λειτουργίας και βέλτιστης χρήσης συσκευών (κυρίως αντλιοστασίων).
- 5. Ποιότητας νερού:** Αφορούν τον διαφορετικό ρυθμό διάλυσης του υπολειμματικού χλωρίου ή νοσογόνων διαλυμάτων.
- 6. Ενεργειακό κόστος:** Εξετάζονται διάφορα σενάρια κόστους ενέργειας λόγω διαφορετικής χρέωσης (νυχτερινής κλπ) και υπολογίζεται το κόστος λειτουργίας αντλιοστασίων.
- 7. Ποσοστό εξάρτησης της κατανάλωσης από την πίεση:** Ανάλογα με το ποσοστό των πραγματικών απωλειών στο δίκτυο, μεταβάλλεται ο βαθμός εξάρτησης από την πίεση και ο όγκος νερού που εξοικονομείται.



ΠΟΡΕΙΑ ΥΛΟΠΟΙΗΣΗΣ ΜΟΝΤΕΛΟΥ (ΓΕΩΜΕΤΡΙΑ ΔΙΚΤΥΟΥ)

- Πολλές ΔΕΥΑ έχουν το δίκτυο τους σε μορφές **ArcGIS**, **EPANET** και **AutoCAD**.
- Απαιτείται η επικαιροποίηση των υπάρχοντων ψηφιακών - και όχι μόνο - υποβαθρων της οριζοντιογραφίας του δικτύου
- Απαιτείται επαλήθευση των υψομέτρων των κόμβων με δειγματοληπτικό έλεγχο
- Επαλήθευση στοιχείων δεξαμενών, όπως ανώτατη/κατώτατη στάθμη, ωφέλιμος όγκος.
- Επαλήθευση στοιχείων εισερχομένου νερού στο σύστημα και υπολογισμός εισερχόμενου νερού σε μηνιαία βάση.
- Επαλήθευση συνδεσμολογίας κόμβων (καθορισμός ανοιχτών και κλειστών βανών).
- Επαλήθευση θέσεων υφιστάμενων συσκευών ρύθμισης πίεσης, αντλιοστασίων κλπ.



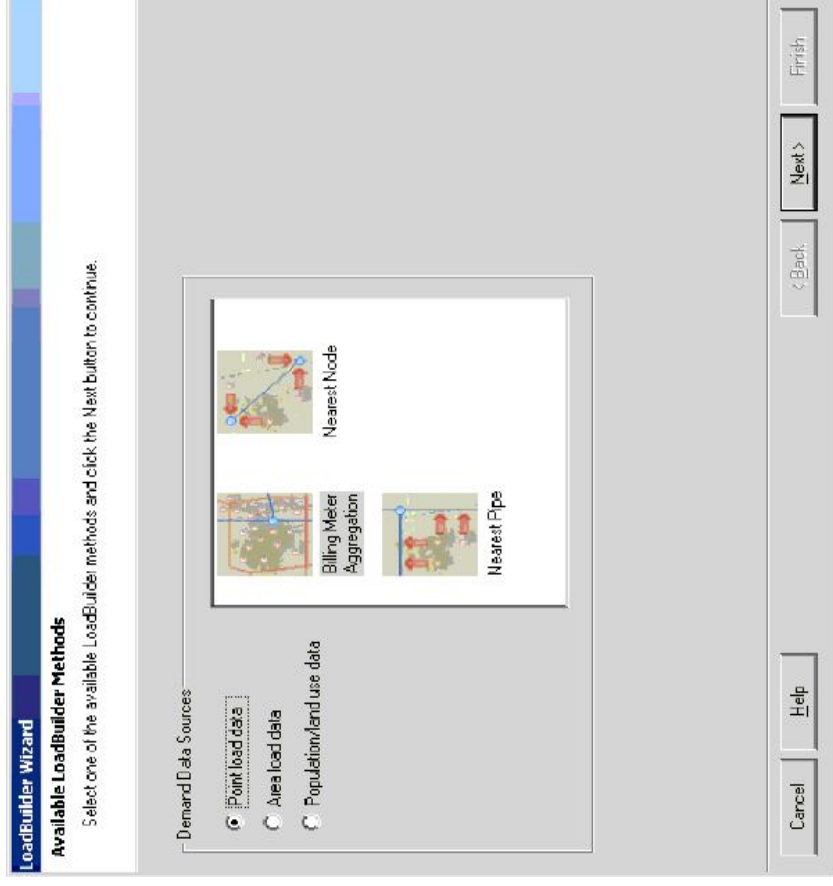
ΠΟΡΕΙΑ ΥΛΟΠΟΙΗΣΗΣ ΜΟΝΤΕΛΟΥ (ΧΩΡΙΚΗ ΚΑΤΑΝΟΜΗ ΤΩΝ ΚΑΤΑΝΑΛΩΣΕΩΝ)

- ❖ Αποφασιστικής σημασίας είναι η γεωαναφορά των υδρομέτρων και η συγκέντρωση της πληροφορίας σε GIS λογισμικό.

- ❖ Μέσω κατάλληλης λειτουργίας του λογισμικού εισάγονται οι θέσεις των υδρομέτρων στο μοντέλο και η κατανάλωση οδηγείται από τα υδρόμετρα στους κοντινότερους αγωγούς σε ευθεία απόσταση και από εκεί στον ανάντι και κατάντι κόμβο των αγωγών αυτών σε αναλογία μήκους. Πρόκειται για την πιστότερη εκτίμηση της χωρικής κατανομής της κατανάλωσης.

- ❖ Σε περίπτωση απουσίας πληροφορίας γεωαναφοράς των υδρομέτρων συνηθίζονται τεχνικές κατανομής συνήθως μέσω πολυγώνων Thiessen.

- ❖ Από το Εργαστήριο Υδρομηχανικής και Τεχνικής Περιβάλλοντος του ΠΘ αναπτύχθηκε μέθοδος κατανομής της κατανάλωσης των υδρομέτρων, η **SAWDSL** και εφαρμόστηκε με επιτυχία στην ΔΕΥΑ Κω.

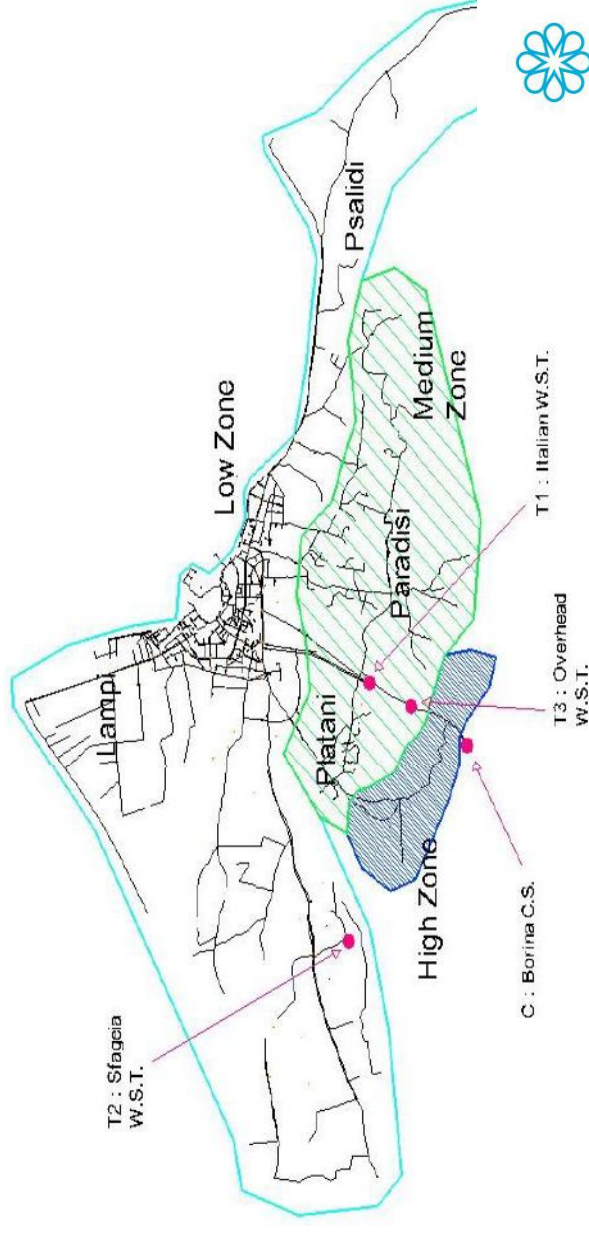


ΕΦΑΡΜΟΓΗ ΤΗΣ ΜΕΘΟΔΟΥ SAWDSL ΣΤΟ ΜΟΝΤΕΛΟ ΤΗΣ ΔΕΥΑ ΚΩ



Το δίκτυο της πόλης της ΚΩ με φόντο
δορυφορική αποτύπωση εδάφους (google
earth).

Ζώνες πίεσης και δεξαμενές αποθήκευσης νερού
στο δίκτυο ύδρευσης της πόλης της Κω.



ΕΦΑΡΜΟΓΗ ΤΗΣ ΜΕΘΟΔΟΥ SAWDSL ΣΤΟ ΜΟΝΤΕΛΟ ΤΗΣ ΔΕΥΑ ΚΩ

$$WD_{(s)} = \sum WMR_{(s)}$$

$$L_{j(s)} = \frac{D_{(j-1),j} + D_{j,(j+1)}}{2}$$

$$L_{(s)} = \sum L_{j(s)}$$

$$WD_{j(s)} = WD_{(s)} * \left[\frac{L_{j(s)}}{L_{(s)}} \right]$$

$$WD_j = \sum WD_{j(s)}$$

όπου: $WD_{(s)}$ είναι η συνολική κατανάλωση νερού μιας συγκεκριμένης διαδρομής (οδού), $WMR_{(s)}$ είναι οι καταγραφές των υδρομέτρων της οδού s , $L_{j(s)}$ είναι το ισοδύναμο μήκος επιρροής του κόμβου j της οδού s , D είναι το μήκος της απόστασης μεταξύ δύο κόμβων, $L_{(s)}$ είναι το συνολικό μήκος της οδού s , $WD_{j(s)}$ είναι η τελική κατανάλωση του κόμβου j της οδού s και WD_j είναι η τελική κατανάλωση του κόμβου j που προκύπτει από όλες τις οδούς των οποίων είναι τμήμα.

➤ Η χωρική κατανομή της ζήτησης, που βασίζεται στην προτεινόμενη μέθοδο SAWDSL, είναι ουσιαστικά μία συνδυαστική μέθοδος.

➤ Χρησιμοποιείται μία τεχνική εισαγωγής της ζήτησης των μεγάλης κλίμακας καταναλωτών απευθείας στους κόμβους και έπειτα η εναπομένουσα ζήτηση ομαδοποιείται μέσω μιας τεχνικής κατανομής της παροχής.

➤ Η ζήτηση κατανέμεται κατά μήκος των οδών (και των αγωγών) στο κέντρο της πόλης και με αναλογική κατανομή με βάση το σχετικό μήκος της οδού (και σε ορισμένες περιπτώσεις, την πυκνότητα κτιρίων) σε οδούς στα αραιοκατοικημένα όρια της πόλης.



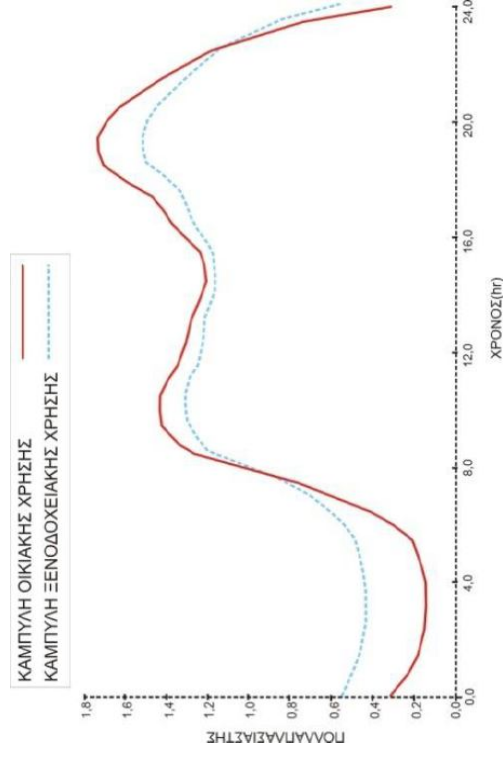
ΠΟΡΕΙΑ ΥΛΟΠΟΙΗΣΗΣ ΜΟΝΤΕΛΟΥ (ΧΡΟΝΙΚΗ ΚΑΤΑΝΟΜΗ ΤΩΝ ΚΑΤΑΝΑΛΩΣΕΩΝ)

Οι χρονικές μεταβολές των καταναλώσεων οφείλονται:

- στην εποχική διακύμανση (μέτρηση των υδρομέτρων – διμηνιαία, τριμηνιαία, τετραμηνιαία),
- Στην διακύμανση με βάση τις ημέρες της εβδομάδας (άλλες ποσότητες τις εργάσιμες, άλλες ποσότητες τα σαββατοκύριακα)
- Στην διακύμανση κατά την διάρκεια του **24**ωρου.

Για την εξαγωγή ορθών ποσοτικών και ποιοτικών αποτελεσμάτων απαιτείται:

- η επίλυση του δικτύου για κάθε μήνα ξεχωριστά.
- Η δημιουργία καμπύλων κατανάλωσης στη διάρκεια του 24ωρου, οι οποίες βασίζονται σε μετρήσεις πεδίου και μετρήσεις δειγματοληπτικών καταναλωτών.



ΠΟΡΕΙΑ ΥΛΟΠΟΙΗΣΗΣ ΜΟΝΤΕΛΟΥ (Η ΧΩΡΙΚΗ ΚΑΤΑΝΟΜΗ ΤΩΝ ΠΡΑΓΜΑΤΙΚΩΝ ΑΠΩΛΕΙΩΝ)

Η προτεινόμενη κατανομή του όγκου των πραγματικών απωλειών στους κόμβους του μοντέλου, ακολουθεί την χωρική κατανομή των καταγεγραμμένων καταναλώσεων σε συνδυασμό με **βαρυτικούς συντελεστές**

- λόγω αναπτυσσόμενων μέγιστων πιέσεων στους κόμβους του μοντέλου και
- λόγω συχνότητας θραύσεων ανά μήκος αγωγού (ανά διαφορετικό υλικό). Η έννοια της συχνότητας θραύσεων λαμβάνει υπόψη και τον βαθμό γήρανσης των αγωγών.

- Ο τελικός συντελεστής της «κατανάλωσης» των πραγματικών απωλειών του κόμβου j επί των συνολικών πραγματικών απωλειών του δικτύου υπολογίζεται από παρακάτω εξίσωση (Kanakoudis and Gonelas, 2015).

$$a_f(j) = \frac{a_{SAWDSL(j)} * a_{P(j)} * a_{B(j)}}{\sum_{j=1}^n a_{SAWDSL(j)} * a_{P(j)} * a_{B(j)}}$$

όπου: $a_{f(j)}$ είναι ο τελικός συντελεστής της συνολικής “NRW κατανάλωσης” που κατανέμεται στον κόμβο j [%], $a_{SAWDSL(j)}$ είναι ο συντελεστής κατανομής της μετρούμενης κατανάλωσης του κόμβου j όπως προέκυψε από την μέθοδο SAWDSL [%], $a_{P(j)}$ και $a_{B(j)}$ είναι αδιάστατοι συντελεστές που εκφράζουν την συμβολή της πίεσης και της κατάστασης των αγωγών αντίστοιχα στην “NRW κατανάλωση” του κόμβου j .

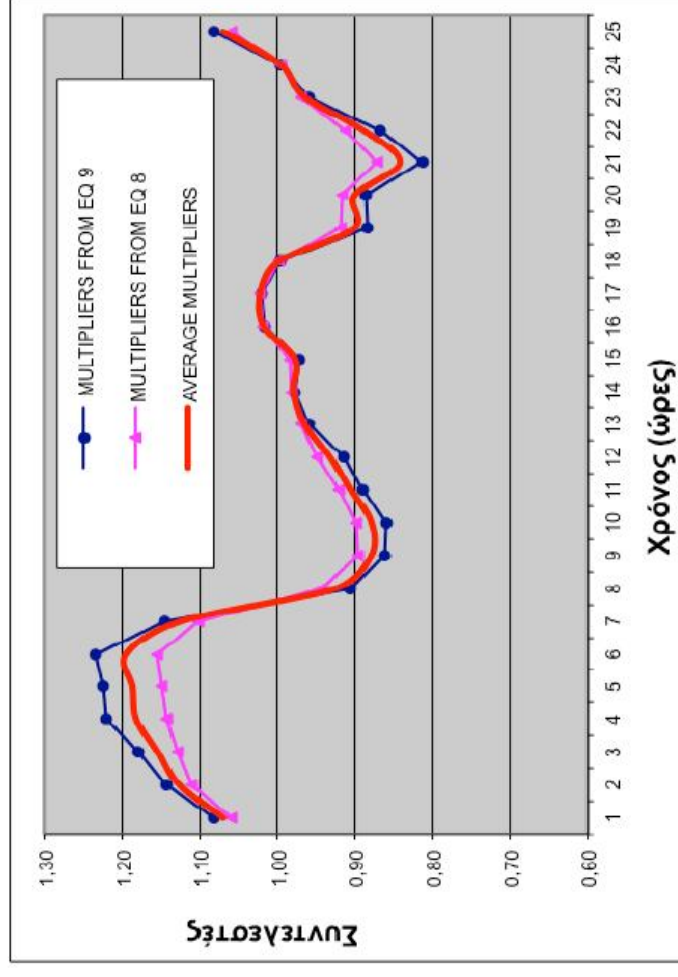


ΠΟΡΕΙΑ ΥΛΟΠΟΙΗΣΗΣ ΜΟΝΤΕΛΟΥ (Η ΧΡΟΝΙΚΗ ΚΑΤΑΝΟΜΗ ΤΩΝ ΠΡΑΓΜΑΤΙΚΩΝ ΑΠΩΛΕΙΩΝ)

Ο υπολογισμός της 24ωρης διακύμανσης των πραγματικών απωλειών νερού μπορεί να πραγματοποιηθεί μέσα από την ημερήσια διακύμανση των διαρροών, που βασίζεται στην πίεση. Υπολογίζονται αρχικά με την βοήθεια του υδραυλικού μοντέλου οι μέσες τιμές των πιέσεων ανά ώρα σε κάθε **DMA**. Έπειτα, η 24ωρη διακύμανση των πραγματικών απωλειών ανά DMA υπολογίζεται με τη βοήθεια της εξίσωσης.

$$Q = k * P^{0,5}$$

Εφόσον το δίκτυο δεν είναι χωρισμένο σε **DMAs**, μπορούν να εξαχθούν οι συντελεστές **24-ωρης** διακύμανσης των πραγματικών απωλειών για όλο το δίκτυο.

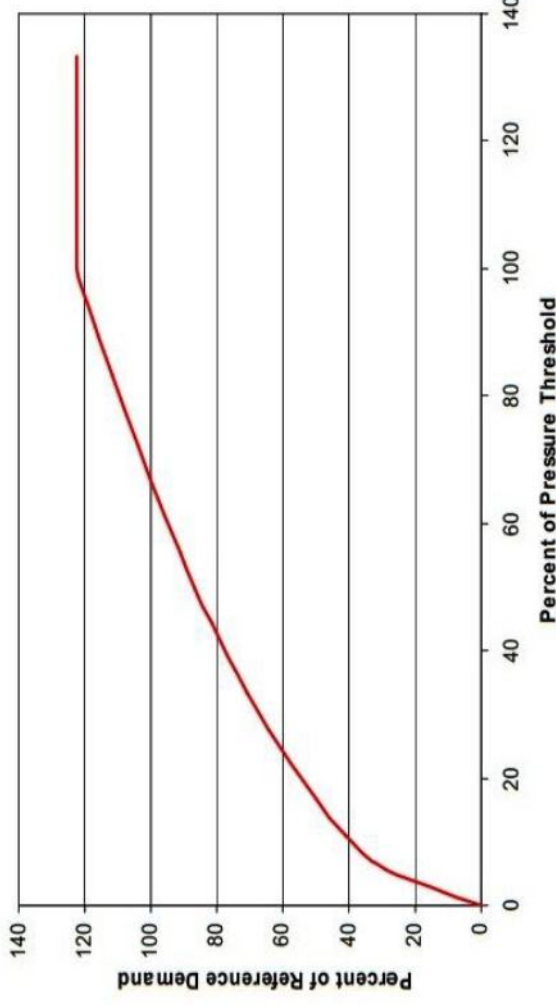


ΠΟΡΕΙΑ ΥΛΟΠΟΙΗΣΗΣ ΜΟΝΤΕΛΟΥ (Η ΕΞΑΡΤΗΣΗ ΤΩΝ ΚΑΤΑΝΑΛΩΣΕΩΝ ΑΠΟ ΤΗΝ ΠΙΕΣΗ)

Σε αντίθεση με την συμβατική προσέγγιση της εξαρτημένης από την ζήτηση κατανάλωσης, η ζήτηση είναι συνάρτηση της πίεσης (**Pressure Dependent Demand - PDD**). Υπάρχουν υδραυλικά λογισμικά που έχουν την δυνατότητα χαρακτηρισμού των καταναλώσεων ως PDD. Για τον χαρακτηρισμό της κατανάλωσης ως PDD απαιτούνταν να καθοριστούν:

- Το ποσοστό της κατανάλωσης που εξαρτάται από την πίεση,
- Η τιμή της πίεσης, πάνω από την οποία σταματά αυτήν η εξάρτηση.
- Ο εκθέτης της σχέσης εξάρτησης.

Πιστεύεται ότι η ζήτηση ενός κόμβου δεν επηρεάζεται από την πίεση εάν η τελευταία βρίσκεται πάνω από ένα όριο (**Wu and Walski, 2006**). Η ζήτηση στον κόμβο μειώνεται όταν η πίεση πέφτει κάτω από αυτό το όριο και μηδενίζεται όταν η πίεση επίσης μηδενίζεται.



ΠΟΡΕΙΑ ΥΛΟΠΟΙΗΣΗΣ ΜΟΝΤΕΛΟΥ (ΒΑΘΜΟΝΟΜΗΣΗ ΚΑΙ ΕΠΑΛΗΘΕΥΣΗ)

Μετά τη δημιουργία του μοντέλου ακολουθεί η προσπάθεια γεφύρωσης της αναντιστοιχίας των αποτελεσμάτων του μοντέλου με τις μετρήσεις πεδίου.

- Επιλέγονται χαρακτηριστικά σημεία καταγραφής της πίεσης λειτουργίας και μέτρησης της παροχής. Η καταγραφή γίνεται είτε μέσω Τοπικών Σταθμών Ελέγχου SCADA είτε μέσω κινητών μετρητικών.
- Στη συνέχεια εισάγονται τα δεδομένα των μετρήσεων στο υδραυλικό λογισμικό και ακολουθεί η βαθμονόμηση του μοντέλου (συνήθως) μέσω γενετικών αλγόριθμων. Καθορίζονται οι βέλτιστες τιμές για κάθε συνδυασμό των παραμέτρων του μοντέλου, όπως η τραχύτητα των αγωγών και οι καταναλώσεις των κόμβων ώστε να προσομοιάζουν καλύτερα την πραγματικότητα του δικτύου.
- Στο τέλος ακολουθεί η επαλήθευση του βαθμονομημένου μοντέλου.

Το μοντέλο πρέπει να βαθμονομείται κάθε μήνα για να αυξάνεται η λειτουργικότητα του. Αυτό γίνεται αυτόματα μέσω σύνδεσης του SCADA με το υδραυλικό λογισμικό



ΠΟΡΕΙΑ ΥΛΟΠΟΙΗΣΗΣ ΜΟΝΤΕΛΟΥ (ΕΝΔΕΙΚΤΙΚΕΣ ΑΠΕΙΚΟΝΙΣΕΙΣ)



ΔΙΑΜΟΡΦΩΣΗ ΖΩΝΩΝ ΠΙΕΣΗΣ ΚΑΙ ΣΤΕΓΑΝΩΝ ΥΠΟΖΩΝΩΝ (DMAS-DISTRICT METERED AREAS) ΔΙΚΤΥΩΝ ΥΔΡΕΥΣΗΣ

ΟΡΙΣΜΟΣ - ΧΡΗΣΙΜΟΤΗΤΑ

Η τεχνική της παρακολούθησης των διαρροών απαιτεί την εγκατάσταση παροχόμετρων σε στρατηγικά σημεία του δικτύου. Αυτό πραγματοποιείται με τις καταγραφές των μετρητών στις εισόδους διακρίτων περιοχών οι οποίες έχουν καθορισμένα και μόνιμα όρια, δηλαδή είναι υδραυλικά στεγανές. Αυτές οι υποζώνες ονομάζονται **DMAs (District Metered Areas)**.

Ο σχεδιασμός του συστήματος παρακολούθησης των διαρροών έχει δύο στόχους: (**UKWIR, A Manual of DMA Practice, 1999**)

- να διαιρέσει το δίκτυο διανομής σε τόσες DMAs, ώστε να είναι δυνατόν να παρακολουθείται και να καταγράφεται η νυχτερινή ροή σε τακτική βάση.
- να εφαρμόζεται διαχείριση της πίεσης σε κάθε **DMA** ή ομάδα DMAs, έτσι ώστε το σύνολο του δικτύου να λειτουργεί στο βέλτιστο επίπεδο πίεσης.

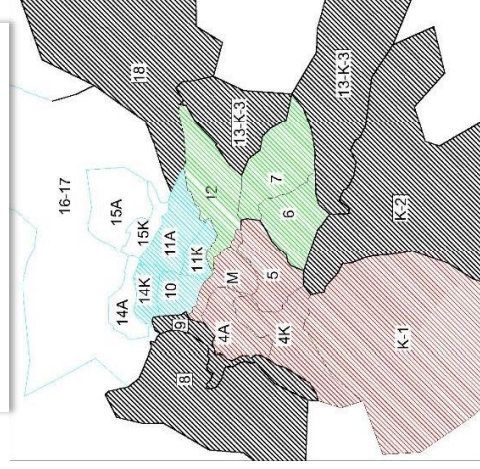
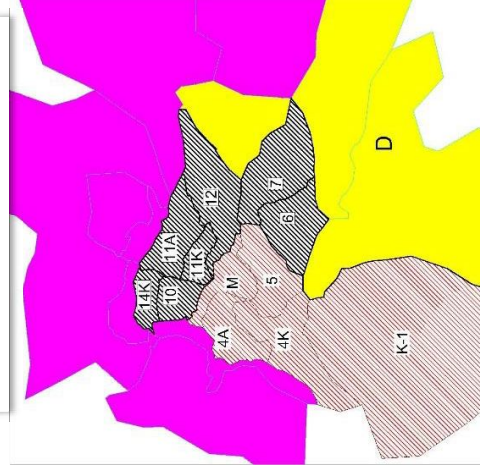
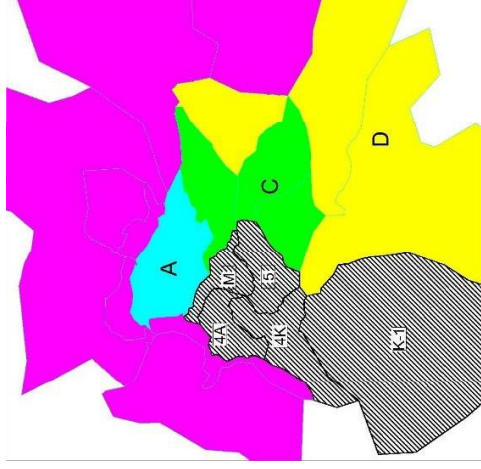
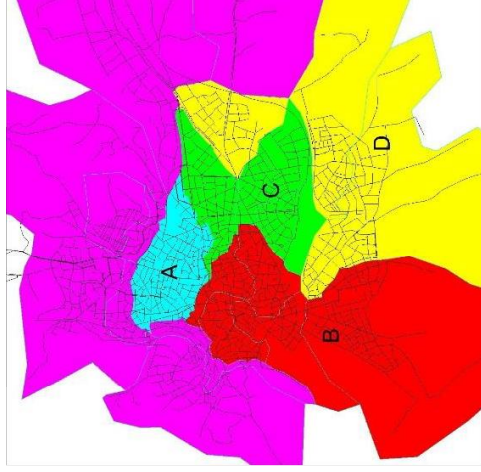


ΠΡΟΔΙΑΓΡΑΦΕΣ ΥΛΟΠΟΙΗΣΗΣ ΤΩΝ DMAs (2/2)

Το μέσο μέγεθος μιας DMA είναι γενικά μεταξύ **1000** και **3000** συνδέσεων. Το μέγεθος μιας DMA επηρεάζει το κόστος της υλοποίησης τους καθώς όσο μικρότερο είναι, τόσο ακριβότερα στοιχίζει η υλοποίηση, αλλά και τόσο μεγαλύτερα πλεονεκτήματα γεννιούνται όπως ότι οι νέες διαρροές εντοπίζονται νωρίτερα.

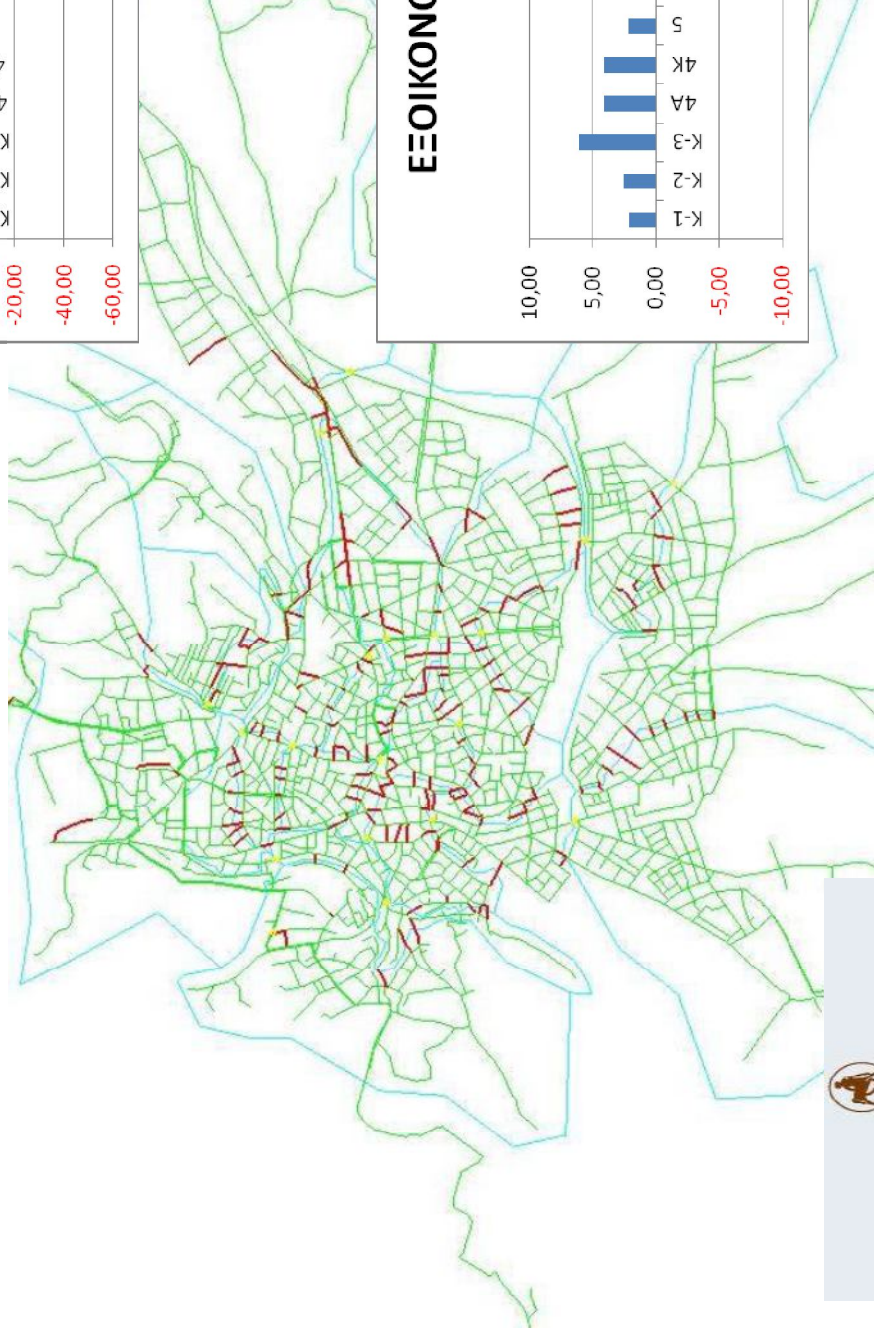
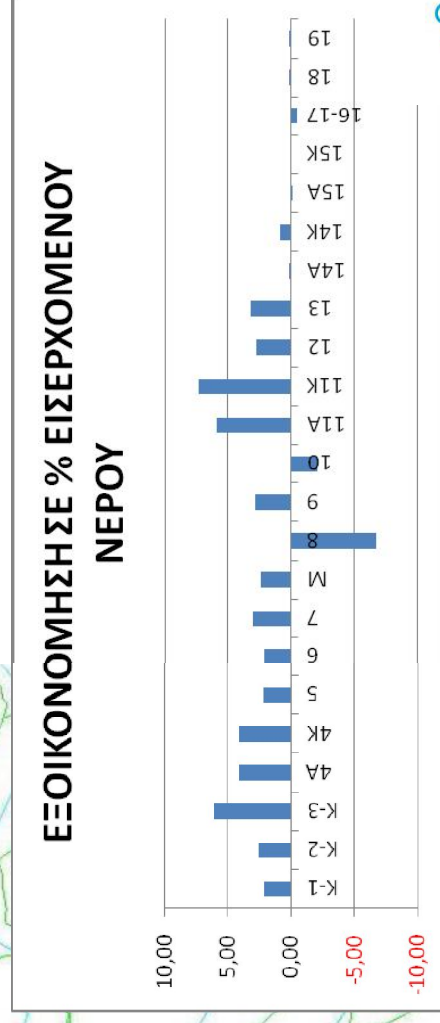
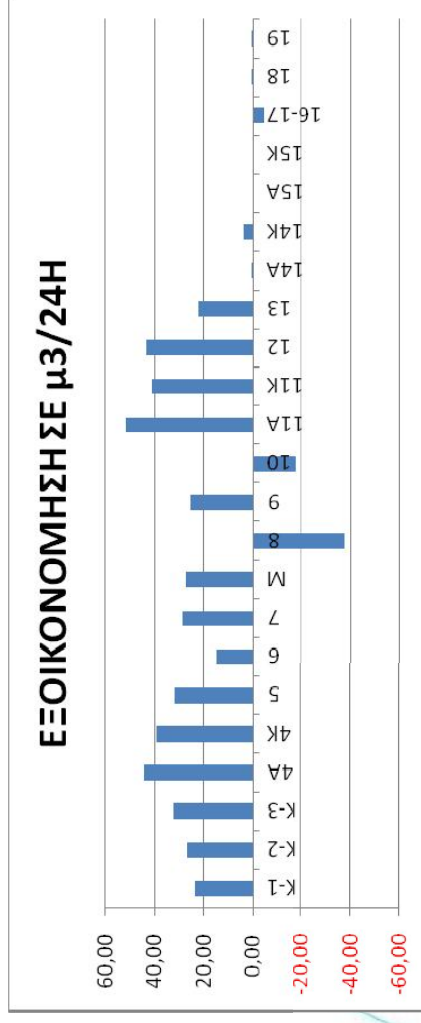
Θα πρέπει επίσης να λαμβάνεται υπόψη η υδραυλική αποδοτικότητα της προτεινόμενης υποζώνης, έτσι ώστε το κλείσιμο των βαλβίδων ορίων (οι βαλβίδες που εγκαθίστανται ή υπάρχουν ήδη στα όρια των DMAs και διασφαλίζουν την υδραυλική απομόνωση της περιοχής) να μην προκαλεί προβλήματα στα κρίσιμα σημεία που είναι οι θέσεις της χαμηλότερης πίεσης.

ΥΛΟΠΟΙΗΣΗ ΤΩΝ DMAS ΣΤΗΝ ΔΕΥΑ ΚΟΖΑΝΗΣ



ΥΛΟΠΟΙΗΣΗ ΤΩΝ DMAS ΣΤΗΝ ΔΕΥΑ ΚΟΖΑΝΗΣ (συμπεράσματα)

Το δίκτυο χωρίστηκε σε 24 DMAs. Η μείωση του εισερχόμενου νερού στο δίκτυο μειώθηκε κατά **2,22%**, και κατά **144.595 μ3/ετος** στο σύνολο του δικτύου.



ΔΙΑΧΕΙΡΙΣΗ ΤΗΣ ΠΙΕΣΗΣ ΜΕ ΤΗ ΧΡΗΣΗ ΜΕΙΩΤΩΝ ΠΙΕΣΗΣ (PRVS)

ΜΕΙΩΣΗ ΤΟΥ ΜΗ ΑΝΤΑΠΟΔΟΤΙΚΟΥ ΝΕΡΟΥ ΜΕΣΣΩ ΕΦΑΡΜΟΓΗΣ ΣΥΣΚΕΥΩΝ PRVS.

- Εφαρμόζονται συσκευές μείωσης της πίεσης (Pressure Reducing Valves-PRVs) στις βέλτιστες θέσεις των DMAs όπως προκύπτουν από δοκιμές στο μοντέλο με τη χρήση μεθόδων βελτιστοποίησης.
- Ο στόχος είναι η όσο το δυνατόν μεγαλύτερη μείωση της πίεσης στους κόμβους του μοντέλου με όριο τα **200 kPa** (2 atm περίπου) που είναι και η ελάχιστη απαιτούμενη πίεση με βάση την κείμενη νομοθεσία.
- Επειδή οι καταναλώσεις είναι εξαρτημένες από την πίεση, η πτώση της πίεσης οδηγεί σε μείωση του όγκου νερού των καταναλώσεων. Ο κάθε τύπος κατανάλωσης εξαρτάται σε διαφορετικό βαθμό από την πίεση.
- Η ενεργοποίηση των συσκευών επιδρά με διαφορετικό βαθμό στην εξοικονόμηση νερού του συστήματος, οπότε εξάγεται μια σειρά προτεραιότητας τοποθέτησης των συσκευών. Δηλαδή με οικονομοτεχνικά κριτήρια γνωρίζουμε ποια συσκευή και σε ποιο σημείο πρέπει να εγκαταστήσουμε πρώτα.



ΕΦΑΡΜΟΓΗ ΔΕΥΑ ΚΟΖΑΝΗΣ (οι θέσεις των PRVs στο δίκτυο)

Εφαρμόστηκαν οι 18 πιο αποδοτικές συσκευές μείωσης της πίεσης (Pressure Reducing Valves-PRVs) στις DMAs.



Συνολικά η υλοποίηση των DMAs και η εφαρμογή των PRVs συνέβαλε στην εξοικονόμηση **1.300.000** μ³ περίπου από τα **7.000.000** μ³ περίπου εισερχόμενου νερού στο δίκτυο της ΔΕΥΑΚ.



ΔΕΥΑΚ: ΕΓΚΑΤΑΣΤΑΣΗ PRVs – ΕΠΑΛΗΘΕΥΣΗ ΜΟΝΤΕΛΟΥ

Η ΔΕΥΑΚ προέβη πιλοτικά στην τοποθέτηση 2 PRVs για την εφαρμογή μείωσης της πίεσης λειτουργίας 2 επιλεγμένων υπό διαμόρφωση DMAs.

- ❖ Σε κάθε DMA κατασκευάστηκε σε υποδεικνυόμενο σημείο φρεάτιο κατάλληλων προδιαγραφών ώστε να χωράει εντός του κατάλληλη διάταξη που αφορά τον μειωτή πίεσης (PRV), το καταγραφικό της πίεσης, το καταγραφικό της παροχής, by pass κλπ.

- ❖ Στην συγκεκριμένη DMA τοποθετήθηκαν 2 καταγραφικά πίεσης, το πρώτο στην θέση της PRV και το δεύτερο στο κρίσιμο σημείο, το οποίο είναι το σημείο με την ελάχιστη πίεση της DMA.



Εικόνα. Οι διατάξεις που τοποθετήθηκαν στην πιλοτική DMA.

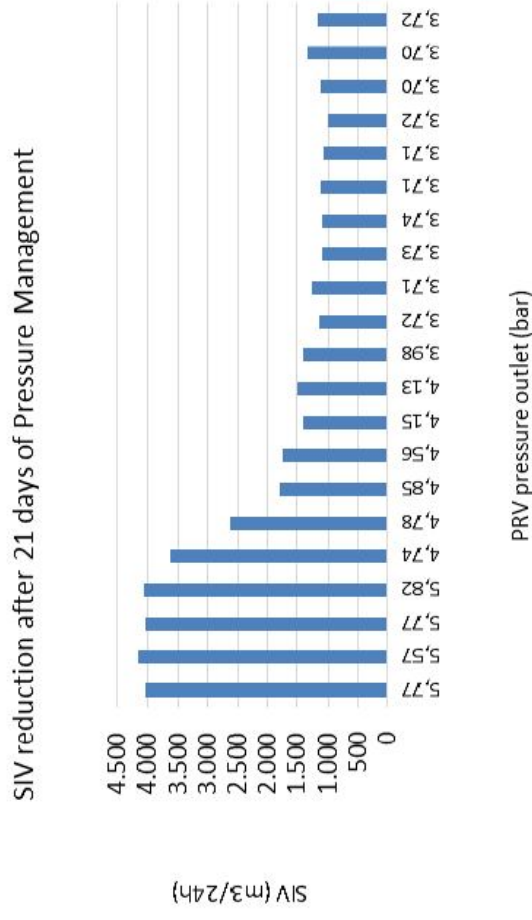
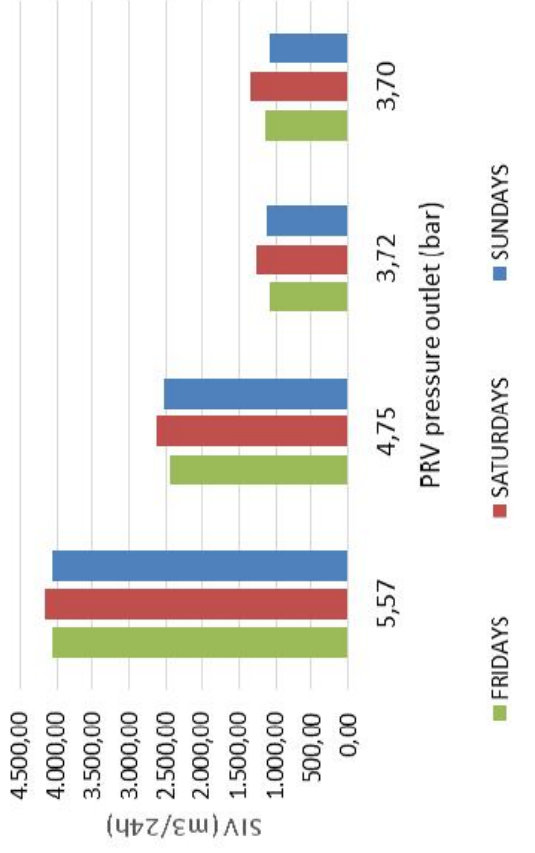
ΔΕΥΑΚ: ΕΓΚΑΤΑΣΤΑΣΗ PRVs – ΕΠΑΛΗΘΕΥΣΗ ΜΟΝΤΕΛΟΥ

- ❖ Στη συνέχεια ελέγχθηκαν οι βάνες αποκλεισμού/υλοποίησης των DMAs.
- ❖ Διενεργήθηκε έλεγχος μηδενικής πίεσης (Zero Pressure Test) όπου το βράδυ κοβόταν εντελώς η παροχή εισόδου για να γίνει αντιληπτό αν εισέρχεται νερό από κάποιον άλλο αγωγό.
- ❖ Στη συνέχεια η πίεση εισόδου μειώθηκε σταδιακά (ανά 2-3 ημέρες) από την PRV και καταγράφονταν η τιμή της στο σημείο εισόδου και στο κρίσιμο σημείο και ο εισερχόμενος όγκος νερού ανά 15 λεπτά.
- ❖ Ο έλεγχος συνεχίστηκε σε συνεννόηση με την υπηρεσία μέχρι την κατώτατη συμφωνημένη πίεση λειτουργίας στο κρίσιμο σημείο.



Εικόνα. Οι διατάξεις που τοποθετήθηκαν στην πιλοτική DMA.

ΔΕΥΑΚ: ΕΓΚΑΤΑΣΤΑΣΗ PRVs – ΕΠΑΛΗΘΕΥΣΗ ΜΟΝΤΕΛΟΥ



Η μέση μείωση του εισερχόμενου νερού ήταν 67,5%

Οι λόγοι της μεγάλης διαφοράς (ως προς θετικότερα αποτελέσματα) μεταξύ μοντέλου και πεδίου στην εξοικονόμηση εισερχόμενου νερού είναι:

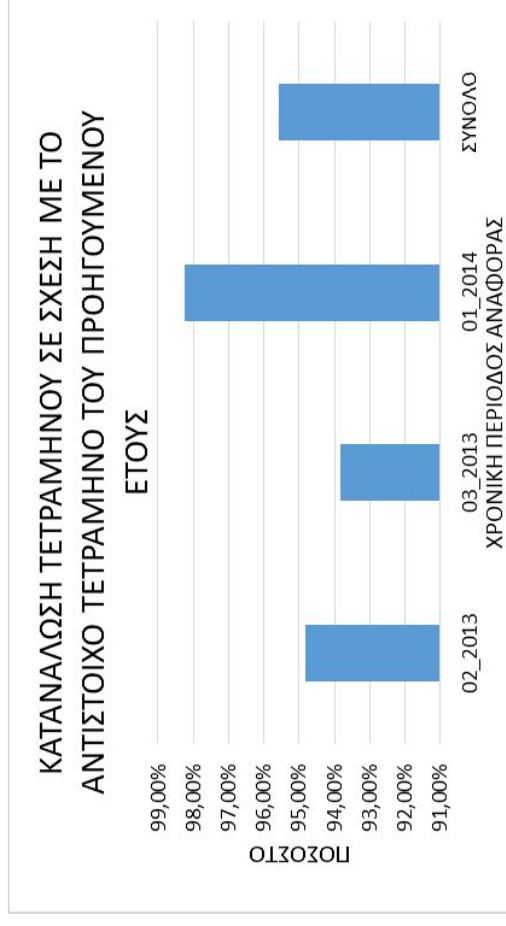
- Ο τύπος συσκευής που τοποθετήθηκε (μεταβλητής πίεσης σε συνάρτηση με την παροχή) δεν ήταν δυνατό να μοντελοποιηθεί. Οι PRVs του μοντέλου ήταν μεταβλητής πίεσης με προκαθορισμένο βήμα.
- Τα όρια της DMA που υλοποιήθηκε δεν συμπίπτουν με καμία από τις προτεινόμενες.
- Ορισμένοι συντελεστές του λογισμικού πρέπει να αναθεωρηθούν για να συμφωνούν με το πεδίο.

ΔΕΥΑΚ: ΕΓΚΑΤΑΣΤΑΣΗ PRVs – ΜΕΙΩΣΗ ΤΙΜΟΛΟΓΟΥΜΕΝΗΣ ΚΑΤΑΝΑΛΩΣΗΣ

Η PRV εγκαταστάθηκε και λειτούργησε τον Απρίλιο του 2013, οπότε απαιτούνταν να περάσει χρονικό διάστημα ενός έτους για να ελεγχθεί η μεταβολή της τιμολογούμενης κατανάλωσης.

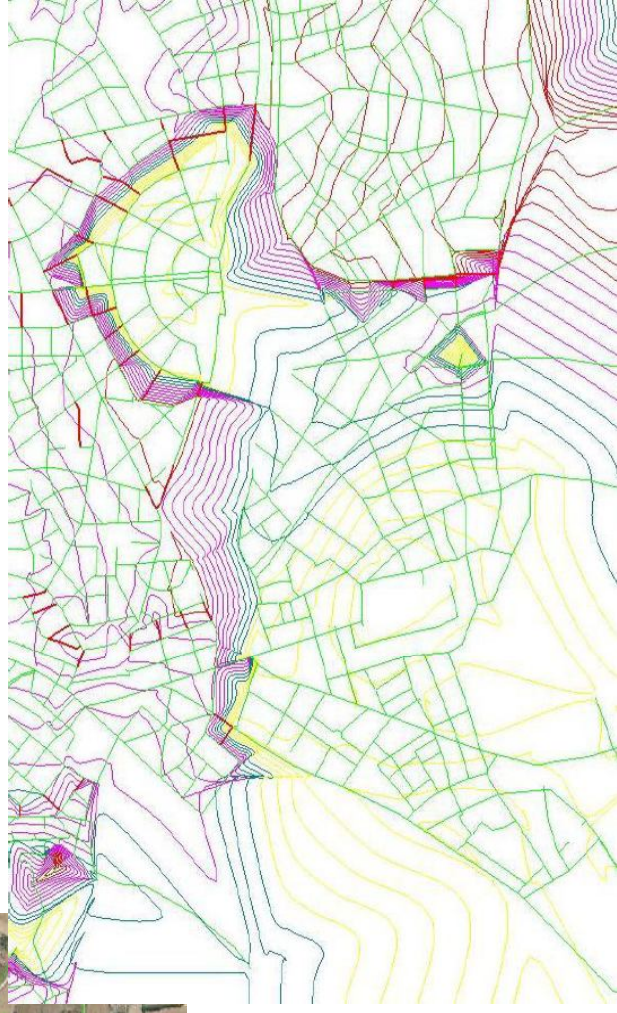
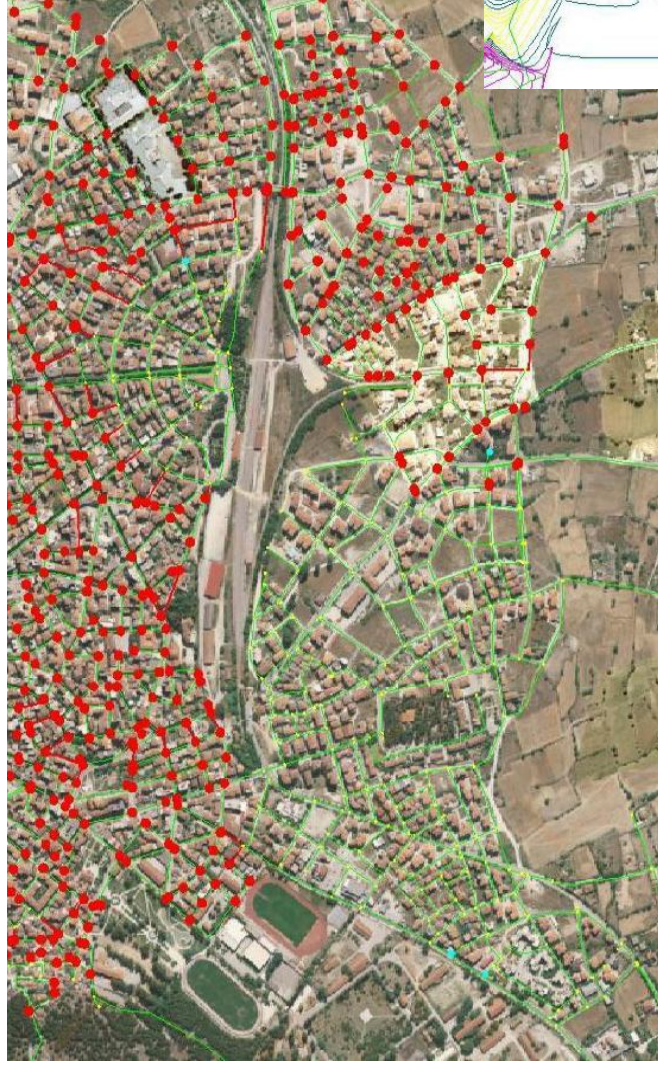
- Η ζώνη αποτελούνταν από **853** υδρόμετρα (ενεργά). Στον παρακάτω Πίνακα αναφέρονται οι καταγραφές των 853 υδρομέτρων για τα πρώτα 3 τετράμηνα μετά την λειτουργία της PRV (2^ο/2013, 3^ο/2013 και 1^ο/2014) και αντίστοιχα 3 τετράμηνα πριν την λειτουργία της.
- Στην παρακάτω Εικόνα αποτυπώνονται και γραφικά οι μεταβολές της κατανάλωσης.
- Σε σχέση με το όφελος της μείωσης του **SIV**, η μείωση των εσόδων της εταιρείας είναι ελάχιστη.

Τετράμηνα	Κατανάλωση (m ³)	Τετράμηνα	Κατανάλωση (m ³)	Διαφορά
02_2013	29.191	02_2012	30.789	-5,19%
03_2013	27.981	03_2012	29.817	-6,16%
01_2014	27.708	01_2013	28.202	-1,75%
ΣΥΝΟΛΟ	84.880	ΣΥΝΟΛΟ	88.808	-4,42%



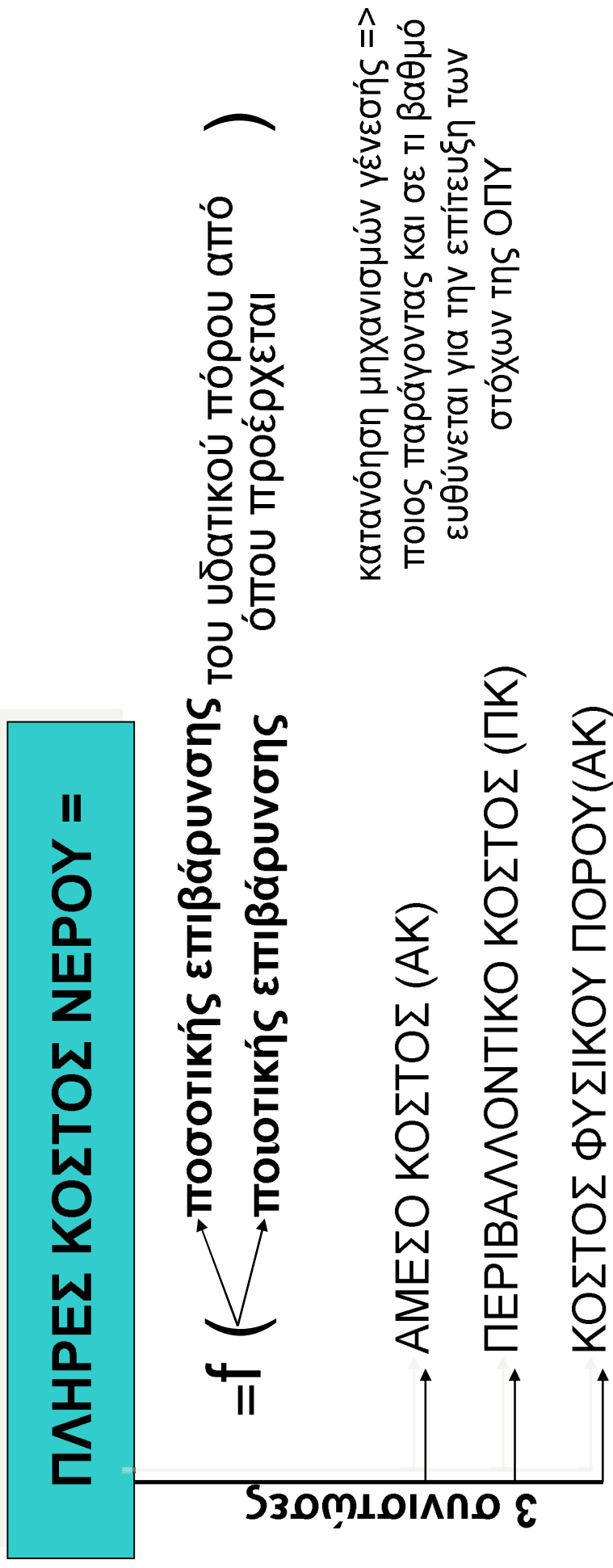
ΔΕΥΑΚ:

(ΕΝΔΕΙΚΤΙΚΕΣ ΑΠΕΙΚΟΝΙΣΕΙΣ ΜΕ ΛΕΙΤΟΥΡΓΙΑ 2 PRVs)



ΥΠΟΛΟΓΙΣΜΟΣ ΤΟΥ ΠΛΗΡΟΥΣ ΚΟΣΤΟΥΣ ΤΟΥ ΝΕΡΟΥ

ΟΙ ΣΥΝΙΣΤΩΣΕΣ ΤΟΥ ΠΛΗΡΟΥΣ ΚΟΣΤΟΥΣ ΤΟΥ ΝΕΡΟΥ



κατανόηση μηχανισμών γένεσής =>
ποιος παράγοντας και σε τι βαθμό
ευθύνεται για την επίτευξη των
στόχων της ΟΠΥ

- Δυναμικά /αλληλοεξαρτώμενα μεγέθη με διαφορετικά χαρακτηριστικά ανά εποχή, περιοχή, πυκνότητα πληθυσμού, οικονομική δραστηριότητα



ΣΥΝΕΠΕΙΕΣ ΤΗΣ ΠΛΗΡΟΥΣ ΚΟΣΤΟΛΟΓΗΣΗΣ

- Ο ορθός υπολογισμός των 3 συνιστωσών του κόστους του νερού, που σημαίνει πιθανά νέα κόστη αλλά και ανακατανομή των υφισταμένων. Συνεπάγεται επίσης την εύρεση του χρήστη που υποβαθμίζει ή υποβάθμιζε ποιοτικά ή/και ποσοτικά τον υδατικό πόρο.

Η πλήρης κοστολόγηση του νερού θα συμβάλλει:

- Στην πλήρη και δίκαιη τιμολόγηση του νερού.
- Στην εφαρμογή της αρχής «ο ρυπαίνων πληρώνει».

Ως κόστος νερού σήμερα θεωρούνται οι δαπάνες που πληρώνει μια εταιρία ύδρευσης για την παροχή νερού σε επαρκή ποσότητα και κατάλληλη ποιότητα στους πελάτες της. Οι δαπάνες αυτές είναι τα **Κόστη Λειτουργίας και Συντήρησης**, και τα **Κεφαλαιουχικά Κόστη**.



ΔΑΠΑΝΕΣ ΛΕΙΤΟΥΡΓΙΑΣ ΚΑΙ ΣΥΝΤΗΡΗΣΗΣ

Οι δαπάνες Λειτουργίας και Συντήρησης αναλύονται σε 11 υποδαπάνες, τις εξής:

ΟΜ01	ΚΟΣΤΟΣ ΕΡΓΑΣΙΩΝ ΠΡΟΣΩΠΙΚΟΥ ΑΝΑΓΡΑΦΕΤΑΙ ΤΟ ΣΥΝΟΛΙΚΟ ΚΟΣΤΟΣ ΠΡΟΣΩΠΙΚΟΥ ΤΗΣ ΔΕΥΑΚ (ΤΑΚΤΙΚΕΣ & ΕΚΤΑΚΤΕΣ ΜΗΝΙΑΙΕΣ ΑΜΟΙΒΕΣ)
ΟΜ02	ΕΝΕΡΓΕΙΑΚΟ ΚΟΣΤΟΣ ΑΝΑΓΡΑΦΕΤΑΙ Η ΕΝΕΡΓΕΙΑΚΗ ΚΑΤΑΝΑΛΩΣΗ
ΟΜ03	ΜΙΣΘΩΣΕΙΣ & ΕΝΟΙΚΙΑ ΑΝΑΓΡΑΦΕΤΑΙ ΤΟ ΜΗΝΙΑΙΟ ΚΟΣΤΟΣ ΤΗΣ ΕΤΑΙΡΙΑΣ ΓΙΑ ΜΙΣΘΩΣΕΙΣ ΚΑΙ ΕΝΟΙΚΙΑ
ΟΜ04	ΚΟΣΤΟΣ ΣΥΝΤΗΡΗΣΗΣ ΑΝΑΓΡΑΦΟΝΤΑΙ ΤΑ ΣΥΝΟΛΙΚΑ ΕΞΟΔΑ ΔΙΑΤΗΡΗΣΗΣ ΚΑΙ ΑΝΤΙΚΑΤΑΣΤΑΣΗΣ ΟΛΗΣ ΤΗΣ ΥΠΟΔΟΜΗΣ ΤΗΣ ΕΠΙΧΕΙΡΗΣΗΣ
ΟΜ05	ΚΟΣΤΟΣ ΑΝΑΛΩΣΙΜΩΝ ΠΕΡΙΛΑΜΒΑΝΕΤΑΙ ΤΟ ΚΟΣΤΟΣ ΑΠΟ ΤΗΝ ΠΡΟΜΗΘΕΙΑ ΑΝΑΛΩΣΙΜΩΝ ΚΑΙ ΤΟ ΚΟΣΤΟΣ ΓΙΑ ΤΗΝ ΠΡΟΜΗΘΕΙΑ Η ΑΝΑΝΕΩΣΗ ΤΩΝ ΑΔΕΙΩΝ ΧΡΗΣΕΩΝ ΛΟΓΙΣΜΙΚΟΥ Η/Υ Η ΑΥΤΟΜΑΤΙΣΜΟΥ
ΟΜ06	ΚΟΣΤΟΣ ΑΣΦΑΛΙΣΗΣ ΑΝΑΓΡΑΦΕΤΑΙ ΤΟ ΣΥΝΟΛΙΚΟ ΚΟΣΤΟΣ ΑΣΦΑΛΙΣΗΣ ΠΡΟΣΩΠΙΚΟΥ ΤΗΣ ΕΠΙΧΕΙΡΗΣΗΣ (ΤΑΚΤΙΚΑ ΚΑΙ ΕΚΤΑΚΤΑ ΚΟΣΤΗ) ΚΑΙ ΕΝΑΝΤΙ ΤΡΙΤΩΝ.
ΟΜ07	ΚΟΣΤΟΣ ΤΗΛΕΠΙΚΟΙΝΩΝΙΩΝ ΚΟΣΤΟΣ ΤΗΛΕΠΙΚΟΙΝΩΝΙΩΝ(ΑΝΑΦΕΡΕΤΑΙ ΣΤΟ ΣΥΝΟΛΟ ΤΟΥ ΚΟΣΤΟΥΣ ΑΠΟ ΤΗΝ ΠΑΡΟΧΗ ΚΑΙ ΤΗ ΧΡΗΣΗ ΤΗΛΕΠΙΚΟΙΝΩΝΙΑΚΩΝ ΥΠΗΡΕΣΙΩΝ, ΚΥΡΙΩΣ ΣΤΟΝ ΔΙΟΙΚΗΤΙΚΟ ΤΟΜΕΑ ΤΗΣ ΕΤΑΙΡΙΑΣ)
ΟΜ08	ΚΟΣΤΟΣ ΛΕΙΤΟΥΡΓΙΑΣ ΜΕΤΑΦΟΡΙΚΩΝ ΜΕΣΩΝ ΑΝΑΓΡΑΦΕΤΑΙ ΤΟ ΣΥΝΟΛΙΚΟ ΚΟΣΤΟΣ ΚΑΤΑΝΑΛΩΣΗΣ ΚΑΥΣΙΜΩΝ, ΑΣΦΑΛΙΣΗΣ, ΤΕΛΩΝ ΕΠΙΣΚΕΥΩΝ ΣΥΝΤΗΡΗΣΕΩΝ & ΑΠΟΣΒΕΣΕΩΝ ΦΟΡΤΗΓΩΝ & ΕΠΙΒΑΤΗΓΩΝ ΑΥΤΟΚΙΝΗΤΩΝ
ΟΜ09	ΚΟΣΤΟΣ ΦΟΡΟΛΟΓΙΑΣ ΑΝΑΓΡΑΦΟΝΤΑΙ ΟΙ ΦΟΡΟΙ ΠΟΥ ΠΛΗΡΩΝΕΙ ΣΤΟΝ ΔΗΜΟ Η ΣΤΟ ΚΕΝΤΡΙΚΟ ΚΡΑΤΟΣ, ΜΕΧΡΙ ΤΟ 2013 ΔΕΝ ΦΟΡΟΛΟΓΟΥΝΤΑΝ ΟΙ ΔΕΥΑ ΓΙΑ ΤΑ ΚΕΡΔΗ ΤΟΥΣ
ΟΜ10	ΚΟΣΤΟΣ ΧΡΗΜΑΤΟΠΙΣΤΩΤΙΚΟ ΑΝΑΓΡΑΦΟΝΤΑΙ ΤΟΚΟΙ ΔΑΝΕΙΩΝ, ΚΛΠ
ΟΜ11	ΚΟΣΤΟΣ ΔΙΟΙΚΗΣΗΣ (ΔΙΑΦΟΡΑ) ΤΑΣΕΙΑ, ΜΕΤΑΦΟΡΕΣ ΤΑΧΥΔΡ., ΠΡΟΒΟΛΗΣ, ΣΥΝΔΡΟΜΕΣ, ΕΞ. ΔΗΜΟΣΙΕΥΣΗΣ



ΚΕΦΑΛΑΙΟΥΧΙΚΑ ΚΟΣΤΗ

Τα Κεφαλαιουχικά Κόστη αναλύονται σε 3 υποδαπάνες, τις εξής:

ΚΚ01	ΝΕΕΣ ΕΠΕΝΔΥΣΕΙΣ
	ΑΝΑΓΡΑΦΟΝΤΑΙ ΕΞΟΔΑ ΓΙΑ ΝΕΕΣ ΕΠΕΝΔΥΣΕΙΣ ΚΑΙ ΣΧΕΤΙΚΑ ΚΟΣΤΗ (Π.Χ. ΠΡΟΕΤΟΙΜΑΣΙΑ ΠΕΔΙΟΥ, ΚΟΣΤΗ ΕΚΚΙΝΗΣΗΣ, ΝΟΜΙΚΑ ΕΞΟΔΑ).
ΚΚ02	ΑΠΟΣΒΕΣΕΙΣ
	ΑΝΑΓΡΑΦΟΝΤΑΙ ΤΑ ΒΑΣΙΚΑ ΣΤΟΙΧΕΙΑ ΚΑΙ ΥΠΟΛΟΙΠΖΕΤΑΙ Η ΑΞΙΑ ΑΠΟΣΒΕΣΗΣ ΓΙΑ ΤΟ ΣΥΓΚΕΚΡΙΜΕΝΟ ΕΤΟΣ
ΚΚ03	ΚΟΣΤΟΣ (ΕΥΚΑΙΡΙΑΣ) ΚΕΦΑΛΑΙΟΥ
	ΥΠΟΛΟΙΠΖΕΤΑΙ ΤΟ ΙΣΟΔΥΝΑΜΟ ΚΟΣΤΟΣ ΠΑΤΩΝ ΚΑΙ ΕΞΑΓΓΕΛΙΑΙ ΤΟ ΚΟΣΤΟΣ ΕΥΚΑΙΡΙΑΣ ΚΕΦΑΛΑΙΟΥ ΛΟΓΩ ΚΑΛΥΠΤΕΡΗΣ ΑΠΟΔΟΣΗΣ ΕΠΕΝΔΥΣΗΣ



Η ΤΜΗΜΑΤΟΠΟΙΗΣΗ ΤΟΥ ΚΥΚΛΟΥ ΕΡΓΑΣΙΩΝ ΤΟΥ ΑΣΤΙΚΟΥ ΝΕΡΟΥ

Ο συνολικός κύκλος εργασιών των εταιρειών ύδρευσης χωρίζεται σε 7 διαδικασίες.

1	ΥΔΡΟΛΗΨΙΑ
2	ΜΕΤΑΦΟΡΑ
3	ΕΠΕΞΕΡΓΑΣΙΑ
4	ΑΠΟΘΗΚΕΥΣΗ
5	ΔΙΑΝΟΜΗ
6	ΑΠΟΧΕΤΕΥΣΗ
7	ΔΙΟΙΚΗΣΗ



ΠΑΡΑΔΕΙΓΜΑ ΔΕΥΑΚ: ΠΕΡΑΙΤΕΡΩ ΤΜΗΜΑΤΟΠΟΙΗΣΗ ΤΩΝ 7 ΔΙΕΡΓΑΣΙΩΝ ΤΟΥ ΑΣΤΙΚΟΥ ΝΕΡΟΥ

Οι 5 από τις 7 διεργασίες χωρίστηκαν σε μικρότερα τμήματα

ΥΑΡΟΛΗΨΙΑ	
(α)	ΓΕΩΤΡΗΣΕΙΣ ΒΑΘΥΛΑΚΚΟΥ
(β)	ΓΕΩΤ/ΣΕΙΣ ΣΑΡΙΓΚΙΟΛ
(γ)	ΠΗΓΕΣ ΕΡΜΑΚΙΑΣ

ΜΕΤΑΦΟΡΑ	
(α)	ΥΔΡ/ΓΕΙΟ ΑΠΟ ΒΑΘΥΛΑΚΚΟ
(β)	ΥΔΡ/ΓΕΙΟ ΑΠΟ ΣΑΡΙΓΚΙΟΛ
(γ)	ΥΔΡ/ΓΕΙΟ ΠΗΓΩΝ ΕΡΜΑΚΙΑΣ

ΕΠΕΞΕΡΓΑΣΙΑ	
(α)	ΔΕΞ. ΑΓ. ΠΑΡΑΣΚΕΥΗΣ
(β)	ΔΕΞ. 9000
(γ)	3 ΔΕΞΑΜΕΝΕΣ
(δ)	ΛΟΙΠΕΣ ΔΕΞΑΜΕΝΕΣ

ΑΠΟΘΗΚΕΥΣΗ	
(α)	ΔΕΞ. ΑΓ. ΠΑΡΑΣΚΕΥΗΣ
(β)	ΔΕΞ. 9000
(γ)	3 ΔΕΞΑΜΕΝΕΣ
(δ)	ΛΟΙΠΕΣ ΔΕΞΑΜΕΝΕΣ

ΔΙΑΝΟΜΗ	
(α)	PVC + HDPE
(β)	AC
(γ)	STEEL
(δ)	ΛΟΙΠΑ



ΠΑΡΑΔΕΙΓΜΑ ΔΕΥΑΚ: ΔΗΜΙΟΥΡΓΙΑ ΜΗΤΡΩΟΥ

Δημιουργείται ένα μητρώο με:

- 20 X 14 = 280 στοιχεία μηνιαίως
- και 280 X 12 = 3.360 στοιχεία ετησίως

	ΟΜ01	ΟΜ02	ΟΜ03	ΟΜ04	ΟΜ05	ΟΜ06	ΟΜ07	ΟΜ08	ΟΜ09	ΟΜ010	ΟΜ011	ΚΚ01	ΚΚ02	ΚΚ03
ΥΔΡΟΛΗΨΙΑ	€	€	€	€	€	€	€	€	€	€	€	€	€	€
	€	€	€	€	€	€	€	€	€	€	€	€	€	€
	€	€	€	€	€	€	€	€	€	€	€	€	€	€
ΜΕΤΑΦΟΡΑ	€	€	€	€	€	€	€	€	€	€	€	€	€	€
	€	€	€	€	€	€	€	€	€	€	€	€	€	€
	€	€	€	€	€	€	€	€	€	€	€	€	€	€
ΕΠΕΞΕΡΓΑΣΙΑ	€	€	€	€	€	€	€	€	€	€	€	€	€	€
	€	€	€	€	€	€	€	€	€	€	€	€	€	€
	€	€	€	€	€	€	€	€	€	€	€	€	€	€
ΕΠΕΞΕΡΓΑΣΙΑ	€	€	€	€	€	€	€	€	€	€	€	€	€	€
	€	€	€	€	€	€	€	€	€	€	€	€	€	€
	€	€	€	€	€	€	€	€	€	€	€	€	€	€
ΑΠΟΘΗΚΕΥΣΗ	€	€	€	€	€	€	€	€	€	€	€	€	€	€
	€	€	€	€	€	€	€	€	€	€	€	€	€	€
	€	€	€	€	€	€	€	€	€	€	€	€	€	€
ΔΙΑΝΟΜΗ	€	€	€	€	€	€	€	€	€	€	€	€	€	€
	€	€	€	€	€	€	€	€	€	€	€	€	€	€
	€	€	€	€	€	€	€	€	€	€	€	€	€	€
ΑΠΟΧΕΤΕΥΣΗ	€	€	€	€	€	€	€	€	€	€	€	€	€	€
	€	€	€	€	€	€	€	€	€	€	€	€	€	€
	€	€	€	€	€	€	€	€	€	€	€	€	€	€

☐ Κάθε ένα από τα 3.360 στοιχεία δύναται να αποτελεί ΑΚ, ΠΚ ή/και ΚΦΠ.

☐ Ετήσια μεταβλητότητα



ΠΑΡΑΔΕΙΓΜΑ ΔΕΥΑΚ: ΥΠΟΛΟΓΙΣΜΟΣ ΤΩΝ ΑΚ, ΚΦΠ ΚΑΙ ΠΚ ΚΑΘΕ ΤΜΗΜΑΤΟΣ ΤΟΥ ΜΗΤΡΩΟΥ

Η νέα πηγή υδροληψίας (γεωτρ. Βαθυλάκκου) έχει πολύ ακριβότερο κόστος τροφοδοσίας σε σχέση με την παλιά (γεωτρ. Σαριγκιόλ) και η αναζήτηση της δεν έγινε λόγω έλλειψης νερού. Επομένως:

- Το ποσό που ισοδυναμεί με το κόστος ενέργειας τροφοδοσίας από τις γεωτρήσεις Σαριγκιόλ αντιστοιχεί σε ΑΚ, ενώ
- Το ποσό που υπολείπεται μέχρι το κόστος ενέργειας τροφοδοσίας από τις γεωτρήσεις Βαθυλάκκου αντιστοιχεί σε ΚΦΠ

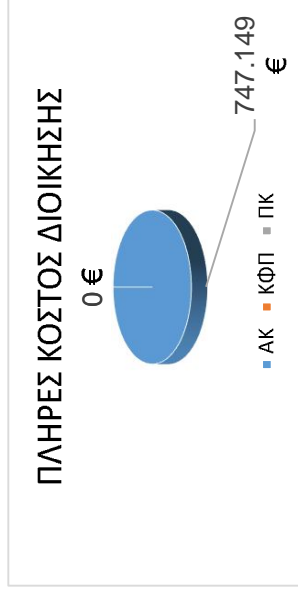
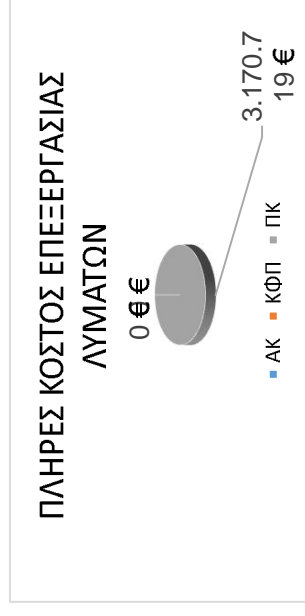
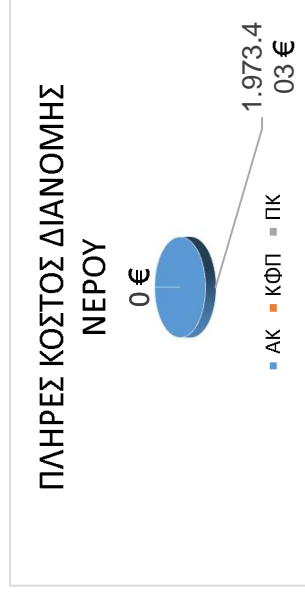
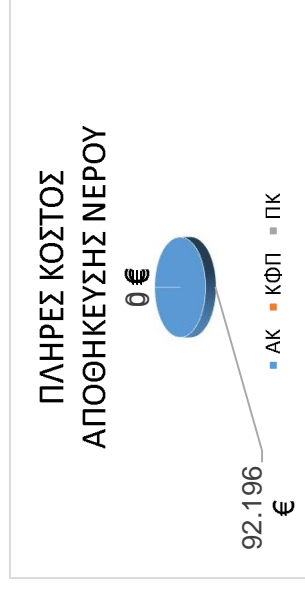
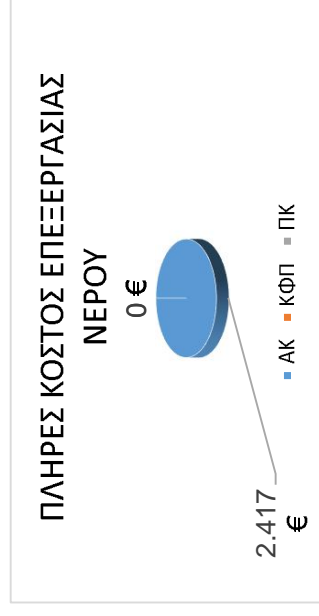
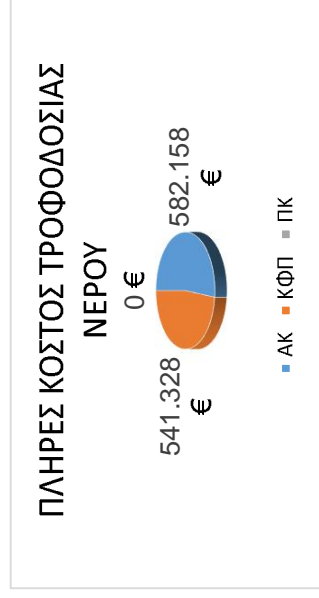
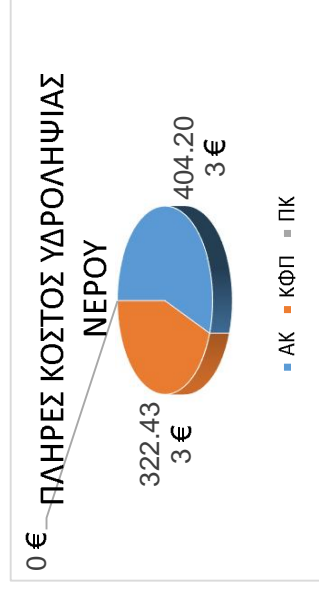
		ΤΡΟΦΟΔΟΣΙΑ			ΚΦΠ	ΠΚ
		ΒΑΘΥΛΑΚ	ΣΑΡΙΓΚ.	ΕΡΜΙΑΚΙΑ		
ΟΜ01	ΚΟΣΤΟΣ ΕΡΓΑΣΙΩΝ ΠΡΟΣΩΠΙΚΟΥ	143.296,91 €	0,00 €	20.893,19 €	0,00 €	0,00 €
ΟΜ02	ΕΝΕΡΓΗΤΙΚΟ ΚΟΣΤΟΣ	468.788,75 €	154.700,29 €	0,00 €	314.088,46 €	0,00 €
ΟΜ03	ΜΙΣΘΩΣΕΙΣ & ΕΝΟΙΚΙΑ	0,00 €	0,00 €	0,00 €	0,00 €	0,00 €
ΟΜ04	ΚΟΣΤΟΣ ΣΥΝΤΗΡΗΣΗΣ	59.581,21 €	0,00 €	3.135,85 €	0,00 €	0,00 €
ΟΜ05	ΚΟΣΤΟΣ ΑΝΑΛΑΣΣΙΜΩΝ	0,00 €	0,00 €	0,00 €	0,00 €	0,00 €
ΟΜ06	ΚΟΣΤΟΣ ΑΣΦΑΛΙΣΗΣ	35.895,54 €	0,00 €	5.233,70 €	0,00 €	0,00 €
ΟΜ07	ΚΟΣΤΟΣ ΤΗΛΕΠΙΚΟΙΝΩΝΙΩΝ	1.735,32 €	0,00 €	253,02 €	0,00 €	0,00 €
ΟΜ08	ΚΟΣΤΟΣ ΛΕΙΤΟΥΡΓΙΑΣ ΜΕΤΑΦΟΡΙΚΩΝ ΜΕΣΩΝ	28.923,76 €	19.282,50 €	4.217,18 €	9.641,25 €	0,00 €
ΟΜ09	ΚΟΣΤΟΣ ΦΟΡΟΛΟΓΙΑΣ	0,00 €	0,00 €	0,00 €	0,00 €	0,00 €
ΟΜ10	ΚΟΣΤΟΣ ΧΡΗΜΑΤΟΠΙΣΤΩΤΙΚΟ	34.456,65 €	19.761,08 €	1.447,29 €	34.456,65 €	0,00 €
ΟΜ11	ΚΟΣΤΟΣ ΔΙΟΚΗΣΗΣ (ΔΙΑΦΟΡΑ)	0,00 €	0,00 €	0,00 €	0,00 €	0,00 €
ΚΚ01	ΝΕΕΣ ΕΠΕΝΔΥΣΕΙΣ	0,00 €	0,00 €	0,00 €	0,00 €	0,00 €
ΚΚ02	ΑΠΟΣΒΕΣΕΙΣ	182.339,45 €	104.572,70 €	7.658,85 €	182.339,45 €	0,00 €
ΚΚ03	ΚΟΣΤΟΣ (ΕΥΚΑΙΡΙΑΣ) ΚΕΦΑΛΑΙΟΥ	802,00 €	459,95 €	33,69 €	802,00 €	0,00 €
		955.819,58 €	124.793,73 €	42.872,76 €	541.327,81 €	0,00 €

Παράδειγμα
Τροφοδοσίας
νερού

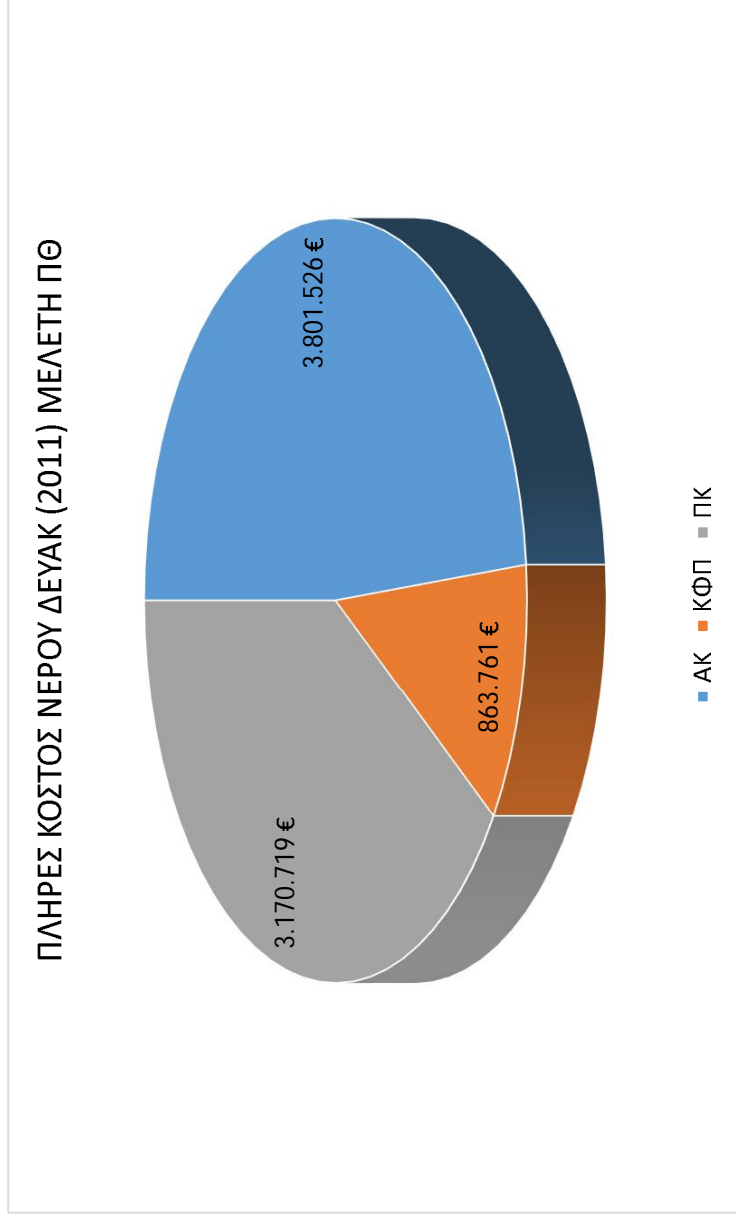


ΠΑΡΑΔΕΙΓΜΑ ΔΕΥΑΚ: ΕΥΡΕΣΗ ΤΟΥ ΠΛΗΡΟΥΣ ΚΟΣΤΟΥΣ ΞΕΧΩΡΙΣΤΑ ΤΩΝ 7 ΔΙΕΡΓΑΣΙΩΝ

Το Πλήρες Κόστος των 7 διαδικασιών του νερού της ΔΕΥΑΚ



ΠΑΡΑΔΕΙΓΜΑ ΔΕΥΑΚ: ΕΥΡΕΣΗ ΠΛΗΡΟΥΣ ΚΟΣΤΟΥΣ ΤΟΥ ΝΕΡΟΥ



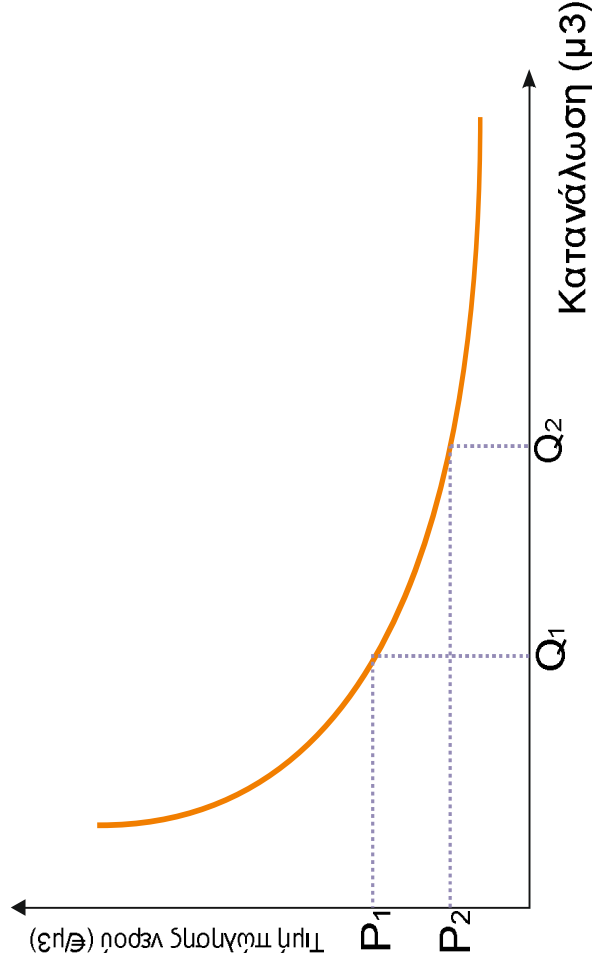
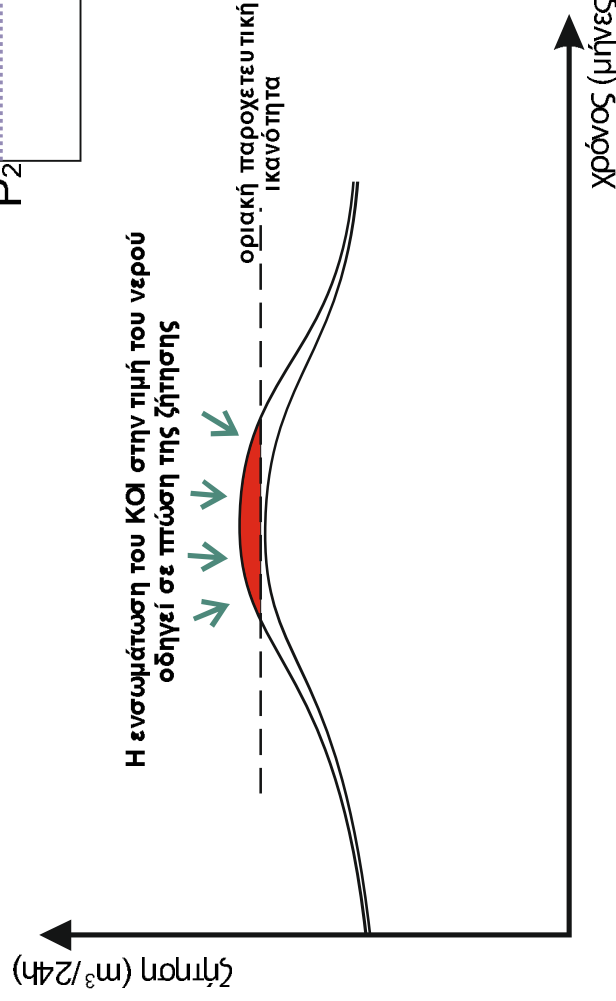
- Το Πλήρες Κόστος Νερού της ΔΕΥΑΚ για το 2011 ανέρχεται στα **7.836.006€**.
- Το ΚΦΠ της ΔΕΥΑΚ για το 2011 ανέρχεται στα **863.761€** και δεν το δημιούργησε η επιχείρηση. Υπεύθυνες είναι οι δραστηριότητες της ΔΕΗ.



ΕΥΡΕΣΗ ΤΗΣ ΕΛΑΣΤΙΚΟΤΗΤΑΣ ΤΗΣ ΚΑΤΑΝΑΛΩΣΗΣ ΣΕ ΣΧΕΣΗ ΜΕ ΤΗΝ ΜΕΤΑΒΟΛΗ ΤΗΣ ΤΙΜΗΣ ΤΟΥ ΝΕΡΟΥ

ΕΛΑΣΤΙΚΟΤΗΤΑ ΤΗΣ ΚΑΤΑΝΑΛΩΣΗΣ ΣΕ ΣΧΕΣΗ ΜΕ ΤΗΝ ΜΕΤΑΒΟΛΗ ΤΗΣ ΤΙΜΗΣ ΤΟΥ ΝΕΡΟΥ

Για να υπολογίζεται η συμπεριφορά των καταναλωτών στις μεταβολές της τιμής του νερού, πρέπει να είναι γνωστή η καμπύλη ζήτησης του νερού σε σχέση με την τιμή πώλησης του.



Σε οριακές συνθήκες εμπορικής αύξησης της κατανάλωσης είναι προτιμότερο πολλές φορές να μειώνουμε την κατανάλωση ώστε να μην απαιτείται νέα επέκταση της τροφοδοτικής ικανότητας.



...οι μεταβλητές που «εξηγούν» την κατανάλωση του νερού

Η κατανάλωση νερού από το νοικοκυριό είναι συνάρτηση των παρακάτω μεταβλητών:

☐ Μέση τιμή του νερού

☐ Οριακές τιμές στα μπλοκ κατανάλωσης

☐ Καιρικές συνθήκες (θερμοκρασία, ύψος βροχής, ένταση αέρα κλπ)

☐ Εισόδημα καταναλωτών

☐ Λοιπές επεξηγηματικές μεταβλητές (μέγεθος νοικοκυριού, αριθμός ηλικιωμένων στο νοικοκυριό, αριθμός WC, εξωτερική χρήση νερού, μέγεθος κήπου, ηλικία κτίσματος κλπ)

ΔΕΔΟΜΕΝΑ
ΑΠΟ ΔΕΥΑ

ΔΕΔΟΜΕΝΑ
ΑΠΟ ΕΜΥ

ΜΙΚΡΟΔΕΔΟΜΕΝΑ ΑΠΟ
ΕΡΕΥΝΑ
ΕΡΩΤΗΜΑΤΟΛΟΓΙΩΝ Ή
ΣΥΓΚΕΝΤΡΩΤΙΚΑ
ΔΕΔΟΜΕΝΑ ΑΠΟ
ΕΛΣΤΑΤ

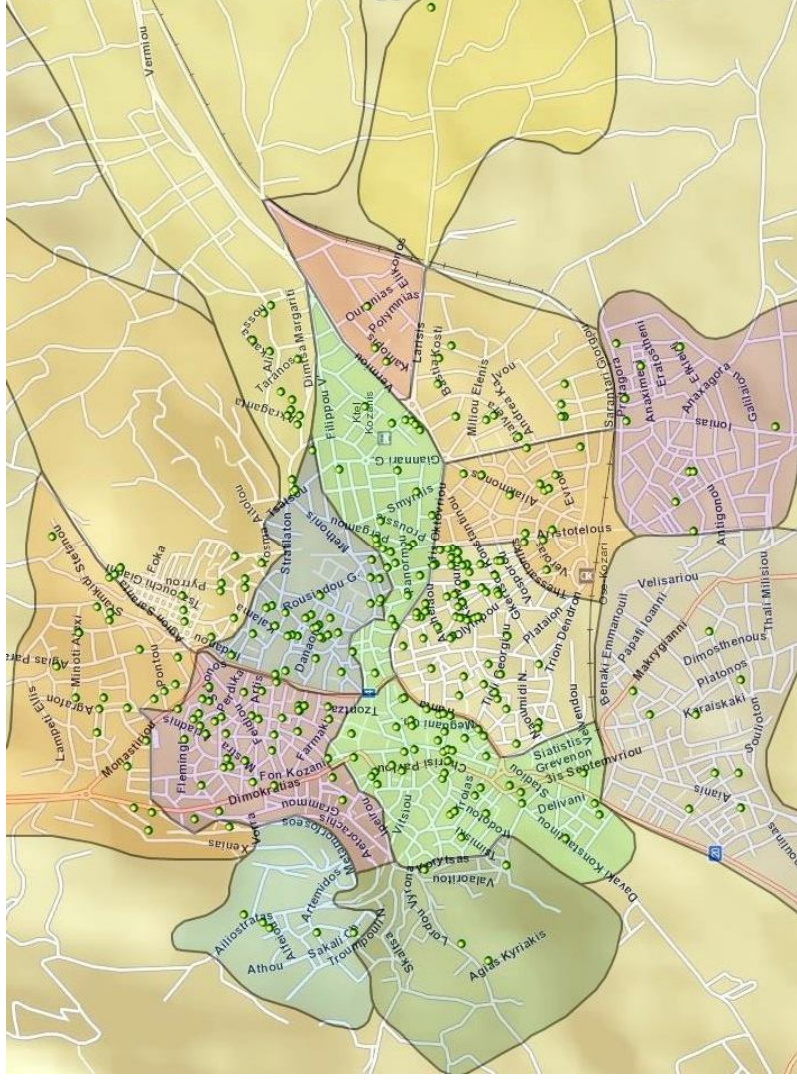


ΕΦΑΡΜΟΓΗ ΔΕΥΑΚ: Η ΕΠΙΛΟΓΗ ΤΟΥ ΔΕΙΓΜΑΤΟΣ

Επιλέχτηκαν 305 αντιπροσωπευτικά νοικοκυριά από την πόλη της Κοζάνης με γνώμονα:

- Την χωρική διασπορά
- Την όσο το δυνατόν συνεχή κατανάλωση μεταξύ 2005 και 2012 (24 τετράμηνα)

Τα νοικοκυριά αυτά απάντησαν στην έρευνα ερωτηματολογίων που έγινε κατά τον Ιούλιο του 2013, με σκοπό να εξαχθούν συμπεράσματα για τις λοιπές επεξηγηματικές μεταβλητές



ΕΦΑΡΜΟΓΗ ΔΕΥΑΚ: όλες οι μεταβλητές με τις μέσες και ακρότατες τιμές τους

Περιγραφή μεταβλητών	Obs	Mean	Min	Max
Κατανάλωση νερού ανά νοικοκυριό (m ³) ανά τετράμηνιο	6869	39,706	1,000	281,000
Μέση τιμή νερού συμπεριλαμβανομένου του παγίου (€/m ³)	6869	1,267	0,104	18,578
Οριακή τιμή νερού (€/m ³)	6869	1,372	0,747	18,578
Nordin's D (Διαφορά σε € ανά λογαριασμό)	6869	6,801	0,000	454,456
Cloud (Μέση συνολική νέφωση ανά τετράμηνιο)	7248	0,494	0,300	0,670
Wind (Μέση ένταση ανέμου ανά τετράμηνιο σε κόμβους)	7248	2,592	0,527	5,381
T (Μέση θερμοκρασία ανά τετράμηνιο σε °C)	7248	13,864	5,527	24,037
Rain (Μέσο ύψος βροχόπτωσης ανά τετράμηνιο σε mm)	7248	4,987	2,667	11,058
RH (Μέση σχετική υγρασία ανά τετράμηνιο σε %)	7248	64,254	43,416	76,473
EDU1 (πρωτοβάθμια εκπαίδευση)	7248	0,136	0	1
EDU2 (δευτεροβάθμια εκπαίδευση)	7248	0,434	0	1
EDU3 (τριτοβάθμια εκπαίδευση)	7248	0,430	0	1
FAM (αριθμός μελών οικογένειας)	7248	2,937	1	7
REV (εισόδημα νοικοκυριού)	7248	1,467	0	3
MAIS (μονοκατοικία ή διαμέρισμα)	7248	0,795	0	1
RENT (ιδιόκτητο ή ενοικιαζόμενο)	7248	0,838	0	1
FLO (όρφος κατοικίας)	7248	1,679	0	5
M2 (μέγεθος κατοικίας σε m ²)	7248	87,846	25,00	200,00
WC (αριθμός μπάνιων)	7248	1,192	1	3
AGE (ηλικία κτηρίου)	7248	1,321	0	3
OUT1 (χρήση νερού για κήπο, πλύσιμο αυτοκινήτου ή πεζοδρομίου)	7248	0,199	0	1
WASHMACH (συνολικά χρήσης)	7248	2,536	1	5

εξαρτημένη μεταβλητή

μεταβλητές της τιμής του νερού

κλιματικές μεταβλητές

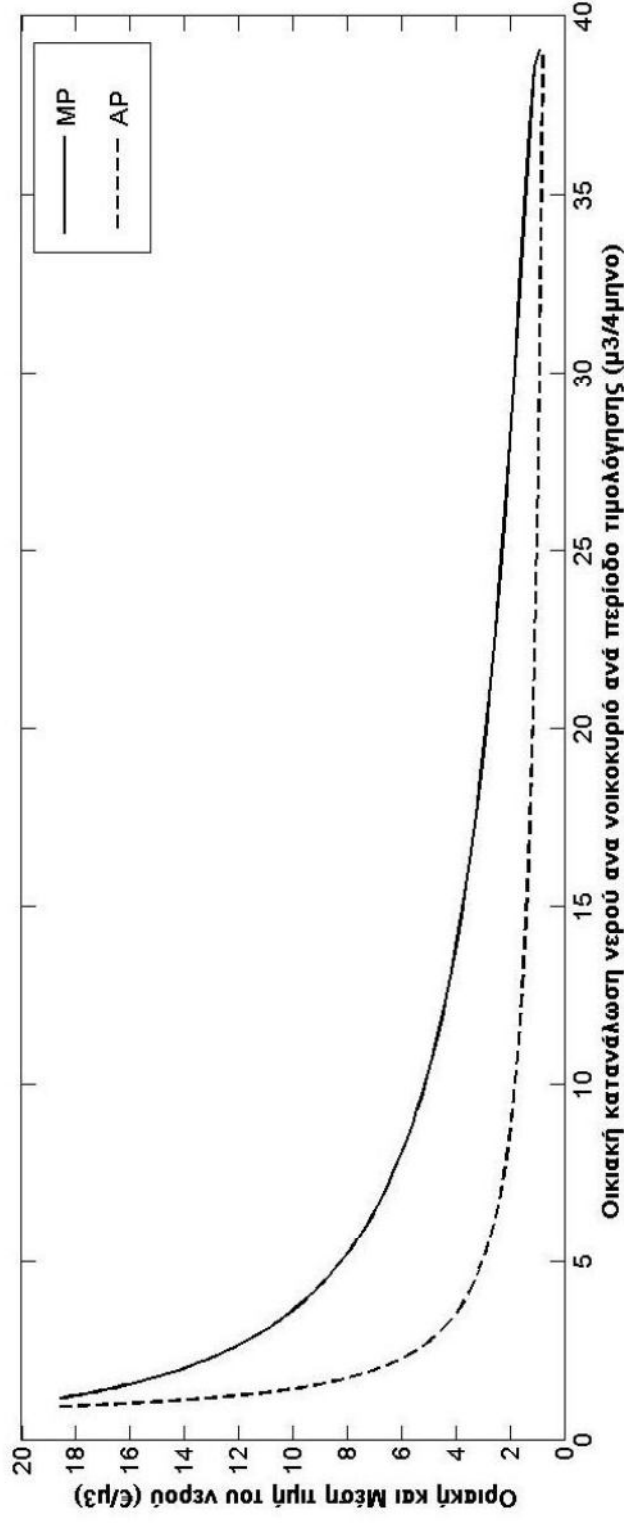
Λοιπές επεξηγηματικές μεταβλητές



ΕΦΑΡΜΟΓΗ ΔΕΥΑΚ: οι τελικές εξισώσεις και η μορφή της καμπύλης

$$\ln Q = 0.2 * (\ln AP)^2 - 1.71 * \ln AP + 3.37$$

$$\ln Q = -0.3 * (\ln MP)^2 + 0.11 * (\ln D)^2 - 1.55 * \ln MP - 0.03 * \ln D + 3.34$$



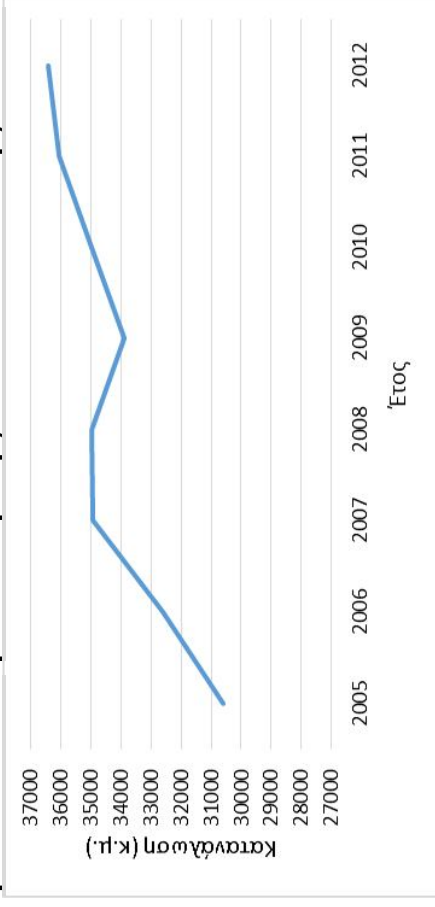
ΕΦΑΡΜΟΓΗ ΔΕΥΑΚ: η τιμή της ελαστικότητας

Η κατανάλωση του νερού της ΔΕΥΑΚ κρίνεται ελαστική σε σχέση με την τιμή (στα σημερινά επίπεδα) αφού είναι $-1.0 > \varepsilon$.

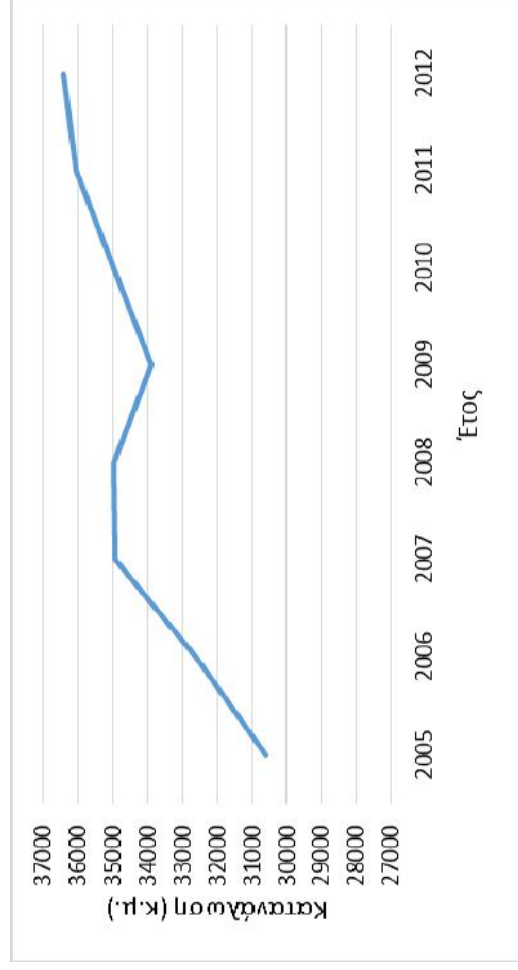
	OLS	LSDV
Οριακή Τιμή (MP)	-1.334	-1.468
Μέση τιμή (AP)	-1.590	-1.494

μια αύξηση κατά 1% της οριακής τιμής του νερού σε σχέση με τα σημερινά επίπεδα θα προκαλέσει μείωση της κατανάλωσης κατά **1,47%**, ενώ

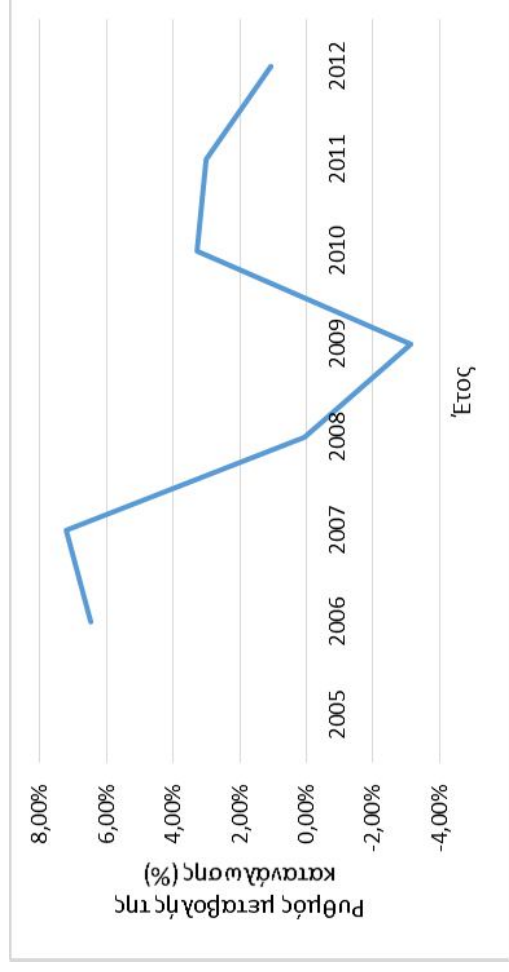
μια αύξηση κατά 1% της μέσης τιμής του νερού σε σχέση με τα σημερινά επίπεδα θα προκαλέσει μείωση της κατανάλωσης κατά **1,49%**.



ΕΦΑΡΜΟΓΗ ΔΕΥΑΚ: αιτιολόγηση του βαθμού ελαστικότητας της ζήτησης



Η κατανάλωση των 302 νοικοκυριών μεταξύ 2005-2012.



Ο ρυθμός μεταβολής της κατανάλωσης των 302 νοικοκυριών μεταξύ 2006-2012.

Στις αρχές του έτους 2008 πραγματοποιήθηκε αύξηση του τιμολογίου σε όλες τις κλίμακες.

- Στην δεξιά Εικόνα εμφανίζεται ο ρυθμός μεταβολής της κατανάλωσης των 302 νοικοκυριών. Εκτός των ετών 2008 και 2009 που είναι το έτος εφαρμογής και το αμέσως επόμενο της αύξησης του τιμολογίου, όπου η κατανάλωση μειώθηκε, σε όλα τα άλλα έτη η κατανάλωση αυξανόταν.
- Ο ρυθμός της όμως μετά την μέγιστη τιμή του 2007 (7,23%), το τελευταίο έτος πριν την έναρξη της οικονομικής κρίσης, συνεχώς μειωνόταν για να φτάσει στο τελευταίο έτος της μελέτης το 2012 να ισούται με 1,08%.



Ευχαριστώ!!

Ομάδα Πανεπιστημίου Θεσσαλίας

Συντονιστής: Αναπλ. Καθ. Βασίλης Κανακούδης
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Αλεξάνδρα Ρουβά (Τοπικός Συντονιστής)
Ιωάννα Χυτήρη (Βοηθός Τοπικού Συντονιστή)

Αλέξανδρος Πρίγκος (Financial Auditor)
Ιφιγένεια Αργυριάδου (Τεχνική Υποστήριξη)
Ευμορφία Δροσίτη (Τεχνική Υποστήριξη)

Κέρκυρα, 21 Σεπτεμβρίου 2015

Let's grow up together



DRINK ADRIA



The project is co-funded by the European Union,
Instrument for Pre-Accession Assistance



Συνάντηση Κεφαλαιοποίησης των Αποτελεσμάτων του έργου DRINKADRIA / Capitalization Meeting
Θαλαρόακι (Πάλη Αντώνης Νικολάου) / Falliraki (Aelios Nikolaos Gate)

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5	Neuroscience Neuroscience	AS-VA Research	AS-VA Research	2310-25535	g.romano.2000@univie.it	
6	Neuroscience Neuroscience	AS-VA Research	AS-VA Research	2310-25535	g.romano.2000@univie.it	
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9	Neuroscience Neuroscience	AS-VA Research	AS-VA Research	2310-25535	g.romano.2000@univie.it	
10	Neuroscience Neuroscience	AS-VA Research	AS-VA Research	2310-25535	g.romano.2000@univie.it	
11	Neuroscience Neuroscience	AS-VA Research	AS-VA Research	2310-25535	g.romano.2000@univie.it	
12	Neuroscience Neuroscience	AS-VA Research	AS-VA Research	2310-25535	g.romano.2000@univie.it	
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14	Neuroscience Neuroscience	AS-VA Research	AS-VA Research	2310-25535	g.romano.2000@univie.it	
15	Neuroscience Neuroscience	AS-VA Research	AS-VA Research	2310-25535	g.romano.2000@univie.it	
16	Neuroscience Neuroscience	AS-VA Research	AS-VA Research	2310-25535	g.romano.2000@univie.it	
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18	Neuroscience Neuroscience	AS-VA Research	AS-VA Research	2310-25535	g.romano.2000@univie.it	
19	Neuroscience Neuroscience	AS-VA Research	AS-VA Research	2310-25535	g.romano.2000@univie.it	
20	Neuroscience Neuroscience	AS-VA Research	AS-VA Research	2310-25535	g.romano.2000@univie.it	





ΕΡΓΟ ΔΕΙΚΝΑΔΕΙΑ «Διασφαλιστική Συνεργασία Διακρίσεων Τόπιου Νερού στην περιοχή της Αθηνικής ΔΕΙΤΝΑΔΕΙΑ Project "Networking for Drinking Water Supply in the Aethetic Region".



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25	Arora, Anshika	Female	Yes	9811949492	anshika.kapoor@gmail.com	
26	Arora, Anshika	Female	Yes	9811949492	anshika.kapoor@gmail.com	
27	Arora, Anshika	Female	Yes	9811949492	anshika.kapoor@gmail.com	
28	Arora, Anshika	Female	Yes	9811949492	anshika.kapoor@gmail.com	
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35	Arora, Anshika	Female	Yes	9811949492	anshika.kapoor@gmail.com	
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37	Arora, Anshika	Female	Yes	9811949492	anshika.kapoor@gmail.com	
38	Arora, Anshika	Female	Yes	9811949492	anshika.kapoor@gmail.com	
39	Arora, Anshika	Female	Yes	9811949492	anshika.kapoor@gmail.com	
40	Arora, Anshika	Female	Yes	9811949492	anshika.kapoor@gmail.com	

Έργο DRINKADRICA*Διαμεριστική Συνεργασία Διακρίσιμης Πόσιμου Νερού στην περιοχή της Αδριατικής*.
DRINADRICA Project "Networking for Drinking Water Supply in the Adriatic Region".

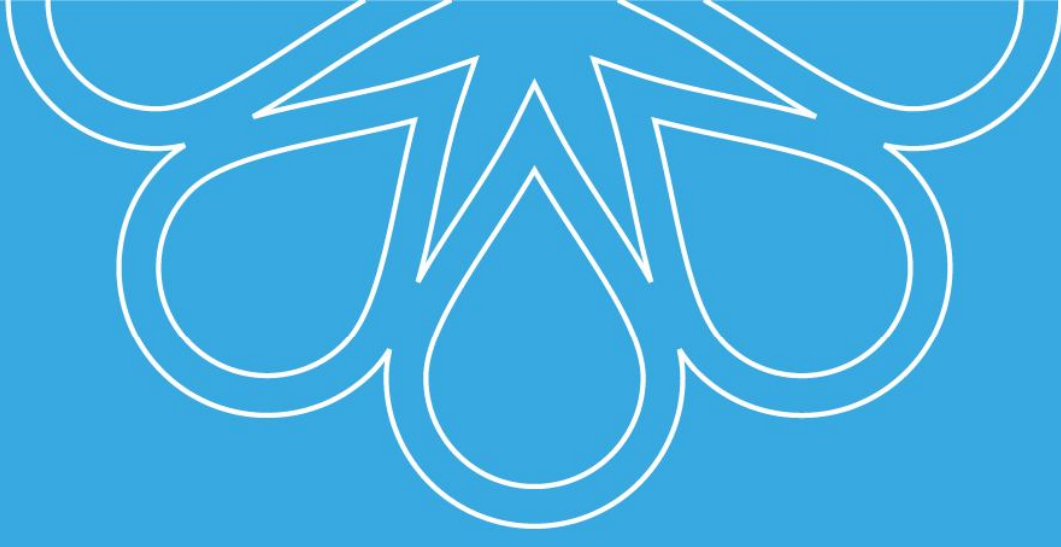


UNIVERSITY OF THESSALY

Παρουσίαση των πιλοτικών προγραμμάτων του έργου Drinkadria

Πανεπιστήμιο Θεσσαλίας, Ελλάδα
Συντονιστής: Αναπλ. Καθηγ. Βασίλης Κανακούδης

Κέρκυρα, 21 Σεπτεμβρίου 2015



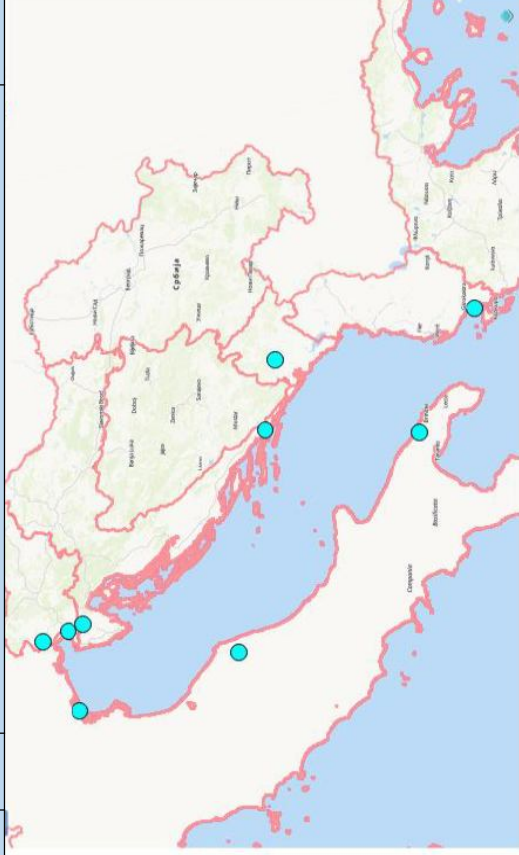
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Instrument for Pre-Accession Assistance

Οι πιλοτικές περιοχές του έργου Drinkadria

Φορέας	FB	Χώρα	Πιλοτική περιοχή	Πιλοτικό πρόγραμμα
CATO	LB	IT	San Dorligo Della Valle	Απώλειες νερού
VERITAS	1	IT	Murano island	Απώλειες νερού
			Βενετία	Ποιότητα νερού (μικροβιολογικοί παράγοντες)
			Mogliano	Ποιότητα νερού (σίδηρος, υδράργυρος)
ATO 3 Marche	2	IT	Περιοχή Marche	Ποσότητα, ποιότητα νερού
CNR	3	IT	Ostuni	Ποιότητα, ποσότητα νερού
Water Utility Nova Gorica	4	SLO	Δίκτυο ύδρευσης Nova Gorica	Απώλειες νερού
Water Utility of Istria	7	HR	Δίκτυο ύδρευσης Buzet	Απώλειες νερού
Hydro-Engineering + W. U. Neum	12 + 13	BiH	Αγωγός μεταφοράς Neum	Απώλειες νερού
Public Utility Niksic	14	MNE	Δίκτυο ύδρευσης Niksic	Απώλειες νερού
Region of Ionian Islands + Univ. of Thessaly	15 + 16	GR	Δίκτυο ύδρευσης πόλης Κέρκυρας	Απώλειες νερού



LB - CATO

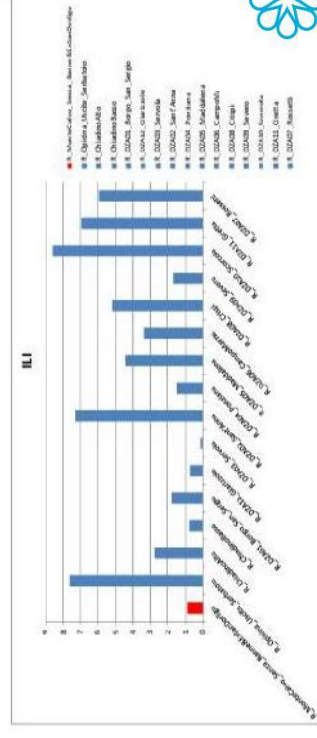
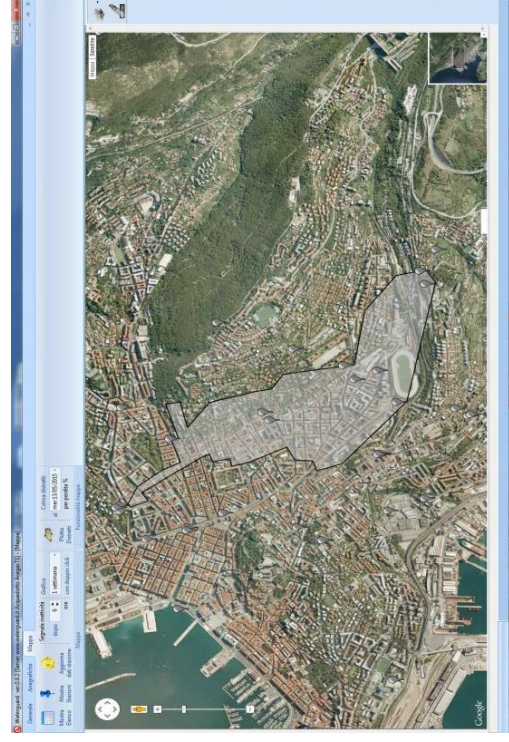
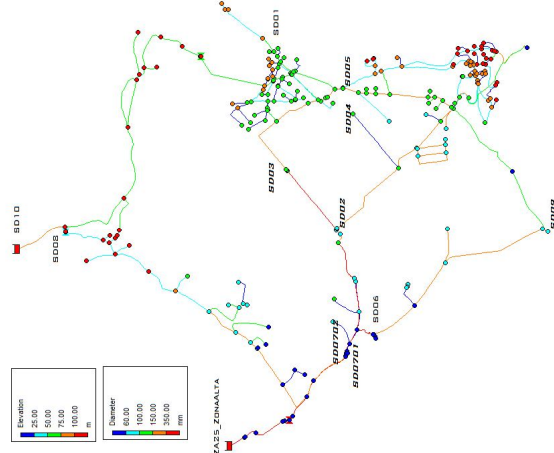
- Πιλοτική Περιοχή: San Dorligo della Valle
- Στόχος: Μείωση των απωλειών νερού (υψηλή πίεση λειτουργίας)
- Περιγραφή πιλοτικής περιοχής: 3 DMAs
- Βήματα πιλοτικής δράσης:
 - Ανάλυση παροχής ζώνης
 - Έλεγχος για διαρροές (ενεργός έλεγχος διαρροών)
 - Καταγραφικά θορύβου
 - Διαχείριση πίεσης
 - Ανάπτυξη μοντέλου προσομοίωσης υδραυλικής λειτουργίας
- Αναμενόμενα Αποτελέσματα:
 - ✓ Μείωση ελάχιστης νυχτερινής παροχής
 - ✓ Μείωση διαρροών



LB - CATO



- Δράσεις:
- Χωρισμός σε DMAs & παρακολούθηση παροχής & πίεσης
 - GIS
 - Εγκατάσταση καταγραφικών θορύβου
 - Εγκατάσταση έξυπνων μετρητών
 - Ανάπτυξη μοντέλου προσομοίωσης υδραυλικής λειτουργίας δικτύου (βαθμονόμηση & επικύρωση)
 - Λογισμικό για την διαχείριση των DMAs



FB1 – VERITAS S.p.A. – Απώλειες νερού

- Πιλοτική Περιοχή: Νήσος Murano (Βενετία)
- Στόχος: μείωση πραγματικών απωλειών
- Περιγραφή πιλοτικής περιοχής: 1 DMA (Murano)
- Βήματα πιλοτικής δράσης:
 - Ανάλυση παροχής ανά ζώνη (DMA, MNF, step testing)
 - Διαχείριση πίεσης
 - Ανάπτυξη μοντέλου προσομοίωσης υδραυλικής λειτουργίας του δικτύου
- Αναμενόμενα Αποτελέσματα:
 - ✓ Ενδείξεις της κατανάλωσης και τυχόν ανωμαλίες
 - ✓ Επικαιροποίηση των δεδομένων κατανάλωσης, ποιότητας και πίεσης
 - ✓ Ανάλυση των διακυμάνσεων με τον χρόνο για την μείωση των απωλειών νερού στο δίκτυο
 - ✓ Βελτιστοποίηση της πίεσης λειτουργίας, της παροχής και της ποιότητας νερού



FB1 – VERITAS S.p.A. – Απώλειες νερού



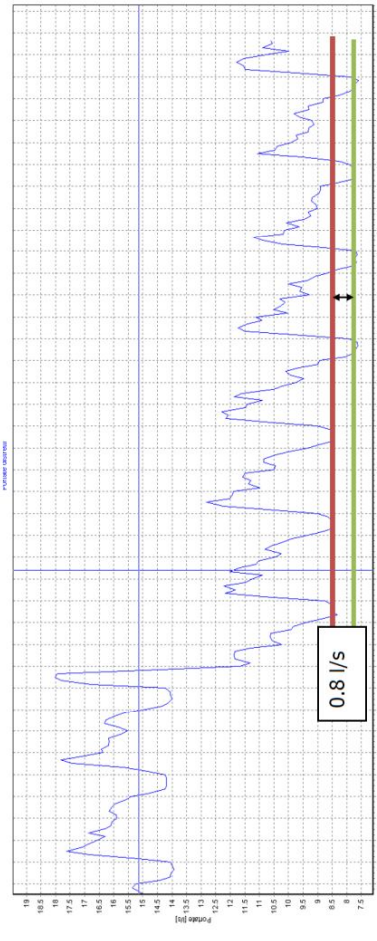
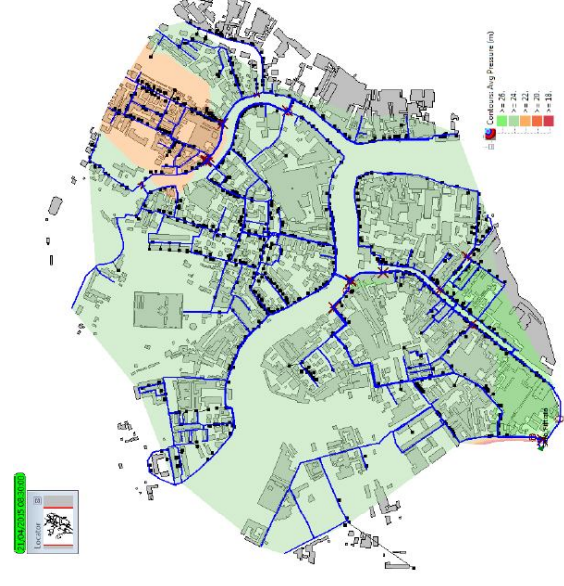
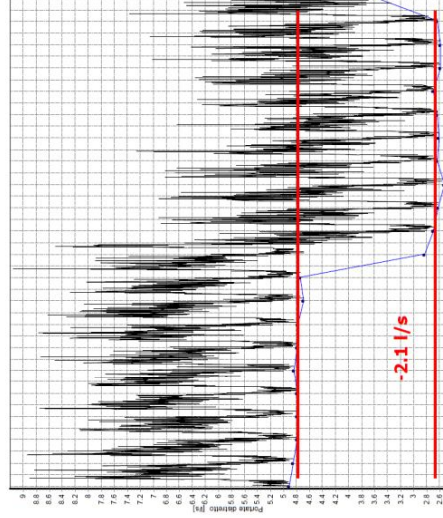
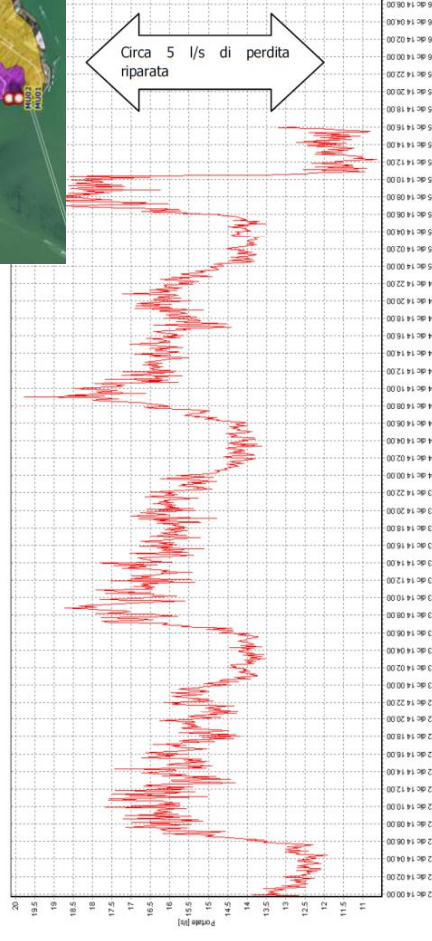
Δράσεις:

- Χωρισμός σε DMAs
- Εντοπισμός διαρροών
- Έρευνα εντοπισμού διαρροών με καταγραφικά ήχου

καταγραφικά ήχου

- Ανάπτυξη μοντέλου προσομοίωσης υδραυλικής λειτουργίας δικτύου (βαθμονόμηση)

Επόμενο βήμα: εγκατάσταση μετρητών

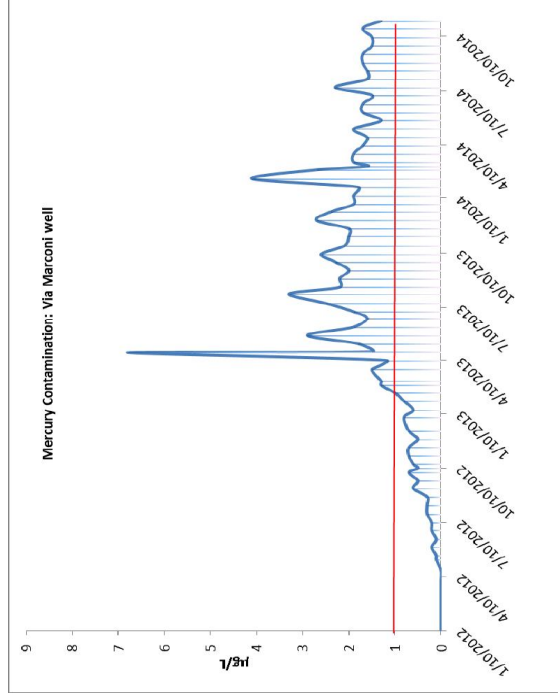
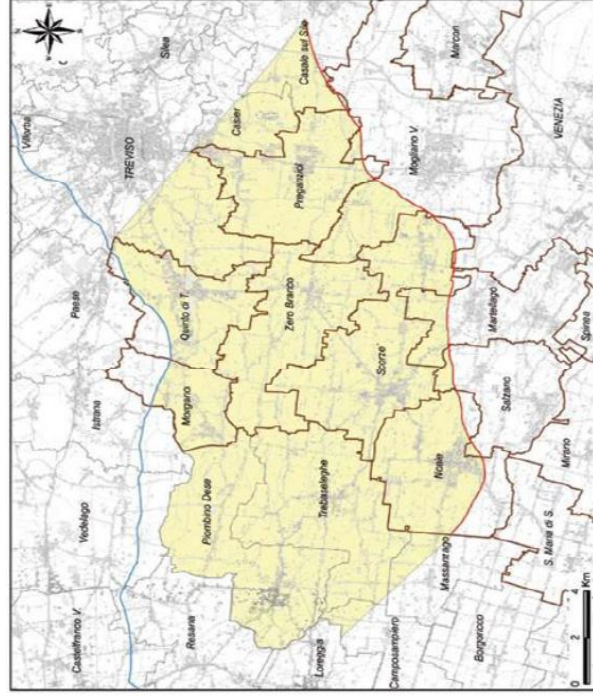


FB1 – VERITAS S.p.A. – Ποιότητα νερού

- Πιλοτική Περιοχή: Mogliano
- Στόχος: δοκιμή δύο μεθόδων επεξεργασίας για την απομάκρυνση σιδήρου και υδραργύρου
- Βήματα πιλοτικής δράσης:
 - Δοκιμή της μεθόδου αντίστροφης όσμωσης και ενεργού άνθρακα
- Αναμενόμενα Αποτελέσματα:
 - ✓ Εκτίμηση αποδοτικότητας και οικονομικών επιπτώσεων δύο διαφορετικών τεχνικών για την βελτίωση της ποιότητας του πόσιμου νερού



FB1 – VERITAS S.p.A. – Ποιότητα νερού



Δράσεις:

- Εγκατάσταση μονάδας αντίστροφης όσμωσης
- Μείωση συγκεντρώσεων υδραργύρου κατά 90%, των συγκεντρώσεων μαγγανίου κατά 95% και σιδήρου κατά 99%



FB1 – VERITAS S.p.A. – Ποιότητα νερού: μικροβιολογικοί παράγοντες

- Πιλοτική Περιοχή: Βενετία
- Στόχος: διαχείριση μικροβιολογικών παραγόντων που επηρεάζουν την ποιότητα του νερού
- Βήματα πιλοτικής δράσης:
 - Χρήση της νέας τεχνικής q-PCR (polymerase chain reaction) για τον προσδιορισμό παθογενών μικροοργανισμών
- Αναμενόμενα Αποτελέσματα:
 - ✓ Άμεση διαχείριση μικροοργανισμών στο πόσιμο νερό ειδικά αυτών που αποτελούν βιολογικές απειλές



FB1 – VERITAS S.p.A. – Ποιότητα νερού: μικροβιολογικοί παράγοντες



Δράσεις:

- Σύγκριση μεταξύ της διήθησης μέσω μεμβράνης και της PCR σε πραγματικό χρόνο
- Ανίχνευση και καταμέτρηση της legionella spp & της salmonella spp
- Αξιόπιστα αποτελέσματα μετά από 5 ώρες αντί για 10-12 ημέρες (με τις κλασσικές μεθόδους)
- Δοκιμή και σε μεμονωμένους καταναλωτές
- Στατιστική ανάλυση αποτελεσμάτων

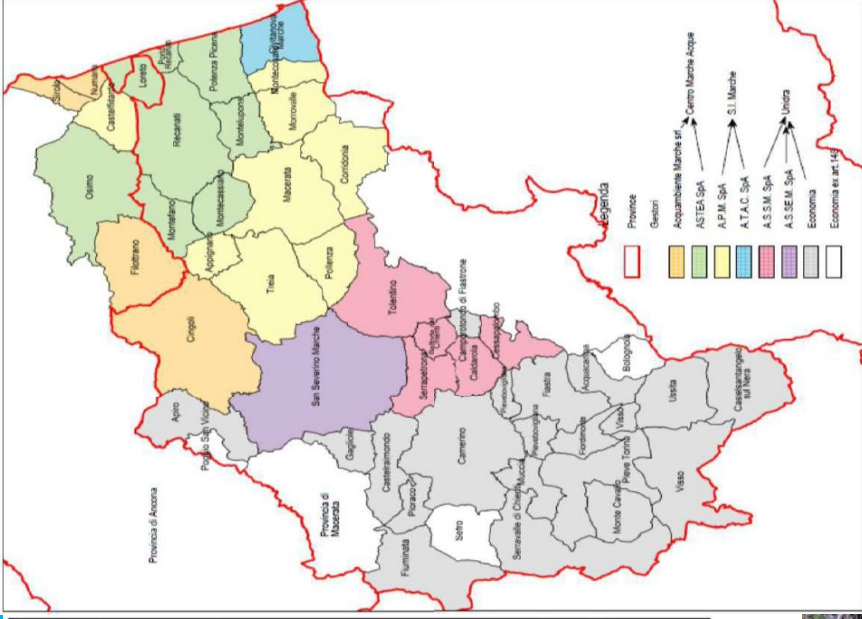
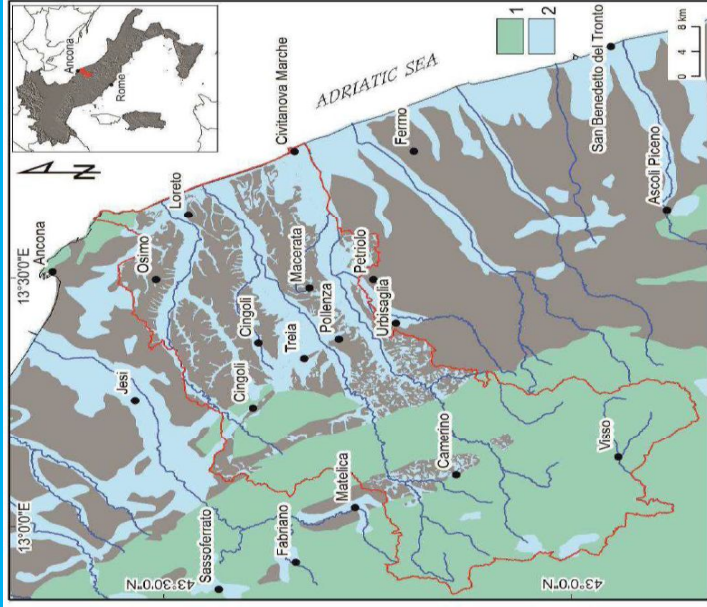


FB2 – ATO 3 MARCHÉ

- Πιλοτική Περιοχή: Περιοχή Marche – εγκατάσταση ενός συστήματος μέτρησης και παρακολούθησης σε πραγματικό χρόνο (real time)
- Στόχος: καλύτερος σχεδιασμός σύνδεσης υδατικών συστημάτων και προσδιορισμός προστατευόμενων περιοχών για πόσιμο νερό
- Περιγραφή πιλοτικής περιοχής: νερό που χρησιμοποιείται για την ύδρευση 48 οικισμών (356.000 κατοίκων) – συνολική άντληση: 45 εκ. m³ – έλλειψη μετρήσεων
- Αναμενόμενα Αποτελέσματα:
 - ✓ Παροχή δεδομένων σε πραγματικό χρόνο σχετικά με το νερό που εισέρχεται στο δίκτυο και την εκροή νερού
 - ✓ Παρακολούθηση ποσότητας και ποιότητας υδατικών πόρων που χρησιμοποιούνται για ύδρευση



FB2 – ATO 3 MARCHE



Δράσεις:

- Υδρογεωλογική μελέτη
- Εξοπλισμός: συσκευές μέτρησης και παρακολούθησης σε πραγματικό χρόνο σε 10 πηγές, 9 πηγάδια και 1 λίμνη
- Παράμετροι:

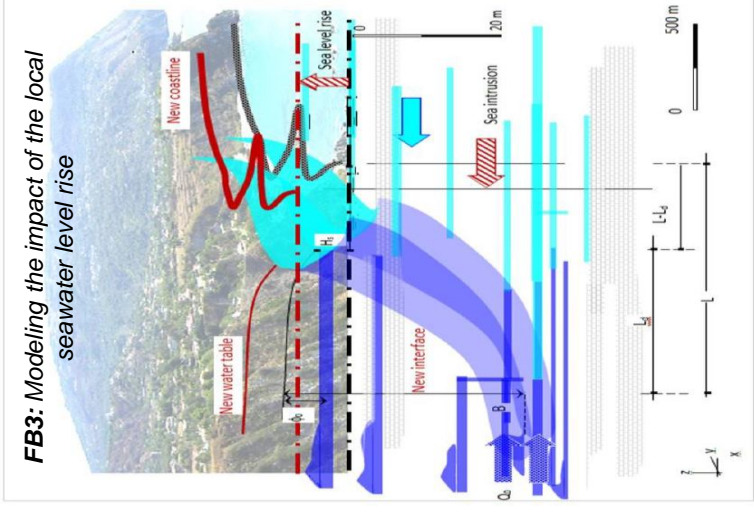
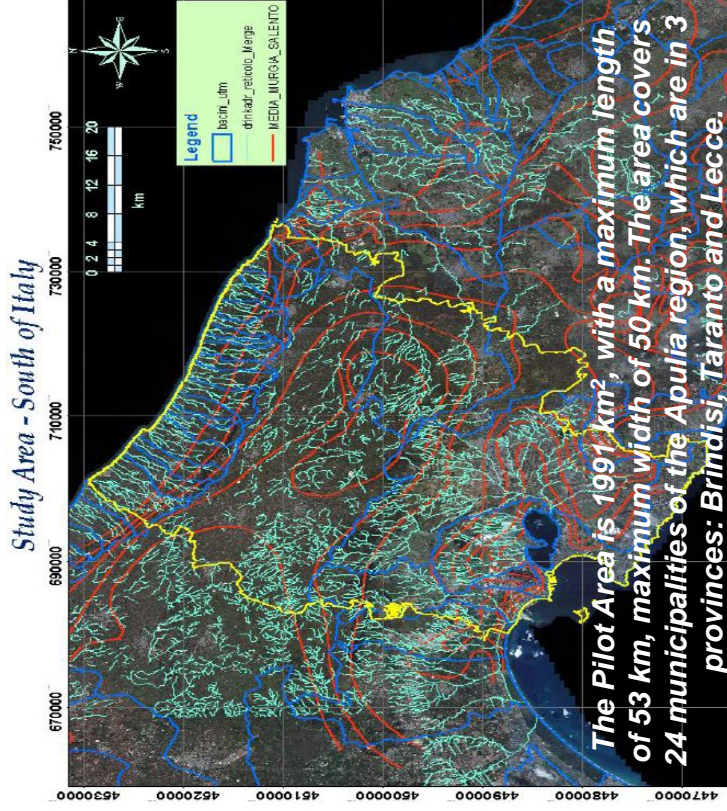
- Φυσική απορροή
- Επίπεδο υπόγειου νερού
- Ποσό βροχόπτωσης
- Φυσικο-χημικές παράμετροι (θερμοκρασία, αλκαλικότητα, αγωγιμότητα, νιτρικά)



FB3 – CNR

- Πιλοτική Περιοχή: Ostuni (24 δήμοι)
- Στόχος: μελέτη της ροής των υπόγειων υδάτων και συγκεκριμένα της διείσδυσης θαλασσινού νερού
- Περιγραφή πιλοτικής περιοχής: το νερό μπορεί να χρησιμοποιηθεί για την κάλυψη υδρευτικών αναγκών τουριστικών περιοχών
- Βήματα πιλοτικής δράσης:
 - Χρήση υφιστάμενου μοντέλου
 - Προσομοίωση διείσδυσης θαλασσινού νερού
 - Παρακολούθηση μικροβιολογικών και χημικών παραμέτρων και του βάθους των πηγαδίων
 - Εργαστηριακές αναλύσεις
- Αναμενόμενα Αποτελέσματα:
 - ✓ Εκτίμηση επιπτώσεων κλιματικής αλλαγής στα υπόγεια νερά
 - ✓ Αξιολόγηση της ποιοτικής κατάστασης των επιφανειακών & των υπόγειων νερών (WFD 2000/60/EC)
 - ✓ Μοντέλα και μεθοδολογία αποφυγής διείσδυσης θαλασσινού νερού στις παράκτιες περιοχές
 - ✓ Μέθοδοι για την βελτίωση της διαχείρισης της παροχής των υπόγειων νερών
 - ✓ Μοντελοποίηση των υπόγειων νερών για την βελτίωση της ποιότητάς τους





Δράσεις:

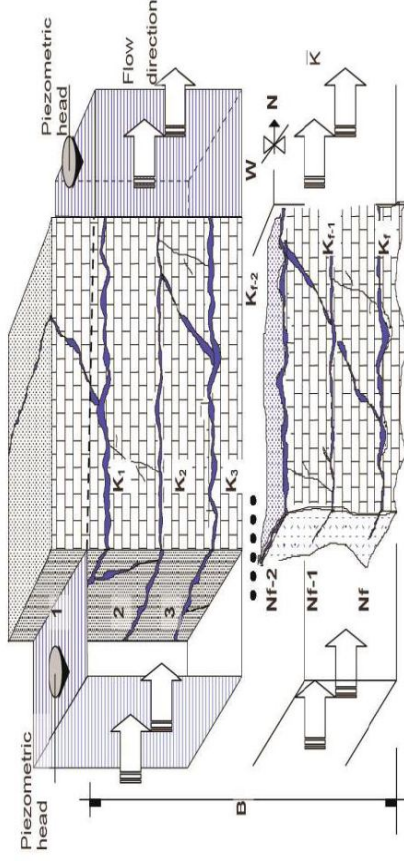
- Παρακολούθηση

μικροβιολογικών παραμέτρων, χημικών παραμέτρων και του βάθους των πηγαδίων

- Μοντέλα προσομοίωσης της διείσδυσης θαλασσινού νερού
- Εκτίμηση του υπόγειου νερού

που μπορεί να ανακτηθεί

(τεχνητός εμπλουτισμός) και να χρησιμοποιηθεί για ύδρευση

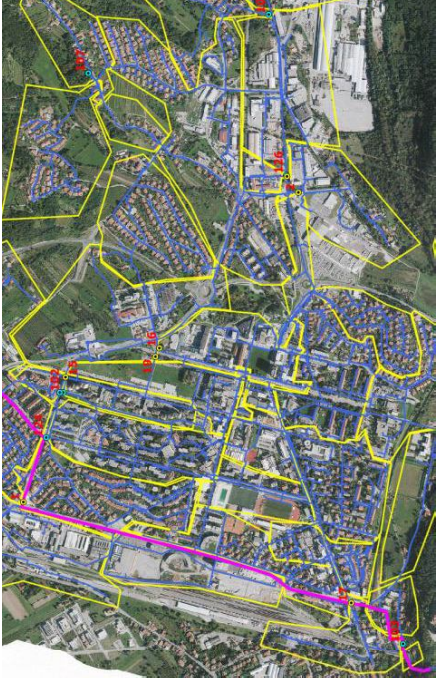
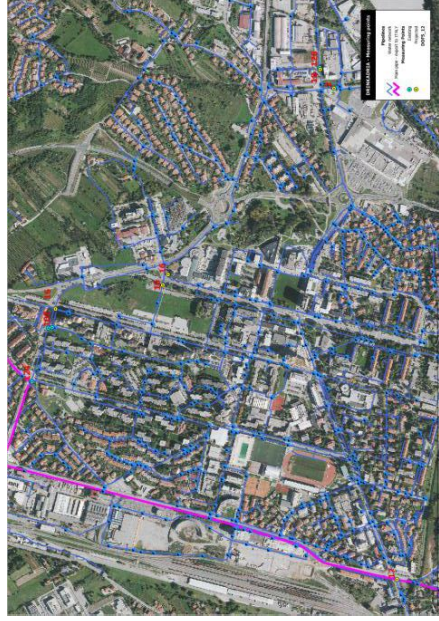


FB4 – WATER UTILITY NOVA GORICA

- Πιλοτική Περιοχή: δίκτυο ύδρευσης Nova Gorica
- Στόχος: μείωση πραγματικών απωλειών
- Περιγραφή πιλοτικής περιοχής: νερό «εξάγεται» από μία περιοχή στην γειτονική Ιταλία
- Βήματα πιλοτικής δράσης:
 - Προσδιορισμός των ελλিপών δεδομένων από το GIS (π.χ. υψόμετρα)
 - Ανάπτυξη μοντέλου προσομοίωσης υδραυλικής λειτουργίας
 - Κατασκευή και εγκατάσταση σημείων παρακολούθησης με μετρητές παροχής
 - Ανάλυση των δεδομένων και σύγκριση με τα αποτελέσματα του μοντέλου προσομοίωσης
 - Προσδιορισμός της περιοχής με τις μεγαλύτερες απώλειες
- Αναμενόμενα Αποτελέσματα:
 - ✓ Προσδιορισμός των περιοχών με τις περισσότερες διαρροές
 - ✓ Ανάπτυξη μοντέλου προσομοίωσης υδραυλικής λειτουργίας



FB4 – WATER UTILITY NOVA GORICA



Δράσεις:

- Μετρήσεις παροχής – πίεσης
- Επιλογή βέλτιστων θέσεων
- Συλλογή απαραίτητων δεδομένων
- Χωρισμός του δικτύου σε DMAs
- Ανάπτυξη μοντέλου

προσομοίωσης υδραυλικής
λειτουργίας

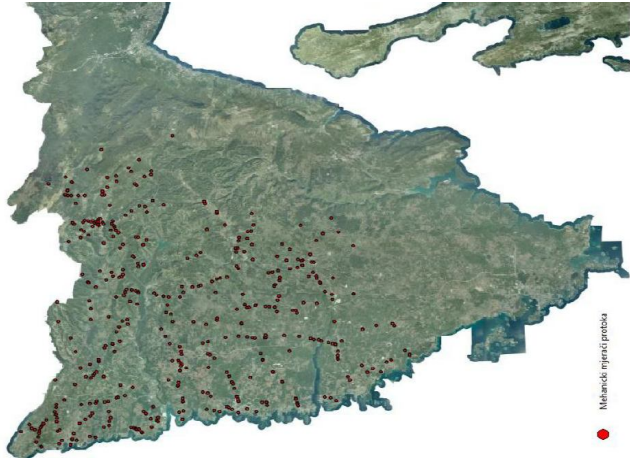


FB7 – WATER UTILITY OF ISTRIA

- Πιλοτική Περιοχή: Δίκτυο ύδρευσης Buzet
- Στόχος: μείωση απωλειών νερού και κόστους λειτουργίας
- Περιγραφή πιλοτικής περιοχής: 230.000 κάτοικοι – επιπλέον 200.000 τουρίστες το καλοκαίρι. Το δίκτυο είναι χωρισμένο σε 129 DMAs
- Βήματα πιλοτικής δράσης:
 - Εγκατάσταση νέων μετρητών (AMR)
 - Εγκατάσταση συσκευών τηλεμετρίας
 - Εγκατάσταση βαλβίδων πίεσης
- Αναμενόμενα Αποτελέσματα:
 - ✓ Μείωση απωλειών νερού
 - ✓ Ασφαλέστερη παροχή νερού
 - ✓ Άμεσος εντοπισμός αστοχιών στο δίκτυο
 - ✓ Μεγαλύτερη ακρίβεια μετρήσεων κατανάλωσης νερού

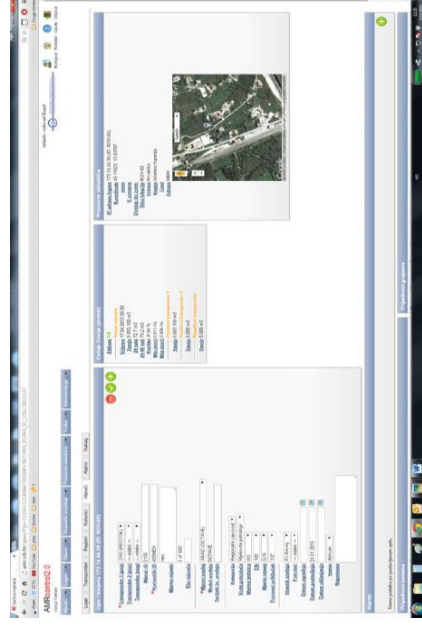


FB7 – WATER UTILITY OF ISTRIA



Δράσεις:

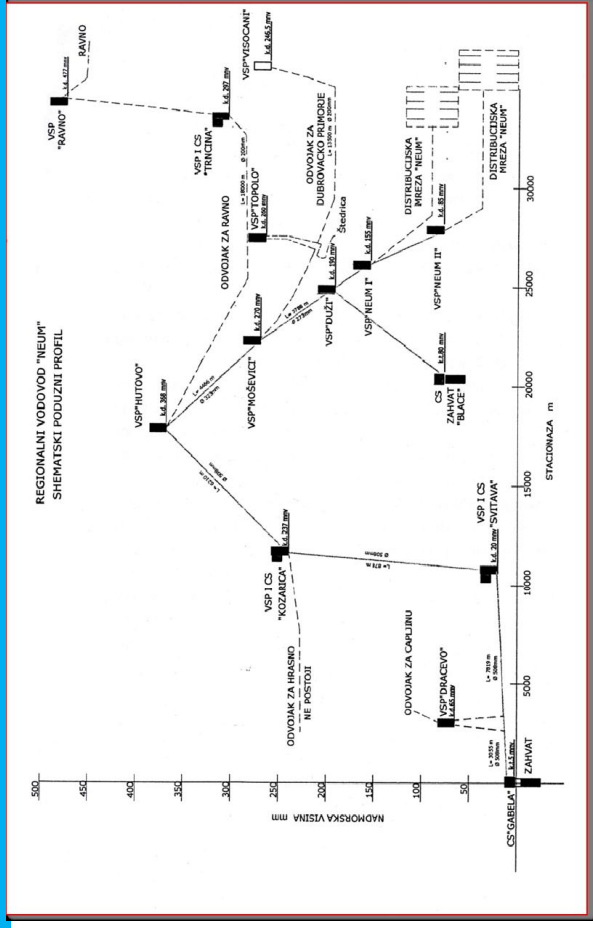
- Εγκατάσταση 344 υδρομέτρων, 329 συσκευών τηλεμετρίας και 10 βαλβίδων πίεσης
- Αγορά λογισμικού διαχείρισης AMR
- Αναδιοργάνωση του συστήματος παρακολούθησης των διαρροών
- Επικαιροποίηση του GIS
- Δημιουργία υποζωνών
- Διαχείριση πίεσης



FB12 & 13 – HYDRO-ENGINEERING & WATER UTILITY OF NEUM

- Πιλοτική Περιοχή: αγωγός μεταφοράς νερού δήμος Neum
- Στόχος: μείωση απωλειών νερού
- Βήματα πιλοτικής δράσης:
 - Εντοπισμός αγωγών που πρέπει να αντικατασταθούν
 - Αντικατάσταση αγωγού 1380m
 - Μετρήσεις για την αποτίμηση της κατάστασης
- Αναμενόμενα Αποτελέσματα:
 - ✓ Μείωση απωλειών νερού
 - ✓ Βελτίωση ποιότητας νερού
 - ✓ Αποδοτικότερη και αποτελεσματικότερη παροχή νερού





Δράσεις:

- Αντικατάσταση αγωγού μεταφοράς νερού συνολικού μήκους 1380m

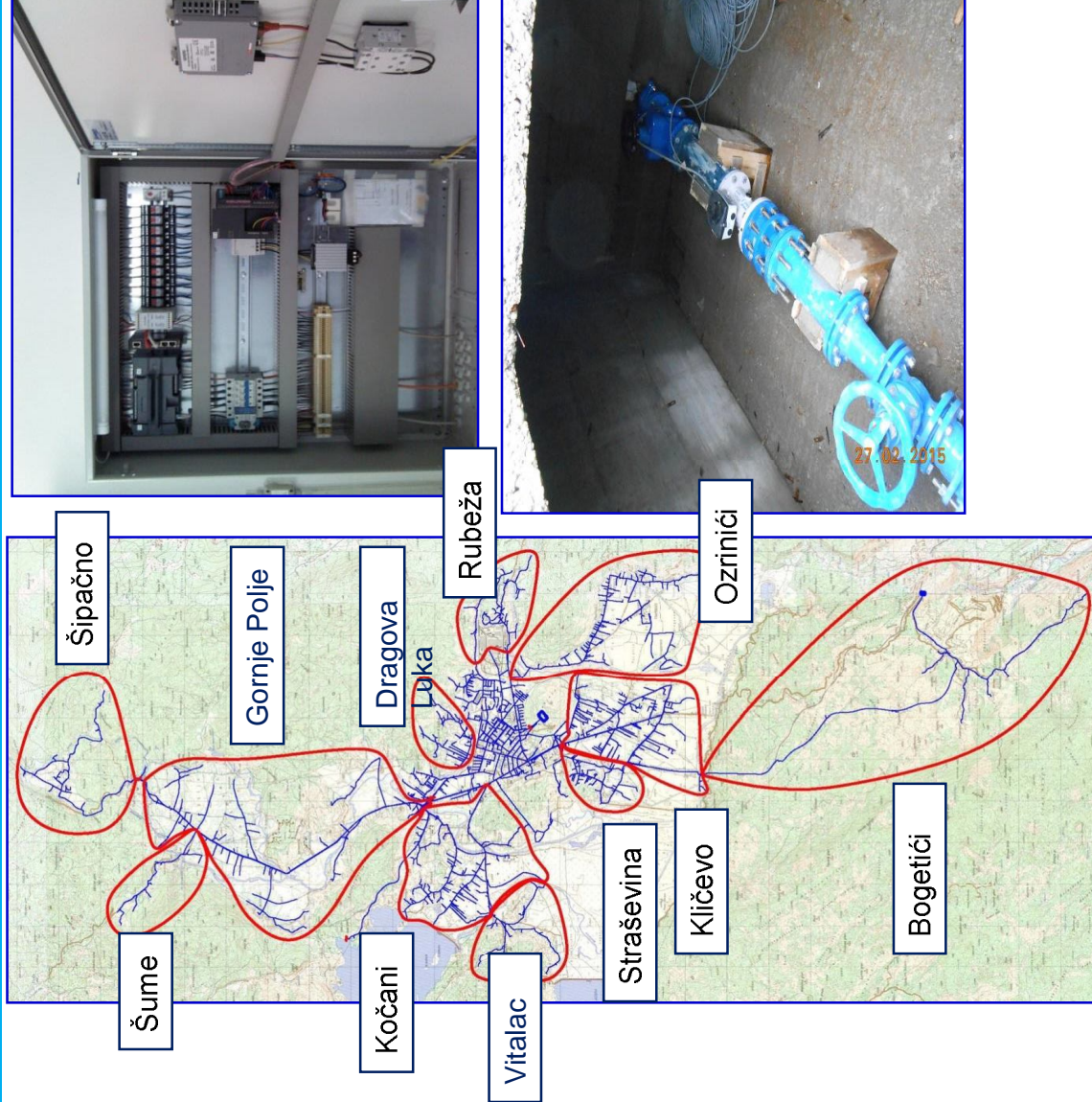


FB14 – PUBLIC UTILITY NIKSIC

- Πιλοτική Περιοχή: δίκτυο ύδρευσης Niksic
- Στόχος: μείωση απωλειών νερού
- Βήματα πιλοτικής δράσης:
 - Ανάπτυξη GIS του δικτύου
 - Ανάπτυξη μοντέλου προσομοίωσης υδραυλικής λειτουργίας
 - Χωρισμός δικτύου σε DMAs
 - Εγκατάσταση μετρητικού εξοπλισμού και σύνδεσή του με το SCADA
 - Σύνδεση του GIS με το SCADA
 - Διαχείριση και μείωση απωλειών νερού
- Αναμενόμενα Αποτελέσματα:
 - ✓ Μείωση απωλειών νερού
 - ✓ Μείωση παράνομης χρήσης νερού (στόχος 50%)
 - ✓ Μείωση του παρεχόμενου νερού (στόχος 20%)
 - ✓ Ενημέρωση πολιτών



FB14 – PUBLIC UTILITY NIKSIC



Δράσεις:

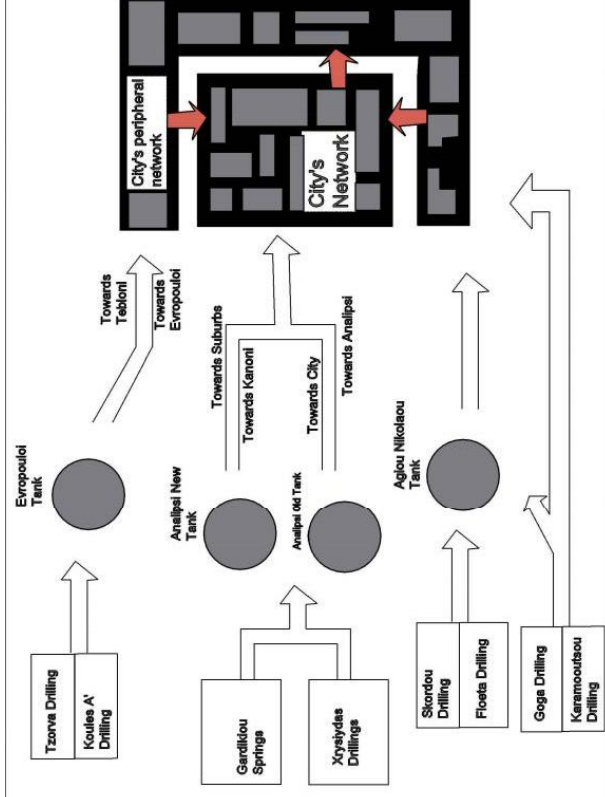
- 17 σημεία μέτρησης παροχής και πίεσης
- Σύνδεση με το SCADA
- Σύνδεση του GIS με το SCADA
- Χωρισμός του δικτύου σε 11 DMAs
- Ανάπτυξη μοντέλου υδραυλικής προσομοίωσης και βαθμονόμηση
- Εφαρμογή μεθόδων για την μείωση των απωλειών
- Ενημέρωση του κοινού

FB15 & 16 – ΠΕΡΙΦΕΡΕΙΑ ΙΟΝΙΩΝ ΝΗΣΩΝ & ΠΑΝΕΠΙΣΤΗΜΙΟ ΘΕΣΣΑΛΙΑΣ

- Πιλοτική Περιοχή: Δίκτυο ύδρευσης πόλης Κέρκυρας
- Στόχος: αύξηση καταγραφόμενου όγκου νερού
- Περιγραφή πιλοτικής περιοχής: 28.500 μετρητές
- Βήματα πιλοτικής δράσης:
 - Αντικατάσταση περίπου 4.500 υδρομετρητών καταναλωτών
 - Καταγραφή κατανάλωσης
 - Επικαιροποίηση του υδραυλικού μοντέλου του δικτύου
- Αναμενόμενα Αποτελέσματα:
 - ✓ Αύξηση αποδοτικού νερού
 - ✓ Αύξηση εσόδων για την χρηματοδότηση άλλων δράσεων μείωσης του Μη Ανταποδοτικού νερού
 - ✓ Μείωση του Μη Ανταποδοτικού νερού

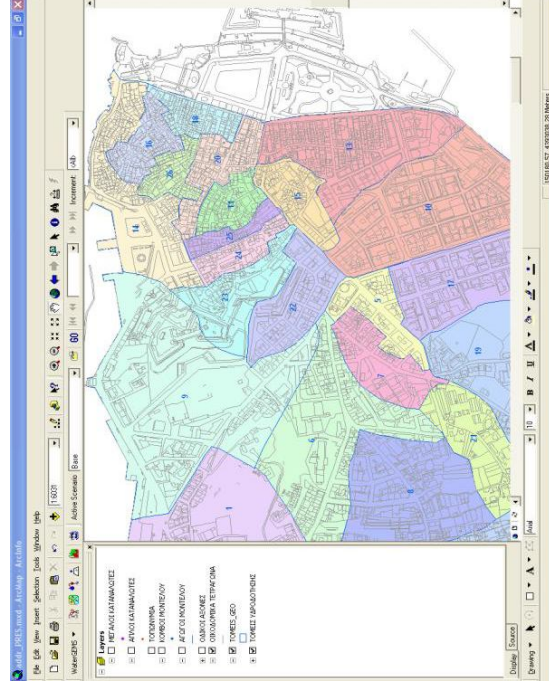


FB15 & 16 – ΠΕΡΙΦΕΡΕΙΑ ΙΟΝΙΩΝ ΝΗΣΩΝ &
ΠΑΝΕΠΙΣΤΗΜΙΟ ΘΕΣΣΑΛΙΑΣ



Δράσεις:

- Μελέτη της ΔΕΥΑ Κέρκυρας κατέδειξε ότι η υπομέτρηση ξεπερνά το 45%
- Αντικατάσταση 4.500 μετρητών
- Επικαιροποίηση του μοντέλου υδραυλικής λειτουργίας του δικτύου



Ευχαριστώ!!

Ομάδα Πανεπιστημίου Θεσσαλίας

Συντονιστής: **Αναπλ. Καθ. Βασίλης Κανακούδης**
Δρ. Σταυρούλα Τσιτσιφλή (Αναπλ. Συντον. Τεχνικού Αντικειμένου)
Αναστασία Παπαδοπούλου (Αναπλ. Συντον. Οικον. Αντικ. & Τεχνική Υποστ.)

Αλεξάνδρα Ρουβά (Τοπικός Συντονιστής)
Ιωάννα Χυτήρη (Βοηθός Τοπικού Συντονιστή)

Αλέξανδρος Πρίγκος (Financial Auditor)
Ιφιγένεια Αργυριάδου (Τεχνική Υποστήριξη)
Ευμορφία Δροσίτη (Τεχνική Υποστήριξη)

Κέρκυρα, 21 Σεπτεμβρίου 2015

Let's grow up together



DRINK ADRIA



Adriatic IPA
Cross Border Cooperation 2007-2013



The project is co-funded by the European Union,
Instrument for Pre-Accession Assistance



UNIVERSITY OF THESSALY

Το έργο Drinkadria: ΣΥΝΕΡΓΑΣΙΑ ΓΙΑ ΤΗ ΔΙΑΧΕΙΡΙΣΗ
ΠΟΣΙΜΟΥ ΝΕΡΟΥ ΣΤΗΝ ΠΕΡΙΟΧΗ ΤΗΣ ΑΔΡΙΑΤΙΚΗΣ
NETWORKING FOR DRINKING WATERSUPPLY IN ADRIATIC
REGION

Βασίλης Κανακούδης, Αναπλ. Καθηγητής
Επιστημονικώς Υπεύθυνος και Επικεφαλής Ομάδας Έργου
Αναστασία Παπαδοπούλου
Πανεπιστήμιο Θεσσαλίας, Τμήμα Πολιτικών Μηχανικών

«Κεφαλαιοποίηση των Αποτελεσμάτων του DRINKADRIA»
Κέρκυρα, 21 Σεπτεμβρίου 2015



DRINKADRIA



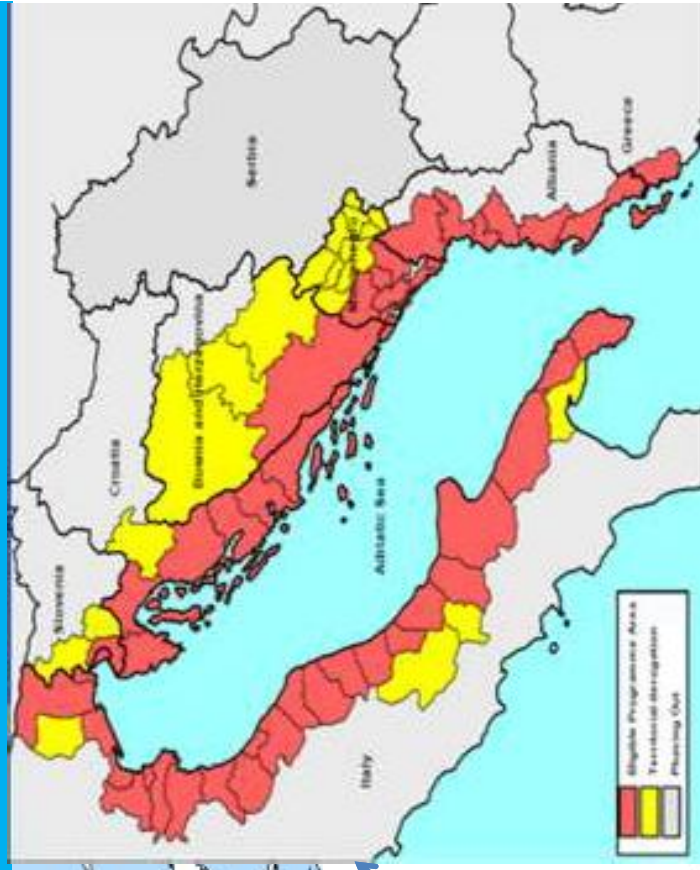
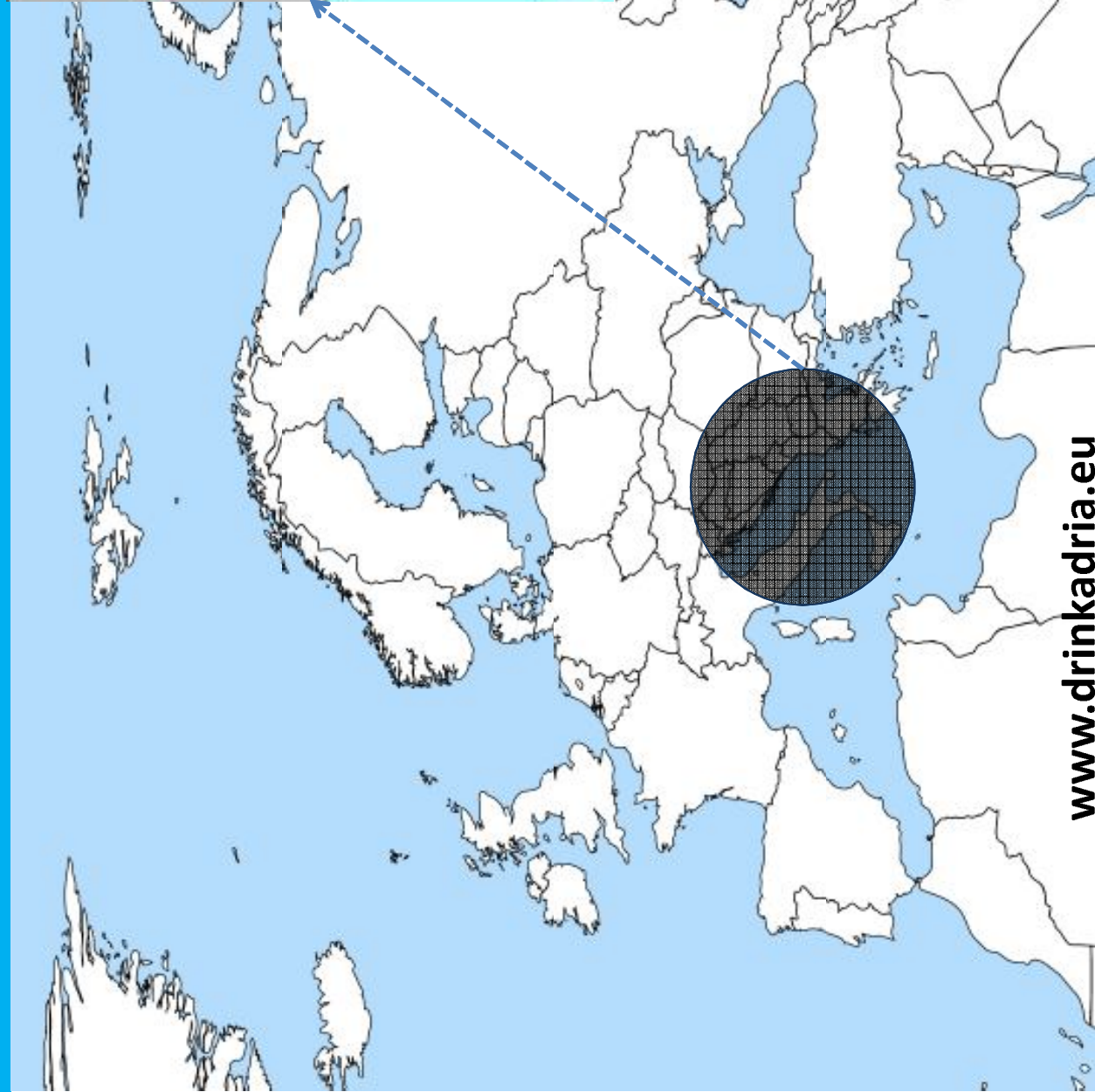
The project is co-funded by the European Union,
Instrument for Pre-Accession Assistance

Let's grow up together

Περιεχόμενα

- ☐ Η ύπαρξη συνόρων ως ευκαιρία
- ☐ Μία αποτελεσματική μεθοδολογική προσέγγιση
- ☐ Βασικές εκροές και αποτελέσματα
 - ☐ Χαρακτηριστικά κλιματικής αλλαγής και διαθεσιμότητα υδατικών πόρων
 - ☐ Ανάλυση ποιότητας υδάτων και μελλοντικές τάσεις
 - ☐ Ιστορική ανάπτυξη διασυνοριακών συστημάτων διαχείρισης υδατικών πόρων
 - ☐ Πρωτόκολλα και διαδικασίες αποτελεσματικής παροχής νερού σε διασυνοριακό επίπεδο και οικονομικά μοντέλα σε περιφερειακό επίπεδο
- ☐ Επόμενα βήματα
- ☐ Συμπεράσματα

“Η ύπαρξη συνόρων”: Μία μοναδική ευκαιρία



Τίτλος έργου: Συνεργασία για τη διαχείριση πόσιμου νερού στην περιοχή της Αδριατικής
Networking for Drinking Water Supply in Adriatic Region

Πρόγραμμα: ΜΠΒ Αδριατική
Πρόγραμμα Διασυνοριακής Συνεργασίας 2007-2013

Διάρκεια έργου: 11/2013 - 3/2016

Προϋπολογισμός: 6.643.648,36 €

Αριθμός δικαιούχων: 17

Αριθμός συνεργαζόμενων: 10



DRINK ADRIA

www.drinkadria.eu

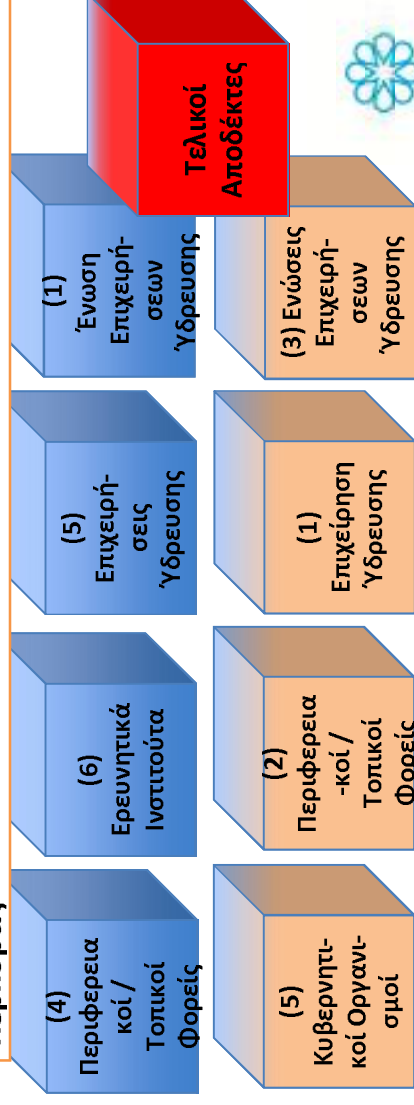
“Η ύπαρξη συνόρων”: Μία μοναδική ευκαιρία

Εταίροι

Area Council for Eastern Integrated Water Service of Trieste (CATO)	ITALIA
VERITAS Joint-Stock Company	ITALIA
OPTIMAL TERRITORIAL AREA AUTHORITY N. 3 CENTRAL MARCHE – MACERATA	ITALIA
Italian National Council -Water Research Institute (CNR-IRSA)	ITALIA
Water Utility of Nova Gorica	ΣΛΟΒΕΝΙΑ
University of Ljubljana	ΣΛΟΒΕΝΙΑ
Region of Istria	ΚΡΟΑΤΙΑ
Water utility of Istria	ΚΡΟΑΤΙΑ
Faculty of Civil Engineering, University of Rijeka	ΚΡΟΑΤΙΑ
Croatian Geological Survey	ΚΡΟΑΤΙΑ
Jaroslav Černi Institute for the Development of Water Resources	ΣΕΡΒΙΑ
Water Supply and Sewerage Association of Albania (SHUKALB)	ΑΛΒΑΝΙΑ
Hydro-Engineering Institute of Civil engineering faculty University of Sarajevo	ΒΟΣΝΙΑ & ΕΡΖΕΓΟΒΙΝΗ
P.C. UTILITY NEUM	ΒΟΣΝΙΑ & ΕΡΖΕΓΟΒΙΝΗ
Public Utility »Vodovod i kanalizacija« Nikšić	ΜΑΥΡΟΒΟΥΝΙΟ
Περιφέρεια Ιονίων Νήσων	ΕΛΛΑΔΑ
Πανεπιστήμιο Θεσσαλίας	ΕΛΛΑΔΑ

Συνεργαζόμενοι Φορείς

FEDERUTILITY	ITALIA
CROATIAN WATERS	ΚΡΟΑΤΙΑ
IWS -Istrian Water Protection System	ΚΡΟΑΤΙΑ
Primorje-Gorski Kotar county	ΚΡΟΑΤΙΑ
Ministry of Agriculture, Forestry and Water Management, Water Directorate	ΣΕΡΒΙΑ
Slovenian Environment Agency	ΣΛΟΒΕΝΙΑ
Adriatic Sea Watershed Agency	ΒΟΣΝΙΑ & ΕΡΖΕΓΟΒΙΝΗ
THE MUNICIPALITY OF NEUM	ΒΟΣΝΙΑ & ΕΡΖΕΓΟΒΙΝΗ
Water Supply and Treatment of Waste Drainage Association of Montenegro	ΜΑΥΡΟΒΟΥΝΙΟ
Republic of Slovenia - Ministry of Agriculture and Environment	ΣΛΟΒΕΝΙΑ
Δημοτική Επιχείρηση Ύδρευσης και Αποχέτευσης Κέρκυρας	ΕΛΛΑΔΑ



Μεθοδολογική Προσέγγιση

☐ Γιατί το έργο DRINKADRIA

- ☒ Διαχείριση υδατικών πόρων
- ☒ Παροχή πόσιμου νερού σε διασυνοριακό επίπεδο
- ☒ Πιλοτικά έργα
- ☒ Βιωσιμότητα και κεφαλαιοποίηση

☐ Δίκτυο εμπειρογνομώνων

☐ Τα σύνορα ως ευκαιρία συνεργασίας

☐ Το Γεωγραφικό και Πολιτισμικό Περιεχόμενο



“το νερό είναι το πιο σημαντικό κοινό αγαθό και η διασφάλιση της βέλτιστης ποσότητας και ποιότητάς του, ένθεν και ένθεν των συνόρων, αποτελεί πρωταρχικό σκοπό”

Μεθοδολογική Προσέγγιση

Διασυνοριακή διαχείριση υδατικών πόρων

- Βάση δεδομένων κλιματικής αλλαγής και υδρολογικών χαρακτηριστικών για την περιοχή της Αδριατικής
- Κοινή μεθοδολογία προσδιορισμού διαθεσιμότητας υδατικών πόρων, κοινοί δείκτες διαχείρισης κινδύνων (μόλυνση, έλλειψη) & υπέρχουσα/μελλοντική ζήτηση
- Τάσεις και προβλέψεις για την ποιότητα των υδατικών πόρων στις πιλοτικές περιοχές
- Εκτίμηση κλιματικής αλλαγής σε σχέση με τις αλλαγές στις χρήσεις γης
- Πρωτόκολλο ενεργειών παρακολούθησης υδατικών πόρων στην Αδριατική
- Μεθοδολογία υπολογισμού τρωτότητας υδατικών πόρων και σχετικοί κίνδυνοι
- Μέτρα προστασίας υδατικών πόρων σε διασυνοριακό επίπεδο στην περιοχή της Αδριατικής

Διασυνοριακή διαχείριση παροχής πόσιμου νερού

- Ιστορική εξέλιξη διασυνοριακών συστημάτων παροχής πόσιμου νερού σε εθνικό επίπεδο
- Πρωτόκολλα παροχής πόσιμου νερού συμπεριλαμβανομένων των εξής θεμάτων: προγραμματισμός, σχεδιασμός, λειτουργία, συντήρηση, χρηματοδότηση, ποιότητα νερού, διαχείριση εκτάκτων αναγκών, διακυβέρνηση
- Οικονομική διαχείριση διασυνοριακών συστημάτων παροχής πόσιμου νερού
- Κατευθυντήριες οδηγίες προγραμματισμού σε μακροπρόθεσμο επίπεδο
- Εφαρμοζόμενες πρακτικές
- Ανάλυση και αποτελέσματα εφαρμογής των πρωτοκόλλων

Πιλοτικές Εφαρμογές

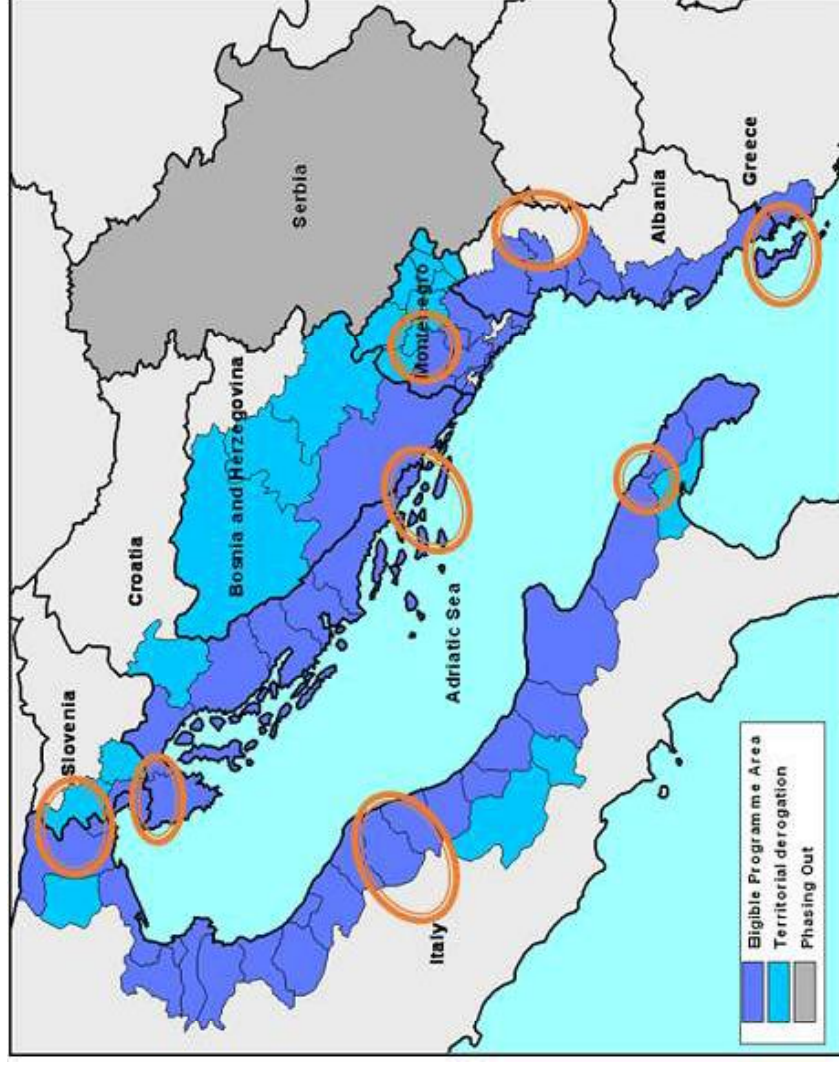
- Οδηγός καθοδήγησης για την προετοιμασία πιλοτικών δράσεων
- Η κατάσταση πριν και μετά την εφαρμογή πιλοτικών δράσεων
- Αναφορά αποτελεσμάτων εφαρμογής πιλοτικών δράσεων
- Lessons Learnt



Βασικές εκροές & αποτελέσματα

Χαρακτηριστικά κλιματικής αλλαγής & διαθεσιμότητα υδατικών πόρων

- Συλλογή δεδομένων (χαρακτηριστικά κλιματικής αλλαγής, μελλοντική προσομοίωση) (1961-σήμερα)
- Αναλυτικά δεδομένα στις πιλοτικές περιοχές (επιπτώσεις της κλιματικής αλλαγής στην διαθεσιμότητα και ποιότητα των υδατικών πόρων)
- Ανάλυση Θερμοκρασίας και Βροχόπτωσης
- Βάση δεδομένων
αποτελεσμάτων σε εθνικό,
περιφερειακό και τοπικό
επίπεδο



Εμπλεκόμενες χώρες & πιλοτικές περιοχές



Βασικές εκροές & αποτελέσματα

Χαρακτηριστικά κλιματικής αλλαγής & διαθεσιμότητα υδατικών πόρων

Βασικά συμπεράσματα:

- Αύξηση θερμοκρασίας σε όλες τις χώρες. Σε χώρες όπως Σλοβενία, Κροατία, ΒiH και Μοντενέγκρο παρατηρείται αύξηση και μείωση.
- Επίπεδα βροχόπτωσης διαφέρουν από χώρα σε χώρα (εποχή, περιοχή της χώρας, περίοδος ανάλυσης κλπ). Σε χώρες όπως Αλβανία, Σερβία και Ελλάδα προβλέπεται μείωση

SRES scenarios - Ειδική Αναφορά Σεναρίων Εκπομπών (Συμφωνία Πλαίσιο των Ηνωμένων Εθνών για την Κλιματική Αλλαγή, UNFCCC) & climate simulation models

Σλοβενία: A1T, A1FI, A1B, A2, B1 and B2

Κροατία, Σερβία, ΒiH και Μοντενέγκρο: A1B και A2
Ελλάδα: A1B

Ιταλία και Αλβανία: υπό καθορισμό

Βασικές εκροές & αποτελέσματα

Ανάλυση ποιότητας υδάτων & τάσεις

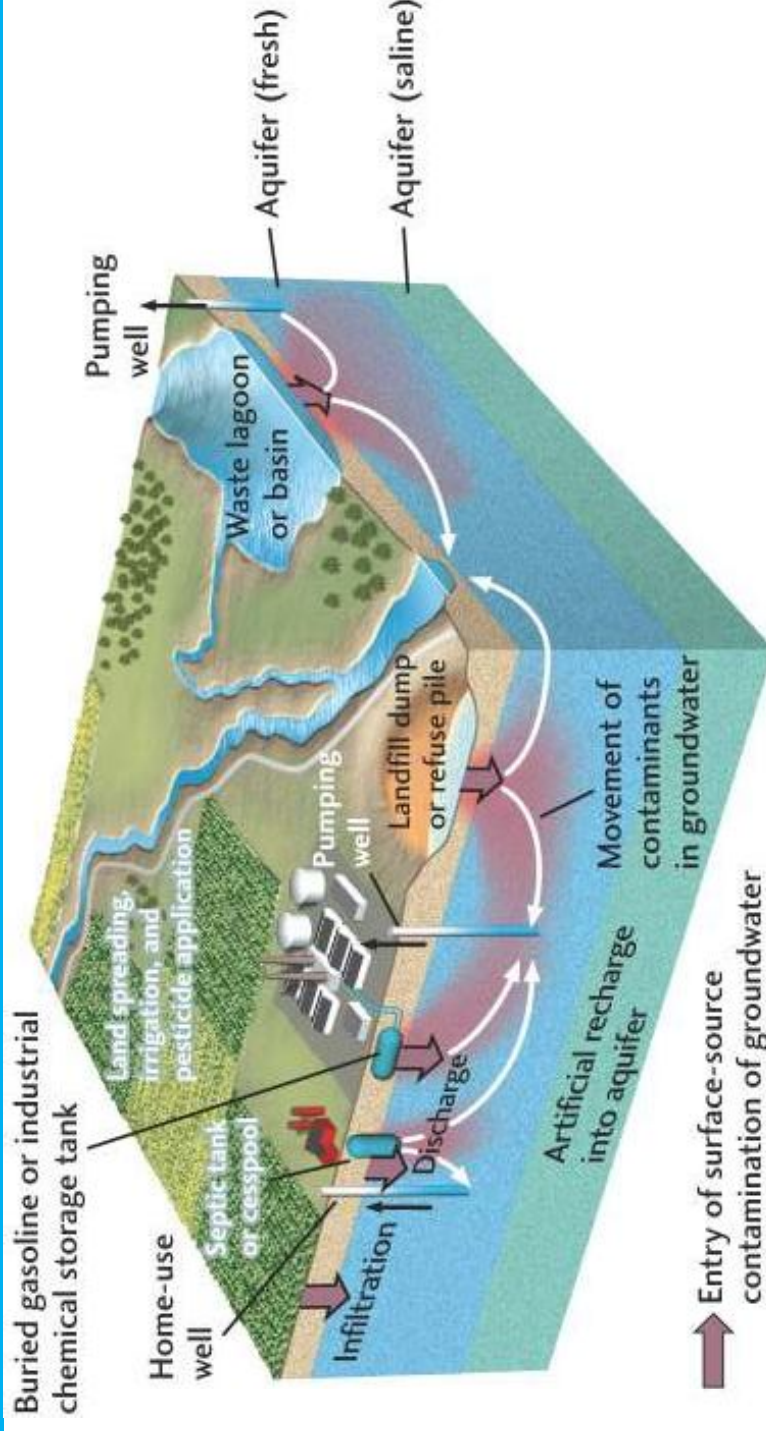
- Προσδιορισμός σημερινών χρήσεων γης
- Επιπτώσεις στην ποιότητα και ποσότητα των υδάτων
- Τάσεις για την ποιότητα των υδάτων
- Μελλοντική ασφάλεια υδάτων σε σχέση με τις αλλαγές χρήσεων γης
- Υφαλμύρωση υπόγειων υδροφορέων και βελτίωση της ποιότητας του πόσιμου νερού
- Επιπτώσεις της κλιματικής αλλαγής στους ανανεώσιμους υδατικούς πόρους
- Αξιολόγηση της ζήτησης του νερού
- Υπολογισμός του δείκτη αξιοποίησης του νερού



Βασικές εκροές & αποτελέσματα Ανάλυση ποιότητας υδάτων & τάσεις

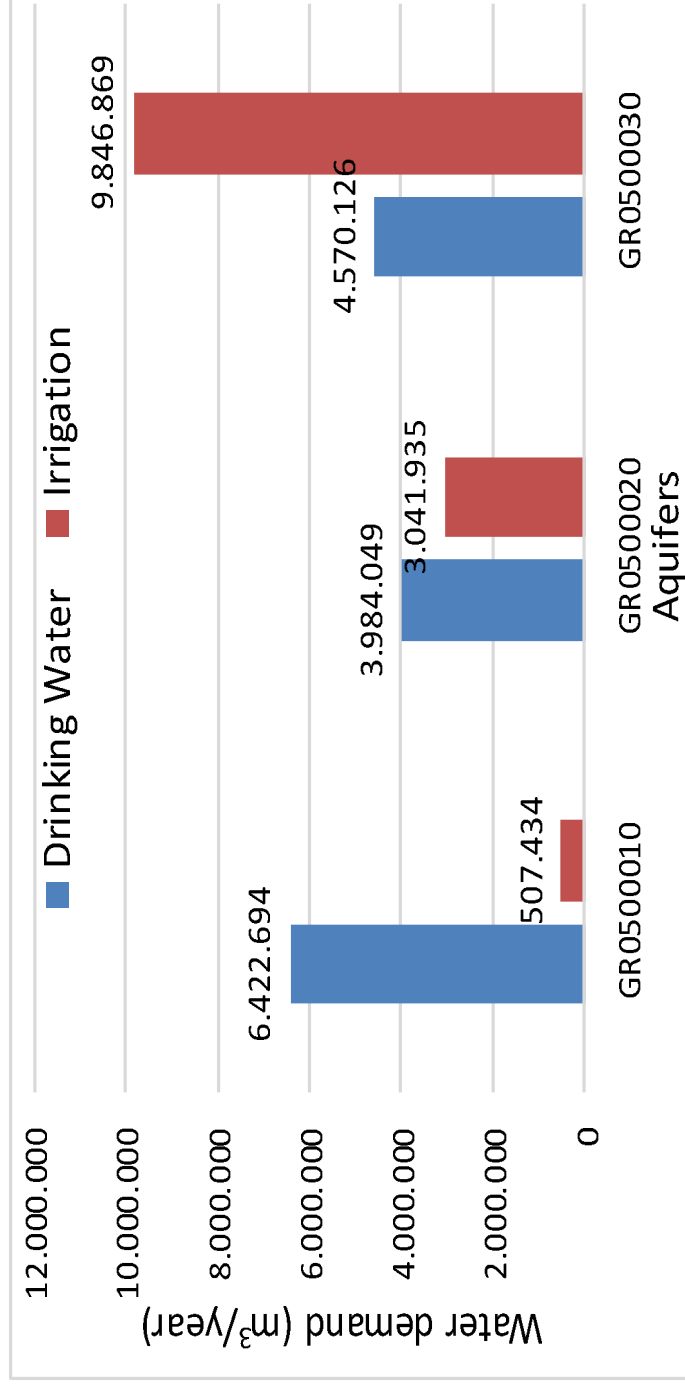
ΠΟΙΟΤΗΤΑ
ΕΠΙΦΑΝΕΙΑΚΩΝ
ΥΔΑΤΩΝ

ΕΠΙΠΤΩΣΕΙΣ ΤΩΝ
ΧΡΗΣΕΩΝ ΓΗΣ ΣΤΗΝ
ΠΟΙΟΤΗΤΑ ΤΟΥ ΝΕΡΟΥ



- Ισχυρή σύνδεση μεταξύ της χρήσης γης και της ρύπανσης των υδατικών πόρων
- Βιβλιογραφία - Έμφαση στην αγροτική παραγωγή και στη διαχείριση δασών

Βασικές εκροές & αποτελέσματα στην Κέρκυρα



3 Υδροφορείς στο νησί της Κέρκυρας (μέσες τιμές 1990-2010)

- ❑ Δεν υπάρχουν στοιχεία για τον καθορισμό των επιπτώσεων κλιματικής αλλαγής στους υδατικούς πόρους
- ❑ Διακυμάνσεις της ζήτησης νερού και της εισροής του στους 3 υδροφορείς από -25% σε +25% με βήμα 5%
- ❑ 3 υδροφορείς ικανοποιητικής χημικής κατάστασης

- ❑ Υψηλές συγκεντρώσεις θεικού και νιτρικού αμμωνίου
- ❑ Στις παράκτιες περιοχές υψηλές τιμές χλωρίου (υφαλμύρωση υδροφορέα)
- ❑ Ζήτηση νερού για άρδευση 47% (πόσιμο νερό 53%)

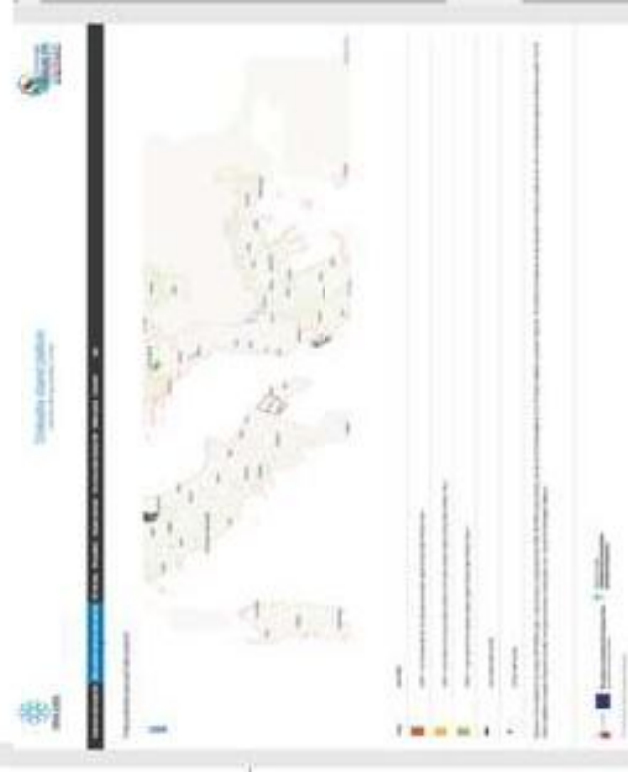
Βασικές εκροές & αποτελέσματα

Ιστορική ανάπτυξη διασυνοριακών συστημάτων διαχείρισης υδατικών πόρων



GIS system (web based)
<http://drinkadria.fgg.uni-lj.si>

- ☐ GIS σε διασυνοριακό επίπεδο
- ☐ Ζώνες προστασίας
- ☐ Πιλοτικές περιοχές
- ☐ Επιτήρηση
- ☐ Αποθήκη υλικών
- ☐ DSS για τη μείωση του Μη Ανταποδοτικού Νερού
- ☐ Λειτουργικά πρότυπα
- ☐ Σχετικά έργα



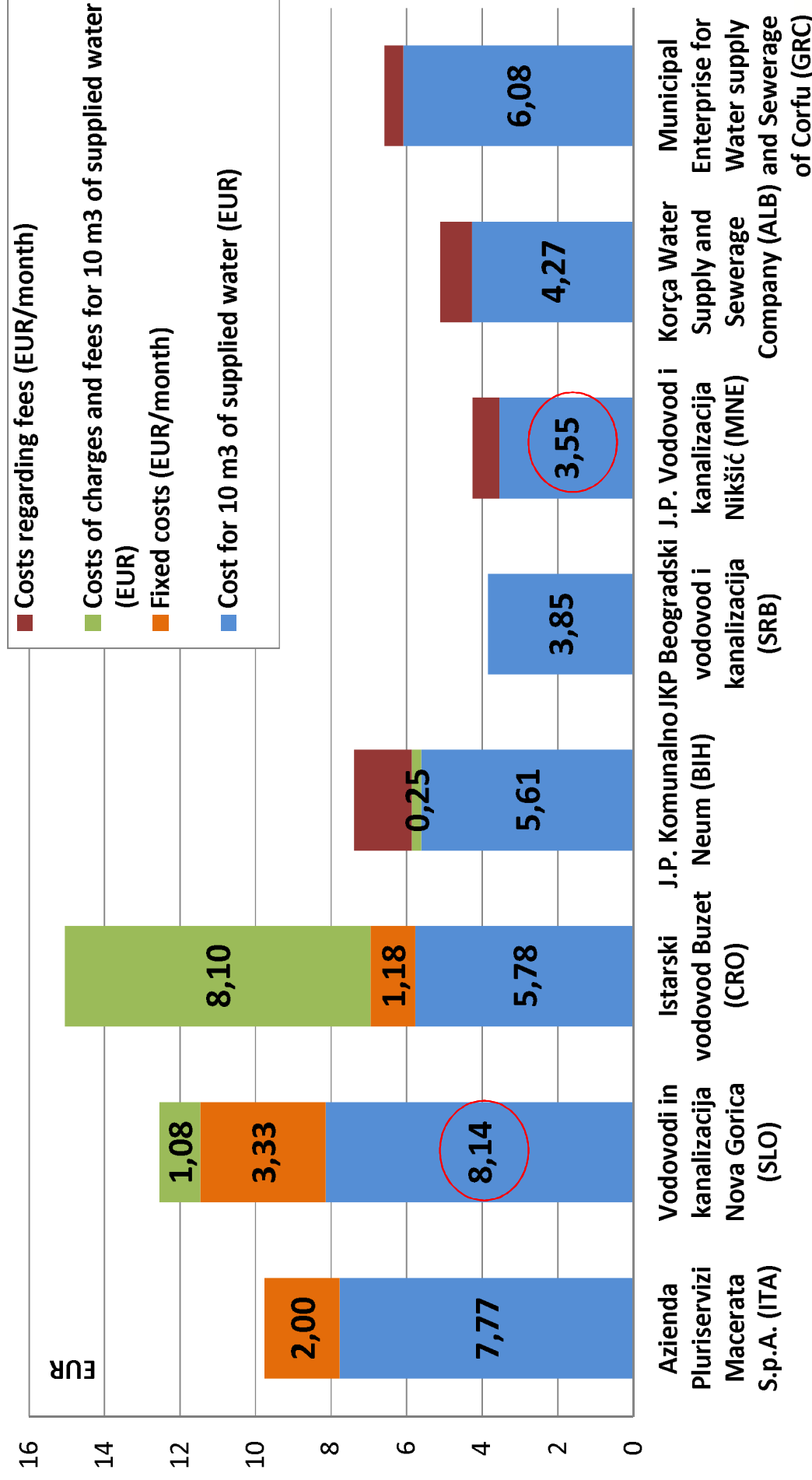
CBWSS	Active WSS	Inactive WSS	Potential WSS
SLO-IT	4	2	2
SLO-CRO	7	2	5
CRO-BIH	6	0	0
CRO-MNG	1	0	0
ALB-GRC	0	0	1
ALB-ITA	0	0	1

Κοινά χαρακτηριστικά μεταξύ των εμπλεκόμενων περιοχών

Βασικές εκροές & αποτελέσματα

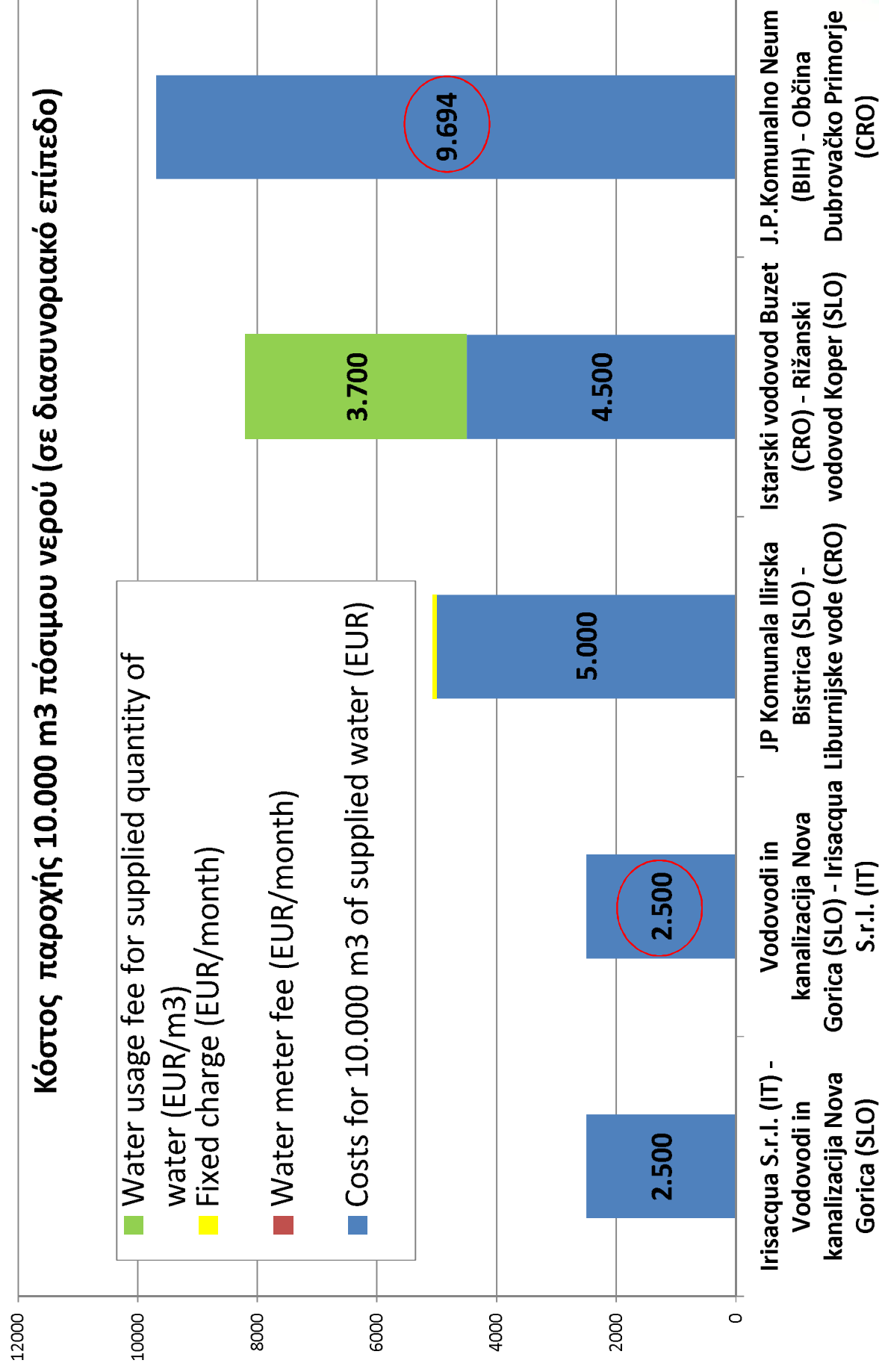
Πρωτόκολλα και διαδικασίες

Κόστος παροχής 10 m3 πόσιμου νερού



Βασικές εκροές & αποτελέσματα

Πρωτόκολλα και διαδικασίες



Πιλοτικές δράσεις

Οργανισμός	Πόλη	Χώρα	Κατηγορία
CATO	Trieste	Ιταλία	Απώλειες νερού
Veritas	Venezia	Ιταλία	Απώλειες νερού; Ποιότητα νερού
ATO3 Marche	Macerata	Ιταλία	Ποσότητα, ποιότητα νερού
CNR	Bari	Ιταλία	Ποσότητα, ποιότητα νερού
Water Utility Nova Gorica	Nova Gorica	Σλοβενία	Απώλειες νερού
Water Utility Istria	Buzet	Κροατία	Απώλειες νερού
Water Utility Neum and Hydro Engineering	Neum and Sarajevo	Βοσνία κ Ερζεγοβίνη	Απώλειες νερού
Public Utility Niksic	Niskic	Μοντενέγκρο	Απώλειες νερού
Water Utility Corfu	Corfu	Ελλάδα	Απώλειες νερού

“Το Drinkadria για την Ελλάδα ”: Μία μοναδική ευκαιρία

Φορείς/ Δικαιούχοι	Ενέργειες / Αποτελέσματα	Π/Υ (€)
Περιφέρεια Ιονίων Νήσων	Κεφαλαιοποίηση των αποτελεσμάτων του έργου σε περιφερειακό και εθνικό επίπεδο Διαμόρφωση πολιτικής	190.000
Δημοτική Επιχείρηση Ύδρευσης και Αποχέτευσης Κέρκυρας	Προμήθεια και εγκατάσταση ταχυμετρικών υδρομετρητών Αποτελεσματική καταγραφή σε όσο το δυνατόν μεγαλύτερο εύρος λειτουργίας με αποτέλεσμα την δίκαιη τιμολόγηση και τη μείωση της διαφοράς μεταξύ τιμολογούμενου και ατιμολόγητου νερού	

“Το Drinkadria για την Ελλάδα ”: Μία μοναδική ευκαιρία

Το Εργαστήριο Υδρομηχανικής & Περιβαλλοντικής Τεχνικής – Ερευνητική Ομάδα Αν. Καθ. Β. Κανακούδη

Εξοπλισμός (SOFTWARE / ΕΡΓΑΣΤΗΡΙΑΚΕΣ ΣΥΣΚΕΥΕΣ)		Εργαστήριο Υδρομηχανικής & Περιβαλλοντικής Τεχνικής		Εργαστήριο Υδρομηχανικής & Περιβαλλοντικής Τεχνικής	
WB/PI-calcUTH®, WBEasyCalc (Water Audit Tools)	Εργαστήριο Υδρομηχανικής & Περιβαλλοντικής Τεχνικής	Εργαστήριο Υδρομηχανικής & Περιβαλλοντικής Τεχνικής	Εργαστήριο Υδρομηχανικής & Περιβαλλοντικής Τεχνικής	Εργαστήριο Υδρομηχανικής & Περιβαλλοντικής Τεχνικής	Εργαστήριο Υδρομηχανικής & Περιβαλλοντικής Τεχνικής
waterGEMS V8i, EPANET & EPANET2 (λογισμικά προσομοίωσης υδραυλικής λειτουργίας δικτύων)	Εργαστήριο Υδρομηχανικής & Περιβαλλοντικής Τεχνικής	Εργαστήριο Υδρομηχανικής & Περιβαλλοντικής Τεχνικής	Εργαστήριο Υδρομηχανικής & Περιβαλλοντικής Τεχνικής	Εργαστήριο Υδρομηχανικής & Περιβαλλοντικής Τεχνικής	Εργαστήριο Υδρομηχανικής & Περιβαλλοντικής Τεχνικής

Εξοπλισμός (SOFTWARE / ΕΡΓΑΣΤΗΡΙΑΚΕΣ ΣΥΣΚΕΥΕΣ)

- WB/PI-calcUTH®, WBEasyCalc (Water Audit Tools)
- waterGEMS V8i, EPANET & EPANET2 (λογισμικά προσομοίωσης υδραυλικής λειτουργίας δικτύων)

Επιστημονικές περιοχές δραστηριοποίησης

- Αξιολόγηση Επιπέδου Λειτουργίας Δικτύων Ύδρευσης
- Ανάπτυξη Μοντέλων Προσομοίωσης Υδραυλικής Λειτουργίας Δικτύων Ύδρευσης
- Μείωση Μη Ανταποδοτικού Νερού και απωλειών νερού στα Δίκτυα Ύδρευσης
- Ανάλυση Τιμολογιακής Πολιτικής & Ανάπτυξη νέας Τιμολογιακής Πολιτικής Αστικού Νερού
- Ανάλυση Δυνατότητας Ανάκτησης Ενέργειας με την χρήση Μικροτουρμπινών
- Σύνταξη Σχεδίων Ασφάλειας Νερού για την προστασία της ανθρώπινης υγείας και την εξασφάλιση ποιότητας πόσιμου νερού

ΕΡΕΥΝΗΤΙΚΑ ΕΡΓΑ & ΔΗΜΟΣΙΕΥΣΕΙΣ

- 11 Συγχρηματοδοτούμενα Έργα από ΕΕ διαχείρισης υδατικών πόρων, διαχείρισης δικτύων ύδρευσης και απωλειών νερού και αξιολόγησης των περιβαλλοντικών επιπτώσεων
- 10 έργα Προσομοίωσης Υδραυλικής Λειτουργίας δικτύων ύδρευσης, αξιολόγησης του επιπέδου λειτουργίας, αξιολόγησης με την χρήση των Δεικτών Απόδοσης
- 150 επιστημονικές δημοσιεύσεις

http://www.researchgate.net/profile/Vassilis_Kanakoudis?ev=hdr_xprf



UNIVERSITY OF THESSALY



DRINKADRIA – FB15 & FB16 1st Capitalization Meeting – Κέρκυρα 21.09.2015

“Το Drinkadria για την Ελλάδα ”: Μία μοναδική ευκαιρία

Φορείς/ Δικαιούχοι	Ενέργειες / Αποτελέσματα	Π/Υ (€)
Πανεπιστήμιο Θεσσαλίας	<p>Επιστημονική και τεχνική υποστήριξη στην Περιφέρεια Ιονίων Νήσων και στην ΔΕΥΑ Κέρκυρας</p> <ul style="list-style-type: none"> • Σχέδιο Επικοινωνίας • Δράσεις Διάχυσης Αποτελεσμάτων Έργου • 3 Τρίπτυχα και Εκπαιδευτικό Υλικό • Layman’s Report • Επιστημονικές Εργασίες / Άρθρα • Σχέδιο Κεφαλαιοποίησης & Αειφορικής Διαχείρισης • Πλατφόρμα ανταλλαγής εμπειριών και καλών πρακτικών σε διακρατικό/διασυνοριακό/ διαπεριφερειακό επίπεδο • Χαρακτηριστικά Κλίματος και Κλιματικής Αλλαγής σε Περιφερειακό επίπεδο, υφιστάμενες και μελλοντικές επισφάλειες/απειλές • Πρωτόκολλο παρακολούθησης και διαδικασιών για την αποδοτική & αποτελεσματική παροχή νερού μέσω διασυνοριακών υδροδοτικών συστημάτων/υδραγωγείων • Μεθοδολογία και μοντέλο οικονομικής αποτίμησης/τιμολόγησης πόσιμου νερού 	334.000



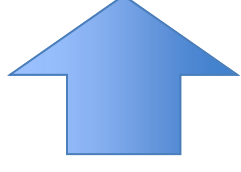
Συμπεράσματα

- Κλιματική αλλαγή και διαθεσιμότητα υδατικών πόρων στην Αδριατική
- Βάση δεδομένων ανάλυσης ποιότητας νερού και μελλοντικές τάσεις
- Ιστορικά δεδομένα συστημάτων διανομής πόσιμου νερού
- Βάση δεδομένων διαδικασιών και πρωτοκόλλων, οικονομικά μοντέλα διαχείρισης
- Web based GIS πλατφόρμα
- Μεθοδολογίες, εργαλεία, τεχνικές για τις πιλοτικές δράσεις



Αποτελεσματικό Εταιρικό
Σχήμα

- ☐ Ερευνητικοί Οργανισμοί... σύγχρονη τεχνολογία
- ☐ Εταιρίες Ύδρευσης... εμπειρία στη διαχείριση υδατικών πόρων και στην διανομή πόσιμου νερού
- ☐ Περιφερειακοί Οργανισμοί... κεφαλαιοποίηση των αποτελεσμάτων του έργου και διαμόρφωση πολιτικής



Μείωση ΜΗ
Ανταποδοτικού
Νερού





Αξία Νερού

www.drinkadria.eu



Κόστος Νερού



Τιμή Νερού

Ευχαριστώ!!

Αν.Καθηγητής Βασίλης Κανακούδης, bkanakoud@civ.uth.gr
Αναστασία Παπαδοπούλου, anrapadop@civ.uth.gr
Πανεπιστήμιο Θεσσαλίας, Τμήμα Πολιτικών Μηχανικών
Εργαστήριο Υδρομηχανικής και Περιβαλλοντικής Τεχνικής

Let's grow up together



The project is co-funded by the European Union,
Instrument for Pre-Accession Assistance



ΔΕΛΤΙΟ ΤΥΠΟΥ

Η Περιφέρεια Ιονίων Νήσων δια του Περιφερειακού Ταμείου Ανάπτυξης Ιονίων Νήσων και το Πανεπιστήμιο Θεσσαλίας συμμετέχουν στην υλοποίηση του έργου **DRINKADRIA, "Networking for Drinking Water Supply in Adriatic Region"** (Διασυνοριακή Συνεργασία για τη διαχείριση πόσιμου νερού στην περιοχή της Αδριατικής) από τον Νοέμβριο του 2013. Το έργο DRINKADRIA υλοποιείται στο πλαίσιο του μέρους του Προγράμματος Διασυνοριακής Συνεργασίας (ΜΠΒ) μεταξύ Ιταλίας, Σλοβενίας, Κροατίας, Βοσνίας & Ερζεγοβίνης, Μαυροβουνίου, Αλβανίας, Σερβίας και Ελλάδας και τη συμμετοχή δεκαεπτά εταίρων. Από την Ελλάδα συμμετέχουν η Περιφέρεια Ιονίων Νήσων δια του Περιφερειακού Ταμείου Ανάπτυξης Ιονίων Νήσων και το Πανεπιστήμιο Θεσσαλίας, ενώ συνεργαζόμενος φορέας είναι η Δημοτική Επιχείρηση Ύδρευσης και Αποχέτευσης Κέρκυρας.

Το έργο **DRINKADRIA** (www.drinkadria.eu) αφορά στην καθημερινή διαχείριση συστημάτων παροχής νερού ύδρευσης στον πληθυσμό της περιοχής της Αδριατικής. Στοχεύει στην ολοκληρωμένη διαχείριση των διασυνοριακών συστημάτων παροχής νερού με έμφαση στην αιφροδική μακροπρόθεση ζήτηση νερού και διαθεσιμότητα των υδατικών πόρων και στην αποδοτικότητα των συστημάτων ύδρευσης. Η διαχείριση των διασυνοριακών υδατικών πόρων περιλαμβάνει: την ανάπτυξη μιας βάσης κλιματικών δεδομένων και δεδομένων κλιματικής αλλαγής, τον προσδιορισμό των υφιστάμενων και μελλοντικών κινδύνων για την διαθεσιμότητα των υδατικών πόρων με έμφαση στην ύδρευση, τον καθορισμό των αιτιών για την υποβάθμιση της ποιότητας του πόσιμου νερού και την ανάπτυξη κοινών οδηγιών και πρωτοκόλλων για την προστασία και την αποδοτική διαχείριση των διασυνοριακών υδατικών πόρων.

Στο πλαίσιο υλοποίησης των δράσεων του εν λόγω έργου, η Περιφέρεια Ιονίων Νήσων δια του Περιφερειακού Ταμείου Ανάπτυξης Ιονίων Νήσων σε συνεργασία με το Πανεπιστήμιο Θεσσαλίας, διοργανώνει την **1η Συνάντηση Κεφαλαιοποίησης των Αποτελεσμάτων του έργου DRINKADRIA**, την **Δευτέρα 21 Σεπτεμβρίου 2015** και ώρα έναρξης **17.00**, στην Κέρκυρα, στο Φαληράκι (Πύλη Αγίου Νικολάου, 1ος όροφος).

Παράλληλα, σε συνεργασία με το Πανεπιστήμιο Θεσσαλίας, η Περιφέρεια Ιονίων Νήσων δια του Περιφερειακού Ταμείου Ανάπτυξης Ιονίων Νήσων, διοργανώνει την **1η Τεχνική Συνάντηση με τίτλο «Διαχείριση Μη Ανταποδοτικού Νερού» (Non-Revenue Water)**, την **Τρίτη 22 Σεπτεμβρίου 2015** και ώρα έναρξης **09.30**, στην Κέρκυρα, στο Φαληράκι (Πύλη Αγίου Νικολάου, 1ος όροφος).

Το πρόγραμμα των συναντήσεων περιλαμβάνει:

«Κεφαλαιοποίηση των Αποτελεσμάτων του έργου DRINKADRIA»

(1st Capitalization Meeting)

Δευτέρα, 21 Σεπτεμβρίου 2015

17:00 - 17:15

Έναρξη - Δηλώσεις συμμετοχής

17:15 - 17:30

Παρουσίαση του έργου Drinkadria - Αναστασία Παπαδοπούλου, Πανεπιστήμιο Θεσσαλίας, Μέλος της Ομάδας Έργου

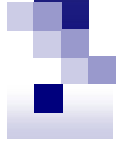


- 17:30 - 17:45** Το έργο DRINKADRIA ως εφελτήριο διασύνδεσης των Εταιρειών Ύδρευσης - Αν. Καθηγητής Βασίλης Κανακούδης, Επιστημονικώς Υπεύθυνος και Επικεφαλής Ομάδας Έργου Παν. Θεσσαλίας
- 17:45 - 18:15** Κλιματική Αλλαγή και επιπτώσεις της στη διαθεσιμότητα και στην ποιότητα των αποθεμάτων των υδατικών πόρων - Δρ. Σταυρούλα Τσιτσιφλή, Πανεπιστήμιο Θεσσαλίας, Μέλος της Ομάδας Έργου Παν. Θεσσαλίας
- 18:15 - 18:30** Η διαχείριση υδατικών πόρων στο νησί της Κέρκυρας - Δρ. Μιχάλης Λαγκαδάς, Προϊστάμενος Διεύθυνσης Υδάτων Ιονίου, Αποκεντρωμένης Διοίκησης Πελοποννήσου, Δ. Ελλάδας και Ιονίων
- 18:30 - 19:00** Παρουσίαση των πιλοτικών προγραμμάτων του έργου Drinkadria- Δρ. Σταυρούλα Τσιτσιφλή, Πανεπιστήμιο Θεσσαλίας, Μέλος της Ομάδας Έργου Παν. Θεσσαλίας
- 19:00 - 19:30** Στρογγυλό Τραπέζι
- 19.30** Λήξη- Δείπνο

1η Τεχνική Συνάντηση-«Διαχείριση Μη Ανταποδοτικού Νερού» (Non-Revenue Water)

Τρίτη, 22 Σεπτεμβρίου 2015

- 08:30 - 09:00** Έναρξη - Δηλώσεις συμμετοχής
- 09:00 - 09:45** Ολοκληρωμένη μεθοδολογία διαχείρισης δικτύων ύδρευσης και μείωσης του μη ανταποδοτικού νερού - Αναλύοντας το υδατικό ισοζύγιο ενός δικτύου ύδρευσης - Δρ. Σταυρούλα Τσιτσιφλή, Πανεπιστήμιο Θεσσαλίας, Μέλος της Ομάδας Έργου
- 09:45 - 10:30** Μοντελοποίηση δικτύων ύδρευσης, ανάπτυξη DMAs και εφαρμογή προγραμμάτων διαχείρισης πίεσης - Κωνσταντίνος Γκονέλας, Πανεπιστήμιο Θεσσαλίας
- 10:30 - 11:00** Η εμπειρία της ΔΕΥΑ Κοζάνης- Χάρης Κουζιάκης, Προϊστάμενος Μελετών ΔΕΥΑ Κοζάνης
- 11:00 - 11.30** Διάλειμμα για καφέ
- 11:30 - 12:00** Εύρεση του σημείου ισορροπίας της αποδοτικής και της ανταποδοτικής χρήσης του νερού σε ένα αστικό δίκτυο - Αν. Καθηγητής Βασίλης Κανακούδης Επιστημονικώς Υπεύθυνος και Επικεφαλής Ομάδας Έργου & Κωνσταντίνος Γκονέλας, Πανεπιστήμιο Θεσσαλίας
- 12:00 - 12:30** Δυνατότητες ανάκτησης ενέργειας στα δίκτυα ύδρευσης με χρήση μικρο-τουρμπινών - Αν. Καθηγητής Βασίλης Κανακούδης Επιστημονικώς Υπεύθυνος και Επικεφαλής Ομάδας Έργου & Μενέλαος Πατέλης, Πανεπιστήμιο Θεσσαλίας
- 12:30 - 13:00** Στρογγυλό Τραπέζι
- 13.30** Λήξη- Ελαφρύ Γεύμα



ΒΙΩΣΙΜΗ ΔΙΑΧΕΙΡΙΣΗ ΤΟΥ ΔΙΚΤΥΟΥ ΥΔΡΕΥΣΗΣ Η ΕΜΠΕΙΡΙΑ ΤΗΣ ΔΕΥΑΚ

Χάρης Κουζιάκης, Πολιτικός Μηχανικός Msc

Προϊστάμενος του τμήματος μελετών, εκτέλεσης και προγραμματισμού έργων
ύδρευσης αποχέτευσης





Waterloss: Management of water losses in a drinking water supply system

- Πιλοτική εφαρμογή των συμπερασμάτων του προγράμματος. Ως περιοχή μελέτης επιλέχθηκε το δίκτυο παροχής νερού στην πόλη της Κοζάνης





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	<p>Αποστολή: Έκτακτη αντιμετώπιση θέματος ΕΜΠΕΔΩΣΗ των υφιστάμενων δικτύων</p>
	<p>Οριστική επίλυση του προβλήματος ΕΠΕΝΔΥΣΗ στην προστασία του νερού</p>
	<p>Συμβολή στην προστασία του νερού Αναγκαίως επένδυση στην προστασία</p>
	<p>Επένδυση στην προστασία του νερού Επένδυση στην προστασία του νερού</p>
	<p>Επένδυση στην προστασία του νερού Επένδυση στην προστασία του νερού</p>
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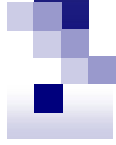












Η κατάσταση στα αναπτυσσόμενα δίκτυα ύδρευσης

- Μοντέλα του δικτύου επικαιροποιημένα καθημερινά μέσω SCADA που λειτουργεί πλήρως.
- Μετρητές AMR σε καίρια σημεία του δικτύου για καθημερινή καταγραφή του προφίλ των καταναλώσεων.
- Σύνδεση υδραυλικού μοντέλου με GIS.
- Πρόβλεψη της ζήτησης κάθε επόμενο 24ωρο και βελτιστοποίηση λειτουργίας αντλιοστασίων.
- Χαμηλές πιέσεις λειτουργίας.
- Έξυπνοι μετρητές.
- Το ποσοστό του μη ανταποδοτικού νερού είναι κάτω από 20%.



Η κατάσταση στα δίκτυα ύδρευσης της Ελλάδας

- Υδραυλικά μοντέλα που δεν ανταποκρίνονται στη σημερινή κατάσταση του δικτύου.
- Η διαχείριση της πίεσης γίνεται με την λογική του να φτάνει το νερό στον καταναλωτή.
- Δεν υπάρχουν υποζώνες καταγραφής και διαχείρισης του δικτύου.
- Δεν υπάρχει ενιαία βάση δεδομένων.
- Υψηλές πιέσεις λειτουργίας.
- Το ποσοστό του μη ανταποδοτικού νερού είναι σε επίπεδα πάνω του 50%.
- Ελάχιστο προσωπικό

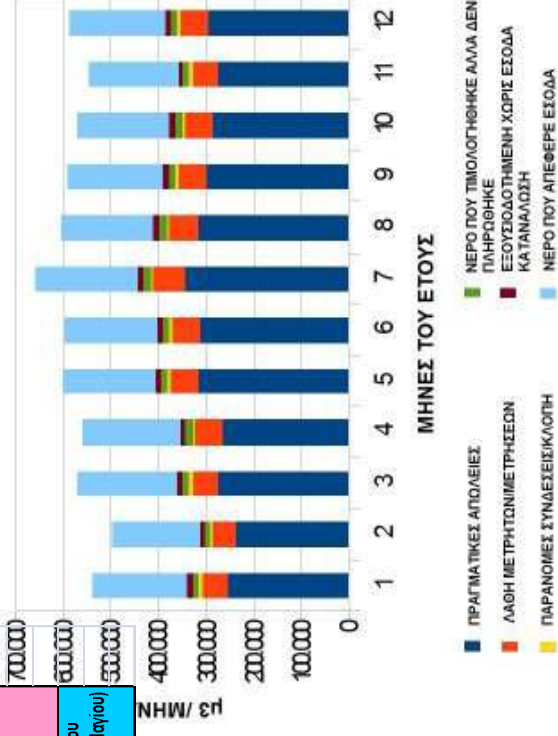


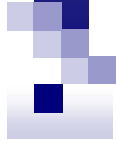
ΒΗΜΑ 1^ο: Το υδατικό ισοζύγιο

2^η τροποποίηση υδατικού ισοζυγίου

Εισερχόμενο Νερό στο δίκτυο (A3)	Εξουσιοδοτημένη Κατανάλωση (A14=A10-A13)	Τιμολογούμενη Εξουσιοδοτημένη Κατανάλωση (A10=A8+A9)	Τιμολογούμενη Μετρούμενη Κατανάλωση (A8)	Αναποδοτικό Νερό (A20=A8+A9)	Νερό που πωλείται και αποδίδει έσοδα (A24=A20-A23)
	Μη-Τιμολογούμενη Εξουσιοδοτημένη Κατανάλωση (A13=A11-A12)	Φαινόμενες Απώλειες (A18=A16-A17)	Τιμολογούμενη μη-Μετρούμενη (A9)	Μη Αναποδοτικό Νερό (NRW) (A21=A3-A20)	Νερό που δεν αποδίδει έσοδα A23
			Μη-Τιμολογούμενη Μετρούμενη Κατανάλωση (A11)		
			Μη-Τιμολογούμενη μη-Μετρούμενη Κατανάλωση (A12)		
Απώλειες Νερού (A15=A3-A14)	Πραγματικές Απώλειες (A19=A15-A18)	Λάθη Μετρήσεων / Μετρήσεων (A17)	Μη-Εξουσιοδοτημένη Κατανάλωση (A16)	Λογιστικό Μη Αναποδοτικό Νερό (A25=A21-A24)	Πραγματικές Απώλειες που αποδίδουν έσοδα (Διαφορά Παγίου) A25

ΜΗΝΙΑΙΟ ΥΔΑΤΙΚΟ ΙΣΟΖΥΓΙΟ 2011





ΒΗΜΑ 2^ο:

Ανάπτυξη μοντέλου προσομοίωσης της υδραυλικής λειτουργίας του συνόλου του δικτύου της ΔΕΥΑΚ με τη χρήση του λογισμικού WaterGEMS

Ανάπτυξη μοντέλου προσομοίωσης της υδραυλικής λειτουργίας του δικτύου της ΔΕΥΑΚ... ...απαιτούμενα δεδομένα

Τα δεδομένα που απαιτούνται για τη σύνταξη του υδραυλικού μοντέλου του δικτύου είναι:

- Οι συντεταγμένες και τα υψόμετρα των κόμβων
- Οι καταναλώσεις στους κόμβους
- Στοιχεία των αγωγών (κόμβος αρχής, κόμβος πέρατος, μήκος, διάμετρος, συντελεστής τραχύτητας)
- Στοιχεία δεξαμενών (υψόμετρα, χωρητικότητα, μέγιστη - ελάχιστη στάθμη)
- Καμπύλες παροχής – μανομετρικού ύψους για τις αντλίες που υπάρχουν στο δίκτυο
- Στοιχεία για δικλείδες ελέγχου ροής και περιορισμού της πίεσης στο δίκτυο
- Μοντέλο μεταβολής της ζήτησης στη διάρκεια του 24ωρου

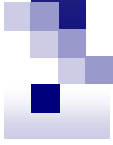
Ανάπτυξη μοντέλου προσομοίωσης της υδραυλικής λειτουργίας του δικτύου της ΔΕΥΑΚ... ...γεωμετρία του δικτύου

Η ΔΕΥΑΚ είχε ήδη:

- ✓Το μοντέλο του δικτύου σε ArcGIS
- ✓Το μοντέλο του δικτύου σε EPANET

Κατά τη νέα μελέτη:

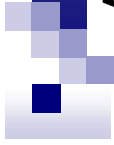
- ✓Επικαιροποιήθηκαν τα υπάρχοντα ψηφιακά - και όχι μόνο - υπόβαθρα της οριζοντιογραφίας του δικτύου
- ✓Ταυτοποιήθηκαν τα στοιχεία και αφού διορθώθηκαν αναντιστοιχίες με την πραγματικότητα, προέκυψε το τελικό οριζοντιογραφικό μοντέλο του δικτύου
- ✓Η εξαγωγή των υψομέτρων βασίστηκε σε υπάρχουσες αποτυπώσεις. Για τους απομακρυσμένους εξωαστικούς κόμβους χρησιμοποιήθηκε και η χωρασταθμική πληροφορία του Google Earth



Ανάπτυξη μοντέλου προσομοίωσης της υδραυλικής λειτουργίας του δικτύου της ΔΕΥΑΚ... ...στοιχεία λειτουργίας του δικτύου

Εισήχθησαν ως δεδομένα τα στοιχεία:

- των δεξαμενών, όπως ανώτατη και κατώτατη στάθμη, ωφέλιμος όγκος αποθήκευσης.
- του εισερχομένου νερού στο σύστημα από όλες τις πηγές.
- η συνδεσμολογία των κόμβων και ο καθορισμός των ανοιχτών και κλειστών δικλείδων στους κόμβους.
- οι θέσεις των υπάρχοντων συσκευών ρύθμισης της πίεσης όπως και των αντλιοστασίων.



Ανάπτυξη μοντέλου προσομοίωσης της υδραυλικής λειτουργίας του δικτύου της ΔΕΥΑΚ... ...η κατανομή των καταναλώσεων στο χώρο

Η ΔΕΥΑΚ είχε αποτυπωμένο (με GPS χειρός) το οριζοντιογραφικό στίγμα 27.666 υδρόμετρων, ενώ περίπου 250 υδρόμετρα δεν ήταν αποτυπωμένα

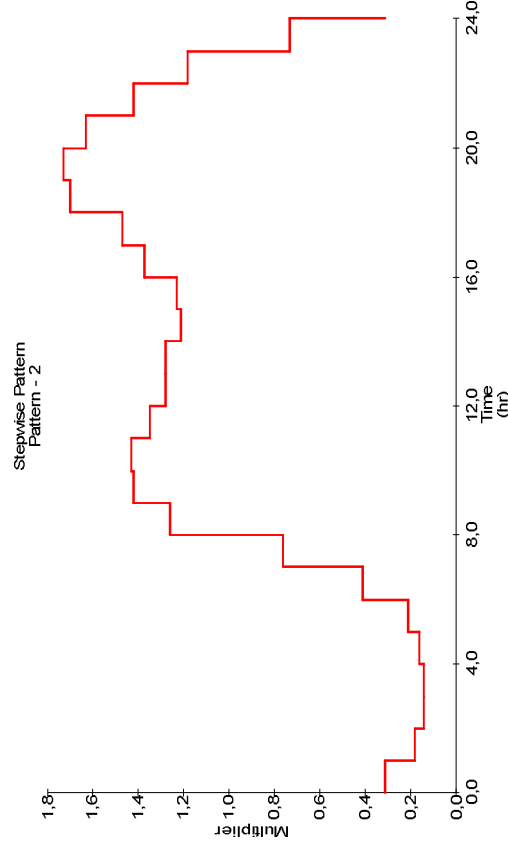
- Εισήχθησαν οι θέσεις των υδρομέτρων στο μοντέλο και η κατανάλωση οδηγήθηκε από τα υδρόμετρα στους κοντινότερους αγωγούς σε ευθεία απόσταση και από εκεί στον ανάντι και κατάντι κόμβο των αγωγών αυτών σε αναλογία μήκους.
- Οι καταναλώσεις των οικισμών τοποθετήθηκαν σημειακά.

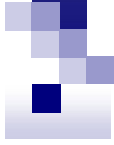


Ανάπτυξη μοντέλου προσομοίωσης της υδραυλικής λειτουργίας του δικτύου της ΔΕΥΑΚ... ...η χρονική κατανομή των καταναλώσεων

Οι χρονικές μεταβολές των καταναλώσεων οφείλονται στην εποχική, εβδομαδιαία και 24ωρη διακύμανση
Για την εξαγωγή ορθών ποσοτικών και ποιοτικών αποτελεσμάτων

- το δίκτυο επιλύθηκε για κάθε μήνα ξεχωριστά.
- δημιουργήθηκαν καμπύλες κατανάλωσης στη διάρκεια του 24ωρου βασισμένες στη διεθνή βιβλιογραφία, οι οποίες ταυτοποιήθηκαν και προσαρμόσθηκαν στα δεδομένα της ΔΕΥΑΚ.
- Οι καταναλώσεις χωρίστηκαν σε οικιακή (όπου συμπεριλαμβάνεται και η εμπορική, γιατί δεν καταγράφεται ξεχωριστά) και πραγματικές απώλειες.

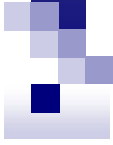




Ανάπτυξη μοντέλου προσομοίωσης της υδραυλικής λειτουργίας του δικτύου της ΔΕΥΑΚ... ...βαθμονόμηση και επαλήθευση

Μετά τη δημιουργία του μοντέλου ακολούθησε η προσπάθεια γεφύρωσης της αναντιστοιχίας των αποτελεσμάτων του μοντέλου με τις μετρήσεις πεδίου.

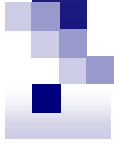
Επιλέχθηκαν 10 σημεία καταγραφής της πίεσης λειτουργίας και 3 σημεία μέτρησης παροχής. Εισήχθησαν τα δεδομένα των μετρήσεων στο λογισμικό και ακολούθησε η αυτόματη βαθμονόμηση



Ανάπτυξη μοντέλου προσομοίωσης της υδραυλικής λειτουργίας του δικτύου της ΔΕΥΑΚ... συμπεράσματα

Το νέο μοντέλο υδραυλικής λειτουργίας του δικτύου της ΔΕΥΑΚ:

- Ενημερώθηκε και επικαιροποιήθηκε με βάση τη σημερινή λειτουργία του δικτύου
- Μπορεί να συνδυαστεί με το υφιστάμενο μοντέλο ArcGIS έτσι ώστε η ενημέρωση του ενός λογισμικού να συγχρονίζεται με το δεύτερο.
- Μπορεί να συνδυαστεί με τα στοιχεία που λαμβάνονται από το SCADA, έτσι ώστε να βαθμονομείται αυτόματα σε καθημερινή βάση.
- Είναι δυνατόν να γίνουν δοκιμές με εφαρμογή μειωτών πίεσης
- Μπορεί να γίνει βελτιστοποίηση της λειτουργίας των αντλιοστασίων



ΒΗΜΑ 3^ο:

Διαμόρφωση Ζωνών Πίεσης και Στεγανών
Υποζωνών (DMAs-District Metered Areas)
του δικτύου της ΔΕΥΑΚ στην πόλη της
Κοζάνης

Διαμόρφωση DMAs του δικτύου της ΔΕΥΑΚ στην πόλη της Κοζάνης... ...οι υπάρχουσες στεγανές υποζώνες

Στο δίκτυο της ΔΕΥΑΚ υπάρχουν τρεις ζώνες πίεσης. Κατά την τοποθέτηση του συστήματος τηλεέλεγχου (SCADA) στο παρελθόν χωρίσθηκε το δίκτυο σε ζώνες παρακολούθησης. Στα σημεία εισόδου του νερού δημιουργήθηκαν περίπου 20 ΤΣΕ (τοπικοί σταθμοί ελέγχου) όπου παρακολουθούνταν τα μεγέθη της παροχής και της πίεσης του νερού.



Σήμερα από τις στεγανές υποζώνες που δημιουργήθηκαν παραμένουν διαμορφωμένες και αποκλεισμένες υδραυλικά δύο με τρεις. **Στην ουσία δηλαδή δεν υπάρχουν στεγανές υποζώνες.**



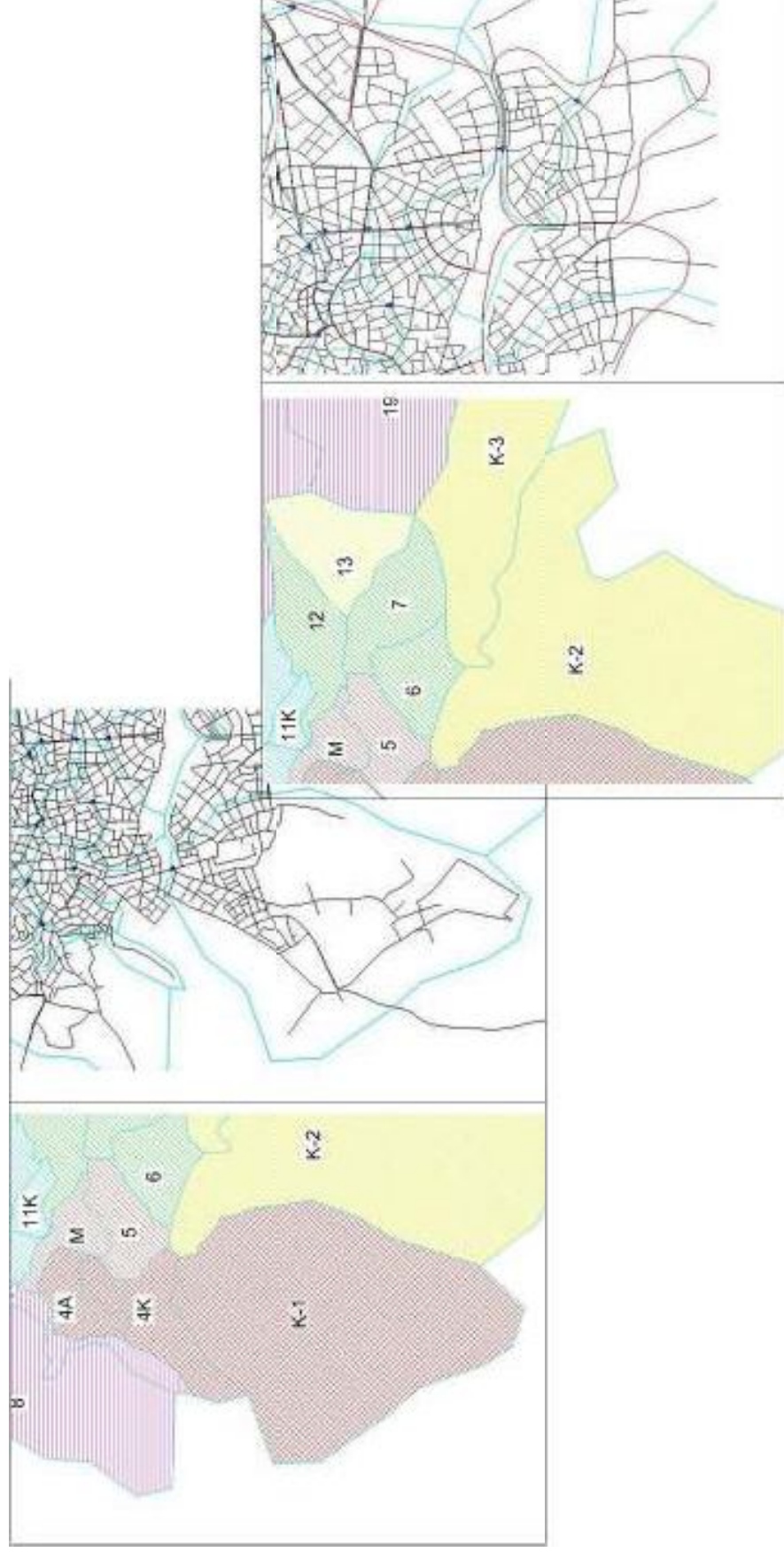
Διαμόρφωση DMAs του δικτύου της ΔΕΥΑΚ στην πόλη της Κοζάνης... ...οι προδιαγραφές υλοποίησης των DMAs

Η πιο σημαντική πτυχή στην σχεδίαση των DMAs είναι η διασφάλιση του επιθυμητού επιπέδου ποιότητας και ποσότητας παροχής νερού στους καταναλωτές.

Οι βασικοί παράγοντες που λαμβάνονται υπόψη είναι:

- ✓Το μέγεθος της περιοχής και ο αριθμός συνδέσεων των πελατών.
- ✓Το ανάγλυφο του εδάφους.
- ✓Ο τύπος στέγασης (πολυώροφα ή χαμηλά κτίρια).
- ✓Οι ιδιαίτερες κατά τόπου απαιτήσεις πίεσης.
- ✓Ικανότητα πυρόσβεσης.
- ✓Ποσοτικός στόχος μείωσης των διαρροών.
- ✓Υφιστάμενες υποδομές (βαλβίδες απομόνωσης).
- ✓Ιδανικά η περιοχή θα πρέπει να τροφοδοτείται από μια παροχή και να απομονώνεται υδραυλικά από το υπόλοιπο δίκτυο.
- ✓Μέσο μέγεθος μιας DMA είναι γενικά μεταξύ 1000 και 3000 συνδέσεων.
- ✓Υδραυλική αποδοτικότητα της προτεινόμενης υποζώνης.

Διαμόρφωση DMAs του δικτύου της ΔΕΥΑΚ στην πόλη της Κοζάνης... ...η υλοποίηση των 23 DMAs (1η και 2η ομάδα υποζωνών)

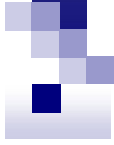




Διαμόρφωση DMAs του δικτύου της ΔΕΥΑΚ στην πόλη της Κοζάνης... ...συμπεράσματα

Η μείωση εισερχόμενου νερού σε %, σε $\mu\text{3}/24\text{h}$ και σε $\mu\text{3}/\text{έτος}$ σε επίπεδο DMA αλλά και συνόλου δικτύου.

	K-1	K-2	K-3	4A	4K	5	6	7	M	8	9	10
ΚΑΤΑΝΑΛΩΣΗ ΜΕ ΒΑΣΗ ΤΗΝ ΣΗΜΕΡΙΝΗ ΚΑΤΑΣΤΑΣΗ	1103	1029	532	1070	974	1477	734	927	1124	559	891	857
ΚΑΤΑΝΑΛΩΣΗ ($\mu\text{3}/24\text{h}$) ΜΕ ΒΑΣΗ ΤΗΝ ΔΙΑΜΟΡΦΩΣΗ ΝΕΩΝ DMAs	1079	1003	500	1026	934	1445	719	898	1097	596	866	875
ΕΞΟΙΚΟΝΟΜΗΣΗ ($\mu\text{3}/24\text{h}$)	23	26	32	44	39	32	15	28	27	-38	25	-17
ΕΞΟΙΚΟΝΟΜΗΣΗ ($\mu\text{3}/\text{έτος}$)	8556	9654	11841	16060	14381	11753	5537	10300	9873	-13786	9224	-6289
ΕΞΟΙΚΟΝΟΜΗΣΗ (%)	2,13	2,57	6,09	4,11	4,05	2,18	2,07	3,05	2,41	-6,76	2,84	-2,01
	11A	11K	12	13	14A	14K	15A	15K	16-17	18	19	ΣΥΝΟΛΟ
	877	560	1.581	699	341	453	216	255	999	541	81	17.880
	825	520	1.538	677	341	450	216	255	1.004	540	81	17.484
	52	41	43	22	0	4	-0	-0	-5	1	0	396
	18.885	14.929	15.845	8.118	11	1.376	-99	-84	-1.734	215	29	144.595
	5,90	7,30	2,75	3,18	0,01	0,83	-0,12	-0,09	-0,48	0,11	0,10	2,22



ΒΗΜΑ 4ο:

Μείωση του μη ανταποδοτικού νερού μέσω διαχείρισης της πίεσης με χρήση μειωτών πίεσης (PRVs).

Μείωση του Μη Ανταποδοτικού Νερού με την χρήση PRVs. ... οι θέσεις των PRVs στο δίκτυο

Εφαρμόστηκαν συσκευές μείωσης της πίεσης (Pressure Reducing Valves PRVs) στις βέλτιστες θέσεις των υποζωνών όπως προέκυψαν από δοκιμές στο μοντέλο





Μείωση του Μη Ανταποδοτικού Νερού με την χρήση PRVs. ... αποτελέσματα

ΕΞΟΙΚΟΝΟΜΗΣΗ ΜΕΤΑ ΤΗΝ ΕΦΑΡΜΟΓΗ PRVS																								
ΕΞΟΙΚΟΝΟΜΗΣΗ (μ3/ΕΤΟΣ)		K-1	K-2	K-3	4A	4K	5	6	7	M	8	9	10	11A	11K	12	13	14	14K	15	16-17	18	19	ΣΥΝΟΛΟ
PRV-28	250	38.354			47.347	37.620	52.935			48.559														224.818
PRV-33	300		79.938	48.019													74.350							202.308
PRV-30	200							35.375	50.384							69.959			15.304					155.719
PRV-36	200												23.411	28.313	14.705									81.734
PRV-24	200	11.687			14.939	10.654																		37.281
PRV-16	250		3.354	1.653																				5.007
PRV-23	230	23.513				24.469																		47.982
PRV-11	250							21.264	31.510															52.775
PRV-9	310	3.146																						3.146
PRV-17	240		22.502																					22.502
PRV-14	310																			22.666				22.666
PRV-34	180											37.536												37.536
PRV-6	200										33.109													33.109
PRV-20	200						99.488																	99.488
PRV-15	200							25.436																25.436
PRV-26	220												34.842											34.842
PRV-35	230														19.615									19.615
PRV-32	250																							19.615
																								23.206

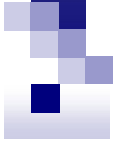
Η εξοικονόμηση σε μ3/έτος του εισερχόμενου νερού σε κάθε DMA, ύστερα από τις διαδοχικές εφαρμογές PRVs.

76.701 105.795 49.672 62.287 72.744 152.424 82.077 81.895 48.559 33.109 37.536 59.254 28.313 34.320 69.959 74.350 0 15.304 0 22.666 0 23.206 0 1.129.178

Μείωση του Μη Ανταποδοτικού Νερού με την χρήση PRVs ... συμπεράσματα

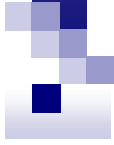
- Με την υλοποίηση των DMAs και την εισαγωγή 18 PRVs στο μοντέλο επιτεύχθηκε μείωση του εισερχόμενου νερού κατά 19,52% ή 1.129.178 μ3/έτος.
- Με την καθολική εφαρμογή διαχείρισης της πίεσης με μειωτές μεταβλητής πίεσης η μείωση σε εισερχόμενο νερό πιθανότατα θα υπερβεί το 30%.





Τα βήματα που έγιναν και αυτά που απομένουν

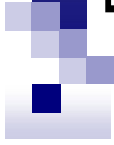
- ✓Υπολογισμός υδατικού ισοζυγίου του δικτύου.
- ✓Υπαρξη συστήματος τηλεμετρίας SCADA (αρκετοί σταθμοί).
- ✓Υπαρξη υδραυλικού μοντέλου (κατάλληλου για διαχείριση πίεσης).
- ✓Εκπόνηση μελέτης διαχείρισης της πίεσης.
- ✓Υπαρξη μετρητών AMR σε κατάλληλα σημεία του δικτύου (περίπου 500).
- ✓Εφαρμογή της διαχείρισης της πίεσης και άλλων πρακτικών μείωσης του μη τιμολογούμενου νερού.
- ✓Εκπαίδευση του προσωπικού.
- ✓Προσωπικό ειδικά για την οργάνωση και επίτευξη των παραπάνω



Γενικά συμπεράσματα

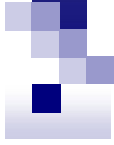


- ✓ Μέσω της διαχείρισης της πίεσης η μείωση σε εισερχόμενο νερό στο δίκτυο αναμένεται να κυμανθεί ίσως και πάνω από 30% ή 2.100.000 μ3 ετησίως.
- ✓ Το μεγαλύτερο ποσοστό της μείωσης αφορά απώλειες λόγω διαρροών και θραύσεων. Μικρό ποσοστό της μείωσης αφορά τα καταγραφόμενα μ3 από τους μετρητές.



Επόμενα βήματα στην πόλη της Κοζάνης και στις ΤΚ Αιανής και Κρόκου

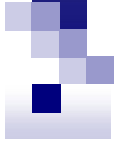
- ✓ Εφαρμογή στο πεδίο (πόλη Κοζάνης) του μοντέλου διαχείρισης
- ✓ Υπολογισμός υδατικού ισοζυγίου.
- ✓ Μοντελοποίηση του δικτύου.
- ✓ Μελέτη εφαρμογής διαχείρισης της πίεσης.
- ✓ Υλοποίηση διαχείρισης της πίεσης.



ΣΥΜΠΕΡΑΣΜΑ

Η εμπειρία της ΔΕΥΑΚ από τη συμμετοχή στο πρόγραμμα Waterloss και τη συνέχειά του κρίνεται απολύτως θετική αφού κατάφερε να ανταποκριθεί με επιτυχία στις απαιτήσεις ενός εξειδικευμένου ευρωπαϊκού προγράμματος και να αποκομίσει σημαντική εμπειρία λόγω της συνεργασίας με εταιρίες ύδρευσης μεγάλων πόλεων και ανώτατα εκπαιδευτικά ιδρύματα καθώς και να γίνει κοινωνός άμεσα εφαρμόσιμης και ανταποδοτικής τεχνολογίας και επιστημονικής γνώσης.

Με δεδομένη την αρνητική οικονομική συγκυρία της χώρας μας ενισχύεται ακόμη περισσότερο η επιλογή της ΔΕΥΑΚ για ανταλλαγή τεχνογνωσίας και συνεργασία με εξειδικευμένους φορείς, στοχευμένες και άμεσα ανταποδοτικές επενδύσεις με χρήση τόσο τεχνολογικά εξελιγμένων όσο και χρηματοοικονομικά βιώσιμων επιλογών με γνώμονα πάντα το συμφέρον του πολίτη της Κοζάνης και την περιβαλλοντική αειφορία.



Σας ευχαριστώ για την προσοχή σας

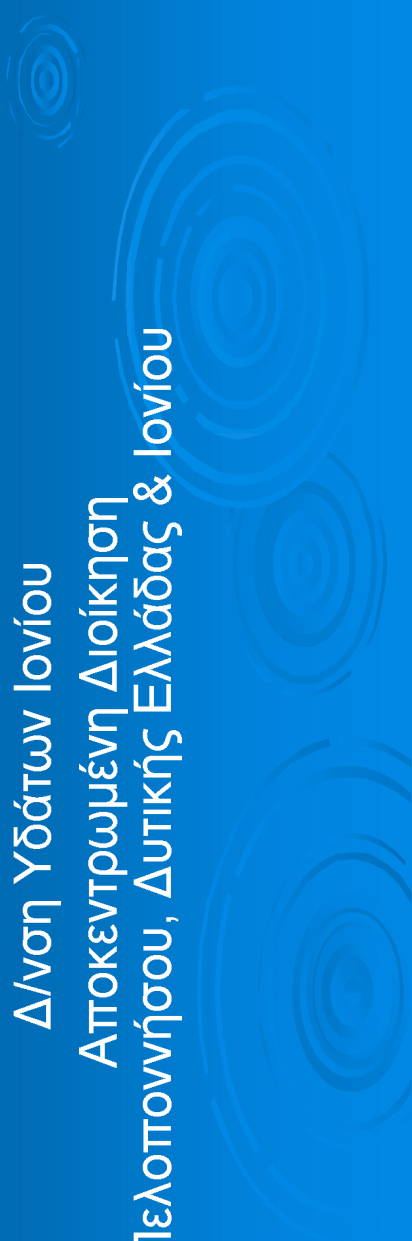
ΑΠΟΚΕΝΤΡΩΜΕΝΗ ΔΙΟΙΚΗΣΗ
ΠΕΛΟΠΟΝΝΗΣΟΥ, ΔΥΤΙΚΗΣ ΕΛΛΑΔΑΣ &
ΙΟΝΙΟΥ
ΔΙΝΣΗ ΥΔΑΤΩΝ ΙΟΝΙΟΥ

*Διαχείριση υδατικών πόρων στην Λεκάνη
Απορροής Κέρκυρας*

Λαγκαδάς Μιχάλης
Φυσικός, PhD

Δ/ση Υδάτων Ιονίου

Αποκεντρωμένη Διοίκηση
Πελοποννήσου, Δυτικής Ελλάδας & Ιονίου

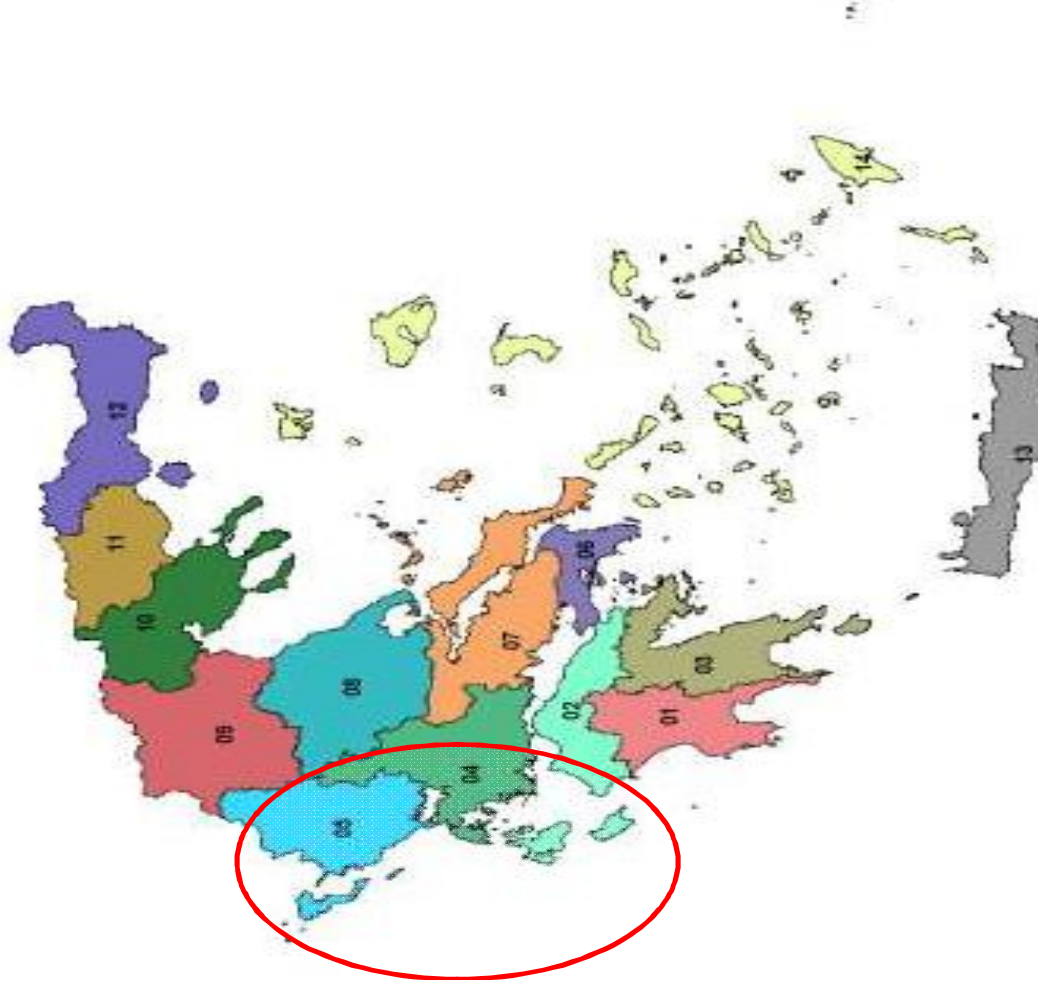


Διεύθυνση Υδάτων Ιονίου

- Αρμοδιότητα : Διαχείριση και προστασία των υδάτων
- Χωρική Αρμοδιότητα : Ιόνια Νησιά
- Τμήματα Διεύθυνσης :
 - Τμήμα Ανάπτυξης : αδειοδοτήσεις υδροληψιών
 - Τμήμα Παρακολούθησης : Σχέδια Διαχείρισης και επαναχρησιμοποίηση των επεξεργασμένων λυμάτων
 - Τμήμα Επικοινωνίας : διαχείριση Ε.Μ.Σ.Υ. και γραμματειακή υποστήριξη
- Στελέχωση : 5 + 1 (παράλληλα από ΤΑΣ Λευκάδας)

Σχέδια Διαχείρισης Υδατικών Διαμερισμάτων (Υ.Δ.)

- Η Χώρα διαιρείται σε 14 Υ.Δ.
- Κάθε Υ.Δ. έχει Σχέδιο Διαχείρισης
- Τα Ιόνια Νησιά ανήκουν σε τρία διαφορετικά Υ.Δ.
- Η Κέρκυρα ανήκει στο Υ.Δ. 05 (Ηπείρου)



Σχέδια Διαχείρισης Υ.Δ. (Οδηγία 2000/60/ΕΚ)

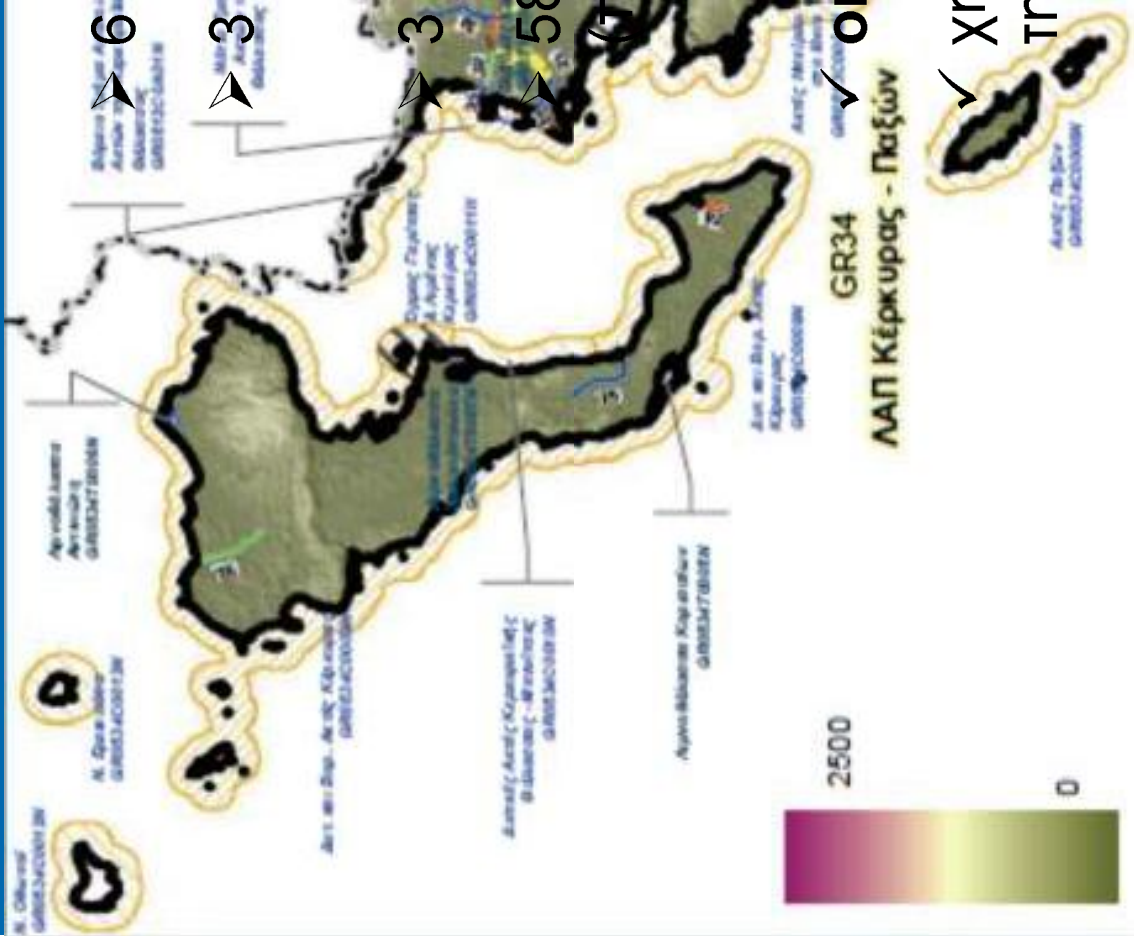
Στόχος: *εργαλείο διαχείρισης επιφανειακών και υπόγειων υδάτων*

- ✓ Καθορισμός υπόγειων υδατικών συστημάτων και επιφανειακών υδατικών σωμάτων (ποτάμια, λίμνες, μεταβατικά και παράκτια)
- ✓ Χαρακτηρισμός της κατάστασης τους (οικολογικά και φυσικοχημικά)
- ✓ Επίτευξη της «καλής κατάστασης» σε όλα τα υδατικά σώματα και συστήματα (τελικός χρονικός ορίζοντας το 2027)

Σκοπός: Βιώσιμη χρήση νερού μέσω της μακροπρόθεσμης προστασίας των διαθέσιμων υδατικών πόρων.

6-ετής Κύκλος εφαρμογής: 2009-2015, 2015-2021, 2021-2027

Επιφανειακά Ύδατα



- 6 Παράκτια Υδάτινα Σώματα
- 3 Μεταβατικά Υδάτινα Σώματα (Λιμνοθάλασσες)
- 3 Ποτάμια Υδάτινα Σώματα
- 58 ακτές κολύμβησης
- Πρόγραμμα παρακολούθησης

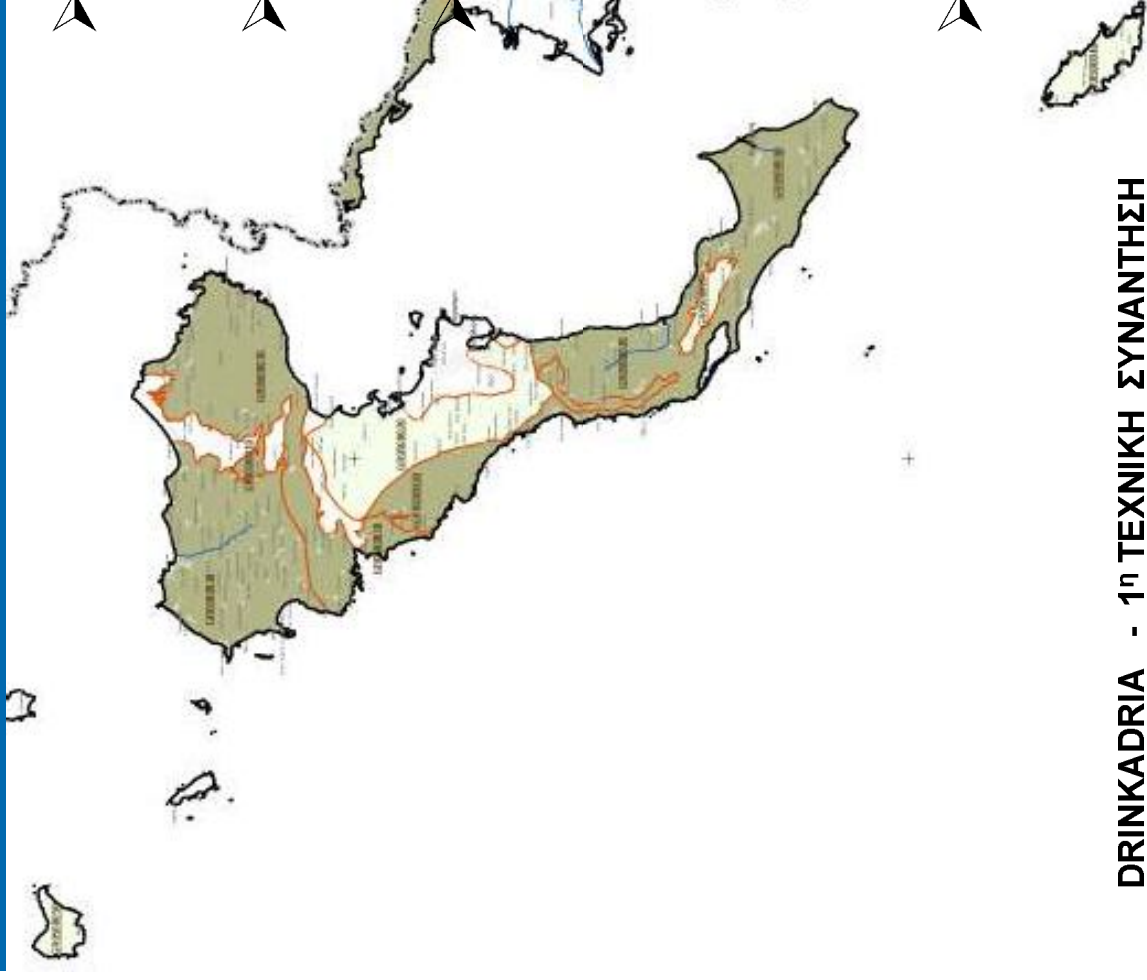
Υφιστάμενη κατάσταση

✓ **οικολογική** : καλή



Υ.Δ. 05 – Λ.Α.Π. ΚΕΡΚΥΡΑΣ (GR34)

Υπόγεια Ύδατα



➤ 5 Υπόγεια Υδατικά
Συστήματα

➤ Ποσοτική κατάσταση :
καλή

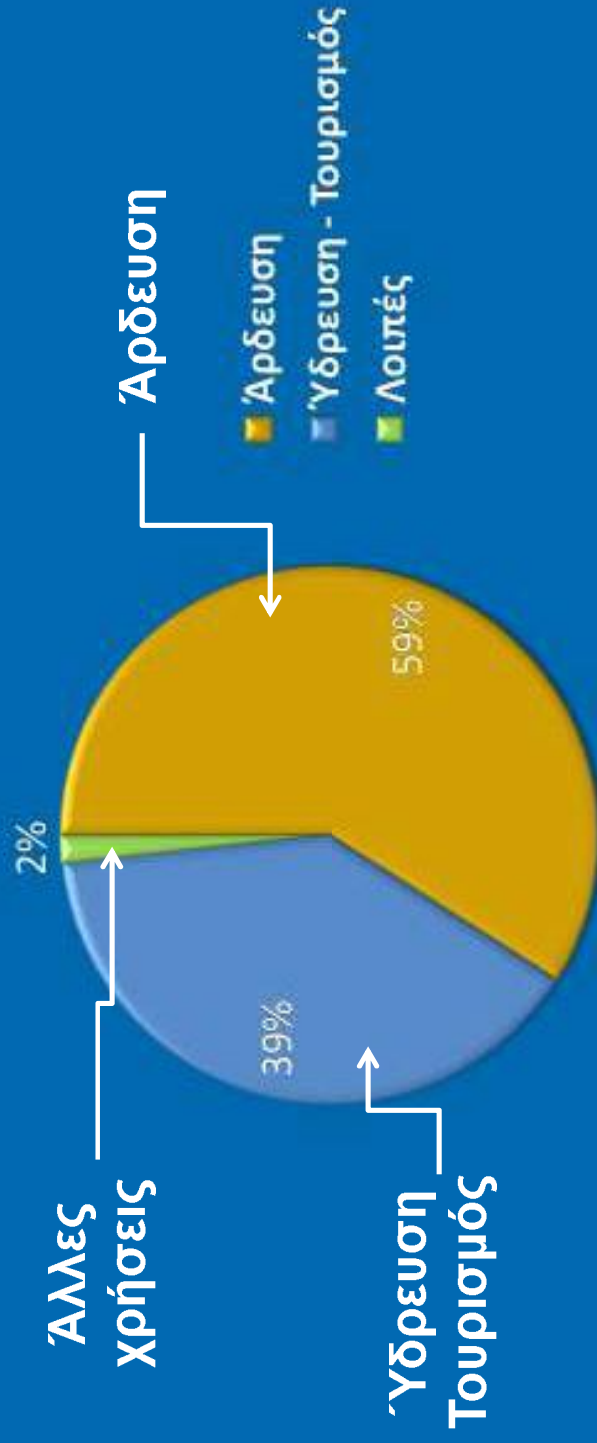
➤ Χημική κατάσταση :
καλή

(αυξημένες τιμές SO_4 και Cl
εξαιτίας γεωλογικού
υποβάθρου και
υφαλμύρινσης)

➤ Επανελέγχος με την επόμενη
αναθεώρηση (2015)

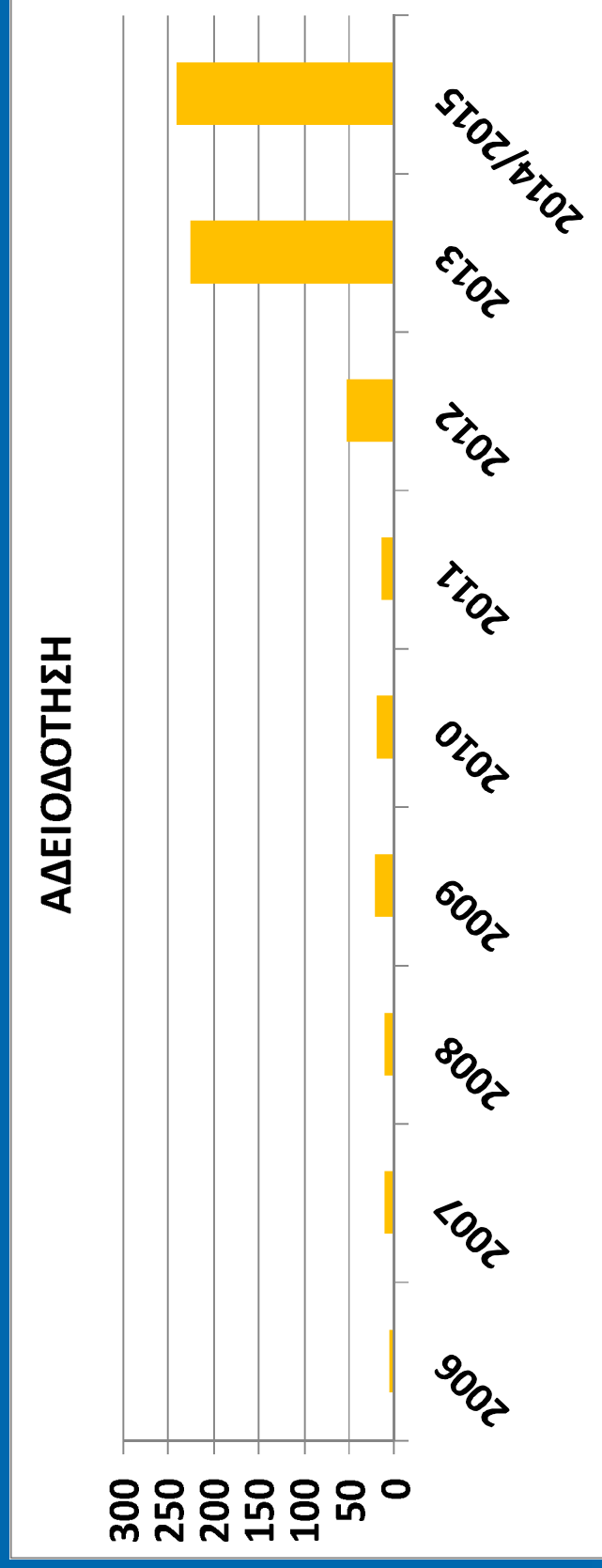
Υ.Δ. 05 – Λ.Α.Π. ΚΕΡΚΥΡΑΣ (GR34)

Εκτίμηση απολήψεων / έτος



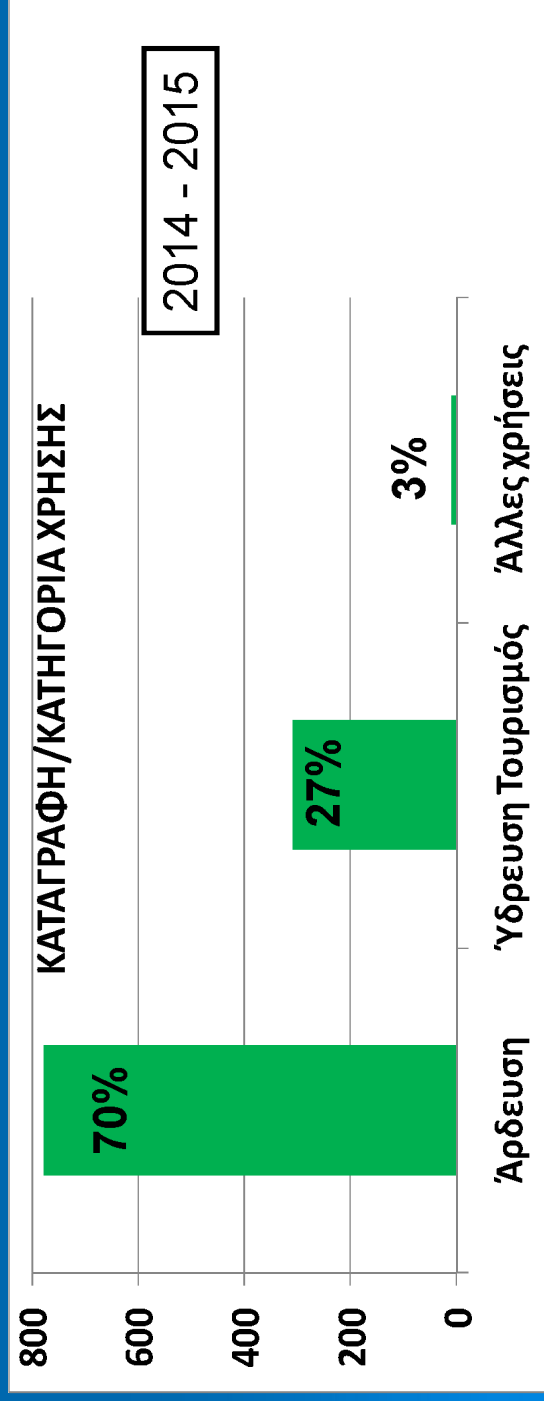
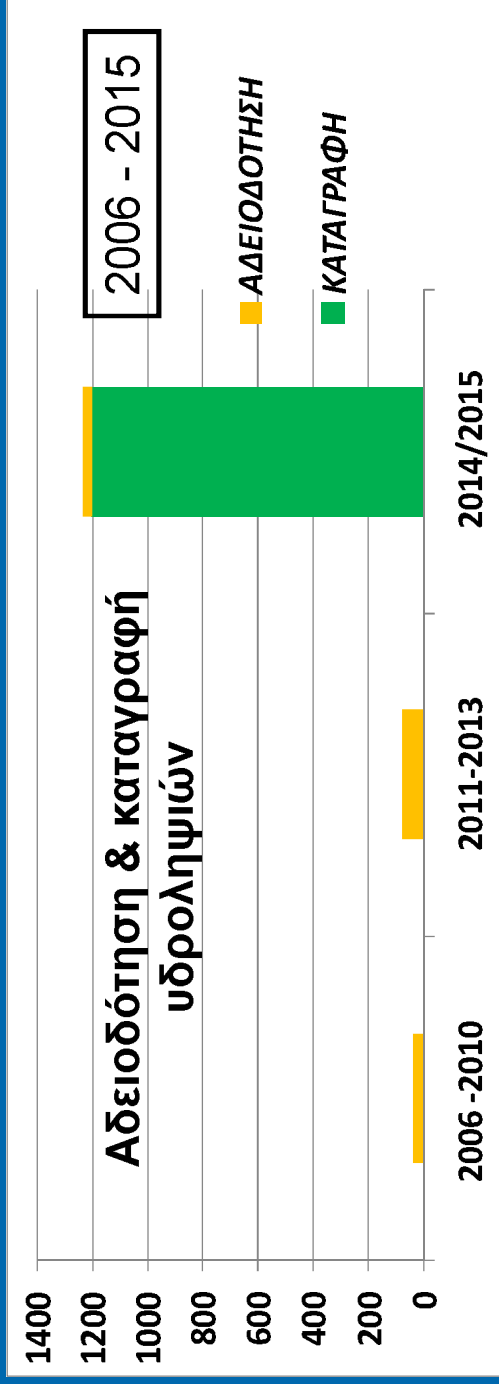
- Συνολικές απολήψεις 30εκατ. m³
- 98% από Υπόγεια Υδατικά Συστήματα
- Ισοζύγιο τροφοδοσίας/απολήψεων >1

Υφιστάμενη κατάσταση (Ιόνια Νησιά) Αδειοδότηση υδροληψιών

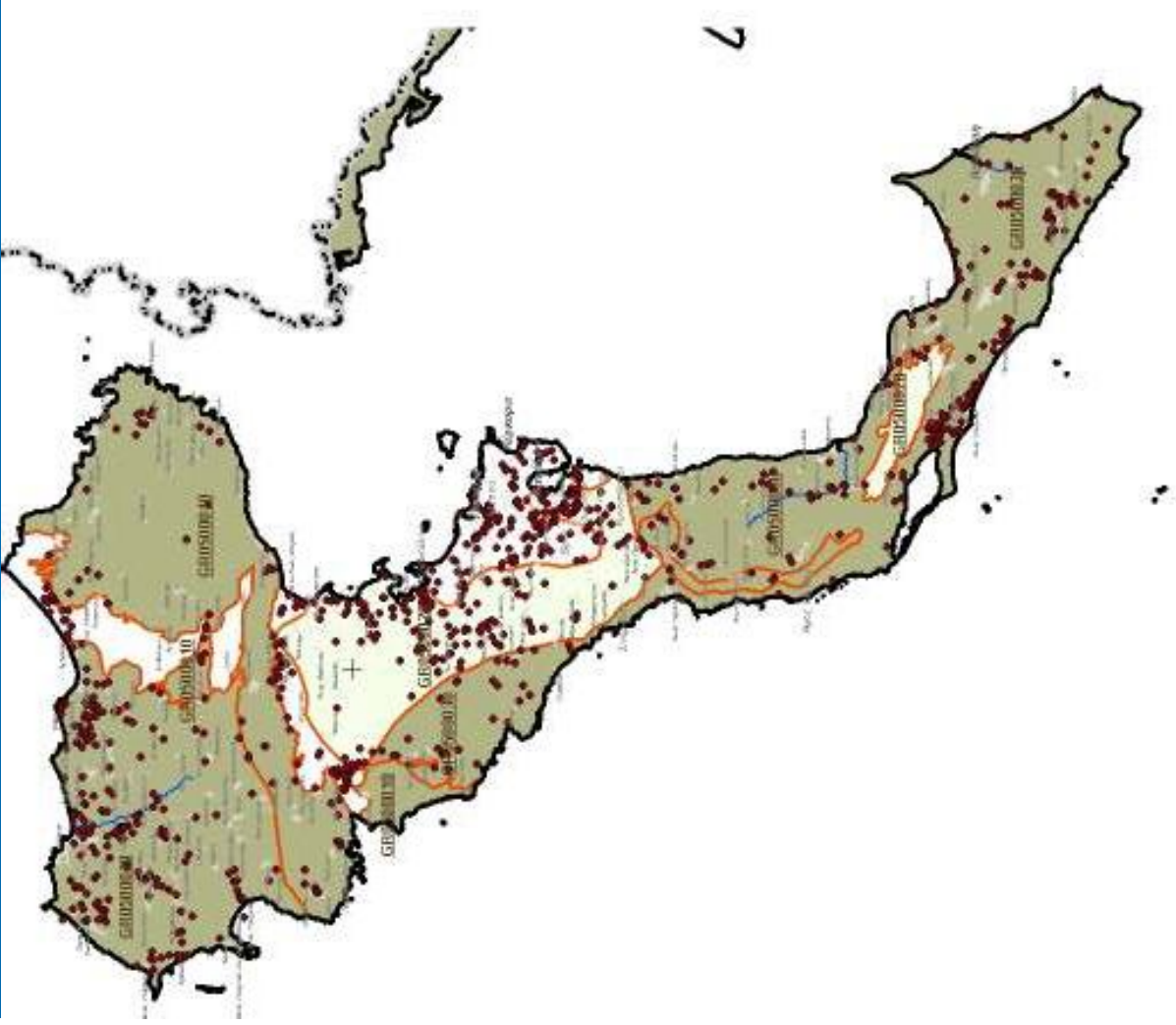


- **2006–2010:** αδειοδότηση με ΚΥΑ 43504/2005
- **2011–2014:** αδειοδότηση υφιστάμενων με ΚΥΑ150559/2011
- **2015–** :αδειοδότηση υφιστάμενων και νέων με ΚΥΑ146896/2014

Υφιστάμενη κατάσταση υδροληψιών (Κέρκυρα) Σύσταση Ε.Μ.Σ.Υ. (ΚΥΑ145026/2014) για καταγραφή

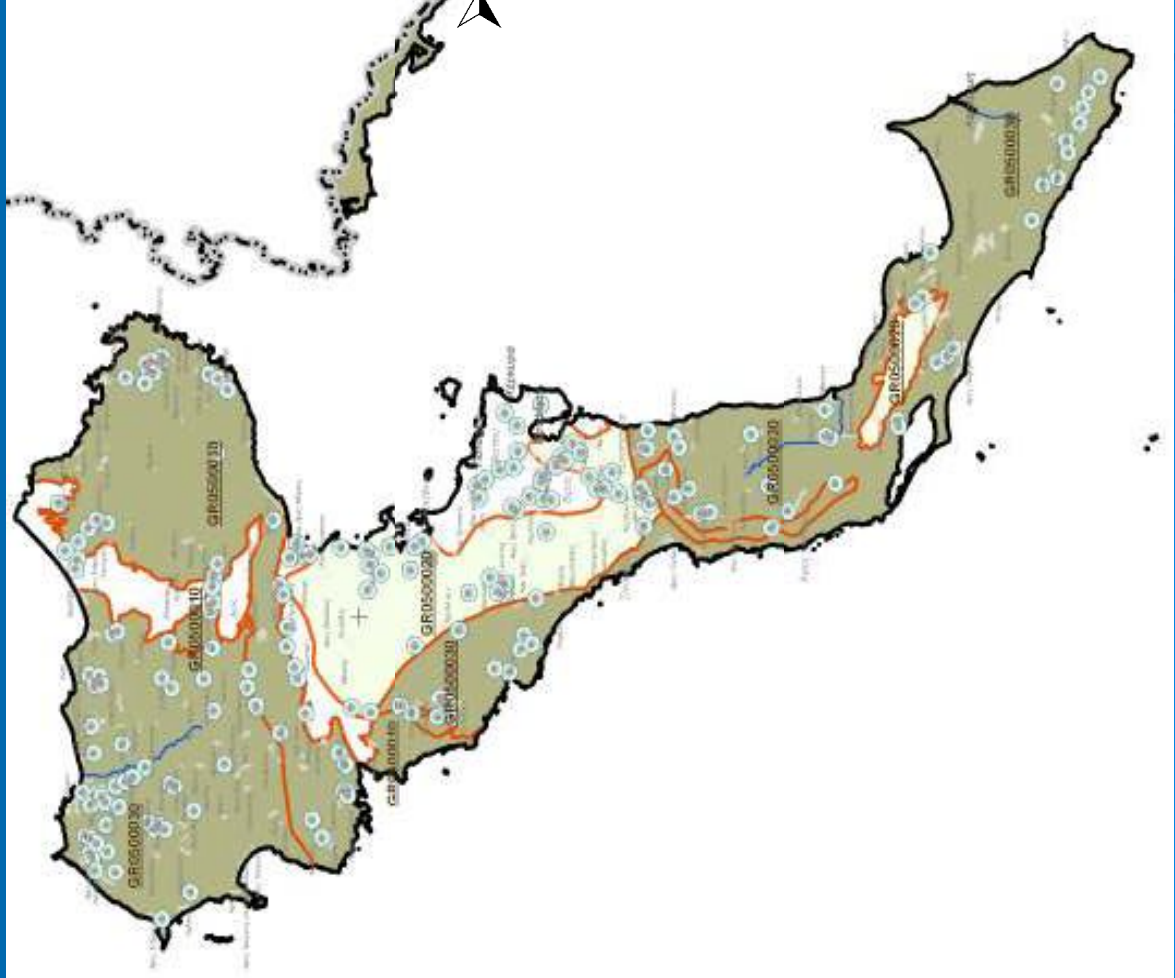


Υφιστάμενες υδροληψίες (καταγραφή)



➤ Αξιολόγηση
αναγκαιότητας λήψης
περιοριστικών και
απαγορευτικών μέτρων

Υφιστάμενες υδροληψίες ύδρευσης (καταγραφή)



Αξιολόγηση δυνατότητας
χωροθέτησης περιοχών
προστασίας για το
πόσιμο νερό

Προβλεπόμενα Έργα Σχεδίου Διαχείρισης

- Έργα υποδομών (ύδρευσης) Κέρκυρας :
 - ✓ 3 φράγματα (Καλαμιώτισσας και Μελισσούδι I & II) συνολικής χωρητικότητας 7 εκατ. m³ και εγκαταστάσεις καθαρισμού του νερού.
 - ✓ 2 μονάδες αποσκλήρυνσης νερού (Χρυσιάδα και Νεοχωράκη).
- Έργα υποδομών (ύδρευσης) Παξών :
 - ✓ Μονάδα αφαλάτωσης δυναμικότητας 900 m³/day
 - ✓ Εξωτερικό κεντρικό υδραγωγείο και ενίσχυση δικτύου
 - ✓ Ενίσχυση αποθεμάτων νερού στις υφιστάμενες λιμνοδεξαμενές

Μέτρα Εφαρμογής Σχεδίου Διαχείρισης 1/2

- Καταγραφή υδροληψιών και απολήψιμων ποσοτήτων
- Προσδιορισμός ζωνών προστασίας έργων υδροληψίας για άντληση πόσιμου ύδατος από υπόγεια ύδατα
- Σύνταξη Γενικών Σχεδίων Ύδρευσης (Masterplan) και Υλοποίηση Σχεδίων Ασφάλειας νερού
- Οριοθέτηση υφάλμυρης ζώνης παράκτιων υπογείων υδάτων



Μέτρα Εφαρμογής Σχεδίου Διαχείρισης 2/2

- Προγράμματα παρακολούθησης ορθής λειτουργίας των ΕΕΛ
- Καταγραφή πηγών απόρριψης ρύπων στο υδάτινο περιβάλλον και κατάρτιση μητρώου πηγών ρύπανσης
- Διερεύνηση δυνατότητας τεχνητού εμπλουτισμού υπόγειων υδροφόρων συστημάτων για την ποσοτική και ποιοτική ενίσχυση των ΥΥΣ. - Επαναχρησιμοποίηση επεξεργασμένων υγρών αποβλήτων
- Εφαρμογή της Οδηγίας για τα ύδατα κολύμβησης την περίοδο 2014- 2020

Εμπλεκόμενες Υπηρεσίες στην εφαρμογή Σχεδίων Διαχείρισης

- Υ.Π.Α.Π.ΕΝ. (Ε.Γ.Υ. και Ε.Υ.ΣΠ.Ε.Δ.)
- Αποκεντρωμένη Διοίκηση (Δ/νση Υδάτων Ιονίου)
- Π.Ι.Ν. (Δ/νση Περιβάλλοντος, Δ/νση Αγροτικής Οικονομίας, Δ/νση Δημόσιας Υγείας.....)
- Διαχειριστική Αρχή Π.Ι.Ν.
- Δ.Ε.Υ.Α.
- Τ.Ο.Ε.Β.

Ευχαριστώ για την προσοχή σας

ANNEX 5: NATIONAL DATA ITALY





DRINKADRIA

Networking for Drinking Water Supply in Adriatic Region



QUESTIONNAIRE ON CROSS BORDER /REGIONAL WATER SUPPLY SYSTEMS AND WATER RESOURCES MANAGEMENT

The Capitalization and sustainability activity (CS) is an important project component that would provide framework for exchange of relevant information of significance for cross- border/ regional water supply systems among stakeholders, authorities, research institutions, etc.

Yours feedbacks collected during the national workshops provide valuable inputs and contribute to successful DRINKADRIA project implementation.

Are there legislative frameworks (treaties, agreements, Memorandum of Understanding, etc.) that are significant for cross-border/ regional water supply systems and water resource management you are familiar with in your country/region: <input type="checkbox"/> YES <input type="checkbox"/> No If the answer is yes, please provide the title
Your familiarity with issues/ constraints regarding cross- border / regional water resources: <input type="checkbox"/> Comprehensive <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Deficient Please provide additional comments if any:
Implementation level of River basin Management Plans at the national level: <input type="checkbox"/> Completed <input type="checkbox"/> Ongoing <input checked="" type="checkbox"/> Pending Please provide additional comments if any:
Implementation level of River basin Management Plans (transboundary river basins) : <input type="checkbox"/> Completed <input type="checkbox"/> Ongoing <input checked="" type="checkbox"/> Pending Please provide additional comments if any:
What are the most important topics that you would like to become more familiar regarding to cross- border /regional water supply systems and water resources management?
Do you consider this type of workshops/roundtables useful: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Neutral
Additional Comments:

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & Sustainability

Name: Surname: Institution/ Organization: (if you wish to remain anonymous, please do not fill)	LUIGI COLUGLIATI ARPA F.V.G. - LABORATORIO ANALISI
Your Institution/ Organization mission /main scope of the work: <input type="checkbox"/> Water utility <input checked="" type="checkbox"/> Authority : <input checked="" type="checkbox"/> local <input checked="" type="checkbox"/> regional <input type="checkbox"/> national <input type="checkbox"/> Research Organization <input type="checkbox"/> Water Association <input type="checkbox"/> Other (please specify):	
Your activities are mainly focused on : <input type="checkbox"/> water supply <input checked="" type="checkbox"/> water protection <input type="checkbox"/> education/research <input type="checkbox"/> international cooperation <input type="checkbox"/> financial/ legislative <input type="checkbox"/> other, namely :	
What spatial scale reflects the best your activities and tasks? (Please use percentile estimation in a way that total amount is 100% Example: local -55%, national -25%, other - 20%) SO local _ % regional _ % national _ % international _ % other, namely : _ %	
What are the main water supply management issues/ problems at the present? (Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems) <input type="checkbox"/> Losses <input type="checkbox"/> Quantity <input type="checkbox"/> Quality <input type="checkbox"/> Water tariffs <input type="checkbox"/> legislation and policy framework <input type="checkbox"/> Lack of funding <input type="checkbox"/> Infrastructure <input type="checkbox"/> Capacities : <input type="checkbox"/> institutional <input type="checkbox"/> technical <input type="checkbox"/> human <input type="checkbox"/> Climate change <input type="checkbox"/> Weak Cooperation <input type="checkbox"/> Other, namely :	

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & Sustainability

<p>Please rank the following in terms of before mentioned issues/problems: (Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)</p> <p>LOSSES</p> <p>3 <input type="checkbox"/> unauthorized consumption 5 <input type="checkbox"/> metering errors 4 <input type="checkbox"/> distribution network leakage 2 <input type="checkbox"/> water supply facilities leakage <input type="checkbox"/> other, please specify</p> <p>QUANTITY</p> <p>4 <input type="checkbox"/> increase in water use 5 <input type="checkbox"/> seasonal fluctuations 5 <input type="checkbox"/> water storage capacities 2 <input type="checkbox"/> changes in land use practices <input type="checkbox"/> high consumption by other sectors (agriculture, industry, etc) 5 <input type="checkbox"/> Climate Change <input type="checkbox"/> other, please specify</p> <p>QUALITY</p> <p>4 <input type="checkbox"/> point source pollution 2 <input type="checkbox"/> nonpoint source pollution 2 <input type="checkbox"/> source protection issues 3 <input type="checkbox"/> changes in land use practices 5 <input type="checkbox"/> seasonal fluctuation 5 <input type="checkbox"/> Climate Change <input type="checkbox"/> other, please specify</p> <p>WATER SUPPLY DISTRIBUTION CONSTRAINTS</p> <p>5 <input type="checkbox"/> inadequate network 3 <input type="checkbox"/> pumping stations capacities 4 <input type="checkbox"/> reservoirs deficiency 4 <input type="checkbox"/> poor maintenance of water supply distribution system 4 <input type="checkbox"/> ageing <input type="checkbox"/> other, please specify</p>	<p>What are the main water supply management constraints in the near future (next 25-30 years) ? (Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)</p> <p>4 <input type="checkbox"/> Losses 4 <input type="checkbox"/> Quantity 5 <input type="checkbox"/> Quality 4 <input type="checkbox"/> Water tariffs 4 <input type="checkbox"/> legislation and policy framework 4 <input type="checkbox"/> Lack of funding 2 <input type="checkbox"/> Infrastructure 2 <input type="checkbox"/> Capacities 2 <input type="checkbox"/> institutional 3 <input type="checkbox"/> technical 3 <input type="checkbox"/> human 5 <input type="checkbox"/> Climate change 3 <input type="checkbox"/> Weak Cooperation <input type="checkbox"/> Other, namely</p>
<p>What are the most important steps and activities that would improve water supply in terms of aforementioned issues and constraints? (Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to different issues/problems)</p> <p>5 <input type="checkbox"/> More information on climate change impacts on the water resources management and future planning; 5 <input type="checkbox"/> Improved knowledge of uncertainties that influence climate change adaptation measures; 4 <input type="checkbox"/> Improved knowledge about future water availability and future planning; 2 <input type="checkbox"/> Improved knowledge of land use practices impact on DWS and source protection zones definition; 2 <input type="checkbox"/> Improved knowledge about future water safety; 3 <input type="checkbox"/> Improved management practices for cross-border water supply systems; 3 <input type="checkbox"/> Common protocol development for the Cross-border / regional WSS and WRS management; 4 <input type="checkbox"/> Implementation of the priority measures for more efficient and effective WSS and WR management; 4 <input type="checkbox"/> Reduction of the water loss and leakage real time monitoring;</p>	

<p>4 <input type="checkbox"/> Modern methodologies application for the real time control of: leakage, water quality, pumps schedules, etc. 4 <input type="checkbox"/> Development of WEB page that would improve cooperation and knowledge exchange and transfer relevant for WRM and DWS issues; <input type="checkbox"/> Other, namely :</p>	<p>Do you think that some cross-cutting issues can be solved by: (Please rank them: 1 the most significant, 5 the least significant, it is possible assign the same rank to maximum two issues/problems)</p> <p>4 <input type="checkbox"/> Policy that would address the majority of issues 3 <input type="checkbox"/> Separate policies that would address the majority of issues 4 <input type="checkbox"/> Better cooperation among different sectors 4 <input type="checkbox"/> Better cooperation among local and national authorities 5 <input type="checkbox"/> More financial resources 2 <input type="checkbox"/> Water tariffs <input type="checkbox"/> Other, namely :</p>
<p>Please list the 3 most significant actors/ actions for improved water supply and water resources management: REUSE OF WASTE WATER NOT FOR HUMAN CONSUMPTION WATER LEAKAGE REDUCTION PROTECTION OF ENVIRONMENT</p>	<p>What are the actions that your institution/ organization might take to improve water supply and water resources management and contribute to its sustainability? MAINTAINING OF HUMAN AND ECONOMIC RESOURCES FOR LAND CONTROL EMPOWERMENT OF COMPETENCE AND PROFESSIONALITY</p>
<p>Do you think that only state activities contribute to improved water supply: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO If the answer is NO please list other institutional levels of significance: REGIONAL, LOCAL, TRANSBOUNDARY COOPERATION</p>	<p>Your familiarity/ knowledge with role and activities of Bilateral Commissions of significance for cross – border/ regional water supply and water resources management: <input type="checkbox"/> Comprehensive <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Deficient</p>
<p>Your familiarity/ knowledge with role and activities of Local Authorities of significance for cross – border/ regional water supply: <input type="checkbox"/> Comprehensive <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Deficient</p>	



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Networking for Drinking Water Supply in Adriatic Region



QUESTIONNAIRE ON CROSS BORDER /REGIONAL WATER SUPPLY SYSTEMS AND WATER RESOURCES MANAGEMENT

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Yours feedbacks collected during the national workshops provide valuable inputs and contribute to successful DRINKADRIA project implementation.

Are there legislative frameworks (treaties, agreements, Memorandum of Understanding, etc.) that are significant for cross-border/ regional water supply systems and water resource management you are familiar with in your country/region: <input checked="" type="checkbox"/> YES <input type="checkbox"/> No If the answer is yes, please provide the title <u>TREATY OF OSIMO</u>
Your familiarity with issues/ constraints regarding cross- border / regional water resources: <input type="checkbox"/> Comprehensive <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Deficient Please provide additional comments if any:
Implementation level of River basin Management Plans at the national level: <input checked="" type="checkbox"/> Completed <input type="checkbox"/> Ongoing <input type="checkbox"/> Pending Please provide additional comments if any:
Implementation level of River basin Management Plans (transboundary river basins) : <input checked="" type="checkbox"/> Completed <input type="checkbox"/> Ongoing <input type="checkbox"/> Pending Please provide additional comments if any:
What are the most important topics that you would like to become more familiar regarding to cross- border /regional water supply systems and water resources management? <u>CROSS BORDER AGREEMENT AND TREATY</u>
Do you consider this type of workshops/roundtables useful: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Neutral
Additional Comments:

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & Sustainability

Name: Surname: Institution/ Organization: (If you wish to remain anonymous, please do not fill)	<u>ALBERTO</u> <u>CIUSTO</u> <u>AUTOKADA TALIANO DEI FUHI DELL'ATO</u> <u>ARMANDO</u>
Your Institution/ Organization mission /main scope of the work: <input type="checkbox"/> Water utility <input checked="" type="checkbox"/> Authority : <input type="checkbox"/> local <input type="checkbox"/> regional <input type="checkbox"/> national <input type="checkbox"/> Research Organization <input type="checkbox"/> Water Association <input type="checkbox"/> Other (please specify):	
Your activities are mainly focused on : <input type="checkbox"/> water supply <input checked="" type="checkbox"/> water protection <input type="checkbox"/> education/research <input type="checkbox"/> international cooperation <input type="checkbox"/> financial/ legislative <input type="checkbox"/> other, namely :	
What spatial scale reflects the best your activities and tasks? (Please use percentile estimation in a way that total amount is 100% Example: local -55%, national -25%, other - 20%) local _ % regional _ % national _ % international _ % other, namely : _ %	<u>40</u> <u>40</u> <u>10</u>
What are the main water supply management issues/ problems at the present? (Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)	<input checked="" type="checkbox"/> Losses <input checked="" type="checkbox"/> Quantity <input checked="" type="checkbox"/> Quality <input checked="" type="checkbox"/> Water tariffs <input checked="" type="checkbox"/> legislation and policy framework <input type="checkbox"/> Lack of funding <input type="checkbox"/> Infrastructure <input type="checkbox"/> Capacities : <input type="checkbox"/> institutional <input type="checkbox"/> technical <input type="checkbox"/> human <input checked="" type="checkbox"/> Climate change <input type="checkbox"/> Weak Cooperation <input type="checkbox"/> Other, namely :

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & Sustainability

<p>Please rank the following in terms of before mentioned issues/problems: (Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)</p>	
<p>LOSSES</p> <p><input type="checkbox"/> unauthorized consumption <input type="checkbox"/> metering errors <input type="checkbox"/> distribution network leakage</p> <p><input type="checkbox"/> distribution network leakage <input checked="" type="checkbox"/> water supply facilities leakage <input type="checkbox"/> other, please specify</p>	<p><input type="checkbox"/> increase in water use <input checked="" type="checkbox"/> seasonal fluctuations <input checked="" type="checkbox"/> water storage capacities</p> <p><input checked="" type="checkbox"/> changes in land use practices <input type="checkbox"/> high consumption by other sectors (agriculture, industry, etc)</p> <p><input type="checkbox"/> Climate Change <input type="checkbox"/> other, please specify</p>
<p>QUALITY</p> <p><input checked="" type="checkbox"/> point source pollution <input checked="" type="checkbox"/> nonpoint source pollution <input checked="" type="checkbox"/> source protection issues</p> <p><input checked="" type="checkbox"/> changes in land use practices <input type="checkbox"/> seasonal fluctuation <input type="checkbox"/> Climate Change</p> <p><input type="checkbox"/> other, please specify</p>	<p>WATER SUPPLY DISTRIBUTION CONSTRAINTS</p> <p><input type="checkbox"/> inadequate network <input checked="" type="checkbox"/> pumping stations capacities <input checked="" type="checkbox"/> reservoirs deficiency</p> <p><input type="checkbox"/> poor maintenance of water supply distribution system <input type="checkbox"/> ageing</p> <p><input type="checkbox"/> other, please specify</p>
<p>What are the main water supply management constraints in the near future (next 25-30 years) ? (Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)</p>	
<p><input checked="" type="checkbox"/> Losses <input checked="" type="checkbox"/> Quantity <input checked="" type="checkbox"/> Quality <input checked="" type="checkbox"/> Water tariffs</p> <p><input checked="" type="checkbox"/> legislation and policy framework <input type="checkbox"/> Lack of funding <input type="checkbox"/> Infrastructure</p> <p><input type="checkbox"/> Capacities : <input type="checkbox"/> institutional <input type="checkbox"/> technical <input type="checkbox"/> human</p> <p><input type="checkbox"/> Climate change <input type="checkbox"/> Weak Cooperation <input type="checkbox"/> Other, namely</p>	<p><input type="checkbox"/> Losses <input type="checkbox"/> Quantity <input type="checkbox"/> Quality <input type="checkbox"/> Water tariffs</p> <p><input type="checkbox"/> legislation and policy framework <input type="checkbox"/> Lack of funding <input type="checkbox"/> Infrastructure</p> <p><input type="checkbox"/> Capacities : <input type="checkbox"/> institutional <input type="checkbox"/> technical <input type="checkbox"/> human</p> <p><input type="checkbox"/> Climate change <input type="checkbox"/> Weak Cooperation <input type="checkbox"/> Other, namely</p>
<p>What are the most important steps and activities that would improve water supply in terms of aforementioned issues and constraints? (Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to different issues/problems)</p>	
<p><input checked="" type="checkbox"/> More information on climate change impacts on the water resources management and future planning;</p> <p><input checked="" type="checkbox"/> Improved knowledge of uncertainties that influence climate change adaptation measures;</p> <p><input checked="" type="checkbox"/> Improved knowledge about future water availability and future planning;</p> <p><input checked="" type="checkbox"/> Improved knowledge about future water safety;</p> <p><input checked="" type="checkbox"/> Improved management practices for cross-border water supply systems;</p> <p><input checked="" type="checkbox"/> Common protocol development for the Cross- border / regional WSS and WRS management;</p> <p><input checked="" type="checkbox"/> Implementation of the priority measures for more efficient and effective WSS and WR management;</p> <p><input checked="" type="checkbox"/> Reduction of the water loss and leakage real time monitoring;</p>	<p><input type="checkbox"/> More information on climate change impacts on the water resources management and future planning;</p> <p><input type="checkbox"/> Improved knowledge of uncertainties that influence climate change adaptation measures;</p> <p><input type="checkbox"/> Improved knowledge about future water availability and future planning;</p> <p><input type="checkbox"/> Improved knowledge about future water safety;</p> <p><input type="checkbox"/> Improved management practices for cross-border water supply systems;</p> <p><input type="checkbox"/> Common protocol development for the Cross- border / regional WSS and WRS management;</p> <p><input type="checkbox"/> Implementation of the priority measures for more efficient and effective WSS and WR management;</p> <p><input type="checkbox"/> Reduction of the water loss and leakage real time monitoring;</p>

<p><input type="checkbox"/> Modern methodologies application for the real time control of: leakage, water quality, pumps schedules, etc.</p> <p><input type="checkbox"/> Development of WEB page that would improve cooperation and knowledge exchange and transfer relevant for WRM and DWS issues;</p> <p><input type="checkbox"/> Other, namely :</p>	<p>Do you think that some cross-cutting issues can be solved by:</p> <p>(Please rank them: 1 the most significant, 5 the least significant, it is possible assign the same rank to maximum two issues/problems)</p> <p><input type="checkbox"/> Policy that would address the majority of issues</p> <p><input type="checkbox"/> Separate policies that would address the majority of issues</p> <p><input type="checkbox"/> Better cooperation among different sectors</p> <p><input type="checkbox"/> Better cooperation among local and national authorities</p> <p><input type="checkbox"/> More financial resources</p> <p><input type="checkbox"/> Water tariffs</p> <p><input type="checkbox"/> Other, namely :</p>
<p>Please list the 3 most significant actors/ actions for improved water supply and water resources management:</p> <p>CATO REGION HYDRAULIC SERVICE</p>	<p>What are the actions that your institution/ organization might take to improve water supply and water resources management and contribute to its sustainability?</p> <p>ACTIONS OF THE MANAGEMENT PLAN (DIR 2000/60 CE)</p>
<p>Do you think that only state activities contribute to improved water supply:</p> <p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p> <p>If the answer is NO please list other institutional levels of significance:</p> <p>REGION AND CATO</p>	<p>Your familiarity/ knowledge with role and activities of Bilateral Commissions of significance for cross – border/ regional water supply and water resources management:</p> <p><input checked="" type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input type="checkbox"/> Deficient</p>
<p>Your familiarity/ knowledge with role and activities of Local Authorities of significance for cross – border/ regional water supply:</p> <p><input checked="" type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input type="checkbox"/> Deficient</p>	<p>Your familiarity/ knowledge with role and activities of Local Authorities of significance for cross – border/ regional water supply:</p> <p><input checked="" type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input type="checkbox"/> Deficient</p>



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Are there legislative frameworks (treaties, agreements, Memorandum of Understanding, etc.) that are significant for cross-border/ regional water supply systems and water resource management you are familiar with in your country/region: <input type="checkbox"/> YES <input checked="" type="checkbox"/> No If the answer is yes, please provide the title
Your familiarity with issues/ constraints regarding cross- border / regional water resources: <input type="checkbox"/> Comprehensive <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Deficient Please provide additional comments if any:
Implementation level of River basin Management Plans at the national level: <input type="checkbox"/> Completed <input checked="" type="checkbox"/> Ongoing <input type="checkbox"/> Pending Please provide additional comments if any:
Implementation level of River basin Management Plans (transboundary river basins) : <input type="checkbox"/> Completed <input checked="" type="checkbox"/> Ongoing <input type="checkbox"/> Pending Please provide additional comments if any:
What are the most important topics that you would like to become more familiar regarding to cross- border /regional water supply systems and water resources management?
Do you consider this type of workshops/roundtables useful: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Neutral
Additional Comments:

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & Sustainability

Name: Surname: Institution/ Organization: (If you wish to remain anonymous, please do not fill)	PAOLO PLOSSE PROVINCE OF TRIESTE (I)
Your Institution/ Organization mission /main scope of the work: <input type="checkbox"/> Water utility <input checked="" type="checkbox"/> Authority : <input checked="" type="checkbox"/> local <input type="checkbox"/> regional <input type="checkbox"/> national <input type="checkbox"/> Research Organization <input type="checkbox"/> Water Association <input type="checkbox"/> Other (please specify):	
Your activities are mainly focused on : <input type="checkbox"/> water supply <input checked="" type="checkbox"/> water protection <input type="checkbox"/> education/research <input type="checkbox"/> international cooperation <input type="checkbox"/> financial/ legislative <input type="checkbox"/> other, namely :	
What spatial scale reflects the best your activities and tasks? (Please use percentile estimation in a way that total amount is 100% Example: local -55% national -25% other - 20%) local 80% regional 20% national _ % international _ % other, namely : _ %	
What are the main water supply management issues/ problems at the present? (Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems) <input type="checkbox"/> Losses <input type="checkbox"/> Quantity <input checked="" type="checkbox"/> Quality <input type="checkbox"/> Water tariffs <input checked="" type="checkbox"/> legislation and policy framework <input type="checkbox"/> Lack of funding <input checked="" type="checkbox"/> Infrastructure <input checked="" type="checkbox"/> Capacities : <input type="checkbox"/> Institutional <input type="checkbox"/> technical <input type="checkbox"/> human <input checked="" type="checkbox"/> Climate change <input type="checkbox"/> Weak Cooperation <input type="checkbox"/> Other, namely :	

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & Sustainability

<p>Please rank the following in terms of before mentioned issues/problems: (Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)</p> <p>LOSSES</p> <p><input type="checkbox"/> unauthorized consumption 4 <input type="checkbox"/> metering errors 3 <input type="checkbox"/> distribution network leakage</p> <p><input type="checkbox"/> distribution network leakage 1 <input type="checkbox"/> water supply facilities leakage 2</p> <p><input type="checkbox"/> other, please specify</p> <p>QUANTITY</p> <p><input type="checkbox"/> increase in water use 4 <input type="checkbox"/> seasonal fluctuations 3 <input type="checkbox"/> water storage capacities</p> <p><input type="checkbox"/> changes in land use practices 2 <input type="checkbox"/> high consumption by other sectors (agriculture, industry, etc) 1</p> <p><input type="checkbox"/> Climate Change 5 <input type="checkbox"/> other, please specify</p> <p>QUALITY</p> <p><input type="checkbox"/> point source pollution 2 <input type="checkbox"/> nonpoint source pollution 1 <input type="checkbox"/> source protection issues 3</p> <p><input type="checkbox"/> changes in land use practices 5 <input type="checkbox"/> seasonal fluctuation 4 <input type="checkbox"/> Climate Change</p> <p><input type="checkbox"/> other, please specify</p> <p>WATER SUPPLY DISTRIBUTION CONSTRAINTS</p> <p><input type="checkbox"/> inadequate network 2 <input type="checkbox"/> pumping stations capacities <input type="checkbox"/> reservoirs deficiency</p> <p><input type="checkbox"/> poor maintenance of water supply distribution system 3 <input type="checkbox"/> ageing 1</p> <p><input type="checkbox"/> other, please specify</p>	<p>What are the main water supply management constraints in the near future (next 25-30 years) ? (Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)</p> <p><input type="checkbox"/> Losses <input type="checkbox"/> Quantity 5 <input type="checkbox"/> Quality 1 <input type="checkbox"/> Water tariffs 4</p> <p><input type="checkbox"/> legislation and policy framework <input type="checkbox"/> Lack of funding 2 <input type="checkbox"/> Infrastructure 3</p> <p><input type="checkbox"/> Capacities : <input type="checkbox"/> Institutional <input type="checkbox"/> technical <input type="checkbox"/> human</p> <p><input type="checkbox"/> Climate change <input type="checkbox"/> Weak Cooperation <input type="checkbox"/> Other, namely</p>
<p>What are the most important steps and activities that would improve water supply in terms of aforementioned issues and constraints? (Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to different issues/problems)</p> <p><input type="checkbox"/> More information on climate change impacts on the water resources management and future planning;</p> <p><input type="checkbox"/> Improved knowledge of uncertainties that influence climate change adaptation measures;</p> <p><input type="checkbox"/> Improved knowledge about future water availability and future planning;</p> <p><input type="checkbox"/> Improved knowledge of land use practices impact on DWS and source protection zones definition;</p> <p><input type="checkbox"/> Improved knowledge about future water safety;</p> <p><input type="checkbox"/> Improved management practices for cross-border water supply systems;</p> <p><input type="checkbox"/> Common protocol development for the Cross-border / regional WSS and WRS management;</p> <p><input type="checkbox"/> Implementation of the priority measures for more efficient and effective WSS and WR management;</p> <p><input type="checkbox"/> Reduction of the water loss and leakage real time monitoring;</p>	

<p><input type="checkbox"/> Modern methodologies application for the real time control of: leakage, water quality, pumps schedules, etc.</p> <p><input type="checkbox"/> Development of WEB page that would improve cooperation and knowledge exchange and transfer relevant for WRM and DWS issues;</p> <p><input type="checkbox"/> Other, namely :</p>	<p>Do you think that some cross-cutting issues can be solved by:</p> <p>(Please rank them: 1 the most significant, 5 the least significant, it is possible assign the same rank to maximum two issues/problems)</p> <p><input type="checkbox"/> Policy that would address the majority of issues</p> <p><input type="checkbox"/> Separate policies that would address the majority of issues</p> <p><input type="checkbox"/> Better cooperation among different sectors</p> <p><input type="checkbox"/> Better cooperation among local and national authorities</p> <p><input type="checkbox"/> More financial resources</p> <p><input type="checkbox"/> Water tariffs</p> <p><input type="checkbox"/> Other, namely :</p>
<p>Please list the 3 most significant actors/ actions for improved water supply and water resources management:</p>	<p>What are the actions that your institution/ organization might take to improve water supply and water resources management and contribute to its sustainability?</p>
<p>Do you think that only state activities contribute to improved water supply:</p> <p><input type="checkbox"/> YES <input checked="" type="checkbox"/> No</p> <p>If the answer is NO please list other institutional levels of significance: LOCAL (REGIONAL)</p>	<p>Your familiarity/ knowledge with role and activities of Bilateral Commissions of significance for cross – border/ regional water supply and water resources management:</p> <p><input type="checkbox"/> Comprehensive <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Deficient</p>
<p>Your familiarity/ knowledge with role and activities of Local Authorities of significance for cross – border/ regional water supply:</p> <p><input checked="" type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input type="checkbox"/> Deficient</p>	



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Are there legislative frameworks (treaties, agreements, Memorandum of Understanding, etc.) that are significant for cross-border/ regional water supply systems and water resource management you are familiar with in your country/region: <input checked="" type="checkbox"/> YES <input type="checkbox"/> No If the answer is yes, please provide the title
Your familiarity with issues/ constraints regarding cross- border / regional water resources: <input type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Deficient Please provide additional comments if any:
Implementation level of River basin Management Plans at the national level: <input checked="" type="checkbox"/> Completed <input type="checkbox"/> Ongoing <input type="checkbox"/> Pending Please provide additional comments if any: GAP-UK on ANGA udine
Implementation level of River basin Management Plans (transboundary river basins) : <input type="checkbox"/> Completed <input type="checkbox"/> Ongoing <input type="checkbox"/> Pending Please provide additional comments if any:
What are the most important topics that you would like to become more familiar regarding to cross- border /regional water supply systems and water resources management?
Do you consider this type of workshops/roundtables useful: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Neutral
Additional Comments: WATER-ENVIRONMENT-ENERGY: SEA WATER DESALINATION BY LOCAL RENEWABLE ENERGY SOURCES, ALONG THE LOCAL- COASTAL ADRIATIC COMMUNITIES / CITIES, SHOULD BE CONSIDERED FOR THE COUNTRIES WITH WELL GROUND WATER RESOURCES AVAILABLE NEAR BY.

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & Sustainability

Name: Surname: Institution/ Organization: (If you wish to remain anonymous, please do not fill)	Bruno DELLA PEROLA DEPT. OF ENGINEERING / ARCHITECTURE TRIESTE UNIVERSITY
Your Institution/ Organization mission /main scope of the work: <input type="checkbox"/> Water utility <input type="checkbox"/> Authority : <input type="checkbox"/> local <input type="checkbox"/> regional <input type="checkbox"/> national <input checked="" type="checkbox"/> Research Organization <input type="checkbox"/> Water Association <input type="checkbox"/> Other (please specify):	
Your activities are mainly focused on : <input type="checkbox"/> water supply <input checked="" type="checkbox"/> water protection <input checked="" type="checkbox"/> education/research <input type="checkbox"/> international cooperation <input type="checkbox"/> financial/ legislative <input type="checkbox"/> other, namely :	
What spatial scale reflects the best your activities and tasks? (Please use percentile estimation in a way that total amount is 100% Example: local -55% national -25%, other - 20%) local 30% regional 40% national 20% international 10% other, namely : _ %	
What are the main water supply management issues/ problems at the present? (Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems) <input checked="" type="checkbox"/> Losses <input checked="" type="checkbox"/> Quantity <input checked="" type="checkbox"/> Quality <input checked="" type="checkbox"/> Water tariffs <input checked="" type="checkbox"/> Legislation and policy framework <input checked="" type="checkbox"/> Lack of funding <input checked="" type="checkbox"/> Infrastructure <input checked="" type="checkbox"/> Capacities : <input checked="" type="checkbox"/> Institutional <input type="checkbox"/> technical <input type="checkbox"/> human <input type="checkbox"/> Climate change <input checked="" type="checkbox"/> Weak Cooperation <input type="checkbox"/> Other, namely :	

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & Sustainability

Please rank the following in terms of before mentioned issues/problems:
(Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

2 ☐ unauthorized consumption
☐ distribution network leakage
☐ other, please specify

1 ☐ increase in water use
☐ changes in land use practices
☐ Climate Change

3 ☐ metering errors
☐ water supply facilities leakage
☐ other, please specify

1 ☐ seasonal fluctuations
☐ high consumption by other sectors (agriculture, industry, etc)
☐ other, please specify

2 ☐ point source pollution
☐ changes in land use practices
☐ other, please specify

3 ☐ nonpoint source pollution
☐ seasonal fluctuation
☐ source protection issues
☐ Climate Change

WATER SUPPLY DISTRIBUTION CONSTRAINTS

1 ☐ inadequate network
☐ poor maintenance of water supply distribution system
☐ other, please specify

2 ☐ pumping stations capacities
☐ reservoirs deficiency
☐ ageing

What are the main water supply management constraints in the near future (next 25-30 years)?
(Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

2 ☐ Losses
☐ legislation and policy framework
☐ Capacities: ☒ institutional ☐ technical ☐ human
☐ Climate change ☒ Weak Cooperation ☐ Other, namely

1 ☐ Quantity ☐ Quality
☐ Water tariffs
☐ Lack of funding
☐ Infrastructure

What are the most important steps and activities that would improve water supply in terms of aforementioned issues and constraints?
(Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to different issues/problems)

2 ☐ More information on climate change impacts on the water resources management and future planning;
☐ Improved knowledge of uncertainties that influence climate change adaptation measures;
☐ Improved knowledge about future water availability and future planning;
☐ Improved knowledge of land use practices impact on DWS and source protection zones definition;
☐ Improved knowledge about future water safety;
☐ Improved management practices for cross-border water supply systems;
☐ Common protocol development for the Cross-border / regional WSS and WRS management;
☐ Implementation of the priority measures for more efficient and effective WSS and WR management;
☐ Reduction of the water loss and leakage real time monitoring;

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & Sustainability

☐ Modern methodologies application for the real time control of: leakage, water quality, pumps schedules, etc.
☐ Development of WEB page that would improve cooperation and knowledge exchange and transfer relevant for WRM and DWS issues;
☐ Other, namely :

2

Do you think that some cross-cutting issues can be solved by:

(Please rank them: 1 the most significant, 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

1 ☐ Policy that would address the majority of issues
☐ Separate policies that would address the majority of issues
☐ Better cooperation among different sectors
☐ Better cooperation among local and national authorities
☐ More financial resources
☐ Water tariffs
☐ Other, namely : LONG TERM PLANNING / MANAGEMENT GUINELINESES

2

Please list the 3 most significant actors/ actions for improved water supply and water resources management:

1 ☐ FINANCIAL RESOURCES
☐ ADEQUATE POLICY AND TARIFF PLANS
☐ BETTER COOPERATION

2

What are the actions that your institution/ organization might take to improve water supply and water resources management and contribute to its sustainability?

1 ☐ AQUIFER CHARACTERIZATION / MONITORING
☐ HAZARD / RISK ASSESSMENT STUDIES

2

Do you think that only state activities contribute to improved water supply:
☐ YES ☒ NO
If the answer is NO please list other institutional levels of significance:
☐ REGIONAL / TRANS-REGIONAL LEVELS
☐ LINK TO LOCAL NETWORK USERS
☐ EDUCATION / DISSEMINATION OF BEST PRACTICES

3

Your familiarity/ knowledge with role and activities of Bilateral Commissions of significance for cross - border/ regional water supply and water resources management:

☐ Comprehensive ☐ Moderate ☒ Deficient

4

Your familiarity/ knowledge with role and activities of Local Authorities of significance for cross - border/ regional water supply:

☐ Comprehensive ☒ Moderate ☐ Deficient

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & Sustainability



DRINK ADRIA

Networking for Drinking Water Supply in Adriatic Region



QUESTIONNAIRE ON CROSS BORDER /REGIONAL WATER SUPPLY SYSTEMS AND WATER RESOURCES MANAGEMENT

The Capitalization and sustainability activity (CS) is an important project component that would provide framework for exchange of relevant information of significance for cross- border/ regional water supply systems among stakeholders, authorities, research institutions, etc.

Yours feedbacks collected during the national workshops provide valuable inputs and contribute to successful DRINKADRIA project implementation.

Are there legislative frameworks (treaties, agreements, Memorandum of Understanding, etc.) that are significant for cross-border/ regional water supply systems and water resource management you are familiar with in your country/region: <input type="checkbox"/> YES <input checked="" type="checkbox"/> No If the answer is yes, please provide the title
Your familiarity with issues/ constraints regarding cross- border / regional water resources: <input type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Deficient Please provide additional comments if any:
Implementation level of River basin Management Plans at the national level: <input type="checkbox"/> Completed <input checked="" type="checkbox"/> Ongoing <input type="checkbox"/> Pending Please provide additional comments if any:
Implementation level of River basin Management Plans (transboundary river basins) : <input type="checkbox"/> Completed <input checked="" type="checkbox"/> Ongoing <input type="checkbox"/> Pending Please provide additional comments if any:
What are the most important topics that you would like to become more familiar regarding to cross- border /regional water supply systems and water resources management?
Do you consider this type of workshops/roundtables useful: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Neutral
Additional Comments:

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & Sustainability

Name: Surname: Institution/ Organization: (If you wish to remain anonymous, please do not fill)	ANDREA RUBIN ACEGAS-APS MULINOVIC
Your Institution/ Organization mission /main scope of the work: <input checked="" type="checkbox"/> Water utility <input type="checkbox"/> Authority : <input type="checkbox"/> local <input type="checkbox"/> regional <input type="checkbox"/> national <input type="checkbox"/> Research Organization <input type="checkbox"/> Water Association <input type="checkbox"/> Other (please specify):	
Your activities are mainly focused on : <input checked="" type="checkbox"/> water supply <input type="checkbox"/> water protection <input type="checkbox"/> education/research <input type="checkbox"/> international cooperation <input type="checkbox"/> financial/ legislative <input type="checkbox"/> other, namely :	
What spatial scale reflects the best your activities and tasks? (Please use percentile estimation in a way that total amount is 100% Example: local -55%, national -25%, other - 20%) local 40% regional 30% national 50% international 10% other, namely : _ %	
What are the main water supply management issues/ problems at the present? (Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems) <input type="checkbox"/> Losses 5 <input type="checkbox"/> Quantity 2 <input type="checkbox"/> Quality <input type="checkbox"/> Water tariffs <input type="checkbox"/> legislation and policy framework <input type="checkbox"/> Lack of funding 4 <input type="checkbox"/> Infrastructure <input type="checkbox"/> Capacities : <input type="checkbox"/> Institutional <input type="checkbox"/> technical <input type="checkbox"/> human <input type="checkbox"/> Climate change <input type="checkbox"/> Weak Cooperation <input type="checkbox"/> Other, namely :	

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & Sustainability

<p>Please rank the following in terms of before mentioned issues/problems: (Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)</p> <p>LOSSES</p> <p><input type="checkbox"/> unauthorized consumption <input type="checkbox"/> metering errors <input type="checkbox"/> distribution network leakage</p> <p><input type="checkbox"/> distribution network leakage <input type="checkbox"/> water supply facilities leakage</p> <p><input type="checkbox"/> other, please specify</p> <p>QUANTITY</p> <p><input type="checkbox"/> increase in water use <input type="checkbox"/> seasonal fluctuations <input type="checkbox"/> water storage capacities</p> <p><input type="checkbox"/> changes in land use practices <input type="checkbox"/> high consumption by other sectors (agriculture, industry, etc)</p> <p><input type="checkbox"/> Climate Change <input type="checkbox"/> other, please specify</p> <p>QUALITY</p> <p><input type="checkbox"/> point source pollution <input type="checkbox"/> nonpoint source pollution <input type="checkbox"/> source protection issues</p> <p><input type="checkbox"/> changes in land use practices <input type="checkbox"/> seasonal fluctuation <input type="checkbox"/> Climate Change</p> <p><input type="checkbox"/> other, please specify</p> <p>WATER SUPPLY DISTRIBUTION CONSTRAINTS</p> <p><input type="checkbox"/> inadequate network <input type="checkbox"/> pumping stations capacities <input type="checkbox"/> reservoirs deficiency</p> <p><input type="checkbox"/> poor maintenance of water supply distribution system <input type="checkbox"/> ageing</p> <p><input type="checkbox"/> other, please specify</p>	<p>What are the main water supply management constraints in the near future (next 25-30 years) ? (Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)</p> <p><input type="checkbox"/> Losses <input type="checkbox"/> Quantity <input type="checkbox"/> Quality <input type="checkbox"/> Water tariffs</p> <p><input type="checkbox"/> legislation and policy framework <input type="checkbox"/> Lack of funding <input type="checkbox"/> Infrastructure</p> <p><input type="checkbox"/> Capacities <input type="checkbox"/> Institutional <input type="checkbox"/> technical <input type="checkbox"/> human</p> <p><input type="checkbox"/> Climate change <input type="checkbox"/> Weak Cooperation <input type="checkbox"/> Other, namely</p>
<p>What are the most important steps and activities that would improve water supply in terms of aforementioned issues and constraints? (Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to different issues/problems)</p> <p><input type="checkbox"/> More information on climate change impacts on the water resources management and future planning;</p> <p><input type="checkbox"/> Improved knowledge of uncertainties that influence climate change adaptation measures;</p> <p><input type="checkbox"/> Improved knowledge about future water availability and future planning;</p> <p><input type="checkbox"/> Improved knowledge of land use practices impact on DWS and source protection zones definition;</p> <p><input type="checkbox"/> Improved knowledge about future water safety;</p> <p><input type="checkbox"/> Improved management practices for cross-border water supply systems;</p> <p><input type="checkbox"/> Common protocol development for the Cross-border / regional WSS and WRS management;</p> <p><input type="checkbox"/> Implementation of the priority measures for more efficient and effective WSS and WR management;</p> <p><input type="checkbox"/> Reduction of the water loss and leakage real time monitoring;</p>	

<p><input type="checkbox"/> Modern methodologies application for the real time control of: leakage, water quality, pumps schedules, etc.</p> <p><input type="checkbox"/> Development of WEB page that would improve cooperation and knowledge exchange and transfer relevant for WRM and DWS issues;</p> <p><input type="checkbox"/> Other, namely :</p>	<p>Do you think that some cross-cutting issues can be solved by:</p> <p>(Please rank them: 1 the most significant, 5 the least significant, it is possible assign the same rank to maximum two issues/problems)</p> <p><input type="checkbox"/> Policy that would address the majority of issues</p> <p><input type="checkbox"/> Separate policies that would address the majority of issues</p> <p><input type="checkbox"/> Better cooperation among different sectors</p> <p><input type="checkbox"/> Better cooperation among local and national authorities</p> <p><input type="checkbox"/> More financial resources</p> <p><input type="checkbox"/> Water tariffs</p> <p><input type="checkbox"/> Other, namely :</p>
<p>Please list the 3 most significant actors/ actions for Improved water supply and water resources management:</p>	<p>What are the actions that your institution/ organization might take to improve water supply and water resources management and contribute to its sustainability?</p>
<p>Do you think that only state activities contribute to improved water supply: <input checked="" type="checkbox"/> YES <input type="checkbox"/> No If the answer is NO please list other institutional levels of significance:</p>	<p>Your familiarity/ knowledge with role and activities of Bilateral Commissions of significance for cross – border/ regional water supply and water resources management:</p> <p><input type="checkbox"/> Comprehensive <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Deficient</p>
<p>Your familiarity/ knowledge with role and activities of Local Authorities of significance for cross – border/ regional water supply:</p> <p><input type="checkbox"/> Comprehensive <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Deficient</p>	



DRINK ADRIA

Networking for Drinking Water Supply in Adriatic Region



QUESTIONNAIRE ON CROSS BORDER /REGIONAL WATER SUPPLY SYSTEMS AND WATER RESOURCES MANAGEMENT

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Are there legislative frameworks (treaties, agreements, Memorandum of Understanding, etc.) that are significant for cross-border/ regional water supply systems and water resource management you are familiar with in your country/region: <input type="checkbox"/> YES <input checked="" type="checkbox"/> No If the answer is yes, please provide the title
Your familiarity with issues/ constraints regarding cross-border / regional water resources: <input type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Deficient Please provide additional comments if any:
Implementation level of River basin Management Plans at the national level: <input type="checkbox"/> Completed <input checked="" type="checkbox"/> Ongoing <input type="checkbox"/> Pending Please provide additional comments if any:
Implementation level of River basin Management Plans (transboundary river basins) : <input type="checkbox"/> Completed <input checked="" type="checkbox"/> Ongoing <input type="checkbox"/> Pending Please provide additional comments if any:
What are the most important topics that you would like to become more familiar regarding to cross-border /regional water supply systems and water resources management?
Do you consider this type of workshops/roundtables useful: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Neutral
Additional Comments:

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & Sustainability

Name: Surname: Institution/ Organization: (If you wish to remain anonymous, please do not fill)	VITTORIO TUNTI ACEGAS-APS MULINARI
Your Institution/ Organization mission /main scope of the work: <input checked="" type="checkbox"/> Water utility <input type="checkbox"/> Authority : <input type="checkbox"/> local <input type="checkbox"/> regional <input type="checkbox"/> national <input type="checkbox"/> Research Organization <input type="checkbox"/> Water Association <input type="checkbox"/> Other (please specify):	
Your activities are mainly focused on : <input checked="" type="checkbox"/> water supply <input type="checkbox"/> water protection <input type="checkbox"/> education/research <input type="checkbox"/> international cooperation <input type="checkbox"/> financial/ legislative <input type="checkbox"/> other, namely :	
What spatial scale reflects the best your activities and tasks? (Please use percentile estimation in a way that total amount is: 100% Example: local -55%, national -25%, other - 20%) local 20% regional 30% national 50% international _ % other, namely : _ %	
What are the main water supply management issues/ problems at the present? (Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems) <input checked="" type="checkbox"/> Losses <input checked="" type="checkbox"/> Quantity <input checked="" type="checkbox"/> Quality <input type="checkbox"/> Water tariffs <input type="checkbox"/> legislation and policy framework <input type="checkbox"/> Lack of funding <input checked="" type="checkbox"/> Infrastructure <input type="checkbox"/> Capacities : <input checked="" type="checkbox"/> institutional <input type="checkbox"/> technical <input type="checkbox"/> human <input type="checkbox"/> Climate change <input type="checkbox"/> Weak Cooperation <input type="checkbox"/> Other, namely :	

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & Sustainability

2

Please rank the following in terms of before mentioned issues/problems:
(Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

LOSSES

☐ unauthorized consumption ☐ metering errors ☐ distribution network leakage

☐ distribution network leakage ☐ water supply facilities leakage

☐ other, please specify

QUANTITY

☐ increase in water use ☐ seasonal fluctuations ☐ water storage capacities

☐ changes in land use practices ☐ high consumption by other sectors (agriculture, industry, etc)

☐ Climate Change ☐ other, please specify

QUALITY

☐ point source pollution ☐ nonpoint source pollution ☐ source protection issues

☐ changes in land use practices ☐ seasonal fluctuation ☐ Climate Change

☐ other, please specify

WATER SUPPLY DISTRIBUTION CONSTRAINTS

☐ inadequate network ☐ pumping stations capacities ☐ reservoirs deficiency

☐ poor maintenance of water supply distribution system ☐ ageing

☐ other, please specify

What are the main water supply management constraints in the near future (next 25-30 years) ?
(Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

☐ Losses ☐ Quantity ☐ Quality ☐ Water tariffs

☐ legislation and policy framework ☐ Lack of funding ☐ Infrastructure

☐ Capacities ☐ Institutional ☐ technical ☐ human

☐ Climate change ☐ Weak Cooperation ☐ Other, namely

What are the most important steps and activities that would improve water supply in terms of aforementioned issues and constraints?
(Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to different issues/problems)

☐ More information on climate change impacts on the water resources management and future planning;

☐ Improved knowledge of uncertainties that influence climate change adaptation measures;

☐ Improved knowledge about future water availability and future planning;

☐ Improved knowledge of land use practices impact on DWS and source protection zones definition;

☐ Improved knowledge about future water safety;

☐ Improved management practices for cross-border water supply systems;

☐ Common protocol development for the Cross-border / regional WSS and WRS management;

☐ Implementation of the priority measures for more efficient and effective WSS and WR management;

☐ Reduction of the water loss and leakage real time monitoring;

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & Sustainability

2

☐ Modern methodologies application for the real time control of: leakage, water quality, pumps schedules, etc.

☐ Development of WEB page that would improve cooperation and knowledge exchange and transfer relevant for WRM and DWS issues;

☐ Other, namely :

Do you think that some cross-cutting issues can be solved by:

(Please rank them: 1 the most significant, 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

☐ Policy that would address the majority of issues

☐ Separate policies that would address the majority of issues

☐ Better cooperation among different sectors

☐ Better cooperation among local and national authorities

☐ More financial resources

☐ Water tariffs

☐ Other, namely :

Please list the 3 most significant actors/ actions for improved water supply and water resources management:

Real Time control of leakage, water quality, pumps

What are the actions that your institution/ organization might take to improve water supply and water resources management and contribute to its sustainability?

Do you think that only state activities contribute to improved water supply:

☒ YES ☐ No

If the answer is NO please list other institutional levels of significance:

Your familiarity/ knowledge with role and activities of Bilateral Commissions of significance for cross – border/ regional water supply and water resources management:

☐ Comprehensive ☒ Moderate ☐ Deficient

Your familiarity/ knowledge with role and activities of Local Authorities of significance for cross – border/ regional water supply:

☐ Comprehensive ☒ Moderate ☐ Deficient

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & Sustainability



DRINKADRIA

Networking for Drinking Water Supply in Adriatic Region



QUESTIONNAIRE ON CROSS BORDER /REGIONAL WATER SUPPLY SYSTEMS AND WATER RESOURCES MANAGEMENT

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Your familiarity with issues/ constraints regarding cross-border / regional water resources: <input type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Deficient Please provide additional comments if any:
Implementation level of River basin Management Plans at the national level: <input type="checkbox"/> Completed <input checked="" type="checkbox"/> Ongoing <input type="checkbox"/> Pending Please provide additional comments if any:
Implementation level of River basin Management Plans (transboundary river basins) : <input type="checkbox"/> Completed <input checked="" type="checkbox"/> Ongoing <input type="checkbox"/> Pending Please provide additional comments if any:
What are the most important topics that you would like to become more familiar regarding to cross-border /regional water supply systems and water resources management?
Do you consider this type of workshops/roundtables useful: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Neutral
Additional Comments:

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & Sustainability

Name: Surname: Institution/ Organization: (If you wish to remain anonymous, please do not fill)	MICHELLE CAFE UD MULHOLLY
Your Institution/ Organization mission /main scope of the work: <input checked="" type="checkbox"/> Water utility <input type="checkbox"/> Authority : <input type="checkbox"/> local <input type="checkbox"/> regional <input type="checkbox"/> national <input type="checkbox"/> Research Organization <input type="checkbox"/> Water Association <input type="checkbox"/> Other (please specify):	
Your activities are mainly focused on : <input checked="" type="checkbox"/> water supply <input checked="" type="checkbox"/> water protection <input type="checkbox"/> education/research <input type="checkbox"/> international cooperation <input type="checkbox"/> financial/ legislative <input type="checkbox"/> other, namely :	
What spatial scale reflects the best your activities and tasks? (Please use percentile estimation in a way that total amount is 100% Example: local -55%, national -25%, other - 20%) local 10% regional 10% national 10% international 10% other, namely : 10% 10%	
What are the main water supply management issues/ problems at the present? (Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems) 4 Losses 5 Quantity 3 Quality <input type="checkbox"/> Water tariffs <input type="checkbox"/> legislation and policy framework <input type="checkbox"/> Lack of funding <input checked="" type="checkbox"/> Infrastructure <input type="checkbox"/> Capacities : <input type="checkbox"/> Institutional <input checked="" type="checkbox"/> technical <input type="checkbox"/> human <input type="checkbox"/> Climate change <input type="checkbox"/> Weak Cooperation <input type="checkbox"/> Other, namely :	

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & Sustainability

<p>Please rank the following in terms of before mentioned issues/problems: (Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)</p>	
<p>LOSSES</p> <p><input type="checkbox"/> Unauthorized consumption <input type="checkbox"/> metering errors <input type="checkbox"/> distribution network leakage</p> <p><input checked="" type="checkbox"/> distribution network leakage <input type="checkbox"/> water supply facilities leakage</p> <p><input type="checkbox"/> other, please specify</p>	<p>QUANTITY</p> <p><input type="checkbox"/> increase in water use <input checked="" type="checkbox"/> seasonal fluctuations <input checked="" type="checkbox"/> water storage capacities</p> <p><input type="checkbox"/> changes in land use practices <input type="checkbox"/> high consumption by other sectors (agriculture, industry, etc)</p> <p><input type="checkbox"/> Climate Change <input type="checkbox"/> other, please specify</p>
<p>QUALITY</p> <p><input type="checkbox"/> point source pollution <input type="checkbox"/> no point source pollution <input type="checkbox"/> source protection issues</p> <p><input type="checkbox"/> changes in land use practices <input type="checkbox"/> seasonal fluctuation <input type="checkbox"/> Climate Change</p> <p><input type="checkbox"/> other, please specify</p>	<p>WATER SUPPLY DISTRIBUTION CONSTRAINS</p> <p><input checked="" type="checkbox"/> inadequate network <input type="checkbox"/> pumping stations capacities <input type="checkbox"/> reservoirs deficiency</p> <p><input type="checkbox"/> poor maintenance of water supply distribution system <input type="checkbox"/> ageing</p> <p><input type="checkbox"/> other, please specify</p>
<p>What are the main water supply management constraints in the near future (next 25- 30 years) ? (Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)</p>	
<p><input type="checkbox"/> Losses <input checked="" type="checkbox"/> Quantity <input checked="" type="checkbox"/> Quality <input checked="" type="checkbox"/> Water tariffs</p> <p><input type="checkbox"/> legislation and policy framework <input type="checkbox"/> Lack of funding <input type="checkbox"/> Infrastructure</p> <p><input type="checkbox"/> Capacities : <input type="checkbox"/> Institutional <input type="checkbox"/> technical <input type="checkbox"/> human</p> <p><input type="checkbox"/> Climate change <input type="checkbox"/> Weak Cooperation <input type="checkbox"/> Other, namely</p>	<p><input type="checkbox"/> Losses <input checked="" type="checkbox"/> Quantity <input checked="" type="checkbox"/> Quality <input checked="" type="checkbox"/> Water tariffs</p> <p><input type="checkbox"/> legislation and policy framework <input type="checkbox"/> Lack of funding <input type="checkbox"/> Infrastructure</p> <p><input type="checkbox"/> Capacities : <input type="checkbox"/> Institutional <input type="checkbox"/> technical <input type="checkbox"/> human</p> <p><input type="checkbox"/> Climate change <input type="checkbox"/> Weak Cooperation <input type="checkbox"/> Other, namely</p>
<p>What are the most important steps and activities that would improve water supply in terms of aforementioned issues and constraints? (Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to different issues/problems)</p>	
<p><input type="checkbox"/> More information on climate change impacts on the water resources management and future planning;</p> <p><input type="checkbox"/> Improved knowledge of uncertainties that influence climate change adaptation measures;</p> <p><input checked="" type="checkbox"/> Improved knowledge about future water availability and future planning;</p> <p><input checked="" type="checkbox"/> Improved knowledge about future water safety;</p> <p><input checked="" type="checkbox"/> Improved knowledge about future water safety;</p> <p><input type="checkbox"/> Improved management practices for cross-border water supply systems;</p> <p><input type="checkbox"/> Common protocol development for the Cross- border / regional WSS and WMS management;</p> <p><input type="checkbox"/> Implementation of the priority measures for more efficient and effective WSS and WR management;</p> <p><input type="checkbox"/> Reduction of the water loss and leakage real time monitoring;</p>	<p><input type="checkbox"/> More information on climate change impacts on the water resources management and future planning;</p> <p><input type="checkbox"/> Improved knowledge of uncertainties that influence climate change adaptation measures;</p> <p><input checked="" type="checkbox"/> Improved knowledge about future water availability and future planning;</p> <p><input checked="" type="checkbox"/> Improved knowledge about future water safety;</p> <p><input checked="" type="checkbox"/> Improved knowledge about future water safety;</p> <p><input type="checkbox"/> Improved management practices for cross-border water supply systems;</p> <p><input type="checkbox"/> Common protocol development for the Cross- border / regional WSS and WMS management;</p> <p><input type="checkbox"/> Implementation of the priority measures for more efficient and effective WSS and WR management;</p> <p><input type="checkbox"/> Reduction of the water loss and leakage real time monitoring;</p>

<p><input type="checkbox"/> Modern methodologies application for the real time control of: leakage, water quality, pumps schedules, etc.</p> <p><input type="checkbox"/> Development of WEB page that would improve cooperation and knowledge exchange and transfer relevant for WRM and DWS issues;</p> <p><input type="checkbox"/> Other, namely :</p>	<p>Do you think that some cross-cutting issues can be solved by:</p> <p>(Please rank them: 1 the most significant, 5 the least significant, it is possible assign the same rank to maximum two issues/problems)</p> <p><input type="checkbox"/> Policy that would address the majority of issues</p> <p><input type="checkbox"/> Separate policies that would address the majority of issues</p> <p><input type="checkbox"/> Better cooperation among different sectors</p> <p><input type="checkbox"/> Better cooperation among local and national authorities</p> <p><input type="checkbox"/> More financial resources</p> <p><input type="checkbox"/> Water tariffs</p> <p><input type="checkbox"/> Other, namely :</p>
<p>Please list the 3 most significant actors/ actions for improved water supply and water resources management:</p>	<p>Please list the 3 most significant actors/ actions for improved water supply and water resources management:</p>
<p>What are the actions that your institution/ organization might take to improve water supply and water resources management and contribute to its sustainability?</p>	<p>What are the actions that your institution/ organization might take to improve water supply and water resources management and contribute to its sustainability?</p>
<p>Do you think that only state activities contribute to improved water supply:</p> <p><input type="checkbox"/> YES <input checked="" type="checkbox"/> No</p> <p>If the answer is NO please list other Institutional levels of significance:</p> <p>WATER UTILITY</p>	<p>Do you think that only state activities contribute to improved water supply:</p> <p><input type="checkbox"/> YES <input checked="" type="checkbox"/> No</p> <p>If the answer is NO please list other Institutional levels of significance:</p> <p>WATER UTILITY</p>
<p>Your familiarity/ knowledge with role and activities of Bilateral Commissions of significance for cross – border/ regional water supply and water resources management:</p> <p><input type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Deficient</p>	<p>Your familiarity/ knowledge with role and activities of Bilateral Commissions of significance for cross – border/ regional water supply and water resources management:</p> <p><input type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Deficient</p>
<p>Your familiarity/ knowledge with role and activities of Local Authorities of significance for cross – border/ regional water supply:</p> <p><input checked="" type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input type="checkbox"/> Deficient</p>	<p>Your familiarity/ knowledge with role and activities of Local Authorities of significance for cross – border/ regional water supply:</p> <p><input checked="" type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input type="checkbox"/> Deficient</p>



DRINKADRIA

Networking for Drinking Water Supply in Adriatic Region



QUESTIONNAIRE ON CROSS BORDER /REGIONAL WATER SUPPLY SYSTEMS AND WATER RESOURCES MANAGEMENT

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Name:	CARLO
Surname:	CHICOMELLO
Institution/ Organization:	AMGA SPA
(if you wish to remain anonymous, please do not fill)	MULTIUTILITY VENETO
Your Institution/ Organization mission /main scope of the work:	
<input checked="" type="checkbox"/> Water utility <input type="checkbox"/> Authority : <input type="checkbox"/> local <input type="checkbox"/> regional <input type="checkbox"/> national <input type="checkbox"/> Research Organization <input type="checkbox"/> Water Association <input type="checkbox"/> Other (please specify):	
Your activities are mainly focused on :	
<input checked="" type="checkbox"/> water supply <input type="checkbox"/> water protection <input type="checkbox"/> education/research <input type="checkbox"/> international cooperation <input type="checkbox"/> financial/ legislative <input type="checkbox"/> other, namely :	
What spatial scale reflects the best your activities and tasks? (Please use percentile estimation in a way that total amount is 100% Example: local -55%, national -25%, other - 20%)	
local 80%	regional _ % national _ % international 20% other, namely : _ %
What are the main water supply management issues/ problems at the present? (Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)	
<input checked="" type="checkbox"/> Losses 1 <input checked="" type="checkbox"/> Quantity 4 <input type="checkbox"/> Quality 2 <input type="checkbox"/> Water tariffs 1 <input type="checkbox"/> legislation and policy framework 2 <input type="checkbox"/> Lack of funding 1 <input checked="" type="checkbox"/> infrastructure 1 <input type="checkbox"/> Capacities : <input type="checkbox"/> institutional 2 <input type="checkbox"/> technical 2 <input type="checkbox"/> human 2 <input type="checkbox"/> Climate change 3 <input type="checkbox"/> Weak Cooperation 3 <input type="checkbox"/> Other, namely : 3	

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & sustainability

Are there legislative frameworks (treaties, agreements, Memorandum of Understanding, etc.) that are significant for cross-border/ regional water supply systems and water resource management you are familiar with in your country/region: <input type="checkbox"/> YES <input checked="" type="checkbox"/> No If the answer is yes, please provide the title
Your familiarity with issues/ constraints regarding cross- border / regional water resources: <input type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Deficient Please provide additional comments if any:
Implementation level of River basin Management Plans at the national level: <input type="checkbox"/> Completed <input type="checkbox"/> Ongoing <input type="checkbox"/> Pending Please provide additional comments if any:
Implementation level of River basin Management Plans (transboundary river basins) : <input type="checkbox"/> Completed <input type="checkbox"/> Ongoing <input type="checkbox"/> Pending Please provide additional comments if any:
What are the most important topics that you would like to become more familiar regarding to cross- border /regional water supply systems and water resources management? WATER QUALITY - PROTECTION - TARIFFS
Do you consider this type of workshops/roundtables useful: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Neutral
Additional Comments:

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & sustainability

Please rank the following in terms of before mentioned issues/problems:
(Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

LOSSES

☐ unauthorized consumption **5** ☐ metering errors **2** ☐ distribution network leakage

☐ distribution network leakage **1** ☐ water supply facilities leakage **4**

☐ other, please specify

QUANTITY

☐ increase in water use **4** ☐ seasonal fluctuations **1** ☐ water storage capacities **3**

☐ changes in land use practices **2** ☐ high consumption by other sectors (agriculture, industry, etc) **1**

☐ Climate Change **5** ☐ other, please specify

QUALITY

☐ point source pollution **2** ☐ nonpoint source pollution **2** ☐ source protection issues **5**

☐ changes in land use practices **1** ☐ seasonal fluctuation **3** ☐ Climate Change **3**

☐ other, please specify

WATER SUPPLY DISTRIBUTION CONSTRAINTS

☐ inadequate network **3** ☐ pumping stations capacities **1** ☐ reservoirs deficiency **2**

☐ poor maintenance of water supply distribution system **2** ☐ ageing **1**

☐ other, please specify

What are the main water supply management constraints in the near future (next 25- 30 years) ?
(Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

☐ Losses **2** ☐ Quantity **1** ☐ Quality **1** ☐ Water tariffs **1**

☐ legislation and policy framework **2** ☐ Lack of funding **1** ☐ Infrastructure **1**

☐ Capacities : ☐ Institutional ☐ technical ☐ human **5**

☐ Climate change **5** ☐ Weak Cooperation **3** ☐ Other, namely

What are the most important steps and activities that would improve water supply in terms of aforementioned issues and constraints?
(Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to different issues/problems)

☐ More information on climate change impacts on the water resources management and future planning; **5**

☐ Improved knowledge of uncertainties that influence climate change adaptation measures; **4**

☐ Improved knowledge about future water availability and future planning; **2**

☐ Improved knowledge of land use practices impact on DWS and source protection zones definition; **2**

☐ Improved knowledge about future water safety; **3**

☐ Improved management practices for cross-border water supply systems; **5**

☐ Common protocol development for the Cross-border / regional WSS and WRS management; **5**

☐ Implementation of the priority measures for more efficient and effective WSS and WR management; **1**

☐ Reduction of the water loss and leakage, real time monitoring; **1**

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & Sustainability

☐ Modern methodologies application for the real time control of: leakage, water quality, pumps schedules, etc. **1**

☐ Development of WEB page that would improve cooperation and knowledge exchange and transfer relevant for WRM and DWS issues; **5**

☐ Other, namely :

Do you think that some cross-cutting issues can be solved by:

(Please rank them: 1 the most significant, 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

☐ Policy that would address the majority of issues **1**

☐ Separate policies that would address the majority of issues **1**

☐ Better cooperation among different sectors **2**

☐ Better cooperation among local and national authorities **2**

☐ More financial resources **3**

☐ Water tariffs **4**

☐ Other, namely :

Please list the 3 most significant actors/ actions for improved water supply and water resources management:

1. ENERGY EFFICIENCY

2. PROTECTION POLICIES

What are the actions that your institution/ organization might take to improve water supply and water resources management and contribute to its sustainability?

AUTHORITIES AND WATER UTILITIES

Do you think that only state activities contribute to improved water supply:

☐ YES ☒ No

If the answer is NO please list other institutional levels of significance:

ANY STAKEHOLDER MAY CONTRIBUTE

Your familiarity/ knowledge with role and activities of Bilateral Commissions of significance for cross - border/ regional water supply and water resources management:

☐ Comprehensive ☐ Moderate ☒ Deficient

Your familiarity/ knowledge with role and activities of Local Authorities of significance for cross - border/ regional water supply:

☐ Comprehensive ☐ Moderate ☒ Deficient

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & Sustainability



Networking for Drinking Water Supply in Adriatic Region



QUESTIONNAIRE ON CROSS BORDER /REGIONAL WATER SUPPLY SYSTEMS AND WATER RESOURCES MANAGEMENT

The Capitalization and sustainability activity (CS) is an important project component that would provide framework for exchange of relevant information of significance for cross- border/ regional water supply systems among stakeholders, authorities, research institutions, etc.

Yours feedbacks collected during the national workshops provide valuable inputs and contribute to successful DRINKADRIA project implementation.

Name:	MARCO
Surname:	GATTA
Institution/ Organization: (If you wish to remain anonymous, please do not fill)	FEDERUTILITY

Your Institution/ Organization mission /main scope of the work:

☐ Water utility ☐ Authority : ☐ local, ☐ regional ☐ national
☐ Research Organization ☒ Water Association ☐ Other (please specify):

Your activities are mainly focused on :

☒ water supply ☒ water protection ☐ education/research
☐ international cooperation ☒ financial/ legislative ☐ other, namely :

What spatial scale reflects the best your activities and tasks?
 (Please use percentile estimation in a way that total amount is 100%
 Example: local -55%, national -25%, other - 20%)

local _ % regional _ % national ¹⁰⁰ _ % international _ % other, namely : _____, _ %

What are the main water supply management issues/ problems at the present?
 (Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

☐ Losses **3** ☐ Quantity **4** ☐ Quality **4** ☐ Water tariffs **1**
☐ legislation and policy framework **2** ☐ Lack of funding **2** ☐ Infrastructure **1**
☐ Capacities : ☐ institutional ☐ technical ☐ human **3**
☐ Climate change **3** ☐ Weak Cooperation ☐ Other, namely :

Please rank the following in terms of before mentioned issues/problems:

(Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

LOSSES

- ☐ unauthorized consumption **2** ☐ metering errors **2** ☐ distribution network leakage **1**
☐ distribution network leakage ☐ water supply facilities leakage **3**
☐ other, please specify: **TECHNICAL KNOW-HOW DISSEMINATION 1**

QUANTITY

- ☐ increase in water use **4** ☐ seasonal fluctuations **2** ☐ water storage capacities **2**
☐ changes in land use practices **3** ☐ high consumption by other sectors (agriculture, industry, etc) **1**
☐ Climate Change **1** ☐ other, please specify

QUALITY

- ☐ point source pollution **1** ☐ nonpoint source pollution **2** ☐ source protection issues **2**
☐ changes in land use practices **3** ☐ seasonal fluctuation **4** ☐ Climate Change **1**
☐ other, please specify

WATER SUPPLY DISTRIBUTION CONSTRAINS

- ☐ inadequate network **3** ☐ pumping stations capacities **3** ☐ reservoirs deficiency **4**
☐ poor maintenance of water supply distribution system **2** ☐ ageing **1**
☐ other, please specify

What are the main water supply management constrains in the near future (next 25- 30 years) ?

(Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

- ☐ Losses **4** ☐ Quantity **3** ☐ Quality **4** ☐ Water tariffs **2**
☐ legislation and policy framework **3** ☐ Lack of funding ☐ Infrastructure **1**
☐ Capacities : ☐ institutional ☐ technical ☐ human **5**
☐ Climate change ☐ Weak Cooperation ☐ Other, namely **5**

What are the most important steps and activities that would improve water supply in terms of aforementioned issues and constrains?

(Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to different issues/problems)

- ☐ More information on climate change impacts on the water resources management and future planning; **1**
☐ Improved knowledge of uncertainties that influence climate change adaptation measures; **5**
☐ Improved knowledge about future water availability and future planning; **1**
☐ Improved knowledge of land use practices impact on DWS and source protection zones definition; **3**
☐ Improved knowledge about future water safety; **2**
☐ Improved management practices for cross-border water supply systems; **5**
☐ Common protocol development for the Cross- border / regional WSS and WRS management; **4**
☐ Implementation of the priority measures for more efficient and effective WSS and WR management; **3**
☐ Reduction of the water loss and leakage real time monitoring; **4**

- ☐ Modern methodologies application for the real time control of: leakage, water quality, pumps schedules, etc. **2**
- ☐ Development of WEB page that would improve cooperation and knowledge exchange and transfer relevant for WRM and DWS issues; **6**
- ☐ Other, namely :

Do you think that some cross-cutting issues can be solved by:

(Please rank them: 1 the most significant , 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

- ☐ Policy that would address the majority of issues **1**
- ☐ Separate policies that would address the majority of issues **4**
- ☐ Better cooperation among different sectors **3**
- ☐ Better cooperation among local and national authorities **2**
- ☐ More financial resources **1**
- ☐ Water tariffs **3**
- ☐ Other, namely :

Please list the 3 most significant actors/ actions for improved water supply and water resources management:

- **MONEY**
- **TECHNICAL KNOW-HOW**
- **INSTITUTIONAL FRAMEWORK**

What are the actions that your institution/ organization might take to improve water supply and water resources management and contribute to its sustainability?

- **TALK TO INSTITUTIONS, PUBLIC BODIES . . .**
- **DISSEMINATE INFORMATION**

Do you think that only state activities contribute to improved water supply:

☐ YES ☒ No

If the answer is NO please list other institutional levels of significance:

- **WATER PROVIDERS**
- **ASSOCIATIONS**
- **CONSUMERS**
- **RESEARCH INSTITUTES/UNIVERSITY**

Your familiarity/ knowledge with role and activities of Bilateral Commissions of significance for cross – border/ regional water supply and water resources management:

☐ Comprehensive ☒ Moderate ☐ Deficient

Your familiarity/ knowledge with role and activities of Local Authorities of significance for cross – border/ regional water supply:

☐ Comprehensive ☒ Moderate ☐ Deficient

Are there legislative frameworks (treaties, agreements, Memorandum of Understanding, etc.) that are significant for cross-border/ regional water supply systems and water resource management you are familiar with in your country/region:

☒ YES ☐ No

If the answer is yes, please provide the title

EU DIRECTIVE 2000/60/CE

Your familiarity with issues/ constraints regarding cross- border / regional water resources:

☐ Comprehensive ☒ Moderate ☐ Deficient

Please provide additional comments if any:

Implementation level of River basin Management Plans at the national level:

☒ Completed ☒ Ongoing ☐ Pending

Please provide additional comments if any:

ALMOST COMPLETED

Implementation level of River basin Management Plans (transboundary river basins) :

☐ Completed ☒ Ongoing ☐ Pending

Please provide additional comments if any:

What are the most important topics that you would like to become more familiar regarding to cross- border /regional water supply systems and water resources management?

- ~~WATER~~ SOFT MANAGEMENT OF AQUIFERS
- CONTRACTS FOR CROSS-BORDER WATER SUPPLY

Do you consider this type of workshops/roundtables useful:

☒ Yes ☐ No ☐ Neutral

Additional Comments:



DRINKADRIA

Networking for Drinking Water Supply in Adriatic Region



QUESTIONNAIRE ON CROSS BORDER /REGIONAL WATER SUPPLY SYSTEMS AND WATER RESOURCES MANAGEMENT

The Capitalization and sustainability activity (CS) is an important project component that would provide framework for exchange of relevant information of significance for cross- border/ regional water supply systems among stakeholders, authorities, research institutions, etc.

Yours feedbacks collected during the national workshops provide valuable inputs and contribute to successful DRINKADRIA project implementation.

Are there legislative frameworks (treaties, agreements, Memorandum of Understanding, etc.) that are significant for cross-border/ regional water supply systems and water resource management you are familiar with in your country/region: <input type="checkbox"/> YES <input type="checkbox"/> No If the answer is yes, please provide the title
Your familiarity with issues/ constraints regarding cross- border / regional water resources: <input type="checkbox"/> Comprehensive <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Deficient Please provide additional comments if any:
Implementation level of River basin Management Plans at the national level: <input type="checkbox"/> Completed <input type="checkbox"/> Ongoing <input checked="" type="checkbox"/> Pending Please provide additional comments if any:
Implementation level of River basin Management Plans (transboundary river basins) : <input type="checkbox"/> Completed <input type="checkbox"/> Ongoing <input checked="" type="checkbox"/> Pending Please provide additional comments if any:
What are the most important topics that you would like to become more familiar regarding to cross- border /regional water supply systems and water resources management?
Do you consider this type of workshops/roundtables useful: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Neutral
Additional Comments:

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & Sustainability

Name: Surname: Institution/ Organization: (if you wish to remain anonymous, please do not fill)	LUIGI COLUCCI ARPA F.V.G. - LABORATORIO RIVERISTE
Your Institution/ Organization mission /main scope of the work: <input type="checkbox"/> Water utility <input checked="" type="checkbox"/> Authority : <input checked="" type="checkbox"/> local <input checked="" type="checkbox"/> regional <input type="checkbox"/> national <input type="checkbox"/> Research Organization <input type="checkbox"/> Water Association <input type="checkbox"/> Other (please specify):	
Your activities are mainly focused on : <input type="checkbox"/> water supply <input checked="" type="checkbox"/> water protection <input type="checkbox"/> education/research <input type="checkbox"/> international cooperation <input type="checkbox"/> financial/ legislative <input type="checkbox"/> other, namely :	
What spatial scale reflects the best your activities and tasks? (Please use percentile estimation in a way that total amount is 100% Example: local -55%, national -25%, other - 20%) SO local _ % regional _ % national _ % international _ % other, namely : _ %	
What are the main water supply management issues/ problems at the present? (Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems) <input type="checkbox"/> Losses <input type="checkbox"/> Quantity <input type="checkbox"/> Quality <input type="checkbox"/> Water tariffs <input type="checkbox"/> legislation and policy framework <input type="checkbox"/> Lack of funding <input type="checkbox"/> Infrastructure <input type="checkbox"/> Capacities : <input type="checkbox"/> institutional <input type="checkbox"/> technical <input type="checkbox"/> human <input type="checkbox"/> Climate change <input type="checkbox"/> Weak Cooperation <input type="checkbox"/> Other, namely :	

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & Sustainability

<p>Please rank the following in terms of before mentioned issues/problems: (Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)</p> <p>LOSSES</p> <p>3 <input type="checkbox"/> unauthorized consumption 5 <input type="checkbox"/> metering errors 4 <input type="checkbox"/> distribution network leakage 2 <input type="checkbox"/> water supply facilities leakage <input type="checkbox"/> other, please specify</p> <p>QUANTITY</p> <p>4 <input type="checkbox"/> increase in water use 5 <input type="checkbox"/> seasonal fluctuations 5 <input type="checkbox"/> water storage capacities 2 <input type="checkbox"/> changes in land use practices <input type="checkbox"/> high consumption by other sectors (agriculture, industry, etc) 5 <input type="checkbox"/> Climate Change <input type="checkbox"/> other, please specify</p> <p>QUALITY</p> <p>4 <input type="checkbox"/> point source pollution 2 <input type="checkbox"/> nonpoint source pollution 2 <input type="checkbox"/> source protection issues 3 <input type="checkbox"/> changes in land use practices 5 <input type="checkbox"/> seasonal fluctuation 5 <input type="checkbox"/> Climate Change <input type="checkbox"/> other, please specify</p> <p>WATER SUPPLY DISTRIBUTION CONSTRAINTS</p> <p>5 <input type="checkbox"/> inadequate network 3 <input type="checkbox"/> pumping stations capacities 4 <input type="checkbox"/> reservoirs deficiency 4 <input type="checkbox"/> poor maintenance of water supply distribution system 4 <input type="checkbox"/> ageing <input type="checkbox"/> other, please specify</p>	<p>What are the main water supply management constraints in the near future (next 25-30 years) ? (Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)</p> <p>4 <input type="checkbox"/> Losses 4 <input type="checkbox"/> Quantity 5 <input type="checkbox"/> Quality 4 <input type="checkbox"/> Water tariffs 4 <input type="checkbox"/> legislation and policy framework 4 <input type="checkbox"/> Lack of funding 2 <input type="checkbox"/> Infrastructure 2 <input type="checkbox"/> Capacities 2 <input type="checkbox"/> institutional 3 <input type="checkbox"/> technical 3 <input type="checkbox"/> human 5 <input type="checkbox"/> Climate change 3 <input type="checkbox"/> Weak Cooperation <input type="checkbox"/> Other, namely</p>
<p>What are the most important steps and activities that would improve water supply in terms of aforementioned issues and constraints? (Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to different issues/problems)</p> <p>5 <input type="checkbox"/> More information on climate change impacts on the water resources management and future planning; 5 <input type="checkbox"/> Improved knowledge of uncertainties that influence climate change adaptation measures; 4 <input type="checkbox"/> Improved knowledge about future water availability and future planning; 2 <input type="checkbox"/> Improved knowledge of land use practices impact on DWS and source protection zones definition; 2 <input type="checkbox"/> Improved knowledge about future water safety; 3 <input type="checkbox"/> Improved management practices for cross-border water supply systems; 3 <input type="checkbox"/> Common protocol development for the Cross-border / regional WSS and WRS management; 4 <input type="checkbox"/> Implementation of the priority measures for more efficient and effective WSS and WR management; 4 <input type="checkbox"/> Reduction of the water loss and leakage real time monitoring;</p>	

<p>4 <input type="checkbox"/> Modern methodologies application for the real time control of: leakage, water quality, pumps schedules, etc. 4 <input type="checkbox"/> Development of WEB page that would improve cooperation and knowledge exchange and transfer relevant for WRM and DWS issues; <input type="checkbox"/> Other, namely :</p>	<p>Do you think that some cross-cutting issues can be solved by: (Please rank them: 1 the most significant, 5 the least significant, it is possible assign the same rank to maximum two issues/problems)</p> <p>4 <input type="checkbox"/> Policy that would address the majority of issues 3 <input type="checkbox"/> Separate policies that would address the majority of issues 4 <input type="checkbox"/> Better cooperation among different sectors 4 <input type="checkbox"/> Better cooperation among local and national authorities 5 <input type="checkbox"/> More financial resources 2 <input type="checkbox"/> Water tariffs <input type="checkbox"/> Other, namely :</p>
<p>Please list the 3 most significant actors/ actions for improved water supply and water resources management: REUSE OF WASTE WATER NOT FOR HUMAN CONSUMPTION WATER LEAKAGE REDUCTION PROTECTION OF ENVIRONMENT</p>	<p>What are the actions that your institution/ organization might take to improve water supply and water resources management and contribute to its sustainability? MAINTAINING OF HUMAN AND ECONOMIC RESOURCES FOR LAND CONTROL EMPOWERMENT OF COMPETENCE AND PROFESSIONALITY</p>
<p>Do you think that only state activities contribute to improved water supply: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO If the answer is NO please list other institutional levels of significance: REGIONAL, LOCAL, TRANSBOUNDARY COOPERATION</p>	<p>Your familiarity/ knowledge with role and activities of Bilateral Commissions of significance for cross – border/ regional water supply and water resources management: <input type="checkbox"/> Comprehensive <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Deficient</p>
<p>Your familiarity/ knowledge with role and activities of Local Authorities of significance for cross – border/ regional water supply: <input type="checkbox"/> Comprehensive <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Deficient</p>	



DRINKADRIA

Networking for Drinking Water Supply in Adriatic Region



QUESTIONNAIRE ON CROSS BORDER /REGIONAL WATER SUPPLY SYSTEMS AND WATER RESOURCES MANAGEMENT

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Yours feedbacks collected during the national workshops provide valuable inputs and contribute to successful DRINKADRIA project implementation.

Are there legislative frameworks (treaties, agreements, Memorandum of Understanding, etc.) that are significant for cross-border/ regional water supply systems and water resource management you are familiar with in your country/region: <input checked="" type="checkbox"/> YES <input type="checkbox"/> No If the answer is yes, please provide the title <u>TREATY OF OSIMO</u>
Your familiarity with issues/ constraints regarding cross- border / regional water resources: <input type="checkbox"/> Comprehensive <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Deficient Please provide additional comments if any:
Implementation level of River basin Management Plans at the national level: <input checked="" type="checkbox"/> Completed <input type="checkbox"/> Ongoing <input type="checkbox"/> Pending Please provide additional comments if any:
Implementation level of River basin Management Plans (transboundary river basins) : <input checked="" type="checkbox"/> Completed <input type="checkbox"/> Ongoing <input type="checkbox"/> Pending Please provide additional comments if any:
What are the most important topics that you would like to become more familiar regarding to cross- border /regional water supply systems and water resources management? <u>CROSS BORDER AGREEMENT AND TREATY</u>
Do you consider this type of workshops/roundtables useful: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Neutral
Additional Comments:

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & Sustainability

Name: Surname: Institution/ Organization: (If you wish to remain anonymous, please do not fill)	<u>ALBERTO</u> <u>CIOTTO</u> <u>AUTOREGOLIA BACALO DEI FUMI DELIATO</u> <u>ARMANDO</u>
Your Institution/ Organization mission /main scope of the work: <input type="checkbox"/> Water utility <input checked="" type="checkbox"/> Authority : <input type="checkbox"/> local <input type="checkbox"/> regional <input type="checkbox"/> national <input type="checkbox"/> Research Organization <input type="checkbox"/> Water Association <input type="checkbox"/> Other (please specify):	
Your activities are mainly focused on : <input type="checkbox"/> water supply <input checked="" type="checkbox"/> water protection <input type="checkbox"/> education/research <input type="checkbox"/> international cooperation <input type="checkbox"/> financial/ legislative <input type="checkbox"/> other, namely :	
What spatial scale reflects the best your activities and tasks? (Please use percentile estimation in a way that total amount is 100% Example: local -55%, national -25%, other - 20%) local _ % regional _ % national _ % international _ % other, namely : _ %	<u>40</u> <u>40</u> <u>10</u> <u>10</u> <u>0</u>
What are the main water supply management issues/ problems at the present? (Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)	<input checked="" type="checkbox"/> Losses <input checked="" type="checkbox"/> Quantity <input checked="" type="checkbox"/> Quality <input checked="" type="checkbox"/> Water tariffs <input checked="" type="checkbox"/> legislation and policy framework <input type="checkbox"/> Lack of funding <input type="checkbox"/> Infrastructure <input type="checkbox"/> Capacities : <input type="checkbox"/> institutional <input type="checkbox"/> technical <input type="checkbox"/> human <input checked="" type="checkbox"/> Climate change <input type="checkbox"/> Weak Cooperation <input type="checkbox"/> Other, namely :

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & Sustainability

<p>Please rank the following in terms of before mentioned issues/problems: (Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)</p>	
<p>LOSSES</p> <p><input type="checkbox"/> unauthorized consumption <input type="checkbox"/> metering errors <input type="checkbox"/> distribution network leakage</p> <p><input type="checkbox"/> distribution network leakage <input checked="" type="checkbox"/> water supply facilities leakage <input type="checkbox"/> other, please specify</p>	<p><input type="checkbox"/> increase in water use <input checked="" type="checkbox"/> seasonal fluctuations <input checked="" type="checkbox"/> water storage capacities</p> <p><input checked="" type="checkbox"/> changes in land use practices <input type="checkbox"/> high consumption by other sectors (agriculture, industry, etc)</p> <p><input type="checkbox"/> Climate Change <input type="checkbox"/> other, please specify</p>
<p>QUANTITY</p> <p><input checked="" type="checkbox"/> point source pollution <input checked="" type="checkbox"/> nonpoint source pollution <input checked="" type="checkbox"/> source protection issues</p> <p><input checked="" type="checkbox"/> changes in land use practices <input type="checkbox"/> seasonal fluctuation <input type="checkbox"/> Climate Change</p> <p><input type="checkbox"/> other, please specify</p>	<p>QUALITY</p> <p><input type="checkbox"/> inadequate network <input checked="" type="checkbox"/> pumping stations capacities <input checked="" type="checkbox"/> reservoirs deficiency</p> <p><input type="checkbox"/> poor maintenance of water supply distribution system <input type="checkbox"/> ageing</p> <p><input type="checkbox"/> other, please specify</p>
<p>WATER SUPPLY DISTRIBUTION CONSTRAINTS</p> <p><input type="checkbox"/> inadequate network <input checked="" type="checkbox"/> pumping stations capacities <input checked="" type="checkbox"/> reservoirs deficiency</p> <p><input type="checkbox"/> poor maintenance of water supply distribution system <input type="checkbox"/> ageing</p> <p><input type="checkbox"/> other, please specify</p>	
<p>What are the main water supply management constraints in the near future (next 25-30 years) ? (Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)</p>	
<p><input checked="" type="checkbox"/> Losses <input checked="" type="checkbox"/> Quantity <input checked="" type="checkbox"/> Quality <input checked="" type="checkbox"/> Water tariffs</p> <p><input checked="" type="checkbox"/> legislation and policy framework <input type="checkbox"/> Lack of funding <input type="checkbox"/> Infrastructure</p> <p><input type="checkbox"/> Capacities : <input type="checkbox"/> institutional <input type="checkbox"/> technical <input type="checkbox"/> human</p> <p><input type="checkbox"/> Climate change <input type="checkbox"/> Weak Cooperation <input type="checkbox"/> Other, namely</p>	<p><input type="checkbox"/> Losses <input type="checkbox"/> Quantity <input type="checkbox"/> Quality <input type="checkbox"/> Water tariffs</p> <p><input type="checkbox"/> legislation and policy framework <input type="checkbox"/> Lack of funding <input type="checkbox"/> Infrastructure</p> <p><input type="checkbox"/> Capacities : <input type="checkbox"/> institutional <input type="checkbox"/> technical <input type="checkbox"/> human</p> <p><input type="checkbox"/> Climate change <input type="checkbox"/> Weak Cooperation <input type="checkbox"/> Other, namely</p>
<p>What are the most important steps and activities that would improve water supply in terms of aforementioned issues and constraints? (Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to different issues/problems)</p>	
<p><input checked="" type="checkbox"/> More information on climate change impacts on the water resources management and future planning;</p> <p><input checked="" type="checkbox"/> Improved knowledge of uncertainties that influence climate change adaptation measures;</p> <p><input checked="" type="checkbox"/> Improved knowledge about future water availability and future planning;</p> <p><input checked="" type="checkbox"/> Improved knowledge about future water safety;</p> <p><input type="checkbox"/> Improved management practices for cross-border water supply systems;</p> <p><input type="checkbox"/> Common protocol development for the Cross- border / regional WSS and WRS management;</p> <p><input type="checkbox"/> Implementation of the priority measures for more efficient and effective WSS and WR management;</p> <p><input type="checkbox"/> Reduction of the water loss and leakage real time monitoring;</p>	<p><input type="checkbox"/> More information on climate change impacts on the water resources management and future planning;</p> <p><input type="checkbox"/> Improved knowledge of uncertainties that influence climate change adaptation measures;</p> <p><input type="checkbox"/> Improved knowledge about future water availability and future planning;</p> <p><input type="checkbox"/> Improved knowledge about future water safety;</p> <p><input type="checkbox"/> Improved management practices for cross-border water supply systems;</p> <p><input type="checkbox"/> Common protocol development for the Cross- border / regional WSS and WRS management;</p> <p><input type="checkbox"/> Implementation of the priority measures for more efficient and effective WSS and WR management;</p> <p><input type="checkbox"/> Reduction of the water loss and leakage real time monitoring;</p>

<p><input type="checkbox"/> Modern methodologies application for the real time control of: leakage, water quality, pumps schedules, etc.</p> <p><input type="checkbox"/> Development of WEB page that would improve cooperation and knowledge exchange and transfer relevant for WRM and DWS issues;</p> <p><input type="checkbox"/> Other, namely :</p>	<p>Do you think that some cross-cutting issues can be solved by:</p> <p>(Please rank them: 1 the most significant, 5 the least significant, it is possible assign the same rank to maximum two issues/problems)</p> <p><input type="checkbox"/> Policy that would address the majority of issues</p> <p><input type="checkbox"/> Separate policies that would address the majority of issues</p> <p><input type="checkbox"/> Better cooperation among different sectors</p> <p><input type="checkbox"/> Better cooperation among local and national authorities</p> <p><input type="checkbox"/> More financial resources</p> <p><input type="checkbox"/> Water tariffs</p> <p><input type="checkbox"/> Other, namely :</p>
<p>Please list the 3 most significant actors/ actions for improved water supply and water resources management:</p> <p>CATO REGION HYDRAULIC SERVICE</p>	<p>What are the actions that your institution/ organization might take to improve water supply and water resources management and contribute to its sustainability?</p> <p>ACTIONS OF THE MANAGEMENT PLAN (DIR 2000/60 CE)</p>
<p>Do you think that only state activities contribute to improved water supply:</p> <p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p> <p>If the answer is NO please list other institutional levels of significance:</p> <p>REGION AND CATO</p>	<p>Your familiarity/ knowledge with role and activities of Bilateral Commissions of significance for cross – border/ regional water supply and water resources management:</p> <p><input checked="" type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input type="checkbox"/> Deficient</p>
<p>Your familiarity/ knowledge with role and activities of Local Authorities of significance for cross – border/ regional water supply:</p> <p><input checked="" type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input type="checkbox"/> Deficient</p>	<p>Your familiarity/ knowledge with role and activities of Local Authorities of significance for cross – border/ regional water supply:</p> <p><input checked="" type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input type="checkbox"/> Deficient</p>



DRINKADRIA

Networking for Drinking Water Supply in Adriatic Region



QUESTIONNAIRE ON CROSS BORDER /REGIONAL WATER SUPPLY SYSTEMS AND WATER RESOURCES MANAGEMENT

The Capitalization and sustainability activity (CS) is an important project component that would provide framework for exchange of relevant information of significance for cross- border/ regional water supply systems among stakeholders, authorities, research institutions, etc.

Yours feedbacks collected during the national workshops provide valuable inputs and contribute to successful DRINKADRIA project implementation.

Are there legislative frameworks (treaties, agreements, Memorandum of Understanding, etc.) that are significant for cross-border/ regional water supply systems and water resource management you are familiar with in your country/region: <input type="checkbox"/> YES <input checked="" type="checkbox"/> No If the answer is yes, please provide the title
Your familiarity with issues/ constraints regarding cross- border / regional water resources: <input type="checkbox"/> Comprehensive <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Deficient Please provide additional comments if any:
Implementation level of River basin Management Plans at the national level: <input type="checkbox"/> Completed <input checked="" type="checkbox"/> Ongoing <input type="checkbox"/> Pending Please provide additional comments if any:
Implementation level of River basin Management Plans (transboundary river basins) : <input type="checkbox"/> Completed <input checked="" type="checkbox"/> Ongoing <input type="checkbox"/> Pending Please provide additional comments if any:
What are the most important topics that you would like to become more familiar regarding to cross- border /regional water supply systems and water resources management?
Do you consider this type of workshops/roundtables useful: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Neutral
Additional Comments:

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & Sustainability

Name: Surname: Institution/ Organization: (If you wish to remain anonymous, please do not fill)	PAOLO PLOSSE PROVINCE OF TRIESTE (I)
Your Institution/ Organization mission /main scope of the work: <input type="checkbox"/> Water utility <input checked="" type="checkbox"/> Authority : <input checked="" type="checkbox"/> local <input type="checkbox"/> regional <input type="checkbox"/> national <input type="checkbox"/> Research Organization <input type="checkbox"/> Water Association <input type="checkbox"/> Other (please specify):	
Your activities are mainly focused on : <input type="checkbox"/> water supply <input checked="" type="checkbox"/> water protection <input type="checkbox"/> education/research <input type="checkbox"/> international cooperation <input type="checkbox"/> financial/ legislative <input type="checkbox"/> other, namely :	
What spatial scale reflects the best your activities and tasks? (Please use percentile estimation in a way that total amount is 100% Example: local -55% national -25% other - 20%) local 80% regional 20% national _ % international _ % other, namely : _ %	
What are the main water supply management issues/ problems at the present? (Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems) <input type="checkbox"/> Losses <input type="checkbox"/> Quantity <input checked="" type="checkbox"/> Quality <input type="checkbox"/> Water tariffs <input checked="" type="checkbox"/> legislation and policy framework <input type="checkbox"/> Lack of funding <input checked="" type="checkbox"/> Infrastructure <input checked="" type="checkbox"/> Capacities : <input type="checkbox"/> Institutional <input type="checkbox"/> technical <input type="checkbox"/> human <input checked="" type="checkbox"/> Climate change <input type="checkbox"/> Weak Cooperation <input type="checkbox"/> Other, namely :	

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & Sustainability

<p>Please rank the following in terms of before mentioned issues/problems: (Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)</p> <p>LOSSES</p> <p><input type="checkbox"/> unauthorized consumption 4 <input type="checkbox"/> metering errors 3 <input type="checkbox"/> distribution network leakage</p> <p><input type="checkbox"/> distribution network leakage 1 <input type="checkbox"/> water supply facilities leakage 2</p> <p><input type="checkbox"/> other, please specify</p> <p>QUANTITY</p> <p><input type="checkbox"/> increase in water use 4 <input type="checkbox"/> seasonal fluctuations 3 <input type="checkbox"/> water storage capacities</p> <p><input type="checkbox"/> changes in land use practices 2 <input type="checkbox"/> high consumption by other sectors (agriculture, industry, etc) 1</p> <p><input type="checkbox"/> Climate Change 5 <input type="checkbox"/> other, please specify</p> <p>QUALITY</p> <p><input type="checkbox"/> point source pollution 2 <input type="checkbox"/> nonpoint source pollution 1 <input type="checkbox"/> source protection issues 3</p> <p><input type="checkbox"/> changes in land use practices 5 <input type="checkbox"/> seasonal fluctuation 4 <input type="checkbox"/> Climate Change</p> <p><input type="checkbox"/> other, please specify</p> <p>WATER SUPPLY DISTRIBUTION CONSTRAINTS</p> <p><input type="checkbox"/> inadequate network 2 <input type="checkbox"/> pumping stations capacities <input type="checkbox"/> reservoirs deficiency</p> <p><input type="checkbox"/> poor maintenance of water supply distribution system 3 <input type="checkbox"/> ageing 1</p> <p><input type="checkbox"/> other, please specify</p>	<p>What are the main water supply management constraints in the near future (next 25-30 years) ? (Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)</p> <p><input type="checkbox"/> Losses <input type="checkbox"/> Quantity 5 <input type="checkbox"/> Quality 1 <input type="checkbox"/> Water tariffs 4</p> <p><input type="checkbox"/> legislation and policy framework <input type="checkbox"/> Lack of funding 2 <input type="checkbox"/> Infrastructure 3</p> <p><input type="checkbox"/> Capacities : <input type="checkbox"/> Institutional <input type="checkbox"/> technical <input type="checkbox"/> human</p> <p><input type="checkbox"/> Climate change <input type="checkbox"/> Weak Cooperation <input type="checkbox"/> Other, namely</p>
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<p><input type="checkbox"/> Modern methodologies application for the real time control of: leakage, water quality, pumps schedules, etc.</p> <p><input type="checkbox"/> Development of WEB page that would improve cooperation and knowledge exchange and transfer relevant for WRM and DWS issues;</p> <p><input type="checkbox"/> Other, namely :</p>	<p>Do you think that some cross-cutting issues can be solved by:</p> <p>(Please rank them: 1 the most significant, 5 the least significant, it is possible assign the same rank to maximum two issues/problems)</p> <p><input type="checkbox"/> Policy that would address the majority of issues</p> <p><input type="checkbox"/> Separate policies that would address the majority of issues</p> <p><input type="checkbox"/> Better cooperation among different sectors</p> <p><input type="checkbox"/> Better cooperation among local and national authorities</p> <p><input type="checkbox"/> More financial resources</p> <p><input type="checkbox"/> Water tariffs</p> <p><input type="checkbox"/> Other, namely :</p>
<p>Please list the 3 most significant actors/ actions for improved water supply and water resources management:</p>	<p>What are the actions that your institution/ organization might take to improve water supply and water resources management and contribute to its sustainability?</p>
<p>Do you think that only state activities contribute to improved water supply:</p> <p><input type="checkbox"/> YES <input checked="" type="checkbox"/> No</p> <p>If the answer is NO please list other institutional levels of significance: LOCAL (REGIONAL)</p>	<p>Your familiarity/ knowledge with role and activities of Bilateral Commissions of significance for cross – border/ regional water supply and water resources management:</p> <p><input type="checkbox"/> Comprehensive <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Deficient</p>
<p>Your familiarity/ knowledge with role and activities of Local Authorities of significance for cross – border/ regional water supply:</p> <p><input checked="" type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input type="checkbox"/> Deficient</p>	



DRINKADRIA

Networking for Drinking Water Supply in Adriatic Region



QUESTIONNAIRE ON CROSS BORDER /REGIONAL WATER SUPPLY SYSTEMS AND WATER RESOURCES MANAGEMENT

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Name:	Bruno
Surname:	BELLA
Institution/ Organization:	DEPT. OF ENGINEERING / ARCHITECTURE
(If you wish to remain anonymous, please do not fill)	TRIESTE UNIVERSITY
Your Institution/ Organization mission /main scope of the work:	
<input type="checkbox"/> Water utility <input type="checkbox"/> Authority <input type="checkbox"/> local <input type="checkbox"/> regional <input type="checkbox"/> national <input checked="" type="checkbox"/> Research Organization <input type="checkbox"/> Water Association <input type="checkbox"/> Other (please specify):	
Your activities are mainly focused on :	
<input type="checkbox"/> water supply <input checked="" type="checkbox"/> water protection <input checked="" type="checkbox"/> education/research <input type="checkbox"/> international cooperation <input type="checkbox"/> financial/ legislative <input type="checkbox"/> other, namely :	
What spatial scale reflects the best your activities and tasks? (Please use percentile estimation in a way that total amount is 100% Example: local -55% national -25%, other - 20%)	
local 30%	regional 40%
national 20%	international 10%
other, namely : _ %	
What are the main water supply management issues/ problems at the present? (Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)	
<input checked="" type="checkbox"/> Losses <input checked="" type="checkbox"/> Quantity <input checked="" type="checkbox"/> Quality <input checked="" type="checkbox"/> Water tariffs <input checked="" type="checkbox"/> Legislation and policy framework <input checked="" type="checkbox"/> Lack of funding <input checked="" type="checkbox"/> Infrastructure <input checked="" type="checkbox"/> Capacities : <input checked="" type="checkbox"/> Institutional <input type="checkbox"/> technical <input type="checkbox"/> human <input type="checkbox"/> Climate change <input checked="" type="checkbox"/> Weak Cooperation <input type="checkbox"/> Other, namely :	

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & Sustainability

Are there legislative frameworks (treaties, agreements, Memorandum of Understanding, etc.) that are significant for cross-border/ regional water supply systems and water resource management you are familiar with in your country/region: <input checked="" type="checkbox"/> YES <input type="checkbox"/> No If the answer is yes, please provide the title
Your familiarity with issues/ constraints regarding cross- border / regional water resources: <input type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Deficient Please provide additional comments if any:
Implementation level of River basin Management Plans at the national level: <input checked="" type="checkbox"/> Completed <input type="checkbox"/> Ongoing <input type="checkbox"/> Pending
Please provide additional comments if any: GAP-UK on ANGA udine
Implementation level of River basin Management Plans (transboundary river basins) : <input type="checkbox"/> Completed <input type="checkbox"/> Ongoing <input type="checkbox"/> Pending
Please provide additional comments if any:
What are the most important topics that you would like to become more familiar regarding to cross- border /regional water supply systems and water resources management?
Do you consider this type of workshops/roundtables useful: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Neutral
Additional Comments: WATER - ENVIRONMENT - ENERGY: SEA WATER DESALINATION BY LOCAL RENEWABLE ENERGY SOURCES, ALONG THE LOCAL - COASTAL ADRIATIC COMMUNITIES / CITIES, SHOULD BE CONSIDERED FOR THE COUNTRIES WITH WELL GROUND WATER RESOURCES AVAILABLE NEAR BY.

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & Sustainability

Please rank the following in terms of before mentioned issues/problems:
(Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

2 ☐ unauthorized consumption
☐ distribution network leakage
☐ other, please specify

1 ☐ increase in water use
☐ changes in land use practices
☐ Climate Change

3 ☐ metering errors
☐ water supply facilities leakage
☐ other, please specify

1 ☐ seasonal fluctuations
☐ high consumption by other sectors (agriculture, industry, etc)
☐ other, please specify

2 ☐ point source pollution
☐ changes in land use practices
☐ other, please specify

3 ☐ nonpoint source pollution
☐ seasonal fluctuation
☐ source protection issues
☐ Climate Change

WATER SUPPLY DISTRIBUTION CONSTRAINTS

1 ☐ inadequate network
☐ poor maintenance of water supply distribution system
☐ other, please specify

2 ☐ pumping stations capacities
☐ reservoirs deficiency
☐ ageing

What are the main water supply management constraints in the near future (next 25-30 years)?
(Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

2 ☐ Losses
☐ legislation and policy framework
☐ Capacities: ☒ institutional ☐ technical ☐ human
☐ Climate change ☒ Weak Cooperation ☐ Other, namely

1 ☐ Quantity ☐ Quality
☐ Water tariffs
☐ Lack of funding
☐ Infrastructure

What are the most important steps and activities that would improve water supply in terms of aforementioned issues and constraints?
(Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to different issues/problems)

2 ☐ More information on climate change impacts on the water resources management and future planning;
☐ Improved knowledge of uncertainties that influence climate change adaptation measures;
☐ Improved knowledge about future water availability and future planning;
☐ Improved knowledge of land use practices impact on DWS and source protection zones definition;
☐ Improved knowledge about future water safety;
☐ Improved management practices for cross-border water supply systems;
☐ Common protocol development for the Cross-border / regional WSS and WRS management;
☐ Implementation of the priority measures for more efficient and effective WSS and WR management;
☐ Reduction of the water loss and leakage real time monitoring;

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & Sustainability

☐ Modern methodologies application for the real time control of: leakage, water quality, pumps schedules, etc.
☐ Development of WEB page that would improve cooperation and knowledge exchange and transfer relevant for WRM and DWS issues;
☐ Other, namely :

2

Do you think that some cross-cutting issues can be solved by:

(Please rank them: 1 the most significant, 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

1 ☐ Policy that would address the majority of issues
☐ Separate policies that would address the majority of issues
☐ Better cooperation among different sectors
☐ Better cooperation among local and national authorities
☐ More financial resources
☐ Water tariffs
☐ Other, namely : LONG TERM PLANNING / MANAGEMENT GUINELINESES

2

Please list the 3 most significant actors/ actions for improved water supply and water resources management:

1 ☐ FINANCIAL RESOURCES
☐ ADEQUATE POLICY AND TARIFF PLANS
☐ BETTER COOPERATION

2

What are the actions that your institution/ organization might take to improve water supply and water resources management and contribute to its sustainability?

1 ☐ AQUIFER CHARACTERIZATION / MONITORING
☐ HAZARD / RISK ASSESSMENT STUDIES

2

Do you think that only state activities contribute to improved water supply:
☐ YES ☒ NO
If the answer is NO please list other institutional levels of significance:
☐ REGIONAL / TRANS-REGIONAL LEVELS
☐ LINK TO LOCAL NETWORK USERS
☐ EDUCATION / DISSEMINATION OF BEST PRACTICES

3

Your familiarity/ knowledge with role and activities of Bilateral Commissions of significance for cross - border/ regional water supply and water resources management:

☐ Comprehensive ☐ Moderate ☒ Deficient

4

Your familiarity/ knowledge with role and activities of Local Authorities of significance for cross - border/ regional water supply:

☐ Comprehensive ☒ Moderate ☐ Deficient

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & Sustainability



DRINK ADRIA

Networking for Drinking Water Supply in Adriatic Region



QUESTIONNAIRE ON CROSS BORDER /REGIONAL WATER SUPPLY SYSTEMS AND WATER RESOURCES MANAGEMENT

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Your familiarity with issues/ constraints regarding cross- border / regional water resources: <input type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Deficient Please provide additional comments if any:
Implementation level of River basin Management Plans at the national level: <input type="checkbox"/> Completed <input checked="" type="checkbox"/> Ongoing <input type="checkbox"/> Pending Please provide additional comments if any:
Implementation level of River basin Management Plans (transboundary river basins) : <input type="checkbox"/> Completed <input checked="" type="checkbox"/> Ongoing <input type="checkbox"/> Pending Please provide additional comments if any:
What are the most important topics that you would like to become more familiar regarding to cross- border /regional water supply systems and water resources management?
Do you consider this type of workshops/roundtables useful: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Neutral
Additional Comments:

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & Sustainability

Name: Surname: Institution/ Organization: (If you wish to remain anonymous, please do not fill)	ANDREA RUBIN ACEGAS-APS MULINOVIC
Your Institution/ Organization mission /main scope of the work: <input checked="" type="checkbox"/> Water utility <input type="checkbox"/> Authority : <input type="checkbox"/> local <input type="checkbox"/> regional <input type="checkbox"/> national <input type="checkbox"/> Research Organization <input type="checkbox"/> Water Association <input type="checkbox"/> Other (please specify):	
Your activities are mainly focused on : <input checked="" type="checkbox"/> water supply <input type="checkbox"/> water protection <input type="checkbox"/> education/research <input type="checkbox"/> international cooperation <input type="checkbox"/> financial/ legislative <input type="checkbox"/> other, namely :	
What spatial scale reflects the best your activities and tasks? (Please use percentile estimation in a way that total amount is 100% Example: local -55%, national -25%, other - 20%) local 40% regional 30% national 50% international 10% other, namely : _ %	
What are the main water supply management issues/ problems at the present? (Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems) <input type="checkbox"/> Losses 5 <input type="checkbox"/> Quantity 2 <input type="checkbox"/> Quality <input type="checkbox"/> Water tariffs <input type="checkbox"/> legislation and policy framework <input type="checkbox"/> Lack of funding 4 <input type="checkbox"/> Infrastructure <input type="checkbox"/> Capacities : <input type="checkbox"/> Institutional <input type="checkbox"/> technical <input type="checkbox"/> human <input type="checkbox"/> Climate change <input type="checkbox"/> Weak Cooperation <input type="checkbox"/> Other, namely :	

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & Sustainability

<p>Please rank the following in terms of before mentioned issues/problems: (Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)</p> <p>LOSSES</p> <p><input type="checkbox"/> unauthorized consumption <input type="checkbox"/> metering errors <input type="checkbox"/> distribution network leakage</p> <p><input type="checkbox"/> distribution network leakage <input type="checkbox"/> water supply facilities leakage</p> <p><input type="checkbox"/> other, please specify</p> <p>QUANTITY</p> <p><input type="checkbox"/> increase in water use <input type="checkbox"/> seasonal fluctuations <input type="checkbox"/> water storage capacities</p> <p><input type="checkbox"/> changes in land use practices <input type="checkbox"/> high consumption by other sectors (agriculture, industry, etc)</p> <p><input type="checkbox"/> Climate Change <input type="checkbox"/> other, please specify</p> <p>QUALITY</p> <p><input type="checkbox"/> point source pollution <input type="checkbox"/> nonpoint source pollution <input type="checkbox"/> source protection issues</p> <p><input type="checkbox"/> changes in land use practices <input type="checkbox"/> seasonal fluctuation <input type="checkbox"/> Climate Change</p> <p><input type="checkbox"/> other, please specify</p> <p>WATER SUPPLY DISTRIBUTION CONSTRAINTS</p> <p><input type="checkbox"/> inadequate network <input type="checkbox"/> pumping stations capacities <input type="checkbox"/> reservoirs deficiency</p> <p><input type="checkbox"/> poor maintenance of water supply distribution system <input type="checkbox"/> ageing</p> <p><input type="checkbox"/> other, please specify</p>	<p>What are the main water supply management constraints in the near future (next 25-30 years) ? (Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)</p> <p><input type="checkbox"/> Losses <input type="checkbox"/> Quantity <input type="checkbox"/> Quality <input type="checkbox"/> Water tariffs</p> <p><input type="checkbox"/> legislation and policy framework <input type="checkbox"/> Lack of funding <input type="checkbox"/> Infrastructure</p> <p><input type="checkbox"/> Capacities <input type="checkbox"/> Institutional <input type="checkbox"/> technical <input type="checkbox"/> human</p> <p><input type="checkbox"/> Climate change <input type="checkbox"/> Weak Cooperation <input type="checkbox"/> Other, namely</p>
<p>What are the most important steps and activities that would improve water supply in terms of aforementioned issues and constraints? (Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to different issues/problems)</p> <p><input type="checkbox"/> More information on climate change impacts on the water resources management and future planning;</p> <p><input type="checkbox"/> Improved knowledge of uncertainties that influence climate change adaptation measures;</p> <p><input type="checkbox"/> Improved knowledge about future water availability and future planning;</p> <p><input type="checkbox"/> Improved knowledge about future water safety;</p> <p><input type="checkbox"/> Improved knowledge about future water safety;</p> <p><input type="checkbox"/> Improved management practices for cross-border water supply systems;</p> <p><input type="checkbox"/> Common protocol development for the Cross-border / regional WSS and WRS management;</p> <p><input type="checkbox"/> Implementation of the priority measures for more efficient and effective WSS and WR management;</p> <p><input type="checkbox"/> Reduction of the water loss and leakage real time monitoring;</p>	

<p><input type="checkbox"/> Modern methodologies application for the real time control of: leakage, water quality, pumps schedules, etc.</p> <p><input type="checkbox"/> Development of WEB page that would improve cooperation and knowledge exchange and transfer relevant for WRM and DWS issues;</p> <p><input type="checkbox"/> Other, namely :</p>	<p>Do you think that some cross-cutting issues can be solved by:</p> <p>(Please rank them: 1 the most significant, 5 the least significant, it is possible assign the same rank to maximum two issues/problems)</p> <p><input type="checkbox"/> Policy that would address the majority of issues</p> <p><input type="checkbox"/> Separate policies that would address the majority of issues</p> <p><input type="checkbox"/> Better cooperation among different sectors</p> <p><input type="checkbox"/> Better cooperation among local and national authorities</p> <p><input type="checkbox"/> More financial resources</p> <p><input type="checkbox"/> Water tariffs</p> <p><input type="checkbox"/> Other, namely :</p>
<p>Please list the 3 most significant actors/ actions for Improved water supply and water resources management:</p>	<p>What are the actions that your institution/ organization might take to improve water supply and water resources management and contribute to its sustainability?</p>
<p>Do you think that only state activities contribute to improved water supply: <input checked="" type="checkbox"/> YES <input type="checkbox"/> No If the answer is NO please list other institutional levels of significance:</p>	<p>Your familiarity/ knowledge with role and activities of Bilateral Commissions of significance for cross – border/ regional water supply and water resources management:</p> <p><input type="checkbox"/> Comprehensive <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Deficient</p>
<p>Your familiarity/ knowledge with role and activities of Local Authorities of significance for cross – border/ regional water supply:</p> <p><input type="checkbox"/> Comprehensive <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Deficient</p>	



DRINK ADRIA

Networking for Drinking Water Supply in Adriatic Region



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Are there legislative frameworks (treaties, agreements, Memorandum of Understanding, etc.) that are significant for cross-border/ regional water supply systems and water resource management you are familiar with in your country/region: <input type="checkbox"/> YES <input checked="" type="checkbox"/> No If the answer is yes, please provide the title
Your familiarity with issues/ constraints regarding cross-border / regional water resources: <input type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Deficient Please provide additional comments if any:
Implementation level of River basin Management Plans at the national level: <input type="checkbox"/> Completed <input checked="" type="checkbox"/> Ongoing <input type="checkbox"/> Pending Please provide additional comments if any:
Implementation level of River basin Management Plans (transboundary river basins) : <input type="checkbox"/> Completed <input checked="" type="checkbox"/> Ongoing <input type="checkbox"/> Pending Please provide additional comments if any:
What are the most important topics that you would like to become more familiar regarding to cross-border /regional water supply systems and water resources management?
Do you consider this type of workshops/roundtables useful: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Neutral
Additional Comments:

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & Sustainability

Name: Surname: Institution/ Organization: (If you wish to remain anonymous, please do not fill)	VITTORIO TUNTI ACEGAS-APS MULINARI
Your Institution/ Organization mission /main scope of the work: <input checked="" type="checkbox"/> Water utility <input type="checkbox"/> Authority : <input type="checkbox"/> local <input type="checkbox"/> regional <input type="checkbox"/> national <input type="checkbox"/> Research Organization <input type="checkbox"/> Water Association <input type="checkbox"/> Other (please specify):	
Your activities are mainly focused on : <input checked="" type="checkbox"/> water supply <input type="checkbox"/> water protection <input type="checkbox"/> education/research <input type="checkbox"/> international cooperation <input type="checkbox"/> financial/ legislative <input type="checkbox"/> other, namely :	
What spatial scale reflects the best your activities and tasks? (Please use percentile estimation in a way that total amount is: 100% Example: local -55%, national -25%, other - 20%) local 20% regional 30% national 50% international _ % other, namely : _ %	
What are the main water supply management issues/ problems at the present? (Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems) <input checked="" type="checkbox"/> Losses <input checked="" type="checkbox"/> Quantity <input checked="" type="checkbox"/> Quality <input type="checkbox"/> Water tariffs <input type="checkbox"/> legislation and policy framework <input type="checkbox"/> Lack of funding <input checked="" type="checkbox"/> Infrastructure <input type="checkbox"/> Capacities : <input checked="" type="checkbox"/> institutional <input type="checkbox"/> technical <input type="checkbox"/> human <input type="checkbox"/> Climate change <input type="checkbox"/> Weak Cooperation <input type="checkbox"/> Other, namely :	

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & Sustainability

2

Please rank the following in terms of before mentioned issues/problems:
(Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

LOSSES

☐ unauthorized consumption ☐ metering errors ☐ distribution network leakage

☐ distribution network leakage ☐ water supply facilities leakage

☐ other, please specify

QUANTITY

☐ increase in water use ☐ seasonal fluctuations ☐ water storage capacities

☐ changes in land use practices ☐ high consumption by other sectors (agriculture, industry, etc)

☐ Climate Change ☐ other, please specify

QUALITY

☐ point source pollution ☐ nonpoint source pollution ☐ source protection issues

☐ changes in land use practices ☐ seasonal fluctuation ☐ Climate Change

☐ other, please specify

WATER SUPPLY DISTRIBUTION CONSTRAINTS

☐ inadequate network ☐ pumping stations capacities ☐ reservoirs deficiency

☐ poor maintenance of water supply distribution system ☐ ageing

☐ other, please specify

What are the main water supply management constraints in the near future (next 25-30 years) ?
(Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

☐ Losses ☐ Quantity ☐ Quality ☐ Water tariffs

☐ legislation and policy framework ☐ Lack of funding ☐ Infrastructure

☐ Capacities ☐ Institutional ☐ technical ☐ human

☐ Climate change ☐ Weak Cooperation ☐ Other, namely

What are the most important steps and activities that would improve water supply in terms of aforementioned issues and constraints?
(Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to different issues/problems)

☐ More information on climate change impacts on the water resources management and future planning;

☐ Improved knowledge of uncertainties that influence climate change adaptation measures;

☐ Improved knowledge about future water availability and future planning;

☐ Improved knowledge of land use practices impact on DWS and source protection zones definition;

☐ Improved knowledge about future water safety;

☐ Improved management practices for cross-border water supply systems;

☐ Common protocol development for the Cross-border / regional WSS and WRS management;

☐ Implementation of the priority measures for more efficient and effective WSS and WR management;

☐ Reduction of the water loss and leakage real time monitoring;

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & Sustainability

2

☐ Modern methodologies application for the real time control of: leakage, water quality, pumps schedules, etc.

☐ Development of WEB page that would improve cooperation and knowledge exchange and transfer relevant for WRM and DWS issues;

☐ Other, namely :

Do you think that some cross-cutting issues can be solved by:

(Please rank them: 1 the most significant, 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

☐ Policy that would address the majority of issues

☐ Separate policies that would address the majority of issues

☐ Better cooperation among different sectors

☐ Better cooperation among local and national authorities

☐ More financial resources

☐ Water tariffs

☐ Other, namely :

Please list the 3 most significant actors/ actions for improved water supply and water resources management:

Real Time control of leakage, water quality, pumps

What are the actions that your institution/ organization might take to improve water supply and water resources management and contribute to its sustainability?

Do you think that only state activities contribute to improved water supply:

☒ YES ☐ No

If the answer is NO please list other institutional levels of significance:

Your familiarity/ knowledge with role and activities of Bilateral Commissions of significance for cross – border/ regional water supply and water resources management:

☐ Comprehensive ☒ Moderate ☐ Deficient

Your familiarity/ knowledge with role and activities of Local Authorities of significance for cross – border/ regional water supply:

☐ Comprehensive ☒ Moderate ☐ Deficient

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & Sustainability



DRINKADRIA

Networking for Drinking Water Supply in Adriatic Region



QUESTIONNAIRE ON CROSS BORDER /REGIONAL WATER SUPPLY SYSTEMS AND WATER RESOURCES MANAGEMENT

The Capitalization and sustainability activity (CS) is an important project component that would provide framework for exchange of relevant information of significance for cross-border / regional water supply systems among stakeholders, authorities, research institutions, etc.

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Are there legislative frameworks (treaties, agreements, Memorandum of Understanding, etc.) that are significant for cross-border / regional water supply systems and water resource management you are familiar with in your country/region: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO If the answer is yes, please provide the title
Your familiarity with issues/ constraints regarding cross-border / regional water resources: <input type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Deficient Please provide additional comments if any:
Implementation level of River basin Management Plans at the national level: <input type="checkbox"/> Completed <input checked="" type="checkbox"/> Ongoing <input type="checkbox"/> Pending Please provide additional comments if any:
Implementation level of River basin Management Plans (transboundary river basins) : <input type="checkbox"/> Completed <input checked="" type="checkbox"/> Ongoing <input type="checkbox"/> Pending Please provide additional comments if any:
What are the most important topics that you would like to become more familiar regarding to cross-border /regional water supply systems and water resources management?
Do you consider this type of workshops/roundtables useful: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Neutral
Additional Comments:

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & Sustainability

Name: Surname: Institution/ Organization: (If you wish to remain anonymous, please do not fill)	MICHELLE CAFE UD MULATUNNY
Your Institution/ Organization mission /main scope of the work: <input checked="" type="checkbox"/> Water utility <input type="checkbox"/> Authority : <input type="checkbox"/> local <input type="checkbox"/> regional <input type="checkbox"/> national <input type="checkbox"/> Research Organization <input type="checkbox"/> Water Association <input type="checkbox"/> Other (please specify):	
Your activities are mainly focused on : <input checked="" type="checkbox"/> water supply <input checked="" type="checkbox"/> water protection <input type="checkbox"/> education/research <input type="checkbox"/> international cooperation <input type="checkbox"/> financial/ legislative <input type="checkbox"/> other, namely :	
What spatial scale reflects the best your activities and tasks? (Please use percentile estimation in a way that total amount is 100% Example: local -55%, national -25%, other - 20%) local <input checked="" type="checkbox"/> % regional <input type="checkbox"/> % national <input type="checkbox"/> % international <input type="checkbox"/> % other, namely : <input type="checkbox"/> %	
What are the main water supply management issues/ problems at the present? (Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems) 4 <input type="checkbox"/> Losses 5 <input type="checkbox"/> Quantity 3 <input checked="" type="checkbox"/> Quality <input type="checkbox"/> Water tariffs <input type="checkbox"/> legislation and policy framework <input type="checkbox"/> Lack of funding 1 <input checked="" type="checkbox"/> Infrastructure <input type="checkbox"/> Capacities : <input type="checkbox"/> Institutional 2 <input checked="" type="checkbox"/> technical <input type="checkbox"/> human <input type="checkbox"/> Climate change <input type="checkbox"/> Weak Cooperation <input type="checkbox"/> Other, namely :	

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & Sustainability

<p>Please rank the following in terms of before mentioned issues/problems: (Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)</p>	
<p>LOSSES</p> <p><input type="checkbox"/> Unauthorized consumption <input type="checkbox"/> metering errors <input type="checkbox"/> distribution network leakage</p> <p><input checked="" type="checkbox"/> distribution network leakage <input type="checkbox"/> water supply facilities leakage</p> <p><input type="checkbox"/> other, please specify</p>	<p>QUANTITY</p> <p><input type="checkbox"/> increase in water use <input checked="" type="checkbox"/> seasonal fluctuations <input checked="" type="checkbox"/> water storage capacities</p> <p><input type="checkbox"/> changes in land use practices <input type="checkbox"/> high consumption by other sectors (agriculture, industry, etc)</p> <p><input type="checkbox"/> Climate Change <input type="checkbox"/> other, please specify</p>
<p>QUALITY</p> <p><input type="checkbox"/> point source pollution <input type="checkbox"/> no point source pollution <input type="checkbox"/> source protection issues</p> <p><input type="checkbox"/> changes in land use practices <input type="checkbox"/> seasonal fluctuation <input type="checkbox"/> Climate Change</p> <p><input type="checkbox"/> other, please specify</p>	<p>WATER SUPPLY DISTRIBUTION CONSTRAINS</p> <p><input checked="" type="checkbox"/> inadequate network <input type="checkbox"/> pumping stations capacities <input type="checkbox"/> reservoirs deficiency</p> <p><input type="checkbox"/> poor maintenance of water supply distribution system <input type="checkbox"/> ageing</p> <p><input type="checkbox"/> other, please specify</p>
<p>What are the main water supply management constraints in the near future (next 25- 30 years) ? (Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)</p>	
<p><input type="checkbox"/> Losses <input checked="" type="checkbox"/> Quantity <input checked="" type="checkbox"/> Quality <input checked="" type="checkbox"/> Water tariffs</p> <p><input type="checkbox"/> legislation and policy framework <input type="checkbox"/> Lack of funding <input type="checkbox"/> Infrastructure</p> <p><input type="checkbox"/> Capacities : <input type="checkbox"/> Institutional <input type="checkbox"/> technical <input type="checkbox"/> human</p> <p><input type="checkbox"/> Climate change <input type="checkbox"/> Weak Cooperation <input type="checkbox"/> Other, namely</p>	<p><input type="checkbox"/> Losses <input checked="" type="checkbox"/> Quantity <input checked="" type="checkbox"/> Quality <input checked="" type="checkbox"/> Water tariffs</p> <p><input type="checkbox"/> legislation and policy framework <input type="checkbox"/> Lack of funding <input type="checkbox"/> Infrastructure</p> <p><input type="checkbox"/> Capacities : <input type="checkbox"/> Institutional <input type="checkbox"/> technical <input type="checkbox"/> human</p> <p><input type="checkbox"/> Climate change <input type="checkbox"/> Weak Cooperation <input type="checkbox"/> Other, namely</p>
<p>What are the most important steps and activities that would improve water supply in terms of aforementioned issues and constraints? (Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to different issues/problems)</p>	
<p><input type="checkbox"/> More information on climate change impacts on the water resources management and future planning;</p> <p><input type="checkbox"/> Improved knowledge of uncertainties that influence climate change adaptation measures;</p> <p><input checked="" type="checkbox"/> Improved knowledge about future water availability and future planning;</p> <p><input checked="" type="checkbox"/> Improved knowledge about future water safety;</p> <p><input checked="" type="checkbox"/> Improved knowledge about future water safety;</p> <p><input type="checkbox"/> Improved management practices for cross-border water supply systems;</p> <p><input type="checkbox"/> Common protocol development for the Cross- border / regional WSS and WMS management;</p> <p><input type="checkbox"/> Implementation of the priority measures for more efficient and effective WSS and WR management;</p> <p><input type="checkbox"/> Reduction of the water loss and leakage real time monitoring;</p>	<p><input type="checkbox"/> More information on climate change impacts on the water resources management and future planning;</p> <p><input type="checkbox"/> Improved knowledge of uncertainties that influence climate change adaptation measures;</p> <p><input checked="" type="checkbox"/> Improved knowledge about future water availability and future planning;</p> <p><input checked="" type="checkbox"/> Improved knowledge about future water safety;</p> <p><input checked="" type="checkbox"/> Improved knowledge about future water safety;</p> <p><input type="checkbox"/> Improved management practices for cross-border water supply systems;</p> <p><input type="checkbox"/> Common protocol development for the Cross- border / regional WSS and WMS management;</p> <p><input type="checkbox"/> Implementation of the priority measures for more efficient and effective WSS and WR management;</p> <p><input type="checkbox"/> Reduction of the water loss and leakage real time monitoring;</p>

<p><input type="checkbox"/> Modern methodologies application for the real time control of: leakage, water quality, pumps schedules, etc.</p> <p><input type="checkbox"/> Development of WEB page that would improve cooperation and knowledge exchange and transfer relevant for WRM and DWS issues;</p> <p><input type="checkbox"/> Other, namely :</p>	<p>Do you think that some cross-cutting issues can be solved by:</p> <p>(Please rank them: 1 the most significant, 5 the least significant, it is possible assign the same rank to maximum two issues/problems)</p> <p><input type="checkbox"/> Policy that would address the majority of issues</p> <p><input type="checkbox"/> Separate policies that would address the majority of issues</p> <p><input type="checkbox"/> Better cooperation among different sectors</p> <p><input type="checkbox"/> Better cooperation among local and national authorities</p> <p><input type="checkbox"/> More financial resources</p> <p><input type="checkbox"/> Water tariffs</p> <p><input type="checkbox"/> Other, namely :</p>
<p>Please list the 3 most significant actors/ actions for improved water supply and water resources management:</p>	<p>Please list the 3 most significant actors/ actions for improved water supply and water resources management:</p>
<p>What are the actions that your institution/ organization might take to improve water supply and water resources management and contribute to its sustainability?</p>	<p>What are the actions that your institution/ organization might take to improve water supply and water resources management and contribute to its sustainability?</p>
<p>Do you think that only state activities contribute to improved water supply:</p> <p><input type="checkbox"/> YES <input checked="" type="checkbox"/> No</p> <p>If the answer is NO please list other Institutional levels of significance:</p> <p>WATER UTILITY</p>	<p>Do you think that only state activities contribute to improved water supply:</p> <p><input type="checkbox"/> YES <input checked="" type="checkbox"/> No</p> <p>If the answer is NO please list other Institutional levels of significance:</p> <p>WATER UTILITY</p>
<p>Your familiarity/ knowledge with role and activities of Bilateral Commissions of significance for cross – border/ regional water supply and water resources management:</p> <p><input type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Deficient</p>	<p>Your familiarity/ knowledge with role and activities of Bilateral Commissions of significance for cross – border/ regional water supply and water resources management:</p> <p><input type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Deficient</p>
<p>Your familiarity/ knowledge with role and activities of Local Authorities of significance for cross – border/ regional water supply:</p> <p><input checked="" type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input type="checkbox"/> Deficient</p>	<p>Your familiarity/ knowledge with role and activities of Local Authorities of significance for cross – border/ regional water supply:</p> <p><input checked="" type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input type="checkbox"/> Deficient</p>



DRINKADRIA

Networking for Drinking Water Supply in Adriatic Region



QUESTIONNAIRE ON CROSS BORDER /REGIONAL WATER SUPPLY SYSTEMS AND WATER RESOURCES MANAGEMENT

The Capitalization and sustainability activity (CS) is an important project component that would provide framework for exchange of relevant information of significance for cross- border/ regional water supply systems among stakeholders, authorities, research institutions, etc.

Yours feedbacks collected during the national workshops provide valuable inputs and contribute to successful DRINKADRIA project implementation.

Name:	CARLO
Surname:	CHICOMELLO
Institution/ Organization:	AMGA SPA
(if you wish to remain anonymous, please do not fill)	MULTIUTILITY VENETO
Your Institution/ Organization mission /main scope of the work:	
<input checked="" type="checkbox"/> Water utility <input type="checkbox"/> Authority : <input type="checkbox"/> local <input type="checkbox"/> regional <input type="checkbox"/> national <input type="checkbox"/> Research Organization <input type="checkbox"/> Water Association <input type="checkbox"/> Other (please specify):	
Your activities are mainly focused on :	
<input checked="" type="checkbox"/> water supply <input type="checkbox"/> water protection <input type="checkbox"/> education/research <input type="checkbox"/> international cooperation <input type="checkbox"/> financial/ legislative <input type="checkbox"/> other, namely :	
What spatial scale reflects the best your activities and tasks? (Please use percentile estimation in a way that total amount is 100% Example: local -55%, national -25%, other - 20%)	
local 80%	regional _ % national _ % international 20% other, namely : _ %
What are the main water supply management issues/ problems at the present? (Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)	
<input checked="" type="checkbox"/> Losses 1 <input checked="" type="checkbox"/> Quantity 4 <input type="checkbox"/> Quality 2 <input type="checkbox"/> Water tariffs 1 <input type="checkbox"/> legislation and policy framework 2 <input type="checkbox"/> Lack of funding 1 <input checked="" type="checkbox"/> infrastructure 1 <input type="checkbox"/> Capacities : <input type="checkbox"/> institutional 2 <input type="checkbox"/> technical 2 <input type="checkbox"/> human 2 <input type="checkbox"/> Climate change 3 <input type="checkbox"/> Weak Cooperation 3 <input type="checkbox"/> Other, namely : 3	

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & sustainability

Are there legislative frameworks (treaties, agreements, Memorandum of Understanding, etc.) that are significant for cross-border/ regional water supply systems and water resource management you are familiar with in your country/region: <input type="checkbox"/> YES <input checked="" type="checkbox"/> No If the answer is yes, please provide the title
Your familiarity with issues/ constraints regarding cross- border / regional water resources: <input type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Deficient Please provide additional comments if any:
Implementation level of River basin Management Plans at the national level: <input type="checkbox"/> Completed <input type="checkbox"/> Ongoing <input type="checkbox"/> Pending Please provide additional comments if any:
Implementation level of River basin Management Plans (transboundary river basins) : <input type="checkbox"/> Completed <input type="checkbox"/> Ongoing <input type="checkbox"/> Pending Please provide additional comments if any:
What are the most important topics that you would like to become more familiar regarding to cross- border /regional water supply systems and water resources management? WATER QUALITY - PROTECTION - TARIFFS
Do you consider this type of workshops/roundtables useful: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Neutral
Additional Comments:

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & sustainability

Please rank the following in terms of before mentioned issues/problems:
(Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

LOSSES

☐ unauthorized consumption **5** ☐ metering errors **2** ☐ distribution network leakage

☐ distribution network leakage **1** ☐ water supply facilities leakage **4**

☐ other, please specify

QUANTITY

☐ increase in water use **4** ☐ seasonal fluctuations **1** ☐ water storage capacities **3**

☐ changes in land use practices **2** ☐ high consumption by other sectors (agriculture, industry, etc) **1**

☐ Climate Change **5** ☐ other, please specify

QUALITY

☐ point source pollution **2** ☐ nonpoint source pollution **2** ☐ source protection issues **5**

☐ changes in land use practices **1** ☐ seasonal fluctuation **3** ☐ Climate Change **3**

☐ other, please specify

WATER SUPPLY DISTRIBUTION CONSTRAINTS

☐ inadequate network **3** ☐ pumping stations capacities **1** ☐ reservoirs deficiency **2**

☐ poor maintenance of water supply distribution system **2** ☐ ageing **1**

☐ other, please specify

What are the main water supply management constraints in the near future (next 25- 30 years) ?
(Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

☐ Losses **2** ☐ Quantity **1** ☐ Quality **1** ☐ Water tariffs **1**

☐ legislation and policy framework **2** ☐ Lack of funding **1** ☐ Infrastructure **1**

☐ Capacities : ☐ Institutional ☐ technical ☐ human **5**

☐ Climate change **5** ☐ Weak Cooperation **3** ☐ Other, namely

What are the most important steps and activities that would improve water supply in terms of aforementioned issues and constraints?
(Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to different issues/problems)

☐ More information on climate change impacts on the water resources management and future planning; **5**

☐ Improved knowledge of uncertainties that influence climate change adaptation measures; **4**

☐ Improved knowledge about future water availability and future planning; **2**

☐ Improved knowledge of land use practices impact on DWS and source protection zones definition; **2**

☐ Improved knowledge about future water safety; **3**

☐ Improved management practices for cross-border water supply systems; **5**

☐ Common protocol development for the Cross-border / regional WSS and WRS management; **5**

☐ Implementation of the priority measures for more efficient and effective WSS and WR management; **1**

☐ Reduction of the water loss and leakage, real time monitoring; **1**

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & Sustainability

☐ Modern methodologies application for the real time control of: leakage, water quality, pumps schedules, etc. **1**

☐ Development of WEB page that would improve cooperation and knowledge exchange and transfer relevant for WRM and DWS issues; **5**

☐ Other, namely :

Do you think that some cross-cutting issues can be solved by:

(Please rank them: 1 the most significant, 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

☐ Policy that would address the majority of issues **1**

☐ Separate policies that would address the majority of issues **1**

☐ Better cooperation among different sectors **2**

☐ Better cooperation among local and national authorities **2**

☐ More financial resources **3**

☐ Water tariffs **4**

☐ Other, namely :

Please list the 3 most significant actors/ actions for improved water supply and water resources management:

1. ENERGY EFFICIENCY

2. PROTECTION POLICIES

What are the actions that your institution/ organization might take to improve water supply and water resources management and contribute to its sustainability?

AUTHORITIES AND WATER UTILITIES

Do you think that only state activities contribute to improved water supply:

☐ YES ☒ No

If the answer is NO please list other institutional levels of significance:

ANY STAKEHOLDER MAY CONTRIBUTE

Your familiarity/ knowledge with role and activities of Bilateral Commissions of significance for cross - border/ regional water supply and water resources management:

☐ Comprehensive ☐ Moderate ☒ Deficient

Your familiarity/ knowledge with role and activities of Local Authorities of significance for cross - border/ regional water supply:

☐ Comprehensive ☐ Moderate ☒ Deficient

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & Sustainability



Networking for Drinking Water Supply in Adriatic Region



QUESTIONNAIRE ON CROSS BORDER /REGIONAL WATER SUPPLY SYSTEMS AND WATER RESOURCES MANAGEMENT

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Yours feedbacks collected during the national workshops provide valuable inputs and contribute to successful DRINKADRIA project implementation.

Name:	MARCO
Surname:	GATTA
Institution/ Organization: (If you wish to remain anonymous, please do not fill)	FEDERUTILITY

Your Institution/ Organization mission /main scope of the work:

☐ Water utility ☐ Authority : ☐ local, ☐ regional ☐ national
☐ Research Organization ☒ Water Association ☐ Other (please specify):

Your activities are mainly focused on :

☒ water supply ☒ water protection ☐ education/research
☐ international cooperation ☒ financial/ legislative ☐ other, namely :

What spatial scale reflects the best your activities and tasks?
 (Please use percentile estimation in a way that total amount is 100%
 Example: local -55%, national -25%, other - 20%)

local _ % regional _ % national ¹⁰⁰ _ % international _ % other, namely : _____, _ %

What are the main water supply management issues/ problems at the present?
 (Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

☐ Losses **3** ☐ Quantity **4** ☐ Quality **4** ☐ Water tariffs **1**
☐ legislation and policy framework **2** ☐ Lack of funding **2** ☐ Infrastructure **1**
☐ Capacities : ☐ institutional ☐ technical ☐ human **3**
☐ Climate change **3** ☐ Weak Cooperation ☐ Other, namely :

Please rank the following in terms of before mentioned issues/problems:

(Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

LOSSES

- ☐ unauthorized consumption **2** ☐ metering errors **2** ☐ distribution network leakage **1**
☐ distribution network leakage ☐ water supply facilities leakage **3**
☐ other, please specify: **TECHNICAL KNOW-HOW DISSEMINATION 1**

QUANTITY

- ☐ increase in water use **4** ☐ seasonal fluctuations **2** ☐ water storage capacities **2**
☐ changes in land use practices **3** ☐ high consumption by other sectors (agriculture, industry, etc) **1**
☐ Climate Change **1** ☐ other, please specify

QUALITY

- ☐ point source pollution **1** ☐ nonpoint source pollution **2** ☐ source protection issues **2**
☐ changes in land use practices **3** ☐ seasonal fluctuation **4** ☐ Climate Change **1**
☐ other, please specify

WATER SUPPLY DISTRIBUTION CONSTRAINS

- ☐ inadequate network **3** ☐ pumping stations capacities **3** ☐ reservoirs deficiency **4**
☐ poor maintenance of water supply distribution system **2** ☐ ageing **1**
☐ other, please specify

What are the main water supply management constrains in the near future (next 25- 30 years) ?

(Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

- ☐ Losses **4** ☐ Quantity **3** ☐ Quality **4** ☐ Water tariffs **2**
☐ legislation and policy framework **3** ☐ Lack of funding ☐ Infrastructure **1**
☐ Capacities : ☐ institutional ☐ technical ☐ human **5**
☐ Climate change ☐ Weak Cooperation ☐ Other, namely **5**

What are the most important steps and activities that would improve water supply in terms of aforementioned issues and constrains?

(Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to different issues/problems)

- ☐ More information on climate change impacts on the water resources management and future planning; **1**
☐ Improved knowledge of uncertainties that influence climate change adaptation measures; **5**
☐ Improved knowledge about future water availability and future planning; **1**
☐ Improved knowledge of land use practices impact on DWS and source protection zones definition; **3**
☐ Improved knowledge about future water safety; **2**
☐ Improved management practices for cross-border water supply systems; **5**
☐ Common protocol development for the Cross- border / regional WSS and WRS management; **4**
☐ Implementation of the priority measures for more efficient and effective WSS and WR management; **3**
☐ Reduction of the water loss and leakage real time monitoring; **4**

- ☐ Modern methodologies application for the real time control of: leakage, water quality, pumps schedules, etc. **2**
- ☐ Development of WEB page that would improve cooperation and knowledge exchange and transfer relevant for WRM and DWS issues; **6**
- ☐ Other, namely :

Do you think that some cross-cutting issues can be solved by:

(Please rank them: 1 the most significant , 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

- ☐ Policy that would address the majority of issues **1**
- ☐ Separate policies that would address the majority of issues **4**
- ☐ Better cooperation among different sectors **3**
- ☐ Better cooperation among local and national authorities **2**
- ☐ More financial resources **1**
- ☐ Water tariffs **3**
- ☐ Other, namely :

Please list the 3 most significant actors/ actions for improved water supply and water resources management:

- **MONEY**
- **TECHNICAL KNOW-HOW**
- **INSTITUTIONAL FRAMEWORK**

What are the actions that your institution/ organization might take to improve water supply and water resources management and contribute to its sustainability?

- **TALK TO INSTITUTIONS, PUBLIC BODIES . . .**
- **DISSEMINATE INFORMATION**

Do you think that only state activities contribute to improved water supply:

☐ YES ☒ No

If the answer is NO please list other institutional levels of significance:

- **WATER PROVIDERS**
- **ASSOCIATIONS**
- **CONSUMERS**
- **RESEARCH INSTITUTES/UNIVERSITY**

Your familiarity/ knowledge with role and activities of Bilateral Commissions of significance for cross – border/ regional water supply and water resources management:

☐ Comprehensive ☒ Moderate ☐ Deficient

Your familiarity/ knowledge with role and activities of Local Authorities of significance for cross – border/ regional water supply:

☐ Comprehensive ☒ Moderate ☐ Deficient

Are there legislative frameworks (treaties, agreements, Memorandum of Understanding, etc.) that are significant for cross-border/ regional water supply systems and water resource management you are familiar with in your country/region:

☒ YES ☐ No

If the answer is yes, please provide the title

EU DIRECTIVE 2000/60/CE

Your familiarity with issues/ constraints regarding cross- border / regional water resources:

☐ Comprehensive ☒ Moderate ☐ Deficient

Please provide additional comments if any:

Implementation level of River basin Management Plans at the national level:

☒ Completed ☒ Ongoing ☐ Pending

Please provide additional comments if any:

ALMOST COMPLETED

Implementation level of River basin Management Plans (transboundary river basins) :

☐ Completed ☒ Ongoing ☐ Pending

Please provide additional comments if any:

What are the most important topics that you would like to become more familiar regarding to cross- border /regional water supply systems and water resources management?

- ~~WATER~~ SOFT MANAGEMENT OF AQUIFERS
- CONTRACTS FOR CROSS-BORDER WATER SUPPLY

Do you consider this type of workshops/roundtables useful:

☒ Yes ☐ No ☐ Neutral

Additional Comments:

Partners ed associati

Perché DRINKADRIA

Area Council for Eastern Integrated Water Service of Trieste (CATO)	ITALIA
VERTAS Joint-Stock Company	ITALIA
OPTIMAL TERRITORIAL AREA AUTHORITY N. 3 CENTRAL MARCHE – MACERATA	ITALIA
Italian National Council - Water Research Institute (CNR-IPSA)	ITALIA
Water Utility of Nova Gorica	SLOVENIA
University of Ljubljana	SLOVENIA
Region of Istria	CROATIA
Water utility of Istria	CROATIA
Faculty of Civil Engineering, University of Rijeka	CROATIA
Croatian Geological Survey	CROATIA
Institute for Development of Water Resources "Jarošlav Černi"	SERBIA
Water Supply and Sewerage Association of Albania (SHUKALB)	ALBANIA
Hydro-Engineering Institute of Civil engineering faculty University of Sarajevo	BIH
P.C. UTILITY NEUM	BIH
Public Utility »Vodovod i kanalizacija« Nikšić	MONTENEGRO
Region of Ionian Islands	GREGIA
FEDERUTILITY	ITALIA
CROATIAN WATERS	CROATIA
IWS - Istrian Water Protection System	CROATIA
Primorje-Gorski Kotar county	CROATIA
Ministry of Agriculture, Forestry and Water Management, Water Directorate	SERBIA
Slovenian Environment Agency	SLOVENIA
Agency for Watershed of Adriatic Sea	BIH
THE MUNICIPALITY OF NEUM	BIH
Water Supply and Treatment of Waste Drainage Association of Montenegro	MONTENEGRO
Republic of Slovenia Ministry of Agriculture and Environment	SLOVENIA

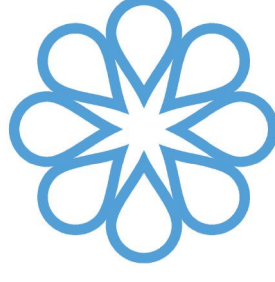
Gestione della risorsa idrica: i cambiamenti climatici stanno avendo ed avranno impatti significativi sulla quantità e la qualità dell'acqua disponibile. **DRINKADRIA** studia la vulnerabilità del territorio e le azioni per la tutela della risorsa nel breve e nel lungo periodo, in modo particolare nella aree in cui questi impatti possono avere effetti più esasperati: le aree di confine.

Analisi della fornitura transfrontaliera: il progetto analizza lo scenario delle forniture d'acqua potabile a carattere transfrontaliero e individua le possibili azioni per ottimizzare la cooperazione fra operatori in stati contigui, evidenziando possibili sviluppi nell'ambito della tutela della risorsa. Il progetto colma così una lacuna, e cioè la mancanza di studi sulle vulnerabilità del sistema idrico e sulle possibili soluzioni transfrontaliere.

Progetti pilota: per testare sul campo i benefici delle soluzioni individuate **DRINKADRIA** realizzerà nove progetti pilota, nelle diverse realtà geografiche e culturali.

Sostenibilità e capitalizzazione: il progetto sviluppa reti di collaborazione fra stakeholders per incentivare l'utilizzo delle buone pratiche, con l'obiettivo di fungere da volano per eventuali altri studi nel settore e fornire delle linee guida per una futura legislazione.

DRINKADRIA
www.drinkadria.eu - info@drinkadria.eu



DRINKADRIA

NETWORKING FOR DRINKING WATER SUPPLY IN ADRIATIC REGION



The Programme is co-funded by the European Union, Instrument for Pre-Accession Assistance

Mettere in rete la conoscenza

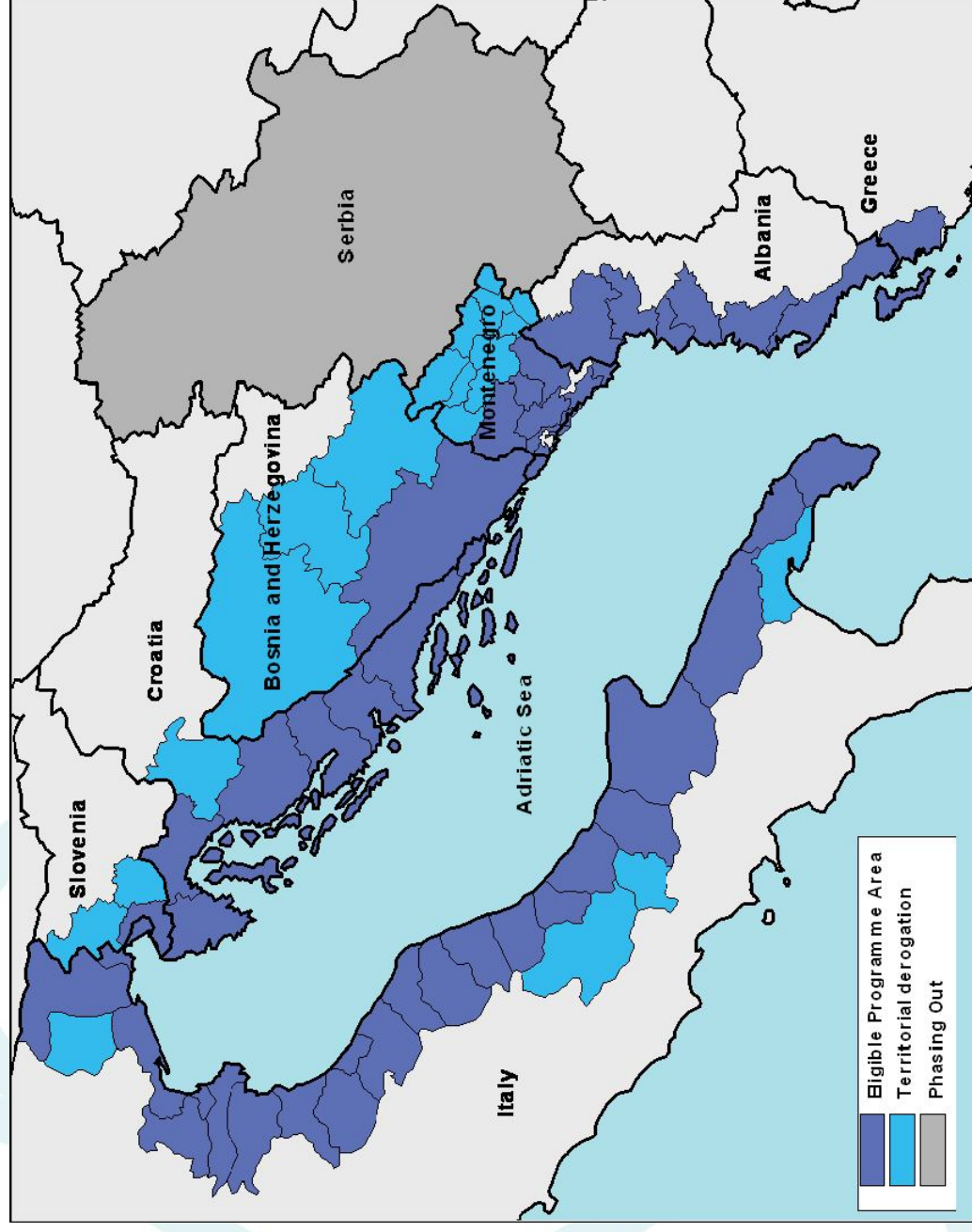
DRINKADRIA è un progetto che unisce **16 partners** provenienti da **8 paesi** della Regione Adriatica; il progetto si propone di creare un network fra questi operatori in cui condividere, competenze, esperienze e prassi operative, orientate ad una gestione sostenibile delle risorse idriche. Il consolidamento di un know-how condiviso, la condivisione di strategie e protocolli sono alla base di una corretta gestione delle risorse sia a livello locale, sia a livello transfrontaliero e regionale.

Il confine come opportunità

I mutamenti politici che si sono verificati nell'area balcanica dal secondo dopoguerra ad oggi, hanno determinato la modifica dell'assetto dei confini senza una conseguente regolamentazione della gestione delle risorse idriche comuni; **DRINKADRIA** si propone di sviluppare protocolli tra gli stati della regione adriatica in modo tale da sviluppare l'interconnettività dei sistemi idrici. Lo scopo è soddisfare i diversi fabbisogni, garantendo un utilizzo sostenibile della risorsa idrica, per far sì che la risorsa acqua sia sempre più un bene comune, tutelato e gestito al meglio al di qua e al di là del confine

Il contesto geografico e culturale

Il progetto **DRINKADRIA** rientra nell'ambito del Programma di Cooperazione Transfrontaliera **Adriatic IPA** ed interessa l'Italia, la Slovenia, la Croazia, la Bosnia ed Erzegovina, il Montenegro, l'Albania, la Grecia e la Serbia. Un progetto quindi a forte vocazione transfrontaliera.





DRINKADRIA

Networking for Drinking Water Supply in Adriatic Region



QUESTIONNAIRE ON CROSS BORDER /REGIONAL WATER SUPPLY SYSTEMS AND WATER RESOURCES MANAGEMENT

The Capitalization and sustainability activity (CS) is an important project component that would provide framework for exchange of relevant information of significance for cross- border/ regional water supply systems among stakeholders, authorities, research institutions, etc.

Yours feedbacks collected during the national workshops provide valuable inputs and contribute to successful DRINKADRIA project implementation.

Are there legislative frameworks (treaties, agreements, Memorandum of Understanding, etc.) that are significant for cross-border/ regional water supply systems and water resource management you are familiar with in your country/region: <input type="checkbox"/> YES <input type="checkbox"/> No If the answer is yes, please provide the title
Your familiarity with issues/ constraints regarding cross- border / regional water resources: <input type="checkbox"/> Comprehensive <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Deficient Please provide additional comments if any:
Implementation level of River basin Management Plans at the national level: <input type="checkbox"/> Completed <input type="checkbox"/> Ongoing <input checked="" type="checkbox"/> Pending Please provide additional comments if any:
Implementation level of River basin Management Plans (transboundary river basins) : <input type="checkbox"/> Completed <input type="checkbox"/> Ongoing <input checked="" type="checkbox"/> Pending Please provide additional comments if any:
What are the most important topics that you would like to become more familiar regarding to cross- border /regional water supply systems and water resources management?
Do you consider this type of workshops/roundtables useful: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Neutral
Additional Comments:

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & Sustainability

Name: Surname: Institution/ Organization: (if you wish to remain anonymous, please do not fill)	LUIGI COLUCCI ARPA F.V.G. - LABORATORIO INTRIESE
Your Institution/ Organization mission /main scope of the work: <input type="checkbox"/> Water utility <input checked="" type="checkbox"/> Authority : <input checked="" type="checkbox"/> local <input checked="" type="checkbox"/> regional <input type="checkbox"/> national <input type="checkbox"/> Research Organization <input type="checkbox"/> Water Association <input type="checkbox"/> Other (please specify):	
Your activities are mainly focused on : <input type="checkbox"/> water supply <input checked="" type="checkbox"/> water protection <input type="checkbox"/> education/research <input type="checkbox"/> international cooperation <input type="checkbox"/> financial/ legislative <input type="checkbox"/> other, namely :	
What spatial scale reflects the best your activities and tasks? (Please use percentile estimation in a way that total amount is 100% Example: local -55%, national -25%, other - 20%) SO local _ % regional _ % national _ % international _ % other, namely : _ %	
What are the main water supply management issues/ problems at the present? (Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems) <input type="checkbox"/> Losses <input type="checkbox"/> Quantity <input type="checkbox"/> Quality <input type="checkbox"/> Water tariffs <input type="checkbox"/> legislation and policy framework <input type="checkbox"/> Lack of funding <input type="checkbox"/> Infrastructure <input type="checkbox"/> Capacities : <input type="checkbox"/> institutional <input type="checkbox"/> technical <input type="checkbox"/> human <input type="checkbox"/> Climate change <input type="checkbox"/> Weak Cooperation <input type="checkbox"/> Other, namely :	

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & Sustainability

<p>Please rank the following in terms of before mentioned issues/problems: (Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)</p> <p>LOSSES</p> <p>3 <input type="checkbox"/> unauthorized consumption 5 <input type="checkbox"/> metering errors 4 <input type="checkbox"/> distribution network leakage 2 <input type="checkbox"/> water supply facilities leakage <input type="checkbox"/> other, please specify</p> <p>QUANTITY</p> <p>4 <input type="checkbox"/> increase in water use 5 <input type="checkbox"/> seasonal fluctuations 5 <input type="checkbox"/> water storage capacities 2 <input type="checkbox"/> changes in land use practices 2 <input type="checkbox"/> high consumption by other sectors (agriculture, industry, etc) 5 <input type="checkbox"/> Climate Change <input type="checkbox"/> other, please specify</p> <p>QUALITY</p> <p>4 <input type="checkbox"/> point source pollution 2 <input type="checkbox"/> nonpoint source pollution 2 <input type="checkbox"/> source protection issues 3 <input type="checkbox"/> changes in land use practices 5 <input type="checkbox"/> seasonal fluctuation 5 <input type="checkbox"/> Climate Change <input type="checkbox"/> other, please specify</p> <p>WATER SUPPLY DISTRIBUTION CONSTRAINTS</p> <p>5 <input type="checkbox"/> inadequate network 3 <input type="checkbox"/> pumping stations capacities 4 <input type="checkbox"/> reservoirs deficiency 4 <input type="checkbox"/> poor maintenance of water supply distribution system 4 <input type="checkbox"/> ageing <input type="checkbox"/> other, please specify</p>	<p>What are the main water supply management constraints in the near future (next 25-30 years) ? (Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)</p> <p>4 <input type="checkbox"/> Losses 4 <input type="checkbox"/> Quantity 5 <input type="checkbox"/> Quality 4 <input type="checkbox"/> Water tariffs 4 <input type="checkbox"/> legislation and policy framework 4 <input type="checkbox"/> Lack of funding 2 <input type="checkbox"/> Infrastructure 2 <input type="checkbox"/> Capacities 2 <input type="checkbox"/> institutional 2 <input type="checkbox"/> technical 3 <input type="checkbox"/> human 5 <input type="checkbox"/> Climate change 2 <input type="checkbox"/> Weak Cooperation <input type="checkbox"/> Other, namely</p>
<p>What are the most important steps and activities that would improve water supply in terms of aforementioned issues and constraints? (Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to different issues/problems)</p> <p>5 <input type="checkbox"/> More information on climate change impacts on the water resources management and future planning; 5 <input type="checkbox"/> Improved knowledge of uncertainties that influence climate change adaptation measures; 4 <input type="checkbox"/> Improved knowledge about future water availability and future planning; 2 <input type="checkbox"/> Improved knowledge of land use practices impact on DWS and source protection zones definition; 2 <input type="checkbox"/> Improved knowledge about future water safety; 3 <input type="checkbox"/> Improved management practices for cross-border water supply systems; 3 <input type="checkbox"/> Common protocol development for the Cross-border / regional WSS and WRS management; 4 <input type="checkbox"/> Implementation of the priority measures for more efficient and effective WSS and WR management; 4 <input type="checkbox"/> Reduction of the water loss and leakage real time monitoring;</p>	

<p>4 <input type="checkbox"/> Modern methodologies application for the real time control of: leakage, water quality, pumps schedules, etc. 4 <input type="checkbox"/> Development of WEB page that would improve cooperation and knowledge exchange and transfer relevant for WRM and DWS issues; <input type="checkbox"/> Other, namely :</p>	<p>Do you think that some cross-cutting issues can be solved by: (Please rank them: 1 the most significant, 5 the least significant, it is possible assign the same rank to maximum two issues/problems)</p> <p>4 <input type="checkbox"/> Policy that would address the majority of issues 3 <input type="checkbox"/> Separate policies that would address the majority of issues 4 <input type="checkbox"/> Better cooperation among different sectors 4 <input type="checkbox"/> Better cooperation among local and national authorities 5 <input type="checkbox"/> More financial resources 2 <input type="checkbox"/> Water tariffs <input type="checkbox"/> Other, namely :</p>
<p>Please list the 3 most significant actors/ actions for improved water supply and water resources management: REUSE OF WASTE WATER NOT FOR HUMAN CONSUMPTION WATER LEAKAGE REDUCTION PROTECTION OF ENVIRONMENT</p>	<p>What are the actions that your institution/ organization might take to improve water supply and water resources management and contribute to its sustainability? MAINTAINING OF HUMAN AND ECONOMIC RESOURCES FOR LAND CONTROL EMPOWERMENT OF COMPETENCE AND PROFESSIONALITY</p>
<p>Do you think that only state activities contribute to improved water supply: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO If the answer is NO please list other institutional levels of significance: REGIONAL, LOCAL, TRANSBOUNDARY COOPERATION</p>	<p>Your familiarity/ knowledge with role and activities of Bilateral Commissions of significance for cross – border/ regional water supply and water resources management: <input type="checkbox"/> Comprehensive <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Deficient</p>
<p>Your familiarity/ knowledge with role and activities of Local Authorities of significance for cross – border/ regional water supply: <input type="checkbox"/> Comprehensive <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Deficient</p>	



DRINKADRIA

Networking for Drinking Water Supply in Adriatic Region



QUESTIONNAIRE ON CROSS BORDER /REGIONAL WATER SUPPLY SYSTEMS AND WATER RESOURCES MANAGEMENT

The Capitalization and sustainability activity (CS) is an important project component that would provide framework for exchange of relevant information of significance for cross- border/ regional water supply systems among stakeholders, authorities, research institutions, etc.

Yours feedbacks collected during the national workshops provide valuable inputs and contribute to successful DRINKADRIA project implementation.

Are there legislative frameworks (treaties, agreements, Memorandum of Understanding, etc.) that are significant for cross-border/ regional water supply systems and water resource management you are familiar with in your country/region: <input checked="" type="checkbox"/> YES <input type="checkbox"/> No If the answer is yes, please provide the title <u>TREATY OF OSIMO</u>
Your familiarity with issues/ constraints regarding cross- border / regional water resources: <input type="checkbox"/> Comprehensive <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Deficient Please provide additional comments if any:
Implementation level of River basin Management Plans at the national level: <input checked="" type="checkbox"/> Completed <input type="checkbox"/> Ongoing <input type="checkbox"/> Pending Please provide additional comments if any:
Implementation level of River basin Management Plans (transboundary river basins) : <input checked="" type="checkbox"/> Completed <input type="checkbox"/> Ongoing <input type="checkbox"/> Pending Please provide additional comments if any:
What are the most important topics that you would like to become more familiar regarding to cross- border /regional water supply systems and water resources management? <u>CROSS BORDER AGREEMENT AND TREATY</u>
Do you consider this type of workshops/roundtables useful: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Neutral
Additional Comments:

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & Sustainability

Name: Surname: Institution/ Organization: (If you wish to remain anonymous, please do not fill)	<u>ALBERTO</u> <u>CIUSTO</u> <u>AUTOKRAZIJA BEOGRADSKI FAKULTET</u> <u>POSREDOVANJE</u>
Your Institution/ Organization mission /main scope of the work: <input type="checkbox"/> Water utility <input checked="" type="checkbox"/> Authority : <input type="checkbox"/> local <input type="checkbox"/> regional <input type="checkbox"/> national <input type="checkbox"/> Research Organization <input type="checkbox"/> Water Association <input type="checkbox"/> Other (please specify):	
Your activities are mainly focused on : <input type="checkbox"/> water supply <input checked="" type="checkbox"/> water protection <input type="checkbox"/> education/research <input type="checkbox"/> international cooperation <input type="checkbox"/> financial/ legislative <input type="checkbox"/> other, namely :	
What spatial scale reflects the best your activities and tasks? (Please use percentile estimation in a way that total amount is 100% Example: local -55%, national -25%, other - 20%) local _ % regional _ % national _ % international _ % other, namely : _ %	<u>40</u> <u>40</u> <u>10</u> <u>10</u> <u>0</u>
What are the main water supply management issues/ problems at the present? (Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)	<input checked="" type="checkbox"/> Losses <input checked="" type="checkbox"/> Quantity <input checked="" type="checkbox"/> Quality <input checked="" type="checkbox"/> Water tariffs <input checked="" type="checkbox"/> legislation and policy framework <input type="checkbox"/> Lack of funding <input type="checkbox"/> Infrastructure <input type="checkbox"/> Capacities : <input type="checkbox"/> institutional <input type="checkbox"/> technical <input type="checkbox"/> human <input checked="" type="checkbox"/> Climate change <input type="checkbox"/> Weak Cooperation <input type="checkbox"/> Other, namely :

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & Sustainability

<p>Please rank the following in terms of before mentioned issues/problems: (Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)</p>	
<p>LOSSES</p> <p><input type="checkbox"/> unauthorized consumption <input type="checkbox"/> metering errors <input type="checkbox"/> distribution network leakage</p> <p><input type="checkbox"/> distribution network leakage <input checked="" type="checkbox"/> water supply facilities leakage <input type="checkbox"/> other, please specify</p>	<p><input type="checkbox"/> increase in water use <input checked="" type="checkbox"/> seasonal fluctuations <input checked="" type="checkbox"/> water storage capacities</p> <p><input checked="" type="checkbox"/> changes in land use practices <input type="checkbox"/> high consumption by other sectors (agriculture, industry, etc)</p> <p><input type="checkbox"/> Climate Change <input type="checkbox"/> other, please specify</p>
<p>QUANTITY</p> <p><input checked="" type="checkbox"/> point source pollution <input checked="" type="checkbox"/> nonpoint source pollution <input checked="" type="checkbox"/> source protection issues</p> <p><input checked="" type="checkbox"/> changes in land use practices <input type="checkbox"/> seasonal fluctuation <input type="checkbox"/> Climate Change</p> <p><input type="checkbox"/> other, please specify</p>	<p>QUALITY</p> <p><input type="checkbox"/> inadequate network <input checked="" type="checkbox"/> pumping stations capacities <input checked="" type="checkbox"/> reservoirs deficiency</p> <p><input type="checkbox"/> poor maintenance of water supply distribution system <input type="checkbox"/> ageing</p> <p><input type="checkbox"/> other, please specify</p>
<p>WATER SUPPLY DISTRIBUTION CONSTRAINTS</p> <p><input type="checkbox"/> inadequate network <input checked="" type="checkbox"/> pumping stations capacities <input checked="" type="checkbox"/> reservoirs deficiency</p> <p><input type="checkbox"/> poor maintenance of water supply distribution system <input type="checkbox"/> ageing</p> <p><input type="checkbox"/> other, please specify</p>	
<p>What are the main water supply management constraints in the near future (next 25-30 years) ? (Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)</p>	
<p><input checked="" type="checkbox"/> Losses <input checked="" type="checkbox"/> Quantity <input checked="" type="checkbox"/> Quality <input checked="" type="checkbox"/> Water tariffs</p> <p><input checked="" type="checkbox"/> legislation and policy framework <input type="checkbox"/> Lack of funding <input type="checkbox"/> Infrastructure</p> <p><input type="checkbox"/> Capacities : <input type="checkbox"/> institutional <input type="checkbox"/> technical <input type="checkbox"/> human</p> <p><input type="checkbox"/> Climate change <input type="checkbox"/> Weak Cooperation <input type="checkbox"/> Other, namely</p>	<p><input type="checkbox"/> Losses <input type="checkbox"/> Quantity <input type="checkbox"/> Quality <input type="checkbox"/> Water tariffs</p> <p><input type="checkbox"/> legislation and policy framework <input type="checkbox"/> Lack of funding <input type="checkbox"/> Infrastructure</p> <p><input type="checkbox"/> Capacities : <input type="checkbox"/> institutional <input type="checkbox"/> technical <input type="checkbox"/> human</p> <p><input type="checkbox"/> Climate change <input type="checkbox"/> Weak Cooperation <input type="checkbox"/> Other, namely</p>
<p>What are the most important steps and activities that would improve water supply in terms of aforementioned issues and constraints? (Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to different issues/problems)</p>	
<p><input checked="" type="checkbox"/> More information on climate change impacts on the water resources management and future planning;</p> <p><input checked="" type="checkbox"/> Improved knowledge of uncertainties that influence climate change adaptation measures;</p> <p><input checked="" type="checkbox"/> Improved knowledge about future water availability and future planning;</p> <p><input checked="" type="checkbox"/> Improved knowledge about future water safety;</p> <p><input type="checkbox"/> Improved management practices for cross-border water supply systems;</p> <p><input type="checkbox"/> Common protocol development for the Cross- border / regional WSS and WRS management;</p> <p><input type="checkbox"/> Implementation of the priority measures for more efficient and effective WSS and WR management;</p> <p><input type="checkbox"/> Reduction of the water loss and leakage real time monitoring;</p>	<p><input type="checkbox"/> More information on climate change impacts on the water resources management and future planning;</p> <p><input type="checkbox"/> Improved knowledge of uncertainties that influence climate change adaptation measures;</p> <p><input type="checkbox"/> Improved knowledge about future water availability and future planning;</p> <p><input type="checkbox"/> Improved knowledge about future water safety;</p> <p><input type="checkbox"/> Improved management practices for cross-border water supply systems;</p> <p><input type="checkbox"/> Common protocol development for the Cross- border / regional WSS and WRS management;</p> <p><input type="checkbox"/> Implementation of the priority measures for more efficient and effective WSS and WR management;</p> <p><input type="checkbox"/> Reduction of the water loss and leakage real time monitoring;</p>

<p><input type="checkbox"/> Modern methodologies application for the real time control of: leakage, water quality, pumps schedules, etc.</p> <p><input type="checkbox"/> Development of WEB page that would improve cooperation and knowledge exchange and transfer relevant for WRM and DWS issues;</p> <p><input type="checkbox"/> Other, namely :</p>	<p>Do you think that some cross-cutting issues can be solved by:</p> <p>(Please rank them: 1 the most significant, 5 the least significant, it is possible assign the same rank to maximum two issues/problems)</p> <p><input type="checkbox"/> Policy that would address the majority of issues</p> <p><input type="checkbox"/> Separate policies that would address the majority of issues</p> <p><input type="checkbox"/> Better cooperation among different sectors</p> <p><input type="checkbox"/> Better cooperation among local and national authorities</p> <p><input type="checkbox"/> More financial resources</p> <p><input type="checkbox"/> Water tariffs</p> <p><input type="checkbox"/> Other, namely :</p>
<p>Please list the 3 most significant actors/ actions for improved water supply and water resources management:</p> <p>CATO REGION HYDRAULIC SERVICE</p>	<p>What are the actions that your institution/ organization might take to improve water supply and water resources management and contribute to its sustainability?</p> <p>ACTIONS OF THE MANAGEMENT PLAN (DIR 2000/60 CE)</p>
<p>Do you think that only state activities contribute to improved water supply:</p> <p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p> <p>If the answer is NO please list other institutional levels of significance:</p> <p>REGION AND CATO</p>	<p>Your familiarity/ knowledge with role and activities of Bilateral Commissions of significance for cross – border/ regional water supply and water resources management:</p> <p><input checked="" type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input type="checkbox"/> Deficient</p>
<p>Your familiarity/ knowledge with role and activities of Local Authorities of significance for cross – border/ regional water supply:</p> <p><input checked="" type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input type="checkbox"/> Deficient</p>	<p>Your familiarity/ knowledge with role and activities of Local Authorities of significance for cross – border/ regional water supply:</p> <p><input checked="" type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input type="checkbox"/> Deficient</p>



DRINKADRIA

Networking for Drinking Water Supply in Adriatic Region



QUESTIONNAIRE ON CROSS BORDER /REGIONAL WATER SUPPLY SYSTEMS AND WATER RESOURCES MANAGEMENT

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Are there legislative frameworks (treaties, agreements, Memorandum of Understanding, etc.) that are significant for cross-border/ regional water supply systems and water resource management you are familiar with in your country/region: <input type="checkbox"/> YES <input checked="" type="checkbox"/> No If the answer is yes, please provide the title
Your familiarity with issues/ constraints regarding cross- border / regional water resources: <input type="checkbox"/> Comprehensive <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Deficient Please provide additional comments if any:
Implementation level of River basin Management Plans at the national level: <input type="checkbox"/> Completed <input checked="" type="checkbox"/> Ongoing <input type="checkbox"/> Pending Please provide additional comments if any:
Implementation level of River basin Management Plans (transboundary river basins) : <input type="checkbox"/> Completed <input checked="" type="checkbox"/> Ongoing <input type="checkbox"/> Pending Please provide additional comments if any:
What are the most important topics that you would like to become more familiar regarding to cross- border /regional water supply systems and water resources management?
Do you consider this type of workshops/roundtables useful: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Neutral
Additional Comments:

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & Sustainability

Name: Surname: Institution/ Organization: (If you wish to remain anonymous, please do not fill)	PAOLO PLOSSE PROVINCE OF TRIESTE (I)
Your Institution/ Organization mission /main scope of the work: <input type="checkbox"/> Water utility <input checked="" type="checkbox"/> Authority : <input checked="" type="checkbox"/> local <input type="checkbox"/> regional <input type="checkbox"/> national <input type="checkbox"/> Research Organization <input type="checkbox"/> Water Association <input type="checkbox"/> Other (please specify):	
Your activities are mainly focused on : <input type="checkbox"/> water supply <input checked="" type="checkbox"/> water protection <input type="checkbox"/> education/research <input type="checkbox"/> international cooperation <input type="checkbox"/> financial/ legislative <input type="checkbox"/> other, namely :	
What spatial scale reflects the best your activities and tasks? (Please use percentile estimation in a way that total amount is 100% Example: local -55% national -25% other - 20%) local 80% regional 20% national _ % international _ % other, namely : _ %	
What are the main water supply management issues/ problems at the present? (Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems) <input type="checkbox"/> Losses <input type="checkbox"/> Quantity <input checked="" type="checkbox"/> Quality <input type="checkbox"/> Water tariffs <input checked="" type="checkbox"/> legislation and policy framework <input type="checkbox"/> Lack of funding <input checked="" type="checkbox"/> Infrastructure <input checked="" type="checkbox"/> Capacities : <input type="checkbox"/> Institutional <input type="checkbox"/> technical <input type="checkbox"/> human <input checked="" type="checkbox"/> Climate change <input type="checkbox"/> Weak Cooperation <input type="checkbox"/> Other, namely :	

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & Sustainability

<p>Please rank the following in terms of before mentioned issues/problems: (Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)</p> <p>LOSSES</p> <p><input type="checkbox"/> unauthorized consumption 4 <input type="checkbox"/> metering errors 3 <input type="checkbox"/> distribution network leakage</p> <p><input type="checkbox"/> distribution network leakage 1 <input type="checkbox"/> water supply facilities leakage 2</p> <p><input type="checkbox"/> other, please specify</p> <p>QUANTITY</p> <p><input type="checkbox"/> increase in water use 4 <input type="checkbox"/> seasonal fluctuations 3 <input type="checkbox"/> water storage capacities</p> <p><input type="checkbox"/> changes in land use practices 2 <input type="checkbox"/> high consumption by other sectors (agriculture, industry, etc) 1</p> <p><input type="checkbox"/> Climate Change 5 <input type="checkbox"/> other, please specify</p> <p>QUALITY</p> <p><input type="checkbox"/> point source pollution 2 <input type="checkbox"/> nonpoint source pollution 1 <input type="checkbox"/> source protection issues 3</p> <p><input type="checkbox"/> changes in land use practices 5 <input type="checkbox"/> seasonal fluctuation 4 <input type="checkbox"/> Climate Change</p> <p><input type="checkbox"/> other, please specify</p> <p>WATER SUPPLY DISTRIBUTION CONSTRAINTS</p> <p><input type="checkbox"/> inadequate network 2 <input type="checkbox"/> pumping stations capacities <input type="checkbox"/> reservoirs deficiency</p> <p><input type="checkbox"/> poor maintenance of water supply distribution system 3 <input type="checkbox"/> ageing 1</p> <p><input type="checkbox"/> other, please specify</p>	<p>What are the main water supply management constraints in the near future (next 25-30 years) ? (Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)</p> <p><input type="checkbox"/> Losses <input type="checkbox"/> Quantity 5 <input type="checkbox"/> Quality 1 <input type="checkbox"/> Water tariffs 4</p> <p><input type="checkbox"/> legislation and policy framework <input type="checkbox"/> Lack of funding 2 <input type="checkbox"/> Infrastructure 3</p> <p><input type="checkbox"/> Capacities : <input type="checkbox"/> Institutional <input type="checkbox"/> technical <input type="checkbox"/> human</p> <p><input type="checkbox"/> Climate change <input type="checkbox"/> Weak Cooperation <input type="checkbox"/> Other, namely</p>
<p>What are the most important steps and activities that would improve water supply in terms of aforementioned issues and constraints? (Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to different issues/problems)</p> <p><input type="checkbox"/> More information on climate change impacts on the water resources management and future planning;</p> <p><input type="checkbox"/> Improved knowledge of uncertainties that influence climate change adaptation measures;</p> <p><input type="checkbox"/> Improved knowledge about future water availability and future planning;</p> <p><input type="checkbox"/> Improved knowledge of land use practices impact on DWS and source protection zones definition;</p> <p><input type="checkbox"/> Improved knowledge about future water safety;</p> <p><input type="checkbox"/> Improved management practices for cross-border water supply systems;</p> <p><input type="checkbox"/> Common protocol development for the Cross-border / regional WSS and WRS management;</p> <p><input type="checkbox"/> Implementation of the priority measures for more efficient and effective WSS and WR management;</p> <p><input type="checkbox"/> Reduction of the water loss and leakage real time monitoring;</p>	

<p><input type="checkbox"/> Modern methodologies application for the real time control of: leakage, water quality, pumps schedules, etc.</p> <p><input type="checkbox"/> Development of WEB page that would improve cooperation and knowledge exchange and transfer relevant for WRM and DWS issues;</p> <p><input type="checkbox"/> Other, namely :</p>	<p>Do you think that some cross-cutting issues can be solved by:</p> <p>(Please rank them: 1 the most significant, 5 the least significant, it is possible assign the same rank to maximum two issues/problems)</p> <p><input type="checkbox"/> Policy that would address the majority of issues</p> <p><input type="checkbox"/> Separate policies that would address the majority of issues</p> <p><input type="checkbox"/> Better cooperation among different sectors</p> <p><input type="checkbox"/> Better cooperation among local and national authorities</p> <p><input type="checkbox"/> More financial resources</p> <p><input type="checkbox"/> Water tariffs</p> <p><input type="checkbox"/> Other, namely :</p>
<p>Please list the 3 most significant actors/ actions for improved water supply and water resources management:</p>	<p>What are the actions that your institution/ organization might take to improve water supply and water resources management and contribute to its sustainability?</p>
<p>Do you think that only state activities contribute to improved water supply:</p> <p><input type="checkbox"/> YES <input checked="" type="checkbox"/> No</p> <p>If the answer is NO please list other institutional levels of significance: LOCAL (REGIONAL)</p>	<p>Your familiarity/ knowledge with role and activities of Bilateral Commissions of significance for cross – border/ regional water supply and water resources management:</p> <p><input type="checkbox"/> Comprehensive <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Deficient</p>
<p>Your familiarity/ knowledge with role and activities of Local Authorities of significance for cross – border/ regional water supply:</p> <p><input checked="" type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input type="checkbox"/> Deficient</p>	



DRINKADRIA

Networking for Drinking Water Supply in Adriatic Region



QUESTIONNAIRE ON CROSS BORDER /REGIONAL WATER SUPPLY SYSTEMS AND WATER RESOURCES MANAGEMENT

The Capitalization and sustainability activity (CS) is an important project component that would provide framework for exchange of relevant information of significance for cross- border/ regional water supply systems among stakeholders, authorities, research institutions, etc.

Yours feedbacks collected during the national workshops provide valuable inputs and contribute to successful DRINKADRIA project implementation.

Name: Surname: Institution/ Organization: (If you wish to remain anonymous, please do not fill)	Bruno Bella DEPT. OF ENGINEERING / ARCHITECTURE TRIESTE UNIVERSITY
Your Institution/ Organization mission /main scope of the work: <input type="checkbox"/> Water utility <input type="checkbox"/> Authority <input type="checkbox"/> local <input type="checkbox"/> regional <input type="checkbox"/> national <input checked="" type="checkbox"/> Research Organization <input type="checkbox"/> Water Association <input type="checkbox"/> Other (please specify):	
Your activities are mainly focused on : <input type="checkbox"/> water supply <input checked="" type="checkbox"/> water protection <input checked="" type="checkbox"/> education/research <input type="checkbox"/> international cooperation <input type="checkbox"/> financial/ legislative <input type="checkbox"/> other, namely :	
What spatial scale reflects the best your activities and tasks? (Please use percentile estimation in a way that total amount is 100% Example: local -55% national -25%, other - 20%) local <u>30</u> % regional <u>40</u> % national <u>20</u> % international <u>10</u> % other, namely : _____ %	
What are the main water supply management issues/ problems at the present? (Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems) <input checked="" type="checkbox"/> Losses <input checked="" type="checkbox"/> Quantity <input checked="" type="checkbox"/> Quality <input checked="" type="checkbox"/> Water tariffs <input checked="" type="checkbox"/> Legislation and policy framework <input checked="" type="checkbox"/> Lack of funding <input checked="" type="checkbox"/> Infrastructure <input checked="" type="checkbox"/> Capacities : <input checked="" type="checkbox"/> Institutional <input type="checkbox"/> technical <input type="checkbox"/> human <input type="checkbox"/> Climate change <input checked="" type="checkbox"/> Weak Cooperation <input type="checkbox"/> Other, namely :	

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & Sustainability

Are there legislative frameworks (treaties, agreements, Memorandum of Understanding, etc.) that are significant for cross-border/ regional water supply systems and water resource management you are familiar with in your country/region: <input checked="" type="checkbox"/> YES <input type="checkbox"/> No If the answer is yes, please provide the title
Your familiarity with issues/ constraints regarding cross- border / regional water resources: <input type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Deficient Please provide additional comments if any:
Implementation level of River basin Management Plans at the national level: <input checked="" type="checkbox"/> Completed <input type="checkbox"/> Ongoing <input type="checkbox"/> Pending Please provide additional comments if any: GAP-UK on ANGA udine
Implementation level of River basin Management Plans (transboundary river basins) : <input type="checkbox"/> Completed <input type="checkbox"/> Ongoing <input type="checkbox"/> Pending Please provide additional comments if any:
What are the most important topics that you would like to become more familiar regarding to cross- border /regional water supply systems and water resources management?
Do you consider this type of workshops/roundtables useful: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Neutral
Additional Comments: WATER - ENVIRONMENT - ENERGY: SEA WATER DESALINATION BY LOCAL RENEWABLE ENERGY SOURCES, ALONG THE LOCAL - COASTAL ADRIATIC COMMUNITIES / CITIES, SHOULD BE CONSIDERED FOR THE COUNTRIES WITH WELL GROUND WATER RESOURCES AVAILABLE NEAR BY.

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & Sustainability

Please rank the following in terms of before mentioned issues/problems:
(Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

2

LOSSES

☒ unauthorized consumption **3**

☒ distribution network leakage **1**

☒ other, please specify **4**

1

QUANTITY

☒ increase in water use **2**

☒ changes in land use practices **3**

☒ Climate Change **4**

1

QUALITY

☒ point source pollution **2**

☒ changes in land use practices **4**

☒ other, please specify **5**

3

WATER SUPPLY DISTRIBUTION CONSTRAINTS

☒ inadequate network **3**

☒ poor maintenance of water supply distribution system **4**

☒ other, please specify **5**

1

What are the main water supply management constraints in the near future (next 25-30 years)?
(Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

2

LOSSES

☒ legislation and policy framework **3**

☒ institutional **4**

☒ technical **5**

☒ human **6**

☒ Climate change **7**

☒ Weak Cooperation **8**

☒ Other, namely **9**

2

What are the most important steps and activities that would improve water supply in terms of aforementioned issues and constraints?
(Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to different issues/problems)

2

☒ More information on climate change impacts on the water resources management and future planning;

☒ Improved knowledge of uncertainties that influence climate change adaptation measures;

☒ Improved knowledge about future water availability and future planning;

☒ Improved knowledge of land use practices impact on DWS and source protection zones definition;

☒ Improved knowledge about future water safety;

☒ Improved management practices for cross-border water supply systems;

☒ Common protocol development for the Cross-border / regional WSS and WRS management;

☒ Implementation of the priority measures for more efficient and effective WSS and WR management;

☒ Reduction of the water loss and leakage real time monitoring;

1

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & Sustainability

2

☒ Modern methodologies application for the real time control of: leakage, water quality, pumps schedules, etc.

☒ Development of WEB page that would improve cooperation and knowledge exchange and transfer relevant for WRM and DWS issues;

☒ Other, namely :

Do you think that some cross-cutting Issues can be solved by:

(Please rank them: 1 the most significant, 5 the least significant, it is possible assign the same rank to maximum two Issues/problems)

1

☒ Policy that would address the majority of Issues

5

☒ Separate policies that would address the majority of Issues

2

☒ Better cooperation among different sectors

1

☒ Better cooperation among local and national authorities

2

☒ More financial resources

3

☒ Water tariffs

3

☒ Other, namely: LONG TERM PLANNING / MANAGEMENT GUINELINESES

Please list the 3 most significant actors/ actions for improved water supply and water resources management:

1

FINANCIAL RESOURCES

2

ADEQUATE POLICY AND TARIFF PLANS

3

BETTER COOPERATION

What are the actions that your institution/ organization might take to improve water supply and water resources management and contribute to its sustainability?

1

ADDITIONAL CHARACTERIZATION / MONITORING

2

HARVEST / RISK ASSESSMENT STUDIES

Do you think that only state activities contribute to improved water supply:

☒ YES

☒ NO

If the answer is NO please list other institutional levels of significance:

1

REGIONAL / TRANS - REGIONAL LEVELS

2

LINK TO LOCAL NETWORK USERS

3

EDUCATION / DISSEMINATION OF BEST PRACTICES

Your familiarity/ knowledge with role and activities of Bilateral Commissions of significance for cross - border/ regional water supply and water resources management:

☒ Comprehensive ☒ Moderate ☒ Deficient

Your familiarity/ knowledge with role and activities of Local Authorities of significance for cross - border/ regional water supply:

☒ Comprehensive ☒ Moderate ☒ Deficient

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & Sustainability



DRINK ADRIA

Networking for Drinking Water Supply in Adriatic Region



QUESTIONNAIRE ON CROSS BORDER /REGIONAL WATER SUPPLY SYSTEMS AND WATER RESOURCES MANAGEMENT

The Capitalization and sustainability activity (CS) is an important project component that would provide framework for exchange of relevant information of significance for cross- border/ regional water supply systems among stakeholders, authorities, research institutions, etc.

Yours feedbacks collected during the national workshops provide valuable inputs and contribute to successful DRINKADRIA project implementation.

Are there legislative frameworks (treaties, agreements, Memorandum of Understanding, etc.) that are significant for cross-border/ regional water supply systems and water resource management you are familiar with in your country/region: <input type="checkbox"/> YES <input checked="" type="checkbox"/> No If the answer is yes, please provide the title
Your familiarity with issues/ constraints regarding cross- border / regional water resources: <input type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Deficient Please provide additional comments if any:
Implementation level of River basin Management Plans at the national level: <input type="checkbox"/> Completed <input checked="" type="checkbox"/> Ongoing <input type="checkbox"/> Pending Please provide additional comments if any:
Implementation level of River basin Management Plans (transboundary river basins) : <input type="checkbox"/> Completed <input checked="" type="checkbox"/> Ongoing <input type="checkbox"/> Pending Please provide additional comments if any:
What are the most important topics that you would like to become more familiar regarding to cross- border /regional water supply systems and water resources management?
Do you consider this type of workshops/roundtables useful: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Neutral
Additional Comments:

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & Sustainability

Name: Surname: Institution/ Organization: (If you wish to remain anonymous, please do not fill)	ANDREA RUBIN ACEGAS-APS MUNICIPIJ
Your Institution/ Organization mission /main scope of the work: <input checked="" type="checkbox"/> Water utility <input type="checkbox"/> Authority : <input type="checkbox"/> local <input type="checkbox"/> regional <input type="checkbox"/> national <input type="checkbox"/> Research Organization <input type="checkbox"/> Water Association <input type="checkbox"/> Other (please specify):	
Your activities are mainly focused on : <input checked="" type="checkbox"/> water supply <input type="checkbox"/> water protection <input type="checkbox"/> education/research <input type="checkbox"/> international cooperation <input type="checkbox"/> financial/ legislative <input type="checkbox"/> other, namely :	
What spatial scale reflects the best your activities and tasks? (Please use percentile estimation in a way that total amount is 100% Example: local -55%, national -25%, other - 20%) local 40% regional 30% national 50% international 10% other, namely : _ % _ %	
What are the main water supply management issues/ problems at the present? (Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems) <input type="checkbox"/> Losses 5 <input type="checkbox"/> Quantity 2 <input type="checkbox"/> Quality 4 <input type="checkbox"/> Water tariffs <input type="checkbox"/> legislation and policy framework <input type="checkbox"/> Lack of funding 4 <input type="checkbox"/> Infrastructure <input type="checkbox"/> Capacities : <input type="checkbox"/> Institutional 3 <input type="checkbox"/> technical <input type="checkbox"/> human <input type="checkbox"/> Climate change <input type="checkbox"/> Weak Cooperation <input type="checkbox"/> Other, namely :	

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & Sustainability

<p>Please rank the following in terms of before mentioned issues/problems: (Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)</p> <p>LOSSES</p> <p><input type="checkbox"/> unauthorized consumption <input type="checkbox"/> metering errors <input type="checkbox"/> distribution network leakage</p> <p><input type="checkbox"/> distribution network leakage <input type="checkbox"/> water supply facilities leakage</p> <p><input type="checkbox"/> other, please specify</p> <p>QUANTITY</p> <p><input type="checkbox"/> increase in water use <input type="checkbox"/> seasonal fluctuations <input type="checkbox"/> water storage capacities</p> <p><input type="checkbox"/> changes in land use practices <input type="checkbox"/> high consumption by other sectors (agriculture, industry, etc)</p> <p><input type="checkbox"/> Climate Change <input type="checkbox"/> other, please specify</p> <p>QUALITY</p> <p><input type="checkbox"/> point source pollution <input type="checkbox"/> nonpoint source pollution <input type="checkbox"/> source protection issues</p> <p><input type="checkbox"/> changes in land use practices <input type="checkbox"/> seasonal fluctuation <input type="checkbox"/> Climate Change</p> <p><input type="checkbox"/> other, please specify</p> <p>WATER SUPPLY DISTRIBUTION CONSTRAINTS</p> <p><input type="checkbox"/> inadequate network <input type="checkbox"/> pumping stations capacities <input type="checkbox"/> reservoirs deficiency</p> <p><input type="checkbox"/> poor maintenance of water supply distribution system <input type="checkbox"/> ageing</p> <p><input type="checkbox"/> other, please specify</p>	<p>What are the main water supply management constraints in the near future (next 25-30 years) ? (Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)</p> <p><input type="checkbox"/> Losses <input type="checkbox"/> Quantity <input type="checkbox"/> Quality <input type="checkbox"/> Water tariffs</p> <p><input type="checkbox"/> legislation and policy framework <input type="checkbox"/> Lack of funding <input type="checkbox"/> Infrastructure</p> <p><input type="checkbox"/> Capacities <input type="checkbox"/> Institutional <input type="checkbox"/> technical <input type="checkbox"/> human</p> <p><input type="checkbox"/> Climate change <input type="checkbox"/> Weak Cooperation <input type="checkbox"/> Other, namely</p>
<p>What are the most important steps and activities that would improve water supply in terms of aforementioned issues and constraints? (Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to different issues/problems)</p> <p><input type="checkbox"/> More information on climate change impacts on the water resources management and future planning;</p> <p><input type="checkbox"/> Improved knowledge of uncertainties that influence climate change adaptation measures;</p> <p><input type="checkbox"/> Improved knowledge about future water availability and future planning;</p> <p><input type="checkbox"/> Improved knowledge of land use practices impact on DWS and source protection zones definition;</p> <p><input type="checkbox"/> Improved knowledge about future water safety;</p> <p><input type="checkbox"/> Improved management practices for cross-border water supply systems;</p> <p><input type="checkbox"/> Common protocol development for the Cross-border / regional WSS and WRS management;</p> <p><input type="checkbox"/> Implementation of the priority measures for more efficient and effective WSS and WR management;</p> <p><input type="checkbox"/> Reduction of the water loss and leakage real time monitoring;</p>	

<p><input type="checkbox"/> Modern methodologies application for the real time control of: leakage, water quality, pumps schedules, etc.</p> <p><input type="checkbox"/> Development of WEB page that would improve cooperation and knowledge exchange and transfer relevant for WRM and DWS issues;</p> <p><input type="checkbox"/> Other, namely :</p>	<p>Do you think that some cross-cutting issues can be solved by:</p> <p>(Please rank them: 1 the most significant, 5 the least significant, it is possible assign the same rank to maximum two issues/problems)</p> <p><input type="checkbox"/> Policy that would address the majority of issues</p> <p><input type="checkbox"/> Separate policies that would address the majority of issues</p> <p><input type="checkbox"/> Better cooperation among different sectors</p> <p><input type="checkbox"/> Better cooperation among local and national authorities</p> <p><input type="checkbox"/> More financial resources</p> <p><input type="checkbox"/> Water tariffs</p> <p><input type="checkbox"/> Other, namely :</p>
<p>Please list the 3 most significant actors/ actions for Improved water supply and water resources management:</p>	<p>What are the actions that your institution/ organization might take to improve water supply and water resources management and contribute to its sustainability?</p>
<p>Do you think that only state activities contribute to improved water supply: <input checked="" type="checkbox"/> YES <input type="checkbox"/> No</p> <p>If the answer is NO please list other institutional levels of significance:</p>	<p>Do you think that only state activities contribute to improved water supply: <input checked="" type="checkbox"/> YES <input type="checkbox"/> No</p> <p>If the answer is NO please list other institutional levels of significance:</p>
<p>Your familiarity/ knowledge with role and activities of Bilateral Commissions of significance for cross – border/ regional water supply and water resources management:</p> <p><input type="checkbox"/> Comprehensive <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Deficient</p>	<p>Your familiarity/ knowledge with role and activities of Local Authorities of significance for cross – border/ regional water supply:</p> <p><input type="checkbox"/> Comprehensive <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Deficient</p>



DRINK ADRIA

Networking for Drinking Water Supply in Adriatic Region



QUESTIONNAIRE ON CROSS BORDER /REGIONAL WATER SUPPLY SYSTEMS AND WATER RESOURCES MANAGEMENT

The Capitalization and sustainability activity (CS) is an important project component that would provide framework for exchange of relevant information of significance for cross-border/ regional water supply systems among stakeholders, authorities, research institutions, etc.

Your feedbacks collected during the national workshops provide valuable inputs and contribute to successful DRINKADRIA project implementation.

Are there legislative frameworks (treaties, agreements, Memorandum of Understanding, etc.) that are significant for cross-border/ regional water supply systems and water resource management you are familiar with in your country/region: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO If the answer is yes, please provide the title
Your familiarity with issues/ constraints regarding cross-border / regional water resources: <input type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Deficient Please provide additional comments if any:
Implementation level of River basin Management Plans at the national level: <input type="checkbox"/> Completed <input checked="" type="checkbox"/> Ongoing <input type="checkbox"/> Pending Please provide additional comments if any:
Implementation level of River basin Management Plans (transboundary river basins) : <input type="checkbox"/> Completed <input checked="" type="checkbox"/> Ongoing <input type="checkbox"/> Pending Please provide additional comments if any:
What are the most important topics that you would like to become more familiar regarding to cross-border /regional water supply systems and water resources management?
Do you consider this type of workshops/roundtables useful: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Neutral
Additional Comments:

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & Sustainability

Name: Surname: Institution/ Organization: (If you wish to remain anonymous, please do not fill)	VITTORIO TUNTI ACEGAS-APS MULINARI
Your Institution/ Organization mission /main scope of the work: <input checked="" type="checkbox"/> Water utility <input type="checkbox"/> Authority : <input type="checkbox"/> local <input type="checkbox"/> regional <input type="checkbox"/> national <input type="checkbox"/> Research Organization <input type="checkbox"/> Water Association <input type="checkbox"/> Other (please specify):	
Your activities are mainly focused on : <input checked="" type="checkbox"/> water supply <input type="checkbox"/> water protection <input type="checkbox"/> education/research <input type="checkbox"/> international cooperation <input type="checkbox"/> financial/ legislative <input type="checkbox"/> other, namely :	
What spatial scale reflects the best your activities and tasks? (Please use percentile estimation in a way that total amount is: 100% Example: local -55%, national -25%, other - 20%) local 20% regional 30% national 50% international _ % other, namely : _ %	
What are the main water supply management issues/ problems at the present? (Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems) <input checked="" type="checkbox"/> Losses <input checked="" type="checkbox"/> Quantity <input type="checkbox"/> Quality <input type="checkbox"/> Water tariffs <input type="checkbox"/> legislation and policy framework <input type="checkbox"/> Lack of funding <input checked="" type="checkbox"/> Infrastructure <input type="checkbox"/> Capacities : <input checked="" type="checkbox"/> institutional <input type="checkbox"/> technical <input type="checkbox"/> human <input type="checkbox"/> Climate change <input type="checkbox"/> Weak Cooperation <input type="checkbox"/> Other, namely :	

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & Sustainability

2

Please rank the following in terms of before mentioned issues/problems:
(Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

LOSSES

☐ unauthorized consumption ☐ metering errors ☐ distribution network leakage

☐ distribution network leakage ☐ water supply facilities leakage

☐ other, please specify

QUANTITY

☐ increase in water use ☐ seasonal fluctuations ☐ water storage capacities

☐ changes in land use practices ☐ high consumption by other sectors (agriculture, industry, etc)

☐ Climate Change ☐ other, please specify

QUALITY

☐ point source pollution ☐ nonpoint source pollution ☐ source protection issues

☐ changes in land use practices ☐ seasonal fluctuation ☐ Climate Change

☐ other, please specify

WATER SUPPLY DISTRIBUTION CONSTRAINTS

☐ inadequate network ☐ pumping stations capacities ☐ reservoirs deficiency

☐ poor maintenance of water supply distribution system ☐ ageing

☐ other, please specify

What are the main water supply management constraints in the near future (next 25-30 years) ?
(Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

☐ Losses ☐ Quantity ☐ Quality ☐ Water tariffs

☐ legislation and policy framework ☐ Lack of funding ☐ Infrastructure

☐ Capacities ☐ Institutional ☐ technical ☐ human

☐ Climate change ☐ Weak Cooperation ☐ Other, namely

What are the most important steps and activities that would improve water supply in terms of aforementioned issues and constraints?
(Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to different issues/problems)

☐ More information on climate change impacts on the water resources management and future planning;

☐ Improved knowledge of uncertainties that influence climate change adaptation measures;

☐ Improved knowledge about future water availability and future planning;

☐ Improved knowledge of land use practices impact on DWS and source protection zones definition;

☐ Improved knowledge about future water safety;

☐ Improved management practices for cross-border water supply systems;

☐ Common protocol development for the Cross-border / regional WSS and WRS management;

☐ Implementation of the priority measures for more efficient and effective WSS and WR management;

☐ Reduction of the water loss and leakage real time monitoring;

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & Sustainability

2

☐ Modern methodologies application for the real time control of: leakage, water quality, pumps schedules, etc.

☐ Development of WEB page that would improve cooperation and knowledge exchange and transfer relevant for WRM and DWS issues;

☐ Other, namely :

Do you think that some cross-cutting issues can be solved by:

(Please rank them: 1 the most significant, 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

☐ Policy that would address the majority of issues

☐ Separate policies that would address the majority of issues

☐ Better cooperation among different sectors

☐ Better cooperation among local and national authorities

☐ More financial resources

☐ Water tariffs

☐ Other, namely :

Please list the 3 most significant actors/ actions for improved water supply and water resources management:

Real Time control of leakage, water quality, pumps

What are the actions that your institution/ organization might take to improve water supply and water resources management and contribute to its sustainability?

Do you think that only state activities contribute to improved water supply:

☒ YES ☐ No

If the answer is NO please list other institutional levels of significance:

Your familiarity/ knowledge with role and activities of Bilateral Commissions of significance for cross – border/ regional water supply and water resources management:

☐ Comprehensive ☒ Moderate ☐ Deficient

Your familiarity/ knowledge with role and activities of Local Authorities of significance for cross – border/ regional water supply:

☐ Comprehensive ☒ Moderate ☐ Deficient

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & Sustainability



DRINKADRIA

Networking for Drinking Water Supply in Adriatic Region



QUESTIONNAIRE ON CROSS BORDER /REGIONAL WATER SUPPLY SYSTEMS AND WATER RESOURCES MANAGEMENT

The Capitalization and sustainability activity (CS) is an important project component that would provide framework for exchange of relevant information of significance for cross-border / regional water supply systems among stakeholders, authorities, research institutions, etc.

Your feedbacks collected during the national workshops provide valuable inputs and contribute to successful DRINKADRIA project implementation.

Are there legislative frameworks (treaties, agreements, Memorandum of Understanding, etc.) that are significant for cross-border / regional water supply systems and water resource management you are familiar with in your country/region: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO If the answer is yes, please provide the title
Your familiarity with issues/ constraints regarding cross-border / regional water resources: <input type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Deficient Please provide additional comments if any:
Implementation level of River basin Management Plans at the national level: <input type="checkbox"/> Completed <input checked="" type="checkbox"/> Ongoing <input type="checkbox"/> Pending Please provide additional comments if any:
Implementation level of River basin Management Plans (transboundary river basins) : <input type="checkbox"/> Completed <input checked="" type="checkbox"/> Ongoing <input type="checkbox"/> Pending Please provide additional comments if any:
What are the most important topics that you would like to become more familiar regarding to cross-border /regional water supply systems and water resources management?
Do you consider this type of workshops/roundtables useful: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Neutral
Additional Comments:

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & Sustainability

Name: Surname: Institution/ Organization: (If you wish to remain anonymous, please do not fill)	MICHELLE CAFE UD MULATUNY
Your Institution/ Organization mission /main scope of the work: <input checked="" type="checkbox"/> Water utility <input type="checkbox"/> Authority : <input type="checkbox"/> local <input type="checkbox"/> regional <input type="checkbox"/> national <input type="checkbox"/> Research Organization <input type="checkbox"/> Water Association <input type="checkbox"/> Other (please specify):	
Your activities are mainly focused on : <input checked="" type="checkbox"/> water supply <input checked="" type="checkbox"/> water protection <input type="checkbox"/> education/research <input type="checkbox"/> international cooperation <input type="checkbox"/> financial/ legislative <input type="checkbox"/> other, namely :	
What spatial scale reflects the best your activities and tasks? (Please use percentile estimation in a way that total amount is 100% Example: local -55%, national -25%, other - 20%) local <input checked="" type="checkbox"/> % regional <input type="checkbox"/> % national <input type="checkbox"/> % international <input type="checkbox"/> % other, namely : <input type="checkbox"/> %	
What are the main water supply management issues/ problems at the present? (Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems) 4 <input type="checkbox"/> Losses <input type="checkbox"/> Quantity <input checked="" type="checkbox"/> Quality <input type="checkbox"/> Water tariffs 5 <input type="checkbox"/> legislation and policy framework <input type="checkbox"/> Lack of funding <input checked="" type="checkbox"/> Infrastructure <input type="checkbox"/> Capacities : <input type="checkbox"/> Institutional <input checked="" type="checkbox"/> technical <input type="checkbox"/> human <input type="checkbox"/> Climate change <input type="checkbox"/> Weak Cooperation <input type="checkbox"/> Other, namely :	

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & Sustainability

<p>Please rank the following in terms of before mentioned issues/problems: (Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)</p>	
<p>LOSSES</p> <p><input type="checkbox"/> Unauthorized consumption <input type="checkbox"/> metering errors <input type="checkbox"/> distribution network leakage</p> <p><input checked="" type="checkbox"/> distribution network leakage <input type="checkbox"/> water supply facilities leakage</p> <p><input type="checkbox"/> other, please specify</p>	<p>QUANTITY</p> <p><input type="checkbox"/> increase in water use <input checked="" type="checkbox"/> seasonal fluctuations <input checked="" type="checkbox"/> water storage capacities</p> <p><input type="checkbox"/> changes in land use practices <input type="checkbox"/> high consumption by other sectors (agriculture, industry, etc)</p> <p><input type="checkbox"/> Climate Change <input type="checkbox"/> other, please specify</p>
<p>QUALITY</p> <p><input type="checkbox"/> point source pollution <input type="checkbox"/> no point source pollution <input type="checkbox"/> source protection issues</p> <p><input type="checkbox"/> changes in land use practices <input type="checkbox"/> seasonal fluctuation <input type="checkbox"/> Climate Change</p> <p><input type="checkbox"/> other, please specify</p>	<p>WATER SUPPLY DISTRIBUTION CONSTRAINS</p> <p><input checked="" type="checkbox"/> inadequate network <input type="checkbox"/> pumping stations capacities <input type="checkbox"/> reservoirs deficiency</p> <p><input type="checkbox"/> poor maintenance of water supply distribution system <input type="checkbox"/> ageing</p> <p><input type="checkbox"/> other, please specify</p>
<p>What are the main water supply management constraints in the near future (next 25- 30 years) ? (Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)</p>	
<p><input type="checkbox"/> Losses <input checked="" type="checkbox"/> Quantity <input checked="" type="checkbox"/> Quality <input checked="" type="checkbox"/> Water tariffs</p> <p><input type="checkbox"/> legislation and policy framework <input type="checkbox"/> Lack of funding <input type="checkbox"/> Infrastructure</p> <p><input type="checkbox"/> Capacities : <input type="checkbox"/> Institutional <input type="checkbox"/> technical <input type="checkbox"/> human</p> <p><input type="checkbox"/> Climate change <input type="checkbox"/> Weak Cooperation <input type="checkbox"/> Other, namely</p>	<p><input type="checkbox"/> Losses <input checked="" type="checkbox"/> Quantity <input checked="" type="checkbox"/> Quality <input checked="" type="checkbox"/> Water tariffs</p> <p><input type="checkbox"/> legislation and policy framework <input type="checkbox"/> Lack of funding <input type="checkbox"/> Infrastructure</p> <p><input type="checkbox"/> Capacities : <input type="checkbox"/> Institutional <input type="checkbox"/> technical <input type="checkbox"/> human</p> <p><input type="checkbox"/> Climate change <input type="checkbox"/> Weak Cooperation <input type="checkbox"/> Other, namely</p>
<p>What are the most important steps and activities that would improve water supply in terms of aforementioned issues and constraints? (Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to different issues/problems)</p>	
<p><input type="checkbox"/> More information on climate change impacts on the water resources management and future planning;</p> <p><input type="checkbox"/> Improved knowledge of uncertainties that influence climate change adaptation measures;</p> <p><input checked="" type="checkbox"/> Improved knowledge about future water availability and future planning;</p> <p><input checked="" type="checkbox"/> Improved knowledge about future water safety;</p> <p><input checked="" type="checkbox"/> Improved knowledge about future water safety;</p> <p><input type="checkbox"/> Improved management practices for cross-border water supply systems;</p> <p><input type="checkbox"/> Common protocol development for the Cross- border / regional WSS and WMS management;</p> <p><input type="checkbox"/> Implementation of the priority measures for more efficient and effective WSS and WR management;</p> <p><input type="checkbox"/> Reduction of the water loss and leakage real time monitoring;</p>	<p><input type="checkbox"/> More information on climate change impacts on the water resources management and future planning;</p> <p><input type="checkbox"/> Improved knowledge of uncertainties that influence climate change adaptation measures;</p> <p><input checked="" type="checkbox"/> Improved knowledge about future water availability and future planning;</p> <p><input checked="" type="checkbox"/> Improved knowledge about future water safety;</p> <p><input checked="" type="checkbox"/> Improved knowledge about future water safety;</p> <p><input type="checkbox"/> Improved management practices for cross-border water supply systems;</p> <p><input type="checkbox"/> Common protocol development for the Cross- border / regional WSS and WMS management;</p> <p><input type="checkbox"/> Implementation of the priority measures for more efficient and effective WSS and WR management;</p> <p><input type="checkbox"/> Reduction of the water loss and leakage real time monitoring;</p>

<p><input type="checkbox"/> Modern methodologies application for the real time control of: leakage, water quality, pumps schedules, etc.</p> <p><input type="checkbox"/> Development of WEB page that would improve cooperation and knowledge exchange and transfer relevant for WRM and DWS issues;</p> <p><input type="checkbox"/> Other, namely :</p>	<p>Do you think that some cross-cutting issues can be solved by:</p> <p>(Please rank them: 1 the most significant, 5 the least significant, it is possible assign the same rank to maximum two issues/problems)</p> <p><input type="checkbox"/> Policy that would address the majority of issues</p> <p><input type="checkbox"/> Separate policies that would address the majority of issues</p> <p><input type="checkbox"/> Better cooperation among different sectors</p> <p><input type="checkbox"/> Better cooperation among local and national authorities</p> <p><input type="checkbox"/> More financial resources</p> <p><input type="checkbox"/> Water tariffs</p> <p><input type="checkbox"/> Other, namely :</p>
<p>Please list the 3 most significant actors/ actions for improved water supply and water resources management:</p>	<p>Please list the 3 most significant actors/ actions for improved water supply and water resources management:</p>
<p>What are the actions that your institution/ organization might take to improve water supply and water resources management and contribute to its sustainability?</p>	<p>What are the actions that your institution/ organization might take to improve water supply and water resources management and contribute to its sustainability?</p>
<p>Do you think that only state activities contribute to improved water supply:</p> <p><input type="checkbox"/> YES <input checked="" type="checkbox"/> No</p> <p>If the answer is NO please list other Institutional levels of significance:</p> <p>WATER UTILITY</p>	<p>Do you think that only state activities contribute to improved water supply:</p> <p><input type="checkbox"/> YES <input checked="" type="checkbox"/> No</p> <p>If the answer is NO please list other Institutional levels of significance:</p> <p>WATER UTILITY</p>
<p>Your familiarity/ knowledge with role and activities of Bilateral Commissions of significance for cross – border/ regional water supply and water resources management:</p> <p><input type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Deficient</p>	<p>Your familiarity/ knowledge with role and activities of Bilateral Commissions of significance for cross – border/ regional water supply and water resources management:</p> <p><input type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Deficient</p>
<p>Your familiarity/ knowledge with role and activities of Local Authorities of significance for cross – border/ regional water supply:</p> <p><input checked="" type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input type="checkbox"/> Deficient</p>	<p>Your familiarity/ knowledge with role and activities of Local Authorities of significance for cross – border/ regional water supply:</p> <p><input checked="" type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input type="checkbox"/> Deficient</p>



DRINKADRIA

Networking for Drinking Water Supply in Adriatic Region



QUESTIONNAIRE ON CROSS BORDER /REGIONAL WATER SUPPLY SYSTEMS AND WATER RESOURCES MANAGEMENT

The Capitalization and sustainability activity (CS) is an important project component that would provide framework for exchange of relevant information of significance for cross- border/ regional water supply systems among stakeholders, authorities, research institutions, etc.

Yours feedbacks collected during the national workshops provide valuable inputs and contribute to successful DRINKADRIA project implementation.

Are there legislative frameworks (treaties, agreements, Memorandum of Understanding, etc.) that are significant for cross-border/ regional water supply systems and water resource management you are familiar with in your country/region: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO If the answer is yes, please provide the title
Your familiarity with issues/ constraints regarding cross- border / regional water resources: <input type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Deficient Please provide additional comments if any:
Implementation level of River basin Management Plans at the national level: <input type="checkbox"/> Completed <input type="checkbox"/> Ongoing <input type="checkbox"/> Pending Please provide additional comments if any:
Implementation level of River basin Management Plans (transboundary river basins) : <input type="checkbox"/> Completed <input type="checkbox"/> Ongoing <input type="checkbox"/> Pending Please provide additional comments if any:
What are the most important topics that you would like to become more familiar regarding to cross- border /regional water supply systems and water resources management? WATER QUALITY - PROTECTION - TARIFFS
Do you consider this type of workshops/roundtables useful: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Neutral
Additional Comments:

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & sustainability

Name: Surname: Institution/ Organization: (if you wish to remain anonymous, please do not fill)	CARLO CHICOMELLO AMGA SPA MULTIUTILITY S.p.A
Your Institution/ Organization mission /main scope of the work: <input checked="" type="checkbox"/> Water utility <input type="checkbox"/> Authority : <input type="checkbox"/> local <input type="checkbox"/> regional <input type="checkbox"/> national <input type="checkbox"/> Research Organization <input type="checkbox"/> Water Association <input type="checkbox"/> Other (please specify):	
Your activities are mainly focused on : <input checked="" type="checkbox"/> water supply <input type="checkbox"/> water protection <input type="checkbox"/> education/research <input type="checkbox"/> international cooperation <input type="checkbox"/> financial/ legislative <input type="checkbox"/> other, namely :	
What spatial scale reflects the best your activities and tasks? (Please use percentile estimation in a way that total amount is 100% Example: local -55%, national -25%, other - 20%) local 80% regional _ % national _ % international 20% other, namely : _ % _ %	
What are the main water supply management issues/ problems at the present? (Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems) <input checked="" type="checkbox"/> Losses 1 <input checked="" type="checkbox"/> Quantity 4 <input type="checkbox"/> Quality 2 <input type="checkbox"/> Water tariffs 1 <input type="checkbox"/> legislation and policy framework 2 <input type="checkbox"/> Lack of funding 1 <input checked="" type="checkbox"/> infrastructure 1 <input type="checkbox"/> Capacities : <input type="checkbox"/> institutional 2 <input type="checkbox"/> technical 2 <input type="checkbox"/> human 2 <input type="checkbox"/> Climate change 3 <input type="checkbox"/> Weak Cooperation 3 <input type="checkbox"/> Other, namely : 3	

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & Sustainability

Please rank the following in terms of before mentioned issues/problems:
(Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

LOSSES

☐ unauthorized consumption **5** ☐ metering errors **2** ☐ distribution network leakage

☐ distribution network leakage **1** ☐ water supply facilities leakage **4**

☐ other, please specify

QUANTITY

☐ increase in water use **4** ☐ seasonal fluctuations **1** ☐ water storage capacities **3**

☐ changes in land use practices **2** ☐ high consumption by other sectors (agriculture, industry, etc) **1**

☐ Climate Change **5** ☐ other, please specify

QUALITY

☐ point source pollution **2** ☐ nonpoint source pollution **2** ☐ source protection issues **5**

☐ changes in land use practices **1** ☐ seasonal fluctuation **3** ☐ Climate Change **3**

☐ other, please specify

WATER SUPPLY DISTRIBUTION CONSTRAINTS

☐ inadequate network **3** ☐ pumping stations capacities **1** ☐ reservoirs deficiency **2**

☐ poor maintenance of water supply distribution system **2** ☐ ageing **1**

☐ other, please specify

What are the main water supply management constraints in the near future (next 25- 30 years) ?
(Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

☐ Losses **2** ☐ Quantity **1** ☐ Quality **1** ☐ Water tariffs **1**

☐ legislation and policy framework **2** ☐ Lack of funding **1** ☐ Infrastructure **1**

☐ Capacities : ☐ Institutional ☐ technical ☐ human **5**

☐ Climate change **5** ☐ Weak Cooperation **3** ☐ Other, namely

What are the most important steps and activities that would improve water supply in terms of aforementioned issues and constraints?
(Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to different issues/problems)

☐ More information on climate change impacts on the water resources management and future planning; **5**

☐ Improved knowledge of uncertainties that influence climate change adaptation measures; **4**

☐ Improved knowledge about future water availability and future planning; **2**

☐ Improved knowledge of land use practices impact on DWS and source protection zones definition; **2**

☐ Improved knowledge about future water safety; **3**

☐ Improved management practices for cross-border water supply systems; **5**

☐ Common protocol development for the Cross-border / regional WSS and WRS management; **5**

☐ Implementation of the priority measures for more efficient and effective WSS and WR management; **1**

☐ Reduction of the water loss and leakage, real time monitoring; **1**

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & Sustainability

☐ Modern methodologies application for the real time control of: leakage, water quality, pumps schedules, etc. **1**

☐ Development of WEB page that would improve cooperation and knowledge exchange and transfer relevant for WRM and DWS issues; **5**

☐ Other, namely :

Do you think that some cross-cutting issues can be solved by:

(Please rank them: 1 the most significant, 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

☐ Policy that would address the majority of issues **1**

☐ Separate policies that would address the majority of issues **1**

☐ Better cooperation among different sectors **2**

☐ Better cooperation among local and national authorities **2**

☐ More financial resources **3**

☐ Water tariffs **4**

☐ Other, namely :

Please list the 3 most significant actors/ actions for improved water supply and water resources management:

1. ENERGY EFFICIENCY

2. PROTECTION POLICIES

What are the actions that your institution/ organization might take to improve water supply and water resources management and contribute to its sustainability?

AUTHORITIES AND WATER UTILITIES

Do you think that only state activities contribute to improved water supply:

☐ YES ☒ No

If the answer is NO please list other institutional levels of significance:

ANY STAKEHOLDER MAY CONTRIBUTE

Your familiarity/ knowledge with role and activities of Bilateral Commissions of significance for cross - border/ regional water supply and water resources management:

☐ Comprehensive ☐ Moderate ☒ Deficient

Your familiarity/ knowledge with role and activities of Local Authorities of significance for cross - border/ regional water supply:

☐ Comprehensive ☐ Moderate ☒ Deficient

DRINKADRIA STAKEHOLDERS QUESTIONNAIRE -WP 3 Capitalization & Sustainability



Networking for Drinking Water Supply in Adriatic Region



QUESTIONNAIRE ON CROSS BORDER /REGIONAL WATER SUPPLY SYSTEMS AND WATER RESOURCES MANAGEMENT

The Capitalization and sustainability activity (CS) is an important project component that would provide framework for exchange of relevant information of significance for cross- border/ regional water supply systems among stakeholders, authorities, research institutions, etc.

Yours feedbacks collected during the national workshops provide valuable inputs and contribute to successful DRINKADRIA project implementation.

Name:	MARCO
Surname:	GATTA
Institution/ Organization: (If you wish to remain anonymous, please do not fill)	FEDERUTILITY

Your Institution/ Organization mission /main scope of the work:

☐ Water utility ☐ Authority : ☐ local, ☐ regional ☐ national
☐ Research Organization ☒ Water Association ☐ Other (please specify):

Your activities are mainly focused on :

☒ water supply ☒ water protection ☐ education/research
☐ international cooperation ☒ financial/ legislative ☐ other, namely :

What spatial scale reflects the best your activities and tasks?
 (Please use percentile estimation in a way that total amount is 100%
 Example: local -55%, national -25%, other - 20%)

local _ % regional _ % national ¹⁰⁰ _ % international _ % other, namely : _____, _ %

What are the main water supply management issues/ problems at the present?
 (Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

☐ Losses **3** ☐ Quantity **4** ☐ Quality **4** ☐ Water tariffs **1**
☐ legislation and policy framework **2** ☐ Lack of funding **2** ☐ Infrastructure **1**
☐ Capacities : ☐ institutional ☐ technical ☐ human **3**
☐ Climate change **3** ☐ Weak Cooperation ☐ Other, namely :

Please rank the following in terms of before mentioned issues/problems:

(Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

LOSSES

- ☐ unauthorized consumption **2** ☐ metering errors **2** ☐ distribution network leakage **1**
☐ distribution network leakage ☐ water supply facilities leakage **3**
☐ other, please specify: **TECHNICAL KNOW-HOW DISSEMINATION 1**

QUANTITY

- ☐ increase in water use **4** ☐ seasonal fluctuations **2** ☐ water storage capacities **2**
☐ changes in land use practices **3** ☐ high consumption by other sectors (agriculture, industry, etc) **1**
☐ Climate Change **1** ☐ other, please specify

QUALITY

- ☐ point source pollution **1** ☐ nonpoint source pollution **2** ☐ source protection issues **2**
☐ changes in land use practices **3** ☐ seasonal fluctuation **4** ☐ Climate Change **1**
☐ other, please specify

WATER SUPPLY DISTRIBUTION CONSTRAINS

- ☐ inadequate network **3** ☐ pumping stations capacities **3** ☐ reservoirs deficiency **4**
☐ poor maintenance of water supply distribution system **2** ☐ ageing **1**
☐ other, please specify

What are the main water supply management constrains in the near future (next 25- 30 years) ?

(Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

- ☐ Losses **4** ☐ Quantity **3** ☐ Quality **4** ☐ Water tariffs **2**
☐ legislation and policy framework **3** ☐ Lack of funding ☐ Infrastructure **1**
☐ Capacities : ☐ institutional ☐ technical ☐ human **5**
☐ Climate change ☐ Weak Cooperation ☐ Other, namely **5**

What are the most important steps and activities that would improve water supply in terms of aforementioned issues and constrains?

(Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to different issues/problems)

- ☐ More information on climate change impacts on the water resources management and future planning; **1**
☐ Improved knowledge of uncertainties that influence climate change adaptation measures; **5**
☐ Improved knowledge about future water availability and future planning; **1**
☐ Improved knowledge of land use practices impact on DWS and source protection zones definition; **3**
☐ Improved knowledge about future water safety; **2**
☐ Improved management practices for cross-border water supply systems; **5**
☐ Common protocol development for the Cross- border / regional WSS and WRS management; **4**
☐ Implementation of the priority measures for more efficient and effective WSS and WR management; **3**
☐ Reduction of the water loss and leakage real time monitoring; **4**

- ☐ Modern methodologies application for the real time control of: leakage, water quality, pumps schedules, etc. **2**
- ☐ Development of WEB page that would improve cooperation and knowledge exchange and transfer relevant for WRM and DWS issues; **6**
- ☐ Other, namely :

Do you think that some cross-cutting issues can be solved by:

(Please rank them: 1 the most significant , 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

- ☐ Policy that would address the majority of issues **1**
- ☐ Separate policies that would address the majority of issues **4**
- ☐ Better cooperation among different sectors **3**
- ☐ Better cooperation among local and national authorities **2**
- ☐ More financial resources **1**
- ☐ Water tariffs **3**
- ☐ Other, namely :

Please list the 3 most significant actors/ actions for improved water supply and water resources management:

- **MONEY**
- **TECHNICAL KNOW-HOW**
- **INSTITUTIONAL FRAMEWORK**

What are the actions that your institution/ organization might take to improve water supply and water resources management and contribute to its sustainability?

- **TALK TO INSTITUTIONS, PUBLIC BODIES . . .**
- **DISSEMINATE INFORMATION**

Do you think that only state activities contribute to improved water supply:

☐ YES ☒ No

If the answer is NO please list other institutional levels of significance:

- **WATER PROVIDERS**
- **ASSOCIATIONS**
- **CONSUMERS**
- **RESEARCH INSTITUTES/UNIVERSITY**

Your familiarity/ knowledge with role and activities of Bilateral Commissions of significance for cross – border/ regional water supply and water resources management:

☐ Comprehensive ☒ Moderate ☐ Deficient

Your familiarity/ knowledge with role and activities of Local Authorities of significance for cross – border/ regional water supply:

☐ Comprehensive ☒ Moderate ☐ Deficient

Are there legislative frameworks (treaties, agreements, Memorandum of Understanding, etc.) that are significant for cross-border/ regional water supply systems and water resource management you are familiar with in your country/region:

☒ YES ☐ No

If the answer is yes, please provide the title

EU DIRECTIVE 2000/60/CE

Your familiarity with issues/ constraints regarding cross- border / regional water resources:

☐ Comprehensive ☒ Moderate ☐ Deficient

Please provide additional comments if any:

Implementation level of River basin Management Plans at the national level:

☒ Completed ☒ Ongoing ☐ Pending

Please provide additional comments if any:

ALMOST COMPLETED

Implementation level of River basin Management Plans (transboundary river basins) :

☐ Completed ☒ Ongoing ☐ Pending

Please provide additional comments if any:

What are the most important topics that you would like to become more familiar regarding to cross- border /regional water supply systems and water resources management?

- ~~WATER~~ SOFT MANAGEMENT OF AQUIFERS
- CONTRACTS FOR CROSS-BORDER WATER SUPPLY

Do you consider this type of workshops/roundtables useful:

☒ Yes ☐ No ☐ Neutral

Additional Comments:

WP3

Capitalization and sustainability

A.ATO 3 (FB2) Contribution

Corfu, september 24, 2015

Eng. Daniele Nardi

Let's grow up together

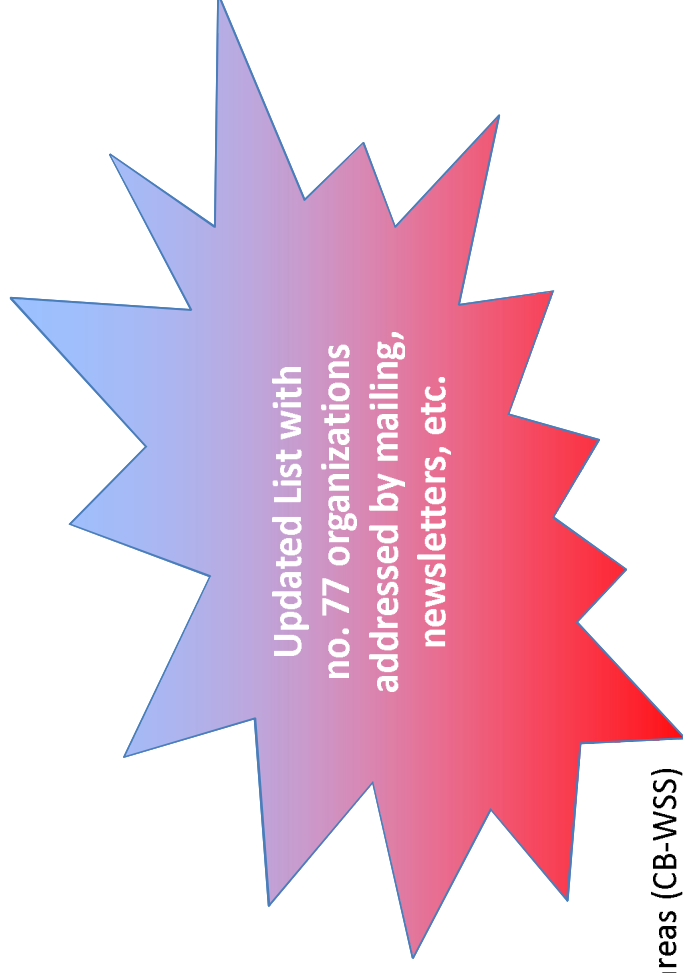


The project is co-funded by the European Union,
Instrument for Pre-Accession Assistance

STAKEHOLDERS

Involved/addressed Stakeholders List:

1. River Basin District Authorities
2. Marche Region / Umbria Region (CB-WSS)
3. ARPAM (Regional Environmental Protection Agency)
4. ASUR (Regional/Local Health Organization)
5. Regional River Basin Authority
6. Civil Protection Department
7. Provinces in Marche Region (n. 5)
8. Municipalities in ATO 3 (n. 48)
9. Universities of Camerino, Macerata and Ancona
10. Other Utilities in ATO 3 and neighboring optimal territorial areas (CB-WSS)
11. Associations
12. ...



WORKSHOP (January 2015)

SOME NUMBERS:

- Invited people (mailing list, etc.): over 100
- Participants: n. 51
- Representatives of:

Utilities	n.	
Local Authorities:		24
Municipalities		7
Province Administration		2
Other (A.ATO)		5
Regional Authorities		6
National Authorities		1
Research Institutes/University		3
Consumers Associations		1
Trade Unions		1
Utilities Associations		1

DRINKADRIA (WP3), A.ATO 3 (FB2) Contribution
Capitalization and sustainability - Summary report



IL SERVIZIO IDRICO NELL'ATO 3 MACERATA:
"Quali prospettive per gli utenti"
VENERDI' 23 GENNAIO 2015 - ORE 09.00

Nuova sede ACQUAMBIENTE MARCHE (Sala riunioni)
 Via Recanatese, 27/I - CASTELFIDARDO

Gradita conferma
 mail: info@aato3marche.it
 Tel. 0733/235.644

<p>09.00 Registrazione partecipanti e consegna box cofanetto</p> <p>Saluti:</p> <p>09.30 Mirco Soprani - Sindaco di Castelfidardo Alessandro Maccioni - Presidente Acquambiente Marche</p> <p>Interventi:</p> <p>10.00 Presentazione cofanetto "AATO 3 Macerata: passato presente e futuro" e "10 anni di comunicazione" Antonio Secchiari - Presidente AATO 3 Macerata Gli affidamenti nell'ATO 3 a seguito del Decreto Sblocca Italia (D.Lgs. 133/2014) Massimo Principi - Direttore AATO 3 MACERATA Le tariffe idriche nell'ATO 3 Macerata per il primo quadro regolatorio AEEGSI (2012-2015) Fulvio Riccio - Responsabile Area Tariffaria ATO 3 Macerata Amministrazione trasparente nell'AATO 3 Macerata Massimiliano Grifi - Servizio Affari Generali AATO 3 Macerata Progetto DRINKADRIA: obiettivi generali e primi risultati Daniele Nardi - Responsabile Servizio Tecnico AATO 3 Marche</p> <p>12.00 Dibattito Moderatore Massimo Principi</p> <p>12.30 Aperitivo buffet</p>	<p> AATO 3 Marche Centro - Macerata</p> <p> AATO 3 Marche Centro - Macerata</p> <p> AATO 3 Marche Centro - Macerata</p> <p> AATO 3 Marche Centro - Macerata</p>	<p> AATO 3 Marche Centro - Macerata</p> <p> AATO 3 Marche Centro - Macerata</p> <p> AATO 3 Marche Centro - Macerata</p> <p> AATO 3 Marche Centro - Macerata</p>
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WORKSHOP (January 2015)

Workshop: Il Progetto DRINKADRIA Obiettivi generali e primi risultati

WP3 – Capitalizzazione e sostenibilità:

- ✓ Progetto interregionale "PRISMAS": Sorveglianza e monitoraggio quali-quantitativo acque sotterranee www.pcs.unibs.it/ital/prismas (PTTA, 94/96)

UE Leonardo da Vinci Projects – Lifelong Learning Programme

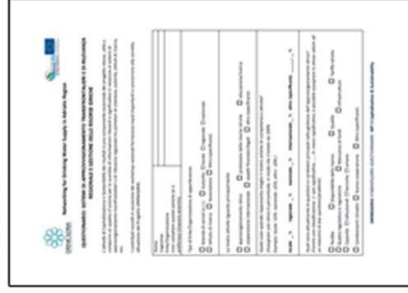
- ✓ Progetto "PROWAT": Strategie per la riduzione delle perdite idriche www.prowat.com - www.prowat.net
- ✓ Progetto "PM4WAT": Manutenzione preventiva delle reti idriche www.wat4clack.eu

- UE Life + Programme
- ✓ Progetto "WATCLIC": Water Against Climate Change www.wat4clack.eu

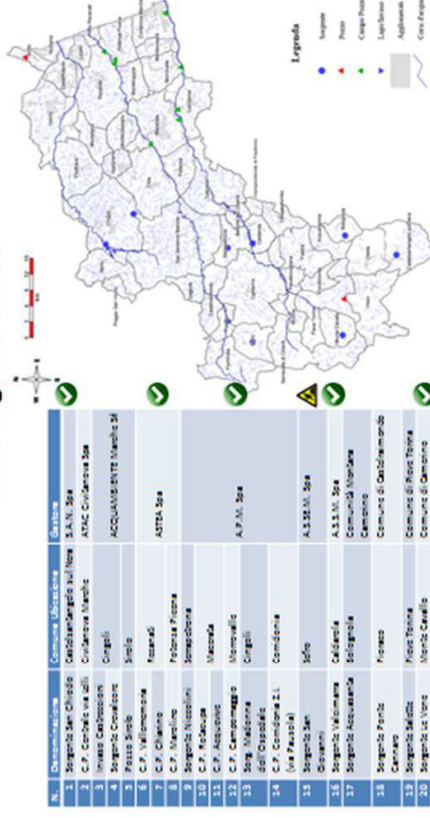
Workshop: Il Progetto DRINKADRIA
Obiettivi generali e primi risultati
Castelfidardo (AN), 23 gennaio 2015



3. Il Ruolo dell'A.ATO 3



4. Il Progetto Pilota



Workshop: Il Progetto DRINKADRIA
Obiettivi generali e primi risultati
Castelfidardo (AN), 23 gennaio 2015



The project is co-funded by the European Union
under the LIFE Programme



DRINKADRIA (WP2), A.ATO 3 (FB2) Contribution
Actions implemented and to be
implemented in the next reporting period

DRINKADRIA (WP2), A.ATO 3 (FB2) Contribution
Actions implemented and to be
implemented in the next reporting period



WORKSHOP (January 2015)



DRINKADRIA (WP3), A.ATO 3 (FB2) Contribution
Capitalization and sustainability - Summary report




QUESTIONNAIRES


Shared questionnaire distributed to all present stakeholders
(n. 51 participants), representing:

- ☐ Utilities
- ☐ Local Authorities (Municipalities, Province Administrations, other A.ATO)
- ☐ Regional Authorities
- ☐ National Authorities (National Association of A.ATO)
- ☐ Research Institutes (University)
- ☐ Consumers Associations
- ☐ Trade Unions
- ☐ Utilities Associations





DRINKADRIA
Networking for Drinking Water Supply in Adriatic Region



Aspirato FPA
Aspirato FPA

QUESTIONARIO: SISTEMI DI APPROVVIGIONAMENTO TRANSFRONTALIERI E DI RILEVANZA REGIONALE E SEZIONE DELLE RISORSE IDRICHE

L'attività di Capitalizzazione e Sostenibilità dei risultati è una componente essenziale del progetto stesso, utile a comporre un quadro d'insieme per lo scambio di informazioni rilevanti e significative in relazione ai sistemi di approvvigionamento transfrontalieri e di rilevanza regionale tra portatori di interesse, autorità, istituti di ricerca, ecc.

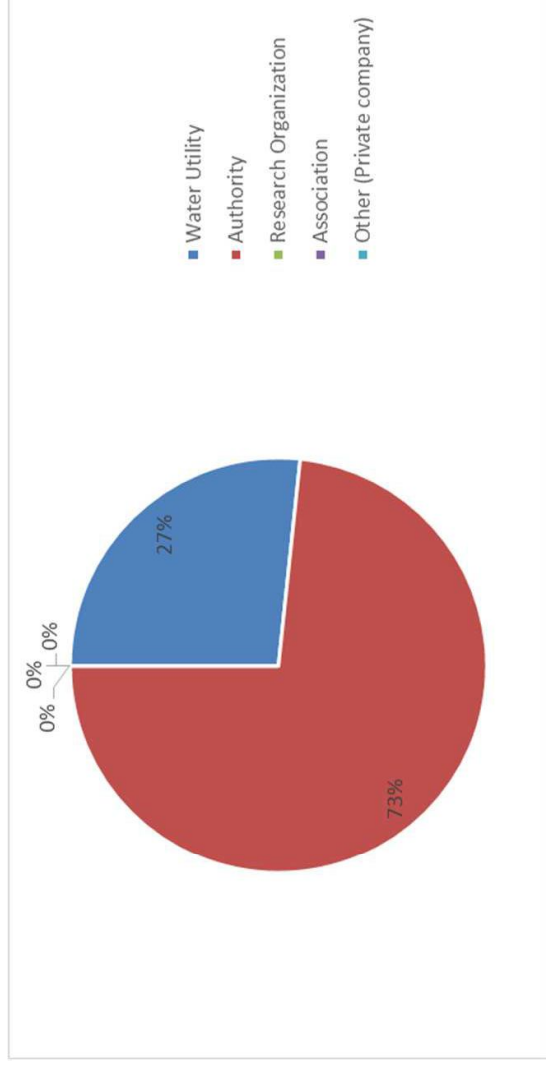
I contributi raccolti in occasione dei workshop nazionali forniscono input importanti e concorrono alla corretta attuazione del Progetto DRINKADRIA.

Nome:	
Cognome:	
Ente/Organizzazione:	
Indirizzo (se non è possibile, indicare la sezione se si preferisce rimanere anonimi):	
Tipo di Ente/Organizzazione di appartenenza:	
<input type="checkbox"/> Azienda di servizi (S.U.I.) <input type="checkbox"/> Autonoma <input type="checkbox"/> Locale <input type="checkbox"/> Regionale <input type="checkbox"/> Nazionale <input type="checkbox"/> Istituto di ricerca <input type="checkbox"/> Associazione <input type="checkbox"/> Altro (specificare):	
La Vostra attività riguarda principalmente:	
<input type="checkbox"/> approvvigionamento idrico <input type="checkbox"/> protezione delle risorse idriche <input type="checkbox"/> educazione/ricerca <input type="checkbox"/> cooperazione internazionale <input type="checkbox"/> aspetti finanziari/legali <input type="checkbox"/> altro (specificare):	
Quale scala spaziale rappresenta meglio il Vostro ambito di competenza e attività? (Assegnare una stima in percentuale, in modo che il totale sia 100% Esempio: locale -55%, nazionale -25%, altro -20%)	
locale _ %	regionale _ % nazionale _ % internazionale _ % altro (specificare): _ %
Quali sono attualmente le questioni e i problemi principali nella gestione dell'approvvigionamento idrico? (Fornire una classificazione: 1 - più significativo, ... 5 - meno significativo; è possibile assegnare lo stesso valore ad un massimo di due questioni/problemi)	
<input type="checkbox"/> Perdite <input type="checkbox"/> Disponibilità della risorsa <input type="checkbox"/> Qualità <input type="checkbox"/> Tariffe idriche <input type="checkbox"/> Quadro legislativo e regolatorio <input type="checkbox"/> Mancanza di fondi <input type="checkbox"/> Infrastrutture <input type="checkbox"/> Capacità <input type="checkbox"/> Istituzionali <input type="checkbox"/> Tecniche <input type="checkbox"/> Umane <input type="checkbox"/> Cambiamenti climatici <input type="checkbox"/> Scarso coordinamento <input type="checkbox"/> Altro (specificare):	

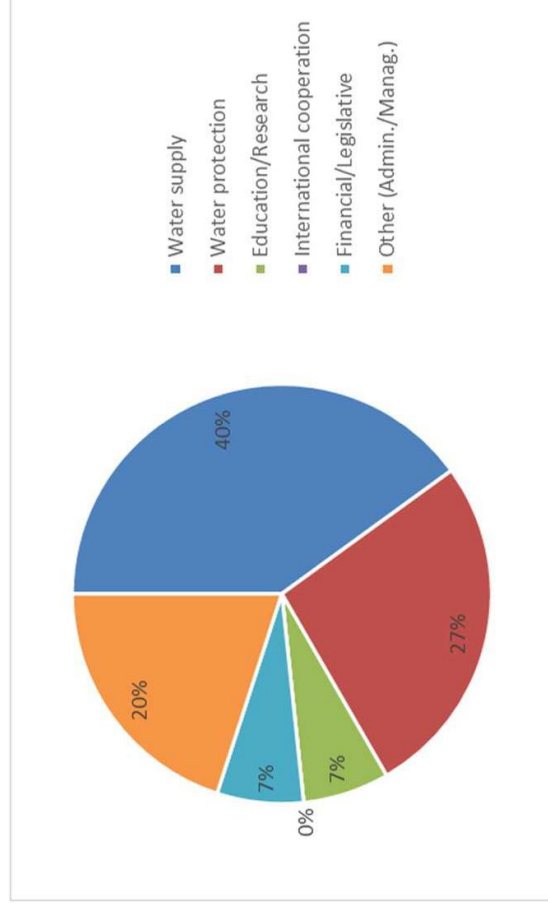
DRINKADRIA STAKEHOLDERS QUESTIONNAIRE - WP 3 Capitalization & Sustainability

SUMMARY

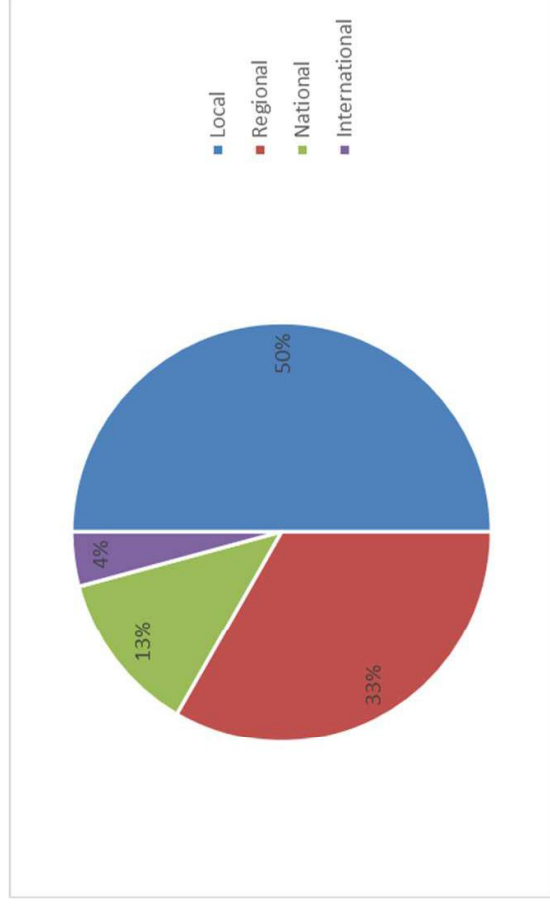
Question 1 – Type of Institution



Question 2 – Main scope of the work



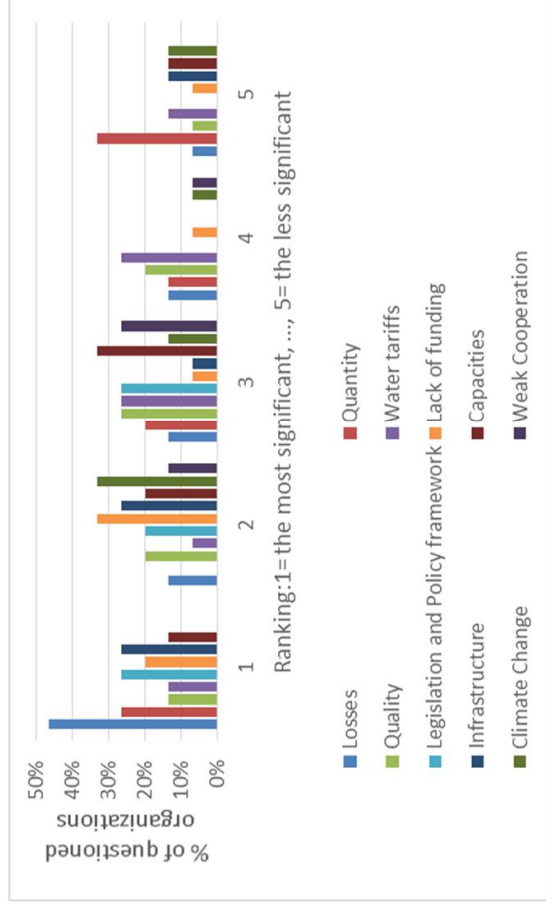
Question 3 – Spatial scale



DRINKADRIA (WP3), A.ATO 3 (FB2) Contribution
Capitalization and sustainability - Summary report

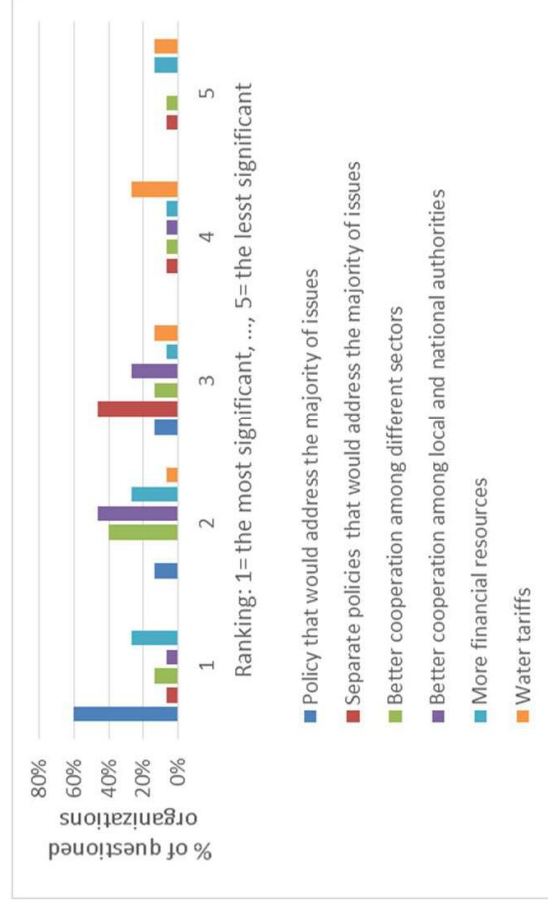
SUMMARY

Question 4 – WS management main issues/problems



Question 5 – Steps/ activities to improve WS

- Assets maintenance/ renewal
- Fundraising for the huge investment needed to renew assets
- WSSs interconnection
- A single operator (Utility) in each Optimal Territorial Area
- Research for new water resources
- Increased human resources professionalism (qualified personnel)
- More efficient water services management



Question 6 – Some cutting issues can be solved by:

DRINKADRIA (WP3), A.ATO 3 (FB2) Contribution
Capitalization and sustainability - Summary report

SUMMARY

Question 7 – The 3 most significant actors/actions for improved WS and WR management:

1. New, more clear **legislation framework**, aiming at improving Utilities' effectiveness and operational timesaving
2. Improving WSSs assets condition, thanks to **proper investment planning** by the Local/regional Authorities and pricing mechanisms suitable to widen funding possibilities
3. Ensuring good quality water availability, by **saving resource**, reducing losses and implementing DWPAs measures
...limitating political pressure on Water Utilities is also considered an important factor!

Question 8 – Actions to be taken (by involved Organizations) to improve WS and WR management:

- ✓ To promote merging of small utilities to create **bigger companies with stronger economic and financial capacities**, so to have one single operator in water services for each Optimal Territorial Area, with **more resources for investment**
- ✓ To ensure a **better coordination between different level authorities**
- ✓ To provide **proper planning of WSS development and interconnections**, so assuring more efficient management and saving costs, which also means raising funds for investments

SUMMARY

Question 9 – Only State activities for improved WS?

- 20% YES
- 40% NO: regional and local institutional levels also significant
- 20% no answer

Question 11 – The most important topics to become more familiar with:

Question 10 – Familiarity with issues/ constraints concerning CB/regional WSS:

- 0% Comprehensive
- 47% Moderate
- 40% not sufficient
- 13% no answer

- ☐ Pricing approaches and models applied/ to be applied
- ☐ Agreement schemes
- ☐ Responsibilities attribution among contractors
- ☐ Water safety issues
- ☐ Monitoring activities
- ☐ DWPPAs measures



DRINKADRIA (WP3), A.ATO 3 (FB2) Contribution
Corfu, september 24, 2015

Let's grow up together



The project is co-funded by the European Union,
Instrument for Pre-Accession Assistance

WP3

Capitalization and sustainability

A.ATO 3 (FB2) Contribution

Corfu, september 24, 2015

Eng. Daniele Nardi

Let's grow up together

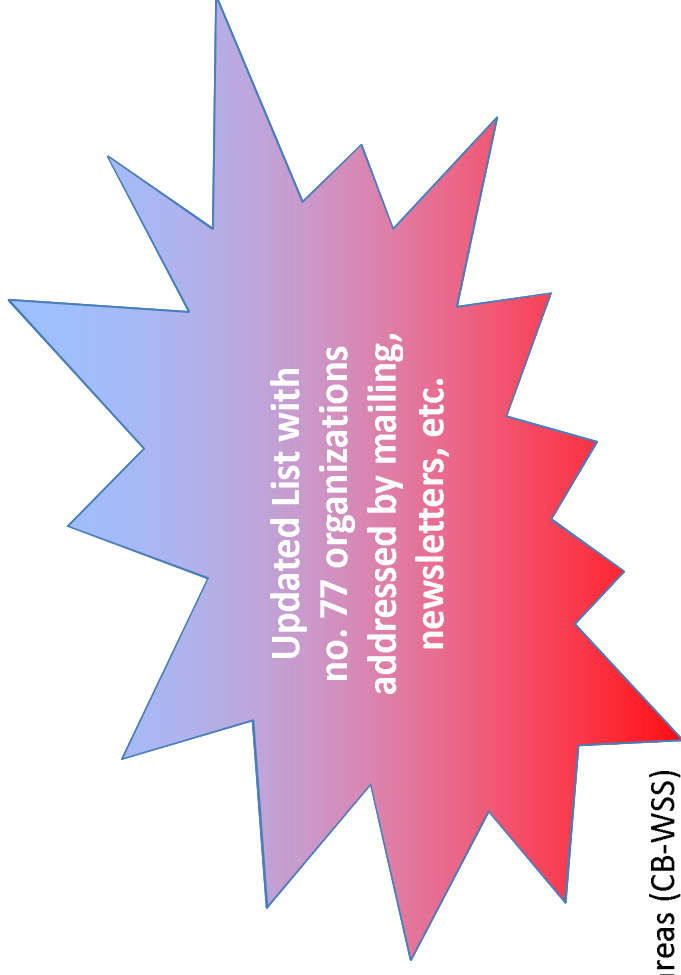


The project is co-funded by the European Union,
Instrument for Pre-Accession Assistance

STAKEHOLDERS

Involved/addressed Stakeholders List:

1. River Basin District Authorities
2. Marche Region / Umbria Region (CB-WSS)
3. ARPAM (Regional Environmental Protection Agency)
4. ASUR (Regional/Local Health Organization)
5. Regional River Basin Authority
6. Civil Protection Department
7. Provinces in Marche Region (n. 5)
8. Municipalities in ATO 3 (n. 48)
9. Universities of Camerino, Macerata and Ancona
10. Other Utilities in ATO 3 and neighboring optimal territorial areas (CB-WSS)
11. Associations
12. ...



WORKSHOP (January 2015)

SOME NUMBERS:

- Invited people (mailing list, etc.): over 100
- Participants: n. 51
- Representatives of:

Utilities	n.	
Local Authorities:		24
Municipalities		7
Province Administration		2
Other (A.ATO)		5
Regional Authorities		6
National Authorities		1
Research Institutes/University		3
Consumers Associations		1
Trade Unions		1
Utilities Associations		1

DRINKADRIA (WP3), A.ATO 3 (FB2) Contribution
Capitalization and sustainability - Summary report



IL SERVIZIO IDRICO NELL'ATO 3 MACERATA:
"Quali prospettive per gli utenti"
VENERDI' 23 GENNAIO 2015 - ORE 09.00

Nuova sede ACQUAMBIENTE MARCHE (Sala riunioni)
 Via Recanatese, 27/I - CASTELFIDARDO

Gradita conferma
 mail: info@aato3marche.it
 Tel. 0733/235.644

<p>09.00 Registrazione partecipanti e consegna box cofanetto</p> <p>Saluti:</p> <p>09.30 Mirco Soprani - Sindaco di Castelfidardo Alessandro Maccioni - Presidente Acquambiente Marche</p> <p>Interventi:</p> <p>10.00 Presentazione cofanetto "AATO 3 Macerata: passato presente e futuro" e "10 anni di comunicazione" Antonio Secchiari - Presidente AATO 3 Macerata Gli affidamenti nell'ATO 3 a seguito del Decreto Sblocca Italia (D.Lgs. 133/2014) Massimo Principi - Direttore AATO 3 MACERATA Le tariffe idriche nell'ATO 3 Macerata per il primo quadro regolatorio AEEGSI (2012-2015) Fulvio Riccio - Responsabile Area Tariffaria ATO 3 Macerata Amministrazione trasparente nell'AATO 3 Macerata Massimiliano Grifi - Servizio Affari Generali AATO 3 Macerata Progetto DRINKADRIA: obiettivi generali e primi risultati Daniele Nardi - Responsabile Servizio Tecnico AATO 3 Marche</p> <p>12.00 Dibattito Moderatore Massimo Principi</p> <p>12.30 Aperitivo buffet</p>	
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WORKSHOP (January 2015)

Workshop: Il Progetto DRINKADRIA Obiettivi generali e primi risultati

WP3 – Capitalizzazione e sostenibilità:

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UE Leonardo da Vinci Projects – Lifelong Learning Programme

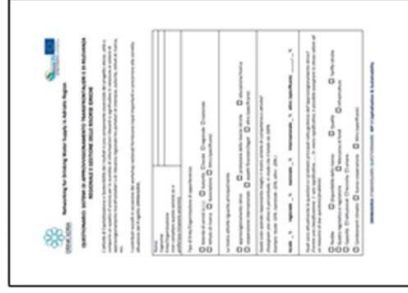
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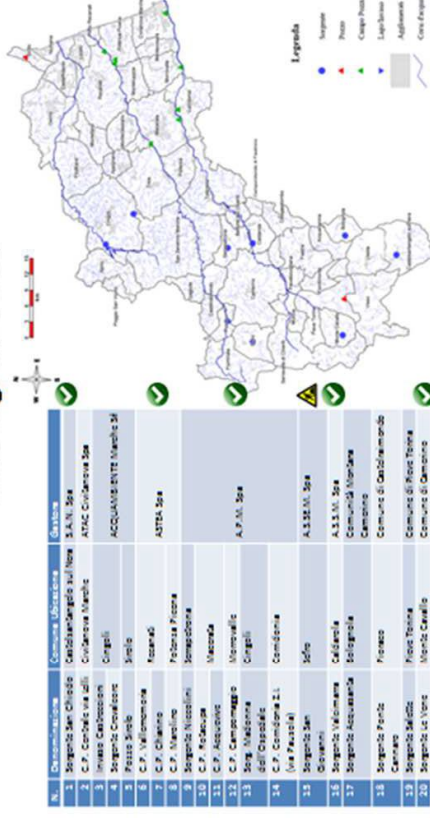
Workshop: Il Progetto DRINKADRIA
Obiettivi generali e primi risultati
Castelfidardo (AN), 23 gennaio 2015



3. Il Ruolo dell'A.ATO 3



4. Il Progetto Pilota



Workshop: Il Progetto DRINKADRIA
Obiettivi generali e primi risultati
Castelfidardo (AN), 23 gennaio 2015



The project is co-funded by the European Union
under the LIFE Programme



DRINKADRIA (WP2), A.ATO 3 (FB2) Contribution
Actions implemented and to be
implemented in the next reporting period



DRINKADRIA (WP2), A.ATO 3 (FB2) Contribution
Actions implemented and to be
implemented in the next reporting period



WORKSHOP (January 2015)



DRINKADRIA (WP3), A.ATO 3 (FB2) Contribution
Capitalization and sustainability - Summary report




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DRINKADRIA
Networking for Drinking Water Supply in Adriatic Region



Aspirato FPA
Aspirato FPA

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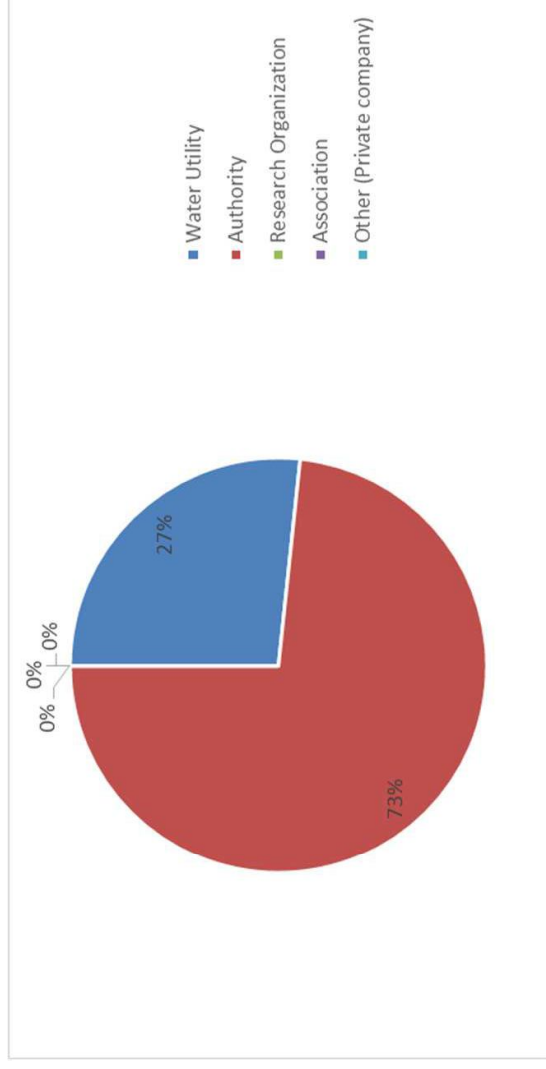
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Cognome:	
Ente/Organizzazione: (Indicare l'ente/organizzazione se si preferisce rimanere anonimi)	
Tipo di Ente/Organizzazione di appartenenza:	
<input type="checkbox"/> Azienda di servizi (s.l.l.) <input type="checkbox"/> Autonoma <input type="checkbox"/> Locale <input type="checkbox"/> Regionale <input type="checkbox"/> Nazionale <input type="checkbox"/> Istituto di ricerca <input type="checkbox"/> Associazione <input type="checkbox"/> Altro (specificare):	
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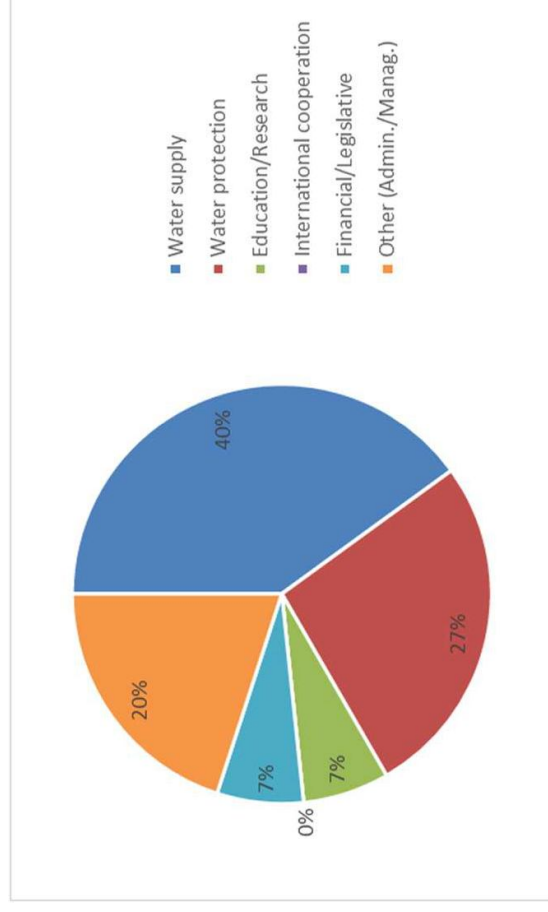
DRINKADRIA STAKEHOLDERS QUESTIONNAIRE - WP 3 Capitalization & Sustainability

SUMMARY

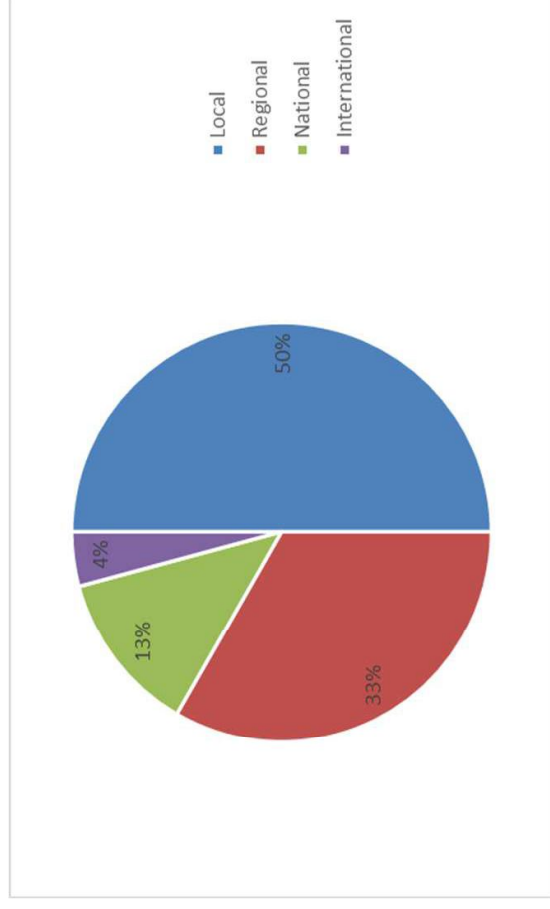
Question 1 – Type of Institution



Question 2 – Main scope of the work



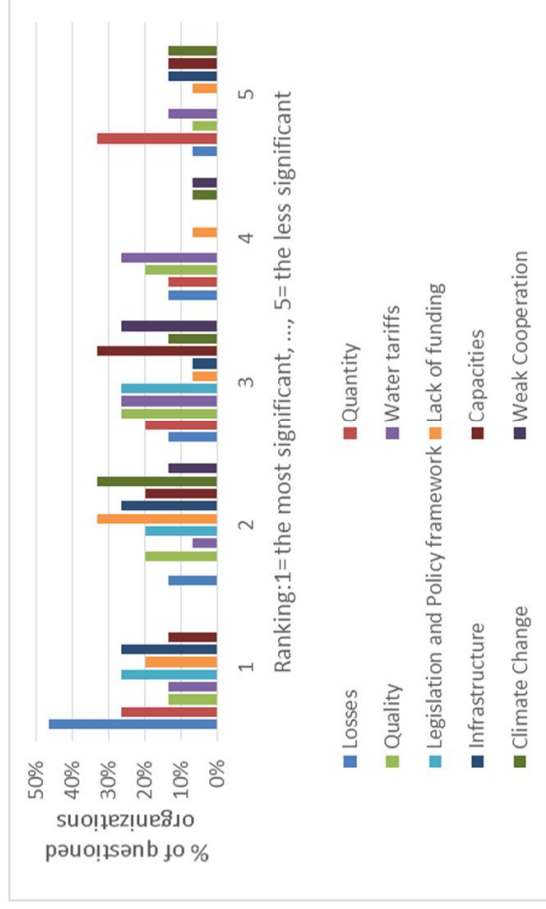
Question 3 – Spatial scale



DRINKADRIA (WP3), A.ATO 3 (FB2) Contribution
Capitalization and sustainability - Summary report

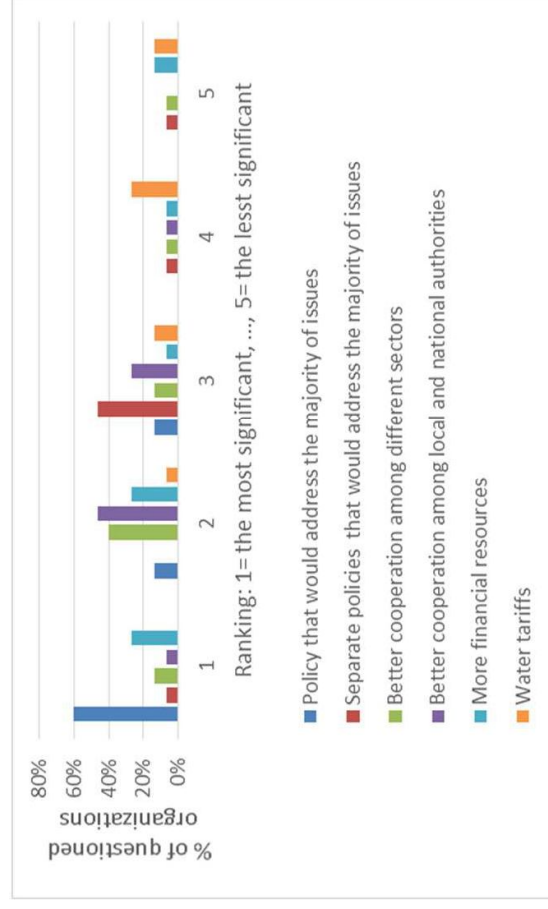
SUMMARY

Question 4 – WS management main issues/problems



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Question 6 – Some cutting issues can be solved by:

DRINKADRIA (WP3), A.ATO 3 (FB2) Contribution
Capitalization and sustainability - Summary report

SUMMARY

Question 7 – The 3 most significant actors/actions for improved WS and WR management:

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SUMMARY

Question 9 – Only State activities for improved WS?

20% YES
40% NO: regional and local institutional levels also significant
20% no answer

Question 11 – The most important topics to become more familiar with:

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40% not sufficient
13% no answer

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- ☐ Agreement schemes
- ☐ Responsibilities attribution among contractors
- ☐ Water safety issues
- ☐ Monitoring activities
- ☐ DWPPAs measures



DRINKADRIA (WP3), A.ATO 3 (FB2) Contribution
Corfu, september 24, 2015

Let's grow up together



The project is co-funded by the European Union,
Instrument for Pre-Accession Assistance

SUMMARY REPORT OF QUESTIONNAIRES FOR WORKING PACKAGE NR.3

A local workshop was organized by A.ATO 3 “Marche Centro – Macerata”, FB n. 2 in DRINKADRIA Project, concerning Water Service Management issues and perspectives at local and national level, as a consequence of the renewed sectorial legislation. Within the workshop, held in Castelfidardo (AN) 23/01/2015, a specific session was dedicated to the dissemination of DRINKADRIA general main objectives and first results.

The shared questionnaire developed within WP3 activities was distributed to all present stakeholders, representing:

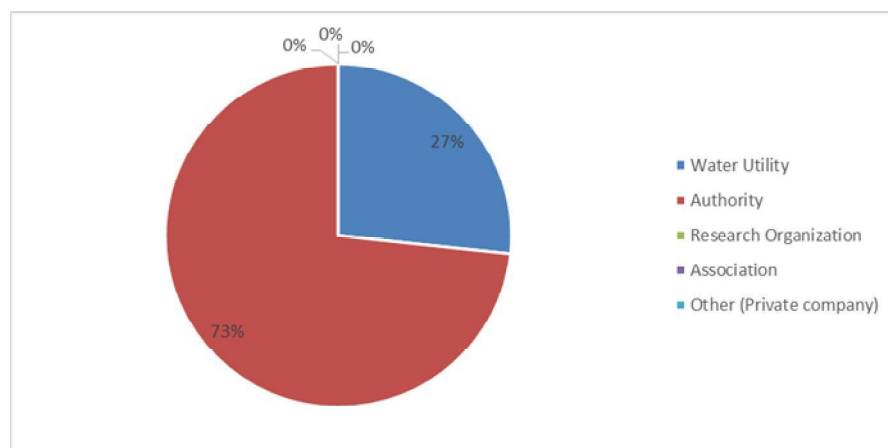
- Utilities
- Local Authorities (Municipalities, Province Administrations, other A.ATO)
- Regional Authorities
- National Authorities (National Association of A.ATO)
- Research Institutes (University)
- Consumers Associations
- Trade Unions
- Utilities Associations.

Out of no. 51 participants, all invited to contribute in the survey, only 15 (about 30%) returned the questionnaire filled in.

In order to contribute providing a representative general opinion regarding the major issues concerning Cross Border/Regional Water Resources management and Water Supply Systems, the obtained answers to the 11 more significant questions have been analysed, as follows.

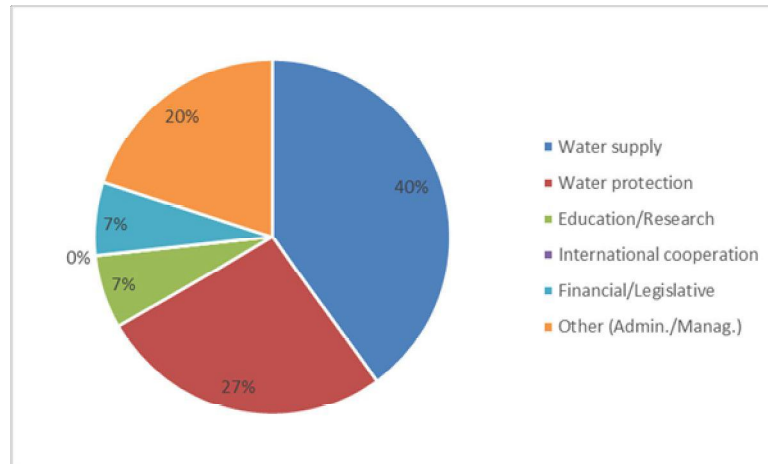
Question 1: “Your Institution/ Organization mission /main scope of the work: ...”

73% of the questioned organizations are Authorities (including Municipalities, Province, regional level Public Bodies, other A.ATO), while the remaining 27% are Utilities.



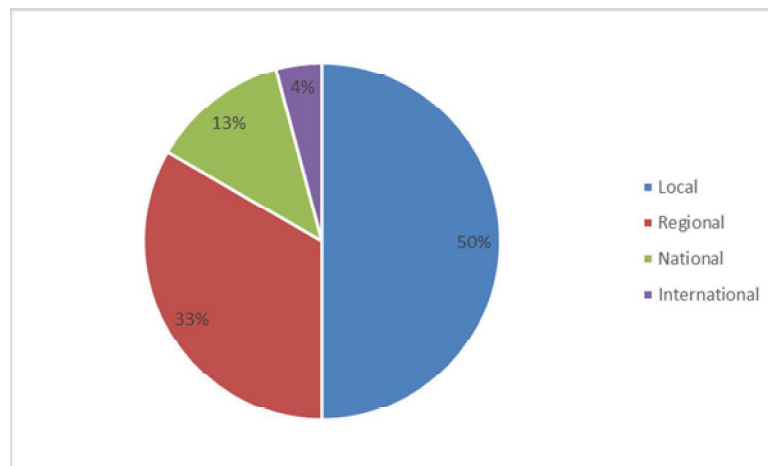
Question 2: “Your activities are mainly focused on: ...”

Water supply is the main scope of the work for 40% of the questioned institutions, 27% of them have water protection as their main activity, 7% are mostly focused on financial and legislative issues, same percentage for education and research, while the remaining 20% are involved in administrative and/or managerial activities.



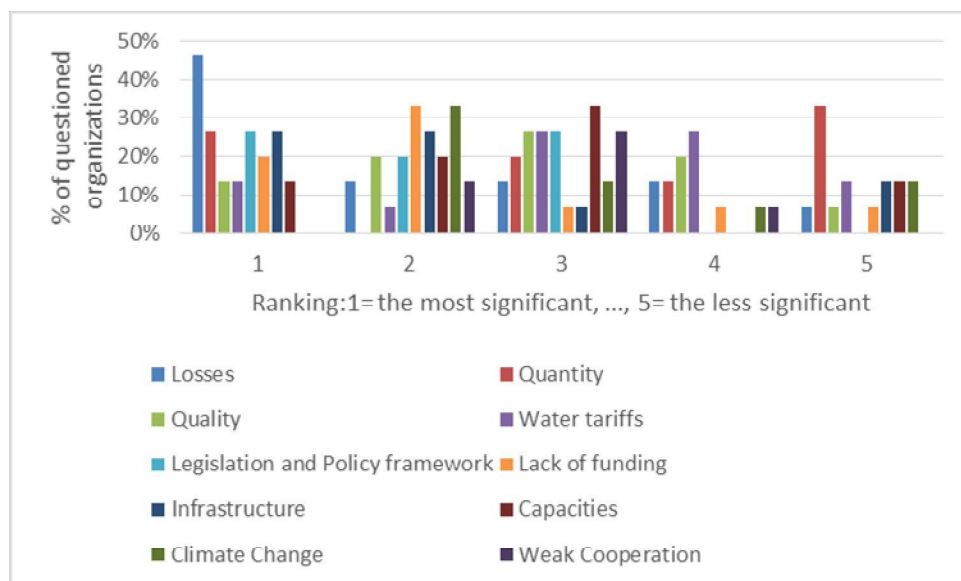
Question 3: “What spatial scale reflects the best your activities and tasks?”

Most of the questioned organizations, about 50%, operates at local level, 33% at regional level; just a smaller part of the participants also has tasks and activities at national (13%) or even international level (3%).



Question 4: “What are the main water supply management issues/ problems at the present?”

The graph below shows how the questioned organizations have ranked some of the most important issues in the water sector: water losses are the most significant problem for 47% of them, followed by quantity, legislation and policy framework, infrastructure (27%). What is important to notice is that for 33% of the surveyed participants water availability (quantity) is the less significant of the proposed issues.



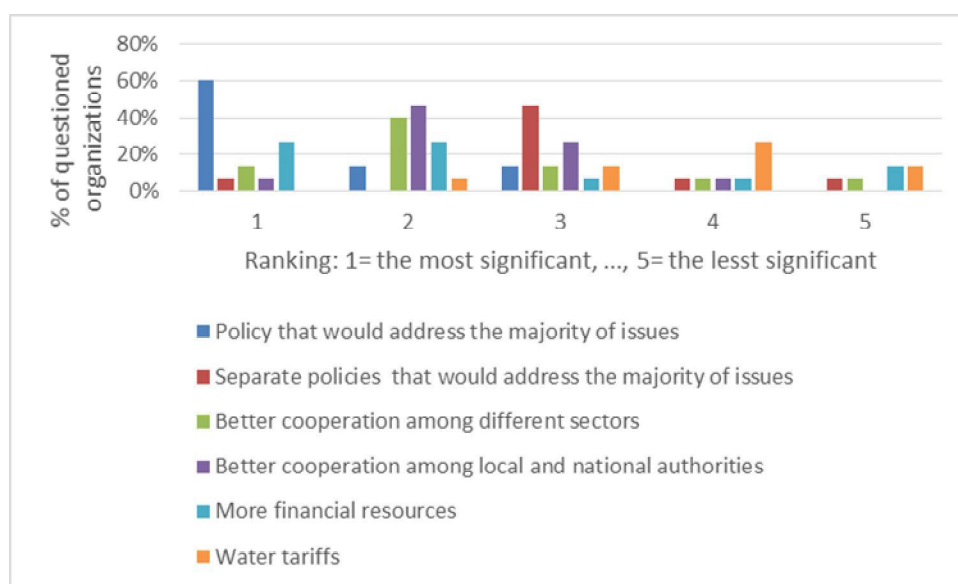
Question 5: “What are the most important steps and activities that would improve water supply in terms of aforementioned issues and constrains?”

Summarizing the answers given by the questioned organizations, the most important steps and activities that would improve the water supply are:

- Assets maintenance/ renewal
- Fundraising for the huge investment needed to renew assets
- WSSs interconnection
- A single operator (Utility) in each Optimal Territorial Area
- Research for new water resources
- Increased human resources professionalism (qualified personnel)
- More efficient water services management

Question 6: “Do you think that some cross-cutting issues can be solved by: ...”

The graph below shows how the questioned organizations have ranked the proposed suggestions, aiming at the solution of some cross-cutting issues: Policy that would address the majority of issues is the best way for 60% of them, followed by More financial resources more financial recourses (27%) and Better cooperation among different sectors (13%). Water tariffs seem not to be considered a so important element.



Question 7: “Please list the 3 most significant actors/ actions for improved water supply and water resources management: ...”

According to the given answers, the 3 most significant steps and activities that would improve the water supply can be summarized as follows:

1. New, more clear legislation framework, aiming at improving Utilities’ effectiveness and operational timesaving
2. Improving WSSs assets condition, thanks to proper investment planning by the Local/regional Authorities and pricing mechanisms suitable to widen funding possibilities
3. Ensuring good quality water availability, by saving resource reducing losses and implementing DWPA measures

Limiting political pressure on Water Utilities is also considered an important factor.

Question 8: “What are the actions that your institution/ organization might take to improve water supply and water resources management and contribute to its sustainability?”

According to the given answers, the actions that questioned organizations consider fundamental with the aim of improving water supply and water resources management are:

- To promote merging of small utilities to create bigger companies with stronger economic and financial capacities, so to have one single operator in water services for each Optimal Territorial Area, with more resources for investment
- To ensure a better coordination between different level authorities
- To provide proper planning of WSS development and interconnections, so assuring more efficient management and saving costs, which also means raising funds for investments

Question 9: “Do you think that only state activities contribute to improved water supply?”

20% of the surveyed organizations think that only state activities can contribute to improved water supply, 40% of them, on the opposite, also consider regional and local institutional levels significant. Remaning 20% of the surveyed organizations gave no answer.

Question 10: “Your familiarity with issues/ constraints regarding cross- border / regional water resources is: ...”

None of the surveyed organizations declares to have a comprehensive knowledge of the matter, 47% of them has a moderate familiarity with some legislative frameworks that are significant for cross-border/ regional water supply systems, 40% think their knowledge is not sufficient.

Question 11: “What are the most important topics that you would like to become more familiar regarding to cross- border /regional water supply systems and water resources management?”

Listed topics concerning cross-border/regional water supply systems that questioned organizations would like to become more familiar with are:

- Pricing approaches and models applied/to be applied
- Agreement schemes
- Responsibilities attribution among contractors
- Water safety issues
- Monitoring activities
- DWPAs measures

QUESTIONARIO: SISTEMI DI APPROVVIGIONAMENTO TRANSFRONTALIERI E DI RILEVANZA REGIONALE E GESTIONE DELLE RISORSE IDRICHE

L'attività di Capitalizzazione e Sostenibilità dei risultati è una componente essenziale del progetto stesso, utile a comporre un quadro d'unione per lo scambio di informazioni rilevanti e significative in relazione ai sistemi di approvvigionamento transfrontalieri o di rilevanza regionale tra portatori di interesse, autorità, istituti di ricerca, ecc.

I contributi raccolti in occasione dei workshop nazionali forniscono input importanti e concorrono alla corretta attuazione del Progetto DRINKADRIA.

Nome:	GIORGETTI
Cognome:	CIADA
Ente/Organizzazione: (non compilare questa sezione se si preferisce rimanere anonimi)	COMUNE DI MONTECUPONE ASS. AMBIENTE
Tipo di Ente/Organizzazione di appartenenza: <input type="checkbox"/> Azienda di servizi (s.i.i.) <input checked="" type="checkbox"/> Autorità: <input checked="" type="checkbox"/> locale <input type="checkbox"/> regionale <input type="checkbox"/> nazionale <input type="checkbox"/> Istituto di ricerca <input type="checkbox"/> Associazione <input type="checkbox"/> Altro (specificare):	
La Vostra attività riguarda principalmente: <input checked="" type="checkbox"/> approvvigionamento idrico <input type="checkbox"/> protezione delle risorse idriche <input type="checkbox"/> educazione/ricerca <input type="checkbox"/> cooperazione internazionale <input type="checkbox"/> aspetti finanziari/legali <input type="checkbox"/> altro (specificare):	
Quale scala spaziale rappresenta meglio il Vostro ambito di competenza e attività? (Assegnare una stima in percentuale, in modo che il totale sia 100% Esempio: locale -55%, nazionale -25%, altro -20%) locale ¹⁰⁰ % regionale % nazionale % internazionale % altro (specificare): %, %	
Quali sono attualmente le questioni e i problemi principali nella gestione dell'approvvigionamento idrico? (Fornire una classificazione: 1 = più significativo, 5 = meno significativo; è possibile assegnare lo stesso valore ad un massimo di due questioni/problemi) <input checked="" type="checkbox"/> Perdite <input type="checkbox"/> Disponibilità della risorsa <input type="checkbox"/> Qualità <input type="checkbox"/> Tariffe idriche <input type="checkbox"/> Quadro legislativo e regolatorio <input type="checkbox"/> Mancanza di fondi <input type="checkbox"/> Infrastrutture <input type="checkbox"/> Capacità: <input type="checkbox"/> istituzionali <input checked="" type="checkbox"/> tecniche <input type="checkbox"/> umane <input type="checkbox"/> Cambiamenti climatici <input checked="" type="checkbox"/> Scarsa cooperazione <input type="checkbox"/> Altro (specificare):	

Fornire una classificazione dei seguenti argomenti, in relazione alle questioni/problemi di cui sopra:
(Fornire una classificazione: 1 =più significativo, 5= meno significativo; è possibile assegnare lo stesso valore ad un massimo di due voci)

- PERDITE**
- ☐ consumi non autorizzati ☒ errori di misura ☐ perdite nelle reti di distribuzione
☒ perdite dagli impianti ☐ altro (specificare): _____

- DISPONIBILITA' DELLA RISORSA**
- ☐ incremento della domanda ☐ fluttuazioni stagionali ☐ capacità di stoccaggio
☐ cambiamenti nelle pratiche di uso del suolo ☒ elevati consumi relativi ad altri settori (agricoli, industriali, ecc.)
☐ cambiamenti climatici ☐ altro (specificare): _____

- QUALITA'**
- ☐ inquinamento da fonti puntuali ☐ inquinamento da fonti diffuse ☐ protezione delle fonti
☐ cambiamenti nelle pratiche di uso del suolo ☐ fluttuazioni stagionali ☐ cambiamenti climatici
☐ altro (specificare): _____

VINCOLI DEL SISTEMA DI DISTRIBUZIONE IDRICA

- ☐ rete inadeguata ☐ capacità delle stazioni di pompaggio ☐ carenze dei serbatoi
☐ scarsa manutenzione del sistema di distribuzione idrica ☐ vetustà delle infrastrutture
☐ altro (specificare): _____

Quali sono i principali vincoli che condizioneranno la gestione dell'approvvigionamento idrico nel prossimo futuro (nei prossimi 25-30 anni)?
(Fornire una classificazione: 1 =più significativo, 5= meno significativo; è possibile assegnare lo stesso valore ad un massimo di due voci)

- ☐ Perdite ☐ Disponibilità della risorsa ☐ Qualità ☐ Tariffe idriche
☐ Quadro legislativo e regolatorio ☒ Mancanza di fondi ☐ Infrastrutture
☐ Capacità: ☐ istituzionali ☐ tecniche ☐ umane
☐ Cambiamenti climatici ☐ Scarsa cooperazione ☐ Altro (specificare): _____

Quali sono i passi più importanti e le attività che potrebbero migliorare l'approvvigionamento idrico in termini di questioni e vincoli di cui sopra?

Alcune questioni trasversali potrebbero essere risolte attraverso:

(Fornire una classificazione: 1 =più significativo, 5= meno significativo; è possibile assegnare lo stesso valore ad un massimo di due voci)

6	<input type="checkbox"/> Politiche integrate, che affrontino la maggior parte delle questioni <input type="checkbox"/> Politiche separate, rivolte singolarmente alla maggior parte delle questioni <input type="checkbox"/> Una migliore cooperazione tra i diversi settori <input type="checkbox"/> Una migliore cooperazione tra autorità locali e nazionali <input type="checkbox"/> Maggiori risorse finanziarie <input type="checkbox"/> Le tariffe idriche <input type="checkbox"/> Altro (specificare):
7	Elencare i 3 attori ovvero le 3 azioni più significative nell'ottica del miglioramento della gestione dell'approvvigionamento e delle risorse idriche:
8	Quali sono le azioni che il tuo Ente/Organizzazione di appartenenza potrebbe adottare per migliorare la gestione dell'approvvigionamento e delle risorse idriche e contribuire alla sua sostenibilità?
9	Ritieni che solo azioni a livello statale possano contribuire a migliorare l'approvvigionamento idrico? <input type="checkbox"/> SI <input type="checkbox"/> NO Se la risposta è NO, elencare altri livelli istituzionali di rilievo:
	Il tuo grado di conoscenza/familiarità con il ruolo e le attività delle Commissioni Bilaterali di rilevanza sul tema della gestione dell'approvvigionamento e delle risorse idriche con carattere transfrontaliero/regionale può essere definito: <input type="checkbox"/> Completo <input type="checkbox"/> Discreto <input type="checkbox"/> Insufficiente
	Il tuo grado di conoscenza/familiarità con il ruolo e le attività delle Autorità locali di rilevanza sul tema dell'approvvigionamento idrico con carattere transfrontaliero/regionale può essere definito: <input type="checkbox"/> Completo <input type="checkbox"/> Discreto <input type="checkbox"/> Insufficiente
	Esistono, nel tuo paese/regione, norme quadro (trattati, accordi, protocolli di intesa, ecc.) significativi in relazione alla gestione di sistemi di approvvigionamento e risorse con carattere transfrontaliero/regionale di cui sei a conoscenza: <input type="checkbox"/> SI <input type="checkbox"/> NO Se la risposta è SI, riportarne gli estremi:

10 Il tuo grado di familiarità con vincoli e questioni inerenti le risorse idriche con carattere transfrontaliero/regionale può essere definito:

☐ Completo ☐ Discreto ☐ Insufficiente

Fornire ulteriori, eventuali, commenti:

L'implementazione dei Piani di Gestione dei Distretti idrografici, a livello nazionale, è un'attività:

☐ conclusa ☐ in corso ☐ da attivare

Fornire ulteriori, eventuali, commenti:

L'implementazione dei Piani di Gestione dei Distretti idrografici (riguardante i bacini idrografici transfrontalieri) è un'attività:

☐ conclusa ☐ in corso ☐ da attivare

Fornire ulteriori, eventuali, commenti:

11 Quali sono gli argomenti più importanti che desidereresti approfondire, in merito alla gestione dei sistemi di approvvigionamento e delle risorse idriche con carattere transfrontaliero/regionale?

Consideri utile questo tipo di eventi (workshop/tavole rotonde)?

☐ SI ☐ NO ☐ Indifferente

Ulteriori commenti:

QUESTIONARIO: SISTEMI DI APPROVVIGIONAMENTO TRANSFRONTALIERI E DI RILEVANZA REGIONALE E GESTIONE DELLE RISORSE IDRICHE

L'attività di Capitalizzazione e Sostenibilità dei risultati è una componente essenziale del progetto stesso, utile a comporre un quadro d'unione per lo scambio di informazioni rilevanti e significative in relazione ai sistemi di approvvigionamento transfrontalieri o di rilevanza regionale tra portatori di interesse, autorità, istituti di ricerca, ecc.

I contributi raccolti in occasione dei workshop nazionali forniscono input importanti e concorrono alla corretta attuazione del Progetto DRINKADRIA.

Nome:	
Cognome:	
Ente/Organizzazione:	
(non compilare questa sezione se si preferisce rimanere anonimi)	
Tipo di Ente/Organizzazione di appartenenza:	
<input type="checkbox"/> Azienda di servizi (s.i.i.) <input type="checkbox"/> Autorità: <input checked="" type="checkbox"/> locale <input type="checkbox"/> regionale <input type="checkbox"/> nazionale <input type="checkbox"/> Istituto di ricerca <input type="checkbox"/> Associazione <input type="checkbox"/> Altro (specificare):	
La Vostra attività riguarda principalmente:	
<input type="checkbox"/> approvvigionamento idrico <input type="checkbox"/> protezione delle risorse idriche <input type="checkbox"/> educazione/ricerca <input type="checkbox"/> cooperazione internazionale <input type="checkbox"/> aspetti finanziari/legali <input type="checkbox"/> altro (specificare): <i>aspetti amministrativi e gestionali</i>	
Quale scala spaziale rappresenta meglio il Vostro ambito di competenza e attività? (Assegnare una stima in percentuale, in modo che il totale sia 100%) Esempio: locale -55%. nazionale -25%, altro - 20%)	
locale <u>50</u> % regionale <u>50</u> % nazionale <u> </u> % internazionale <u> </u> % altro (specificare): <u> </u> , <u> </u> %	
Quali sono attualmente le questioni e i problemi principali nella gestione dell'approvvigionamento idrico? (Fornire una classificazione: 1 = più significativo, 5 = meno significativo; è possibile assegnare lo stesso valore ad un massimo di due questioni/problemi)	
<input checked="" type="checkbox"/> Perdite <input checked="" type="checkbox"/> Disponibilità della risorsa <input checked="" type="checkbox"/> Qualità <input checked="" type="checkbox"/> Tariffe idriche <input checked="" type="checkbox"/> Quadro legislativo e regolatorio <input checked="" type="checkbox"/> Mancanza di fondi <input checked="" type="checkbox"/> Infrastrutture <input checked="" type="checkbox"/> Capacità: <input checked="" type="checkbox"/> istituzionali <input checked="" type="checkbox"/> tecniche <input checked="" type="checkbox"/> umane <input checked="" type="checkbox"/> Cambiamenti climatici <input checked="" type="checkbox"/> Scarsa cooperazione <input type="checkbox"/> Altro (specificare):	

Fornire una classificazione dei seguenti argomenti, in relazione alle questioni/problemi di cui sopra:
(Fornire una classificazione: 1 =più significativo, 5= meno significativo; è possibile assegnare lo stesso valore ad un massimo di due voci)

PERDITE

- ☒ consumi non autorizzati ☒ errori di misura ☒ perdite nelle reti di distribuzione
☒ perdite dagli impianti ☐ altro (specificare): _____

DISPONIBILITA' DELLA RISORSA

- ☒ incremento della domanda ☒ fluttuazioni stagionali ☒ capacità di stoccaggio
☒ cambiamenti nelle pratiche di uso del suolo ☒ elevati consumi relativi ad altri settori (agricoli, industriali, ecc.)
☒ cambiamenti climatici ☐ altro (specificare): _____

QUALITA'

- ☒ inquinamento da fonti puntuali ☒ inquinamento da fonti diffuse ☒ protezione delle fonti
☒ cambiamenti nelle pratiche di uso del suolo ☒ fluttuazioni stagionali ☒ cambiamenti climatici
☐ altro (specificare): _____

VINCOLI DEL SISTEMA DI DISTRIBUZIONE IDRICA

- ☒ rete inadeguata ☒ capacità delle stazioni di pompaggio ☒ carenze dei serbatoi
☒ scarsa manutenzione del sistema di distribuzione idrica ☒ vetustà delle infrastrutture
☐ altro (specificare): _____

Quali sono i principali vincoli che condizioneranno la gestione dell'approvvigionamento idrico nel prossimo futuro (nei prossimi 25-30 anni)?
(Fornire una classificazione: 1 =più significativo, 5= meno significativo; è possibile assegnare lo stesso valore ad un massimo di due voci)

- ☒ Perdite ☒ Disponibilità della risorsa ☒ Qualità ☒ Tariffe idriche
☒ Quadro legislativo e regolatorio ☒ Mancanza di fondi ☒ Infrastrutture
☒ Capacità: ☒ istituzionali ☒ tecniche ☒ umane
☒ Cambiamenti climatici ☒ Scarsa cooperazione ☐ Altro (specificare): _____

Quali sono i passi più importanti e le attività che potrebbero migliorare l'approvvigionamento idrico in termini di questioni e vincoli di cui sopra?

Alcune questioni trasversali potrebbero essere risolte attraverso:

(Fornire una classificazione: 1 =più significativo, 5= meno significativo; è possibile assegnare lo stesso valore ad un massimo di due voci)

6	<input checked="" type="checkbox"/> Politiche integrate, che affrontino la maggior parte delle questioni <input checked="" type="checkbox"/> Politiche separate, rivolte singolarmente alla maggior parte delle questioni <input checked="" type="checkbox"/> Una migliore cooperazione tra i diversi settori <input checked="" type="checkbox"/> Una migliore cooperazione tra autorità locali e nazionali <input checked="" type="checkbox"/> Maggiori risorse finanziarie <input checked="" type="checkbox"/> Le tariffe idriche <input type="checkbox"/> Altro (specificare):
7	Elencare i 3 attori ovvero le 3 azioni più significative nell'ottica del miglioramento della gestione dell'approvvigionamento e delle risorse idriche:
8	Quali sono le azioni che il tuo Ente/Organizzazione di appartenenza potrebbe adottare per migliorare la gestione dell'approvvigionamento e delle risorse idriche e contribuire alla sua sostenibilità? <i>Accordo/Finore Gestor S.l.l.</i>
9	Ritieni che solo azioni a livello statale possano contribuire a migliorare l'approvvigionamento idrico? <input type="checkbox"/> SI <input checked="" type="checkbox"/> NO Se la risposta è NO, elencare altri livelli istituzionali di rilievo: <i>REGIONE e Enti Locali</i>
	Il tuo grado di conoscenza/familiarità con il ruolo e le attività delle Commissioni Bilaterali di rilevanza sul tema della gestione dell'approvvigionamento e delle risorse idriche con carattere transfrontaliero/regionale può essere definito: <input type="checkbox"/> Completo <input checked="" type="checkbox"/> Discreto <input type="checkbox"/> Insufficiente
	Il tuo grado di conoscenza/familiarità con il ruolo e le attività delle Autorità locali di rilevanza sul tema dell'approvvigionamento idrico con carattere transfrontaliero/regionale può essere definito: <input type="checkbox"/> Completo <input checked="" type="checkbox"/> Discreto <input type="checkbox"/> Insufficiente
	Esistono, nel tuo paese/regione, norme quadro (trattati, accordi, protocolli di intesa, ecc.) significativi in relazione alla gestione di sistemi di approvvigionamento e risorse con carattere transfrontaliero/regionale di cui sei a conoscenza: <input type="checkbox"/> SI <input checked="" type="checkbox"/> NO Se la risposta è SI, riportarne gli estremi:

10 Il tuo grado di familiarità con vincoli e questioni inerenti le risorse idriche con carattere transfrontaliero/regionale può essere definito:

☐ Completo ☒ Discreto ☐ Insufficiente

Fornire ulteriori, eventuali, commenti:

L'implementazione dei Piani di Gestione dei Distretti idrografici, a livello nazionale, è un'attività:

☐ conclusa ☐ in corso ☒ da attivare

Fornire ulteriori, eventuali, commenti:

L'implementazione dei Piani di Gestione dei Distretti idrografici (riguardante i bacini idrografici transfrontalieri) è un'attività:

☐ conclusa ☐ in corso ☒ da attivare

Fornire ulteriori, eventuali, commenti:

11 Quali sono gli argomenti più importanti che desidereresti approfondire, in merito alla gestione dei sistemi di approvvigionamento e delle risorse idriche con carattere transfrontaliero/regionale?

Consideri utile questo tipo di eventi (workshop/tavole rotonde)?

☒ SI ☐ NO ☐ Indifferente

Ulteriori commenti:



Networking for Drinking Water Supply in Adriatic Region



QUESTIONARIO: SISTEMI DI APPROVVIGIONAMENTO TRANSFRONTALIERI E DI RILEVANZA REGIONALE E GESTIONE DELLE RISORSE IDRICHE

L'attività di Capitalizzazione e Sostenibilità dei risultati è una componente essenziale del progetto stesso, utile a comporre un quadro d'unione per lo scambio di informazioni rilevanti e significative in relazione ai sistemi di approvvigionamento transfrontalieri o di rilevanza regionale tra portatori di interesse, autorità, istituti di ricerca, ecc.

I contributi raccolti in occasione dei workshop nazionali forniscono input importanti e concorrono alla corretta attuazione del Progetto DRINKADRIA.

Nome:	
Cognome:	
Ente/Organizzazione:	
(non compilare questa sezione se si preferisce rimanere anonimi)	

Tipo di Ente/Organizzazione di appartenenza:

☐ Azienda di servizi (s.r.l.) ☒ Autorità: ☐ locale ☐ regionale ☐ nazionale
☐ Istituto di ricerca ☐ Associazione ☐ Altro (specificare):

La Vostra attività riguarda principalmente:

☐ approvvigionamento idrico ☐ protezione delle risorse idriche ☒ educazione/ricerca
☐ cooperazione internazionale ☐ aspetti finanziari/legali ☐ altro (specificare):

Quale scala spaziale rappresenta meglio il Vostro ambito di competenza e attività?
(Assegnare una stima in percentuale, in modo che il totale sia 100%)
Esempio: locale -55%. nazionale -25%, altro - 20%)

locale 60% regionale 40% nazionale 0% internazionale 0% altro (specificare): _____, _____%

Quali sono attualmente le questioni e i problemi principali nella gestione dell'approvvigionamento idrico?
(Fornire una classificazione: 1 = più significativo, 5 = meno significativo; è possibile assegnare lo stesso valore ad un massimo di due questioni/problemi)

☒ Perdite ☒ Disponibilità della risorsa ☒ Qualità ☒ Tariffe idriche
☒ Quadro legislativo e regolatorio ☒ Mancanza di fondi ☒ Infrastrutture
☐ Capacità: ☐ istituzionali ☐ tecniche ☐ umane
☒ Cambiamenti climatici ☐ Scarsa cooperazione ☐ Altro (specificare):

Fornire una classificazione dei seguenti argomenti, in relazione alle questioni/problemi di cui sopra:
(Fornire una classificazione: 1 =più significativo, 5= meno significativo; è possibile assegnare lo stesso valore ad un massimo di due voci)

PERDITE

- 4 ☐ consumi non autorizzati 3 ☐ errori di misura ☐ perdite nelle reti di distribuzione
1 ☐ perdite dagli impianti ☐ altro (specificare): 2

DISPONIBILITA' DELLA RISORSA

- 5 ☐ incremento della domanda 4 ☐ fluttuazioni stagionali 1 ☐ capacità di stoccaggio
3 ☐ cambiamenti nelle pratiche di uso del suolo ☐ elevati consumi relativi ad altri settori (agricoli, industriali, ecc.)
2 ☐ cambiamenti climatici ☐ altro (specificare): 4

QUALITA'

- 3 ☐ inquinamento da fonti puntuali 1 ☐ inquinamento da fonti diffuse 4 ☐ protezione delle fonti
5 ☐ cambiamenti nelle pratiche di uso del suolo ☐ fluttuazioni stagionali 2 ☐ cambiamenti climatici
1 ☐ altro (specificare): _____

VINCOLI DEL SISTEMA DI DISTRIBUZIONE IDRICA

- 2 ☐ rete inadeguata 5 ☐ capacità delle stazioni di pompaggio 4 ☐ carenze dei serbatoi
1 ☐ scarsa manutenzione del sistema di distribuzione idrica 3 ☐ vetustà delle infrastrutture
1 ☐ altro (specificare): _____

Quali sono i principali vincoli che condizioneranno la gestione dell'approvvigionamento idrico nel prossimo futuro (nei prossimi 25-30 anni)?

(Fornire una classificazione: 1 =più significativo, 5= meno significativo; è possibile assegnare lo stesso valore ad un massimo di due voci)

- 3 ☐ Perdite 5 ☐ Disponibilità della risorsa 4 ☐ Qualità 5 ☐ Tariffe idriche
1 ☐ Quadro legislativo e regolatorio 2 ☐ Mancanza di fondi 1 ☐ Infrastrutture
4 ☐ Capacità: ☐ istituzionali ☐ tecniche ☐ umane
2 ☐ Cambiamenti climatici 3 ☐ Scarsa cooperazione ☐ Altro (specificare): _____

Quali sono i passi più importanti e le attività che potrebbero migliorare l'approvvigionamento idrico in termini di questioni e vincoli di cui sopra?

MIGLIORARE E RINNOVARE GLI ASSETTI
REPERIRE FONDI PER LA REALIZZAZIONE DI INVESTIMENTI

Alcune questioni trasversali potrebbero essere risolte attraverso:

(Fornire una classificazione: 1 =più significativo, 5= meno significativo; è possibile assegnare lo stesso valore ad un massimo di due voci)

2	<input type="checkbox"/> Politiche integrate, che affrontino la maggior parte delle questioni
3	<input type="checkbox"/> Politiche separate, rivolte singolarmente alla maggior parte delle questioni
1	<input type="checkbox"/> Una migliore cooperazione tra i diversi settori
4	<input type="checkbox"/> Una migliore cooperazione tra autorità locali e nazionali
1	<input type="checkbox"/> Maggiori risorse finanziarie
5	<input type="checkbox"/> Le tariffe idriche
	<input type="checkbox"/> Altro (specificare):
7	<p>Elencare i 3 attori ovvero le 3 azioni più significative nell'ottica del miglioramento della gestione dell'approvvigionamento e delle risorse idriche:</p> <p>- GESTORI DEL SII OTTIMIZZARE GLI ASSATI</p> <p>- AATO PREVEDERE UN PDI CHE GARANTISCA L'APPROVVIGIONAMENTO IDRICO OTTIMALE - AATO METABOLISMO TERRITORIALE CHE RENDE POSSIBILE IL PDI</p>
8	<p>Quali sono le azioni che il tuo Ente/Organizzazione di appartenenza potrebbe adottare per migliorare la gestione dell'approvvigionamento e delle risorse idriche e contribuire alla sua sostenibilità?</p> <p>Creare una sinergia tra gestori (e magari ancora componenti) al fine di avere la capacità finanziaria ed economica di realizzare investimenti</p>
9	<p>Ritieni che solo azioni a livello statale possano contribuire a migliorare l'approvvigionamento idrico?</p> <p><input type="checkbox"/> SI <input checked="" type="checkbox"/> NO</p> <p>Se la risposta è NO, elencare altri livelli istituzionali di rilievo: LOCALI (AATO)</p>
	<p>Il tuo grado di conoscenza/familiarità con il ruolo e le attività delle Commissioni Bilaterali di rilevanza sul tema della gestione dell'approvvigionamento e delle risorse idriche con carattere transfrontaliero/regionale può essere definito:</p> <p><input type="checkbox"/> Completo <input type="checkbox"/> Discreto <input checked="" type="checkbox"/> Insufficiente</p>
	<p>Il tuo grado di conoscenza/familiarità con il ruolo e le attività delle Autorità locali di rilevanza sul tema dell'approvvigionamento idrico con carattere transfrontaliero/regionale può essere definito:</p> <p><input type="checkbox"/> Completo <input checked="" type="checkbox"/> Discreto <input type="checkbox"/> Insufficiente</p>
	<p>Esistono, nel tuo paese/regione, norme quadro (trattati, accordi, protocolli di intesa, ecc.) significativi in relazione alla gestione di sistemi di approvvigionamento e risorse con carattere transfrontaliero/regionale di cui sei a conoscenza:</p> <p><input type="checkbox"/> SI <input type="checkbox"/> NO <input checked="" type="checkbox"/> NON LO SO</p> <p>Se la risposta è SI, riportarne gli estremi:</p>

10 Il tuo grado di familiarità con vincoli e questioni inerenti le risorse idriche con carattere transfrontaliero/regionale può essere definito:

☐ Completo ☐ Discreto ☒ Insufficiente

Fornire ulteriori, eventuali, commenti:

L'implementazione dei Piani di Gestione dei Distretti idrografici, a livello nazionale, è un'attività:

☐ conclusa ☒ in corso ☐ da attivare

Fornire ulteriori, eventuali, commenti:

L'implementazione dei Piani di Gestione dei Distretti idrografici (riguardante i bacini idrografici transfrontalieri) è un'attività:

☐ conclusa ☐ in corso ☒ da attivare

Fornire ulteriori, eventuali, commenti:

11 Quali sono gli argomenti più importanti che desidereresti approfondire, in merito alla gestione dei sistemi di approvvigionamento e delle risorse idriche con carattere transfrontaliero/regionale?

CAPIRE QUANTO SIA IL NECESSARIO TARIFFARIO PER LA VENDITA/ACQUISTO ACQUA

Consideri utile questo tipo di eventi (workshop/tavole rotonde)?

☒ SI ☐ NO ☐ Indifferente

Ulteriori commenti:

TRA COSTO
CON DIFFER
METODOLOGI
TARIFFARI



Networking for Drinking Water Supply in Adriatic Region



QUESTIONARIO: SISTEMI DI APPROVVIGIONAMENTO TRANSFRONTALIERI E DI RILEVANZA REGIONALE E GESTIONE DELLE RISORSE IDRICHE

L'attività di Capitalizzazione e Sostenibilità dei risultati è una componente essenziale del progetto stesso, utile a comporre un quadro d'unione per lo scambio di informazioni rilevanti e significative in relazione ai sistemi di approvvigionamento transfrontalieri o di rilevanza regionale tra portatori di interesse, autorità, istituti di ricerca, ecc.

I contributi raccolti in occasione dei workshop nazionali forniscono input importanti e concorrono alla corretta attuazione del Progetto DRINKADRIA.

Nome:	
Cognome:	
Ente/Organizzazione:	
(non compilare questa sezione se si preferisce rimanere anonimi)	
Tipo di Ente/Organizzazione di appartenenza: <input type="checkbox"/> Azienda di servizi (s.i.i.) <input checked="" type="checkbox"/> Autorità: <input checked="" type="checkbox"/> locale <input type="checkbox"/> regionale <input type="checkbox"/> nazionale <input type="checkbox"/> Istituto di ricerca <input type="checkbox"/> Associazione <input type="checkbox"/> Altro (specificare):	
La Vostra attività riguarda principalmente: <input checked="" type="checkbox"/> approvvigionamento idrico <input type="checkbox"/> protezione delle risorse idriche <input type="checkbox"/> educazione/ricerca <input type="checkbox"/> cooperazione internazionale <input type="checkbox"/> aspetti finanziari/legali <input type="checkbox"/> altro (specificare):	
Quale scala spaziale rappresenta meglio il Vostro ambito di competenza e attività? (Assegnare una stima in percentuale, in modo che il totale sia 100% Esempio: locale -55%. nazionale -25%, altro - 20%) locale <u>100</u> % regionale <u> </u> % nazionale <u> </u> % internazionale <u> </u> % altro (specificare): <u> </u> , <u> </u> %	
Quali sono attualmente le questioni e i problemi principali nella gestione dell'approvvigionamento idrico? (Fornire una classificazione: 1 = più significativo, 5 = meno significativo; è possibile assegnare lo stesso valore ad un massimo di due questioni/problemi) <input checked="" type="checkbox"/> Perdite <input checked="" type="checkbox"/> Disponibilità della risorsa <input checked="" type="checkbox"/> Qualità <input checked="" type="checkbox"/> Tariffe idriche <input checked="" type="checkbox"/> Quadro legislativo e regolatorio <input checked="" type="checkbox"/> Mancanza di fondi <input checked="" type="checkbox"/> Infrastrutture <input checked="" type="checkbox"/> Capacità: <input checked="" type="checkbox"/> istituzionali <input type="checkbox"/> tecniche <input type="checkbox"/> umane <input checked="" type="checkbox"/> Cambiamenti climatici <input checked="" type="checkbox"/> Scarsa cooperazione <input type="checkbox"/> Altro (specificare):	

Fornire una classificazione dei seguenti argomenti, in relazione alle questioni/problemi di cui sopra:
(Fornire una classificazione: 1 =più significativo, 5= meno significativo; è possibile assegnare lo stesso valore ad un massimo di due voci)

PERDITE

- ☒ consumi non autorizzati ☒ errori di misura ☒ perdite nelle reti di distribuzione
☒ perdite dagli impianti ☒ altro (specificare): CARONA MISURE

DISPONIBILITA' DELLA RISORSA

- ☒ incremento della domanda ☒ fluttuazioni stagionali ☒ capacità di stoccaggio
☒ cambiamenti nelle pratiche di uso del suolo ☒ elevati consumi relativi ad altri settori (agricoli, industriali, ecc.)
☒ cambiamenti climatici ☐ altro (specificare): _____

QUALITA'

- ☒ inquinamento da fonti puntuali ☒ inquinamento da fonti diffuse ☒ protezione delle fonti
☒ cambiamenti nelle pratiche di uso del suolo ☒ fluttuazioni stagionali ☒ cambiamenti climatici
☐ altro (specificare): _____

VINCOLI DEL SISTEMA DI DISTRIBUZIONE IDRICA

- ☒ rete inadeguata ☒ capacità delle stazioni di pompaggio ☒ carenze dei serbatoi
☒ scarsa manutenzione del sistema di distribuzione idrica ☒ vetustà delle infrastrutture
☐ altro (specificare): _____

Quali sono i principali vincoli che condizioneranno la gestione dell'approvvigionamento idrico nel prossimo futuro (nei prossimi 25-30 anni)?
(Fornire una classificazione: 1 =più significativo, 5= meno significativo; è possibile assegnare lo stesso valore ad un massimo di due voci)

- ☒ Perdite ☒ Disponibilità della risorsa ☒ Qualità ☒ Tariffe idriche
☒ Quadro legislativo e regolatorio ☒ Mancanza di fondi ☒ Infrastrutture
☒ Capacità: ☐ istituzionali ☒ tecniche ☐ umane
☒ Cambiamenti climatici ☒ Scarsa cooperazione ☐ Altro (specificare): _____

Quali sono i passi più importanti e le attività che potrebbero migliorare l'approvvigionamento idrico in termini di questioni e vincoli di cui sopra?

INTERCONNESSIONE FONTI
GESTIONE UNICA DI ATO

Alcune questioni trasversali potrebbero essere risolte attraverso:

(Fornire una classificazione: 1 =più significativo, 5= meno significativo; è possibile assegnare lo stesso valore ad un massimo di due voci)

	<input checked="" type="checkbox"/> Politiche integrate, che affrontino la maggior parte delle questioni <input checked="" type="checkbox"/> Politiche separate, rivolte singolarmente alla maggior parte delle questioni <input checked="" type="checkbox"/> Una migliore cooperazione tra i diversi settori <input checked="" type="checkbox"/> Una migliore cooperazione tra autorità locali e nazionali <input checked="" type="checkbox"/> Maggiori risorse finanziarie <input checked="" type="checkbox"/> Le tariffe idriche <input type="checkbox"/> Altro (specificare):
7	Elencare i 3 attori ovvero le 3 azioni più significative nell'ottica del miglioramento della gestione dell'approvvigionamento e delle risorse idriche: 1. ATO - 2. GESTIONE UNICA - 3. IMPLEMENTAZIONE ARSO SALVAGUARDIA
8	Quali sono le azioni che il tuo Ente/Organizzazione di appartenenza potrebbe adottare per migliorare la gestione dell'approvvigionamento e delle risorse idriche e contribuire alla sua sostenibilità? GESTIONE UNICA A LIVELLO DI ATO PIANIFICAZIONE INTERCOMMISSIONE RISORSE COORDINAMENTO CON ALTRI ENTI REGIONALI
9	Ritieni che solo azioni a livello statale possano contribuire a migliorare l'approvvigionamento idrico? <input checked="" type="checkbox"/> SÌ <input type="checkbox"/> NO Se la risposta è NO, elencare altri livelli istituzionali di rilievo:
	Il tuo grado di conoscenza/familiarità con il ruolo e le attività delle Commissioni Bilaterali di rilevanza sul tema della gestione dell'approvvigionamento e delle risorse idriche con carattere transfrontaliero/regionale può essere definito: <input type="checkbox"/> Completo <input type="checkbox"/> Discreto <input checked="" type="checkbox"/> Insufficiente
	Il tuo grado di conoscenza/familiarità con il ruolo e le attività delle Autorità locali di rilevanza sul tema dell'approvvigionamento idrico con carattere transfrontaliero/regionale può essere definito: <input type="checkbox"/> Completo <input checked="" type="checkbox"/> Discreto <input type="checkbox"/> Insufficiente
OK	Esistono, nel tuo paese/regione, norme quadro (trattati, accordi, protocolli di intesa, ecc.) significativi in relazione alla gestione di sistemi di approvvigionamento e risorse con carattere transfrontaliero/regionale di cui sei a conoscenza: <input checked="" type="checkbox"/> SÌ <input checked="" type="checkbox"/> NO Se la risposta è SÌ, riportarne gli estremi: SCAMBIO RISORSE MARCHE/UMBRIA e TRA ATO MARCHEGIANI

10 Il tuo grado di familiarità con vincoli e questioni inerenti le risorse idriche con carattere transfrontaliero/regionale può essere definito:

☐ Completo ☐ Discreto ☒ Insufficiente

Fornire ulteriori, eventuali, commenti:

L'implementazione dei Piani di Gestione dei Distretti idrografici, a livello nazionale, è un'attività:

☐ conclusa ☒ in corso ☐ da attivare

Fornire ulteriori, eventuali, commenti:

L'implementazione dei Piani di Gestione dei Distretti idrografici (riguardante i bacini idrografici transfrontalieri) è un'attività:

☐ conclusa ☒ in corso ☐ da attivare

Fornire ulteriori, eventuali, commenti:

11 Quali sono gli argomenti più importanti che desidereresti approfondire, in merito alla gestione dei sistemi di approvvigionamento e delle risorse idriche con carattere transfrontaliero/regionale?

SCHEMI ACCORDI / MODALITÀ TARIFFAZIONE / RESPONSABILITÀ - SICUREZZA

Consideri utile questo tipo di eventi (workshop/tavole rotonde)?

☒ SI ☐ NO ☐ Indifferente

Ulteriori commenti:



Networking for Drinking Water Supply in Adriatic Region



QUESTIONARIO: SISTEMI DI APPROVVIGIONAMENTO TRANSFRONTALIERI E DI RILEVANZA REGIONALE E GESTIONE DELLE RISORSE IDRICHE

L'attività di Capitalizzazione e Sostenibilità dei risultati è una componente essenziale del progetto stesso, utile a comporre un quadro d'unione per lo scambio di informazioni rilevanti e significative in relazione ai sistemi di approvvigionamento transfrontalieri o di rilevanza regionale tra portatori di interesse, autorità, istituti di ricerca, ecc.

I contributi raccolti in occasione dei workshop nazionali forniscono input importanti e concorrono alla corretta attuazione del Progetto DRINKADRIA.

Nome:	SIMONE
Cognome:	PANDURA
Ente/Organizzazione: (non compilare questa sezione se si preferisce rimanere anonimi)	APM SPA

Tipo di Ente/Organizzazione di appartenenza:

☒ Azienda di servizi (s.i.i.) ☐ Autorità: ☐ locale ☐ regionale ☐ nazionale
☐ Istituto di ricerca ☐ Associazione ☐ Altro (specificare):

La Vostra attività riguarda principalmente:

☒ approvvigionamento idrico ☐ protezione delle risorse idriche ☐ educazione/ricerca
☐ cooperazione internazionale ☐ aspetti finanziari/legali ☐ altro (specificare):

Quale scala spaziale rappresenta meglio il Vostro ambito di competenza e attività?
(Assegnare una stima in percentuale, in modo che il totale sia 100%
Esempio: locale -55%, nazionale -25%, altro - 20%)

locale 100% regionale 0% nazionale 0% internazionale 0% altro (specificare): 0, 0%

Quali sono attualmente le questioni e i problemi principali nella gestione dell'approvvigionamento idrico?
(Fornire una classificazione: 1 = più significativo, 5 = meno significativo; è possibile assegnare lo stesso valore ad un massimo di due questioni/problemi)

☒ Perdite ☒ Disponibilità della risorsa ☒ Qualità ☒ Tariffe idriche
☒ Quadro legislativo e regolatorio ☒ Mancanza di fondi ☒ Infrastrutture
☒ Capacità: ☒ istituzionali ☒ tecniche ☒ umane
☒ Cambiamenti climatici ☒ Scarsa cooperazione ☐ Altro (specificare):

Fornire una classificazione dei seguenti argomenti, in relazione alle questioni/problemi di cui sopra:
(Fornire una classificazione: 1 = più significativo, 5 = meno significativo; è possibile assegnare lo stesso valore ad un massimo di due voci)

PERDITE

- ☒ consumi non autorizzati ☒ errori di misura ☒ perdite nelle reti di distribuzione
☒ perdite dagli impianti ☐ altro (specificare): _____

DISPONIBILITA' DELLA RISORSA

- ☒ incremento della domanda ☒ fluttuazioni stagionali ☒ capacità di stoccaggio
☒ cambiamenti nelle pratiche di uso del suolo ☒ elevati consumi relativi ad altri settori (agricoli, industriali, ecc.)
☒ cambiamenti climatici ☐ altro (specificare): _____

QUALITA'

- ☒ inquinamento da fonti puntuali ☒ inquinamento da fonti diffuse ☒ protezione delle fonti
☒ cambiamenti nelle pratiche di uso del suolo ☒ fluttuazioni stagionali ☒ cambiamenti climatici
☐ altro (specificare): _____

VINCOLI DEL SISTEMA DI DISTRIBUZIONE IDRICA

- ☒ rete inadeguata ☒ capacità delle stazioni di pompaggio ☒ carenze dei serbatoi
☒ scarsa manutenzione del sistema di distribuzione idrica ☒ vetustà delle infrastrutture
☐ altro (specificare): _____

Quali sono i principali vincoli che condizioneranno la gestione dell'approvvigionamento idrico nel prossimo futuro (nei prossimi 25-30 anni)?

(Fornire una classificazione: 1 = più significativo, 5 = meno significativo; è possibile assegnare lo stesso valore ad un massimo di due voci)

- ☒ Perdite ☒ Disponibilità della risorsa ☒ Qualità ☒ Tariffe idriche
☒ Quadro legislativo e regolatorio ☒ Mancanza di fondi ☒ Infrastrutture
☒ Capacità: ☒ istituzionali ☒ tecniche ☒ umane
☒ Cambiamenti climatici ☒ Scarsa cooperazione ☐ Altro (specificare): _____

Quali sono i passi più importanti e le attività che potrebbero migliorare l'approvvigionamento idrico in termini di questioni e vincoli di cui sopra?

RICERCA NUOVE RISORSE IDRICHE
PROCESSO ACQUA RISORSE UMANE

Alcune questioni trasversali potrebbero essere risolte attraverso:

(Fornire una classificazione: 1 = più significativo, 5 = meno significativo; è possibile assegnare lo stesso valore ad un massimo di due voci)

6	<input checked="" type="checkbox"/> Politiche integrate, che affrontino la maggior parte delle questioni <input checked="" type="checkbox"/> Politiche separate, rivolte singolarmente alla maggior parte delle questioni <input checked="" type="checkbox"/> Una migliore cooperazione tra i diversi settori <input checked="" type="checkbox"/> Una migliore cooperazione tra autorità locali e nazionali <input checked="" type="checkbox"/> Maggiori risorse finanziarie <input checked="" type="checkbox"/> Le tariffe idriche <input type="checkbox"/> Altro (specificare):
7	Elencare i 3 attori ovvero le 3 azioni più significative nell'ottica del miglioramento della gestione dell'approvvigionamento e delle risorse idriche:
8	Quali sono le azioni che il tuo Ente/Organizzazione di appartenenza potrebbe adottare per migliorare la gestione dell'approvvigionamento e delle risorse idriche e contribuire alla sua sostenibilità?
9	Ritieni che solo azioni a livello statale possano contribuire a migliorare l'approvvigionamento idrico? <input type="checkbox"/> SI <input checked="" type="checkbox"/> NO Se la risposta è NO, elencare altri livelli istituzionali di rilievo:
	Il tuo grado di conoscenza/familiarità con il ruolo e le attività delle Commissioni Bilaterali di rilevanza sul tema della gestione dell'approvvigionamento e delle risorse idriche con carattere transfrontaliero/regionale può essere definito: <input type="checkbox"/> Completo <input type="checkbox"/> Discreto <input checked="" type="checkbox"/> Insufficiente
	Il tuo grado di conoscenza/familiarità con il ruolo e le attività delle Autorità locali di rilevanza sul tema dell'approvvigionamento idrico con carattere transfrontaliero/regionale può essere definito: <input type="checkbox"/> Completo <input checked="" type="checkbox"/> Discreto <input type="checkbox"/> Insufficiente
	Esistono, nel tuo paese/regione, norme quadro (trattati, accordi, protocolli di intesa, ecc.) significativi in relazione alla gestione di sistemi di approvvigionamento e risorse con carattere transfrontaliero/regionale di cui sei a conoscenza: <input type="checkbox"/> SI <input checked="" type="checkbox"/> NO Se la risposta è SI, riportarne gli estremi:

10

Il tuo grado di familiarità con vincoli e questioni inerenti le risorse idriche con carattere transfrontaliero/regionale può essere definito:

☐ Completo ☐ Discreto ☒ Insufficiente

Fornire ulteriori, eventuali, commenti:

L'implementazione dei Piani di Gestione dei Distretti idrografici, a livello nazionale, è un'attività:

☐ conclusa ☐ in corso ☒ da attivare

Fornire ulteriori, eventuali, commenti:

L'implementazione dei Piani di Gestione dei Distretti idrografici (riguardante i bacini idrografici transfrontalieri) è un'attività:

☐ conclusa ☐ in corso ☒ da attivare

Fornire ulteriori, eventuali, commenti:

11

Quali sono gli argomenti più importanti che desidereresti approfondire, in merito alla gestione dei sistemi di approvvigionamento e delle risorse idriche con carattere transfrontaliero/regionale?

Consideri utile questo tipo di eventi (workshop/tavole rotonde)?

☒ SI ☐ NO ☐ Indifferente

Ulteriori commenti:

QUESTIONARIO: SISTEMI DI APPROVVIGIONAMENTO TRANSFRONTALIERI E DI RILEVANZA REGIONALE E GESTIONE DELLE RISORSE IDRICHE

L'attività di Capitalizzazione e Sostenibilità dei risultati è una componente essenziale del progetto stesso, utile a comporre un quadro d'unione per lo scambio di informazioni rilevanti e significative in relazione ai sistemi di approvvigionamento transfrontalieri o di rilevanza regionale tra portatori di interesse, autorità, istituti di ricerca, ecc.

I contributi raccolti in occasione dei workshop nazionali forniscono input importanti e concorrono alla corretta attuazione del Progetto DRINKADRIA.

Nome: Cognome: Ente/Organizzazione: (non compilare questa sezione se si preferisce rimanere anonimi)	FRANCESCO CERESANI COMUNE POLENZA
Tipo di Ente/Organizzazione di appartenenza: <input type="checkbox"/> Azienda di servizi (s.i.i.) <input checked="" type="checkbox"/> Autorità: <input checked="" type="checkbox"/> locale <input type="checkbox"/> regionale <input type="checkbox"/> nazionale <input type="checkbox"/> Istituto di ricerca <input type="checkbox"/> Associazione <input type="checkbox"/> Altro (specificare):	
La Vostra attività riguarda principalmente: <input type="checkbox"/> approvvigionamento idrico <input type="checkbox"/> protezione delle risorse idriche <input type="checkbox"/> educazione/ricerca <input type="checkbox"/> cooperazione internazionale <input type="checkbox"/> aspetti finanziari/legali <input checked="" type="checkbox"/> altro (specificare): <i>€ 600.000.000</i>	
Quale scala spaziale rappresenta meglio il Vostro ambito di competenza e attività? (Assegnare una stima in percentuale, in modo che il totale sia 100% Esempio: locale -55%. nazionale -25%, altro - 20%) locale <u>100</u> % regionale <u>0</u> % nazionale <u>0</u> % internazionale <u>0</u> % altro (specificare): <u>0</u> %, <u>0</u> %	
Quali sono attualmente le questioni e i problemi principali nella gestione dell'approvvigionamento idrico? (Fornire una classificazione: 1 = più significativo, 5 = meno significativo; è possibile assegnare lo stesso valore ad un massimo di due questioni/problemi) <input checked="" type="checkbox"/> Perdite <input checked="" type="checkbox"/> Disponibilità della risorsa <input checked="" type="checkbox"/> Qualità <input checked="" type="checkbox"/> Tariffe idriche <input checked="" type="checkbox"/> Quadro legislativo e regolatorio <input checked="" type="checkbox"/> Mancanza di fondi <input checked="" type="checkbox"/> Infrastrutture <input checked="" type="checkbox"/> Capacità: <input checked="" type="checkbox"/> istituzionali <input type="checkbox"/> tecniche <input type="checkbox"/> umane <input checked="" type="checkbox"/> Cambiamenti climatici <input type="checkbox"/> Scarsa cooperazione <input type="checkbox"/> Altro (specificare):	

Fornire una classificazione dei seguenti argomenti, in relazione alle questioni/problemi di cui sopra:
(Fornire una classificazione: 1 =più significativo, 5= meno significativo; è possibile assegnare lo stesso valore ad un massimo di due voci)

PERDITE

- ☒ 3 consumi non autorizzati ☒ 2 errori di misura ☐ perdite nelle reti di distribuzione
☒ 1 perdite dagli impianti ☐ altro (specificare): _____

DISPONIBILITA' DELLA RISORSA

- ☐ incremento della domanda ☐ fluttuazioni stagionali ☒ 1 capacità di stoccaggio
☐ cambiamenti nelle pratiche di uso del suolo ☐ elevati consumi relativi ad altri settori (agricoli, industriali, ecc.)
☐ cambiamenti climatici ☐ altro (specificare): _____

QUALITA'

- ☐ inquinamento da fonti puntuali ☐ inquinamento da fonti diffuse ☒ 1 protezione delle fonti
☐ cambiamenti nelle pratiche di uso del suolo ☐ fluttuazioni stagionali ☐ cambiamenti climatici
☐ altro (specificare): _____

VINCOLI DEL SISTEMA DI DISTRIBUZIONE IDRICA

- ☐ rete inadeguata ☐ capacità delle stazioni di pompaggio ☒ 1 carenze dei serbatoi
☐ scarsa manutenzione del sistema di distribuzione idrica ☒ 1 vetustà delle infrastrutture
☐ altro (specificare): _____

Quali sono i principali vincoli che condizioneranno la gestione dell'approvvigionamento idrico nel prossimo futuro (nei prossimi 25-30 anni)?

(Fornire una classificazione: 1 =più significativo, 5= meno significativo; è possibile assegnare lo stesso valore ad un massimo di due voci)

- ☒ 3 Perdite ☒ 1 Disponibilità della risorsa ☒ 1 Qualità ☒ 2 Tariffe idriche
☒ 1 Quadro legislativo e regolatorio ☒ 2 Mancanza di fondi ☐ Infrastrutture
☒ 1 Capacità: ☒ istituzionali ☐ tecniche ☐ umane
☐ Cambiamenti climatici ☐ Scarsa cooperazione ☐ Altro (specificare): _____

Quali sono i passi più importanti e le attività che potrebbero migliorare l'approvvigionamento idrico in termini di questioni e vincoli di cui sopra?

Alcune questioni trasversali potrebbero essere risolte attraverso:

(Fornire una classificazione: 1 =più significativo, 5= meno significativo; è possibile assegnare lo stesso valore ad un massimo di due voci)

6	<input checked="" type="checkbox"/> Politiche integrate, che affrontino la maggior parte delle questioni <input checked="" type="checkbox"/> Politiche separate, rivolte singolarmente alla maggior parte delle questioni <input checked="" type="checkbox"/> Una migliore cooperazione tra i diversi settori <input checked="" type="checkbox"/> Una migliore cooperazione tra autorità locali e nazionali <input checked="" type="checkbox"/> Maggiori risorse finanziarie <input checked="" type="checkbox"/> Le tariffe idriche <input checked="" type="checkbox"/> Altro (specificare):
7	Elencare i 3 attori ovvero le 3 azioni più significative nell'ottica del miglioramento della gestione dell'approvvigionamento e delle risorse idriche: SESTORE E INFRASTRUTTURE
8	Quali sono le azioni che il tuo Ente/Organizzazione di appartenenza potrebbe adottare per migliorare la gestione dell'approvvigionamento e delle risorse idriche e contribuire alla sua sostenibilità? UNICO SESTORE DI TUTTE LE ASSI = MAGGIORE DOTAZIONE OGGI DI RISORSA
9	Ritieni che solo azioni a livello statale possano contribuire a migliorare l'approvvigionamento idrico? <input type="checkbox"/> SI <input checked="" type="checkbox"/> NO Se la risposta è NO, elencare altri livelli istituzionali di rilievo: REGIONE E CITTÀ TIROLARI
	Il tuo grado di conoscenza/familiarità con il ruolo e le attività delle Commissioni Bilaterali di rilevanza sul tema della gestione dell'approvvigionamento e delle risorse idriche con carattere transfrontaliero/regionale può essere definito: <input type="checkbox"/> Completo <input checked="" type="checkbox"/> Discreto <input type="checkbox"/> Insufficiente
	Il tuo grado di conoscenza/familiarità con il ruolo e le attività delle Autorità locali di rilevanza sul tema dell'approvvigionamento idrico con carattere transfrontaliero/regionale può essere definito: <input type="checkbox"/> Completo <input checked="" type="checkbox"/> Discreto <input type="checkbox"/> Insufficiente
	Esistono, nel tuo paese/regione, norme quadro (trattati, accordi, protocolli di intesa, ecc.) significativi in relazione alla gestione di sistemi di approvvigionamento e risorse con carattere transfrontaliero/regionale di cui sei a conoscenza: <input checked="" type="checkbox"/> SI <input type="checkbox"/> NO Se la risposta è SI, riportarne gli estremi:

<p>10</p> <p>Il tuo grado di familiarità con vincoli e questioni inerenti le risorse idriche con carattere transfrontaliero/regionale può essere definito:</p> <p><input type="checkbox"/> Completo <input type="checkbox"/> Discreto <input checked="" type="checkbox"/> Insufficiente</p> <p>Fornire ulteriori, eventuali, commenti:</p>
<p>L'implementazione dei Piani di Gestione dei Distretti idrografici, a livello nazionale, è un'attività:</p> <p><input type="checkbox"/> conclusa <input checked="" type="checkbox"/> in corso <input type="checkbox"/> da attivare</p> <p>Fornire ulteriori, eventuali, commenti:</p>
<p>L'implementazione dei Piani di Gestione dei Distretti idrografici (riguardante i bacini idrografici transfrontalieri) è un'attività:</p> <p><input type="checkbox"/> conclusa <input checked="" type="checkbox"/> in corso <input type="checkbox"/> da attivare</p> <p>Fornire ulteriori, eventuali, commenti:</p>
<p>11</p> <p>Quali sono gli argomenti più importanti che desidereresti approfondire, in merito alla gestione dei sistemi di approvvigionamento e delle risorse idriche con carattere transfrontaliero/regionale?</p>
<p>Consideri utile questo tipo di eventi (workshop/tavole rotonde)?</p> <p><input checked="" type="checkbox"/> SI <input type="checkbox"/> NO <input type="checkbox"/> Indifferente</p>
<p>Ulteriori commenti:</p>

QUESTIONARIO: SISTEMI DI APPROVVIGIONAMENTO TRANSFRONTALIERI E DI RILEVANZA REGIONALE E GESTIONE DELLE RISORSE IDRICHE

L'attività di Capitalizzazione e Sostenibilità dei risultati è una componente essenziale del progetto stesso, utile a comporre un quadro d'unione per lo scambio di informazioni rilevanti e significative in relazione ai sistemi di approvvigionamento transfrontalieri o di rilevanza regionale tra portatori di interesse, autorità, istituti di ricerca, ecc.

I contributi raccolti in occasione dei workshop nazionali forniscono input importanti e concorrono alla corretta attuazione del Progetto DRINKADRIA.

Nome:	
Cognome:	
Ente/Organizzazione:	
(non compilare questa sezione se si preferisce rimanere anonimi)	
<p>Tipo di Ente/Organizzazione di appartenenza:</p> <p> <input type="checkbox"/> Azienda di servizi (s.i.i.) <input checked="" type="checkbox"/> Autorità: <input checked="" type="checkbox"/> locale <input type="checkbox"/> regionale <input type="checkbox"/> nazionale <input type="checkbox"/> Istituto di ricerca <input type="checkbox"/> Associazione <input type="checkbox"/> Altro (specificare): </p>	
<p>La Vostra attività riguarda principalmente:</p> <p> <input type="checkbox"/> approvvigionamento idrico <input checked="" type="checkbox"/> protezione delle risorse idriche <input checked="" type="checkbox"/> educazione/ricerca <input type="checkbox"/> cooperazione internazionale <input type="checkbox"/> aspetti finanziari/legali <input type="checkbox"/> altro (specificare): </p>	
<p>Quale scala spaziale rappresenta meglio il Vostro ambito di competenza e attività? <i>(Assegnare una stima in percentuale, in modo che il totale sia 100%)</i> <i>Esempio: locale -55%. nazionale -25%, altro - 20%)</i></p> <p> locale <u>10</u> % regionale <u>30</u> % nazionale <u> </u> % internazionale <u> </u> % altro (specificare): <u> </u> , <u> </u> % </p>	
<p>Quali sono attualmente le questioni e i problemi principali nella gestione dell'approvvigionamento idrico? <i>(Fornire una classificazione: 1 = più significativo, 5 = meno significativo; è possibile assegnare lo stesso valore ad un massimo di due questioni/problemi)</i></p> <p> <input type="checkbox"/> Perdite <input checked="" type="checkbox"/> Disponibilità della risorsa <input checked="" type="checkbox"/> Qualità <input checked="" type="checkbox"/> Tariffe idriche <input checked="" type="checkbox"/> Quadro legislativo e regolatorio <input checked="" type="checkbox"/> Mancanza di fondi <input checked="" type="checkbox"/> Infrastrutture <input type="checkbox"/> Capacità: <input type="checkbox"/> istituzionali <input type="checkbox"/> tecniche <input type="checkbox"/> umane <input type="checkbox"/> Cambiamenti climatici <input type="checkbox"/> Scarsa cooperazione <input type="checkbox"/> Altro (specificare): </p>	

Fornire una classificazione dei seguenti argomenti, in relazione alle questioni/problemi di cui sopra:
(Fornire una classificazione: 1 =più significativo, 5= meno significativo; è possibile assegnare lo stesso valore ad un massimo di due voci)

PERDITE

- ☐ consumi non autorizzati ☒ errori di misura ☒ perdite nelle reti di distribuzione
☒ perdite dagli impianti ☐ altro (specificare): _____

DISPONIBILITA' DELLA RISORSA

- ☒ incremento della domanda ☒ fluttuazioni stagionali ☐ capacità di stoccaggio
☐ cambiamenti nelle pratiche di uso del suolo ☒ elevati consumi relativi ad altri settori (agricoli, industriali, ecc.)
☐ cambiamenti climatici ☐ altro (specificare): _____

QUALITA'

- ☒ inquinamento da fonti puntuali ☒ inquinamento da fonti diffuse ☐ protezione delle fonti
☐ cambiamenti nelle pratiche di uso del suolo ☐ fluttuazioni stagionali ☐ cambiamenti climatici
☐ altro (specificare): _____

VINCOLI DEL SISTEMA DI DISTRIBUZIONE IDRICA

- ☐ rete inadeguata ☐ capacità delle stazioni di pompaggio ☐ carenze dei serbatoi
☐ scarsa manutenzione del sistema di distribuzione idrica ☐ vetustà delle infrastrutture
☐ altro (specificare): _____

Quali sono i principali vincoli che condizioneranno la gestione dell'approvvigionamento idrico nel prossimo futuro (nei prossimi 25-30 anni)?
(Fornire una classificazione: 1 =più significativo, 5= meno significativo; è possibile assegnare lo stesso valore ad un massimo di due voci)

- ☐ Perdite ☐ Disponibilità della risorsa ☐ Qualità ☐ Tariffe idriche
☐ Quadro legislativo e regolatorio ☐ Mancanza di fondi ☐ Infrastrutture
☐ Capacità: ☐ istituzionali ☐ tecniche ☐ umane
☐ Cambiamenti climatici ☐ Scarsa cooperazione ☐ Altro (specificare): _____

Quali sono i passi più importanti e le attività che potrebbero migliorare l'approvvigionamento idrico in termini di questioni e vincoli di cui sopra?

Alcune questioni trasversali potrebbero essere risolte attraverso:

(Fornire una classificazione: 1 =più significativo, 5= meno significativo; è possibile assegnare lo stesso valore ad un massimo di due voci)

<p>6</p>	<p><input checked="" type="checkbox"/> Politiche integrate, che affrontino la maggior parte delle questioni</p> <p><input type="checkbox"/> Politiche separate, rivolte singolarmente alla maggior parte delle questioni</p> <p><input type="checkbox"/> Una migliore cooperazione tra i diversi settori</p> <p><input checked="" type="checkbox"/> Una migliore cooperazione tra autorità locali e nazionali</p> <p><input checked="" type="checkbox"/> Maggiori risorse finanziarie</p> <p><input type="checkbox"/> Le tariffe idriche</p> <p><input type="checkbox"/> Altro (specificare):</p>
<p>7</p>	<p>Elencare i 3 attori ovvero le 3 azioni più significative nell'ottica del miglioramento della gestione dell'approvvigionamento e delle risorse idriche:</p>
<p>8</p>	<p>Quali sono le azioni che il tuo Ente/Organizzazione di appartenenza potrebbe adottare per migliorare la gestione dell'approvvigionamento e delle risorse idriche e contribuire alla sua sostenibilità?</p>
<p>9</p>	<p>Ritieni che solo azioni a livello statale possano contribuire a migliorare l'approvvigionamento idrico?</p> <p><input checked="" type="checkbox"/> SI <input type="checkbox"/> NO</p> <p>Se la risposta è NO, elencare altri livelli istituzionali di rilievo:</p>
	<p>Il tuo grado di conoscenza/familiarità con il ruolo e le attività delle Commissioni Bilaterali di rilevanza sul tema della gestione dell'approvvigionamento e delle risorse idriche con carattere transfrontaliero/regionale può essere definito:</p> <p><input type="checkbox"/> Completo <input type="checkbox"/> Discreto <input checked="" type="checkbox"/> Insufficiente</p>
	<p>Il tuo grado di conoscenza/familiarità con il ruolo e le attività delle Autorità locali di rilevanza sul tema dell'approvvigionamento idrico con carattere transfrontaliero/regionale può essere definito:</p> <p><input type="checkbox"/> Completo <input checked="" type="checkbox"/> Discreto <input type="checkbox"/> Insufficiente</p>
	<p>Esistono, nel tuo paese/regione, norme quadro (trattati, accordi, protocolli di intesa, ecc.) significativi in relazione alla gestione di sistemi di approvvigionamento e risorse con carattere transfrontaliero/regionale di cui sei a conoscenza:</p> <p><input type="checkbox"/> SI <input checked="" type="checkbox"/> NO</p> <p>Se la risposta è SI, riportarne gli estremi:</p>

10 Il tuo grado di familiarità con vincoli e questioni inerenti le risorse idriche con carattere transfrontaliero/regionale può essere definito:

☐ Completo ☒ Discreto ☐ Insufficiente

Fornire ulteriori, eventuali, commenti:

L'implementazione dei Piani di Gestione dei Distretti idrografici, a livello nazionale, è un'attività:

☐ conclusa ☒ in corso ☐ da attivare

Fornire ulteriori, eventuali, commenti:

L'implementazione dei Piani di Gestione dei Distretti idrografici (riguardante i bacini idrografici transfrontalieri) è un'attività:

☐ conclusa ☐ in corso ☐ da attivare

Fornire ulteriori, eventuali, commenti:

11 Quali sono gli argomenti più importanti che desidereresti approfondire, in merito alla gestione dei sistemi di approvvigionamento e delle risorse idriche con carattere transfrontaliero/regionale?

Consideri utile questo tipo di eventi (workshop/tavole rotonde)?

☒ SI ☐ NO ☐ Indifferente

Ulteriori commenti:

QUESTIONARIO: SISTEMI DI APPROVVIGIONAMENTO TRANSFRONTALIERI E DI RILEVANZA REGIONALE E GESTIONE DELLE RISORSE IDRICHE

L'attività di Capitalizzazione e Sostenibilità dei risultati è una componente essenziale del progetto stesso, utile a comporre un quadro d'unione per lo scambio di informazioni rilevanti e significative in relazione ai sistemi di approvvigionamento transfrontalieri o di rilevanza regionale tra portatori di interesse, autorità, istituti di ricerca, ecc.

I contributi raccolti in occasione dei workshop nazionali forniscono input importanti e concorrono alla corretta attuazione del Progetto DRINKADRIA.

Nome:	
Cognome:	
Ente/Organizzazione: (non compilare questa sezione se si preferisce rimanere anonimi)	
<p>Tipo di Ente/Organizzazione di appartenenza:</p> <p> <input type="checkbox"/> Azienda di servizi (s.i.i.) <input type="checkbox"/> Autorità: <input checked="" type="checkbox"/> locale <input type="checkbox"/> regionale <input type="checkbox"/> nazionale <input type="checkbox"/> Istituto di ricerca <input type="checkbox"/> Associazione <input type="checkbox"/> Altro (specificare): </p>	
<p>La Vostra attività riguarda principalmente:</p> <p> <input type="checkbox"/> approvvigionamento idrico <input checked="" type="checkbox"/> protezione delle risorse idriche <input type="checkbox"/> educazione/ricerca <input type="checkbox"/> cooperazione internazionale <input type="checkbox"/> aspetti finanziari/legali <input type="checkbox"/> altro (specificare): </p>	
<p>Quale scala spaziale rappresenta meglio il Vostro ambito di competenza e attività? (Assegnare una stima in percentuale, in modo che il totale sia 100%) Esempio: locale -55%. nazionale -25%, altro - 20%)</p> <p> locale <u>80</u> % regionale <u>10</u> % nazionale <u>10</u> % internazionale _ % altro (specificare): _____, _ % </p>	
<p>Quali sono attualmente le questioni e i problemi principali nella gestione dell'approvvigionamento idrico? (Fornire una classificazione: 1 = più significativo, 5 = meno significativo; è possibile assegnare lo stesso valore ad un massimo di due questioni/problemi)</p> <p> <input checked="" type="checkbox"/> Perdite <input type="checkbox"/> Disponibilità della risorsa <input type="checkbox"/> Qualità <input checked="" type="checkbox"/> Tariffe idriche <input checked="" type="checkbox"/> Quadro legislativo e regolatorio <input type="checkbox"/> Mancanza di fondi <input type="checkbox"/> Infrastrutture <input checked="" type="checkbox"/> Capacità: <input type="checkbox"/> istituzionali <input type="checkbox"/> tecniche <input type="checkbox"/> umane <input checked="" type="checkbox"/> Cambiamenti climatici <input type="checkbox"/> Scarsa cooperazione <input type="checkbox"/> Altro (specificare): </p>	

Fornire una classificazione dei seguenti argomenti, in relazione alle questioni/problemi di cui sopra:
(Fornire una classificazione: 1 =più significativo, 5= meno significativo; è possibile assegnare lo stesso valore ad un massimo di due voci)

PERDITE

- ☒ consumi non autorizzati ☒ errori di misura ☒ perdite nelle reti di distribuzione
☒ perdite dagli impianti ☒ altro (specificare): _____

DISPONIBILITA' DELLA RISORSA

- ☒ incremento della domanda ☒ fluttuazioni stagionali ☒ capacità di stoccaggio
☒ cambiamenti nelle pratiche di uso del suolo ☐ elevati consumi relativi ad altri settori (agricoli, industriali, ecc.)
☒ cambiamenti climatici ☐ altro (specificare): _____

QUALITA'

- ☒ inquinamento da fonti puntuali ☒ inquinamento da fonti diffuse ☒ protezione delle fonti
☐ cambiamenti nelle pratiche di uso del suolo ☐ fluttuazioni stagionali ☒ cambiamenti climatici
☐ altro (specificare): _____

VINCOLI DEL SISTEMA DI DISTRIBUZIONE IDRICA

- ☐ rete inadeguata ☐ capacità delle stazioni di pompaggio ☐ carenze dei serbatoi
☐ scarsa manutenzione del sistema di distribuzione idrica ☐ vetustà delle infrastrutture
☐ altro (specificare): _____

Quali sono i principali vincoli che condizioneranno la gestione dell'approvvigionamento idrico nel prossimo futuro (nei prossimi 25-30 anni)?

(Fornire una classificazione: 1 =più significativo, 5= meno significativo; è possibile assegnare lo stesso valore ad un massimo di due voci)

- ☐ Perdite ☐ Disponibilità della risorsa ☐ Qualità ☐ Tariffe idriche
☐ Quadro legislativo e regolatorio ☐ Mancanza di fondi ☐ Infrastrutture
☐ Capacità: ☐ istituzionali ☐ tecniche ☐ umane
☒ Cambiamenti climatici ☒ Scarsa cooperazione ☐ Altro (specificare): _____

Quali sono i passi più importanti e le attività che potrebbero migliorare l'approvvigionamento idrico in termini di questioni e vincoli di cui sopra?

Alcune questioni trasversali potrebbero essere risolte attraverso:

(Fornire una classificazione: 1 =più significativo, 5= meno significativo; è possibile assegnare lo stesso valore ad un massimo di due voci)

6	<input type="checkbox"/> Politiche integrate, che affrontino la maggior parte delle questioni <input type="checkbox"/> Politiche separate, rivolte singolarmente alla maggior parte delle questioni <input type="checkbox"/> Una migliore cooperazione tra i diversi settori <input type="checkbox"/> Una migliore cooperazione tra autorità locali e nazionali <input type="checkbox"/> Maggiori risorse finanziarie <input type="checkbox"/> Le tariffe idriche <input type="checkbox"/> Altro (specificare):
7	Elencare i 3 attori ovvero le 3 azioni più significative nell'ottica del miglioramento della gestione dell'approvvigionamento e delle risorse idriche:
8	Quali sono le azioni che il tuo Ente/Organizzazione di appartenenza potrebbe adottare per migliorare la gestione dell'approvvigionamento e delle risorse idriche e contribuire alla sua sostenibilità?
9	Ritieni che solo azioni a livello statale possano contribuire a migliorare l'approvvigionamento idrico? <input checked="" type="checkbox"/> SI <input type="checkbox"/> NO Se la risposta è NO, elencare altri livelli istituzionali di rilievo:
	Il tuo grado di conoscenza/familiarità con il ruolo e le attività delle Commissioni Bilaterali di rilevanza sul tema della gestione dell'approvvigionamento e delle risorse idriche con carattere transfrontaliero/regionale può essere definito: <input type="checkbox"/> Completo <input checked="" type="checkbox"/> Discreto <input type="checkbox"/> Insufficiente
	Il tuo grado di conoscenza/familiarità con il ruolo e le attività delle Autorità locali di rilevanza sul tema dell'approvvigionamento idrico con carattere transfrontaliero/regionale può essere definito: <input type="checkbox"/> Completo <input checked="" type="checkbox"/> Discreto <input type="checkbox"/> Insufficiente
	Esistono, nel tuo paese/regione, norme quadro (trattati, accordi, protocolli di intesa, ecc.) significativi in relazione alla gestione di sistemi di approvvigionamento e risorse con carattere transfrontaliero/regionale di cui sei a conoscenza: <input type="checkbox"/> SI <input checked="" type="checkbox"/> NO Se la risposta è SI, riportarne gli estremi:

10 Il tuo grado di familiarità con vincoli e questioni inerenti le risorse idriche con carattere transfrontaliero/regionale può essere definito:

☐ Completo ☐ Discreto ☒ Insufficiente

Fornire ulteriori, eventuali, commenti:

L'implementazione dei Piani di Gestione dei Distretti idrografici, a livello nazionale, è un'attività:

☐ conclusa ☒ in corso ☐ da attivare

Fornire ulteriori, eventuali, commenti:

L'implementazione dei Piani di Gestione dei Distretti idrografici (riguardante i bacini idrografici transfrontalieri) è un'attività:

☐ conclusa ☒ in corso ☐ da attivare

Fornire ulteriori, eventuali, commenti:

11 Quali sono gli argomenti più importanti che desidereresti approfondire, in merito alla gestione dei sistemi di approvvigionamento e delle risorse idriche con carattere transfrontaliero/regionale?

Consideri utile questo tipo di eventi (workshop/tavole rotonde)?

☒ SI ☐ NO ☐ Indifferente

Ulteriori commenti:

QUESTIONARIO: SISTEMI DI APPROVVIGIONAMENTO TRANSFRONTALIERI E DI RILEVANZA REGIONALE E GESTIONE DELLE RISORSE IDRICHE

L'attività di Capitalizzazione e Sostenibilità dei risultati è una componente essenziale del progetto stesso, utile a comporre un quadro d'unione per lo scambio di informazioni rilevanti e significative in relazione ai sistemi di approvvigionamento transfrontalieri o di rilevanza regionale tra portatori di interesse, autorità, istituti di ricerca, ecc.

I contributi raccolti in occasione dei workshop nazionali forniscono input importanti e concorrono alla corretta attuazione del Progetto DRINKADRIA.

Nome:	
Cognome:	
Ente/Organizzazione:	
(non compilare questa sezione se si preferisce rimanere anonimi)	
Tipo di Ente/Organizzazione di appartenenza: <input checked="" type="checkbox"/> Azienda di servizi (s.i.i.) <input type="checkbox"/> Autorità: <input type="checkbox"/> locale <input type="checkbox"/> regionale <input type="checkbox"/> nazionale <input type="checkbox"/> Istituto di ricerca <input type="checkbox"/> Associazione <input type="checkbox"/> Altro (specificare):	
La Vostra attività riguarda principalmente: <input type="checkbox"/> approvvigionamento idrico <input type="checkbox"/> protezione delle risorse idriche <input type="checkbox"/> educazione/ricerca <input type="checkbox"/> cooperazione internazionale <input checked="" type="checkbox"/> aspetti finanziari/legali <input type="checkbox"/> altro (specificare):	
Quale scala spaziale rappresenta meglio il Vostro ambito di competenza e attività? (Assegnare una stima in percentuale, in modo che il totale sia 100% Esempio: locale -55%. nazionale -25%, altro - 20%) locale <u>50</u> % regionale <u>20</u> % nazionale <u>10</u> % internazionale <u>10</u> % altro (specificare): _____, ____%	
Quali sono attualmente le questioni e i problemi principali nella gestione dell'approvvigionamento idrico? (Fornire una classificazione: 1 = più significativo, 5 = meno significativo; è possibile assegnare lo stesso valore ad un massimo di due questioni/problemi) <input checked="" type="checkbox"/> Perdite <input checked="" type="checkbox"/> Disponibilità della risorsa <input checked="" type="checkbox"/> Qualità <input checked="" type="checkbox"/> Tariffe idriche <input checked="" type="checkbox"/> Quadro legislativo e regolatorio <input type="checkbox"/> Mancanza di fondi <input type="checkbox"/> Infrastrutture <input checked="" type="checkbox"/> Capacità: <input checked="" type="checkbox"/> istituzionali <input checked="" type="checkbox"/> tecniche <input checked="" type="checkbox"/> umane <input checked="" type="checkbox"/> Cambiamenti climatici <input checked="" type="checkbox"/> Scarsa cooperazione <input type="checkbox"/> Altro (specificare):	

Fornire una classificazione dei seguenti argomenti, in relazione alle questioni/problemi di cui sopra:
(Fornire una classificazione: 1 =più significativo, 5= meno significativo; è possibile assegnare lo stesso valore ad un massimo di due voci)

PERDITE

- ☒ consumi non autorizzati ☒ errori di misura ☒ perdite nelle reti di distribuzione
☒ perdite dagli impianti ☐ altro (specificare): _____

DISPONIBILITA' DELLA RISORSA

- ☒ incremento della domanda ☒ fluttuazioni stagionali ☒ capacità di stoccaggio
☒ cambiamenti nelle pratiche di uso del suolo ☒ elevati consumi relativi ad altri settori (agricoli, industriali, ecc.)
☒ cambiamenti climatici ☐ altro (specificare): _____

QUALITA'

- ☒ inquinamento da fonti puntuali ☒ inquinamento da fonti diffuse ☒ protezione delle fonti
☒ cambiamenti nelle pratiche di uso del suolo ☒ fluttuazioni stagionali ☒ cambiamenti climatici
☐ altro (specificare): _____

VINCOLI DEL SISTEMA DI DISTRIBUZIONE IDRICA

- ☒ rete inadeguata ☒ capacità delle stazioni di pompaggio ☒ carenze dei serbatoi
☒ scarsa manutenzione del sistema di distribuzione idrica ☒ vetustà delle infrastrutture
☐ altro (specificare): _____

Quali sono i principali vincoli che condizioneranno la gestione dell'approvvigionamento idrico nel prossimo futuro (nei prossimi 25-30 anni)?

(Fornire una classificazione: 1 =più significativo, 5= meno significativo; è possibile assegnare lo stesso valore ad un massimo di due voci)

- ☒ Perdite ☒ Disponibilità della risorsa ☒ Qualità ☒ Tariffe idriche
☒ Quadro legislativo e regolatorio ☒ Mancanza di fondi ☒ Infrastrutture
☒ Capacità: ☒ istituzionali ☒ tecniche ☒ umane
☒ Cambiamenti climatici ☒ Scarsa cooperazione ☐ Altro (specificare): _____

Quali sono i passi più importanti e le attività che potrebbero migliorare l'approvvigionamento idrico in termini di questioni e vincoli di cui sopra?

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(Fornire una classificazione: 1 =più significativo, 5= meno significativo; è possibile assegnare lo stesso valore ad un massimo di due voci)

6	<input checked="" type="checkbox"/> Politiche integrate, che affrontino la maggior parte delle questioni <input checked="" type="checkbox"/> Politiche separate, rivolte singolarmente alla maggior parte delle questioni <input checked="" type="checkbox"/> Una migliore cooperazione tra i diversi settori <input checked="" type="checkbox"/> Una migliore cooperazione tra autorità locali e nazionali <input checked="" type="checkbox"/> Maggiori risorse finanziarie <input checked="" type="checkbox"/> Le tariffe idriche <input type="checkbox"/> Altro (specificare):
7	Elencare i 3 attori ovvero le 3 azioni più significative nell'ottica del miglioramento della gestione dell'approvvigionamento e delle risorse idriche:
8	Quali sono le azioni che il tuo Ente/Organizzazione di appartenenza potrebbe adottare per migliorare la gestione dell'approvvigionamento e delle risorse idriche e contribuire alla sua sostenibilità?
9	Ritieni che solo azioni a livello statale possano contribuire a migliorare l'approvvigionamento idrico? <input type="checkbox"/> SI <input checked="" type="checkbox"/> NO Se la risposta è NO, elencare altri livelli istituzionali di rilievo: <i>REGIONE</i>
	Il tuo grado di conoscenza/familiarità con il ruolo e le attività delle Commissioni Bilaterali di rilevanza sul tema della gestione dell'approvvigionamento e delle risorse idriche con carattere transfrontaliero/regionale può essere definito: <input type="checkbox"/> Completo <input checked="" type="checkbox"/> Discreto <input type="checkbox"/> Insufficiente
	Il tuo grado di conoscenza/familiarità con il ruolo e le attività delle Autorità locali di rilevanza sul tema dell'approvvigionamento idrico con carattere transfrontaliero/regionale può essere definito: <input type="checkbox"/> Completo <input checked="" type="checkbox"/> Discreto <input type="checkbox"/> Insufficiente
	Esistono, nel tuo paese/regione, norme quadro (trattati, accordi, protocolli di intesa, ecc.) significativi in relazione alla gestione di sistemi di approvvigionamento e risorse con carattere transfrontaliero/regionale di cui sei a conoscenza: <input type="checkbox"/> SI <input checked="" type="checkbox"/> NO Se la risposta è SI, riportarne gli estremi:

10 Il tuo grado di familiarità con vincoli e questioni inerenti le risorse idriche con carattere transfrontaliero/regionale può essere definito:

☐ Completo ☒ Discreto ☐ Insufficiente

Fornire ulteriori, eventuali, commenti:

L'implementazione dei Piani di Gestione dei Distretti idrografici, a livello nazionale, è un'attività:

☐ conclusa ☒ in corso ☐ da attivare

Fornire ulteriori, eventuali, commenti:

L'implementazione dei Piani di Gestione dei Distretti idrografici (riguardante i bacini idrografici transfrontalieri) è un'attività:

☐ conclusa ☐ in corso ☒ da attivare

Fornire ulteriori, eventuali, commenti:

11 Quali sono gli argomenti più importanti che desidereresti approfondire, in merito alla gestione dei sistemi di approvvigionamento e delle risorse idriche con carattere transfrontaliero/regionale?

Consideri utile questo tipo di eventi (workshop/tavole rotonde)?

☒ SI ☐ NO ☐ Indifferente

Ulteriori commenti:



Networking for Drinking Water Supply in Adriatic Region



QUESTIONARIO: SISTEMI DI APPROVVIGIONAMENTO TRANSFRONTALIERI E DI RILEVANZA REGIONALE E GESTIONE DELLE RISORSE IDRICHE

L'attività di Capitalizzazione e Sostenibilità dei risultati è una componente essenziale del progetto stesso, utile a comporre un quadro d'unione per lo scambio di informazioni rilevanti e significative in relazione ai sistemi di approvvigionamento transfrontalieri o di rilevanza regionale tra portatori di interesse, autorità, istituti di ricerca, ecc.

I contributi raccolti in occasione dei workshop nazionali forniscono input importanti e concorrono alla corretta attuazione del Progetto DRINKADRIA.

Nome:	FEDERICA
Cognome:	GABRIELLO
Ente/Organizzazione: (non compilare questa sezione se si preferisce rimanere anonimi)	

1 Tipo di Ente/Organizzazione di appartenenza:

☐ Azienda di servizi (s.i.i.) ☐ Autorità: ☐ locale ☒ regionale ☐ nazionale
☐ Istituto di ricerca ☐ Associazione ☐ Altro (specificare):

2 La Vostra attività riguarda principalmente:

☐ approvvigionamento idrico ☒ protezione delle risorse idriche ☐ educazione/ricerca
☐ cooperazione internazionale ☐ aspetti finanziari/legali ☐ altro (specificare):

3 Quale scala spaziale rappresenta meglio il Vostro ambito di competenza e attività?
(Assegnare una stima in percentuale, in modo che il totale sia 100%
Esempio: locale -55%, nazionale -25%, altro - 20%)

locale _ % regionale 10 % nazionale _ % internazionale _ % altro (specificare): _____, _ %

4 Quali sono attualmente le questioni e i problemi principali nella gestione dell'approvvigionamento idrico?
(Fornire una classificazione: 1 = più significativo, 5 = meno significativo; è possibile assegnare lo stesso valore ad un massimo di due questioni/problemi)

☒ Perdite ☒ Disponibilità della risorsa ☒ Qualità ☒ Tariffe idriche
☒ Quadro legislativo e regolatorio ☒ Mancanza di fondi ☒ Infrastrutture
☐ Capacità: ☒ istituzionali ☐ tecniche ☐ umane
☐ Cambiamenti climatici ☐ Scarsa cooperazione ☐ Altro (specificare):

Fornire una classificazione dei seguenti argomenti, in relazione alle questioni/problemi di cui sopra:
(Fornire una classificazione: 1 =più significativo, 5= meno significativo; è possibile assegnare lo stesso valore ad un massimo di due voci)

PERDITE

- ☒ consumi non autorizzati ☒ errori di misura ☒ perdite nelle reti di distribuzione
☒ perdite dagli impianti ☐ altro (specificare): _____

DISPONIBILITA' DELLA RISORSA

- ☒ incremento della domanda ☒ fluttuazioni stagionali ☒ capacità di stoccaggio
☒ cambiamenti nelle pratiche di uso del suolo ☒ elevati consumi relativi ad altri settori (agricoli, industriali, ecc.)
☒ cambiamenti climatici ☐ altro (specificare): _____

QUALITA'

- ☒ inquinamento da fonti puntuali ☒ inquinamento da fonti diffuse ☒ protezione delle fonti
☒ cambiamenti nelle pratiche di uso del suolo ☒ fluttuazioni stagionali ☒ cambiamenti climatici
☐ altro (specificare): _____

VINCOLI DEL SISTEMA DI DISTRIBUZIONE IDRICA

- ☐ rete inadeguata ☐ capacità delle stazioni di pompaggio ☐ carenze dei serbatoi
☐ scarsa manutenzione del sistema di distribuzione idrica ☐ vetustà delle infrastrutture
☐ altro (specificare): _____

Quali sono i principali vincoli che condizioneranno la gestione dell'approvvigionamento idrico nel prossimo futuro (nei prossimi 25-30 anni)?

(Fornire una classificazione: 1 =più significativo, 5= meno significativo; è possibile assegnare lo stesso valore ad un massimo di due voci)

- ☐ Perdite ☒ Disponibilità della risorsa ☐ Qualità ☐ Tariffe idriche
☐ Quadro legislativo e regolatorio ☒ Mancanza di fondi ☒ Infrastrutture
☐ Capacità: ☐ istituzionali ☐ tecniche ☐ umane
☒ Cambiamenti climatici ☐ Scarsa cooperazione ☐ Altro (specificare): _____

Quali sono i passi più importanti e le attività che potrebbero migliorare l'approvvigionamento idrico in termini di questioni e vincoli di cui sopra?

Alcune questioni trasversali potrebbero essere risolte attraverso:

(Fornire una classificazione: 1 =più significativo, 5= meno significativo; è possibile assegnare lo stesso valore ad un massimo di due voci)

6	<input checked="" type="checkbox"/> Politiche integrate, che affrontino la maggior parte delle questioni <input checked="" type="checkbox"/> Politiche separate, rivolte singolarmente alla maggior parte delle questioni <input checked="" type="checkbox"/> Una migliore cooperazione tra i diversi settori <input checked="" type="checkbox"/> Una migliore cooperazione tra autorità locali e nazionali <input checked="" type="checkbox"/> Maggiori risorse finanziarie <input checked="" type="checkbox"/> Le tariffe idriche <input type="checkbox"/> Altro (specificare):
7	Elencare i 3 attori ovvero le 3 azioni più significative nell'ottica del miglioramento della gestione dell'approvvigionamento e delle risorse idriche:
8	Quali sono le azioni che il tuo Ente/Organizzazione di appartenenza potrebbe adottare per migliorare la gestione dell'approvvigionamento e delle risorse idriche e contribuire alla sua sostenibilità?
9	Ritieni che solo azioni a livello statale possano contribuire a migliorare l'approvvigionamento idrico? <input type="checkbox"/> SI <input type="checkbox"/> NO Se la risposta è NO, elencare altri livelli istituzionali di rilievo:
	Il tuo grado di conoscenza/familiarità con il ruolo e le attività delle Commissioni Bilaterali di rilevanza sul tema della gestione dell'approvvigionamento e delle risorse idriche con carattere transfrontaliero/regionale può essere definito: <input type="checkbox"/> Completo <input type="checkbox"/> Discreto <input checked="" type="checkbox"/> Insufficiente
	Il tuo grado di conoscenza/familiarità con il ruolo e le attività delle Autorità locali di rilevanza sul tema dell'approvvigionamento idrico con carattere transfrontaliero/regionale può essere definito: <input type="checkbox"/> Completo <input checked="" type="checkbox"/> Discreto <input type="checkbox"/> Insufficiente
	Esistono, nel tuo paese/regione, norme quadro (trattati, accordi, protocolli di intesa, ecc.) significativi in relazione alla gestione di sistemi di approvvigionamento e risorse con carattere transfrontaliero/regionale di cui sei a conoscenza: <input type="checkbox"/> SI <input type="checkbox"/> NO Se la risposta è SI, riportarne gli estremi:

10

<p>Il tuo grado di familiarità con vincoli e questioni inerenti le risorse idriche con carattere transfrontaliero/regionale può essere definito:</p> <p><input type="checkbox"/> Completo <input type="checkbox"/> Discreto <input type="checkbox"/> Insufficiente</p> <p>Fornire ulteriori, eventuali, commenti:</p>
<p>L'implementazione dei Piani di Gestione dei Distretti idrografici, a livello nazionale, è un'attività:</p> <p><input type="checkbox"/> conclusa <input checked="" type="checkbox"/> in corso <input type="checkbox"/> da attivare</p> <p>Fornire ulteriori, eventuali, commenti:</p>
<p>L'implementazione dei Piani di Gestione dei Distretti idrografici (riguardante i bacini idrografici transfrontalieri) è un'attività:</p> <p><input type="checkbox"/> conclusa <input type="checkbox"/> in corso <input type="checkbox"/> da attivare</p> <p>Fornire ulteriori, eventuali, commenti:</p>
<p>Quali sono gli argomenti più importanti che desidereresti approfondire, in merito alla gestione dei sistemi di approvvigionamento e delle risorse idriche con carattere transfrontaliero/regionale?</p>
<p>Consideri utile questo tipo di eventi (workshop/tavole rotonde)?</p> <p><input checked="" type="checkbox"/> SI <input type="checkbox"/> NO <input type="checkbox"/> Indifferente</p>
<p>Ulteriori commenti:</p>

M

QUESTIONARIO: SISTEMI DI APPROVVIGIONAMENTO TRANSFRONTALIERI E DI RILEVANZA REGIONALE E GESTIONE DELLE RISORSE IDRICHE

L'attività di Capitalizzazione e Sostenibilità dei risultati è una componente essenziale del progetto stesso, utile a comporre un quadro d'unione per lo scambio di informazioni rilevanti e significative in relazione ai sistemi di approvvigionamento transfrontalieri o di rilevanza regionale tra portatori di interesse, autorità, istituti di ricerca, ecc.

I contributi raccolti in occasione dei workshop nazionali forniscono input importanti e concorrono alla corretta attuazione del Progetto DRINKADRIA.

Nome:	ADRIANO
Cognome:	DUCA
Ente/Organizzazione: (non compilare questa sezione se si preferisce rimanere anonimi)	REGIONE MARCHE
<p>1 Tipo di Ente/Organizzazione di appartenenza:</p> <p> <input type="checkbox"/> Azienda di servizi (s.i.i.) <input type="checkbox"/> Autorità: <input type="checkbox"/> locale <input checked="" type="checkbox"/> regionale <input type="checkbox"/> nazionale <input type="checkbox"/> Istituto di ricerca <input type="checkbox"/> Associazione <input type="checkbox"/> Altro (specificare): </p>	
<p>2 La Vostra attività riguarda principalmente:</p> <p> <input checked="" type="checkbox"/> approvvigionamento idrico <input type="checkbox"/> protezione delle risorse idriche <input type="checkbox"/> educazione/ricerca <input type="checkbox"/> cooperazione internazionale <input type="checkbox"/> aspetti finanziari/legali <input type="checkbox"/> altro (specificare): </p>	
<p>3 Quale scala spaziale rappresenta meglio il Vostro ambito di competenza e attività? (Assegnare una stima in percentuale, in modo che il totale sia 100%) Esempio: locale -55%. nazionale -25%, altro - 20%)</p> <p> locale <u> 100 </u>% regionale <u> 0 </u>% nazionale <u> 0 </u>% internazionale <u> 0 </u>% altro (specificare): <u> 0 </u>%, <u> 0 </u>% </p>	
<p>4 Quali sono attualmente le questioni e i problemi principali nella gestione dell'approvvigionamento idrico? (Fornire una classificazione: 1 = più significativo, 5 = meno significativo; è possibile assegnare lo stesso valore ad un massimo di due questioni/problemi)</p> <p> <input checked="" type="checkbox"/> Perdite <input checked="" type="checkbox"/> Disponibilità della risorsa <input checked="" type="checkbox"/> Qualità <input checked="" type="checkbox"/> Tariffe idriche <input checked="" type="checkbox"/> Quadro legislativo e regolatorio <input checked="" type="checkbox"/> Mancanza di fondi <input checked="" type="checkbox"/> Infrastrutture <input checked="" type="checkbox"/> Capacità: <input checked="" type="checkbox"/> istituzionali <input checked="" type="checkbox"/> tecniche <input checked="" type="checkbox"/> umane <input checked="" type="checkbox"/> Cambiamenti climatici <input checked="" type="checkbox"/> Scarsa cooperazione <input type="checkbox"/> Altro (specificare): </p>	

Fornire una classificazione dei seguenti argomenti, in relazione alle questioni/problemi di cui sopra:
(Fornire una classificazione: 1 =più significativo, 5= meno significativo; è possibile assegnare lo stesso valore ad un massimo di due voci)

PERDITE

- ☒ consumi non autorizzati ☒ errori di misura ☒ perdite nelle reti di distribuzione
☒ perdite dagli impianti ☒ altro (specificare): _____

DISPONIBILITA' DELLA RISORSA

- ☒ incremento della domanda ☒ fluttuazioni stagionali ☒ capacità di stoccaggio
☒ cambiamenti nelle pratiche di uso del suolo ☒ elevati consumi relativi ad altri settori (agricoli, industriali, ecc.)
☒ cambiamenti climatici ☒ altro (specificare): _____

QUALITA'

- ☒ inquinamento da fonti puntuali ☒ inquinamento da fonti diffuse ☒ protezione delle fonti
☒ cambiamenti nelle pratiche di uso del suolo ☒ fluttuazioni stagionali ☒ cambiamenti climatici
☒ altro (specificare): _____

VINCOLI DEL SISTEMA DI DISTRIBUZIONE IDRICA

- ☒ rete inadeguata ☒ capacità delle stazioni di pompaggio ☒ carenze dei serbatoi
☒ scarsa manutenzione del sistema di distribuzione idrica ☒ vetustà delle infrastrutture
☒ altro (specificare): _____

Quali sono i principali vincoli che condizioneranno la gestione dell'approvvigionamento idrico nel prossimo futuro (nei prossimi 25-30 anni)?
(Fornire una classificazione: 1 =più significativo, 5= meno significativo; è possibile assegnare lo stesso valore ad un massimo di due voci)

- ☒ Perdite ☒ Disponibilità della risorsa ☒ Qualità ☒ Tariffe idriche
☒ Quadro legislativo e regolatorio ☒ Mancanza di fondi ☒ Infrastrutture
☒ Capacità: ☐ istituzionali ☐ tecniche ☐ umane
☒ Cambiamenti climatici ☒ Scarsa cooperazione ☒ Altro (specificare): _____

Quali sono i passi più importanti e le attività che potrebbero migliorare l'approvvigionamento idrico in termini di questioni e vincoli di cui sopra?

Alcune questioni trasversali potrebbero essere risolte attraverso:

(Fornire una classificazione: 1 =più significativo, 5= meno significativo; è possibile assegnare lo stesso valore ad un massimo di due voci)

6	<input checked="" type="checkbox"/> Politiche integrate, che affrontino la maggior parte delle questioni <input checked="" type="checkbox"/> Politiche separate, rivolte singolarmente alla maggior parte delle questioni <input checked="" type="checkbox"/> Una migliore cooperazione tra i diversi settori <input checked="" type="checkbox"/> Una migliore cooperazione tra autorità locali e nazionali <input checked="" type="checkbox"/> Maggiori risorse finanziarie <input type="checkbox"/> Le tariffe idriche <input type="checkbox"/> Altro (specificare):
7	Elencare i 3 attori ovvero le 3 azioni più significative nell'ottica del miglioramento della gestione dell'approvvigionamento e delle risorse idriche: DISPONIBILITÀ RISPARMIO INVASI
8	Quali sono le azioni che il tuo Ente/Organizzazione di appartenenza potrebbe adottare per migliorare la gestione dell'approvvigionamento e delle risorse idriche e contribuire alla sua sostenibilità?
9	Ritieni che solo azioni a livello statale possano contribuire a migliorare l'approvvigionamento idrico? <input type="checkbox"/> SI <input checked="" type="checkbox"/> NO Se la risposta è NO, elencare altri livelli istituzionali di rilievo: DECISIONE ACQUA
	Il tuo grado di conoscenza/familiarità con il ruolo e le attività delle Commissioni Bilaterali di rilevanza sul tema della gestione dell'approvvigionamento e delle risorse idriche con carattere transfrontaliero/regionale può essere definito: <input type="checkbox"/> Completo <input checked="" type="checkbox"/> Discreto <input type="checkbox"/> Insufficiente
	Il tuo grado di conoscenza/familiarità con il ruolo e le attività delle Autorità locali di rilevanza sul tema dell'approvvigionamento idrico con carattere transfrontaliero/regionale può essere definito: <input type="checkbox"/> Completo <input type="checkbox"/> Discreto <input checked="" type="checkbox"/> Insufficiente
	Esistono, nel tuo paese/regione, norme quadro (trattati, accordi, protocolli di intesa, ecc.) significativi in relazione alla gestione di sistemi di approvvigionamento e risorse con carattere transfrontaliero/regionale di cui sei a conoscenza: <input type="checkbox"/> SI <input checked="" type="checkbox"/> NO Se la risposta è SI, riportarne gli estremi:

<p>10 Il tuo grado di familiarità con vincoli e questioni inerenti le risorse idriche con carattere transfrontaliero/regionale può essere definito:</p> <p><input type="checkbox"/> Completo <input checked="" type="checkbox"/> Discreto <input type="checkbox"/> Insufficiente</p> <p>Fornire ulteriori, eventuali, commenti:</p>
<p>L'implementazione dei Piani di Gestione dei Distretti idrografici, a livello nazionale, è un'attività:</p> <p><input type="checkbox"/> conclusa <input checked="" type="checkbox"/> in corso <input type="checkbox"/> da attivare</p> <p>Fornire ulteriori, eventuali, commenti:</p>
<p>L'implementazione dei Piani di Gestione dei Distretti idrografici (riguardante i bacini idrografici transfrontalieri) è un'attività:</p> <p><input type="checkbox"/> conclusa <input checked="" type="checkbox"/> in corso <input type="checkbox"/> da attivare</p> <p>Fornire ulteriori, eventuali, commenti:</p>
<p>11 Quali sono gli argomenti più importanti che desidereresti approfondire, in merito alla gestione dei sistemi di approvvigionamento e delle risorse idriche con carattere transfrontaliero/regionale?</p>
<p>Consideri utile questo tipo di eventi (workshop/tavole rotonde)?</p> <p><input checked="" type="checkbox"/> SI <input type="checkbox"/> NO <input type="checkbox"/> Indifferente</p>
<p>Ulteriori commenti:</p>

QUESTIONARIO: SISTEMI DI APPROVVIGIONAMENTO TRANSFRONTALIERI E DI RILEVANZA REGIONALE E GESTIONE DELLE RISORSE IDRICHE

L'attività di Capitalizzazione e Sostenibilità dei risultati è una componente essenziale del progetto stesso, utile a comporre un quadro d'unione per lo scambio di informazioni rilevanti e significative in relazione ai sistemi di approvvigionamento transfrontalieri o di rilevanza regionale tra portatori di interesse, autorità, istituti di ricerca, ecc.

I contributi raccolti in occasione dei workshop nazionali forniscono input importanti e concorrono alla corretta attuazione del Progetto DRINKADRIA.

Nome:	LUIGI
Cognome:	BOLLOMANNI
Ente/Organizzazione: (non compilare questa sezione se si preferisce rimanere anonimi)	REGIONE EMILIA
Tipo di Ente/Organizzazione di appartenenza: <input type="checkbox"/> Azienda di servizi (s.i.i.) <input type="checkbox"/> Autorità: <input type="checkbox"/> locale <input checked="" type="checkbox"/> regionale <input type="checkbox"/> nazionale <input type="checkbox"/> Istituto di ricerca <input type="checkbox"/> Associazione <input type="checkbox"/> Altro (specificare):	
La Vostra attività riguarda principalmente: <input type="checkbox"/> approvvigionamento idrico <input checked="" type="checkbox"/> protezione delle risorse idriche <input type="checkbox"/> educazione/ricerca <input type="checkbox"/> cooperazione internazionale <input type="checkbox"/> aspetti finanziari/legali <input type="checkbox"/> altro (specificare):	
Quale scala spaziale rappresenta meglio il Vostro ambito di competenza e attività? (Assegnare una stima in percentuale, in modo che il totale sia 100%) Esempio: locale -55%. nazionale -25%, altro - 20%) locale __% regionale ¹⁰⁰ __% nazionale __% internazionale __% altro (specificare): ____, __%	
Quali sono attualmente le questioni e i problemi principali nella gestione dell'approvvigionamento idrico? (Fornire una classificazione: 1 = più significativo, 5 = meno significativo; è possibile assegnare lo stesso valore ad un massimo di due questioni/problemi) <input checked="" type="checkbox"/> Perdite <input checked="" type="checkbox"/> Disponibilità della risorsa <input checked="" type="checkbox"/> Qualità <input checked="" type="checkbox"/> Tariffe idriche <input checked="" type="checkbox"/> Quadro legislativo e regolatorio <input checked="" type="checkbox"/> Mancanza di fondi <input checked="" type="checkbox"/> Infrastrutture <input checked="" type="checkbox"/> Capacità: <input type="checkbox"/> istituzionali <input checked="" type="checkbox"/> tecniche <input type="checkbox"/> umane <input checked="" type="checkbox"/> Cambiamenti climatici <input type="checkbox"/> Scarsa cooperazione <input type="checkbox"/> Altro (specificare):	

Fornire una classificazione dei seguenti argomenti, in relazione alle questioni/problemi di cui sopra:
(Fornire una classificazione: 1 =più significativo, 5= meno significativo; è possibile assegnare lo stesso valore ad un massimo di due voci)

PERDITE

- 1 ☒ consumi non autorizzati 2 ☒ errori di misura 1 ☒ perdite nelle reti di distribuzione
1 ☒ perdite dagli impianti ☐ altro (specificare): _____

DISPONIBILITA' DELLA RISORSA

- 1 ☒ incremento della domanda 1 ☒ fluttuazioni stagionali 1 ☒ capacità di stoccaggio
3 ☐ cambiamenti nelle pratiche di uso del suolo 2 ☒ elevati consumi relativi ad altri settori (agricoli, industriali, ecc.)
2 ☒ cambiamenti climatici ☐ altro (specificare): _____

QUALITA'

- 3 ☐ inquinamento da fonti puntuali 1 ☐ inquinamento da fonti diffuse 2 ☐ protezione delle fonti
3 ☐ cambiamenti nelle pratiche di uso del suolo 3 ☐ fluttuazioni stagionali 3 ☐ cambiamenti climatici
3 ☐ altro (specificare): _____

VINCOLI DEL SISTEMA DI DISTRIBUZIONE IDRICA

- 3 ☐ rete inadeguata 1 ☐ capacità delle stazioni di pompaggio 1 ☐ carenze dei serbatoi
3 ☐ scarsa manutenzione del sistema di distribuzione idrica 1 ☐ vetustà delle infrastrutture
3 ☐ altro (specificare): _____

Quali sono i principali vincoli che condizioneranno la gestione dell'approvvigionamento idrico nel prossimo futuro (nei prossimi 25-30 anni)?

(Fornire una classificazione: 1 =più significativo, 5= meno significativo; è possibile assegnare lo stesso valore ad un massimo di due voci)

- 1 ☐ Perdite 3 ☐ Disponibilità della risorsa 3 ☐ Qualità 3 ☐ Tariffe idriche
2 ☐ Quadro legislativo e regolatorio 2 ☐ Mancanza di fondi 2 ☐ Infrastrutture
2 ☐ Capacità: ☐ istituzionali, ☒ tecniche ☐ umane
3 ☐ Cambiamenti climatici ☐ Scarsa cooperazione ☐ Altro (specificare): _____

Quali sono i passi più importanti e le attività che potrebbero migliorare l'approvvigionamento idrico in termini di questioni e vincoli di cui sopra?

Alcune questioni trasversali potrebbero essere risolte attraverso:

(Fornire una classificazione: 1 =più significativo, 5= meno significativo; è possibile assegnare lo stesso valore ad un massimo di due voci)

6	<input type="checkbox"/> Politiche integrate, che affrontino la maggior parte delle questioni 2 <input type="checkbox"/> Politiche separate, rivolte singolarmente alla maggior parte delle questioni 3 <input type="checkbox"/> Una migliore cooperazione tra i diversi settori 3 <input type="checkbox"/> Una migliore cooperazione tra autorità locali e nazionali 2 <input type="checkbox"/> Maggiori risorse finanziarie 2 <input type="checkbox"/> Le tariffe idriche 3 <input type="checkbox"/> Altro (specificare):
7	Elencare i 3 attori ovvero le 3 azioni più significative nell'ottica del miglioramento della gestione dell'approvvigionamento e delle risorse idriche:
8	Quali sono le azioni che il tuo Ente/Organizzazione di appartenenza potrebbe adottare per migliorare la gestione dell'approvvigionamento e delle risorse idriche e contribuire alla sua sostenibilità? PIANIFICATORE - CONTROLLO
9	Ritieni che solo azioni a livello statale possano contribuire a migliorare l'approvvigionamento idrico? <input type="checkbox"/> SI <input checked="" type="checkbox"/> NO Se la risposta è NO, elencare altri livelli istituzionali di rilievo:
	Il tuo grado di conoscenza/familiarità con il ruolo e le attività delle Commissioni Bilaterali di rilevanza sul tema della gestione dell'approvvigionamento e delle risorse idriche con carattere transfrontaliero/regionale può essere definito: <input type="checkbox"/> Completo <input checked="" type="checkbox"/> Discreto <input type="checkbox"/> Insufficiente
	Il tuo grado di conoscenza/familiarità con il ruolo e le attività delle Autorità locali di rilevanza sul tema dell'approvvigionamento idrico con carattere transfrontaliero/regionale può essere definito: <input type="checkbox"/> Completo <input checked="" type="checkbox"/> Discreto <input type="checkbox"/> Insufficiente
	Esistono, nel tuo paese/regione, norme quadro (trattati, accordi, protocolli di intesa, ecc.) significativi in relazione alla gestione di sistemi di approvvigionamento e risorse con carattere transfrontaliero/regionale di cui sei a conoscenza: <input checked="" type="checkbox"/> SI <input type="checkbox"/> NO Se la risposta è SI, riportarne gli estremi:

10 Il tuo grado di familiarità con vincoli e questioni inerenti le risorse idriche con carattere transfrontaliero/regionale può essere definito:

☐ Completo ☒ Discreto ☐ Insufficiente

Fornire ulteriori, eventuali, commenti:

L'implementazione dei Piani di Gestione dei Distretti idrografici, a livello nazionale, è un'attività:

☐ conclusa ☒ in corso ☐ da attivare

Fornire ulteriori, eventuali, commenti:

L'implementazione dei Piani di Gestione dei Distretti idrografici (riguardante i bacini idrografici transfrontalieri) è un'attività:

☐ conclusa ☒ in corso ☐ da attivare

Fornire ulteriori, eventuali, commenti:

11 Quali sono gli argomenti più importanti che desidereresti approfondire, in merito alla gestione dei sistemi di approvvigionamento e delle risorse idriche con carattere transfrontaliero/regionale?

Consideri utile questo tipo di eventi (workshop/tavole rotonde)?

☒ SI ☐ NO ☐ Indifferente

Ulteriori commenti:

QUESTIONARIO: SISTEMI DI APPROVVIGIONAMENTO TRANSFRONTALIERI E DI RILEVANZA REGIONALE E GESTIONE DELLE RISORSE IDRICHE

L'attività di Capitalizzazione e Sostenibilità dei risultati è una componente essenziale del progetto stesso, utile a comporre un quadro d'unione per lo scambio di informazioni rilevanti e significative in relazione ai sistemi di approvvigionamento transfrontalieri o di rilevanza regionale tra portatori di interesse, autorità, istituti di ricerca, ecc.

I contributi raccolti in occasione dei workshop nazionali forniscono input importanti e concorrono alla corretta attuazione del Progetto DRINKADRIA.

Nome:	
Cognome:	
Ente/Organizzazione:	
(non compilare questa sezione se si preferisce rimanere anonimi)	
Tipo di Ente/Organizzazione di appartenenza:	
<input checked="" type="checkbox"/> Azienda di servizi (s.i.i.) <input type="checkbox"/> Autorità: <input type="checkbox"/> locale <input type="checkbox"/> regionale <input type="checkbox"/> nazionale <input type="checkbox"/> Istituto di ricerca <input type="checkbox"/> Associazione <input type="checkbox"/> Altro (specificare):	
La Vostra attività riguarda principalmente:	
<input checked="" type="checkbox"/> ^{DISTRIBUZIONE} approvvigionamento idrico <input type="checkbox"/> protezione delle risorse idriche <input type="checkbox"/> educazione/ricerca <input type="checkbox"/> cooperazione internazionale <input type="checkbox"/> aspetti finanziari/legali <input type="checkbox"/> altro (specificare):	
Quale scala spaziale rappresenta meglio il Vostro ambito di competenza e attività? (Assegnare una stima in percentuale, in modo che il totale sia 100% Esempio: locale -55%, nazionale -25%, altro - 20%)	
locale <u>100</u> % regionale __% nazionale __% internazionale __% altro (specificare): ____, __%	
Quali sono attualmente le questioni e i problemi principali nella gestione dell'approvvigionamento idrico? (Fornire una classificazione: 1 = più significativo, 5 = meno significativo; è possibile assegnare lo stesso valore ad un massimo di due questioni/problemi)	
<input checked="" type="checkbox"/> Perdite <input checked="" type="checkbox"/> Disponibilità della risorsa <input checked="" type="checkbox"/> Qualità ³ <input type="checkbox"/> Tariffe idriche <input type="checkbox"/> Quadro legislativo e regolatorio <input checked="" type="checkbox"/> Mancanza di fondi <input checked="" type="checkbox"/> Infrastrutture <input type="checkbox"/> Capacità: <input type="checkbox"/> istituzionali <input type="checkbox"/> tecniche <input type="checkbox"/> umane <input type="checkbox"/> Cambiamenti climatici <input type="checkbox"/> Scarsa cooperazione <input type="checkbox"/> Altro (specificare):	

Fornire una classificazione dei seguenti argomenti, in relazione alle questioni/problemi di cui sopra:
(Fornire una classificazione: 1 =più significativo, 5= meno significativo; è possibile assegnare lo stesso valore ad un massimo di due voci)

PERDITE

- 5 ☐ consumi non autorizzati 3 ☒ errori di misura 4 ☒ perdite nelle reti di distribuzione
4 ☒ perdite dagli impianti *PRIVATI* ☐ altro (specificare): _____

DISPONIBILITA' DELLA RISORSA

- 5 ☐ incremento della domanda 3 ☐ fluttuazioni stagionali 4 ☒ capacità di stoccaggio
2 ☐ cambiamenti nelle pratiche di uso del suolo 5 ☐ elevati consumi relativi ad altri settori (agricoli, industriali, ecc.)
4 ☐ cambiamenti climatici ☐ altro (specificare): _____

QUALITA'

- 4 ☐ inquinamento da fonti puntuali 4 ☐ inquinamento da fonti diffuse 2 ☐ protezione delle fonti
4 ☐ cambiamenti nelle pratiche di uso del suolo 3 ☐ fluttuazioni stagionali ☐ cambiamenti climatici
4 ☐ altro (specificare): _____

VINCOLI DEL SISTEMA DI DISTRIBUZIONE IDRICA

- 4 ☐ rete inadeguata 3 ☐ capacità delle stazioni di pompaggio 2 ☐ carenze dei serbatoi
3 ☐ scarsa manutenzione del sistema di distribuzione idrica 2 ☐ vetustà delle infrastrutture
4 ☐ altro (specificare): _____

Quali sono i principali vincoli che condizioneranno la gestione dell'approvvigionamento idrico nel prossimo futuro (nei prossimi 25-30 anni)?

(Fornire una classificazione: 1 =più significativo, 5= meno significativo; è possibile assegnare lo stesso valore ad un massimo di due voci)

- 4 ☒ Perdite 5 ☐ Disponibilità della risorsa 2 ☒ Qualità 2 ☐ Tariffe idriche
4 ☐ Quadro legislativo e regolatorio 4 ☐ Mancanza di fondi 3 ☐ Infrastrutture
4 ☐ Capacità: ☐ istituzionali ☐ tecniche ☐ umane
5 ☐ Cambiamenti climatici 4 ☐ Scarsa cooperazione ☐ Altro (specificare): _____

Quali sono i passi più importanti e le attività che potrebbero migliorare l'approvvigionamento idrico in termini di questioni e vincoli di cui sopra?

Alcune questioni trasversali potrebbero essere risolte attraverso:

(Fornire una classificazione: 1 =più significativo, 5= meno significativo; è possibile assegnare lo stesso valore ad un massimo di due voci)

5	<input type="checkbox"/> Politiche integrate, che affrontino la maggior parte delle questioni
3	<input type="checkbox"/> Politiche separate, rivolte singolarmente alla maggior parte delle questioni
6	2 <input type="checkbox"/> Una migliore cooperazione tra i diversi settori
2	2 <input type="checkbox"/> Una migliore cooperazione tra autorità locali e nazionali
1	1 <input checked="" type="checkbox"/> Maggiori risorse finanziarie <i>ACCESSO AI FINANZIAMENTI</i>
5	<input type="checkbox"/> Le tariffe idriche
	<input type="checkbox"/> Altro (specificare):
7	<p>Elencare i 3 attori ovvero le 3 azioni più significative nell'ottica del miglioramento della gestione dell'approvvigionamento e delle risorse idriche:</p> <p>- QUADRO NORMATIVO NUOVO E CHIARO PER OTTENERE EFFICACIA E TEMPERATIVITÀ OPERATIVA - - AGEVOLARE ACCESSO AI FINANZIAMENTI - LIMITARE INGERENZE NELLE GESTIONI</p>
8	<p>Quali sono le azioni che il tuo Ente/Organizzazione di appartenenza potrebbe adottare per migliorare la gestione dell'approvvigionamento e delle risorse idriche e contribuire alla sua sostenibilità?</p>
9	<p>Ritieni che solo azioni a livello statale possano contribuire a migliorare l'approvvigionamento idrico?</p> <p><input type="checkbox"/> SI <input checked="" type="checkbox"/> NO</p> <p>Se la risposta è NO, elencare altri livelli istituzionali di rilievo:</p>
	<p>Il tuo grado di conoscenza/familiarità con il ruolo e le attività delle Commissioni Bilaterali di rilevanza sul tema della gestione dell'approvvigionamento e delle risorse idriche con carattere transfrontaliero/regionale può essere definito:</p> <p><input type="checkbox"/> Completo <input checked="" type="checkbox"/> Discreto <input type="checkbox"/> Insufficiente</p>
	<p>Il tuo grado di conoscenza/familiarità con il ruolo e le attività delle Autorità locali di rilevanza sul tema dell'approvvigionamento idrico con carattere transfrontaliero/regionale può essere definito:</p> <p><input checked="" type="checkbox"/> Completo <input checked="" type="checkbox"/> Discreto <input type="checkbox"/> Insufficiente</p>
	<p>Esistono, nel tuo paese/regione, norme quadro (trattati, accordi, protocolli di intesa, ecc.) significativi in relazione alla gestione di sistemi di approvvigionamento e risorse con carattere transfrontaliero/regionale di cui sei a conoscenza:</p> <p><input type="checkbox"/> SI <input type="checkbox"/> NO</p> <p>Se la risposta è SI, riportarne gli estremi:</p>

10 Il tuo grado di familiarità con vincoli e questioni inerenti le risorse idriche con carattere transfrontaliero/regionale può essere definito:

☐ Completo ☒ Discreto ☐ Insufficiente

Fornire ulteriori, eventuali, commenti:

L'implementazione dei Piani di Gestione dei Distretti idrografici, a livello nazionale, è un'attività:

☐ conclusa ☒ in corso ☐ da attivare

Fornire ulteriori, eventuali, commenti:

L'implementazione dei Piani di Gestione dei Distretti idrografici (riguardante i bacini idrografici transfrontalieri) è un'attività:

☐ conclusa ☒ in corso ☐ da attivare

Fornire ulteriori, eventuali, commenti:

11 Quali sono gli argomenti più importanti che desidereresti approfondire, in merito alla gestione dei sistemi di approvvigionamento e delle risorse idriche con carattere transfrontaliero/regionale?

Consideri utile questo tipo di eventi (workshop/tavole rotonde)?

☒ SI ☐ NO ☐ Indifferente

Ulteriori commenti:

QUESTIONARIO: SISTEMI DI APPROVVIGIONAMENTO TRANSFRONTALIERI E DI RILEVANZA REGIONALE E GESTIONE DELLE RISORSE IDRICHE

L'attività di Capitalizzazione e Sostenibilità dei risultati è una componente essenziale del progetto stesso, utile a comporre un quadro d'unione per lo scambio di informazioni rilevanti e significative in relazione ai sistemi di approvvigionamento transfrontalieri o di rilevanza regionale tra portatori di interesse, autorità, istituti di ricerca, ecc.

I contributi raccolti in occasione dei workshop nazionali forniscono input importanti e concorrono alla corretta attuazione del Progetto DRINKADRIA.

Nome:	
Cognome:	
Ente/Organizzazione:	
(non compilare questa sezione se si preferisce rimanere anonimi)	
<p>1 Tipo di Ente/Organizzazione di appartenenza:</p> <p><input checked="" type="checkbox"/> Azienda di servizi (s.i.i.) <input type="checkbox"/> Autorità: <input type="checkbox"/> locale <input type="checkbox"/> regionale <input type="checkbox"/> nazionale</p> <p><input type="checkbox"/> Istituto di ricerca <input type="checkbox"/> Associazione <input type="checkbox"/> Altro (specificare):</p>	
<p>2 La Vostra attività riguarda principalmente:</p> <p><input type="checkbox"/> approvvigionamento idrico <input type="checkbox"/> protezione delle risorse idriche <input type="checkbox"/> educazione/ricerca</p> <p><input type="checkbox"/> cooperazione internazionale <input type="checkbox"/> aspetti finanziari/legali <input checked="" type="checkbox"/> altro (specificare): <i>DESRI BIR. ONO</i></p>	
<p>3 Quale scala spaziale rappresenta meglio il Vostro ambito di competenza e attività?</p> <p>(Assegnare una stima in percentuale, in modo che il totale sia 100%)</p> <p>Esempio: locale -55%. nazionale -25%, altro - 20%)</p> <p>locale <i>100</i> % regionale __ % nazionale __ % internazionale __ % altro (specificare): __, __ %</p>	
<p>4 Quali sono attualmente le questioni e i problemi principali nella gestione dell'approvvigionamento idrico?</p> <p>(Fornire una classificazione: 1 = più significativo, 5 = meno significativo; è possibile assegnare lo stesso valore ad un massimo di due questioni/problemi)</p> <p><input checked="" type="checkbox"/> Perdite <input checked="" type="checkbox"/> Disponibilità della risorsa <input type="checkbox"/> Qualità <input type="checkbox"/> Tariffe idriche</p> <p><input type="checkbox"/> Quadro legislativo e regolatorio <input type="checkbox"/> Mancanza di fondi <input type="checkbox"/> Infrastrutture</p> <p><input type="checkbox"/> Capacità: <input type="checkbox"/> istituzionali <input type="checkbox"/> tecniche <input type="checkbox"/> umane</p> <p><input type="checkbox"/> Cambiamenti climatici <input type="checkbox"/> Scarsa cooperazione <input type="checkbox"/> Altro (specificare):</p>	

Fornire una classificazione dei seguenti argomenti, in relazione alle questioni/problemi di cui sopra:
(Fornire una classificazione: 1 =più significativo, 5= meno significativo; è possibile assegnare lo stesso valore ad un massimo di due voci)

PERDITE

- ☒ 2 consumi non autorizzati ☒ 4 errori di misura ☒ 4 perdite nelle reti di distribuzione
☒ 2 perdite dagli impianti ☐ altro (specificare): _____

DISPONIBILITA' DELLA RISORSA

- ☒ 4 incremento della domanda ☒ 2 fluttuazioni stagionali ☒ 5 capacità di stoccaggio
☒ 2 cambiamenti nelle pratiche di uso del suolo ☐ elevati consumi relativi ad altri settori (agricoli, industriali, ecc.)
☒ 1 cambiamenti climatici ☐ altro (specificare): _____

QUALITA'

- ☒ 1 inquinamento da fonti puntuali ☒ 2 inquinamento da fonti diffuse ☒ 3 protezione delle fonti
☒ 1 cambiamenti nelle pratiche di uso del suolo ☐ fluttuazioni stagionali ☐ cambiamenti climatici
☐ altro (specificare): _____

VINCOLI DEL SISTEMA DI DISTRIBUZIONE IDRICA

- ☒ 2 rete inadeguata ☒ 1 capacità delle stazioni di pompaggio ☒ 3 carenze dei serbatoi
☐ scarsa manutenzione del sistema di distribuzione idrica ☐ vetustà delle infrastrutture
☐ altro (specificare): _____

Quali sono i principali vincoli che condizioneranno la gestione dell'approvvigionamento idrico nel prossimo futuro (nei prossimi 25-30 anni)?

(Fornire una classificazione: 1 =più significativo, 5= meno significativo; è possibile assegnare lo stesso valore ad un massimo di due voci)

- ☒ 2 Perdite ☒ 1 Disponibilità della risorsa ☐ Qualità ☐ Tariffe idriche
☒ 3 Quadro legislativo e regolatorio ☐ Mancanza di fondi ☐ Infrastrutture
☐ Capacità: ☐ istituzionali ☐ tecniche ☐ umane
☐ Cambiamenti climatici ☐ Scarsa cooperazione ☐ Altro (specificare): _____

Quali sono i passi più importanti e le attività che potrebbero migliorare l'approvvigionamento idrico in termini di questioni e vincoli di cui sopra?

Alcune questioni trasversali potrebbero essere risolte attraverso:

(Fornire una classificazione: 1 =più significativo, 5= meno significativo; è possibile assegnare lo stesso valore ad un massimo di due voci)

1	<input checked="" type="checkbox"/> Politiche integrate, che affrontino la maggior parte delle questioni <input type="checkbox"/> Politiche separate, rivolte singolarmente alla maggior parte delle questioni 2 <input type="checkbox"/> Una migliore cooperazione tra i diversi settori 3 <input type="checkbox"/> Una migliore cooperazione tra autorità locali e nazionali <input type="checkbox"/> Maggiori risorse finanziarie <input type="checkbox"/> Le tariffe idriche <input type="checkbox"/> Altro (specificare):
4	Elencare i 3 attori ovvero le 3 azioni più significative nell'ottica del miglioramento della gestione dell'approvvigionamento e delle risorse idriche:
5	Quali sono le azioni che il tuo Ente/Organizzazione di appartenenza potrebbe adottare per migliorare la gestione dell'approvvigionamento e delle risorse idriche e contribuire alla sua sostenibilità?
6	Ritieni che solo azioni a livello statale possano contribuire a migliorare l'approvvigionamento idrico? <input type="checkbox"/> SI <input checked="" type="checkbox"/> NO Se la risposta è NO, elencare altri livelli istituzionali di rilievo: <i>Autoregola Bilateralmente. Colpa</i>
7	Il tuo grado di conoscenza/familiarità con il ruolo e le attività delle Commissioni Bilaterali di rilevanza sul tema della gestione dell'approvvigionamento e delle risorse idriche con carattere transfrontaliero/regionale può essere definito: <input type="checkbox"/> Completo <input type="checkbox"/> Discreto <input checked="" type="checkbox"/> Insufficiente
8	Il tuo grado di conoscenza/familiarità con il ruolo e le attività delle Autorità locali di rilevanza sul tema dell'approvvigionamento idrico con carattere transfrontaliero/regionale può essere definito: <input type="checkbox"/> Completo <input checked="" type="checkbox"/> Discreto <input type="checkbox"/> Insufficiente
9	Esistono, nel tuo paese/regione, norme quadro (trattati, accordi, protocolli di intesa, ecc.) significativi in relazione alla gestione di sistemi di approvvigionamento e risorse con carattere transfrontaliero/regionale di cui sei a conoscenza: <input type="checkbox"/> SI <input checked="" type="checkbox"/> NO Se la risposta è SI, riportarne gli estremi:

10

Il tuo grado di familiarità con vincoli e questioni inerenti le risorse idriche con carattere transfrontaliero/regionale può essere definito:

☐ Completo ☐ Discreto ☒ Insufficiente

Fornire ulteriori, eventuali, commenti:

L'implementazione dei Piani di Gestione dei Distretti idrografici, a livello nazionale, è un'attività:

☐ conclusa ☐ in corso ☐ da attivare

?

Fornire ulteriori, eventuali, commenti:

L'implementazione dei Piani di Gestione dei Distretti idrografici (riguardante i bacini idrografici transfrontalieri) è un'attività:

☐ conclusa ☐ in corso ☐ da attivare

?

Fornire ulteriori, eventuali, commenti:

11

Quali sono gli argomenti più importanti che desidereresti approfondire, in merito alla gestione dei sistemi di approvvigionamento e delle risorse idriche con carattere transfrontaliero/regionale?

Consideri utile questo tipo di eventi (workshop/tavole rotonde)?

☐ SI ☐ NO ☒ Indifferente

Ulteriori commenti:

QUESTIONARIO: SISTEMI DI APPROVVIGIONAMENTO TRANSFRONTALIERI E DI RILEVANZA REGIONALE E GESTIONE DELLE RISORSE IDRICHE

L'attività di Capitalizzazione e Sostenibilità dei risultati è una componente essenziale del progetto stesso, utile a comporre un quadro d'unione per lo scambio di informazioni rilevanti e significative in relazione ai sistemi di approvvigionamento transfrontalieri o di rilevanza regionale tra portatori di interesse, autorità, istituti di ricerca, ecc.

I contributi raccolti in occasione dei workshop nazionali forniscono input importanti e concorrono alla corretta attuazione del Progetto DRINKADRIA.

Nome:	SILVIA
Cognome:	GALASSI
Ente/Organizzazione: (non compilare questa sezione se si preferisce rimanere anonimi)	AATO 3 MARCHE

1 Tipo di Ente/Organizzazione di appartenenza:

☐ Azienda di servizi (s.i.i.) ☒ Autorità: ☒ locale ☐ regionale ☐ nazionale
☐ Istituto di ricerca ☐ Associazione ☐ Altro (specificare):

2 La Vostra attività riguarda principalmente:

☐ approvvigionamento idrico ☐ protezione delle risorse idriche ☐ educazione/ricerca
☐ cooperazione internazionale ☐ aspetti finanziari/legali ☒ altro (specificare): REGOLAZIONE SII

3 Quale scala spaziale rappresenta meglio il Vostro ambito di competenza e attività?
 (Assegnare una stima in percentuale, in modo che il totale sia 100%)
 Esempio: locale -55%, nazionale -25%, altro - 20%)

locale 10% regionale _% nazionale _% internazionale _% altro (specificare): ____, _%

4 Quali sono attualmente le questioni e i problemi principali nella gestione dell'approvvigionamento idrico?
 (Fornire una classificazione: 1 = più significativo, 5 = meno significativo; è possibile assegnare lo stesso valore ad un massimo di due questioni/problemi)

☒ Perdite 4 ☐ Disponibilità della risorsa 5 ☐ Qualità 3 ☐ Tariffe idriche
☐ Quadro legislativo e regolatorio ☒ Mancanza di fondi ☒ Infrastrutture
☒ Capacità: ☒ istituzionali ☐ tecniche ☐ umane
☐ Cambiamenti climatici ☐ Scarsa cooperazione ☐ Altro (specificare):

Fornire una classificazione dei seguenti argomenti, in relazione alle questioni/problemi di cui sopra:
(Fornire una classificazione: 1 =più significativo, 5= meno significativo; è possibile assegnare lo stesso valore ad un massimo di due voci)

PERDITE

- 1 ☐ consumi non autorizzati 3 ☐ errori di misura 1 ☐ perdite nelle reti di distribuzione
2 ☐ perdite dagli impianti ☐ altro (specificare): _____

DISPONIBILITA' DELLA RISORSA

- 3 ☐ incremento della domanda 4 ☐ fluttuazioni stagionali 1 ☐ capacità di stoccaggio
2 ☐ cambiamenti nelle pratiche di uso del suolo ☐ elevati consumi relativi ad altri settori (agricoli, industriali, ecc.)
5 ☐ cambiamenti climatici ☐ altro (specificare): _____

QUALITA'

- 3 ☐ inquinamento da fonti puntuali 3 ☐ inquinamento da fonti diffuse 1 ☐ protezione delle fonti
2 ☐ cambiamenti nelle pratiche di uso del suolo 4 ☐ fluttuazioni stagionali 5 ☐ cambiamenti climatici
☐ altro (specificare): _____

VINCOLI DEL SISTEMA DI DISTRIBUZIONE IDRICA

- 1 ☐ rete inadeguata 5 ☐ capacità delle stazioni di pompaggio 4 ☐ carenze dei serbatoi
3 ☐ scarsa manutenzione del sistema di distribuzione idrica 2 ☐ vetustà delle infrastrutture
☐ altro (specificare): _____

Quali sono i principali vincoli che condizioneranno la gestione dell'approvvigionamento idrico nel prossimo futuro (nei prossimi 25-30 anni)?

(Fornire una classificazione: 1 =più significativo, 5= meno significativo; è possibile assegnare lo stesso valore ad un massimo di due voci)

- 1 ☐ Perdite 4 ☐ Disponibilità della risorsa ☐ Qualità ☐ Tariffe idriche
3 ☐ Quadro legislativo e regolatorio 3 ☐ Mancanza di fondi 2 ☐ Infrastrutture
2 ☐ Capacità: ☒ istituzionali ☐ tecniche ☐ umane
☐ Cambiamenti climatici ☐ Scarsa cooperazione ☐ Altro (specificare): _____

Quali sono i passi più importanti e le attività che potrebbero migliorare l'approvvigionamento idrico in termini di questioni e vincoli di cui sopra?

Importanti investimenti e l'ammodernamento delle infrastrutture e un efficientamento della gestione del servizio

Alcune questioni trasversali potrebbero essere risolte attraverso:

(Fornire una classificazione: 1 =più significativo, 5= meno significativo; è possibile assegnare lo stesso valore ad un massimo di due voci)

6	<input type="checkbox"/> Politiche integrate, che affrontino la maggior parte delle questioni <input type="checkbox"/> Politiche separate, rivolte singolarmente alla maggior parte delle questioni 5 <input type="checkbox"/> Una migliore cooperazione tra i diversi settori 3 <input type="checkbox"/> Una migliore cooperazione tra autorità locali e nazionali 2 <input type="checkbox"/> Maggiori risorse finanziarie 4 <input type="checkbox"/> Le tariffe idriche <input type="checkbox"/> Altro (specificare):
7	Elencare i 3 attori ovvero le 3 azioni più significative nell'ottica del miglioramento della gestione dell'approvvigionamento e delle risorse idriche: REGIONE AAIO GESTORE
8	Quali sono le azioni che il tuo Ente/Organizzazione di appartenenza potrebbe adottare per migliorare la gestione dell'approvvigionamento e delle risorse idriche e contribuire alla sua sostenibilità? EFFICIENTAMENTO DELLA GESTIONE CON RECUPERO DI RISORSE DA INVESTIRE NELLE INFRASTRUTTURE
9	Ritieni che solo azioni a livello statale possano contribuire a migliorare l'approvvigionamento idrico? <input type="checkbox"/> SI <input checked="" type="checkbox"/> NO Se la risposta è NO, elencare altri livelli istituzionali di rilievo: LOCALE
	Il tuo grado di conoscenza/familiarità con il ruolo e le attività delle Commissioni Bilaterali di rilevanza sul tema della gestione dell'approvvigionamento e delle risorse idriche con carattere transfrontaliero/regionale può essere definito: <input type="checkbox"/> Completo <input type="checkbox"/> Discreto <input checked="" type="checkbox"/> Insufficiente
	Il tuo grado di conoscenza/familiarità con il ruolo e le attività delle Autorità locali di rilevanza sul tema dell'approvvigionamento idrico con carattere transfrontaliero/regionale può essere definito: <input type="checkbox"/> Completo <input checked="" type="checkbox"/> Discreto <input type="checkbox"/> Insufficiente
	Esistono, nel tuo paese/regione, norme quadro (trattati, accordi, protocolli di intesa, ecc.) significativi in relazione alla gestione di sistemi di approvvigionamento e risorse con carattere transfrontaliero/regionale di cui sei a conoscenza: <input checked="" type="checkbox"/> SI <input checked="" type="checkbox"/> NO Se la risposta è SI, riportarne gli estremi: PIANI DI GESTIONE DISTRETTI IDROGRAFICI

10

Il tuo grado di familiarità con vincoli e questioni inerenti le risorse idriche con carattere transfrontaliero/regionale può essere definito:

☐ Completo ☒ Discreto ☐ Insufficiente

Fornire ulteriori, eventuali, commenti:

L'implementazione dei Piani di Gestione dei Distretti idrografici, a livello nazionale, è un'attività:

☐ conclusa ☒ in corso ☒ da attivare

Fornire ulteriori, eventuali, commenti:

L'implementazione dei Piani di Gestione dei Distretti idrografici (riguardante i bacini idrografici transfrontalieri) è un'attività:

☐ conclusa ☐ in corso ☐ da attivare

Fornire ulteriori, eventuali, commenti: NON SO RISPONDERE

11

Quali sono gli argomenti più importanti che desidereresti approfondire, in merito alla gestione dei sistemi di approvvigionamento e delle risorse idriche con carattere transfrontaliero/regionale?

REALITÀ DI MONITORAGGIO
AZIONI DI SALVAGUARDIA

Consideri utile questo tipo di eventi (workshop/tavole rotonde)?

☒ SÌ ☐ NO ☐ Indifferente

Ulteriori commenti:

ANNEX 6: NATIONAL DATA MONTENEGRO

Expenditure incurred under IPA Adriatic CBC Programme
Project: Networking for Drinking Water Supply in Adriatic Region
Acronym: DRINKADRIA
Code: 1 STB 4004
Date: 28.02.2014
Public Utility "Vodovod i kanalizacija" Nikšić

THE REPORT ON THE WORKSHOP HELD IN NIKŠIĆ ON 28.02.2014

On 28.02.2014 Public Utility "Vodovod i kanalizacija" Nikšić organized a national workshop with reference to the implementation of the project "Networking for Drinking Water Supply in Adriatic Region" within IPA ADRIATIC program. As a part of this project and within the Work package No. 6 – pilot activities, Public Utility "Vodovod i kanalizacija" Nikšić will implement the activities on reduction of losses in the water supply system of the city of Nikšić. The workshop was completed successfully. The presentations within the workshop were made by the representatives of: Public Utility "Vodovod i kanalizacija" Nikšić, the Institute for Development of Water Resources "Jaroslav Černi"- Belgrade as well as IPA project Associate (M. Mijović).

The workshop was attended by 40 representatives, mostly the representatives of water utilities of Montenegro, representatives of local authorities and a number of a number of design and construction firms in the field of water supply.

All the participants were distributed a "Questionnaire on cross border /regional water supply systems and water resources management" from the WP3. The following conclusions were drawn from the responses to the mentioned questionnaire:

- Only a number of attendees completed the Questionnaire (total number of 11), mainly representatives of water utilities. 91% of the questionnaires were filled out by water utilities and 9% by the representatives of the Water Association. In addition, the same percentage applies to spatial scale.
- With reference to the main water supply management issues/ problems at the present the following rank was given: losses, water tariffs, lack of funding, infrastructure and water quality.
- In terms of losses, the most significant issues refer to unauthorized consumption and distribution network leakage. With reference to water quality, seasonal fluctuations and source protection were highlighted as the most important ones. In terms of water supply distribution constraints the following was pointed out: ageing, inadequate, network, poor maintenance of water supply distribution systems...
- With reference to question to the main water supply management constrains in the near future, the answers were given in the following rank: losses, lack of funding, infrastructure, quantity and water tariffs.
- In respect of the question relating to the most important steps and activities that would improve water supply in terms of aforementioned issues and constraints, improved

knowledge about future water availability and future planning (1) and reduction of the water loss and leakage real time monitoring (2) were ranked as the most important ones.

- Concerning the question of solving some cross-cutting issues in water supply, the following answers were given: more financial resources, water tariffs, better cooperation among different sectors...
- The most significant actions for improved water supply and water resources management are: water losses, rehabilitation of water facilities and providing additional water quantities.
- With reference to the actions organized by their institution/organization the following responses were given: loss reduction and raising public awareness.
- Activities implemented at the state and local levels contribute to improved water supply and water resources management.
- When the respondents were asked about their familiarity/ knowledge with role and activities of local authorities, familiarity with issues/ constrains and legislation framework that are significant for cross – border/ regional water supply and water resources management, their answers were “moderate” in the most of situations.
- With reference to the question of River basin Management Plans there were no answers in the most of situations.
- Workshops/roundtables were regarded as a place where you can best get familiar with cross- border /regional water supply systems and water resources management.

PROJECT TEAM:

Božović Olivera

Kovač Darko

Papović Mira

QUESTIONNAIRE ON CROSS BORDER /REGIONAL WATER SUPPLY SYSTEMS AND WATER RESOURCES MANAGEMENT

The Capitalization and sustainability activity (CS) is an important project component that would provide framework for exchange of relevant information of significance for cross- border/ regional water supply systems among stakeholders, authorities, research institutions, etc.

Yours feedbacks collected during the national workshops provide valuable inputs and contribute to successful DRINKADRIA project implementation.

Name:	<u>RAJKO</u>
Surname:	<u>BAKIC</u>
Institution/ Organization: (If you wish to remain anonymous, please do not fill)	<u>J.P. Vostros i konfirmeja - Bakic</u>

Your Institution/ Organization mission /main scope of the work

☒ Water utility ☐ Authority : ☐ local ☐ regional ☐ national
☐ Research Organization ☐ Water Association ☐ Other (please specify):

Your activities are mainly focused on :

☒ water supply ☐ water protection ☒ education /research
☐ international cooperation ☐ financial/ legislative ☐ other, namely :

What spatial scale reflects the best your activities and tasks?
(Please use percentile estimation in a way that total amount is 100%
Example: local -55%. national -25%, other - 20%)

local 80% regional % national % international 10% other, namely : 10, %

What are the main water supply management issues/ problems at the present?
(Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

☒ 1 Losses ☒ 2 Quantity ☐ Quality ☐ Water tariffs
☐ legislation and policy framework ☒ Lack of funding ☒ Infrastructure
☐ Capacities : ☐ institutional ☐ technical ☐ human
☐ Climate change ☐ Weak Cooperation ☐ Other, name y :

Please rank the following in terms of before mentioned issues/problems:
(Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

LOSSES

- | | | |
|--|---|--|
| <input checked="" type="checkbox"/> 2 unauthorized consumption | <input checked="" type="checkbox"/> 3 metering errors | <input checked="" type="checkbox"/> 1 distribution network leakage |
| <input type="checkbox"/> distribution network leakage | <input checked="" type="checkbox"/> 4 water supply facilities leakage | |
| <input type="checkbox"/> other, please specify | | |

QUANTITY

- | | | |
|--|---|---|
| <input type="checkbox"/> increase in water use | <input checked="" type="checkbox"/> 4 seasonal fluctuations | <input type="checkbox"/> water storage capacities |
| <input type="checkbox"/> changes in land use practices | <input type="checkbox"/> high consumption by other sectors (agriculture, industry, etc) | |
| <input checked="" type="checkbox"/> 2 Climate Change | <input type="checkbox"/> other, please specify | |

QUALITY

- | | | |
|--|---|--|
| <input checked="" type="checkbox"/> 3 point source pollution | <input checked="" type="checkbox"/> 2 nonpoint source pollution | <input type="checkbox"/> source protection issues |
| <input type="checkbox"/> changes in land use practices | <input type="checkbox"/> seasonal fluctuation | <input checked="" type="checkbox"/> 4 Climate Change |
| <input type="checkbox"/> other, please specify | | |

WATER SUPPLY DISTRIBUTION CONSTRAINTS

- | | | |
|---|--|--|
| <input checked="" type="checkbox"/> 2 Inadequate network | <input type="checkbox"/> pumping stations capacities | <input type="checkbox"/> reservoirs deficiency |
| <input type="checkbox"/> poor maintenance of water supply distribution system | | <input checked="" type="checkbox"/> 1 ageing |
| <input type="checkbox"/> other, please specify | | |

What are the main water supply management constraints in the near future (next 25- 30 years) ?
(Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

- | | | | |
|--|---|--|--|
| <input checked="" type="checkbox"/> 1 Losses | <input type="checkbox"/> Quantity | <input type="checkbox"/> Quality | <input type="checkbox"/> Water tariffs |
| <input type="checkbox"/> legislation and policy framework | <input checked="" type="checkbox"/> 2 Lack of funding | <input checked="" type="checkbox"/> 3 Infrastructure | |
| <input type="checkbox"/> Capacities : <input type="checkbox"/> institutional <input type="checkbox"/> technical <input type="checkbox"/> human | | | |
| <input type="checkbox"/> Climate change <input type="checkbox"/> Weak Cooperation <input type="checkbox"/> Other, namely | | | |

What are the most important steps and activities that would improve water supply in terms of aforementioned issues and constraints?

- smanjivanje i pizickih i prividnih gubitaka
- oslabljivanje sredstava (Financijalnih)
- energetska efikasnost

Do you think that some cross-cutting issues can be solved by:

(Please rank them: 1 the most significant, 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

- ☐ Policy that would address the majority of issues
- ☐ Separate policies that would address the majority of issues

<input checked="" type="checkbox"/> Better cooperation among different sectors <input checked="" type="checkbox"/> Better cooperation among local and national authorities <input checked="" type="checkbox"/> More financial resources <input type="checkbox"/> Water tariffs <input type="checkbox"/> Other, namely :
Please list the 3 most significant actors/ actions for improved water supply and water resources management: - SAAJIVANE GUSITHA (Fitchin i Prividhiti) - OBTAINING FINANCIAL SUPPORT FROM LOCAL GOVERNMENT - INTEGRATING PRIVATE AND PUBLIC SECTORS
What are the actions that your institution/ organization might take to improve water supply and water resources management and contribute to its sustainability? - DO A PROJECT ON THE DRINKING WATER - PROVIDE SUPPORT TO THE GOVERNMENT
Do you think that only state activities contribute to improved water supply: <input checked="" type="checkbox"/> YES <input type="checkbox"/> No If the answer is NO please list other institutional levels of significance:
Your familiarity/ knowledge with role and activities of Bilateral Commissions of significance for cross – border/ regional water supply and water resources management: <input type="checkbox"/> Comprehensive <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Deficient
Your familiarity/ knowledge with role and activities of Local Authorities of significance for cross – border/ regional water supply: <input type="checkbox"/> Comprehensive <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Deficient
Are there legislative frameworks (treaties, agreements, Memorandum of Understanding, etc.) that are significant for cross-border/ regional water supply systems and water resource management you are familiar with in your country/region: <input type="checkbox"/> YES <input checked="" type="checkbox"/> No If the answer is yes, please provide the title
Your familiarity with issues/ constraints regarding cross- border / regional water resources: <input type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Deficient Please provide additional comments if any:

Implementation level of River basin Management Plans at the national level:

☐ Completed ☐ Ongoing ☒ Pending

Please provide additional comments if any:

Implementation level of River basin Management Plans (transboundary river basins) :

☐ Completed ☐ Ongoing ☒ Pending

Please provide additional comments if any:

What are the most important topics that you would like to become more familiar regarding to cross-border /regional water supply systems and water resources management?

UNAPPEARED WATERWORKS SYSTEM - SHARADHAR GUBHAR

Do you consider this type of workshops/roundtables useful:

☒ Yes ☐ No ☐ Neutral

Additional Comments:

**QUESTIONNAIRE ON CROSS BORDER /REGIONAL
WATER SUPPLY SYSTEMS AND WATER RESOURCES MANAGEMENT**

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Yours feedbacks collected during the national workshops provide valuable inputs and contribute to successful DRINKADRIA project implementation.

Name: Surname: Institution/ Organization: (If you wish to remain anonymous, please do not fill)	<div style="text-align: center;"> <p>MILAN</p> <p>BUTKOVIC</p> <p>VODOVOD "BISTRICA"</p> <p>BISTOLA POS</p> </div>
Your Institution/ Organization mission /main scope of the work: <input checked="" type="checkbox"/> Water utility <input type="checkbox"/> Authority : <input type="checkbox"/> local <input type="checkbox"/> regional <input type="checkbox"/> national <input type="checkbox"/> Research Organization <input type="checkbox"/> Water Association <input type="checkbox"/> Other (please specify):	
Your activities are mainly focused on : <input checked="" type="checkbox"/> water supply <input type="checkbox"/> water protection <input type="checkbox"/> education/research <input type="checkbox"/> international cooperation <input type="checkbox"/> financial/ legislative <input type="checkbox"/> other, namely :	
What spatial scale reflects the best your activities and tasks? <i>(Please use percentile estimation in a way that total amount is 100%</i> <i>Example: local -55%. national -25%, other - 20%)</i> local <u>85</u> % regional <u>5</u> % national <u>5</u> % international <u>5</u> % other, namely : _____, _%	
What are the main water supply management issues/ problems at the present? <i>(Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)</i> <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input checked="" type="checkbox"/> Losses <input checked="" type="checkbox"/> Quantity <input checked="" type="checkbox"/> Quality </div> <div style="width: 50%;"> <input checked="" type="checkbox"/> Water tariffs </div> <div style="width: 50%;"> <input checked="" type="checkbox"/> legislation and policy framework <input checked="" type="checkbox"/> Lack of funding <input checked="" type="checkbox"/> Infrastructure </div> <div style="width: 50%;"> <input type="checkbox"/> Capacities : <input checked="" type="checkbox"/> institutional <input checked="" type="checkbox"/> technical <input checked="" type="checkbox"/> human </div> <div style="width: 50%;"> <input checked="" type="checkbox"/> Climate change <input checked="" type="checkbox"/> Weak Cooperation <input type="checkbox"/> Other, namely : </div> </div>	

Please rank the following in terms of before mentioned issues/problems:

(Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

LOSSES

- ☒ 2 unauthorized consumption ☒ 3 metering errors ☒ 3 distribution network leakage
☒ 3 distribution network leakage ☒ 4 water supply facilities leakage
☐ other, please specify

QUANTITY

- ☒ 4 increase in water use ☒ 3 seasonal fluctuations ☒ 4 water storage capacities
☐ changes in land use practices ☐ high consumption by other sectors (agriculture, industry, etc)
☐ Climate Change ☐ other, please specify

QUALITY

- ☒ 2 point source pollution ☐ nonpoint source pollution ☒ 4 source protection issues
☐ changes in land use practices ☐ seasonal fluctuation ☐ Climate Change
☐ other, please specify

WATER SUPPLY DISTRIBUTION CONSTRAINS

- ☒ 2 inadequate network ☒ 3 pumping stations capacities ☒ 3 reservoirs deficiency
☒ 2 poor maintenance of water supply distribution system ☒ 4 ageing
☐ other, please specify

What are the main water supply management constrains in the near future (next 25- 30 years) ?

(Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

- ☒ 3 Losses ☒ 4 Quantity ☒ 4 Quality ☒ 4 Water tariffs
☒ 4 legislation and policy framework ☐ Lack of funding ☒ 5 Infrastructure
☐ Capacities : ☒ 2 institutional ☒ 2 technical ☒ 4 human
☒ 5 Climate change ☒ 3 Weak Cooperation ☐ Other, namely

What are the most important steps and activities that would improve water supply in terms of aforementioned issues and constrains?

Do you think that some cross-cutting issues can be solved by:

(Please rank them: 1 the most significant , 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

- ☐ Policy that would address the majority of issues
☐ Separate policies that would address the majority of issues

<input type="checkbox"/> Better cooperation among different sectors <input type="checkbox"/> Better cooperation among local and national authorities <input type="checkbox"/> More financial resources <input type="checkbox"/> Water tariffs <input type="checkbox"/> Other, namely :
Please list the 3 most significant actors/ actions for improved water supply and water resources management:
What are the actions that your institution/ organization might take to improve water supply and water resources management and contribute to its sustainability?
Do you think that only state activities contribute to improved water supply: <input type="checkbox"/> YES <input type="checkbox"/> No If the answer is NO please list other institutional levels of significance:
Your familiarity/ knowledge with role and activities of Bilateral Commissions of significance for cross – border/ regional water supply and water resources management: <input type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input type="checkbox"/> Deficient
Your familiarity/ knowledge with role and activities of Local Authorities of significance for cross – border/ regional water supply: <input type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input type="checkbox"/> Deficient
Are there legislative frameworks (treaties, agreements, Memorandum of Understanding, etc.) that are significant for cross-border/ regional water supply systems and water resource management you are familiar with in your country/region: <input type="checkbox"/> YES <input type="checkbox"/> No If the answer is yes, please provide the title
Your familiarity with issues/ constrains regarding cross- border / regional water resources: <input type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input type="checkbox"/> Deficient Please provide additional comments if any:

Implementation level of River basin Management Plans at the national level:

☐ Completed ☐ Ongoing ☐ Pending

Please provide additional comments if any:

Implementation level of River basin Management Plans (transboundary river basins) :

☐ Completed ☐ Ongoing ☐ Pending

Please provide additional comments if any:

What are the most important topics that you would like to become more familiar regarding to cross- border /regional water supply systems and water resources management?

Do you consider this type of workshops/roundtables useful:

☐ Yes ☐ No ☐ Neutral

Additional Comments:

UPITNIK O UPRAVLJANJU PREKOGRANIČNIM /REGIONALNIM VODOVODNIM SISTEMIMA I VODNIM RESURSIMA

Aktivnost koja se odnosi na kapitalizaciju i održivost (CS) je važna projektna komponenta koja će pružiti okvir za razmjenu relevantnih informacija od značaja za prekogranične/ regionalne vodovodne sisteme između interesnih strana, organa vlasti, istraživačkih institucija, itd.

Vaše povratne informacije prikupljene tokom održavanja nacionalnih radionica će dati važan input i doprinos uspješnoj realizaciji DRINKADRIA projekta.

Ime:	MIZAN
Prezime:	BUKATOVIĆ
Institucija/ Organizacija: (Ako želite da ostanete anonimni, molimo Vas da ne popunjavate)	JP VODOVOD "BUTRICA" BISKO POLJE

Misija/glavno polje djelovanja Vaše Institucije/Organizacije:

☒ Vodovodno preduzeće ☐ Organ vlasti: ☐ lokalni ☐ regionalni ☐ državni
☐ Istraživačka organizacija ☐ Vodovodno udruženje ☐ Ostalo (molimo naznačite):

Vaše aktivnosti su uglavnom fokusirane na:

☒ vodosnabdjevanju ☒ zaštiti voda ☐ obrazovanju/istraživanju
☐ međunarodnoj saradnji ☐ finansijama/ zakonodavstvu ☐ ostalo, navedite:

Koja prostorna skala najbolje odražava Vaše aktivnosti i zadatke?

Molimo Vas koristite procentualnu procjenu tako da je ukupni iznos 100%

Primjer: lokalna -55%, državna -25%, ostalo - 20%)

lokalna 85% regionalna 5% državna 5% međunarodna 5% ostalo, navesti: _____, _%

Koja su glavna pitanja/problemi trenutnog upravljanja vodosnabdjevanjem?

(Molimo Vas rangirajte ih: 1 najznačajniji, 5 najmanje značajan, moguće je dodijeliti isti broj za maksimalno dva pitanja/problema)

☒ Gubici ☒ Količina ☒ Kvalitet ☒ Tarife vode
☒ Zakonodavstvo i politički okvir ☒ Nedostatak sredstava ☒ Infrastruktura
☐ Kapaciteti: ☒ institucionalni ☒ tehnički ☒ ljudski
☒ Klimatske promjene ☒ Slaba saradnja ☐ Ostalo, navesti:

Molimo Vas rangirajte sljedeće u pogledu prethodno navedenih pitanja/problema:

(Molimo Vas rangirajte ih: 1 najznačajniji, 5 najmanje značajan, moguće je dodijeliti isti broj za maksimalno dva pitanja/problema)

GUBICI

- ☒ neovlašćena potrošnja ☒ greške u mjerenju ☒ curenja u distributivnoj mreži
☒ curenja u distributivnoj mreži ☒ curenja u vodovodnim objektima
☐ ostalo, navesti

KOLIČINA

- ☒ povećanje korišćenja vode ☒ sezonske varijacije ☒ kapaciteti skladištenja vode
☐ promjene u praksi korišćenja zemljišta ☐ visoka potrošnja ostalih sektora (poljoprivredni, industrijski, itd.)
☐ klimatske promjene ☐ ostalo, navesti

KVALITET

- ☒ tačkasti izvori zagađenja ☐ netačkasti izvori zagađenja ☒ pitanja zaštite izvora
☐ promjene u praksi korišćenja zemljišta ☐ sezonske varijacije ☐ klimatske promjene
☐ ostalo, navesti

OGRANIČENJA U VODOSNABDJEVANJU

- ☒ neadekvatna mreža ☒ kapaciteti pumpnih stanica ☒ nedostatak rezervoara
☒ slabo održavanje vodovodnog distributivnog sistema ☒ dotrajalost
☐ ostalo, naznačiti

Koja su glavna ograničenja u upravljanju vodosnabdjevanjem u skorijoj budućnosti (sljedećih 25-30 godina)?
(Molimo Vas rangirajte ih: 1 najznačajniji, 5 najmanje značajan, moguće je dodijeliti isti broj za maksimalno dva pitanja/problema)

- ☒ Gubici ☒ Količina ☒ Kvalitet ☒ Tarife vode
☒ Zakonodavstvo i politički okvir ☒ Nedostatak sredstava ☒ Infrastruktura
☐ Kapaciteti: ☒ institucionalni ☒ tehnički ☒ ljudski
☒ Klimatske promjene ☒ Slaba saradnja ☐ Ostalo:

Koji su najvažniji koraci i aktivnosti koji mogu poboljšati vodosnabdjevanje u pogledu gore navedenih problema i ograničenja?

(Molimo Vas rangirajte ih: 1 najznačajniji, 5 najmanje značajan, moguće je dodijeliti isti broj za maksimalno dva pitanja/problema)

- ☒ Više informacija o uticaju klimatskih promjena na upravljanje vodnim resursima i buduće planiranje;
☒ Poboljšano znanje o neizvjesnostima koje utiču na mjere prilagođavanja klimatskim promjenama;
☒ Poboljšano znanje o budućoj raspoloživosti vodom i budućem planiranju
☒ Poboljšano znanje o uticaju prakse korišćenja zemljišta na vodovodne sisteme i definisanju zona sanitarne zaštite izvora;
☒ Poboljšano znanje o budućoj bezbjednosti vode
☒ Poboljšane prakse upravljanja prekograničnim vodovodnim sistemima;

- ☒ Razvoj opšteg protokola za prekogranične / regionalne sisteme vodosnabdjevanja i upravljanja vodnim resursima;
- ☒ Implementacija prioritenih mjera u cilju efikasnijeg i djelotvornijeg upravljanja vodovodnim sistemima i vodnim resursima;
- ☒ Realno vrijeme praćenja smanjenja gubitaka vode i curenja;
- ☒ Primjena savremenih metodologija za realno vrijeme praćenja: curenja, kvaliteta vode, rasporeda pumpi, itd.
- ☒ Razvoj WEB strane koja će poboljšati saradnju, razmjenu i transfer znanja relevantnog za upravljanje vodnim resursima i pitanja vezana za vodovodne sisteme;
- ☐ Ostalo, navesti:

Da li smatrate da se neka prioriteta pitanja mogu riješiti putem sljedećeg:

(Molimo Vas rangirajte ih: 1 najznačajniji, 5 najmanje značajan, moguće je dodijeliti isti broj za maksimalno dva pitanja/problema)

- ☒ Politika koja će se baviti većinom pitanja
- ☒ Odvojene politike koje će se baviti većinom pitanja
- ☒ Bolja saradnja između različitih sektora
- ☒ Bolja saradnja između lokalne i državne vlasti
- ☒ Više finansijskih sredstava
- ☒ Tarife vode
- ☐ Ostalo, navesti:

Molimo Vas navedite 3 najznačajnija aktera/ aktivnosti za poboljšanje upravljanja vodosnabdjevanjem i vodnim resursima:

1. KAPACITETI
2. ZAJČIŠT
3. ZAJČIŠT dotrađila cjevovoda, fitinga, ...!

Koje su aktivnosti koje Vaša institucija/ organizacija može sprovesti u cilju poboljšanja upravljanja vodosnabdjevanjem i vodnim resursima i doprinjeti njihovoj održivosti?

1. OPOSLEDIČNO DOBAVIH KOLIČINA VODA
2. ZAJČIŠT IZVOĐIŠT

Da li smatrate da samo aktivnosti na državnom nivou doprinose poboljšanju vodosnabdjevanja:

☐ DA ☒ NE

Ukoliko je odgovor NE molimo Vas navedite ostale institucionalne nivoe od značaja:

LOKALNA SAMOUPRAVA MOŽE VIŠE

Vaše poznavanje/ znanje o ulozi i aktivnostima Bilateralnih komisija od značaja za upravljanje prekograničnim/regionalnim vodosnabdjevanjem i vodnim resursima:

☐ Sveobuhvatno ☒ Umjereno ☐ Nedovoljno

Vaše poznavanje/ znanje o ulozi i aktivnostima Lokalne vlasti od značaja za prekogranično/regionalno

vodosnabdjevanje:

☐ Sveobuhvatno ☒ Umjereno ☐ Nedovoljno

Da li postoje zakonski okviri (sporazumi, ugovori, Memorandum o razumijevanju, itd.) koji su od značaja za upravljanje prekograničnim/ regionalnim vodovodnim sistemima i vodnim resursima sa kojima ste upoznati u Vašoj zemlji/regionu:

☒ DA ☐ NE

Ukoliko je odgovor DA, navedite naziv

MEMORANDUM O RAZUMIJEVANJU
SRBIJA, NOVI PAZAR

Vaša upoznatost sa pitanjima/ ograničenjima koja se odnose na prekogranične / regionalne vodne resurse:

☐ Sveobuhvatno ☒ Umjereno ☐ Nedovoljno

Molimo Vas dajte dodatne komentare ukoliko ih ima:

Nivo implementacije Planova upravljanja riječnim slivovima na nacionalnom nivou:

☐ Završen ☒ U toku ☐ Na čekanju

Molimo Vas dajte dodatne komentare ukoliko ih ima:

Nivo implementacije Planova upravljanja riječnim slivovima (prekogranični riječni slivovi):

☐ Završen ☒ U toku ☐ Na čekanju

Molimo Vas dajte dodatne komentare ukoliko ih ima:

Koje su najvažnije teme sa kojima biste željeli da se bolje upoznate u pogledu prekograničnih / regionalnih vodovodnih sistema i upravljanja vodnim resursima?

ZASTITA OKOLISNE OKOLINE

Da li smatrate ovu vrstu radionica/okruglih stolova korisnim:

☒ Da ☐ Ne ☐ Neutralan

Ostali komentari:

- možda bi trebalo doći do
ORGANIZOVANJE OVIKAD RADIONICA!

**QUESTIONNAIRE ON CROSS BORDER /REGIONAL
WATER SUPPLY SYSTEMS AND WATER RESOURCES MANAGEMENT**

The Capitalization and sustainability activity (CS) is an important project component that would provide framework for exchange of relevant information of significance for cross- border/ regional water supply systems among stakeholders, authorities, research institutions, etc.

Yours feedbacks collected during the national workshops provide valuable inputs and contribute to successful DRINKADRIA project implementation.

Name: Surname: Institution/ Organization: (If you wish to remain anonymous, please do not fill)	MIKOLA PEJAKOVIĆ D.O.O. "VODOVODI KANALIZACIJA" CETINJE																
Your Institution/ Organization mission /main scope of the work: <input checked="" type="checkbox"/> Water utility <input type="checkbox"/> Authority : <input type="checkbox"/> local <input type="checkbox"/> regional <input type="checkbox"/> national <input type="checkbox"/> Research Organization <input type="checkbox"/> Water Association <input type="checkbox"/> Other (please specify):																	
Your activities are mainly focused on : <input checked="" type="checkbox"/> water supply <input type="checkbox"/> water protection <input type="checkbox"/> education/research <input type="checkbox"/> international cooperation <input type="checkbox"/> financial/ legislative <input type="checkbox"/> other, namely :																	
What spatial scale reflects the best your activities and tasks? <i>(Please use percentile estimation in a way that total amount is 100%</i> <i>Example: local -55%. national -25%, other - 20%)</i> local <u>70</u> % regional <u>10</u> % national <u>10</u> % international <u>10</u> % other, namely : _____, _%																	
What are the main water supply management issues/ problems at the present? <i>(Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)</i> <table style="width:100%;"> <tr> <td><input checked="" type="checkbox"/> Losses</td> <td><input type="checkbox"/> Quantity</td> <td><input type="checkbox"/> Quality</td> <td><input type="checkbox"/> Water tariffs</td> </tr> <tr> <td><input type="checkbox"/> legislation and policy framework</td> <td><input checked="" type="checkbox"/> Lack of funding</td> <td><input checked="" type="checkbox"/> Infrastructure</td> <td></td> </tr> <tr> <td colspan="4"><input type="checkbox"/> Capacities : <input type="checkbox"/> institutional <input type="checkbox"/> technical <input type="checkbox"/> human</td> </tr> <tr> <td colspan="4"><input type="checkbox"/> Climate change <input type="checkbox"/> Weak Cooperation <input type="checkbox"/> Other, namely :</td> </tr> </table>		<input checked="" type="checkbox"/> Losses	<input type="checkbox"/> Quantity	<input type="checkbox"/> Quality	<input type="checkbox"/> Water tariffs	<input type="checkbox"/> legislation and policy framework	<input checked="" type="checkbox"/> Lack of funding	<input checked="" type="checkbox"/> Infrastructure		<input type="checkbox"/> Capacities : <input type="checkbox"/> institutional <input type="checkbox"/> technical <input type="checkbox"/> human				<input type="checkbox"/> Climate change <input type="checkbox"/> Weak Cooperation <input type="checkbox"/> Other, namely :			
<input checked="" type="checkbox"/> Losses	<input type="checkbox"/> Quantity	<input type="checkbox"/> Quality	<input type="checkbox"/> Water tariffs														
<input type="checkbox"/> legislation and policy framework	<input checked="" type="checkbox"/> Lack of funding	<input checked="" type="checkbox"/> Infrastructure															
<input type="checkbox"/> Capacities : <input type="checkbox"/> institutional <input type="checkbox"/> technical <input type="checkbox"/> human																	
<input type="checkbox"/> Climate change <input type="checkbox"/> Weak Cooperation <input type="checkbox"/> Other, namely :																	

Please rank the following in terms of before mentioned issues/problems:

(Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

LOSSES

- | | | |
|--|---|--|
| <input checked="" type="checkbox"/> unauthorized consumption | <input checked="" type="checkbox"/> metering errors | <input checked="" type="checkbox"/> distribution network leakage |
| <input checked="" type="checkbox"/> distribution network leakage | <input checked="" type="checkbox"/> water supply facilities leakage | |
| <input checked="" type="checkbox"/> other, please specify | | |

QUANTITY

- | | | |
|---|--|--|
| <input checked="" type="checkbox"/> increase in water use | <input checked="" type="checkbox"/> seasonal fluctuations | <input checked="" type="checkbox"/> water storage capacities |
| <input checked="" type="checkbox"/> changes in land use practices | <input checked="" type="checkbox"/> high consumption by other sectors (agriculture, industry, etc) | |
| <input checked="" type="checkbox"/> Climate Change | <input type="checkbox"/> other, please specify | |

QUALITY

- | | | |
|--|--|--|
| <input checked="" type="checkbox"/> point source pollution | <input type="checkbox"/> nonpoint source pollution | <input checked="" type="checkbox"/> source protection issues |
| <input type="checkbox"/> changes in land use practices | <input checked="" type="checkbox"/> seasonal fluctuation | <input type="checkbox"/> Climate Change |
| <input type="checkbox"/> other, please specify | | |

WATER SUPPLY DISTRIBUTION CONSTRAINS

- | | | |
|--|---|---|
| <input checked="" type="checkbox"/> inadequate network | <input checked="" type="checkbox"/> pumping stations capacities | <input checked="" type="checkbox"/> reservoirs deficiency |
| <input checked="" type="checkbox"/> poor maintenance of water supply distribution system | <input checked="" type="checkbox"/> ageing | |
| <input type="checkbox"/> other, please specify | | |

What are the main water supply management constrains in the near future (next 25- 30 years) ?

(Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

- | | | | |
|--|---|---|---|
| <input type="checkbox"/> Losses | <input checked="" type="checkbox"/> Quantity | <input type="checkbox"/> Quality | <input checked="" type="checkbox"/> Water tariffs |
| <input type="checkbox"/> legislation and policy framework | <input checked="" type="checkbox"/> Lack of funding | <input type="checkbox"/> Infrastructure | |
| <input checked="" type="checkbox"/> Capacities : <input type="checkbox"/> institutional <input type="checkbox"/> technical <input checked="" type="checkbox"/> human | | | |
| <input checked="" type="checkbox"/> Climate change <input type="checkbox"/> Weak Cooperation <input type="checkbox"/> Other, namely | | | |

What are the most important steps and activities that would improve water supply in terms of aforementioned issues and constrains?

RECONSTRUCTIONS OF WATERSUPPLY NETWORK AND CUTTING LOSSES ON DISTRIBUTION NETWORK.

Do you think that some cross-cutting issues can be solved by:

(Please rank them: 1 the most significant , 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

- | |
|--|
| <input checked="" type="checkbox"/> Policy that would address the majority of issues |
| <input type="checkbox"/> Separate policies that would address the majority of issues |

<input checked="" type="checkbox"/> Better cooperation among different sectors <input checked="" type="checkbox"/> Better cooperation among local and national authorities <input checked="" type="checkbox"/> More financial resources <input checked="" type="checkbox"/> Water tariffs <input type="checkbox"/> Other, namely :
Please list the 3 most significant actors/ actions for improved water supply and water resources management: 1. DETECTION OF UNAUTHORIZED CONSUMPTION 2. REPLACEMENT OF WATER METER ON REMOTE CONTROL 3. IMPROVEMENT OF DISTRIBUTION SYSTEM
What are the actions that your institution/ organization might take to improve water supply and water resources management and contribute to its sustainability? CURRENTLY WE ARE UNDER RECONSTRUCTION OF WATER SUPPLY NETWORK AND DETECTING ILLEGAL CONSUMPTION ON NETWORK
Do you think that only state activities contribute to improved water supply: <input checked="" type="checkbox"/> YES <input type="checkbox"/> No If the answer is NO please list other institutional levels of significance:
Your familiarity/ knowledge with role and activities of Bilateral Commissions of significance for cross – border/ regional water supply and water resources management: <input checked="" type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input type="checkbox"/> Deficient
Your familiarity/ knowledge with role and activities of Local Authorities of significance for cross – border/ regional water supply: <input checked="" type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input type="checkbox"/> Deficient
Are there legislative frameworks (treaties, agreements, Memorandum of Understanding, etc.) that are significant for cross-border/ regional water supply systems and water resource management you are familiar with in your country/region: <input type="checkbox"/> YES <input checked="" type="checkbox"/> No If the answer is yes, please provide the title
Your familiarity with issues/ constraints regarding cross- border / regional water resources: <input checked="" type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input type="checkbox"/> Deficient Please provide additional comments if any:

Implementation level of River basin Management Plans at the national level:

☐ Completed ☐ Ongoing ☒ Pending

Please provide additional comments if any:

Implementation level of River basin Management Plans (transboundary river basins) :

☐ Completed ☐ Ongoing ☒ Pending

Please provide additional comments if any:

What are the most important topics that you would like to become more familiar regarding to cross- border /regional water supply systems and water resources management?

ENVIRONMENTAL PROTECTION AND QUALITY OF WATER AND WASTE WATER

Do you consider this type of workshops/roundtables useful:

☒ Yes ☐ No ☐ Neutral

Additional Comments:

QUESTIONNAIRE ON CROSS BORDER /REGIONAL WATER SUPPLY SYSTEMS AND WATER RESOURCES MANAGEMENT

The Capitalization and sustainability activity (CS) is an important project component that would provide framework for exchange of relevant information of significance for cross- border/ regional water supply systems among stakeholders, authorities, research institutions, etc.

Yours feedbacks collected during the national workshops provide valuable inputs and contribute to successful DRINKADRIA project implementation.

Name:	JADRANKA PAVIČEVIĆ
Surname:	PAVIČEVIĆ
Institution/ Organization: (If you wish to remain anonymous, please do not fill)	HRVODOVOD I KANALIZACIJA "d.o.o. Cebuyce 81200 Cebuyce OBILICA 66
Your Institution/ Organization mission /main scope of the work:	
<input checked="" type="checkbox"/> Water utility <input type="checkbox"/> Authority : <input type="checkbox"/> local <input type="checkbox"/> regional <input type="checkbox"/> national <input type="checkbox"/> Research Organization <input type="checkbox"/> Water Association <input type="checkbox"/> Other (please specify):	
Your activities are mainly focused on :	
<input checked="" type="checkbox"/> water supply <input type="checkbox"/> water protection <input type="checkbox"/> education/research <input type="checkbox"/> international cooperation <input type="checkbox"/> financial/ legislative <input type="checkbox"/> other, namely :	
What spatial scale reflects the best your activities and tasks? (Please use percentile estimation in a way that total amount is 100% Example: local -55%. national -25%, other - 20%)	
local <u>55</u> % regional <u>10</u> % national <u>20</u> % international <u> </u> % other, namely : <u>5</u> , <u> </u> %	
What are the main water supply management issues/ problems at the present? (Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)	
<input checked="" type="checkbox"/> Losses <input type="checkbox"/> Quantity <input type="checkbox"/> Quality <input type="checkbox"/> Water tariffs <input type="checkbox"/> legislation and policy framework <input type="checkbox"/> Lack of funding <input type="checkbox"/> Infrastructure <input type="checkbox"/> Capacities : <input checked="" type="checkbox"/> institutional <input type="checkbox"/> technical <input type="checkbox"/> human <input type="checkbox"/> Climate change <input type="checkbox"/> Weak Cooperation <input type="checkbox"/> Other, namely :	

Please rank the following in terms of before mentioned issues/problems:

(Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

LOSSES

- ☒ unauthorized consumption ☒ metering errors ☒ distribution network leakage
☒ distribution network leakage ☒ water supply facilities leakage
☐ other, please specify

QUANTITY

- ☒ increase in water use ☒ seasonal fluctuations ☒ water storage capacities
☒ changes in land use practices ☒ high consumption by other sectors (agriculture, industry, etc)
☒ Climate Change ☐ other, please specify

QUALITY

- ☒ point source pollution ☒ nonpoint source pollution ☒ source protection issues
☒ changes in land use practices ☐ seasonal fluctuation ☒ Climate Change
☐ other, please specify

WATER SUPPLY DISTRIBUTION CONSTRAINS

- ☒ inadequate network ☒ pumping stations capacities ☒ reservoirs deficiency
☒ poor maintenance of water supply distribution system ☒ ageing
☐ other, please specify

What are the main water supply management constrains in the near future (next 25- 30 years) ?

(Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

- ☒ Losses ☒ Quantity ☒ Quality ☒ Water tariffs
☒ legislation and policy framework ☐ Lack of funding ☒ Infrastructure
☐ Capacities : ☒ institutional ☒ technical ☒ human
☒ Climate change ☒ Weak Cooperation ☐ Other, namely

What are the most important steps and activities that would improve water supply in terms of aforementioned issues and constrains?

Reconstruction and rehabilitation water supply system.
 Reduction of water losses (NRW) program

Do you think that some cross-cutting issues can be solved by:

(Please rank them: 1 the most significant , 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

- ☒ Policy that would address the majority of issues
☒ Separate policies that would address the majority of issues

- ☒ Better cooperation among different sectors
☒ Better cooperation among local and national authorities
☒ More financial resources
☒ Water tariffs
☐ Other, namely : *applications IMS system / standard / I to /*

Please list the 3 most significant actors/ actions for improved water supply and water resources management:

- reconstruction and rehabilitation projects and facilities*
→ Application ICT technologies
→ Implementation IMS (integrated management system)

What are the actions that your institution/ organization might take to improve water supply and water resources management and contribute to its sustainability?

- technical activities -*
→ institutional activities -
→ implementation HACCP

Do you think that only state activities contribute to improved water supply:

☐ YES ☒ No

If the answer is NO please list other institutional levels of significance:

Application of standards ISO 9001 - ISO 14001 - ISO 18001

Your familiarity/ knowledge with role and activities of Bilateral Commissions of significance for cross – border/ regional water supply and water resources management:

☒ Comprehensive ☐ Moderate ☐ Deficient

Your familiarity/ knowledge with role and activities of Local Authorities of significance for cross – border/ regional water supply:

☒ Comprehensive ☐ Moderate ☐ Deficient

Are there legislative frameworks (treaties, agreements, Memorandum of Understanding, etc.) that are significant for cross-border/ regional water supply systems and water resource management you are familiar with in your country/region:

☒ YES ☐ No

If the answer is yes, please provide the title

National Program for policy harmonization Myanmar and EU
CROSS BORDER CRATIA, CROSS BORDER - ALBANIA

Your familiarity with issues/ constraints regarding cross- border / regional water resources:

☒ Comprehensive ☐ Moderate ☐ Deficient

Please provide additional comments if any:

Implementation level of River basin Management Plans at the national level:

☐ Completed ☐ Ongoing ☐ Pending

Please provide additional comments if any:

Implementation level of River basin Management Plans (transboundary river basins) :

☐ Completed ☐ Ongoing ☐ Pending

Please provide additional comments if any:

What are the most important topics that you would like to become more familiar regarding to cross- border /regional water supply systems and water resources management?

*Drinking
Environmental protection, quality of water, and waste
water.*

Do you consider this type of workshops/roundtables useful:

☒ Yes ☐ No ☐ Neutral

Additional Comments:

*The presentation is very good.
I don't understand some things
about process in water supply of
the town. It's in a sector.
And - the connection SCADA and GIS
because many water utilities have
done SCADA - without connecting
GIS - Thank you*

**UPITNIK O UPRAVLJANJU PREKOGRANIČNIM /REGIONALNIM
VODOVODNIM SISTEMIMA I VODNIM RESURSIMA**

Aktivnost koja se odnosi na kapitalizaciju i održivost (CS) je važna projektna komponenta koja će pružiti okvir za razmjenu relevantnih informacija od značaja za prekogranične/ regionalne vodovodne sisteme između interesnih strana, organa vlasti, istraživačkih institucija, itd.

Vaše povratne informacije prikupljene tokom održavanja nacionalnih radionica će dati važan input i doprinos uspješnoj realizaciji DRINKADRIA projekta.

<p>Ime: Prezime: Institucija/ Organizacija: (Ako želite da ostanete anonimni, molimo Vas da ne popunjavate)</p>	<p><i>Marija Čekić</i></p> <p><i>IP, Vodovod i kanalizacija "Mistic"</i></p>
<p>Misija/glavno polje djelovanja Vaše Institucije/Organizacije:</p> <p> <input checked="" type="checkbox"/> Vodovodno preduzeće <input type="checkbox"/> Organ vlasti: <input type="checkbox"/> lokalni <input type="checkbox"/> regionalni <input type="checkbox"/> državni <input type="checkbox"/> Istraživačka organizacija <input type="checkbox"/> Vodovodno udruženje <input type="checkbox"/> Ostalo (molimo naznačite): </p>	
<p>Vaše aktivnosti su uglavnom fokusirane na:</p> <p> <input checked="" type="checkbox"/> vodosnabdjevanju <input type="checkbox"/> zaštiti voda <input type="checkbox"/> obrazovanju/istraživanju <input type="checkbox"/> međunarodnoj saradnji <input type="checkbox"/> finansijama/ zakonodavstvu <input type="checkbox"/> ostalo, navedite: </p>	
<p>Koja prostorna skala najbolje odražava Vaše aktivnosti i zadatke?</p> <p><i>Molimo Vas koristite procentualnu procjenu tako da je ukupni iznos 100%</i></p> <p><i>Primjer: lokalna -55%. državna -25%, ostalo - 20%)</i></p> <p> lokalna <u>100</u>% regionalna <u> </u>% državna <u> </u>% međunarodna <u> </u>% ostalo, navesti: <u> </u>, <u> </u>% </p>	
<p>Koja su glavna pitanja/probemi trenutnog upravljanja vodosnabdjevanjem?</p> <p><i>(Molimo Vas rangirajte ih: 1 najznačajniji, 5 najmanje značajan, moguće je dodijeliti isti broj za maksimalno dva pitanja/problema)</i></p> <p> <input checked="" type="checkbox"/> Gubici <input type="checkbox"/> Količina <input type="checkbox"/> Kvalitet <input type="checkbox"/> Tarife vode <input type="checkbox"/> Zakonodavstvo i politički okvir <input type="checkbox"/> Nedostatak sredstava <input type="checkbox"/> Infrastruktura <input type="checkbox"/> Kapaciteti: <input type="checkbox"/> institucionalni <input type="checkbox"/> tehnički <input type="checkbox"/> ljudski <input type="checkbox"/> Klimatske promjene <input type="checkbox"/> Slaba saradnja <input type="checkbox"/> Ostalo, navesti: </p>	

Molimo Vas rangirajte sljedeće u pogledu prethodno navedenih pitanja/problema:
(Molimo Vas rangirajte ih: 1 najznačajniji, 5 najmanje značajan, moguće je dodijeliti isti broj za maksimalno dva pitanja/problema)

GUBICI

- ☒ neovlašćena potrošnja ☐ greške u mjerenju ☒ curenja u distributivnoj mreži
☒ curenja u distributivnoj mreži ☐ curenja u vodovodnim objektima
☐ ostalo, navesti

KOLIČINA

- ☐ povećanje korišćenja vode ☒ sezonske varijacije ☐ kapaciteti skladištenja vode
☐ promjene u praksi korišćenja zemljišta ☒ visoka potrošnja ostalih sektora (poljoprivredni, industrijski, itd.)
☐ klimatske promjene ☐ ostalo, navesti

KVALITET

- ☐ tačkasti izvori zagađenja ☐ netačkasti izvori zagađenja ☐ pitanja zaštite izvora
☐ promjene u praksi korišćenja zemljišta ☒ sezonske varijacije ☐ klimatske promjene
☐ ostalo, navesti

OGRANIČENJA U VODOSNABDJEVANJU

- ☒ neadekvatna mreža ☐ kapaciteti pumpnih stanica ☐ nedostatak rezervoara
☐ slabo održavanje vodovodnog distributivnog sistema ☒ dotrajalost
☐ ostalo, naznačiti

Koja su glavna ograničenja u upravljanju vodosnabdjevanjem u skorijoj budućnosti (sljedećih 25-30 godina)?
(Molimo Vas rangirajte ih: 1 najznačajniji, 5 najmanje značajan, moguće je dodijeliti isti broj za maksimalno dva pitanja/problema)

- ☒ Gubici ☐ Količina ☐ Kvalitet ☐ Tarife vode
☐ Zakonodavstvo i politički okvir ☒ Nedostatak sredstava ☐ Infrastruktura
☐ Kapaciteti: ☐ institucionalni ☐ tehnički ☐ ljudski
☐ Klimatske promjene ☐ Slaba saradnja ☐ Ostalo:

Koji su najvažniji koraci i aktivnosti koji mogu poboljšati vodosnabdjevanje u pogledu gore navedenih problema i ograničenja?

(Molimo Vas rangirajte ih: 1 najznačajniji, 5 najmanje značajan, moguće je dodijeliti isti broj za maksimalno dva pitanja/problema)

- ☐ Više informacija o uticaju klimatskih promjena na upravljanje vodnim resursima i buduće planiranje;
☐ Poboljšano znanje o neizvjesnostima koje utiču na mjere prilagođavanja klimatskim promjenama;
☒ Poboljšano znanje o budućoj raspoloživosti vodom i budućem planiranju
☐ Poboljšano znanje o uticaju prakse korišćenja zemljišta na vodovodne sisteme i definisanju zona sanitarne zaštite izvora;
☐ Poboljšano znanje o budućoj bezbjednosti vode
☒ Poboljšane prakse upravljanja prekograničnim vodovodnim sistemima;

- ☐ Razvoj opšteg protokola za prekogranične / regionalne sisteme vodosnabdjevanja i upravljanja vodnim resursima;
- ☒ Implementacija prioritenih mjera u cilju efikasnijeg i djelotvornijeg upravljanja vodovodnim sistemima i vodnim resursima;
- ☒ Realno vrijeme praćenja smanjenja gubitaka vode i curenja;
- ☒ Primjena savremenih metodologija za realno vrijeme praćenja: curenja, kvaliteta vode, rasporeda pumpi, itd.
- ☒ Razvoj WEB strane koja će poboljšati saradnju, razmjenu i transfer znanja relevantnog za upravljanje vodnim resursima i pitanja vezana za vodovodne sisteme;
- ☐ Ostalo, navesti:

Da li smatrate da se neka prioriteta pitanja mogu riješiti putem sljedećeg:

(Molimo Vas rangirati ih: 1 najznačajniji, 5 najmanje značajan, moguće je dodijeliti isti broj za maksimalno dva pitanja/problema)

- ☐ Politika koja će se baviti većinom pitanja
- ☐ Odvojene politike koje će se baviti većinom pitanja
- ☐ Bolja saradnja između različitih sektora
- ☐ Bolja saradnja između lokalne i državne vlasti
- ☒ Više finansijskih sredstava
- ☐ Tarife vode
- ☐ Ostalo, navesti:

Molimo Vas navedite 3 najznačajnija aktera/ aktivnosti za poboljšanje upravljanja vodosnabdjevanjem i vodnim resursima:

1. smanjenje gubitaka
2. rekonstrukcija, održavanje i sistematizacija
3. obezbjeđenje adekvatne količine vode

Koje su aktivnosti koje Vaša institucija/ organizacija može sprovesti u cilju poboljšanja upravljanja vodosnabdjevanjem i vodnim resursima i doprinjeti njihovoj održivosti?

1. simultano praćenje i primjena novih tehnologija na poboljšanje sistema vodosnabdjevanja (GIS, PIS i dr.)

Da li smatrate da samo aktivnosti na državnom nivou doprinose poboljšanju vodosnabdjevanja:

☐ DA ☒ NE

Ukoliko je odgovor NE molimo Vas navedite ostale institucionalne nivoe od značaja:

Vaše poznavanje/ znanje o ulozi i aktivnostima Bilateralnih komisija od značaja za upravljanje prekograničnim/regionalnim vodosnabdjevanjem i vodnim resursima:

☐ Sveobuhvatno ☒ Umjereno ☐ Nedovoljno

Vaše poznavanje/ znanje o ulozi i aktivnostima Lokalne vlasti od značaja za prekogranično/regionalno

vodosnabdjevanje:

☐ Sveobuhvatno ☒ Umjereno ☐ Nedovoljno

Da li postoje zakonski okviri (sporazumi, ugovori, Memorandum o razumijevanju, itd.) koji su od značaja za upravljanje prekograničnim/ regionalnim vodovodnim sistemima i vodnim resursima sa kojima ste upoznati u Vašoj zemlji/regionu:

☒ DA ☐ NE

Ukoliko je odgovor DA, navedite naziv

Vaša upoznatost sa pitanjima/ ograničenjima koja se odnose na prekogranične / regionalne vodne resurse:

☐ Sveobuhvatno ☒ Umjereno ☐ Nedovoljno

Molimo Vas dajte dodatne komentare ukoliko ih ima:

Nivo implementacije Planova upravljanja riječnim slivovima na nacionalnom nivou:

☐ Završen ☒ U toku ☐ Na čekanju

Molimo Vas dajte dodatne komentare ukoliko ih ima:

Nivo implementacije Planova upravljanja riječnim slivovima (prekogranični riječni slivovi):

☐ Završen ☒ U toku ☐ Na čekanju

Molimo Vas dajte dodatne komentare ukoliko ih ima:

Koje su najvažnije teme sa kojima biste željeli da se bolje upoznate u pogledu prekograničnih / regionalnih vodovodnih sistema i upravljanja vodnim resursima?

energetsko efikasnost vodovodnih sistema

Da li smatrate ovu vrstu radionica/okruglih stolova korisnim:

☒ Da ☐ Ne ☐ Neutralan

Ostali komentari:

QUESTIONNAIRE ON CROSS BORDER /REGIONAL WATER SUPPLY SYSTEMS AND WATER RESOURCES MANAGEMENT

The Capitalization and sustainability activity (CS) is an important project component that would provide framework for exchange of relevant information of significance for cross-border/ regional water supply systems among stakeholders, authorities, research institutions, etc.

Your feedbacks collected during the national workshops provide valuable inputs and contribute to successful DRINKADRIA project implementation.

Name:	VLADKO
Surname:	PERKOVIC
Institution/ Organization: (If you wish to remain anonymous, please do not fill)	D.P. Vodovod i Kanalizacija - NK

Your Institution/ Organization mission /main scope of the work:

☒ Water utility ☐ Authority : ☐ local ☐ regional ☐ national
☐ Research Organization ☐ Water Association ☐ Other (please specify):

Your activities are mainly focused on :

☒ water supply ☐ water protection ☒ education/research
☐ international cooperation ☐ financial/ legislative ☐ other, namely :

What spatial scale reflects the best your activities and tasks?
(Please use percentile estimation in a way that total amount is 100%)
Example: local -55%, national -25%, other - 20%)

local 80 % regional % national % international % other, namely : 20 , %

What are the main water supply management issues/ problems at the present?
(Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

☒ Losses ☒ Quantity ☐ Quality ☐ Water tariffs
☐ legislation and policy framework ☒ Lack of funding ☐ Infrastructure
☐ Capacities : ☐ institutional ☐ technical ☐ human
☐ Climate change ☐ Weak Cooperation ☐ Other, namely :

Please rank the following in terms of before mentioned issues/problems:
(Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

LOSSES

- ☒ 2 unauthorized consumption ☐ metering errors ☒ 4 distribution network leakage
☐ distribution network leakage ☐ water supply facilities leakage
☒ 3 other, please specify

QUANTITY

- ☐ increase in water use ☒ 4 seasonal fluctuations ☐ water storage capacities
☐ changes in land use practices ☐ high consumption by other sectors (agriculture, industry, etc)
☒ 2 Climate Change ☒ 3 other, please specify

QUALITY

- ☐ point source pollution ☐ nonpoint source pollution ☐ source protection issues
☐ changes in land use practices ☒ 4 seasonal fluctuations ☒ 2 Climate Change
☒ 3 other, please specify

WATER SUPPLY DISTRIBUTION CONSTRAINTS

- ☒ 3 inadequate network ☐ pumping stations capacities ☐ reservoirs deficiency
☐ poor maintenance of water supply distribution system ☒ 4 ageing
☒ 3 other, please specify

What are the main water supply management constraints in the near future (next 25-30 years)?
(Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

- ☒ 2 Losses ☐ Quantity ☐ Quality ☐ Water tariffs
☐ legislation and policy framework ☒ 4 Lack of funding ☒ 3 Infrastructure
☐ Capacities : ☐ institutional ☐ technical ☐ human
☐ Climate change ☐ Weak Cooperation ☐ Other, namely

What are the most important steps and activities that would improve water supply in terms of aforementioned issues and constraints?

— SMANIVATIK GUBITAKA
 — PODIZANJE SVIJEŠTI PRIJANA

Do you think that some cross-cutting issues can be solved by:

(Please rank them: 1 the most significant, 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

- ☐ Policy that would address the majority of issues
☐ Separate policies that would address the majority of issues

☐ Better cooperation among different sectors
☒ Better cooperation among local and national authorities
☐ More financial resources
☐ Water tariffs
☒ Other, namely :

Please list the 3 most significant actors/ actions for improved water supply and water resources management:

- ODABIR PRAVILNE STRATEGIJE
 - FINANSIJSKA PODRŠKA
 - INTEGRALNI PRISTUP

What are the actions that your institution/ organization might take to improve water supply and water resources management and contribute to its sustainability?

- PODIZAN SVESTI GRAĐANIN O VAŽNOSTI VODE
 - SHANJE GUBITAKA

Do you think that only state activities contribute to improved water supply:

☐ YES ☒ No
 If the answer is NO please list other institutional levels of significance:
 REGIONALNI, OPŠTINSKI

Your familiarity/ knowledge with role and activities of Bilateral Commissions of significance for cross – border/ regional water supply and water resources management:

☐ Comprehensive ☐ Moderate ☒ Deficient

Your familiarity/ knowledge with role and activities of Local Authorities of significance for cross – border/ regional water supply:

☐ Comprehensive ☐ Moderate ☐ Deficient

Are there legislative frameworks (treaties, agreements, Memorandum of Understanding, etc.) that are significant for cross-border/ regional water supply systems and water resource management you are familiar with in your country/region:

☐ YES ☒ No
 If the answer is yes, please provide the title

Your familiarity with issues/ constraints regarding cross- border / regional water resources:

☐ Comprehensive ☐ Moderate ☒ Deficient

Please provide additional comments if any:

Implementation level of River basin Management Plans at the national level:

☐ Completed ☒ Ongoing ☐ Pending

Please provide additional comments if any:

Implementation level of River basin Management Plans (transboundary river basins) :

☐ Completed ☒ Ongoing ☐ Pending

Please provide additional comments if any:

What are the most important topics that you would like to become more familiar regarding to cross-border /regional water supply systems and water resources management?

NAČIN RADA I ORGANIZACIJA DRUGIH VODOV. SISTEMA

Do you consider this type of workshops/roundtables useful:

☒ Yes ☐ No ☐ Neutral

Additional Comments:

UPITNIK O UPRAVLJANJU PREKOGRANIČNIM /REGIONALNIM VODOVODNIM SISTEMIMA I VODNIM RESURSIMA

Aktivnost koja se odnosi na kapitalizaciju i održivost (CS) je važna projektna komponenta koja će pružiti okvir za razmjenu relevantnih informacija od značaja za prekogranične/ regionalne vodovodne sisteme između interesnih strana, organa vlasti, istraživačkih institucija, itd.

Vaše povratne informacije prikupljene tokom održavanja nacionalnih radionica će dati važan input i doprinos uspješnoj realizaciji DRINKADRIA projekta.

Ime:	Božo Arkanović
Prezime:	
Institucija/ Organizacija: (Ako želite da ostanete anonimni, molimo Vas da ne popunjavate)	VIK D.O.O. Podgorica

Misija/glavno polje djelovanja Vaše Institucije/Organizacije:

☒ Vodovodno preduzeće ☐ Organ vlasti: ☐ lokalni ☐ regionalni ☐ državni
☐ Istraživačka organizacija ☐ Vodovodno udruženje ☐ Ostalo (molimo naznačite):

Vaše aktivnosti su uglavnom fokusirane na:

☒ vodosnabdjevanju ☐ zaštiti voda ☐ obrazovanju/istraživanju
☐ međunarodnoj saradnji ☐ finansijama/ zakonodavstvu ☐ ostalo, navedite:

Koja prostorna skala najbolje odražava Vaše aktivnosti i zadatke?

Molimo Vas koristite procentualnu procjenu tako da je ukupni iznos 100%

Primjer: lokalna -55%, državna -25%, ostalo - 20%)

lokalna 60% regionalna 20% državna 20% međunarodna _ % ostalo, navesti: ____, _ %

Koja su glavna pitanja/problemi trenutnog upravljanja vodosnabdjevanjem?

(Molimo Vas rangirajte ih: 1 najznačajniji, 5 najmanje značajan, moguće je dodijeliti isti broj za maksimalno dva pitanja/problema)

☒ Gubici ☐ Količina ☒ Kvalitet ☒ Tarife vode
☒ Zakonodavstvo i politički okvir ☒ Nedostatak sredstava ☐ Infrastruktura
☒ Kapaciteti: ☐ institucionalni ☐ tehnički ☐ ljudski
☒ Klimatske promjene ☐ Slaba saradnja ☐ Ostalo, navesti:

Molimo Vas rangirajte sljedeće u pogledu prethodno navedenih pitanja/problema:

(Molimo Vas rangirajte ih: 1 najznačajniji, 5 najmanje značajan, moguće je dodijeliti isti broj za maksimalno dva pitanja/problema)

GUBICI

- ☒ 1 neovlašćena potrošnja ☒ 3 greške u mjerenju ☒ 4 curenja u distributivnoj mreži
☐ curenja u distributivnoj mreži ☒ 2 curenja u vodovodnim objektima
☐ ostalo, navesti

KOLIČINA

- ☒ 4 povećanje korišćenja vode ☒ 2 sezonske varijacije ☐ kapaciteti skladištenja vode
☐ promjene u praksi korišćenja zemljišta ☒ 3 visoka potrošnja ostalih sektora (poljoprivredni, industrijski, itd.)
☐ klimatske promjene ☐ ostalo, navesti

KVALITET

- ☐ tačkasti izvori zagađenja ☐ netačkasti izvori zagađenja ☐ pitanja zaštite izvora
☐ promjene u praksi korišćenja zemljišta ☐ sezonske varijacije ☐ klimatske promjene
☐ ostalo, navesti

OGRANIČENJA U VODOSNABDJEVANJU

- ☐ neadekvatna mreža ☐ kapaciteti pumpnih stanica ☐ nedostatak rezervoara
☐ slabo održavanje vodovodnog distributivnog sistema ☐ dotrajalost
☐ ostalo, naznačiti

Koja su glavna ograničenja u upravljanju vodosnabdjevanjem u skorijoj budućnosti (sljedećih 25-30 godina)?
(Molimo Vas rangirajte ih: 1 najznačajniji, 5 najmanje značajan, moguće je dodijeliti isti broj za maksimalno dva pitanja/problema)

- ☒ 1 Gubici ☒ 2 Količina ☐ Kvalitet ☒ 3 Tarife vode
☐ Zakonodavstvo i politički okvir ☐ Nedostatak sredstava ☐ Infrastruktura
☐ Kapaciteti: ☐ institucionalni ☐ tehnički ☐ ljudski
☒ Klimatske promjene ☐ Slaba saradnja ☐ Ostalo:

Koji su najvažniji koraci i aktivnosti koji mogu poboljšati vodosnabdjevanje u pogledu gore navedenih problema i ograničenja?

(Molimo Vas rangirajte ih: 1 najznačajniji, 5 najmanje značajan, moguće je dodijeliti isti broj za maksimalno dva pitanja/problema)

- ☐ Više informacija o uticaju klimatskih promjena na upravljanje vodnim resursima i buduće planiranje;
☐ Poboljšano znanje o neizvjesnostima koje utiču na mjere prilagođavanja klimatskim promjenama;
☒ Poboljšano znanje o budućoj raspoloživosti vodom i budućem planiranju
☐ Poboljšano znanje o uticaju prakse korišćenja zemljišta na vodovodne sisteme i definisanju zona sanitarne zaštite izvora;
☐ Poboljšano znanje o budućoj bezbjednosti vode
☐ Poboljšane prakse upravljanja prekograničnim vodovodnim sistemima;

- ☐ Razvoj opšteg protokola za prekogranične / regionalne sisteme vodosnabdjevanja i upravljanja vodnim resursima;
- ☒ Implementacija prioritenih mjera u cilju efikasnijeg i djelotvornijeg upravljanja vodovodnim sistemima i vodnim resursima;
- ☒ Realno vrijeme praćenja smanjenja gubitaka vode i curenja;
- ☒ Primjena savremenih metodologija za realno vrijeme praćenja: curenja, kvaliteta vode, rasporeda pumpi, itd.
- ☐ Razvoj WEB strane koja će poboljšati saradnju, razmjenu i transfer znanja relevantnog za upravljanje vodnim resursima i pitanja vezana za vodovodne sisteme;
- ☐ Ostalo, navesti:

Da li smatrate da se neka prioritetna pitanja mogu riješiti putem sljedećeg:

(Molimo Vas rangirajte ih: 1 najznačajniji, 5 najmanje značajan, moguće je dodijeliti isti broj za maksimalno dva pitanja/problema)

- ☐ Politika koja će se baviti većinom pitanja
- ☐ Odvojene politike koje će se baviti većinom pitanja
- ☒ Bolja saradnja između različitih sektora
- ☐ Bolja saradnja između lokalne i državne vlasti
- ☐ Više finansijskih sredstava
- ☐ Tarife vode
- ☐ Ostalo, navesti:

Molimo Vas navedite 3 najznačajnija aktera/ aktivnosti za poboljšanje upravljanja vodosnabdjevanjem i vodnim resursima:

Jačanje kapaciteta, Komor, Tehničko pomoćništvo

Koje su aktivnosti koje Vaša institucija/ organizacija može sprovesti u cilju poboljšanja upravljanja vodosnabdjevanjem i vodnim resursima i doprinjeti njihovoj održivosti?

Bolja Komorska Resursa, Akademska, Inženjerske, cijena privrednih garancija

Da li smatrate da samo aktivnosti na državnom nivou doprinose poboljšanju vodosnabdjevanja:

☒ DA ☐ NE

Ukoliko je odgovor NE molimo Vas navedite ostale institucionalne nivoe od značaja:

Vaše poznavanje/ znanje o ulozi i aktivnostima Bilateralnih komisija od značaja za upravljanje prekograničnim/regionalnim vodosnabdjevanjem i vodnim resursima:

☐ Sveobuhvatno ☒ Umjereno ☐ Nedovoljno

Vaše poznavanje/ znanje o ulozi i aktivnostima Lokalne vlasti od značaja za prekogranično/regionalno

<p>vodosnabdjevanje:</p> <p><input checked="" type="checkbox"/> Sveobuhvatno <input type="checkbox"/> Umjereno <input type="checkbox"/> Nedovoljno</p>
<p>Da li postoje zakonski okviri (sporazumi, ugovori, Memorandum o razumijevanju, itd.) koji su od značaja za upravljanje prekograničnim/ regionalnim vodovodnim sistemima i vodnim resursima sa kojima ste upoznati u Vašoj zemlji/regionu:</p> <p><input checked="" type="checkbox"/> DA <input type="checkbox"/> NE</p> <p>Ukoliko je odgovor DA, navedite naziv</p>
<p>Vaša upoznatost sa pitanjima/ ograničenjima koja se odnose na prekogranične / regionalne vodne resurse:</p> <p><input type="checkbox"/> Sveobuhvatno <input checked="" type="checkbox"/> Umjereno <input type="checkbox"/> Nedovoljno</p> <p>Molimo Vas dajte dodatne komentare ukoliko ih ima:</p>
<p>Nivo implementacije Planova upravljanja riječnim slivovima na nacionalnom nivou:</p> <p><input type="checkbox"/> Završen <input checked="" type="checkbox"/> U toku <input type="checkbox"/> Na čekanju</p> <p>Molimo Vas dajte dodatne komentare ukoliko ih ima:</p>
<p>Nivo implementacije Planova upravljanja riječnim slivovima (prekogranični riječni slivovi):</p> <p><input type="checkbox"/> Završen <input checked="" type="checkbox"/> U toku <input type="checkbox"/> Na čekanju</p> <p>Molimo Vas dajte dodatne komentare ukoliko ih ima:</p>
<p>Koje su najvažnije teme sa kojima biste željeli da se bolje upoznate u pogledu prekograničnih /regionalnih vodovodnih sistema i upravljanja vodnim resursima?</p> <p><i>Regulacije, projekat, održivost, cijena</i></p>
<p>Da li smatrate ovu vrstu radionica/okruglih stolova korisnim:</p> <p><input checked="" type="checkbox"/> Da <input type="checkbox"/> Ne <input type="checkbox"/> Neutralan</p>
<p>Ostali komentari:</p>

UPITNIK O UPRAVLJANJU PREKOGRANIČNIM /REGIONALNIM VODOVODNIM SISTEMIMA I VODNIM RESURSIMA

Aktivnost koja se odnosi na kapitalizaciju i održivost (CS) je važna projektna komponenta koja će pružiti okvir za razmjenu relevantnih informacija od značaja za prekogranične/ regionalne vodovodne sisteme između interesnih strana, organa vlasti, istraživačkih institucija, itd.

Vaše povratne informacije prikupljene tokom održavanja nacionalnih radionica će dati važan input i doprinos uspješnoj realizaciji DRINKADRIA projekta.

Ime:	RIFCIT
Prezime:	DOZOLIC
Institucija/ Organizacija: (Ako želite da ostanete anonimni, molimo Vas da ne popunjavate)	J.P. Vodovod i Kanalizacija ROZAJE

Misija/glavno polje djelovanja Vaše Institucije/Organizacije:

☒ Vodovodno preduzeće ☐ Organ vlasti: ☐ lokalni ☐ regionalni ☐ državni
☐ Istraživačka organizacija ☐ Vodovodno udruženje ☐ Ostalo (molimo naznačite):

Vaše aktivnosti su uglavnom fokusirane na:

☒ vodosnabdjevanju ☐ zaštiti voda ☐ obrazovanju/istraživanju
☐ međunarodnoj saradnji ☐ finasijama/ zakonodavstvu ☐ ostalo, navedite:

Koja prostorna skala najbolje odražava Vaše aktivnosti i zadatke?
 Molimo Vas koristite procentualnu procjenu tako da je ukupni iznos 100%
 Primjer: lokalna -55%, državna -25%, ostalo - 20%)

lokalna 90% regionalna % državna 10% međunarodna % ostalo, navesti: , %

Koja su glavna pitanja/problemi trenutnog upravljanja vodosnabdjevanjem?
 (Molimo Vas rangirajte ih: 1 najznačajniji, 5 najmanje značajan, moguće je dodijeliti isti broj za maksimalno dva pitanja/problema)

☒ Gubici ☐ Količina ☒ Kvalitet ☐ Tarife vode
☐ Zakonodavstvo i politički okvir ☒ Nedostatak sredstava ☐ Infrastruktura
☐ Kapaciteti: ☐ institucionalni ☐ tehnički ☒ ljudski
☒ Klimatske promjene ☐ Slaba saradnja ☐ Ostalo, navesti:

Molimo Vas rangirajte sljedeće u pogledu prethodno navedenih pitanja/problema:

(Molimo Vas rangirajte ih: 1 najznačajniji, 5 najmanje značajan, moguće je dodijeliti isti broj za maksimalno dva pitanja/problema)

GUBICI

- ☒ neovlašćena potrošnja ☐ greške u mjerenju ☐ curenja u distributivnoj mreži
☒ curenja u distributivnoj mreži ☐ curenja u vodovodnim objektima
☒ ostalo, navesti

KOLIČINA

- ☒ povećanje korišćenja vode ☒ sezonske varijacije ☒ kapaciteti skladištenja vode
☐ promjene u praksi korišćenja zemljišta ☒ visoka potrošnja ostalih sektora (poljoprivredni, industrijski, itd.)
☒ klimatske promjene ☐ ostalo, navesti

KVALITET

- ☒ tačkasti izvori zagađenja ☐ netačkasti izvori zagađenja ☒ pitanja zaštite izvora
☒ promjene u praksi korišćenja zemljišta ☒ sezonske varijacije ☒ klimatske promjene
☐ ostalo, navesti

OGRANIČENJA U VODOSNABDJEVANJU

- ☒ neadekvatna mreža ☐ kapaciteti pumpnih stanica ☒ nedostatak rezervoara
☒ slabo održavanje vodovodnog distributivnog sistema ☒ dotrajalost
☒ ostalo, naznačiti

Koja su glavna ograničenja u upravljanju vodosnabdjevanjem u skorijoj budućnosti (sljedećih 25-30 godina)?
(Molimo Vas rangirajte ih: 1 najznačajniji, 5 najmanje značajan, moguće je dodijeliti isti broj za maksimalno dva pitanja/problema)

- ☒ Gubici ☒ Količina ☐ Kvalitet ☐ Tarife vode
☐ Zakonodavstvo i politički okvir ☒ Nedostatak sredstava ☒ Infrastruktura
☒ Kapaciteti: ☐ institucionalni ☐ tehnički ☐ ljudski
☐ Klimatske promjene ☐ Slaba saradnja ☐ Ostalo:

Koji su najvažniji koraci i aktivnosti koji mogu poboljšati vodosnabdjevanje u pogledu gore navedenih problema i ograničenja?

(Molimo Vas rangirajte ih: 1 najznačajniji, 5 najmanje značajan, moguće je dodijeliti isti broj za maksimalno dva pitanja/problema)

- ☒ Više informacija o uticaju klimatskih promjena na upravljanje vodnim resursima i buduće planiranje;
☒ Poboljšano znanje o neizvjesnostima koje utiču na mjere prilagođavanja klimatskim promjenama;
☒ Poboljšano znanje o budućoj raspoloživosti vodom i budućem planiranju
☐ Poboljšano znanje o uticaju prakse korišćenja zemljišta na vodovodne sisteme i definisanju zona sanitarne zaštite izvora;
☒ Poboljšano znanje o budućoj bezbjednosti vode
☒ Poboljšane prakse upravljanja prekograničnim vodovodnim sistemima;

- ☒ Razvoj opšteg protokola za prekogranične / regionalne sisteme vodosnabdjevanja i upravljanja vodnim resursima;
- ☒ Implementacija prioritenih mjera u cilju efikasnijeg i djelotvornijeg upravljanja vodovodnim sistemima i vodnim resursima;
- ☒ Realno vrijeme praćenja smanjenja gubitaka vode i curenja;
- ☒ Primjena savremenih metodologija za realno vrijeme praćenja: curenja, kvaliteta vode, rasporeda pumpi, itd.
- ☒ Razvoj WEB strane koja će poboljšati saradnju, razmjenu i transfer znanja relevantnog za upravljanje vodnim resursima i pitanja vezana za vodovodne sisteme;
- ☐ Ostalo, navesti:

Da li smatrate da se neka prioritetna pitanja mogu riješiti putem sljedećeg:

(Molimo Vas rangirajte ih: 1 najznačajniji, 5 najmanje značajan, moguće je dodijeliti isti broj za maksimalno dva pitanja/problema)

- ☒ Politika koja će se baviti većinom pitanja
- ☒ Odvojene politike koje će se baviti većinom pitanja
- ☒ Bolja saradnja između različitih sektora
- ☒ Bolja saradnja između lokalne i državne vlasti
- ☒ Više finansijskih sredstava
- ☐ Tarife vode
- ☐ Ostalo, navesti:

Molimo Vas navedite 3 najznačajnija aktera/ aktivnosti za poboljšanje upravljanja vodosnabdjevanjem i vodnim resursima:

PROŠIRENJE DEKENTRALIZIRANOG JAVNOG REKONSTRUKCIJSKOG PRIKAPLJENJA VODOVNE MREŽE I REKONSTRUKCIJA SEKUNDARNE VODOVNE MREŽE

Koje su aktivnosti koje Vaša institucija/ organizacija može sprovesti u cilju poboljšanja upravljanja vodosnabdjevanjem i vodnim resursima i doprinjeti njihovoj održivosti?

SAHITANJE I BLOKIRANJE NEPOKLONJIVOSTI IZGRADNJE NA MREŽI.

Da li smatrate da samo aktivnosti na državnom nivou doprinose poboljšanju vodosnabdjevanja:

☐ DA ☒ NE

Ukoliko je odgovor NE molimo Vas navedite ostale institucionalne nivoe od značaja: LOKALNA UPRAVA

Vaše poznavanje/ znanje o ulozi i aktivnostima Bilateralnih komisija od značaja za upravljanje prekograničnim/regionalnim vodosnabdjevanjem i vodnim resursima:

☐ Sveobuhvatno ☒ Umjereno ☐ Nedovoljno

Vaše poznavanje/ znanje o ulozi i aktivnostima Lokalne vlasti od značaja za prekogranično/regionalno

<p>vodosnabdjevanje:</p> <p><input type="checkbox"/> Sveobuhvatno <input checked="" type="checkbox"/> Umjereno <input type="checkbox"/> Nedovoljno</p>
<p>Da li postoje zakonski okviri (sporazumi, ugovori, Memorandum o razumijevanju, itd.) koji su od značaja za upravljanje prekograničnim/ regionalnim vodovodnim sistemima i vodnim resursima sa kojima ste upoznati u Vašoj zemlji/regionu:</p> <p><input type="checkbox"/> DA <input checked="" type="checkbox"/> NE</p> <p>Ukoliko je odgovor DA, navedite naziv</p>
<p>Vaša upoznatost sa pitanjima/ ograničenjima koja se odnose na prekogranične / regionalne vodne resurse:</p> <p><input type="checkbox"/> Sveobuhvatno <input checked="" type="checkbox"/> Umjereno <input type="checkbox"/> Nedovoljno</p> <p>Molimo Vas dajte dodatne komentare ukoliko ih ima:</p>
<p>Nivo implementacije Planova upravljanja riječnim slivovima na nacionalnom nivou:</p> <p><input type="checkbox"/> Završen <input checked="" type="checkbox"/> U toku <input type="checkbox"/> Na čekanju</p> <p>Molimo Vas dajte dodatne komentare ukoliko ih ima:</p>
<p>Nivo implementacije Planova upravljanja riječnim slivovima (prekogranični riječni slivovi):</p> <p><input type="checkbox"/> Završen <input checked="" type="checkbox"/> U toku <input type="checkbox"/> Na čekanju</p> <p>Molimo Vas dajte dodatne komentare ukoliko ih ima:</p>
<p>Koje su najvažnije teme sa kojima biste željeli da se bolje upoznate u pogledu prekograničnih /regionalnih vodovodnih sistema i upravljanja vodnim resursima?</p>
<p>Da li smatrate ovu vrstu radionica/okruglih stolova korisnim:</p> <p><input checked="" type="checkbox"/> Da <input type="checkbox"/> Ne <input type="checkbox"/> Neutralan</p>
<p>Ostali komentari:</p>

UPITNIK O UPRAVLJANJU PREKOGRANIČNIM /REGIONALNIM VODOVODNIM SISTEMIMA I VODNIM RESURSIMA

Aktivnost koja se odnosi na kapitalizaciju i održivost (CS) je važna projektna komponenta koja će pružiti okvir za razmjenu relevantnih informacija od značaja za prekogranične/ regionalne vodovodne sisteme između interesnih strana, organa vlasti, istraživačkih institucija, itd.

Vaše povratne informacije prikupljene tokom održavanja nacionalnih radionica će dati važan input i doprinos uspješnoj realizaciji DRINKADRIA projekta.

Ime:	<i>Satet</i>
Prezime:	<i>Murid</i>
Institucija/ Organizacija: (Ako želite da ostanete anonimni, molimo Vas da ne popunjavate)	<i>JP "Vodovod i Kanalizacija" Rotor</i>

Misija/glavno polje djelovanja Vaše Institucije/Organizacije:

☒ Vodovodno preduzeće ☐ Organ vlasti: ☐ lokalni ☐ regionalni ☐ državni
☐ Istraživačka organizacija ☐ Vodovodno udruženje ☐ Ostalo (molimo naznačite):

Vaše aktivnosti su uglavnom fokusirane na:

☒ vodosnabdjevanju ☐ zaštiti voda ☐ obrazovanju/istraživanju
☐ međunarodnoj saradnji ☐ finansijama/ zakonodavstvu ☐ ostalo, navedite:

Koja prostorna skala najbolje odražava Vaše aktivnosti i zadatke?
 Molimo Vas koristite procentualnu procjenu tako da je ukupni iznos 100%
 Primjer: lokalna -55%, državna -25%, ostalo - 20%)

lokalna *80%* regionalna *0%* državna *0%* međunarodna *0%* ostalo, navesti: *20*, *0* %

Koja su glavna pitanja/problemi trenutnog upravljanja vodosnabdjevanjem?
 (Molimo Vas rangirajte ih: 1 najznačajniji, 5 najmanje značajan, moguće je dodijeliti isti broj za maksimalno dva pitanja/problema)

☒ 1 Gubici ☒ 5 Količina ☒ 3 Kvalitet ☒ 4 Tarife vode
☒ 4 Zakonodavstvo i politički okvir ☒ 2 Nedostatak sredstava ☒ 2 Infrastruktura
☒ 3 Kapaciteti: ☒ institucionalni ☒ tehnički ☒ ljudski
☐ Klimatske promjene ☒ 1 Slaba saradnja ☐ Ostalo, navesti:

Molimo Vas rangirajte sljedeće u pogledu prethodno navedenih pitanja/problema:

(Molimo Vas rangirajte ih: 1 najznačajniji, 5 najmanje značajan, moguće je dodijeliti isti broj za maksimalno dva pitanja/problema)

GUBICI

- ☒ neovlašćena potrošnja ☒ greške u mjerenju ☐ curenja u distributivnoj mreži
☒ curenja u distributivnoj mreži ☒ curenja u vodovodnim objektima
☐ ostalo, navesti

KOLIČINA

- ☒ povećanje korišćenja vode ☒ sezonske varijacije ☒ kapaciteti skladištenja vode
☐ promjene u praksi korišćenja zemljišta ☐ visoka potrošnja ostalih sektora (poljoprivredni, industrijski, itd.)
☐ klimatske promjene ☐ ostalo, navesti

KVALITET

- ☒ tačkasti izvori zagađenja ☒ netačkasti izvori zagađenja ☒ pitanja zaštite izvora
☐ promjene u praksi korišćenja zemljišta ☒ sezonske varijacije ☐ klimatske promjene
☐ ostalo, navesti

OGRANIČENJA U VODOSNABDJEVANJU

- ☒ neadekvatna mreža ☐ kapaciteti pumpnih stanica ☒ nedostatak rezervoara
☒ slabo održavanje vodovodnog distributivnog sistema ☒ dotrajalost
☐ ostalo, naznačiti

Koja su glavna ograničenja u upravljanju vodosnabdjevanjem u skorijoj budućnosti (sljedećih 25-30 godina)?

(Molimo Vas rangirajte ih: 1 najznačajniji, 5 najmanje značajan, moguće je dodijeliti isti broj za maksimalno dva pitanja/problema)

- ☒ 1 Gubici ☒ 3 Količina ☒ 3 Kvalitet ☒ 4 Tarife vode
☒ 2 Zakonodavstvo i politički okvir ☒ 2 Nedostatak sredstava ☒ 4 Infrastruktura
☒ 4 Kapaciteti: ☐ institucionalni ☒ tehnički ☒ ljudski
☐ Klimatske promjene ☒ 5 Slaba saradnja ☐ Ostalo:

Koji su najvažniji koraci i aktivnosti koji mogu poboljšati vodosnabdjevanje u pogledu gore navedenih problema i ograničenja?

(Molimo Vas rangirajte ih: 1 najznačajniji, 5 najmanje značajan, moguće je dodijeliti isti broj za maksimalno dva pitanja/problema)

- ☒ Više informacija o uticaju klimatskih promjena na upravljanje vodnim resursima i buduće planiranje;
☒ Poboljšano znanje o neizvjesnostima koje utiču na mjere prilagođavanja klimatskim promjenama;
☒ Poboljšano znanje o budućoj raspoloživosti vodom i budućem planiranju
☒ Poboljšano znanje o uticaju prakse korišćenja zemljišta na vodovodne sisteme i definisanju zona sanitarne zaštite izvora;
☒ Poboljšano znanje o budućoj bezbjednosti vode
☒ Poboljšane prakse upravljanja prekograničnim vodovodnim sistemima;

- ☒ Razvoj opšteg protokola za prekogranične / regionalne sisteme vodosnabdjevanja i upravljanja vodnim resursima;
- ☒ Implementacija prioritenih mjera u cilju efikasnijeg i djelotvornijeg upravljanja vodovodnim sistemima i vodnim resursima;
- ☒ Realno vrijeme praćenja smanjenja gubitaka vode i curenja;
- ☒ Primjena savremenih metodologija za realno vrijeme praćenja: curenja, kvaliteta vode, rasporeda pumpi, itd.
- ☒ Razvoj WEB strane koja će poboljšati saradnju, razmjenu i transfer znanja relevantnog za upravljanje vodnim resursima i pitanja vezana za vodovodne sisteme;
- ☐ Ostalo, navesti:

Da li smatrate da se neka prioritetna pitanja mogu riješiti putem sljedećeg:

(Molimo Vas rangirajte ih: 1 najznačajniji, 5 najmanje značajan, moguće je dodijeliti isti broj za maksimalno dva pitanja/problema)

- ☒ Politika koja će se baviti većinom pitanja
- ☒ Odvojene politike koje će se baviti većinom pitanja
- ☒ Bolja saradnja između različitih sektora
- ☒ Bolja saradnja između lokalne i državne vlasti
- ☒ Više finansijskih sredstava
- ☒ Tarife vode
- ☒ Ostalo, navesti:

Molimo Vas navedite 3 najznačajnija aktera/ aktivnosti za poboljšanje upravljanja vodosnabdjevanjem i vodnim resursima:

1. Linousije
2. Gubici
3. Zastita

Koje su aktivnosti koje Vaša institucija/ organizacija može sprovesti u cilju poboljšanja upravljanja vodosnabdjevanjem i vodnim resursima i doprinjeti njihovoj održivosti?

Zbog nedostatka finansijskih sredstava vrlo osim trenutnog održavanja (trenutno).

Da li smatrate da samo aktivnosti na državnom nivou doprinose poboljšanju vodosnabdjevanja:

☐ DA ☒ NE

Ukoliko je odgovor NE molimo Vas navedite ostale institucionalne nivoe od značaja:

Aktivnosti na općinskom i na lokalnom nivou.

Vaše poznavanje/ znanje o ulozi i aktivnostima Bilateralnih komisija od značaja za upravljanje prekograničnim/regionalnim vodosnabdjevanjem i vodnim resursima:

☐ Sveobuhvatno ☐ Umjereno ☒ Nedovoljno

Vaše poznavanje/ znanje o ulozi i aktivnostima Lokalne vlasti od značaja za prekogranično/regionalno

<p>vodosnabdjevanje:</p> <p><input type="checkbox"/> Sveobuhvatno <input type="checkbox"/> Umjereno <input checked="" type="checkbox"/> Nedovoljno</p>
<p>Da li postoje zakonski okviri (sporazumi, ugovori, Memorandum o razumijevanju, itd.) koji su od značaja za upravljanje prekograničnim/ regionalnim vodovodnim sistemima i vodnim resursima sa kojima ste upoznati u Vašoj zemlji/regionu:</p> <p><input type="checkbox"/> DA <input checked="" type="checkbox"/> NE</p> <p>Ukoliko je odgovor DA, navedite naziv</p>
<p>Vaša upoznatost sa pitanjima/ ograničenjima koja se odnose na prekogranične / regionalne vodne resurse:</p> <p><input type="checkbox"/> Sveobuhvatno <input checked="" type="checkbox"/> Umjereno <input type="checkbox"/> Nedovoljno</p> <p>Molimo Vas dajte dodatne komentare ukoliko ih ima:</p>
<p>Nivo implementacije Planova upravljanja riječnim slivovima na nacionalnom nivou:</p> <p><input type="checkbox"/> Završen <input type="checkbox"/> U toku <input checked="" type="checkbox"/> Na čekanju</p> <p>Molimo Vas dajte dodatne komentare ukoliko ih ima:</p>
<p>Nivo implementacije Planova upravljanja riječnim slivovima (prekogranični riječni slivovi):</p> <p><input type="checkbox"/> Završen <input type="checkbox"/> U toku <input checked="" type="checkbox"/> Na čekanju</p> <p>Molimo Vas dajte dodatne komentare ukoliko ih ima:</p>
<p>Koje su najvažnije teme sa kojima biste željeli da se bolje upoznate u pogledu prekograničnih /regionalnih vodovodnih sistema i upravljanja vodnim resursima?</p>
<p>Da li smatrate ovu vrstu radionica/okruglih stolova korisnim:</p> <p><input checked="" type="checkbox"/> Da <input type="checkbox"/> Ne <input type="checkbox"/> Neutralan</p>
<p>Ostali komentari:</p>

QUESTIONNAIRE ON CROSS BORDER /REGIONAL WATER SUPPLY SYSTEMS AND WATER RESOURCES MANAGEMENT

The Capitalization and sustainability activity (CS) is an important project component that would provide framework for exchange of relevant information of significance for cross- border/ regional water supply systems among stakeholders, authorities, research institutions, etc.

Yours feedbacks collected during the national workshops provide valuable inputs and contribute to successful DRINKADRIA project implementation.

Name:	Tijana
Surname:	Vesvodic
Institution/ Organization: (If you wish to remain anonymous, please do not fill)	Udruženje za unapređenje vodostaja i vodne i tretmana i odvođenje otpadne vode COZ
Your Institution/ Organization mission /main scope of the work:	
<input type="checkbox"/> Water utility <input type="checkbox"/> Authority : <input type="checkbox"/> local <input type="checkbox"/> regional <input type="checkbox"/> national <input type="checkbox"/> Research Organization <input checked="" type="checkbox"/> Water Association <input type="checkbox"/> Other (please specify):	
Your activities are mainly focused on :	
<input type="checkbox"/> water supply <input type="checkbox"/> water protection <input type="checkbox"/> education/research <input checked="" type="checkbox"/> international cooperation <input type="checkbox"/> financial/ legislative <input type="checkbox"/> other, namely :	
What spatial scale reflects the best your activities and tasks? (Please use percentile estimation in a way that total amount is 100% Example: local -55%. national -25%, other - 20%)	
local 10% regional 20% national 50% international 20% other, namely : _____, _%	
What are the main water supply management issues/ problems at the present? (Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)	
<input checked="" type="checkbox"/> Losses <input type="checkbox"/> Quantity <input type="checkbox"/> Quality <input type="checkbox"/> Water tariffs <input type="checkbox"/> legislation and policy framework <input checked="" type="checkbox"/> Lack of funding <input checked="" type="checkbox"/> Infrastructure <input type="checkbox"/> Capacities : <input type="checkbox"/> institutional <input type="checkbox"/> technical <input type="checkbox"/> human <input type="checkbox"/> Climate change <input type="checkbox"/> Weak Cooperation <input type="checkbox"/> Other, namely :	

Please rank the following in terms of before mentioned issues/problems:

(Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

LOSSES

- 1 ☒ unauthorized consumption ☐ metering errors 2 ☒ distribution network leakage
☒ distribution network leakage ☒ water supply facilities leakage
☐ other, please specify

QUANTITY

- 4 ☒ increase in water use 2 ☒ seasonal fluctuations ☐ water storage capacities
☐ changes in land use practices ☒ high consumption by other sectors (agriculture, industry, etc)
☒ Climate Change ☐ other, please specify

QUALITY

- ☒ point source pollution ☐ nonpoint source pollution ☐ source protection issues
☐ changes in land use practices ☒ seasonal fluctuation ☐ Climate Change
☐ other, please specify

WATER SUPPLY DISTRIBUTION CONSTRAINS

- ☐ inadequate network ☒ pumping stations capacities ☒ reservoirs deficiency
☐ poor maintenance of water supply distribution system ☐ ageing
☐ other, please specify

What are the main water supply management constrains in the near future (next 25- 30 years) ?

(Please rank them: 1 the most significant , 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

- ☐ Losses 2 ☒ Quantity ☐ Quality 4 ☐ Water tariffs
☐ legislation and policy framework 2 ☐ Lack of funding ☐ Infrastructure
☒ Capacities : ☐ institutional ☐ technical ☒ human
☒ Climate change ☐ Weak Cooperation ☐ Other, namely

What are the most important steps and activities that would improve water supply in terms of aforementioned issues and constrains?

Reconstructions of watersupply network and cubing losses on distributions network

Do you think that some cross-cutting issues can be solved by:

(Please rank them: 1 the most significant , 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

- 4 ☒ Policy that would address the majority of issues
☐ Separate policies that would address the majority of issues

<input type="checkbox"/> Better cooperation among different sectors <input checked="" type="checkbox"/> Better cooperation among local and national authorities <input checked="" type="checkbox"/> More financial resources <input checked="" type="checkbox"/> Water tariffs <input type="checkbox"/> Other, namely :
<p>Please list the 3 most significant actors/ actions for improved water supply and water resources management:</p> <p>1. Detercija nelegalnih potrošača. 2. 3. Izumje ne vodovjere horizontalno očistavanje</p>
<p>What are the actions that your institution/ organization might take to improve water supply and water resources management and contribute to its sustainability?</p>
<p>Do you think that only state activities contribute to improved water supply:</p> <p><input checked="" type="checkbox"/> YES <input type="checkbox"/> No</p> <p>If the answer is NO please list other institutional levels of significance:</p>
<p>Your familiarity/ knowledge with role and activities of Bilateral Commissions of significance for cross – border/ regional water supply and water resources management:</p> <p><input checked="" type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input type="checkbox"/> Deficient</p>
<p>Your familiarity/ knowledge with role and activities of Local Authorities of significance for cross – border/ regional water supply:</p> <p><input checked="" type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input type="checkbox"/> Deficient</p>
<p>Are there legislative frameworks (treaties, agreements, Memorandum of Understanding, etc.) that are significant for cross-border/ regional water supply systems and water resource management you are familiar with in your country/region:</p> <p><input type="checkbox"/> YES <input type="checkbox"/> No</p> <p>If the answer is yes, please provide the title</p>
<p>Your familiarity with issues/ constrains regarding cross- border / regional water resources:</p> <p><input checked="" type="checkbox"/> Comprehensive <input type="checkbox"/> Moderate <input type="checkbox"/> Deficient</p> <p>Please provide additional comments if any:</p>

Implementation level of River basin Management Plans at the national level:

☐ Completed ☐ Ongoing ☒ Pending

Please provide additional comments if any:

Implementation level of River basin Management Plans (transboundary river basins) :

☐ Completed ☐ Ongoing ☒ Pending

Please provide additional comments if any:

What are the most important topics that you would like to become more familiar regarding to cross- border /regional water supply systems and water resources management?

Do you consider this type of workshops/roundtables useful:

☒ Yes ☐ No ☐ Neutral

Additional Comments:

QUESTIONNAIRE ON CROSS BORDER /REGIONAL WATER SUPPLY SYSTEMS AND WATER RESOURCES MANAGEMENT

The Capitalization and sustainability activity (CS) is an important project component that would provide framework for exchange of relevant information of significance for cross-border/ regional water supply systems among stakeholders, authorities, research institutions, etc.

Your feedbacks collected during the national workshops provide valuable inputs and contribute to successful DRINKADRIA project implementation.

Name:	MONIR
Surname:	ŽIČIĆ
Institution/ Organization: (If you wish to remain anonymous, please do not fill)	J.P. Vodovod i kanalizacija - Nikšić
Your Institution/ Organization mission /main scope of the work:	
<input checked="" type="checkbox"/> Water utility <input type="checkbox"/> Authority : <input type="checkbox"/> local <input type="checkbox"/> regional <input type="checkbox"/> national <input type="checkbox"/> Research Organization <input type="checkbox"/> Water Association <input type="checkbox"/> Other (please specify):	
Your activities are mainly focused on :	
<input checked="" type="checkbox"/> water supply <input type="checkbox"/> water protection <input type="checkbox"/> education/research <input type="checkbox"/> international cooperation <input type="checkbox"/> financial/ legislative <input type="checkbox"/> other, namely :	
What spatial scale reflects the best your activities and tasks? (Please use percentile estimation in a way that total amount is 100% Example: local -55%. national -25%, other - 20%)	
local <u>100</u> % regional _ % national _ % international _ % other, namely : _____, _ %	
What are the main water supply management issues/ problems at the present? (Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)	
<input checked="" type="checkbox"/> Losses <input type="checkbox"/> Quantity <input type="checkbox"/> Quality <input type="checkbox"/> Water tariffs <input checked="" type="checkbox"/> legislation and policy framework <input checked="" type="checkbox"/> Lack of funding <input checked="" type="checkbox"/> Infrastructure <input type="checkbox"/> Capacities : <input type="checkbox"/> institutional <input type="checkbox"/> technical <input type="checkbox"/> human <input type="checkbox"/> Climate change <input type="checkbox"/> Weak Cooperation <input type="checkbox"/> Other, namely :	

Please rank the following in terms of before mentioned issues/problems:
(Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

LOSSES

- ☒ 2 unauthorized consumption ☐ metering errors ☒ 4 distribution network leakage
☐ distribution network leakage ☐ water supply facilities leakage
☒ 3 other, please specify

QUANTITY

- ☐ increase in water use ☐ seasonal fluctuations ☐ water storage capacities
☐ changes in land use practices ☐ high consumption by other sectors (agriculture, industry, etc)
☐ Climate Change ☐ other, please specify

QUALITY

- ☒ 1 point source pollution ☐ nonpoint source pollution ☒ 3 source protection issues
☐ changes in land use practices ☒ 2 seasonal fluctuation ☐ Climate Change
☐ other, please specify

WATER SUPPLY DISTRIBUTION CONSTRAINS

- ☐ inadequate network ☐ pumping stations capacities ☐ reservoirs deficiency
☐ poor maintenance of water supply distribution system ☒ 1 ageing
☒ 2 other, please specify

What are the main water supply management constrains in the near future (next 25- 30 years) ?
(Please rank them: 1 the most significant, 5 the least significant, it is possible to assign the same rank to maximum two issues/problems)

- ☒ 3 Losses ☐ Quantity ☐ Quality ☐ Water tariffs
☐ legislation and policy framework ☒ 2 Lack of funding ☒ 1 Infrastructure
☐ Capacities : ☐ institutional ☐ technical ☐ human
☐ Climate change ☐ Weak Cooperation ☒ 4 Other, namely

What are the most important steps and activities that would improve water supply in terms of aforementioned issues and constrains?

- RESAVANJE GYBITAKA

Do you think that some cross-cutting issues can be solved by:

(Please rank them: 1 the most significant, 5 the least significant, it is possible assign the same rank to maximum two issues/problems)

- ☐ Policy that would address the majority of issues
☐ Separate policies that would address the majority of issues

- ☒ Better cooperation among different sectors
☒ Better cooperation among local and national authorities
☐ More financial resources
☐ Water tariffs
☒ Other, namely :

Please list the 3 most significant actors/ actions for improved water supply and water resources management:

- STRATEGY / A
 - FIKAHILIA
 - OTRA / KUTENOST

What are the actions that your institution/ organization might take to improve water supply and water resources management and contribute to its sustainability?

- EDUKACIJA
 - SARADNJA I OPSTINAMA

Do you think that only state activities contribute to improved water supply:

☐ YES ☒ NO

If the answer is NO please list other institutional levels of significance:

REGION, LOKALNOSTI

Your familiarity/ knowledge with role and activities of Bilateral Commissions of significance for cross - border/ regional water supply and water resources management:

☐ Comprehensive ☐ Moderate ☒ Deficient

Your familiarity/ knowledge with role and activities of Local Authorities of significance for cross - border/ regional water supply:

☐ Comprehensive ☒ Moderate ☐ Deficient

Are there legislative frameworks (treaties, agreements, Memorandum of Understanding, etc.) that are significant for cross-border/ regional water supply systems and water resource management you are familiar with in your country/region:

☐ YES ☒ NO

If the answer is yes, please provide the title

Your familiarity with issues/ constraints regarding cross-border / regional water resources:

☐ Comprehensive ☐ Moderate ☒ Deficient

Please provide additional comments if any:

Implementation level of River basin Management Plans at the national level:

☐ Completed ☒ Ongoing ☐ Pending

Please provide additional comments if any:

Implementation level of River basin Management Plans (transboundary river basins) :

☐ Completed ☒ Ongoing ☐ Pending

Please provide additional comments if any:

What are the most important topics that you would like to become more familiar regarding to cross-border /regional water supply systems and water resources management?

KAČ IN UPRAVLJANJE VODNIH RESURSAH DRUGIH DRŽAV

Do you consider this type of workshops/roundtables useful:

☒ Yes ☐ No ☐ Neutral

Additional Comments:

ANNEX 7: NATIONAL DATA SERBIA

DRINKADRIA - THE FIRST NATIONAL WORKSHOP IN SERBIA:

WATER SUPPLY SYSTEMS EFFICIENCY ADVANCE IN SERBIA

Date: March 3, 2014 9:00 AM – 2:30 PM

Location: Association "Milutin Milanković", Maršala Birjuzova 53, Belgrade, Serbia

AGENDA

09:00 - 09:30 Participants registration

09:30 - 11:00 Session 1

- 09:30 - 10:00 Opening
- 10:00 - 10:20 D. Dimkić (Institute for water resources development Jaroslav Černi)
DRINKADRIA project overview
Average losses in Serbian water supply systems
- 10:20 - 10:30 B. Matić (Institute for water resources development Jaroslav Černi)
DRINKADRIA capitalization and sustainability activities
- 10:30 - 10:40 D. Kovač (Public utility for water supply, Nikšić, Montenegro)
DRINKADRIA pilot actions in Montenegro - Nikšić water supply district
- 10:40 - 11:00 D. Lukić (Sombor)
Organizational and financial issues and characteristics of water supply systems in Serbia

11:00 - 11:30 Coffee break

09:30 - 11:00 Session 2

- 11:30 - 11:50 A. Đukić (Institute for water resources development Jaroslav Černi)
Water balance and losses control in water supply systems
 - 11:50 - 12:10 M. Nikolić (Public Utility Belgrade Waterworks and Sewerage)
Effectiveness Improvement of the Belgrade water supply system – good practices example
 - 12:10 - 13:00 Examples of good practices in water supply management in Serbia:
Effectiveness Improvements – presentations on selected water supply systems from Serbia
 - 13:00 - 14:00 Discussion
- 14:00 – 14:30 Conclusions and closing**
- 14:30 Lunch**



DRINKADRIA

Сарадња ради побољшања
водоснабдевања на подручју
Јадранског слива



Прекогранични пројекат 16 партнерских
организација из 8 земаља
(Италија, Словенија, Босна и Херцеговина,
Хрватска, Црна Гора, Албанија, Грчка и
Србија) са циљем побољшања
прекограничног / регионалног
водоснабдевања у оквиру Јадранског слива



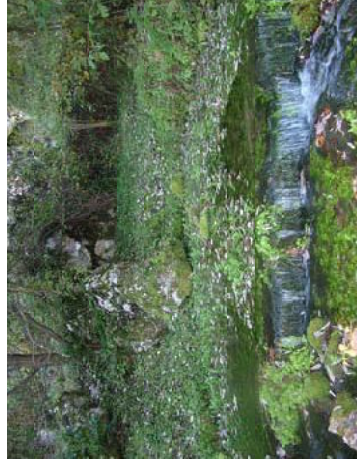
www.adriaticipacbc.org

О ПРОЈЕКТУ

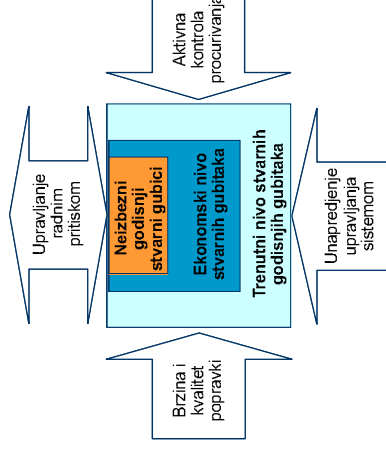
Поред бројних проблема који се разматрају у области водоснабдевања, питање прекограничних система на подручју Јадранског региона постаје све значајније. DRINKADRIA (Networking for Drinking Water Supply in Adriatic Region) је једини пројекат овог типа који се бави управљањем прекограничним системима за водоснабдевање и применом одређених мера у оквиру пилот подручја.

Предвиђено је да се током реализације DRINKADRIA пројекта прикажу потенцијална решења за прекограничне проблеме везано за водоснабдевање који су препознати од стране учесника пројекта: губици у мрежи, старење инфраструктуре, ниска цена воде, пораст потреба за водом, утицаји климатских промена, као и велика сезонска неравнотежност потрошње воде.

Реализација пројекта почела је у децембру 2013. године. Имплементација пројекта DRINKADRIA, који се завршава у марту 2016. године, финансира се средствима Европске Уније кроз програм IPA Adriatic Cross Border Cooperation 2007-2013.



Циљ овог пројекта је и да поспеши размену знања и искустава међу партнерима на пројекту, као и са свим заинтересованим странама у области водоснабдевања (водоводи, државне институције, научне институције, и друго).



ПАРТНЕР НА ПРОЈЕКТУ ИЗ СРБИЈЕ

Институт за водопривреду „Јарослав Черни“

Београд, Јарослава Черног 80
Контакт: Дејан Димкић
Тел: +381 11 396478,
Факс: +381 11 3908456
е-mail: dejan.dimkic@jcerni.co.rs



DRINKADRIA

Networking for Drinking Water Supply in Adriatic Region



Cross border project that involves 16 partners from 8 countries (Italy, Slovenia, Croatia, BiH, Montenegro, Albania, Greece and Serbia) with main goal to improve management of cross-border/ regional water supply systems in Adriatic region



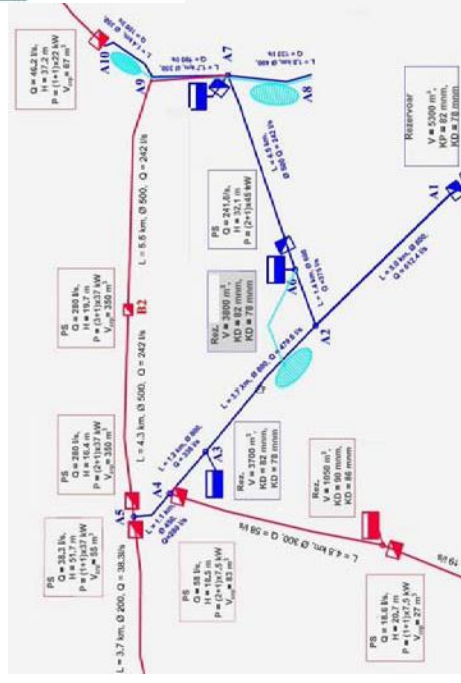
www.adriaticipacbc.org

PROJECT DESCRIPTION

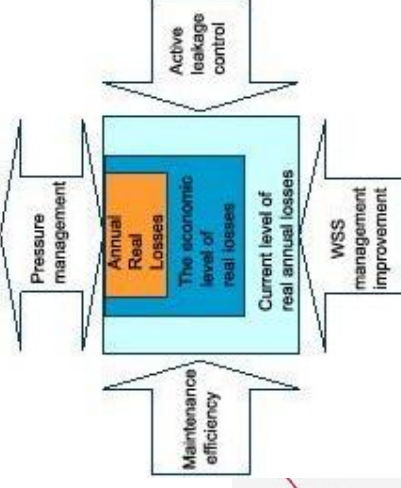
Among numerous issues addressed to water resources and water supply so far, trans-boundary water supply problem in the Adriatic sub-region has been recognized as a significant one. DRINKADRIA (Networking for Drinking Water Supply in Adriatic Region) is unique project that addresses issues associated with management and implementation of supply systems management and implementation of specific actions and measures proposed for selected pilot sites.

During the project implementation, the proposal of the potential solutions for the issues relevant for the cross-border/ regional water supply systems. The issues identified by project partners are network losses, infrastructure ageing, low economic efficiency, and increase in demand, climate change consequences and significant seasonal fluctuations in water use.

EU - IPA Adriatic Cross Border Cooperation 2007-2013 program, provides financial support for the project. The implementation of DRINKADRIA project started in December 2013 and project closure is in March 2016.



One of the project objectives is to improve knowledge and experience share among project partners and relevant stakeholders in water supply management (water utilities, authorities, research institutions, etc)



Project participant from Serbia

Institute for Development of Water Resources
"Jaroslav Černi"

Belgrade, Jaroslava Černog 80
Contact person: Dejan Dimkić
Tel: +381 11 396478,
Fax: +381 11 3908456
e-mail: dejan.dimkic@jcerni.co.rs

DRINKADRIA, I NACIONALNI Seminar, Beograd, 09. April 2014 , LISTA UČESNIKA SEMINARA
DRINKADRIA, I N ational workshop, Belgrade, 09. April 2014 , LIST OF PARTICIPANTS


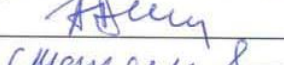
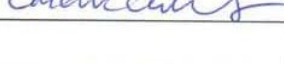
1. JAVNA KOMUNALNA PREDUZEĆA

Br.	Naziv preduzeća	Osoba	POTPIS
1.1	JKP Beogradski vodovod i kanalizacija	Marina Nikolić	<i>Marina Nikolic</i>
1.2	JKP Vodovod i kanalizacija Novi Sad	Radoica Stefanović	<i>Radoica Stefanovic</i>
1.3	JKP Vodovod i kanalizacija Novi Sad	Ikonija Karadžić	
1.4	JKP Naissus Niš	Dragan Stanković	
1.5	JKP Vodovod i kanalizacija Požarevac	Miodrag Obradović Nenad Ratić	<i>Nenad Ratic</i>
1.6	JKP Vodovod Valjevo	Dragan Živanović	<i>Dragan Zivanovic</i>
1.7	JKP "Miloš Mitrović" – Velika Plana	Stojanović Zivomir Miodrag	<i>Miodrag</i>
1.8	JKP Vodovod i kanalizacija Inđija	Borivoj Božić	
1.9	JKP Vodovod i kanalizacija Inđija	Dragan Došen	<i>Dragan Dosen</i>
1.10	JKP Vodovod i kanalizacija Stara Pazova	Vladimir Kiković	
1.11	JKP Vodovod Kruševac	Ljubomir Banović	<i>Ljubomir Banovic</i>
1.12	KP "Vodovod" Čačak	Zoran Pantović	<i>Zoran Pantovic</i>
1.13	JP za vodosnabdevanje "Rzav"	Slavica Avramović	<i>Slavica Avramovic</i>
1.14	JP za vodosnabdevanje "Rzav"	Vladimir Petrović	<i>Vladimir Petrovic</i>
1.15	JKP Vodovod Loznica	MILUTIN KORAČEVIĆ Jovo Malović	<i>Jovo Malovic</i>
1.16	<i>Soubor</i>	<i>D. Lukić</i>	<i>D. Lukic</i>
1.17	<i>KRUPČIĆ</i>	<i>ALEKSANDAR KROBUNJANČIĆ</i>	<i>A. Krobunjanac</i>
1.18	<i>— (L) —</i>	<i>LUKIĆ RADOJE</i>	<i>R. Lukic</i>
1.19	<i>— (L) —</i>	<i>VIŠESLAV LUKIĆ</i>	<i>V. Lukic</i>
1.20	<i>JKP "Miloš Mitrović" V. Plana</i>	<i>ALEKSANDAR PETROVIĆ</i>	<i>A. Petrovic</i>
1.21	<i>POČAČIĆ</i>	<i>KORAC MARIANA</i>	<i>M. Korac</i>
1.22	<i>— (L) —</i>	<i>MILOS PETIĆ</i>	<i>M. Petic</i>
1.23	<i>BVR</i>	<i>GORAN JOVANOVIĆ</i>	<i>G. Jovanovic</i>
1.24	<i>— (L) —</i>	<i>ALEKSANDAR ULOVIĆ</i>	<i>A. Ulovic</i>
1.25	<i>— (L) —</i>	<i>PREBILAT BOGDANOVIĆ</i>	<i>P. Bogdanovic</i>
1.26			

2. NAUČNO-ISTRAŽIVAČKE ORGANIZACIJE

Br.	Naziv ustanove	Osoba	POTPIS
2.1	Univerzitet u Beogradu - Građevinski fakultet	Dušan Prodanović	
2.2	Univerzitet u Beogradu - Građevinski fakultet	Nemanja Branislavljević	
2.3	Institut za vodoprivredu "Jaroslav Černi", Bgd	Milan Dimkić ✓	
2.4	Institut za vodoprivredu "Jaroslav Černi", Bgd	Miodrag Milovanović ✓	
2.5	Institut za vodoprivredu "Jaroslav Černi", Bgd	Dejan Dimkić	
2.6	Institut za vodoprivredu "Jaroslav Černi", Bgd	Branislava Matić	
2.7	Institut za vodoprivredu "Jaroslav Černi", Bgd	Aleksandar Đukić	
2.8	Institut za vodoprivredu "Jaroslav Černi", Bgd	Dušan Đurić	
2.9	Institut za vodoprivredu "Jaroslav Černi", Bgd	Milutin Stefanović	
2.10	Institut za vodoprivredu "Jaroslav Černi", Bgd	Vladimir Lukić	
2.11	Institut za vodoprivredu "Jaroslav Černi", Bgd	Dragana Pejović	
2.12	Institut za vodoprivredu "Jaroslav Černi", Bgd	Prvoslav Marjanović	
2.13	Institut za vodoprivredu "Jaroslav Černi", Bgd	Marko Marjanović	
2.14	Institut za vodoprivredu "Jaroslav Černi", Bgd	Aleksandar Daničić	
2.15	Institut za vodoprivredu "Jaroslav Černi", Bgd	Maja Pražić	
2.16	Institut za vodoprivredu "Jaroslav Černi", Bgd	Dragan Svrkota	
2.17	Institut za vodoprivredu "Jaroslav Černi", Bgd	Vladimir Jelenković	
2.18	Institut za vodoprivredu "Jaroslav Černi", Bgd	Dragan Vidović	
2.19	— 11 —	G. MITROVIĆ	
2.20	— 11 —	D. VIDORIĆ	
2.21	— 11 —	M. MILETIĆ-RADIĆ	
2.22	— 11 —	DATA D'A PALLORE	
2.23	— 11 —	BOJAN DIMITRIĆ	
2.24	— 11 —	NIKOLA MILANOVIĆ	
2.25	— 11 —	VLAĐIMIR ĐENIĆ	
2.26	— 11 —	LIVKA MARIO	
2.27	— 11 —	ANA ĐAČIĆ	
2.28	— 11 —	DRAGANA JORDANOVSKA	
2.29	— 11 —	DRAGANA PEJOVIĆ	
2.30			


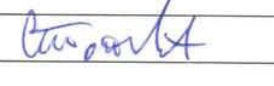
3. NEVLADIN SEKTOR

Br.	Naziv ustanove	Osoba	POTPIS
3.1	Udruženje vodovoda i kanalizacije Srbije	Predrag Bogdanović	
3.2	Srpsko društvo za zaštitu voda	Aleksandar Djukić	
3.3	Udruženje Milutin Milanković	Slavko Maksimović	
3.4			
3.5			
3.6			

4. VLADIN SEKTOR (REPUBLIČKI I OPŠTINSKI/GRADSKI NIVOI)

Br.	Naziv institucije	Osoba	POTPIS
4.1	Ministarstvo poljoprivrede, šumarstva i vodoprivrede, Republička direkcija za vode	Tijana Tanacković	
4.2	Vlada R. Srbije, Kancelarija za EU Integracije	Ivana Davidović	
4.3	Ministarstvo energetike, razvoja i zaštite životne sredine R. Srbije	Marija Dragović	
4.4	Ministarstvo energetike, razvoja i zaštite životne sredine R. Srbije	Tina Savić	
4.5			
4.6			
4.7			

5. INTERNATIONAL COMMUNITY / DONORS

Br.	Naziv institucije	Osoba	POTPIS
5.1	Delegacija Evropske unije u R. Srbiji	Vesna Manić	
5.2	MISP - Municipal Infrastructure Support Programme	M. Cvjetković 	
5.3			
5.4			
5.5			

6. PARTNERI SA DRINKADRIA PROJEKTA

Br.	Naziv preduzeća / ustanove	Osoba	POTPIS
6.1	Vodovod Nikšić	Mira Papović	
6.2	Lead partner – vodovod Trst	Enrico Altran	
6.3			
6.4			

DBK

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АНА ПОПОВИЧ - МУНИЦИП
СЛАВНА СЛУЖ

2/2000/4
Chofane Call

Summary report on the first national event for stakeholders in republic of Serbia

Belgrade, April 9th 2014

The First National Workshop, organised by the "Jaroslav Černi" Institute for Development of Water Resources (FB 10) and titled "Boosting Efficiency of Serbian Waterworks", was held, as a part of the DRINKADRIA Project, on April 9 2014 in Belgrade, at the "Milutin Milanković" Association.

The Workshop was attended by the 59 experts, including representatives of 9 Serbian waterworks and sewerage companies (PUC "Belgrade Waterworks and Sewerage", PUC "Valjevo Waterworks", PUC "Požarevac Waterworks and Sewerage", PUC "Miloš Mitrović – Velika Plana", PUC "Indija Waterworks and Sewerage", PUC "Kruševac Waterworks", PUC "Čačak Waterworks", PUC "Loznica Waterworks") and one regional water supply system company "Rzav". The conference was also attended by representatives of scientific and educational institution ("Jaroslav Černi" Institute for Development of Water Resources, University of Belgrade's Faculty of Civil Engineering), expert organisations (Waterworks and Sewerage Association of Serbia, "Milutin Milanković" Association), state agencies (Ministry of Agriculture, Forestry and Water Management, Republic Directorate for Water, Ministry of Energy, Development and Environmental Protection, Government's European Integration Office), as well as representatives of the Municipal Infrastructure Support Programme (MISP), and partners of DRINKADRIA Project.

The workshop was opened by the "Jaroslav Černi" Institute's Project Team Leader, Mr Dejan Dimkić. On behalf of the organisers, participants were welcomed by the Institute's CEO, Mr Milan Dimkić, PhD and Assistant Director, Mr Miodrag Milovanović.

On behalf of the Serbian Government's European Integration Office, Department for Cross-Border and Transnational Cooperation, the workshop participants were addressed by Ms Ivana Davidović, coordinator of the IPA Adriatic Programme and the Hungary-Serbia CBC Programme. She expressed satisfaction of the Office with regard to the participation of Serbia in this and similar international projects. Mr Slavko Maksimović, president of the "Milutin Milanković" Association greeted the attendants on behalf of the Association.

The workshop was chaired by Mr Dejan Dimkić, BSc, *DrinkAdria* Project Manager at the "Jaroslav Černi" Institute, Mr Branislav Matić, BSc, expert on water and climate change and the Coordinator of the WP "Capitalisation and Dissemination" on behalf of the "Jaroslav Černi" Institute, and Aleksandar Đukic, BSc, expert on management of transboundary resources and climate change, engaged in the Project by the "Jaroslav Černi" Institute as an expert on water and channeling.

The workshop was divided into sessions in which the participants were acquainted with the Project and the related activities being implemented in the selected pilot area of the town of Nikšić's waterworks, where the "Jaroslav Černi" Institute is a consultant, as well as with other relevant subjects concerning the improvement of Serbian waterworks efficiency.

During the first session, chaired by Mr Aleksandar Đukić, the attendants were shown four presentations. Mr Dejan Dimkić gave a presentation entitled *Project DrinkAdria, Average Losses in Serbian Water Supply Systems*, Mr Branislav Matić's presentation focused on the topic of *DrinkAdria Project Activities Concerning Capitalisation and Sustainability*. Ms Mira Papović presented the Project activities in the selected pilot area of the Town of Nikšić's waterworks (*Drinkadria Project Activities in Pilot area of Town of Nikšić's Waterworks*). Mr Dušan Lukić gave a presentation entitled *Organisational and Financial Aspects of Water Supply in Serbia*.

During the second session, chaired by Mr Branislav Matić, the attendants were shown the following presentations: *Water Balance and Control Losses in Water Supply Systems*, by Mr Aleksandar Đukic; *Efficiency Boosting in Belgrade Waterworks*, by Ms Marina Nikolić; *Methods for Determining Primary Zones for Balancing Water Supply Networks, Shown on Example of Novi Sad Waterworks*, by Mr Dušan Prodanović, PhD and Mr Nemanja Branislavljević, PhD.

Along the course of the discussion, the Workshop participants shared their experiences and observations concerning the most common problems faced by local and regional waterworks companies in Serbia, such as: losses in the network, aging infrastructure, low water prices, low rate of water bill collection, illegal consumption, age of the system, problems of exploitation and protection of water sources especially reservoirs, lack of funds for the construction of new major facilities for local and regional water supply systems.

The discussion highlighted the need for a gradual, permanent increase of efficiency of waterworks enterprises in a sustainable manner. This will require changes to both the organisation and activities of waterworks companies, as well as establishing appropriate organisational and regulatory framework in which these companies operate. A special role in this process will be played by consulting firms, institutes and universities, which should provide the knowledge and skills needed to increase the efficiency of waterworks enterprises in a technically correct, sustainable and cost-effective manner.

Participants emphasised the importance this kind of expert conferences have on extending expert knowledge and boosting water supply efficiency, and expressed their approval of this and future workshops organised within DRINKADRIA and other projects as an efficient way of getting acquainted with the activities carried out and as a mechanism of sharing experiences and successful practices.

QUESTIONNAIRES SUMMARY IN SERBIAN

	najviše odgovora	Umereno	najmanje odgovora
Delokrug rada vaše institucije	Javno komunalno preduzeće	lokalna, regionalna, nacionalna	Udruženje vodovoda
Vaše radne aktivnosti se uglavnom odnose na:	vodosnabdevanje	zaštitu voda	međunarodna saradnja
Vaše radne aktivnosti, u prostornom smislu, se najviše odnose na:	lokalni	regionalni, nacionalni	međunarodni
Koji su trenutno najveći problemi i otvorena pitanja vezano za upravljanje sistemima za vodosnabdevanje	Cena vode, Nedostatak finansijskih sredstava, Gubici	Količina, Nedovoljna saradnja	Klimatske promene,
	najviše odgovora sa 1	najviše odgovora sa 5	
Gubici	neovlašćena potrošnja, procurivanje u distributivnoj mreži	curenje u vodovodnim objektima	
Količina	sezonske varijacije	zapremina rezervoarskog prostora, porast potrošnje	
Kvalitet	problemi vezani za izvorišta, rasuti izvori zagađenja	sezonske varijacije	
Ograničenja u vodosnabdevanju	slabo održavanje distributivne mreže i sistema, dotrajalost	kapacitet crpnih stanica, nedovoljno rezervoara	
Najveća ograničenja u vodosnabdevanju u bliskoj budućnosti (narednih 25-30 godina)	cena vode, nedostatak finansijskih sredstava	infrastruktura	
Aktivnosti i koraci koji mogu poboljšati vodosnabdevanje u odnosu na prethodno pomenute probleme i otvorena pitanja	Smanjenje gubitaka i kontinuirani monitoring procurivanja	Više informacija o uticaju klimatskih promena na vodne resurse i budući razvoj/planiranje	

Da li smatrate da je neko pitanje od opšteg interesa moguće rešiti	Strateški pristup koji će rešiti većinu problema / otvorenih pitanja, Cena vode	Unapređenje saradnje među sektorima	
	broj odgovora sa DA	broj odgovora sa NE	
Da li smatrate da samo aktivnosti i mere na državnom nivou doprinose poboljšanju vodosnabdevanja?	4	27	
Da li postoji zakonodavni okvir (sporazumi, ugovori, Memorandum o razumevanju, i drugo) koji su značajni za prekogranično / regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima u Srbiji sa kojima ste Vi upoznati?	7	22	
Da li smatrate da je ovaj tip radionica/okruglih stolova koristan:	32	0	
	potpuno	umereno	nedovoljno
U kojoj meri ste upoznati sa ulogom i aktivnostima bilateralnih komisija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima?	3	10	19
U kojoj meri ste upoznati sa ulogom i aktivnostima lokalnih institucija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje?	2	15	15
U kojoj meri ste upoznati sa problemima/otvorenim pitanjima i ograničenjima koja se odnose na prekogranične/regionalne vodne resurse?	2	13	14
	završena	u toku	nije počela
Stepen implementacije planova upravljanja prekograničnim slivovima:	0	16	8

Stepen implementacije planova upravljanja vodama na teritoriji Republike Srbije:	0	21	4
Koje su aktivnosti koje Vaša institucija / organizacija može sprovesti radi poboljšanja upravljanja sistemima za vodosnabdevanje i vodnim resursima i doprineti njihovoj održivosti?	GIS, kontrola kvaliteta i monitoring, smanjenje gubitaka i novi zakoni		
Koja su 3 najznačajnija aktera / aktivnosti za poboljšanje upravljanja sistemima za vodosnabdevanje i vodnim resursima?	Povećanje cena i sredstava, bolja organizacija, količine vode, akumulacije, smanjenje gubitaka, kvalitet, izvorišta, GIS, saradnja		

SELECTED IMAGES FROM THE FIRST NATIONAL EVENT FOR STAKEHOLDERS IN SERBIA





More information and data available at the:

<http://www.jcerni.org/en/workshops.html>

Summary report prepared by JCI
DRINKADRIA team members





Saradnja radi poboljšanja vodosnabdevanja na području Jadranskog sliva



UPITNIK O UPRAVLJANJU PREKOGRANIČNIM / REGIONALNIM SISTEMIMA ZA VODOSNABDEVANJE I VODNIM RESURSIMA

Aktivnosti koje se odnose na kapitalizaciju i održivost projekta su važna komponenta koja će poslužiti kao okvir za razmenu bitnih iskustva i znanja od značaja za prekogranične / regionalne sisteme vodosnabdevanja i vodne resurse. Predviđena je razmena informacija i podataka zainteresovanih strana, državnih institucija, naučno-istraživačkih organizacija, i drugo.

Informacije i odgovori prikupljeni tokom nacionalnih radionica, u svih 8 zemalja, predstavljaju veoma važne ulazne podatke i doprinose u velikoj meri uspešnoj realizaciji DRINKADRIA projekta.

Ime:	БНАДЛУМ
Prezime:	ПЕТРОВИЋ
Institucija/ Organizacija: (Ukoliko želite da ostanete anonimni, niste u obavezi da popunite ovaj deo)	ОН "РЗДБ" АРБУС РЕПУБЛИКА БИЈЕЛОРУСИЈА
Delokrug rada Vaše institucije/ organizacije: <input type="checkbox"/> Javno komunalno preduzeće <input type="checkbox"/> Institucije: <input type="checkbox"/> lokalna <input checked="" type="checkbox"/> regionalna <input type="checkbox"/> nacionalna <input type="checkbox"/> Istraživačka organizacija <input type="checkbox"/> Udruženje vodovoda <input type="checkbox"/> ostalo (molimo naznačite):	
Vaše radne aktivnosti se uglavnom odnose na: <input checked="" type="checkbox"/> vodosnabdevanje <input checked="" type="checkbox"/> zaštitu voda <input type="checkbox"/> obrazovanje/istraživanje <input type="checkbox"/> međunarodna saradnja <input type="checkbox"/> finansije/zakonodavstvo <input type="checkbox"/> ostalo, navedite:	
Vaše aktivnosti se, u prostornom smislu, najviše odnose na sledeći nivo: (Molimo Vas da koristite procentualnu procenu tako da ukupan zbir bude 100%) Primer : lokalni nivo -55%. nacionalni -25%, ostalo - 20% lokalni _ % , regionalni / 0 % , nacionalni _ % , međunarodni _ % , ostalo(molimo Vas navedite) : _____ , %	
Koji su trenutno najveći problemi i otvorena pitanja vezano za upravljanje sistemima za vodosnabdevanje? (Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema/otvorena pitanja) <input type="checkbox"/> Gubici <input checked="" type="checkbox"/> Količina <input type="checkbox"/> Kvalitet <input checked="" type="checkbox"/> Cena vode <input checked="" type="checkbox"/> Zakonodavni/ strateški okvir <input checked="" type="checkbox"/> Nedostatak finansijskih sredstava <input type="checkbox"/> Infrastruktura <input checked="" type="checkbox"/> Kapaciteti : <input checked="" type="checkbox"/> institucionalni <input type="checkbox"/> tehnički <input type="checkbox"/> ljudski <input checked="" type="checkbox"/> Klimatske promene <input type="checkbox"/> Nedovoljna saradnja <input type="checkbox"/> ostalo(navedite):	

Molimo Vas rangirajte sledeće koje detaljnije opisuje prethodno navedene probleme/otvorena pitanja :
(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

GUBICI

- ☐ neovlašćena potrošnja ☐ greške u merenju 4 ☒ procurivanje u distributivnoj mreži
6 ☒ curenje u vodovodnim objektima ☐ ostalo(navedite)

KOLIČINA

- ☐ porast potrošnje 3 ☒ sezonske varijacije ☐ zapremina rezervoarskog prostora
☐ promene namene i koršćenja zemljišta ☐ velika potrošnja ostalih sektora (poljoprivreda, industrija, itd)
1 ☒ klimatske promene 1 ☒ ostalo(navedite) НЕДОСТАТОК АКУМУЛЯТОР

KVALITET

- ☐ tačkasti izvori zagađenja ☐ rasuti izvori zagađenja 5 ☒ problemi vezani za izvorišta
☐ promene namene i koršćenja zemljišta 1 ☒ sezonske varijacije 2 ☒ klimatske promene
☐ ostalo(navedite)

ORGANIČENJA U VODOSNABDEVANJU

- ☐ neadekvatna mreža ☒ kapacitet crpnih stanica ☐ nedovoljno rezervoara
☐ slabo održavanje distributivne mreže i sistema ☐ dotrajalost
☐ ostalo(navedite)

Po vašem mišljenju, koja su najveća ograničenja u vezi vodosnabdevanja u bliskoj budućnosti (narednih 25 - 30 godina)?

(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- ☒ gubici ☒ količina ☒ kvalitet ☐ cena vode ☐ zakonodavni i strateški okvir
☐ nedostatak finansijskih sredstava ☐ infrastruktura ☒ Kapaciteti: ☒ institucionalni ☐ tehnički ☐ ljudski
☐ ostalo(navedite):

Molimo Vas rangirajte po značaju aktivnosti i korake koji mogu poboljšati vodosnabdevanje u odnosu na prethodno pomenute probleme i otvorena pitanja?

(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- 1 ☒ Više informacija o uticaju klimatskih promena na vodne resurse i budući razvoj/planiranje;
2 ☒ Bolje razumevanje neizvesnosti u vezi klimatskih promena i njihovog uticaja na mere adaptacije;
3 ☒ Više informacija o budućoj raspoloživosti vodnih resursa i planiranju/razvoju;
☐ Poboljšano znanje o načinu korišćenju zemljišta i zonama sanitarne zaštite;
☐ Više informacija o sigurnosti vodosnabdevanja u budućnosti;
☐ Poboljšanje upravljanja prekograničnim / regionalnim sistemima vodosnabdevanja;
☐ Razvoj zajedničkog protokola za prekogranične / regionalne sisteme vodosnabdevanja;
☐ Implementacija prioriternih mera radi efikasnijeg upravljanja vodnim resursima i sistemima za vodosnabdevanje;
4 ☒ Smanjenje gubitaka i kontinuirani monitoring procurivanja;
2 ☒ Primena savremenih metodologija za kontinuirani monitoring: curenja, kvaliteta vode, rada pumpi, itd;
3 ☒ Razvoj web stranice koja će unaprediti saradnju, razmenu i transfer znanja, koji se odnose na probleme u vodosnabdevanju i upravljanju vodnim resursima;
☐ Ostalo(navedite):

Da li smatrate da je neke probleme/otvorena pitanja od opšteg interesa/ multidisciplinarna (cross-cutting) moguće rešiti:

(Molimo Vas rangirajte ih na sledeći način: **1 najveći**, **5 najmanji** rang, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- ☐ Strateški pristup koji će rešiti većinu problema / otvorenih pitanja
- ☒ Individualne strategije i smernice razvoja koje će se baviti većinom pitanja
- ☐ Unapređenje saradnje među sektorima
- ☒ Bolja saradnja institucija na lokalnom i nacionalnom nivou
- ☒ Više finansijskih sredstava
- ☒ Cena vode
- ☐ Ostalo (navedite):

Koja su 3 najznačajnija aktera / aktivnosti za poboljšanje upravljanja sistemima za vodosnabdevanje i vodnim resursima?

- ДРЖАВНЕ КОМПАНИЈЕ ВОДЕ
- АКУМУЛАЦИЈЕ
- СМАЉИКЕ ГРУПАМА У ВОДОСАНАМ МРЕЖАМА

Koje su aktivnosti koje Vaša institucija / organizacija može sprovesti radi poboljšanja upravljanja sistemima za vodosnabdevanje i vodnim resursima i doprineti njihovoj održivosti?

ИНВЕСТИЦИЈСКЕ ПОСЛОВИ УПРАВЕ БОЈАНА И АКУМУЛАЦИЈА

Da li smatrate da samo aktivnosti i mere na državnom nivou doprinose poboljšanju vodosnabdevanja?

☐ Da ☒ Ne

Ukoliko je odgovor "Ne", molimo Vas navedite ostale institucionalne nivoe od značaja:

ЛОКАЛНА САМУОПРАВА

U kojoj meri ste upoznati sa ulogom i aktivnostima bilateralnih komisija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima?

☐ Potpuno ☐ Umereno ☒ Nedovoljno

U kojoj meri ste upoznati sa ulogom i aktivnostima lokalnih institucija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje?

☐ Potpuno ☐ Umereno ☒ Nedovoljno

Da li postoji zakonodavni okvir (sporazumi, ugovori, Memorandum o razumevanju, i drugo) koji su značajni za prekogranično / regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima u Srbiji sa kojima ste Vi upoznati?

☐ Da ☒ Ne

Ukoliko je odgovor "Da", molimo Vas navedite naziv:

U kojoj meri ste upoznati sa problemima/otvorenim pitanjima i ograničenjima koja se odnose na prekogranične/regionalne vodne resurse?

☐ Potpuno ☐ Umereno ☒ Nedovoljno

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Stepen implementacije planova upravljanja prekograničnim slivovima:

☐ Završena ☒ U toku ☐ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Stepen implementacije planova upravljanja vodama na teritoriji Republike Srbije:

☐ Završena ☒ U toku ☐ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Koje su, po vašem mišljenju, najvažnije teme o kojima bi želeli da dobijete više informacija u vezano za prekogranično/regionalno upravljanje vodama i vodnim resursima ?

Da li smatrate da je ovaj tip radionica/okruglih stolova koristan:

☒ Da ☐ Ne ☐ Nemam stav

Dodatni komentari:

UPITNIK O UPRAVLJANJU PREKOGRANIČNIM / REGIONALNIM
SISTEMIMA ZA VODOSNABDEVANJE I VODNIM RESURSIMA

Aktivnosti koje se odnose na kapitalizaciju i održivost projekta su važna komponenta koja će poslužiti kao okvir za razmenu bitnih iskustva i znanja od značaja za prekogranične / regionalne sisteme vodosnabdevanja i vodne resurse. Predviđena je razmena informacija i podataka zainteresovanih strana, državnih institucija, naučno-istraživačkih organizacija, i drugo.

Informacije i odgovori prikupljeni tokom nacionalnih radionica, u svih 8 zemalja, predstavljaju veoma važne ulazne podatke i doprinose u velikoj meri uspešnoj realizaciji DRINKADRIA projekta.

Ime: Prezime: Institucija/ Organizacija: (Ukoliko želite da ostanete anonimni, niste u obavezi da popunite ovaj deo)	
Delokrug rada Vaše institucije/ organizacije:	
<input type="checkbox"/> Javno komunalno preduzeće <input type="checkbox"/> Institucije: <input type="checkbox"/> lokalna <input type="checkbox"/> regionalna <input type="checkbox"/> nacionalna <input checked="" type="checkbox"/> Istraživačka organizacija <input type="checkbox"/> Udruženje vodovoda <input type="checkbox"/> ostalo (molimo naznačite):	
Vaše radne aktivnosti se uglavnom odnose na:	
<input type="checkbox"/> vodosnabdevanje <input type="checkbox"/> zaštitu voda <input checked="" type="checkbox"/> obrazovanje/istraživanje <input type="checkbox"/> međunarodna saradnja <input type="checkbox"/> finansije/zakonodavstvo <input type="checkbox"/> ostalo, navedite:	
Vaše aktivnosti se, u prostornom smislu, najviše odnose na sledeći nivo: (Molimo Vas da koristite procentualnu procenu tako da ukupan zbir bude 100%) Primer : lokalni nivo -55%, nacionalni -25%, ostalo - 20%	
lokalni <u>50</u> %, regionalni <u> </u> %, nacionalni <u>50</u> %, međunarodni <u> </u> %, ostalo(molimo Vas navedite) : <u> </u> , %	
Koji su trenutno najveći problemi i otvorena pitanja vezano za upravljanje sistemima za vodosnabdevanje? (Molimo Vas rangirajte ih na sledeći način: 1 najveći, 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema/otvorena pitanja)	
<input checked="" type="checkbox"/> Gubici <input type="checkbox"/> Količina <input type="checkbox"/> Kvalitet <input checked="" type="checkbox"/> Cena vode <input type="checkbox"/> Zakonodavni/ strateški okvir <input checked="" type="checkbox"/> Nedostatak finansijskih sredstava <input type="checkbox"/> Infrastruktura <input checked="" type="checkbox"/> Kapaciteti : <input type="checkbox"/> institucionalni <input checked="" type="checkbox"/> tehnički <input type="checkbox"/> ljudski <input type="checkbox"/> Klimatske promene <input checked="" type="checkbox"/> Nedovoljna saradnja <input type="checkbox"/> ostalo(navedite):	

Molimo Vas rangirajte sledeće koje detaljnije opisuju prethodno navedene probleme/otvorena pitanja :
(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

GUBICI

- ☒ 2 neovlašćena potrošnja ☒ greške u merenju ☒ 4 procurivanje u distributivnoj mreži
☒ curenje u vodovodnim objektima ☒ 5 ostalo(navedite) *neovlašćena potrošnja*

KOLIČINA

- ☒ 4 porast potrošnje ☒ 1 sezonske varijacije ☒ 2 zapremina rezervoarskog prostora
☒ promene namene i koršćenja zemljišta ☒ 3 velika potrošnja ostalih sektora (poljoprivreda, industrija, itd)
☒ 5 klimatske promene ☒ ostalo(navedite)

KVALITET

- ☒ 1 tačkasti izvori zagađenja ☒ 3 rasuti izvori zagađenja ☒ 2 problemi vezani za izvorišta
☒ 4 promene namene i koršćenja zemljišta ☒ sezonske varijacije ☒ 5 klimatske promene
☒ ostalo(navedite)

ORGANIČENJA U VODOSNABDEVANJU

- ☒ 3 neadekvatna mreža ☒ 3 kapacitet crpnih stanica ☒ 4 nedovoljno rezervoara
☒ 1 slabo održavanje distributivne mreže i sistema ☒ 2 dotrajalost
☒ ostalo(navedite)

Po vašem mišljenju, koja su najveća ograničenja u vezi vodosnabdevanja u bliskoj budućnosti (narednih 25 - 30 godina)?
(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- ☒ 1 gubici ☒ 2 količina ☒ kvalitet ☒ 3 cena vode ☒ 4 zakonodavni i strateški okvir
☒ nedostatak finansijskih sredstava ☒ 5 infrastruktura ☒ Kapaciteti: ☐ institucionalni ☐ tehnički ☐ ljudski
☒ ostalo(navedite):

Molimo Vas rangirajte po značaju aktivnosti i korake koji mogu poboljšati vodosnabdevanje u odnosu na prethodno pomenute probleme i otvorena pitanja?
(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- ☒ 5 Više informacija o uticaju klimatskih promena na vodne resurse i budući razvoj/planiranje;
☐ Bolje razumevanje neizvesnosti u vezi klimatskih promena i njihovog uticaja na mere adaptacije;
☒ 1 Više informacija o budućoj raspoloživosti vodnih resursa i planiranju/razvoju;
☐ Poboljšano znanje o načinu korišćenju zemljišta i zonama sanitarne zaštite;
☐ Više informacija o sigurnosti vodosnabdevanja u budućnosti;
☐ Poboljšanje upravljanja prekograničnim / regionalnim sistemima vodosnabdevanja;
☒ 4 Razvoj zajedničkog protokola za prekogranične / regionalne sisteme vodosnabdevanja;
☒ 2 Implementacija prioriternih mera radi efikasnijeg upravljanja vodnim resursima i sistemima za vodosnabdevanje;
☒ 3 Smanjenje gubitaka i kontinuirani monitoring procurivanja;
☐ Primena savremenih metodologija za kontinuirani monitoring: curenja, kvaliteta vode, rada pumpi, itd;
☐ Razvoj web stranice koja će unaprediti saradnju, razmenu i transfer znanja, koji se odnose na probleme u vodosnabdevanju i upravljanju vodnim resursima;
☐ Ostalo(navedite):

Da li smatrate da je neke probleme/otvorena pitanja od opšteg interesa/ multidisciplinarna (cross-cutting) moguće rešiti:

(Molimo Vas rangirajte ih na sledeći način: **1 najveći**, **5 najmanji** rang, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- 1 ☐ Strateški pristup koji će rešiti većinu problema / otvorenih pitanja
2 ☐ Individualne strategije i smernice razvoja koje će se baviti većinom pitanja
3 ☐ Unapređenje saradnje među sektorima
4 ☐ Bolja saradnja institucija na lokalnom i nacionalnom nivou
5 ☐ Više finansijskih sredstava
6 ☐ Cena vode
7 ☐ Ostalo (navedite):

Koja su 3 najznačajnija aktera / aktivnosti za poboljšanje upravljanja sistemima za vodosnabdevanje i vodnim resursima?

- KONTROLA GUBITAKA
- POVEĆANJE CENE VODE
- POBOLJŠANJE UPRAVLJAČKE STRUKTURE I EFIKASNO SPROVOĐENJE
MERA ZA DEFINISANJE POTROŠNJE I NAPLATE

Koje su aktivnosti koje Vaša institucija / organizacija može sprovesti radi poboljšanja upravljanja sistemima za vodosnabdevanje i vodnim resursima i doprineti njihovoj održivosti?

Da li smatrate da samo aktivnosti i mere na državnom nivou doprinose poboljšanju vodosnabdevanja?

☐ Da ☒ Ne

Ukoliko je odgovor "Ne", molimo Vas navedite ostale institucionalne nivoe od značaja:

LOKALNE SAMOUPRAVE, INSTITUTI, ITD.

U kojoj meri ste upoznati sa ulogom i aktivnostima bilateralnih komisija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima?

☐ Potpuno ☐ Umereno ☒ Nedovoljno

U kojoj meri ste upoznati sa ulogom i aktivnostima lokalnih institucija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje?

☐ Potpuno ☐ Umereno ☒ Nedovoljno

Da li postoji zakonodavni okvir (sporazumi, ugovori, Memorandum o razumevanju, i drugo) koji su značajni za prekogranično / regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima u Srbiji sa kojima ste Vi upoznati?

☐ Da ☒ Ne

Ukoliko je odgovor "Da", molimo Vas navedite naziv:

U kojoj meri ste upoznati sa problemima/otvorenim pitanjima i ograničenjima koja se odnose na prekogranične/regionalne vodne resurse?

☐ Potpuno ☐ Umereno ☒ Nedovoljno

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Stepen implementacije planova upravljanja prekograničnim slivovima:

☐ Završena ☒ U toku ☐ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Stepen implementacije planova upravljanja vodama na teritoriji Republike Srbije:

☐ Završena ☒ U toku ☐ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Koje su, po vašem mišljenju, najvažnije teme o kojima bi želeli da dobijete više informacija u vezano za prekogranično/regionalno upravljanje vodama i vodnim resursima?

KORISTI OD TAKVIH SISTEMA I NJIHOVA EFIKASNOST

Da li smatrate da je ovaj tip radionica/okruglih stolova koristan:

☒ Da ☐ Ne ☐ Nemam stav

Dodatni komentari:



**Saradnja radi poboljšanja vodosnabdevanja
na području Jadranskog sliva**



**UPITNIK O UPRAVLJANJU PREKOGRANIČNIM / REGIONALNIM
SISTEMIMA ZA VODOSNABDEVANJE I VODNIM RESURSIMA**

Aktivnosti koje se odnose na kapitalizaciju i održivost projekta su važna komponenta koja će poslužiti kao okvir za razmenu bitnih iskustva i znanja od značaja za prekogranične / regionalne sisteme vodosnabdevanja i vodne resurse. Predviđena je razmena informacija i podataka zainteresovanih strana, državnih institucija, naučno-istraživačkih organizacija, i drugo.

Informacije i odgovori prikupljeni tokom nacionalnih radionica, u svih 8 zemalja, predstavljaju veoma važne ulazne podatke i doprinose u velikoj meri uspešnoj realizaciji DRINKADRIA projekta.

Ime: Prezime: Institucija/ Organizacija: (Ukoliko želite da ostanete anonimni, niste u obavezi da popunite ovaj deo)	<p>NEMANA BRANČAVLJEVIĆ</p> <p>GRADJEVINSKI FAKULTET U PGD</p>
<p>Delokrug rada Vaše institucije/ organizacije:</p> <p> <input type="checkbox"/> Javno komunalno preduzeće <input type="checkbox"/> Institucije: <input type="checkbox"/> lokalna <input type="checkbox"/> regionalna <input type="checkbox"/> nacionalna <input checked="" type="checkbox"/> Istraživačka organizacija <input type="checkbox"/> Udruženje vodovoda <input type="checkbox"/> ostalo (molimo naznačite): </p>	
<p>Vaše radne aktivnosti se uglavnom odnose na:</p> <p> <input type="checkbox"/> vodosnabdevanje <input type="checkbox"/> zaštitu voda <input checked="" type="checkbox"/> obrazovanje/istraživanje <input type="checkbox"/> međunarodna saradnja <input type="checkbox"/> finansije/zakonodavstvo <input type="checkbox"/> ostalo, navedite: </p>	
<p>Vaše aktivnosti se, u prostornom smislu, najviše odnose na sledeći nivo: (Molimo Vas da koristite procentualnu procenu tako da ukupan zbir bude 100%) Primer : lokalni nivo -55%, nacionalni -25%, ostalo - 20%</p> <p> lokalni ¹⁰ _ %, regionalni ⁵⁰ _ %, nacionalni ²⁰ _ %, međunarodni ²⁰ _ %, ostalo(molimo Vas navedite) : _____ % </p>	
<p>Koji su trenutno najveći problemi i otvorena pitanja vezano za upravljanje sistemima za vodosnabdevanje? (Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema/otvorena pitanja)</p> <p> <input checked="" type="checkbox"/> Gubici <input checked="" type="checkbox"/> Količina <input checked="" type="checkbox"/> Kvalitet <input checked="" type="checkbox"/> Cena vode <input checked="" type="checkbox"/> Zakonodavni/ strateški okvir <input checked="" type="checkbox"/> Nedostatak finansijskih sredstava <input checked="" type="checkbox"/> Infrastruktura <input checked="" type="checkbox"/> Kapaciteti : <input type="checkbox"/> institucionalni <input type="checkbox"/> tehnički <input type="checkbox"/> ljudski <input checked="" type="checkbox"/> Klimatske promene <input checked="" type="checkbox"/> Nedovoljna saradnja <input type="checkbox"/> ostalo(navedite): </p>	

Molimo Vas rangirajte sledeće koje detaljnije opisuju prethodno navedene probleme/otvorena pitanja :
(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

GUBICI

- ☒ 2 neovlašćena potrošnja ☒ 2 greške u merenju ☒ 4 procurivanje u distributivnoj mreži
☒ 4 curenje u vodovodnim objektima ☒ 5 ostalo(navedite)

KOLIČINA

- ☒ 1 porast potrošnje ☒ 2 sezonske varijacije ☒ 4 zapremina rezervoarskog prostora
☐ promene namene i koršćenja zemljišta ☒ 2 velika potrošnja ostalih sektora (poljoprivreda, industrija, itd)
☒ 3 klimatske promene ☐ ostalo(navedite)

KVALITET

- ☒ 2 tačkasti izvori zagađenja ☒ 1 rasuti izvori zagađenja ☒ 3 problemi vezani za izvorišta
☐ promene namene i koršćenja zemljišta ☒ 2 sezonske varijacije ☐ klimatske promene
☐ ostalo(navedite)

ORGANIČENJA U VODOSNABDEVANJU

- ☒ 2 neadekvatna mreža ☒ 4 kapacitet crpnih stanica ☒ 5 nedovoljno rezervoara
☒ 1 slabo održavanje distributivne mreže i sistema ☒ 2 dotrajalost
☐ ostalo(navedite)

Po vašem mišljenju, koja su najveća ograničenja u vezi vodosnabdevanja u bliskoj budućnosti (narednih 25 - 30 godina)?

(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- ☒ 1 gubici ☒ 4 količina ☒ 3 kvalitet ☐ cena vode ☐ zakonodavni i strateški okvir
☐ nedostatak finansijskih sredstava ☒ 2 infrastruktura ☐ Kapaciteti: ☐ institucionalni ☐ tehnički ☐ ljudski
☐ ostalo(navedite):

Molimo Vas rangirajte po značaju aktivnosti i korake koji mogu poboljšati vodosnabdevanje u odnosu na prethodno pomenute probleme i otvorena pitanja?

(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- ☒ 1 Više informacija o uticaju klimatskih promena na vodne resurse i budući razvoj/planiranje;
☐ Bolje razumevanje neizvesnosti u vezi klimatskih promena i njihovog uticaja na mere adaptacije;
☒ 4 Više informacija o budućoj raspoloživosti vodnih resursa i planiranju/razvoju;
☐ Poboľjšano znanje o načinu korišćenju zemljišta i zonama sanitarne zaštite;
☒ 5 Više informacija o sigurnosti vodosnabdevanja u budućnosti;
☐ Poboľjšanje upravljanja prekograničnim / regionalnim sistemima vodosnabdevanja;
☐ Razvoj zajedničkog protokola za prekogranične / regionalne sisteme vodosnabdevanja;
☒ 3 Implementacija prioriternih mera radi efikasnijeg upravljanja vodnim resursima i sistemima za vodosnabdevanje;
☒ 3 Smanjenje gubitaka i kontinuirani monitoring procurivanja;
☒ 3 Primena savremenih metodologija za kontinuirani monitoring: curenja, kvaliteta vode, rada pumpi, itd;
☐ Razvoj web stranice koja će unaprediti saradnju, razmenu i transfer znanja, koji se odnose na probleme u vodosnabdevanju i upravljanju vodnim resursima;
☐ Ostalo(navedite):

Da li smatrate da je neke probleme/otvorena pitanja od opšteg interesa/ multidisciplinarna (cross-cutting) moguće rešiti:

(Molimo Vas rangirajte ih na sledeći način: **1 najveći**, **5 najmanji** rang, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- ☐ Strateški pristup koji će rešiti većinu problema / otvorenih pitanja
- ☒ Individualne strategije i smernice razvoja koje će se baviti većinom pitanja
- ☒ Unapređenje saradnje među sektorima
- ☒ Bolja saradnja institucija na lokalnom i nacionalnom nivou
- ☒ Više finansijskih sredstava
- ☒ Cena vode
- ☐ Ostalo (navedite):

Koja su 3 najznačajnija aktera / aktivnosti za poboljšanje upravljanja sistemima za vodosnabdevanje i vodnim resursima?

AKTERI
VODOVODI, LOK. SAMOUPRAVA
DRŽAVA

AKTIVNOSTI
RESTROKUIRANJE I
BORBA PROTIV GUBITAKA
UPRAVLJANJE INFRAST.

Koje su aktivnosti koje Vaša institucija / organizacija može sprovesti radi poboljšanja upravljanja sistemima za vodosnabdevanje i vodnim resursima i doprineti njihovoj održivosti?

KONSULTANTSKA USLUGE, OBUKA, MERENJA

Da li smatrate da samo aktivnosti i mere na državnom nivou doprinose poboljšanju vodosnabdevanja?

☐ Da ☒ Ne

Ukoliko je odgovor "Ne", molimo Vas navedite ostale institucionalne nivoe od značaja:

LOKALNA SAMOUPRAVA

U kojoj meri ste upoznati sa ulogom i aktivnostima bilateralnih komisija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima?

☐ Potpuno ☐ Umereno ☒ Nedovoljno

U kojoj meri ste upoznati sa ulogom i aktivnostima lokalnih institucija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje?

☐ Potpuno ☐ Umereno ☒ Nedovoljno

Da li postoji zakonodavni okvir (sporazumi, ugovori, Memorandum o razumevanju, i drugo) koji su značajni za prekogranično / regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima u Srbiji sa kojima ste Vi upoznati?

☐ Da ☒ Ne

Ukoliko je odgovor "Da", molimo Vas navedite naziv:

U kojoj meri ste upoznati sa problemima/otvorenim pitanjima i ograničenjima koja se odnose na prekogranične/regionalne vodne resurse?

☐ Potpuno ☒ Umereno ☐ Nedovoljno

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Stepen implementacije planova upravljanja prekograničnim slivovima: ??

☐ Završena ☐ U toku ☐ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Stepen implementacije planova upravljanja vodama na teritoriji Republike Srbije: ??

☐ Završena ☐ U toku ☐ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Koje su, po vašem mišljenju, najvažnije teme o kojima bi želeli da dobijete više informacija u vezano za prekogranično/regionalno upravljanje vodama i vodnim resursima?

MOGUĆNOST O UČESTVOVANJU U PROJEKTIMA.

Da li smatrate da je ovaj tip radionica/okruglih stolova koristan:

☒ Da ☐ Ne ☐ Nemam stav

Dodatni komentari:



Saradnja radi poboljšanja vodosnabdevanja na području Jadranskog sliva



UPITNIK O UPRAVLJANJU PREKOGRANIČNIM / REGIONALNIM SISTEMIMA ZA VODOSNABDEVANJE I VODNIM RESURSIMA

Aktivnosti koje se odnose na kapitalizaciju i održivost projekta su važna komponenta koja će poslužiti kao okvir za razmenu bitnih iskustva i znanja od značaja za prekogranične / regionalne sisteme vodosnabdevanja i vodne resurse. Predviđena je razmena informacija i podataka zainteresovanih strana, državnih institucija, naučno-istraživačkih organizacija, i drugo.

Informacije i odgovori prikupljeni tokom nacionalnih radionica, u svih 8 zemalja, predstavljaju veoma važne ulazne podatke i doprinose u velikoj meri uspešnoj realizaciji DRINKADRIA projekta.

Ime: Prezime: Institucija/ Organizacija: (Ukoliko želite da ostanete anonimni, niste u obavezi da popunite ovaj deo)	
Delokrug rada Vaše institucije/ organizacije:	
<input checked="" type="checkbox"/> Javno komunalno preduzeće <input type="checkbox"/> Institucije: <input type="checkbox"/> lokalna <input type="checkbox"/> regionalna <input type="checkbox"/> nacionalna <input type="checkbox"/> Istraživačka organizacija <input type="checkbox"/> Udruženje vodovoda <input type="checkbox"/> ostalo (molimo naznačite):	
Vaše radne aktivnosti se uglavnom odnose na:	
<input type="checkbox"/> vodosnabdevanje <input type="checkbox"/> zaštitu voda <input type="checkbox"/> obrazovanje/istraživanje <input type="checkbox"/> međunarodna saradnja <input type="checkbox"/> finasije/zakonodavstvo <input checked="" type="checkbox"/> ostalo, navedite: <i>upravljanje potrošnjom</i>	
Vaše aktivnosti se, u prostornom smislu, najviše odnose na sledeći nivo: (Molimo Vas da koristite procentualnu procenu tako da ukupan zbir bude 100%) Primer : lokalni nivo -55%, nacionalni -25%, ostalo - 20% lokalni <i>100</i> %, regionalni _ %, nacionalni _ %, međunarodni _ %, ostalo(molimo Vas navedite) : _____ %	
Koji su trenutno najveći problemi i otvorena pitanja vezano za upravljanje sistemima za vodosnabdevanje? (Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema/otvorena pitanja)	
1 Gubici <input type="checkbox"/> Količina <input type="checkbox"/> Kvalitet <input checked="" type="checkbox"/> Cena vode 2 Zakonodavni/ strateški okvir <input checked="" type="checkbox"/> Nedostatak finasijskih sredstava <input type="checkbox"/> Infrastruktura <input type="checkbox"/> Kapaciteti : <input checked="" type="checkbox"/> institucionalni <input checked="" type="checkbox"/> tehnički <input checked="" type="checkbox"/> ljudski <input type="checkbox"/> Klimatske promene <input type="checkbox"/> Nedovoljna saradnja <input type="checkbox"/> ostalo(navedite):	

Molimo Vas rangirajte sledeće koje detaljnije opisuju prethodno navedene probleme/otvorena pitanja :
(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

GUBICI

- 1 ☒ neovlašćena potrošnja 2 ☐ greške u merenju 3 ☐ procurivanje u distributivnoj mreži
☐ curenje u vodovodnim objektima ☐ ostalo(navedite)

KOLIČINA

- ☐ porast potrošnje ☐ sezone varijacije ☐ zapremina rezervoarskog prostora
☐ promene namene i koršćenja zemljišta ☐ velika potrošnja ostalih sektora (poljoprivreda, Industrija, itd)
☐ klimatske promene ☐ ostalo(navedite) *Mislino da neovlašćeno potrošnje u količini*

KVALITET

- 4 ☒ tačkasti izvori zagađenja 2 ☒ rasuti izvori zagađenja 3 ☐ problemi vezani za izvorišta
☒ promene namene i koršćenja zemljišta ☐ sezone varijacije ☐ klimatske promene
☐ ostalo(navedite)

ORGANIČENJA U VODOSNABDEVANJU

- 4 ☒ neadekvatna mreža 2 ☒ kapacitet crpnih stanica ☐ nedovoljno rezervoara
☒ slabo održavanje distributivne mreže i sistema ☐ dotrajnost
☐ ostalo(navedite)

Po vašem mišljenju, koja su najveća ograničenja u vezi vodosnabdevanja u bliskoj budućnosti (narednih 25 - 30 godina)?

(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- 3 ☒ gubici ☐ količina ☐ kvalitet 4 ☐ cena vode ☐ zakonodavni i strateški okvir
☒ nedostatak finansijskih sredstava ☐ infrastruktura ☐ Kapaciteti: ☐ institucionalni 5 ☒ tehnički 4 ☒ ljudski
☐ ostalo(navedite):

Molimo Vas rangirajte po značaju aktivnosti i korake koji mogu poboljšati vodosnabdevanje u odnosu na prethodno pomenute probleme i otvorena pitanja?

(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- ☐ Više informacija o uticaju klimatskih promena na vodne resurse i budući razvoj/planiranje;
☐ Bolje razumevanje neizvesnosti u vezi klimatskih promena i njihovog uticaja na mere adaptacije;
☒ Više informacija o budućoj raspoloživosti vodnih resursa i planiranju/razvoju;
☐ Poboľšano znanje o načinu korišćenju zemljišta i zonama sanitarne zaštite;
☒ Više informacija o sigurnosti vodosnabdevanja u budućnosti;
☒ Poboľšanje upravljanja prekograničnim / regionalnim sistemima vodosnabdevanja;
☐ Razvoj zajedničkog protokola za prekogranične / regionalne sisteme vodosnabdevanja;
☐ Implementacija prioritarnih mera radi efikasnijeg upravljanja vodnim resursima i sistemima za vodosnabdevanje;
☒ Smanjenje gubitaka i kontinuirani monitoring procurivanja;
☒ Primena savremenih metodologija za kontinuirani monitoring: curenja, kvaliteta vode, rada pumpi, itd;
☐ Razvoj web stranice koja će unaprediti saradnju, razmenu i transfer znanja, koji se odnose na probleme u vodosnabdevanju i upravljanju vodnim resursima;
☐ Ostalo(navedite):

Da li smatrate da je neke probleme/otvorena pitanja od opšteg interesa/ multidisciplinarna (cross-cutting) moguće rešiti:

(Molimo Vas rangirajte ih na sledeći način: **1 najveći**, **5 najmanji** rang, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- 5 ☐ Strateški pristup koji će rešiti većinu problema / otvorenih pitanja
4 ☐ Individualne strategije i smernice razvoja koje će se baviti većinom pitanja
4 ☐ Unapređenje saradnje među sektorima
3 ☐ Bolja saradnja institucija na lokalnom i nacionalnom nivou
1 ☐ Više finansijskih sredstava
2 ☐ Cena vode
☐ Ostalo (navedite):

Koja su 3 najznačajnija aktera / aktivnosti za poboljšanje upravljanja sistemima za vodosnabdevanje i vodnim resursima?

- *тачно познавање система*
- *боља организација привреде*
- *поветиће својих рудника о озбиљности проблема*

Koje su aktivnosti koje Vaša institucija / organizacija može sprovesti radi poboljšanja upravljanja sistemima za vodosnabdevanje i vodnim resursima i doprineti njihovoj održivosti?

пређахне мере

Da li smatrate da samo aktivnosti i mere na državnom nivou doprinose poboljšanju vodosnabdevanja?

☐ Da ☒ Ne

Ukoliko je odgovor "Ne", molimo Vas navedite ostale Institucionalne nivoe od značaja:

и не нивоу самот предузећа

U kojoj meri ste upoznati sa ulogom i aktivnostima bilateralnih komisija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima?

☐ Potpuno ☐ Umereno ☒ Nedovoljno

U kojoj meri ste upoznati sa ulogom i aktivnostima lokalnih institucija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje?

☐ Potpuno ☐ Umereno ☒ Nedovoljno

Da li postoji zakonodavni okvir (sporazumi, ugovori, Memorandum o razumevanju, i drugo) koji su značajni za prekogranično / regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima u Srbiji sa kojima ste Vi upoznati?

☐ Da ☒ Ne

Ukoliko je odgovor "Da", molimo Vas navedite naziv:

U kojoj meri ste upoznati sa problemima/otvorenim pitanjima i ograničenjima koja se odnose na prekogranične/regionalne vodne resurse?

☐ Potpuno ☒ Umereno ☐ Nedovoljno

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Stepen implementacije planova upravljanja prekograničnim slivovima:

☐ Završena ☐ U toku ☐ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

нимак сигурна на нисама одговорна

Stepen implementacije planova upravljanja vodama na teritoriji Republike Srbije:

☐ Završena ☐ U toku ☐ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

као и претходни одговор

Koje su, po vašem mišljenju, najvažnije teme o kojima bi želeli da dobijete više informacija u vezano za prekogranično/regionalno upravljanje vodama i vodnim resursima?

*и саопшћено јавношћу са правним регулативама
у дој однаси*

Da li smatrate da je ovaj tip radionica/okruglih stolova koristan:

☒ Da ☐ Ne ☐ Nemam stav

Dodatni komentari:



Saradnja radi poboljšanja vodosnabdevanja
na području Jadranskog sliva



UPITNIK O UPRAVLJANJU PREKOGRANIČNIM / REGIONALNIM SISTEMIMA ZA VODOSNABDEVANJE I VODNIM RESURSIMA

Aktivnosti koje se odnose na kapitalizaciju i održivost projekta su važna komponenta koja će poslužiti kao okvir za razmenu bitnih iskustva i znanja od značaja za prekogranične / regionalne sisteme vodosnabdevanja i vodne resurse. Predviđena je razmena informacija i podataka zainteresovanih strana, državnih institucija, naučno-istraživačkih organizacija, i drugo.

Informacije i odgovori prikupljeni tokom nacionalnih radionica, u svih 8 zemalja, predstavljaju veoma važne ulazne podatke i doprinose u velikoj meri uspešnoj realizaciji DRINKADRIA projekta.

Ime:	Miodrag	Aleksandar
Prezime:	Stojiljkovic	Petrovic
Institucija/ Organizacija: (Ukoliko želite da ostanete anonimni, niste u obavezi da popunite ovaj deo)	JKP "Miloš Mitrović" Velika Plana	
Delokrug rada Vaše institucije/ organizacije: <input checked="" type="checkbox"/> Javno komunalno preduzeće <input type="checkbox"/> Institucije: <input type="checkbox"/> lokalna <input type="checkbox"/> regionalna <input type="checkbox"/> nacionalna <input type="checkbox"/> Istraživačka organizacija <input type="checkbox"/> Udruženje vodovoda <input type="checkbox"/> ostalo (molimo naznačite):		
Vaše radne aktivnosti se uglavnom odnose na: <input checked="" type="checkbox"/> vodosnabdevanje <input checked="" type="checkbox"/> zaštitu voda <input checked="" type="checkbox"/> obrazovanje/istraživanje <input type="checkbox"/> međunarodna saradnja <input checked="" type="checkbox"/> finansije/zakonodavstvo <input type="checkbox"/> ostalo, navedite:		
Vaše aktivnosti se, u prostornom smislu, najviše odnose na sledeći nivo: (Molimo Vas da koristite procentualnu procenu tako da ukupan zbir bude 100%) Primer : lokalni nivo -55%, nacionalni -25%, ostalo - 20% lokalni <u>90</u> %, regionalni <u>5</u> %, nacionalni <u> </u> %, međunarodni <u> </u> %, ostalo(molimo Vas navedite) : <u> 5 </u> %		
Koji su trenutno najveći problemi i otvorena pitanja vezano za upravljanje sistemima za vodosnabdevanje? (Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema/otvorena pitanja) <input checked="" type="checkbox"/> 1 Gubici <input type="checkbox"/> 2 Količina <input checked="" type="checkbox"/> 4 Kvalitet <input checked="" type="checkbox"/> 2 Cena vode <input type="checkbox"/> 3 Zakonodavni/ strateški okvir <input checked="" type="checkbox"/> 3 Nedostatak finansijskih sredstava <input checked="" type="checkbox"/> 5 Infrastruktura <input type="checkbox"/> 4 Kapaciteti : <input type="checkbox"/> institucionalni <input type="checkbox"/> tehnički <input type="checkbox"/> ljudski <input type="checkbox"/> 5 Klimatske promene <input type="checkbox"/> Nedovoljna saradnja <input type="checkbox"/> ostalo(navedite):		

Molimo Vas rangirajte sledeće koje detaljnije opisuje prethodno navedene probleme/otvorena pitanja :
(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

GUBICI

- 2 neovlašćena potrošnja 1 greške u merenju 4 procurivanje u distributivnoj mreži
3 curenje u vodovodnim objektima 5 ostalo(navedite)

KOLIČINA

- 4 porast potrošnje 2 sezonske varijacije 5 zapremina rezervoarskog prostora
1 promene namene i koršćenja zemljišta 3 velika potrošnja ostalih sektora (poljoprivreda, industrija, itd)
1 klimatske promene 1 ostalo(navedite)

KVALITET

- 3 tačkasti izvori zagađenja 4 rasuti izvori zagađenja 1 problemi vezani za izvorišta
1 promene namene i koršćenja zemljišta 5 sezonske varijacije 1 klimatske promene
1 ostalo(navedite)

ORGANIČENJA U VODOSNABDEVANJU

- 2 neadekvatna mreža 1 kapacitet crpnih stanica 4 nedovoljno rezervoara
1 slabo održavanje distributivne mreže i sistema 1 dotrajalost
1 ostalo(navedite)

Po vašem mišljenju, koja su najveća ograničenja u vezi vodosnabdevanja u bliskoj budućnosti (narednih 25 - 30 godina)?

(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- 1 gubici 1 količina 2 kvalitet 3 cena vode 1 zakonodavni i strateški okvir
1 nedostatak finansijskih sredstava 1 infrastruktura 1 Kapaciteti: 1 institucionalni 1 tehnički 1 ljudski
1 ostalo(navedite):

Molimo Vas rangirajte po značaju aktivnosti i korake koji mogu poboljšati vodosnabdevanje u odnosu na prethodno pomenute probleme i otvorena pitanja?

(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- 1 Više informacija o uticaju klimatskih promena na vodne resurse i budući razvoj/planiranje;
1 Bolje razumevanje neizvesnosti u vezi klimatskih promena i njihovog uticaja na mere adaptacije;
1 Više informacija o budućoj raspoloživosti vodnih resursa i planiranju/razvoju;
1 Poboľjšano znanje o načinu korišćenju zemljišta i zonama sanitarne zaštite;
1 Više informacija o sigurnosti vodosnabdevanja u budućnosti;
1 Poboľjšanje upravljanja prekograničnim / regionalnim sistemima vodosnabdevanja;
1 Razvoj zajedničkog protokola za prekogranične / regionalne sisteme vodosnabdevanja;
1 Implementacija prioriternih mera radi efikasnijeg upravljanja vodnim resursima i sistemima za vodosnabdevanje;
1 Smanjenje gubitaka i kontinuirani monitoring procurivanja;
1 Primena savremenih metodologija za kontinuirani monitoring: curenja, kvaliteta vode, rada pumpi, itd;
1 Razvoj web stranice koja će unaprediti saradnju, razmenu i transfer znanja, koji se odnose na probleme u vodosnabdevanju i upravljanju vodnim resursima;
1 Ostalo(navedite):

Da li smatrate da je neke probleme/otvorena pitanja od opšteg interesa/ multidisciplinarna (cross-cutting) moguće rešiti:

(Molimo Vas rangirajte ih na sledeći način: **1 najveći**, **5 najmanji** rang, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- ☒ 1. Strateški pristup koji će rešiti većinu problema / otvorenih pitanja
- ☒ 2. Individualne strategije i smernice razvoja koje će se baviti većinom pitanja
- ☐ 3. Unapređenje saradnje među sektorima
- ☒ 4. Bolja saradnja institucija na lokalnom i nacionalnom nivou
- ☒ 5. Više finansijskih sredstava
- ☒ 6. Cena vode
- ☐ 7. Ostalo (navedite):

Koja su 3 najznačajnija aktera / aktivnosti za poboljšanje upravljanja sistemima za vodosnabdevanje i vodnim resursima?

1. ORGANIZACIONA STRUKTURA
2. UVOĐENJE GIS-A I HIDRAULIČNO MODELIRANJE
3. SMANJENJE GUBITAKA I MONITORING SISTEMA (SKADA)

Koje su aktivnosti koje Vaša institucija / organizacija može sprovesti radi poboljšanja upravljanja sistemima za vodosnabdevanje i vodnim resursima i doprineti njihovoj održivosti?

NAVEDENE AKTIVNOSTI 1, 2 i 3. u PRETHODNOM PITANJU

Da li smatrate da samo aktivnosti i mere na državnom nivou doprinose poboljšanju vodosnabdevanja?

☐ Da ☒ Ne

Ukoliko je odgovor "Ne", molimo Vas navedite ostale institucionalne nivoe od značaja:

SKADIRANJE SA REGIONALNOM I LOCALNOM SAMOUPRAVOM

U kojoj meri ste upoznati sa ulogom i aktivnostima bilateralnih komisija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima?

☐ Potpuno ☐ Umereno ☒ Nedovoljno

U kojoj meri ste upoznati sa ulogom i aktivnostima lokalnih institucija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje?

☐ Potpuno ☒ Umereno ☐ Nedovoljno

Da li postoji zakonodavni okvir (sporazumi, ugovori, Memorandum o razumevanju, i drugo) koji su značajni za prekogranično / regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima u Srbiji sa kojima ste Vi upoznati?

☐ Da ☒ Ne

Ukoliko je odgovor "Da", molimo Vas navedite naziv:

NITB MI POZNATO

U kojoj meri ste upoznati sa problemima/otvorenim pitanjima i ograničenjima koja se odnose na prekogranične/regionalne vodne resurse?

☐ Potpuno ☐ Umereno ☒ Nedovoljno

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Stepen implementacije planova upravljanja prekograničnim slivovima:

☐ Završena ☐ U toku ☒ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Stepen implementacije planova upravljanja vodama na teritoriji Republike Srbije:

☐ Završena ☐ U toku ☒ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Koje su, po vašem mišljenju, najvažnije teme o kojima bi želeli da dobijete više informacija u vezano za prekogranično/regionalno upravljanje vodama i vodnim resursima ?

TEMA MEDYTRZAVLJOG REGIONALNOG UPOSNADEBUTJA I PREČISAVAJA OTPADNIH VODA

Da li smatrate da je ovaj tip radionica/okruglih stolova koristan:

☒ Da ☐ Ne ☐ Nemam stav

Dodatni kometari:



**Saradnja radi poboljšanja vodosnabdevanja
na području Jadranskog sliva**



**UPITNIK O UPRAVLJANJU PREKOGRANIČNIM / REGIONALNIM
SISTEMIMA ZA VODOSNABDEVANJE I VODNIM RESURSIMA**

Aktivnosti koje se odnose na kapitalizaciju i održivost projekta su važna komponenta koja će poslužiti kao okvir za razmenu bitnih iskustva i znanja od značaja za prekogranične / regionalne sisteme vodosnabdevanja i vodne resurse. Predviđena je razmena informacija i podataka zainteresovanih strana, državnih institucija, naučno-istraživačkih organizacija, i drugo.

Informacije i odgovori prikupljeni tokom nacionalnih radionica, u svih 8 zemalja, predstavljaju veoma važne ulazne podatke i doprinose u velikoj meri uspešnoj realizaciji DRINKADRIA projekta.

Ime:	MARIJA
Prezime:	ĐILAGović
Institucija/ Organizacija: (Ukoliko želite da ostanete anonimni, niste u obavezi da popunite ovaj deo)	MINISTARSTVO ENERGETIKE, RAZVOJA I ŽIVOTNE SREDINE
Delokrug rada Vaše institucije/ organizacije: <input type="checkbox"/> Javno komunalno preduzeće <input type="checkbox"/> Institucije: <input type="checkbox"/> lokalna <input type="checkbox"/> regionalna <input checked="" type="checkbox"/> nacionalna <input type="checkbox"/> Istraživačka organizacija <input type="checkbox"/> Udruženje vodovoda <input type="checkbox"/> ostalo (molimo naznačiti): <u>DRŽAVNA UPRAVA</u>	
Vaše radne aktivnosti se uglavnom odnose na: <input type="checkbox"/> vodosnabdevanje <input checked="" type="checkbox"/> zaštitu voda <input type="checkbox"/> obrazovanje/istraživanje <input type="checkbox"/> međunarodna saradnja <input type="checkbox"/> finansije/zakonodavstvo <input type="checkbox"/> ostalo, navedite:	
Vaše aktivnosti se, u prostornom smislu, najviše odnose na sledeći nivo: (Molimo Vas da koristite procentualnu procenu tako da ukupan zbir bude 100%) Primer : lokalni nivo -55%, nacionalni -25%, ostalo - 20% lokalni _ % , regionalni _ % , nacionalni <u>20</u> % , međunarodni <u>10</u> % , ostalo(molimo Vas navedite) : _____ , %	
Koji su trenutno najveći problemi i otvorena pitanja vezano za upravljanje sistemima za vodosnabdevanje? (Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema/otvorena pitanja) <u>1</u> Gubici <input type="checkbox"/> Količina <u>4</u> Kvalitet <u>2</u> <input checked="" type="checkbox"/> Cena vode <input type="checkbox"/> Zakonodavni/ strateški okvir <input checked="" type="checkbox"/> Nedostatak finansijskih sredstava <input type="checkbox"/> Infrastruktura <u>3</u> Kapaciteti : <input type="checkbox"/> institucionalni <input checked="" type="checkbox"/> tehnički <input checked="" type="checkbox"/> ljudski <input type="checkbox"/> Klimatske promene <input type="checkbox"/> Nedovoljna saradnja <input type="checkbox"/> ostalo(navedite):	

Molimo Vas rangirajte sledeće koje detaljnije opisuje prethodno navedene probleme/otvorena pitanja :
(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

GUBICI

- ☒ neovlašćena potrošnja ☒ greške u merenju ☒ procurivanje u distributivnoj mreži
☒ curenje u vodovodnim objektima ☐ ostalo(navedite)

KOLIČINA

- ☐ porast potrošnje ☐ sezonske varijacije ☐ zapremina rezervoarskog prostora
☐ promene namene i koršćenja zemljišta ☐ velika potrošnja ostalih sektora (poljoprivreda, industrija, itd)
☐ klimatske promene ☐ ostalo(navedite)

KVALITET

- ☒ tačkasti izvori zagađenja ☒ rasuti izvori zagađenja ☒ problemi vezani za izvorišta
☒ promene namene i koršćenja zemljišta ☒ sezonske varijacije ☐ klimatske promene
☐ ostalo(navedite)

ORGANIČENJA U VODOSNABDEVANJU

- ☐ neadekvatna mreža ☐ kapacitet crpnih stanica ☐ nedovoljno rezervoara
☐ slabo održavanje distributivne mreže i sistema ☐ dotrajalost
☐ ostalo(navedite)

Po vašem mišljenju, koja su najveća ograničenja u vezi vodosnabdevanja u bliskoj budućnosti (narednih 25 - 30 godina)?

(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- ☒ gubici ☐ količina ☒ kvalitet ☒ cena vode ☐ zakonodavni i strateški okvir
☒ nedostatak finansijskih sredstava ☐ infrastruktura ☒ Kapaciteti: ☐ institucionalni ☐ tehnički ☐ ljudski
☐ ostalo(navedite):

Molimo Vas rangirajte po značaju aktivnosti i korake koji mogu poboljšati vodosnabdevanje u odnosu na prethodno pomenute probleme i otvorena pitanja?

(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- ☐ Više informacija o uticaju klimatskih promena na vodne resurse i budući razvoj/planiranje;
☒ Bolje razumevanje neizvesnosti u vezi klimatskih promena i njihovog uticaja na mere adaptacije;
☒ Više informacija o budućoj raspoloživosti vodnih resursa i planiranju/razvoju;
☐ Poboljšano znanje o načinu korišćenju zemljišta i zonama sanitarne zaštite;
☐ Više informacija o sigurnosti vodosnabdevanja u budućnosti;
☒ Poboljšanje upravljanja prekograničnim / regionalnim sistemima vodosnabdevanja;
☐ Razvoj zajedničkog protokola za prekogranične / regionalne sisteme vodosnabdevanja;
☒ Implementacija prioriternih mera radi efikasnijeg upravljanja vodnim resursima i sistemima za vodosnabdevanje;
☒ Smanjenje gubitaka i kontinuirani monitoring procurivanja;
☐ Primena savremenih metodologija za kontinuirani monitoring: curenja, kvaliteta vode, rada pumpi, itd;
☐ Razvoj web stranice koja će unaprediti saradnju, razmenu i transfer znanja, koji se odnose na probleme u vodosnabdevanju i upravljanju vodnim resursima;
☐ Ostalo(navedite):

U kojoj meri ste upoznati sa problemima/otvorenim pitanjima i ograničenjima koja se odnose na prekogranične/regionalne vodne resurse?

☒ Potpuno ☐ Umereno ☐ Nedovoljno

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Stepen implementacije planova upravljanja prekograničnim slivovima:

☐ Završena ☒ U toku ☐ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Stepen implementacije planova upravljanja vodama na teritoriji Republike Srbije:

☐ Završena ☐ U toku ☒ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Planovi upravljanja za bogatstvo prirodnih resursa u okviru države u RS itn su plan

Koje su, po vašem mišljenju, najvažnije teme o kojima bi želeli da dobijete više informacija u vezano za prekogranično/regionalno upravljanje vodama i vodnim resursima ?

Da li smatrate da je ovaj tip radionica/okruglih stolova koristan:

☒ Da ☐ Ne ☐ Nemam stav

Dodatni komentari:



Saradnja radi poboljšanja vodosnabdevanja
na području Jadranskog sliva



UPITNIK O UPRAVLJANJU PREKOGRANIČNIM / REGIONALNIM SISTEMIMA ZA VODOSNABDEVANJE I VODNIM RESURSIMA

Aktivnosti koje se odnose na kapitalizaciju i održivost projekta su važna komponenta koja će poslužiti kao okvir za razmenu bitnih iskustva i znanja od značaja za prekogranične / regionalne sisteme vodosnabdevanja i vodne resurse. Predviđena je razmena informacija i podataka zainteresovanih strana, državnih institucija, naučno-istraživačkih organizacija, i drugo.

Informacije i odgovori prikupljeni tokom nacionalnih radionica, u svih 8 zemalja, predstavljaju veoma važne ulazne podatke i doprinose u velikoj meri uspešnoj realizaciji DRINKADRIA projekta.

Ime:	Tina
Prezime:	Šavić
Institucija/ Organizacija: (Ukoliko želite da ostanete anonimni, niste u obavezi da popunite ovaj deo)	Ministarstvo energetike, razvoja i zaštite životne sredine
Delokrug rada Vaše institucije/ organizacije: <input type="checkbox"/> Javno komunalno preduzeće <input type="checkbox"/> Institucije: <input type="checkbox"/> lokalna <input type="checkbox"/> regionalna <input checked="" type="checkbox"/> nacionalna <input type="checkbox"/> Istraživačka organizacija <input type="checkbox"/> Udruženje vodovoda <input type="checkbox"/> ostalo (molimo naznačite):	
Vaše radne aktivnosti se uglavnom odnose na: <input type="checkbox"/> vodosnabdevanje <input checked="" type="checkbox"/> zaštitu voda <input type="checkbox"/> obrazovanje/istraživanje <input checked="" type="checkbox"/> međunarodna saradnja <input checked="" type="checkbox"/> finansije/zakonodavstvo <input type="checkbox"/> ostalo, navedite:	
Vaše aktivnosti se, u prostornom smislu, najviše odnose na sledeći nivo: (Molimo Vas da koristite procentualnu procenu tako da ukupan zbir bude 100%) Primer : lokalni nivo -55%, nacionalni -25%, ostalo - 20% lokalni _ % , regionalni _ % , nacionalni 55 % , međunarodni 0 % , ostalo(molimo Vas navedite) : _____ , %	
Koji su trenutno najveći problemi i otvorena pitanja vezano za upravljanje sistemima za vodosnabdevanje? (Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema/otvorena pitanja) <input checked="" type="checkbox"/> Gubici <input type="checkbox"/> Količina <input type="checkbox"/> Kvalitet <input checked="" type="checkbox"/> Cena vode <input checked="" type="checkbox"/> Zakonodavni/ strateški okvir <input checked="" type="checkbox"/> Nedostatak finansijskih sredstava <input checked="" type="checkbox"/> Infrastruktura <input checked="" type="checkbox"/> Kapaciteti : <input checked="" type="checkbox"/> institucionalni <input checked="" type="checkbox"/> tehnički <input type="checkbox"/> ljudski <input checked="" type="checkbox"/> Klimatske promene <input type="checkbox"/> Nedovoljna saradnja <input type="checkbox"/> ostalo(navedite):	

Molimo Vas rangirajte sledeće koje detaljnije opisuju prethodno navedene probleme/otvorena pitanja :
(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

GUBICI

- ☒ neovlašćena potrošnja ☒ greške u merenju ☒ procurivanje u distributivnoj mreži
☒ curenje u vodovodnim objektima ☐ ostalo(navedite)

KOLIČINA

- ☒ porast potrošnje ☒ sezonske varijacije ☒ zapremina rezervoarskog prostora
☒ promene namene i koršćenja zemljišta ☒ velika potrošnja ostalih sektora (poljoprivreda, industrija, itd)
☒ klimatske promene ☐ ostalo(navedite)

KVALITET

- ☒ tačkasti izvori zagađenja ☒ rasuti izvori zagađenja ☒ problemi vezani za izvorišta
☒ promene namene i koršćenja zemljišta ☒ sezonske varijacije ☒ klimatske promene
☐ ostalo(navedite)

ORGANIČENJA U VODOSNABDEVANJU

- ☒ neadekvatna mreža ☒ kapacitet crpnih stanica ☐ nedovoljno rezervoara
☒ slabo održavanje distributivne mreže i sistema ☒ dotrajalost
☐ ostalo(navedite)

Po vašem mišljenju, koja su najveća ograničenja u vezi vodosnabdevanja u bliskoj budućnosti (narednih 25 - 30 godina)?

(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- ☒ gubici ☐ količina ☐ kvalitet ☒ cena vode ☒ zakonodavni i strateški okvir
☒ nedostatak finansijskih sredstava ☒ infrastruktura ☐ Kapaciteti: ☒ institucionalni ☒ tehnički ☐ ljudski
☐ ostalo(navedite):

Molimo Vas rangirajte po značaju aktivnosti i korake koji mogu poboljšati vodosnabdevanje u odnosu na prethodno pomenute probleme i otvorena pitanja?

(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- ☒ Više informacija o uticaju klimatskih promena na vodne resurse i budući razvoj/planiranje;
☒ Bolje razumevanje neizvesnosti u vezi klimatskih promena i njihovog uticaja na mere adaptacije;
☒ Više informacija o budućoj raspoloživosti vodnih resursa i planiranju/razvoju;
☒ Poboljšano znanje o načinu korišćenju zemljišta i zonama sanitarne zaštite;
☒ Više informacija o sigurnosti vodosnabdevanja u budućnosti;
☒ Poboljšanje upravljanja prekograničnim / regionalnim sistemima vodosnabdevanja;
☒ Razvoj zajedničkog protokola za prekogranične / regionalne sisteme vodosnabdevanja;
☒ Implementacija prioriternih mera radi efikasnijeg upravljanja vodnim resursima i sistemima za vodosnabdevanje;
☒ Smanjenje gubitaka i kontinuirani monitoring procurivanja;
☒ Primena savremenih metodologija za kontinuirani monitoring: curenja, kvaliteta vode, rada pumpi, itd;
☐ Razvoj web stranice koja će unaprediti saradnju, razmenu i transfer znanja, koji se odnose na probleme u vodosnabdevanju i upravljanju vodnim resursima;
☐ Ostalo(navedite):

Da li smatrate da je neke probleme/otvorena pitanja od opšteg interesa/ multidisciplinarna (cross-cutting) moguće rešiti:

(Molimo Vas rangirajte ih na sledeći način: **1 najveći**, **5 najmanji** rang, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- ☒ Strateški pristup koji će rešiti većinu problema / otvorenih pitanja
- ☒ Individualne strategije i smernice razvoja koje će se baviti većinom pitanja
- ☒ Unapređenje saradnje među sektorima
- ☒ Bolja saradnja institucija na lokalnom i nacionalnom nivou
- ☒ Više finansijskih sredstava
- ☒ Cena vode
- ☐ Ostalo (navedite):

Koja su 3 najznačajnija aktera / aktivnosti za poboljšanje upravljanja sistemima za vodosnabdevanje i vodnim resursima?

*Država
Lokalna samouprava
JWP*

Koje su aktivnosti koje Vaša institucija / organizacija može sprovesti radi poboljšanja upravljanja sistemima za vodosnabdevanje i vodnim resursima i doprineti njihovoj održivosti?

Dovođenje stanovnika i podstanovnika u anketu

Da li smatrate da samo aktivnosti i mere na državnom nivou doprinose poboljšanju vodosnabdevanja?

☐ Da ☐ Ne

Ukoliko je odgovor "Ne", molimo Vas navedite ostale institucionalne nivoe od značaja:

Lokalna samouprava, Javna komunalna preduzeća

U kojoj meri ste upoznati sa ulogom i aktivnostima bilateralnih komisija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima?

☐ Potpuno ☒ Umereno ☐ Nedovoljno

U kojoj meri ste upoznati sa ulogom i aktivnostima lokalnih institucija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima?

☐ Potpuno ☒ Umereno ☐ Nedovoljno

Da li postoji zakonodavni okvir (sporazumi, ugovori, Memorandum o razumevanju, i drugo) koji su značajni za prekogranično / regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima u Srbiji sa kojima ste Vi upoznati?

☒ Da ☒ Ne

Ukoliko je odgovor "Da", molimo Vas navedite naziv:

Savetnik ministarstva, ICPR —

U kojoj meri ste upoznati sa problemima/otvorenim pitanjima i ograničenjima koja se odnose na prekogranične/regionalne vodne resurse?

☐ Potpuno ☒ Umereno ☐ Nedovoljno

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Stepen implementacije planova upravljanja prekograničnim slivovima:

☐ Završena ☒ U toku ☐ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Stepen implementacije planova upravljanja vodama na teritoriji Republike Srbije:

☐ Završena ☒ U toku ☐ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Koje su, po vašem mišljenju, najvažnije teme o kojima bi želeli da dobijete više informacija u vezano za prekogranično/regionalno upravljanje vodama i vodnim resursima ?

Da li smatrate da je ovaj tip radionica/okruglih stolova koristan:

☒ Da ☐ Ne ☐ Nemam stav

Dodatni komentari:

/



**Saradnja radi poboljšanja vodosnabdevanja
na području Jadranskog sliva**



**UPITNIK O UPRAVLJANJU PREKOGRANIČNIM / REGIONALNIM
SISTEMIMA ZA VODOSNABDEVANJE I VODNIM RESURSIMA**

Aktivnosti koje se odnose na kapitalizaciju i održivost projekta su važna komponenta koja će poslužiti kao okvir za razmenu bitnih iskustva i znanja od značaja za prekogranične / regionalne sisteme vodosnabdevanja i vodne resurse. Predviđena je razmena informacija i podataka zainteresovanih strana, državnih institucija, naučno-istraživačkih organizacija, i drugo.

Informacije i odgovori prikupljeni tokom nacionalnih radionica, u svih 8 zemalja, predstavljaju veoma važne ulazne podatke i doprinose u velikoj meri uspešnoj realizaciji DRINKADRIA projekta.

Ime: Prezime: Institucija/ Organizacija: (Ukoliko želite da ostanete anonimni, niste u obavezi da popunite ovaj deo)	DRAGAN ŽIVANOVIĆ JKP "Vodovod Valjevo"
Delokrug rada Vaše institucije/ organizacije: <input checked="" type="checkbox"/> Javno komunalno preduzeće <input type="checkbox"/> Institucije: <input checked="" type="checkbox"/> lokalna <input type="checkbox"/> regionalna <input type="checkbox"/> nacionalna <input type="checkbox"/> Istraživačka organizacija <input type="checkbox"/> Udruženje vodovoda <input type="checkbox"/> ostalo (molimo naznačite):	
Vaše radne aktivnosti se uglavnom odnose na: <input checked="" type="checkbox"/> vodosnabdevanje <input type="checkbox"/> zaštitu voda <input type="checkbox"/> obrazovanje/istraživanje <input type="checkbox"/> međunarodna saradnja <input type="checkbox"/> finansije/zakonodavstvo <input type="checkbox"/> ostalo, navedite:	
Vaše aktivnosti se, u prostornom smislu, najviše odnose na sledeći nivo: <i>(Molimo Vas da koristite procentualnu procenu tako da ukupan zbir bude 100%)</i> <i>Primer : lokalni nivo -55%, nacionalni -25%, ostalo - 20%</i> lokalni <u>100</u> %, regionalni _%, nacionalni _%, međunarodni _%, ostalo(molimo Vas navedite) : _____, %	
Koji su trenutno najveći problemi i otvorena pitanja vezano za upravljanje sistemima za vodosnabdevanje? <i>(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema/otvorena pitanja)</i> <div style="display: flex; justify-content: space-between;"> <div> <input checked="" type="checkbox"/> 1 Gubici <input type="checkbox"/> 3 Količina <input type="checkbox"/> 3 Kvalitet </div> <div> <input type="checkbox"/> 2 Cena vode </div> </div> <div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> Zakonodavni/ strateški okvir <input type="checkbox"/> Nedostatak finansijskih sredstava </div> <div> <input type="checkbox"/> 4 Infrastruktura </div> </div> <div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> Kapaciteti : <input type="checkbox"/> institucionalni <input type="checkbox"/> tehnički <input type="checkbox"/> 5 ljudski </div> </div> <div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> Klimatske promene <input type="checkbox"/> Nedovoljna saradnja </div> </div> <input type="checkbox"/> ostalo(navedite):	

Molimo Vas rangirajte sledeće koje detaljnije opisuje prethodno navedene probleme/otvorena pitanja :
(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

GUBICI

- 4 ☐ neovlašćena potrošnja ☐ greške u merenju 2 ☐ procurivanje u distributivnoj mreži
☐ curenje u vodovodnim objektima ☐ ostalo(navedite)

KOLIČINA

- 1 ☐ porast potrošnje ☐ sezone varijacije 2 ☐ zapremina rezervoarskog prostora
☐ promene namene i koršćenja zemljišta 1 ☐ velika potrošnja ostalih sektora (poljoprivreda, industrija, itd)
☐ klimatske promene ☐ ostalo(navedite)

KVALITET

- ☐ tačkasti izvori zagađenja ☐ rasuti izvori zagađenja 1 ☐ problemi vezani za izvorišta
☐ promene namene i koršćenja zemljišta ☐ sezone varijacije 2 ☐ klimatske promene
☐ ostalo(navedite)

ORGANIČENJA U VODOSNABDEVANJU

- ☐ neadekvatna mreža ☐ kapacitet crpnih stanica 3 ☐ nedovoljno rezervoara
☐ slabo održavanje distributivne mreže i sistema 2 ☐ dotrajalost
☐ ostalo(navedite)

Po vašem mišljenju, koja su najveća ograničenja u vezi vodosnabdevanja u bliskoj budućnosti (narednih 25 - 30 godina)?

(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- 1 ☐ gubici ☐ količina ☐ kvalitet 2 ☐ cena vode ☐ zakonodavni i strateški okvir
☐ nedostatak finasijskih sredstava 4 ☐ infrastruktura ☐ Kapaciteti: ☐ institucionalni ☐ tehnički ☐ ljudski
☐ ostalo(navedite):

Molimo Vas rangirajte po značaju aktivnosti i korake koji mogu poboljšati vodosnabdevanje u odnosu na prethodno pomenute probleme i otvorena pitanja?

(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- 3 ☐ Više informacija o uticaju klimatskih promena na vodne resurse i budući razvoj/planiranje;
☐ Bolje razumevanje neizvesnosti u vezi klimatskih promena i njihovog uticaja na mere adaptacije;
☐ Više informacija o budućoj raspoloživosti vodnih resursa i planiranju/razvoju;
☐ Poboljšano znanje o načinu korišćenju zemljišta i zonama sanitarne zaštite;
☐ Više informacija o sigurnosti vodosnabdevanja u budućnosti;
☐ Poboljšanje upravljanja prekograničnim / regionalnim sistemima vodosnabdevanja;
☐ Razvoj zajedničkog protokola za prekogranične / regionalne sisteme vodosnabdevanja;
☐ Implementacija prioriternih mera radi efikasnijeg upravljanja vodnim resursima i sistemima za vodosnabdevanje;
☐ Smanjenje gubitaka i kontinuirani monitoring procurivanja;
☐ 2 Primena savremenih metodologija za kontinuirani monitoring: curenja, kvaliteta vode, rada pumpi, itd;
☐ Razvoj web stranice koja će unaprediti saradnju, razmenu i transfer znanja, koji se odnose na probleme u vodosnabdevanju i upravljanju vodnim resursima;
☐ Ostalo(navedite):

Da li smatrate da je neke probleme/otvorena pitanja od opšteg interesa/ multidisciplinarna (cross-cutting) moguće rešiti:

(Molimo Vas rangirajte ih na sledeći način: **1 najveći**, **5 najmanji** rang, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- 1
3
4
2
5
- ☐ Strateški pristup koji će rešiti većinu problema / otvorenih pitanja
 - ☐ Individualne strategije i smernice razvoja koje će se baviti većinom pitanja
 - ☐ Unapređenje saradnje među sektorima
 - ☐ Bolja saradnja institucija na lokalnom i nacionalnom nivou
 - ☐ Više finansijskih sredstava
 - ☐ Cena vode
 - ☐ Ostalo (navedite):

Koja su 3 najznačajnija aktera / aktivnosti za poboljšanje upravljanja sistemima za vodosnabdevanje i vodnim resursima?

- *persone*
- *lokalna*
- *odgovornost od politike*

Koje su aktivnosti koje Vaša institucija / organizacija može sprovesti radi poboljšanja upravljanja sistemima za vodosnabdevanje i vodnim resursima i doprineti njihovoj održivosti?

- *stabilizacija pritoka*
- *projekat u okviru sistema (protok, putovanja, potrošnja)*

Da li smatrate da samo aktivnosti i mere na državnom nivou doprinose poboljšanju vodosnabdevanja?

☐ Da ☒ Ne

Ukoliko je odgovor "Ne", molimo Vas navedite ostale institucionalne nivoe od značaja:

lokalna, politika

U kojoj meri ste upoznati sa ulogom i aktivnostima bilateralnih komisija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima?

☐ Potpuno ☐ Umereno ☒ Nedovoljno

U kojoj meri ste upoznati sa ulogom i aktivnostima lokalnih institucija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje?

☐ Potpuno ☐ Umereno ☒ Nedovoljno

Da li postoji zakonodavni okvir (sporazumi, ugovori, Memorandum o razumevanju, i drugo) koji su značajni za prekogranično / regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima u Srbiji sa kojima ste Vi upoznati?

☐ Da ☒ Ne

Ukoliko je odgovor "Da", molimo Vas navedite naziv:

U kojoj meri ste upoznati sa problemima/otvorenim pitanjima i ograničenjima koja se odnose na prekogranične/regionalne vodne resurse?

☐ Potpuno ☐ Umereno ☒ Nedovoljno

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Stepen implementacije planova upravljanja prekograničnim slivovima:

☐ Završena ☐ U toku ☒ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Stepen implementacije planova upravljanja vodama na teritoriji Republike Srbije:

☐ Završena ☐ U toku ☒ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Koje su, po vašem mišljenju, najvažnije teme o kojima bi želeli da dobijete više informacija u vezano za prekogranično/regionalno upravljanje vodama i vodnim resursima ?

Морбихосту, протекучасти и хитни отбарења

Da li smatrate da je ovaj tip radionica/okruglih stolova koristan:

☒ Da ☐ Ne ☐ Nemam stav

Dodatni komentari:



**Saradnja radi poboljšanja vodosnabdevanja
na području Jadranskog sliva**



**UPITNIK O UPRAVLJANJU PREKOGRANIČNIM / REGIONALNIM
SISTEMIMA ZA VODOSNABDEVANJE I VODNIM RESURSIMA**

Aktivnosti koje se odnose na kapitalizaciju i održivost projekta su važna komponenta koja će poslužiti kao okvir za razmenu bitnih iskustva i znanja od značaja za prekogranične / regionalne sisteme vodosnabdevanja i vodne resurse. Predviđena je razmena informacija i podataka zainteresovanih strana, državnih institucija, naučno-istraživačkih organizacija, i drugo.

Informacije i odgovori prikupljeni tokom nacionalnih radionica, u svih 8 zemalja, predstavljaju veoma važne ulazne podatke i doprinose u velikoj meri uspešnoj realizaciji DRINKADRIA projekta.

Ime:	<u>ANJANA</u>
Prezime:	<u>NYELJ</u>
Institucija/ Organizacija: (Ukoliko želite da ostanete anonimni, niste u obavezi da popunite ovaj deo)	

Delokrug rada Vaše institucije/ organizacije:

☒ Javno komunalno preduzeće ☐ Institucije: ☐ lokalna ☐ regionalna ☐ nacionalna
☐ Istraživačka organizacija ☐ Udruženje vodovoda ☒ ostalo (molimo naznačite):

Vaše radne aktivnosti se uglavnom odnose na:

☐ vodosnabdevanje ☐ zaštitu voda ☐ obrazovanje/istraživanje
☐ međunarodna saradnja ☐ finansije/zakonodavstvo ☒ ostalo, navedite: POSREDOVANJE I SARADNJA

Vaše aktivnosti se, u prostornom smislu, najviše odnose na sledeći nivo:
(Molimo Vas da koristite procentualnu procenu tako da ukupan zbir bude 100%)
Primer : lokalni nivo -55%, nacionalni -25%, ostalo - 20%

lokalni _ % , regionalni _ % , nacionalni _ % , međunarodni _ % , ostalo(molimo Vas navedite) : 100 , %

Koji su trenutno najveći problemi i otvorena pitanja vezano za upravljanje sistemima za vodosnabdevanje?
(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema/otvorena pitanja)

☒ Gubici ☐ Količina ☐ Kvalitet ☒ Cena vode

☒ Zakonodavni/ strateški okvir ☒ Nedostatak finansijskih sredstava ☐ Infrastruktura

☐ Kapaciteti : ☒ institucionalni ☐ tehnički ☐ ljudski

☐ Klimatske promene ☐ Nedovoljna saradnja

☐ ostalo(navedite):

Molimo Vas rangirajte sledeće koje detaljnije opisuju prethodno navedene probleme/otvorena pitanja :
(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

GUBICI

- ☐ neovlašćena potrošnja ☒ greške u merenju ☒ procurivanje u distributivnoj mreži
☐ curenje u vodovodnim objektima ☐ ostalo(navedite)

KOLIČINA

- ☐ porast potrošnje ☒ sezone varijacije ☐ zapremina rezervoarskog prostora
☐ promene namene i koršćenja zemljišta ☒ velika potrošnja ostalih sektora (poljoprivreda, industrija, itd)
☐ klimatske promene ☐ ostalo(navedite)

KVALITET

- ☐ tačkasti izvori zagađenja ☒ rasuti izvori zagađenja ☒ problemi vezani za izvorišta
☐ promene namene i koršćenja zemljišta ☐ sezone varijacije ☐ klimatske promene
☐ ostalo(navedite)

ORGANIČENJA U VODOSNABDEVANJU

- ☐ neadekvatna mreža ☐ kapacitet crpnih stanica ☐ nedovoljno rezervoara
☒ slabo održavanje distributivne mreže i sistema ☒ dotrajalost
☐ ostalo(navedite)

Po vašem mišljenju, koja su najveća ograničenja u vezi vodosnabdevanja u bliskoj budućnosti (narednih 25 - 30 godina)?

(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- ☐ gubici ☐ količina ☐ kvalitet ☐ cena vode ☐ zakonodavni i strateški okvir
☐ nedostatak finansijskih sredstava ☒ infrastruktura ☐ Kapaciteti: ☐ institucionalni ☐ tehnički ☒ ljudski
☐ ostalo(navedite):

Molimo Vas rangirajte po značaju aktivnosti i korake koji mogu poboljšati vodosnabdevanje u odnosu na prethodno pomenute probleme i otvorena pitanja?

(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- ☐ Više informacija o uticaju klimatskih promena na vodne resurse i budući razvoj/planiranje;
☐ Bolje razumevanje neizvesnosti u vezi klimatskih promena i njihovog uticaja na mere adaptacije;
☒ Više informacija o budućoj raspoloživosti vodnih resursa i planiranju/razvoju;
☒ Poboľšano znanje o načinu korišćenju zemljišta i zonama sanitarne zaštite;
☐ Više informacija o sigurnosti vodosnabdevanja u budućnosti;
☐ Poboľšanje upravljanja prekograničnim / regionalnim sistemima vodosnabdevanja;
☐ Razvoj zajedničkog protokola za prekogranične / regionalne sisteme vodosnabdevanja;
☒ Implementacija prioritarnih mera radi efikasnijeg upravljanja vodnim resursima i sistemima za vodosnabdevanje;
☒ Smanjenje gubitaka i kontinuirani monitoring procurivanja;
☒ Primena savremenih metodologija za kontinuirani monitoring: curenja, kvaliteta vode, rada pumpi, itd;
☐ Razvoj web stranice koja će unaprediti saradnju, razmenu i transfer znanja, koji se odnose na probleme u vodosnabdevanju i upravljanju vodnim resursima;
☐ Ostalo(navedite):

Da li smatrate da je neke probleme/otvorena pitanja od opšteg interesa/ multidisciplinarna (cross-cutting) moguće rešiti:

(Molimo Vas rangirajte ih na sledeći način: **1 najveći**, **5 najmanji** rang, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- ☒ Strateški pristup koji će rešiti većinu problema / otvorenih pitanja
☐ Individualne strategije i smernice razvoja koje će se baviti većinom pitanja
☒ Unapređenje saradnje među sektorima
☒ Bolja saradnja institucija na lokalnom i nacionalnom nivou
☒ Više finansijskih sredstava
☒ Cena vode
☐ Ostalo (navedite):

Koja su 3 najznačajnija aktera / aktivnosti za poboljšanje upravljanja sistemima za vodosnabdevanje i vodnim resursima?

1. Opština PC
2. Regionalno TEO
3. Opcod/oblasti lokalne zajednice

Koje su aktivnosti koje Vaša institucija / organizacija može sprovesti radi poboljšanja upravljanja sistemima za vodosnabdevanje i vodnim resursima i doprineti njihovoj održivosti?

* Opcod/oblasti lokalne zajednice

Da li smatrate da samo aktivnosti i mere na državnom nivou doprinose poboljšanju vodosnabdevanja?

☐ Da ☒ Ne

Ukolko je odgovor "Ne" molimo Vas navedite ostale institucionalne nivoe od značaja:

= Regionalno TEO
= Opcod/oblasti lokalne zajednice

U kojoj meri ste upoznati sa ulogom i aktivnostima bilateralnih komisija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima?

☐ Potpuno ☒ Umereno ☐ Nedovoljno

U kojoj meri ste upoznati sa ulogom i aktivnostima lokalnih institucija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje?

☐ Potpuno ☐ Umereno ☒ Nedovoljno

Da li postoji zakonodavni okvir (sporazumi, ugovori, Memorandum o razumevanju, i drugo) koji su značajni za prekogranično / regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima u Srbiji sa kojima ste Vi upoznati?

☐ Da ☒ Ne

Ukolko je odgovor "Da", molimo Vas navedite naziv:

U kojoj meri ste upoznati sa problemima/otvorenim pitanjima i ograničenjima koja se odnose na prekogranične/regionalne vodne resurse?

☐ Potpuno ☐ Umereno ☒ Nedovoljno

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Stepen implementacije planova upravljanja prekograničnim slivovima:

☐ Završena ☐ U toku ☒ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Stepen implementacije planova upravljanja vodama na teritoriji Republike Srbije:

☐ Završena ☐ U toku ☒ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Koje su, po vašem mišljenju, najvažnije teme o kojima bi želeli da dobijete više informacija u vezano za prekogranično/regionalno upravljanje vodama i vodnim resursima?

- potrebu za uvođenjem zakona
- pitanje zaštite i održivosti resursa

Da li smatrate da je ovaj tip radionica/okruglih stolova koristan:

☒ Da ☐ Ne ☐ Nemam stav

Dodatni komentari:



Saradnja radi poboljšanja vodosnabdevanja
na području Jadranskog sliva



UPITNIK O UPRAVLJANJU PREKOGRANIČNIM / REGIONALNIM
SISTEMIMA ZA VODOSNABDEVANJE I VODNIM RESURSIMA

Aktivnosti koje se odnose na kapitalizaciju i održivost projekta su važna komponenta koja će poslužiti kao okvir za razmenu bitnih iskustva i znanja od značaja za prekogranične / regionalne sisteme vodosnabdevanja i vodne resurse. Predviđena je razmena informacija i podataka zainteresovanih strana, državnih institucija, naučno-istraživačkih organizacija, i drugo.

Informacije i odgovori prikupljeni tokom nacionalnih radionica, u svih 8 zemalja, predstavljaju veoma važne ulazne podatke i doprinose u velikoj meri uspešnoj realizaciji DRINKADRIA projekta.

Ime:	MUAY TUA
Prezime:	KOBAYEBU
Institucija/ Organizacija: (Ukoliko želite da ostanete anonimni, niste u obavezi da popunite ovaj deo)	J.P. Bogobog u Katanu bogu iu pozivaju
Delokrug rada Vaše institucije/ organizacije: <input checked="" type="checkbox"/> Javno komunalno preduzeće <input type="checkbox"/> Institucije: <input checked="" type="checkbox"/> lokalna <input type="checkbox"/> regionalna <input type="checkbox"/> nacionalna <input type="checkbox"/> Istraživačka organizacija <input type="checkbox"/> Udruženje vodovoda <input type="checkbox"/> ostalo (molimo naznačite):	
Vaše radne aktivnosti se uglavnom odnose na: <input checked="" type="checkbox"/> vodosnabdevanje <input type="checkbox"/> zaštitu voda <input type="checkbox"/> obrazovanje/istraživanje <input type="checkbox"/> međunarodna saradnja <input type="checkbox"/> finansije/zakonodavstvo <input type="checkbox"/> ostalo, navedite:	
Vaše aktivnosti se, u prostornom smislu, najviše odnose na sledeći nivo: (Molimo Vas da koristite procentualnu procenu tako da ukupan zbir bude 100%) Primer : lokalni nivo -55%, nacionalni -25%, ostalo - 20% lokalni 100%, regionalni %, nacionalni %, međunarodni %, ostalo(molimo Vas navedite) : %, %	
Koji su trenutno najveći problemi i otvorena pitanja vezano za upravljanje sistemima za vodosnabdevanje? (Molimo Vas rangirajte ih na sledeći način: 1 najveći, 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema/otvorena pitanja) <input checked="" type="checkbox"/> Gubici <input checked="" type="checkbox"/> 5 Količina <input checked="" type="checkbox"/> 5 Kvalitet <input type="checkbox"/> Cena vode <input checked="" type="checkbox"/> Zakonodavni/ strateški okvir <input checked="" type="checkbox"/> Nedostatak finansijskih sredstava <input checked="" type="checkbox"/> Infrastruktura <input type="checkbox"/> Kapaciteti : <input checked="" type="checkbox"/> institucionalni <input type="checkbox"/> tehnički <input checked="" type="checkbox"/> ljudski <input type="checkbox"/> Klimatske promene <input type="checkbox"/> Nedovoljna saradnja <input type="checkbox"/> ostalo(navedite):	

Molimo Vas rangirajte sledeće koje detaljnije opisuju prethodno navedene probleme/otvorena pitanja :
(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

GUBICI

- ☒ neovlašćena potrošnja ☒ greške u merenju ☒ procurivanje u distributivnoj mreži
☒ curenje u vodovodnim objektima ☐ ostalo(navedite)

KOLIČINA

- ☒ porast potrošnje ☒ sezonske varijacije 2 ☒ zapremina rezervoarskog prostora
☒ promene namene i koršćenja zemljišta ☐ velika potrošnja ostalih sektora (poljoprivreda, industrija, itd)
☒ klimatske promene ☐ ostalo(navedite)

KVALITET

- ☒ tačkasti izvori zagađenja ☒ rasuti izvori zagađenja ☒ problemi vezani za izvorišta
☒ promene namene i koršćenja zemljišta ☒ sezonske varijacije ☐ klimatske promene
☐ ostalo(navedite)

ORGANIČENJA U VODOSNABDEVANJU

- ☒ neadekvatna mreža ☒ kapacitet crpnih stanica ☒ nedovoljno rezervoara
☒ slabo održavanje distributivne mreže i sistema ☒ dotrajalost
☒ ostalo(navedite)

Po vašem mišljenju, koja su najveća ograničenja u vezi vodosnabdevanja u bliskoj budućnosti (narednih 25 - 30 godina)?

(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- ☒ gubici ☒ količina ☐ kvalitet ☒ cena vode ☐ zakonodavni i strateški okvir
☒ nedostatak finansijskih sredstava ☒ infrastruktura ☐ Kapaciteti: ☒ institucionalni ☒ tehnički ☒ ljudski
☐ ostalo(navedite):

Molimo Vas rangirajte po značaju aktivnosti i korake koji mogu poboljšati vodosnabdevanje u odnosu na prethodno pomenute probleme i otvorena pitanja?

(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- ☒ Više informacija o uticaju klimatskih promena na vodne resurse i budući razvoj/planiranje;
☐ Bolje razumevanje neizvesnosti u vezi klimatskih promena i njihovog uticaja na mere adaptacije;
☒ Više informacija o budućoj raspoloživosti vodnih resursa i planiranju/razvoju;
☐ Poboljšano znanje o načinu korišćenju zemljišta i zonama sanitarne zaštite;
☐ Više informacija o sigurnosti vodosnabdevanja u budućnosti;
☒ Poboljšanje upravljanja prekograničnim / regionalnim sistemima vodosnabdevanja;
☐ Razvoj zajedničkog protokola za prekogranične / regionalne sisteme vodosnabdevanja;
☐ Implementacija prioriternih mera radi efikasnijeg upravljanja vodnim resursima i sistemima za vodosnabdevanje;
☐ Smanjenje gubitaka i kontinuirani monitoring procurivanja;
☒ Primena savremenih metodologija za kontinuirani monitoring: curenja, kvaliteta vode, rada pumpi, itd;
☒ Razvoj web stranice koja će unaprediti saradnju, razmenu i transfer znanja, koji se odnose na probleme u vodosnabdevanju i upravljanju vodnim resursima;
☐ Ostalo(navedite):

Da li smatrate da je neke probleme/otvorena pitanja od opšteg interesa/ multidisciplinarna (*cross-cutting*) moguće rešiti:

(Molimo Vas rangirajte ih na sledeći način: **1 najveći** , **5 najmanji** rang, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- ☒ Strateški pristup koji će rešiti većinu problema / otvorenih pitanja
- ☐ Individualne strategije i smernice razvoja koje će se baviti većinom pitanja
- ☒ Unapređenje saradnje među sektorima
- ☐ Bolja saradnja institucija na lokalnom i nacionalnom nivou
- ☒ Više finansijskih sredstava
- ☒ Cena vode
- ☒ Ostalo (navedite):

Koja su 3 najznačajnija aktera / aktivnosti za poboljšanje upravljanja sistemima za vodosnabdevanje i vodnim resursima?

Koje su aktivnosti koje Vaša institucija / organizacija može sprovesti radi poboljšanja upravljanja sistemima za vodosnabdevanje i vodnim resursima i doprineti njihovoj održivosti?

Da li smatrate da samo aktivnosti i mere na državnom nivou doprinose poboljšanju vodosnabdevanja?

☐ Da ☒ Ne

Ukoliko je odgovor "Ne", molimo Vas navedite ostale institucionalne nivoe od značaja:

U kojoj meri ste upoznati sa ulogom i aktivnostima bilateralnih komisija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima?

☐ Potpuno ☐ Umereno ☒ Nedovoljno

U kojoj meri ste upoznati sa ulogom i aktivnostima lokalnih institucija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje?

☐ Potpuno ☐ Umereno ☒ Nedovoljno

Da li postoji zakonodavni okvir (sporazumi, ugovori, Memorandum o razumevanju, i drugo) koji su značajni za prekogranično / regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima u Srbiji sa kojima ste Vi upoznati?

☐ Da ☒ Ne

Ukoliko je odgovor "Da", molimo Vas navedite naziv:

U kojoj meri ste upoznati sa problemima/otvorenim pitanjima i ograničenjima koja se odnose na prekogranične/regionalne vodne resurse?

☐ Potpuno ☐ Umereno ☒ Nedovoljno

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Stepen implementacije planova upravljanja prekograničnim slivovima:

☐ Završena ☐ U toku ☒ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Stepen implementacije planova upravljanja vodama na teritoriji Republike Srbije:

☐ Završena ☒ U toku ☐ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Koje su, po vašem mišljenju, najvažnije teme o kojima bi želeli da dobijete više informacija u vezano za prekogranično/regionalno upravljanje vodama i vodnim resursima ?

Da li smatrate da je ovaj tip radionica/okruglih stolova koristan:

☒ Da ☐ Ne ☐ Nemam stav

Dodatni komentari:



**Saradnja radi poboljšanja vodosnabdevanja
na području Jadranskog sliva**



**UPITNIK O UPRAVLJANJU PREKOGRANIČNIM / REGIONALNIM
SISTEMIMA ZA VODOSNABDEVANJE I VODNIM RESURSIMA**

Aktivnosti koje se odnose na kapitalizaciju i održivost projekta su važna komponenta koja će poslužiti kao okvir za razmenu bitnih iskustva i znanja od značaja za prekogranične / regionalne sisteme vodosnabdevanja i vodne resurse. Predviđena je razmena informacija i podataka zainteresovanih strana, državnih institucija, naučno-istraživačkih organizacija, i drugo.

Informacije i odgovori prikupljeni tokom nacionalnih radionica, u svih 8 zemalja, predstavljaju veoma važne ulazne podatke i doprinose u velikoj meri uspešnoj realizaciji DRINKADRIA projekta.

Ime:	SLAVICA
Prezime:	ARALOVIC
Institucija/ Organizacija: (Ukoliko želite da ostanete anonimni, niste u obavezi da popunite ovaj deo)	Javno preduzeće "Prav" Skoplje (regionalni vodosistem)
Delokrug rada Vaše institucije/ organizacije:	
<input type="checkbox"/> Javno komunalno preduzeće <input type="checkbox"/> Institucije: <input type="checkbox"/> lokalna <input checked="" type="checkbox"/> regionalna <input type="checkbox"/> nacionalna <input type="checkbox"/> Istraživačka organizacija <input type="checkbox"/> Udruženje vodovoda <input type="checkbox"/> ostalo (molimo naznačite):	
Vaše radne aktivnosti se uglavnom odnose na:	
<input checked="" type="checkbox"/> vodosnabdevanje <input checked="" type="checkbox"/> zaštitu voda <input type="checkbox"/> obrazovanje/istraživanje <input type="checkbox"/> međunarodna saradnja <input type="checkbox"/> finansije/zakonodavstvo <input type="checkbox"/> ostalo, navedite:	
Vaše aktivnosti se, u prostornom smislu, najviše odnose na sledeći nivo: (Molimo Vas da koristite procentualnu procenu tako da ukupan zbir bude 100%) Primer : lokalni nivo -55%, nacionalni -25%, ostalo - 20%	
lokalni _ %, regionalni 100%, nacionalni _ %, međunarodni _ %, ostalo(molimo Vas navedite) : _____, %	
Koји su trenutno najveći problemi i otvorena pitanja vezano za upravljanje sistemima za vodosnabdevanje? (Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema/otvorena pitanja)	
<input type="checkbox"/> Gubici 1 <input checked="" type="checkbox"/> Količina <input type="checkbox"/> Kvalitet 3 <input checked="" type="checkbox"/> Cena vode	
5 <input checked="" type="checkbox"/> Zakonodavni/ strateški okvir 2 <input checked="" type="checkbox"/> Nedostatak finansijskih sredstava <input type="checkbox"/> Infrastruktura	
3 <input checked="" type="checkbox"/> Kapaciteti : <input checked="" type="checkbox"/> institucionalni <input type="checkbox"/> tehnički <input type="checkbox"/> ljudski	
4 <input checked="" type="checkbox"/> Klimatske promene <input type="checkbox"/> Nedovoljna saradnja	
<input type="checkbox"/> ostalo(navedite):	

Molimo Vas rangirajte sledeće koje detaljnije opisuju prethodno navedene probleme/otvorena pitanja :
(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

GUBICI

- ☐ neovlašćena potrošnja **5** ☒ greške u merenju **4** ☒ procurivanje u distributivnoj mreži
☒ curenje u vodovodnim objektima ☐ ostalo(navedite)

KOLIČINA

- ☐ porast potrošnje **3** ☒ sezonske varijacije ☐ zapremina rezervoarskog prostora
☐ promene namene i korišćenja zemljišta ☐ velika potrošnja ostalih sektora (poljoprivreda, industrija, itd)
☒ klimatske promene **4** ☒ ostalo(navedite) - *nedovoljna kapacitet izvorišta - nedostatak ogranka ARJE - profil Sanki*

- 2** *izvorišta - nedostatak ogranka ARJE - profil Sanki*
2 *formiranja akumulacije* **4** *ARJE - profil Sanki*
KVALITET
☐ tačkasti izvori zagađenja ☐ rasuti izvori zagađenja **5** ☒ problemi vezani za izvorišta
☐ promene namene i korišćenja zemljišta **1** ☒ sezonske varijacije **2** ☒ klimatske promene
☐ ostalo(navedite)

ORGANIČENJA U VODOSNABDEVANJU

- ☐ neadekvatna mreža ☐ kapacitet crpnih stanica ☐ nedovoljno rezervoara
☐ slabo održavanje distributivne mreže i sistema ☐ dotrajnost
☒ ostalo(navedite) - *nedostatak održavanja vode u ovom periodu (nedostatak akumulacije)*

Po vašem mišljenju, koja su najveća ograničenja u vezi vodosnabdevanja u bliskoj budućnosti (narednih 25 - 30 godina)?

(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- 2** ☐ gubici **1** ☒ količina ☐ kvalitet **3** ☒ cena vode **5** ☒ zakonodavni i strateški okvir
☒ nedostatak finansijskih sredstava ☐ infrastruktura ☒ Kapaciteti **2** ☒ institucionalni **2** ☒ tehnički **2** ☒ ljudski
☐ ostalo(navedite):

Molimo Vas rangirajte po značaju aktivnosti i korake koji mogu poboljšati vodosnabdevanje u odnosu na prethodno pomenute probleme i otvorena pitanja?

(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- 2** ☒ Više informacija o uticaju klimatskih promena na vodne resurse i budući razvoj/planiranje;
2 ☒ Bolje razumevanje neizvesnosti u vezi klimatskih promena i njihovog uticaja na mere adaptacije;
2 ☒ Više informacija o budućoj raspoloživosti vodnih resursa i planiranju/razvoju;
2 ☒ Poboljšano znanje o načinu korišćenju zemljišta i zonama sanitarnе zaštite;
2 ☒ Više informacija o sigurnosti vodosnabdevanja u budućnosti;
2 ☒ Poboljšanje upravljanja prekograničnim / regionalnim sistemima vodosnabdevanja;
☐ Razvoj zajedničkog protokola za prekogranične / regionalne sisteme vodosnabdevanja;
1 ☒ Implementacija prioritarnih mera radi efikasnijeg upravljanja vodnim resursima i sistemima za vodosnabdevanje;
☐ Smanjenje gubitaka i kontinuirani monitoring procurivanja;
2 ☒ Primena savremenih metodologija za kontinuirani monitoring: curenja, kvaliteta vode, rada pumpi, itd;
☐ Razvoj web stranice koja će unaprediti saradnju, razmenu i transfer znanja, koji se odnose na probleme u vodosnabdevanju i upravljanju vodnim resursima;
☐ Ostalo(navedite):

Da li smatrate da je neke probleme/otvorena pitanja od opšteg interesa/ multidisciplinarna (cross-cutting) moguće rešiti:

(Molimo Vas rangirajte ih na sledeći način: **1 najveći**, **5 najmanji** rang, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- 1 ☒ Strateški pristup koji će rešiti većinu problema / otvorenih pitanja
- 2 ☐ Individualne strategije i smernice razvoja koje će se baviti većinom pitanja
- 3 ☐ Unapređenje saradnje među sektorima
- 4 ☒ Bolja saradnja institucija na lokalnom i nacionalnom nivou
- 5 ☒ Više finansijskih sredstava
- 6 ☒ Cena vode
- 7 ☐ Ostalo (navedite):

Koja su 3 najznačajnija aktera / aktivnosti za poboljšanje upravljanja sistemima za vodosnabdevanje i vodnim resursima?

- dovoljna količina vode (zakusene, prečišćene)
- kvaliteta vode
- stanje infrastrukturne mreže, objekata i opreme

Koje su aktivnosti koje Vaša institucija / organizacija može sprovesti radi poboljšanja upravljanja sistemima za vodosnabdevanje i vodnim resursima i doprineti njihovoj održivosti?

1. Nostalgic investicije - izgradnja brane "Mile - prof. Svrac"
2. Kontrola kvaliteta vode u distribuciji, prečišćavanje
3. tekuce i investicione odlozuvanje objekata, mreže i opreme

Da li smatrate da samo aktivnosti i mere na državnom nivou doprinose poboljšanju vodosnabdevanja?

☐ Da ☒ Ne

Ukoliko je odgovor "Ne", molimo Vas navedite ostale institucionalne nivoe od značaja:

- spresnut rad regionalnih sistema / lokalnih kom. preduzeća (uključujući lok. samoupravu) koordinaciju svih bunara

U kojoj meri ste upoznati sa ulogom i aktivnostima bilateralnih komisija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima?

☐ Potpuno ☐ Umereno ☒ Nedovoljno

U kojoj meri ste upoznati sa ulogom i aktivnostima lokalnih institucija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje?

☐ Potpuno ☐ Umereno ☒ Nedovoljno

Da li postoji zakonodavni okvir (sporazumi, ugovori, Memorandum o razumevanju, i drugo) koji su značajni za prekogranično / regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima u Srbiji sa kojima ste Vi upoznati?

☒ Da ☐ Ne

Ukoliko je odgovor "Da", molimo Vas navedite naziv:

Memorandum o razumevanju, izgradnje brane i akum. "Mile - prof. Svrac" potpisan od strane Minis. polj. stan. i vodop. RS - Rep. dim. av. vopu, gradnja Cetine, opština Anđel, Potegil, učionik i G. Milica

U kojoj meri ste upoznati sa problemima/otvorenim pitanjima i ograničenjima koja se odnose na prekogranične/regionalne vodne resurse?

☐ Potpuno ☒ Umereno ☐ Nedovoljno

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Stepen implementacije planova upravljanja prekograničnim slivovima:

☐ Završena ☐ U toku ☒ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Stepen implementacije planova upravljanja vodama na teritoriji Republike Srbije:

☐ Završena ☒ U toku ☐ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

ni u okviru odredb, teh. dokum. grad. dozv. izvan izvođen.

Koje su, po vašem mišljenju, najvažnije teme o kojima bi želeli da dobijete više informacija u vezano za prekogranično/regionalno upravljanje vodama i vodnim resursima?

*→ finansijski aspekt
→ obezbeđenje svih podataka, sigurnosti i implementacija*

Da li smatrate da je ovaj tip radionica/okruglih stolova koristan:

☒ Da ☐ Ne ☐ Nemam stav

Dodatni komentari:



**Saradnja radi poboljšanja vodosnabdevanja
na području Jadranskog sliva**



**UPITNIK O UPRAVLJANJU PREKOGRANIČNIM / REGIONALNIM
SISTEMIMA ZA VODOSNABDEVANJE I VODNIM RESURSIMA**

Aktivnosti koje se odnose na kapitalizaciju i održivost projekta su važna komponenta koja će poslužiti kao okvir za razmenu bitnih iskustva i znanja od značaja za prekogranične / regionalne sisteme vodosnabdevanja i vodne resurse. Predviđena je razmena informacija i podataka zainteresovanih strana, državnih institucija, naučno-istraživačkih organizacija, i drugo.

Informacije i odgovori prikupljeni tokom nacionalnih radionica, u svih 8 zemalja, predstavljaju veoma važne ulazne podatke i doprinose u velikoj meri uspešnoj realizaciji DRINKADRIA projekta.

Ime:	
Prezime:	
Institucija/ Organizacija:	
(Ukoliko želite da ostanete anonimni, niste u obavezi da popunite ovaj deo)	
Delokrug rada Vaše institucije/ organizacije:	
<input type="checkbox"/> Javno komunalno preduzeće <input type="checkbox"/> Institucije: <input type="checkbox"/> lokalna <input type="checkbox"/> regionalna <input type="checkbox"/> nacionalna <input type="checkbox"/> Istraživačka organizacija <input type="checkbox"/> Udruženje vodovoda <input type="checkbox"/> ostalo (molimo naznačite):	
Vaše radne aktivnosti se uglavnom odnose na:	
<input type="checkbox"/> vodosnabdevanje <input checked="" type="checkbox"/> zaštitu voda <input type="checkbox"/> obrazovanje/istraživanje <input type="checkbox"/> međunarodna saradnja <input type="checkbox"/> finansije/zakonodavstvo <input type="checkbox"/> ostalo, navedite:	
Vaše aktivnosti se, u prostornom smislu, najviše odnose na sledeći nivo: (Molimo Vas da koristite procentualnu procenu tako da ukupan zbir bude 100%) Primer : lokalni nivo -55%, nacionalni -25%, ostalo - 20%	
lokalni __ %, regionalni 50 %, nacionalni 10 %, međunarodni 4 %, ostalo(molimo Vas navedite) : _____ , %	
Koji su trenutno najveći problemi i otvorena pitanja vezano za upravljanje sistemima za vodosnabdevanje? (Molimo Vas rangirajte ih na sledeći način: 1 najveći , ... 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema/otvorena pitanja)	
<input checked="" type="checkbox"/> Gubici <input checked="" type="checkbox"/> Količina <input checked="" type="checkbox"/> Kvalitet (1) <input checked="" type="checkbox"/> Cena vode	
<input checked="" type="checkbox"/> Zakonodavni/ strateški okvir <input checked="" type="checkbox"/> Nedostatak finansijskih sredstava <input checked="" type="checkbox"/> Infrastruktura	
<input checked="" type="checkbox"/> Kapaciteti : <input checked="" type="checkbox"/> institucionalni <input checked="" type="checkbox"/> tehnički <input checked="" type="checkbox"/> ljudski	
<input checked="" type="checkbox"/> Klimatske promene <input checked="" type="checkbox"/> Nedovoljna saradnja	
<input type="checkbox"/> ostalo(navedite):	

Molimo Vas rangirajte sledeće koje detaljnije opisuju prethodno navedene probleme/otvorena pitanja :
(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

GUBICI

- ☒ neovlašćena potrošnja ☒ greške u merenju ☒ procurivanje u distributivnoj mreži
☒ curenje u vodovodnim objektima ☐ ostalo(navedite)

KOLIČINA

- ☒ porast potrošnje ☒ sezonske varijacije ☒ zapremina rezervoarskog prostora
☒ promene namene i koršćenja zemljišta ☒ velika potrošnja ostalih sektora (poljoprivreda, industrija, itd)
☒ klimatske promene ☐ ostalo(navedite)

KVALITET

- ☒ tačkasti izvori zagađenja ☒ rasuti izvori zagađenja ☒ problemi vezani za izvorišta
☒ promene namene i koršćenja zemljišta ☒ sezonske varijacije ☒ klimatske promene
☐ ostalo(navedite)

ORGANIČENJA U VODOSNABDEVANJU

- ☒ neadekvatna mreža ☒ kapacitet crpnih stanica ☒ nedovoljno rezervoara
☒ slabo održavanje distributivne mreže i sistema ☒ dotrajalost
☐ ostalo(navedite)

Po vašem mišljenju, koja su najveća ograničenja u vezi vodosnabdevanja u bliskoj budućnosti (narednih 25 - 30 godina)?

(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- ☒ gubici ☒ količina ☒ kvalitet ☒ cena vode ☒ zakonodavni i strateški okvir
☒ nedostatak finansijskih sredstava ☒ infrastruktura ☒ Kapaciteti: ☐ institucionalni ☐ tehnički ☐ ljudski
☐ ostalo(navedite):

Molimo Vas rangirajte po značaju aktivnosti i korake koji mogu poboljšati vodosnabdevanje u odnosu na prethodno pomenute probleme i otvorena pitanja?

(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- ☒ Više informacija o uticaju klimatskih promena na vodne resurse i budući razvoj/planiranje;
☒ Bolje razumevanje neizvesnosti u vezi klimatskih promena i njihovog uticaja na mere adaptacije;
☒ Više informacija o budućoj raspoloživosti vodnih resursa i planiranju/razvoju;
☒ Poboljšano znanje o načinu korišćenju zemljišta i zonama sanitarne zaštite;
☒ Više informacija o sigurnosti vodosnabdevanja u budućnosti;
☒ Poboljšanje upravljanja prekograničnim / regionalnim sistemima vodosnabdevanja;
☒ Razvoj zajedničkog protokola za prekogranične / regionalne sisteme vodosnabdevanja;
☒ Implementacija prioriternih mera radi efikasnijeg upravljanja vodnim resursima i sistemima za vodosnabdevanje;
☒ Smanjenje gubitaka i kontinuirani monitoring procurivanja;
☒ Primena savremenih metodologija za kontinuirani monitoring: curenja, kvaliteta vode, rada pumpi, itd;
☐ Razvoj web stranice koja će unaprediti saradnju, razmenu i transfer znanja, koji se odnose na probleme u vodosnabdevanju i upravljanju vodnim resursima;
☐ Ostalo(navedite):

Da li smatrate da je neke probleme/otvorena pitanja od opšteg interesa/ multidisciplinarna (*cross-cutting*) moguće rešiti:

(Molimo Vas rangirajte ih na sledeći način: **1 najveći** , **5 najmanji** rang, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- ☐ Strateški pristup koji će rešiti većinu problema / otvorenih pitanja
- ☐ Individualne strategije i smernice razvoja koje će se baviti većinom pitanja
- ☐ Unapređenje saradnje među sektorima
- ☐ Bolja saradnja institucija na lokalnom i nacionalnom nivou
- ☐ Više finansijskih sredstava
- ☐ Cena vode
- ☐ Ostalo (navedite):

Koja su 3 najznačajnija aktera / aktivnosti za poboljšanje upravljanja sistemima za vodosnabdevanje i vodnim resursima?

Koje su aktivnosti koje Vaša institucija / organizacija može sprovesti radi poboljšanja upravljanja sistemima za vodosnabdevanje i vodnim resursima i doprineti njihovoj održivosti?

Da li smatrate da samo aktivnosti i mere na državnom nivou doprinose poboljšanju vodosnabdevanja?

☐ Da ☐ Ne

Ukoliko je odgovor "Ne", molimo Vas navedite ostale institucionalne nivoe od značaja:

U kojoj meri ste upoznati sa ulogom i aktivnostima bilateralnih komisija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima?

☐ Potpuno ☐ Umereno ☒ Nedovoljno

U kojoj meri ste upoznati sa ulogom i aktivnostima lokalnih institucija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima?

☐ Potpuno ☒ Umereno ☐ Nedovoljno

Da li postoji zakonodavni okvir (sporazumi, ugovori, Memorandum o razumevanju, i drugo) koji su značajni za prekogranično / regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima u Srbiji sa kojima ste Vi upoznati?

☐ Da ☒ Ne

Ukoliko je odgovor "Da", molimo Vas navedite naziv:

U kojoj meri ste upoznati sa problemima/otvorenim pitanjima i ograničenjima koja se odnose na prekogranične/regionalne vodne resurse?

☐ Potpuno ☒ Umereno ☐ Nedovoljno

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Stepen implementacije planova upravljanja prekograničnim slivovima:

☐ Završena ☒ U toku ☐ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Stepen implementacije planova upravljanja vodama na teritoriji Republike Srbije:

☐ Završena ☐ U toku ☐ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Koje su, po vašem mišljenju, najvažnije teme o kojima bi želeli da dobijete više informacija u vezano za prekogranično/regionalno upravljanje vodama i vodnim resursima ?

Da li smatrate da je ovaj tip radionica/okruglih stolova koristan:

☒ Da ☐ Ne ☐ Nemam stav

Dodatni komentari:



**Saradnja radi poboljšanja vodosnabdevanja
na području Jadranskog sliva**



**UPITNIK O UPRAVLJANJU PREKOGRANIČNIM / REGIONALNIM
SISTEMIMA ZA VODOSNABDEVANJE I VODNIM RESURSIMA**

Aktivnosti koje se odnose na kapitalizaciju i održivost projekta su važna komponenta koja će poslužiti kao okvir za razmenu bitnih iskustva i znanja od značaja za prekogranične / regionalne sisteme vodosnabdevanja i vodne resurse. Predviđena je razmena informacija i podataka zainteresovanih strana, državnih institucija, naučno-istraživačkih organizacija, i drugo.

Informacije i odgovori prikupljeni tokom nacionalnih radionica, u svih 8 zemalja, predstavljaju veoma važne ulazne podatke i doprinose u velikoj meri uspešnoj realizaciji DRINKADRIA projekta.

Ime:	MILOS
Prezime:	PERIC
Institucija/ Organizacija: (Ukoliko želite da ostanete anonimni, niste u obavezi da popunite ovaj deo)	JKP VODOVOD I KANALIZACIJA, POŽAREVAC
Delokrug rada Vaše institucije/ organizacije: <input checked="" type="checkbox"/> Javno komunalno preduzeće <input type="checkbox"/> Institucije: <input type="checkbox"/> lokalna <input type="checkbox"/> regionalna <input type="checkbox"/> nacionalna <input type="checkbox"/> Istraživačka organizacija <input type="checkbox"/> Udruženje vodovoda <input type="checkbox"/> ostalo (molimo naznačite):	
Vaše radne aktivnosti se uglavnom odnose na: <input checked="" type="checkbox"/> vodosnabdevanje <input type="checkbox"/> zaštitu voda <input type="checkbox"/> obrazovanje/istraživanje <input type="checkbox"/> međunarodna saradnja <input type="checkbox"/> finansije/zakonodavstvo <input type="checkbox"/> ostalo, navedite:	
Vaše aktivnosti se, u prostornom smislu, najviše odnose na sledeći nivo: <i>(Molimo Vas da koristite procentualnu procenu tako da ukupan zbir bude 100%)</i> Primer : lokalni nivo -55%, nacionalni -25%, ostalo - 20% lokalni <u>100</u> %, regionalni <u> </u> %, nacionalni <u> </u> %, međunarodni <u> </u> %, ostalo(molimo Vas navedite): <u> </u> %,	
Koji su trenutno najveći problemi i otvorena pitanja vezano za upravljanje sistemima za vodosnabdevanje? <i>(Molimo Vas rangirajte ih na sledeći način: 1 najveći, 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema/otvorena pitanja)</i> <div style="display: flex; justify-content: space-between;"> <u>2</u> Gubici <u>4</u> Količina <u>4</u> Kvalitet <u>2</u> Cena vode </div> <div style="display: flex; justify-content: space-between;"> <input type="checkbox"/> Zakonodavni/ strateški okvir <input checked="" type="checkbox"/> Nedostatak finansijskih sredstava <u>3</u> Infrastruktura </div> <div style="display: flex; justify-content: space-between;"> <u>3</u> Kapaciteti: <input type="checkbox"/> institucionalni <input type="checkbox"/> tehnički <input type="checkbox"/> ljudski </div> <div style="display: flex; justify-content: space-between;"> <u>5</u> Klimatske promene <u>1</u> Nedovoljna saradnja </div> <input type="checkbox"/> ostalo(navedite):	

Molimo Vas rangirajte sledeće koje detaljnije opisuju prethodno navedene probleme/otvorena pitanja :
(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

GUBICI

- ☒ 1 neovlašćena potrošnja ☒ 2 greške u merenju ☒ 3 procurivanje u distributivnoj mreži
☒ 4 curenje u vodovodnim objektima ☐ ostalo(navedite)

KOLIČINA

- ☒ 2 porast potrošnje ☒ 3 sezonske varijacije ☒ 3 zapremina rezervoarskog prostora
☒ 5 promene namene i koršćenja zemljišta ☒ 4 velika potrošnja ostalih sektora (poljoprivreda, industrija, itd)
☒ 5 klimatske promene ☐ ostalo(navedite)

KVALITET

- ☒ 1 tačkasti izvori zagađenja ☒ 3 rasuti izvori zagađenja ☒ 4 problemi vezani za izvorišta
☒ 5 promene namene i koršćenja zemljišta ☒ 2 sezonske varijacije ☒ 4 klimatske promene
☐ ostalo(navedite)

ORGANIČENJA U VODOSNABDEVANJU

- ☒ 1 neadekvatna mreža ☒ 3 kapacitet crpnih stanica ☒ 4 nedovoljno rezervoara
☒ 5 slabo održavanje distributivne mreže i sistema ☒ 2 dotrajalost
☐ ostalo(navedite)

Po vašem mišljenju, koja su najveća ograničenja u vezi vodosnabdevanja u bliskoj budućnosti (narednih 25 - 30 godina)?

(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- ☒ 3 gubici ☒ 4 količina ☒ 1 kvalitet ☒ 2 cena vode ☒ 3 zakonodavni i strateški okvir
☒ 2 nedostatak finansijskih sredstava ☒ 3 infrastruktura ☐ Kapaciteti: ☐ institucionalni ☒ tehnički ☐ ljudski
☐ ostalo(navedite):

Molimo Vas rangirajte po značaju aktivnosti i korake koji mogu poboljšati vodosnabdevanje u odnosu na prethodno pomenute probleme i otvorena pitanja?

(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- ☒ 5 Više informacija o uticaju klimatskih promena na vodne resurse i budući razvoj/planiranje;
☒ 5 Bolje razumevanje neizvesnosti u vezi klimatskih promena i njihovog uticaja na mere adaptacije;
☒ 5 Više informacija o budućoj raspoloživosti vodnih resursa i planiranju/razvoju;
☒ 4 Poboľšano znanje o načinu korišćenju zemljišta i zonama sanitarne zaštite;
☒ 5 Više informacija o sigurnosti vodosnabdevanja u budućnosti;
☒ 4 Poboľšanje upravljanja prekograničnim / regionalnim sistemima vodosnabdevanja;
☒ 4 Razvoj zajedničkog protokola za prekogranične / regionalne sisteme vodosnabdevanja;
☒ 4 Implementacija prioriternih mera radi efikasnijeg upravljanja vodnim resursima i sistemima za vodosnabdevanje;
☒ 4 Smanjenje gubitaka i kontinuirani monitoring procurivanja;
☒ 4 Primena savremenih metodologija za kontinuirani monitoring: curenja, kvaliteta vode, rada pumpi, itd;
☐ Razvoj web stranice koja će unaprediti saradnju, razmenu i transfer znanja, koji se odnose na probleme u vodosnabdevanju i upravljanju vodnim resursima;
☐ Ostalo(navedite):

Da li smatrate da je neke probleme/otvorena pitanja od opšteg interesa/ multidisciplinarna (cross-cutting) moguće rešiti:

(Molimo Vas rangirajte ih na sledeći način: **1 najveći**, **5 najmanji** rang, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- ☒ 1 Strateški pristup koji će rešiti većinu problema / otvorenih pitanja
☒ 2 Individualne strategije i smernice razvoja koje će se baviti većinom pitanja
☒ 3 Unapređenje saradnje među sektorima
☒ 4 Bolja saradnja institucija na lokalnom i nacionalnom nivou
☒ 5 Više finansijskih sredstava
☐ 6 Cena vode
☐ 7 Ostalo (navedite):

Koja su 3 najznačajnija aktera / aktivnosti za poboljšanje upravljanja sistemima za vodosnabdevanje i vodnim resursima?

SMANJENJE GUBITAKA STABILAN SISTEM VODOSNABDEVANJA (IZGRADNJA FABRIKE VODE), RAZVOJ REGIONALNOG VODOVODA

Koje su aktivnosti koje Vaša institucija / organizacija može sprovesti radi poboljšanja upravljanja sistemima za vodosnabdevanje i vodnim resursima i doprineti njihovoj održivosti?

VRABEN KONTINUIRANI MONITORING PROCURIVANJA (SCADA, GIS, MATEMATIČKI MODEL)
VRABENI IDEJLI PROJEKAT FASRIKE VODE

Da li smatrate da samo aktivnosti i mere na državnom nivou doprinose poboljšanju vodosnabdevanja?

☒ Da ☐ Ne

Ukolko je odgovor "Ne", molimo Vas navedite ostale institucionalne nivoe od značaja:

U kojoj meri ste upoznati sa ulogom i aktivnostima bilateralnih komisija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima?

☐ Potpuno ☒ Umereno ☐ Nedovoljno

U kojoj meri ste upoznati sa ulogom i aktivnostima lokalnih institucija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje?

☐ Potpuno ☒ Umereno ☐ Nedovoljno

Da li postoji zakonodavni okvir (sporazumi, ugovori, Memorandum o razumevanju, i drugo) koji su značajni za prekogranično / regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima u Srbiji sa kojima ste Vi upoznati?

☐ Da ☒ Ne

Ukolko je odgovor "Da", molimo Vas navedite naziv:

U kojoj meri ste upoznati sa problemima/otvorenim pitanjima i ograničenjima koja se odnose na prekogranične/regionalne vodne resurse?

☐ Potpuno ☒ Umereno ☐ Nedovoljno

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Stepen implementacije planova upravljanja prekograničnim slivovima:

☐ Završena ☒ U toku ☐ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Stepen implementacije planova upravljanja vodama na teritoriji Republike Srbije:

☐ Završena ☒ U toku ☐ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Koje su, po vašem mišljenju, najvažnije teme o kojima bi želeli da dobijete više informacija u vezano za prekogranično/regionalno upravljanje vodama i vodnim resursima ?

Da li smatrate da je ovaj tip radionica/okruglih stolova koristan:

☒ Da ☐ Ne ☐ Nemam stav

Dodatni komentari:



**Saradnja radi poboljšanja vodosnabdevanja
na području Jadranskog sliva**



**UPITNIK O UPRAVLJANJU PREKOGRANIČNIM / REGIONALNIM
SISTEMIMA ZA VODOSNABDEVANJE I VODNIM RESURSIMA**

Aktivnosti koje se odnose na kapitalizaciju i održivost projekta su važna komponenta koja će poslužiti kao okvir za razmenu bitnih iskustva i znanja od značaja za prekogranične / regionalne sisteme vodosnabdevanja i vodne resurse. Predviđena je razmena informacija i podataka zainteresovanih strana, državnih institucija, naučno-istraživačkih organizacija, i drugo.

Informacije i odgovori prikupljeni tokom nacionalnih radionica, u svih 8 zemalja, predstavljaju veoma važne ulazne podatke i doprinose u velikoj meri uspešnoj realizaciji DRINKADRIA projekta.

Ime:	RADOŠE
Prezime:	LUKIĆ
Institucija/ Organizacija: (Ukoliko želite da ostanete anonimni, niste u obavezi da popunite ovaj deo)	JKP-VODOVOD-KRUŠEVAC

Delokrug rada Vaše institucije/ organizacije:

☒ Javno komunalno preduzeće ☐ Institucije: ☐ lokalna ☐ regionalna ☐ nacionalna
☐ Istraživačka organizacija ☐ Udruženje vodovoda ☐ ostalo (molimo naznačite):

Vaše radne aktivnosti se uglavnom odnose na:

☒ vodosnabdevanje ☐ zaštitu voda ☐ obrazovanje/istraživanje
☐ međunarodna saradnja ☐ finansije/zakonodavstvo ☐ ostalo, navedite:

Vaše aktivnosti se, u prostornom smislu, najviše odnose na sledeći nivo:
(Molimo Vas da koristite procentualnu procenu tako da ukupan zbir bude 100%)
Primer : lokalni nivo -55%, nacionalni -25%, ostalo - 20%

lokalni 90%, regionalni 8 %, nacionalni 2 %, međunarodni _ %, ostalo(molimo Vas navedite) : _____, %

Koji su trenutno najveći problemi i otvorena pitanja vezano za upravljanje sistemima za vodosnabdevanje?
(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema/otvorena pitanja)

☒ ² Gubici ☒ ¹ Količina ☒ ³ Kvalitet ☒ ¹ Cena vode

☐ Zakonodavni/ strateški okvir ☒ ² Nedostatak finansijskih sredstava ☒ ³ Infrastruktura

☐ Kapaciteti : ☐ institucionalni ☒ ² tehnički ☒ ⁵ ljudski

☐ Klimatske promene ☐ Nedovoljna saradnja

☐ ostalo(navedite):

Molimo Vas rangirajte sledeće koje detaljnije opisuje prethodno navedene probleme/otvorena pitanja :
(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

GUBICI

- ² ☐ neovlašćena potrošnja ³ ☐ greške u merenju ¹ ☐ procurivanje u distributivnoj mreži
☐ curenje u vodovodnim objektima ☐ ostalo(navedite)

KOLIČINA

- ⁴ ☐ porast potrošnje ⁵ ☐ sezonske varijacije ⁴ ☐ zapremina rezervoarskog prostora
☐ promene namene i koršćenja zemljišta ☐ velika potrošnja ostalih sektora (poljoprivreda, industrija, itd)
☐ klimatske promene ☐ ostalo(navedite)

KVALITET

- ² ☐ tačkasti izvori zagađenja ³ ☐ rasuti izvori zagađenja ⁴ ☐ problemi vezani za izvorišta
☐ promene namene i koršćenja zemljišta ☐ sezonske varijacije ☐ klimatske promene
☐ ostalo(navedite)

ORGANIČENJA U VODOSNABDEVANJU

- ³ ☐ neadekvatna mreža ⁴ ☐ kapacitet crpnih stanica ⁴ ☐ nedovoljno rezervoara
³ ☐ slabo održavanje distributivne mreže i sistema ¹ ☐ dotrajalost
☐ ostalo(navedite)

Po vašem mišljenju, koja su najveća ograničenja u vezi vodosnabdevanja u bliskoj budućnosti (narednih 25 - 30 godina)?

(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- ³ ☐ gubici ⁵ ☐ količina ⁴ ☐ kvalitet ² ☐ cena vode ☐ zakonodavni i strateški okvir
¹ ☐ nedostatak finasijskih sredstava ³ ☐ infrastruktura ☐ Kapaciteti: ☐ institucionalni ² ☐ tehnički ⁴ ☐ ljudski
☐ ostalo(navedite):

Molimo Vas rangirajte po značaju aktivnosti i korake koji mogu poboljšati vodosnabdevanje u odnosu na prethodno pomenute probleme i otvorena pitanja?

(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- ³ ☐ Više informacija o uticaju klimatskih promena na vodne resurse i budući razvoj/planiranje;
☐ Bolje razumevanje neizvesnosti u vezi klimatskih promena i njihovog uticaja na mere adaptacije;
⁵ ☐ Više informacija o budućoj raspoloživosti vodnih resursa i planiranju/razvoju;
² ☐ Poboljšano znanje o načinu korišćenju zemljišta i zonama sanitarne zaštite;
⁴ ☐ Više informacija o sigurnosti vodosnabdevanja u budućnosti;
☐ Poboljšanje upravljanja prekograničnim / regionalnim sistemima vodosnabdevanja;
☐ Razvoj zajedničkog protokola za prekogranične / regionalne sisteme vodosnabdevanje;
³ ☐ Implementacija prioriternih mera radi efikasnijeg upravljanja vodnim resursima i sistemima za vodosnabdevanje;
¹ ☐ Smanjenje gubitaka i kontinuirani monitoring procurivanja;
¹ ☐ Primena savremenih metodologija za kontinuirani monitoring: curenja, kvaliteta vode, rada pumpi, itd;
⁴ ☐ Razvoj web stranice koja će unaprediti saradnju, razmenu i transfer znanja, koji se odnose na probleme u vodosnabdevanju i upravljanju vodnim resursima;
☐ Ostalo(navedite):

Da li smatrate da je neke probleme/otvorena pitanja od opšteg interesa/ multidisciplinarna (cross-cutting) moguće rešiti:

(Molimo Vas rangirajte ih na sledeći način: **1 najveći**, **5 najmanji** rang, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- 3 ☐ Strateški pristup koji će rešiti većinu problema / otvorenih pitanja
- 2 ☐ Individualne strategije i smernice razvoja koje će se baviti većinom pitanja
- 4 ☐ Unapređenje saradnje među sektorima
- 4 ☐ Bolja saradnja institucija na lokalnom i nacionalnom nivou
- 1 ☐ Više finansijskih sredstava
- 2 ☐ Cena vode
- 2 ☐ Ostalo (navedite):

Koja su 3 najznačajnija aktera / aktivnosti za poboljšanje upravljanja sistemima za vodosnabdevanje i vodnim resursima?

→ ODNOS DRŽAVNE I TERENIČKE MENADŽMENTA (KADROVSKA POLITIKA)
FINANSIJE (ZA INVEŠTIRANJE) KOJE NE MOGU IZ POSLOVANJE COME VODE

Koje su aktivnosti koje Vaša institucija / organizacija može sprovesti radi poboljšanja upravljanja sistemima za vodosnabdevanje i vodnim resursima i doprineti njihovoj održivosti?

→ UVOĐENJE GIS-a, POSTAVITI MERAČE NA VOD. MREŽI

Da li smatrate da samo aktivnosti i mere na državnom nivou doprinose poboljšanju vodosnabdevanja?

☐ Da ☒ Ne

Ukoliko je odgovor "Ne", molimo Vas navedite ostale institucionalne nivoe od značaja:

LOKALNA SAMOUPRAVA I JAVNO PREDUZEĆE JKP-VODOVOD

U kojoj meri ste upoznati sa ulogom i aktivnostima bilateralnih komisija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima?

☐ Potpuno ☐ Umereno ☒ Nedovoljno

U kojoj meri ste upoznati sa ulogom i aktivnostima lokalnih institucija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje?

☐ Potpuno ☒ Umereno ☐ Nedovoljno

Da li postoji zakonodavni okvir (sporazumi, ugovori, Memorandum o razumevanju, i drugo) koji su značajni za prekogranično / regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima u Srbiji sa kojima ste Vi upoznati?

☐ Da ☐ Ne

Ukoliko je odgovor "Da", molimo Vas navedite naziv:

U kojoj meri ste upoznati sa problemima/otvorenim pitanjima i ograničenjima koja se odnose na prekogranične/regionalne vodne resurse?

☐ Potpuno ☒ Umereno ☐ Nedovoljno

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Stepen implementacije planova upravljanja prekograničnim slivovima:

☐ Završena ☐ U toku ☐ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Stepen implementacije planova upravljanja vodama na teritoriji Republike Srbije:

☐ Završena ☐ U toku ☐ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Koje su, po vašem mišljenju, najvažnije teme o kojima bi želeli da dobijete više informacija u vezano za prekogranično/regionalno upravljanje vodama i vodnim resursima ?

Da li smatrate da je ovaj tip radionica/okruglih stolova koristan:

☒ Da ☐ Ne ☐ Nemam stav

Dodatni komentari:

IZUZETNO PEJZATNA I STRUČNA RADIONICA
I SA DODATNIM TEMAMA I KOMENTARIMA
SAMIH UČESNIKA



**Saradnja radi poboljšanja vodosnabdevanja
na području Jadranskog sliva**



**UPITNIK O UPRAVLJANJU PREKOGRANIČNIM / REGIONALNIM
SISTEMIMA ZA VODOSNABDEVANJE I VODNIM RESURSIMA**

Aktivnosti koje se odnose na kapitalizaciju i održivost projekta su važna komponenta koja će poslužiti kao okvir za razmenu bitnih iskustva i znanja od značaja za prekogranične / regionalne sisteme vodosnabdevanja i vodne resurse. Predviđena je razmena informacija i podataka zainteresovanih strana, državnih institucija, naučno-istraživačkih organizacija, i drugo.

Informacije i odgovori prikupljeni tokom nacionalnih radionica, u svih 8 zemalja, predstavljaju veoma važne ulazne podatke i doprinose u velikoj meri uspešnoj realizaciji DRINKADRIA projekta.

Ime:	Aleksandra
Prezime:	Atanasijević
Institucija/ Organizacija: (Ukoliko želite da ostanete anonimni, niste u obavezi da popunite ovaj deo)	JKP "Vodovod - Krusovica"
Delokrug rada Vaše institucije/ organizacije:	
<input checked="" type="checkbox"/> Javno komunalno preduzeće <input type="checkbox"/> Institucije: <input type="checkbox"/> lokalna <input type="checkbox"/> regionalna <input type="checkbox"/> nacionalna <input type="checkbox"/> Istraživačka organizacija <input type="checkbox"/> Udruženje vodovoda <input type="checkbox"/> ostalo (molimo naznačite):	
Vaše radne aktivnosti se uglavnom odnose na:	
<input checked="" type="checkbox"/> vodosnabdevanje <input type="checkbox"/> zaštitu voda <input type="checkbox"/> obrazovanje/istraživanje <input type="checkbox"/> međunarodna saradnja <input type="checkbox"/> finansije/zakonodavstvo <input type="checkbox"/> ostalo, navedite:	
Vaše aktivnosti se, u prostornom smislu, najviše odnose na sledeći nivo: (Molimo Vas da koristite procentualnu procenu tako da ukupan zbir bude 100%) Primer : lokalni nivo -55%, nacionalni -25%, ostalo - 20%	
lokalni 70%, regionalni 30%, nacionalni %, međunarodni %, ostalo(molimo Vas navedite) : %,	
Koji su trenutno najveći problemi i otvorena pitanja vezano za upravljanje sistemima za vodosnabdevanje? (Molimo Vas rangirajte ih na sledeći način: 1 najveći, 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema/otvorena pitanja)	
4 <input type="checkbox"/> Gubici <input type="checkbox"/> Količina <input type="checkbox"/> Kvalitet <input checked="" type="checkbox"/> Cena vode	
<input type="checkbox"/> Zakonodavni/ strateški okvir <input checked="" type="checkbox"/> Nedostatak finansijskih sredstava 3 <input type="checkbox"/> Infrastruktura	
<input type="checkbox"/> Kapaciteti : <input type="checkbox"/> institucionalni <input type="checkbox"/> tehnički <input type="checkbox"/> ljudski	
5 <input type="checkbox"/> Klimatske promene <input type="checkbox"/> Nedovoljna saradnja	
3 <input type="checkbox"/> ostalo(navedite): Dostupnost resursa	

Molimo Vas rangirajte sledeće koje detaljnije opisuje prethodno navedene probleme/otvorena pitanja :
(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

GUBICI

- 1 ☒ neovlašćena potrošnja ☐ greške u merenju ☒ procurivanje u distributivnoj mreži
2 ☒ curenje u vodovodnim objektima ☐ ostalo(navedite) **2. DODATNA JAVNA MREŽA**

KOLIČINA

- ☒ porast potrošnje ☒ sezonske varijacije ☐ zapremina rezervoarskog prostora
1 ☒ promene namene i koršćenja zemljišta ☐ velika potrošnja ostalih sektora (poljoprivreda, industrija, itd)
1 ☒ klimatske promene ☐ ostalo(navedite)

KVALITET

- 1 ☒ tačkasti izvori zagađenja ☐ rasuti izvori zagađenja ☐ problemi vezani za izvorišta
1 ☒ promene namene i koršćenja zemljišta **2** ☐ sezonske varijacije **3** ☐ klimatske promene
1 ☒ ostalo(navedite)

ORGANIČENJA U VODOSNABDEVANJU

- 2 ☒ neadekvatna mreža ☐ kapacitet crpnih stanica **4** ☐ nedovoljno rezervoara
3 ☒ slabo održavanje distributivne mreže i sistema **1** ☐ dotrajalo
1 ☒ ostalo(navedite)

Po vašem mišljenju, koja su najveća ograničenja u vezi vodosnabdevanja u bliskoj budućnosti (narednih 25 - 30 godina)?

(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- 2 ☐ gubici **3** ☒ količina **4** ☐ kvalitet **1** ☐ cena vode ☐ zakonodavni i strateški okvir
1 ☐ nedostatak finansijskih sredstava **2** ☐ infrastruktura ☐ Kapaciteti: ☐ institucionalni ☐ tehnički ☐ ljudski
1 ☒ ostalo(navedite):

Molimo Vas rangirajte po značaju aktivnosti i korake koji mogu poboljšati vodosnabdevanje u odnosu na prethodno pomenute probleme i otvorena pitanja?

(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- 5 ☐ Više informacija o uticaju klimatskih promena na vodne resurse i budući razvoj/planiranje;
5 ☐ Bolje razumevanje neizvesnosti u vezi klimatskih promena i njihovog uticaja na mere adaptacije;
2 ☐ Više informacija o budućoj raspoloživosti vodnih resursa i planiranju/razvoju;
2 ☐ Poboljšano znanje o načinu korišćenju zemljišta i zonama sanitarne zaštite;
3 ☐ Više informacija o sigurnosti vodosnabdevanja u budućnosti;
3 ☐ Poboljšanje upravljanja prekograničnim / regionalnim sistemima vodosnabdevanja;
6 ☐ Razvoj zajedničkog protokola za prekogranične / regionalne sisteme vodosnabdevanja;
5 ☐ Implementacija prioritarnih mera radi efikasnijeg upravljanja vodnim resursima i sistemima za vodosnabdevanje;
1 ☐ Smanjenje gubitaka i kontinuirani monitoring procurivanja;
4 ☐ Primena savremenih metodologija za kontinuirani monitoring: curenja, kvaliteta vode, rada pumpi, itd;
7 ☐ Razvoj web stranice koja će unaprediti saradnju, razmenu i transfer znanja, koji se odnose na probleme u vodosnabdevanju i upravljanju vodnim resursima;
1 ☐ Ostalo(navedite):

Da li smatrate da je neke probleme/otvorena pitanja od opšteg interesa/ multidisciplinarna (cross-cutting) moguće rešiti:

(Molimo Vas rangirajte ih na sledeći način: **1 najveći**, **5 najmanji** rang, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- 4 ☐ Strateški pristup koji će rešiti većinu problema / otvorenih pitanja
3 ☐ Individualne strategije i smernice razvoja koje će se baviti većinom pitanja
5 ☐ Unapređenje saradnje među sektorima
6 ☐ Bolja saradnja institucija na lokalnom i nacionalnom nivou
1 ☐ Više finansijskih sredstava
2 ☐ Cena vode
☐ Ostalo (navedite):

Koja su 3 najznačajnija aktera / aktivnosti za poboljšanje upravljanja sistemima za vodosnabdevanje i vodnim resursima?

- ПОВЕЋАЊЕ ФИНАНСИЈСКИХ СРЕДСТВА (ПОВЕЋАЊЕ ЧЕКЕ ВОДЕ)
- СМАЊЕЊЕ ГУБИТАКА
-

Koje su aktivnosti koje Vaša institucija / organizacija može sprovesti radi poboljšanja upravljanja sistemima za vodosnabdevanje i vodnim resursima i doprineti njihovoj održivosti?

УНАПРЕЂЕЊЕ У ИЗБОЈ НА ЛОКАЛНИ НИВОУ, У МОНИТОРИНГ И МЕРЕЊЕ И "ГНС"

Da li smatrate da samo aktivnosti i mere na državnom nivou doprinose poboljšanju vodosnabdevanja?

☐ Da ☒ Ne

Ukoliko je odgovor "Ne", molimo Vas navedite ostale institucionalne nivoe od značaja: МЕРЕ НА ЛОКАЛНОМ НИВОУ; УПРАВЉАЊЕ ЖИВО ПОПУЛАЦИЈИМ ПРОДУКЦИЈАМА

U kojoj meri ste upoznati sa ulogom i aktivnostima bilateralnih komisija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima?

☐ Potpuno ☐ Umereno ☒ Nedovoljno

U kojoj meri ste upoznati sa ulogom i aktivnostima lokalnih institucija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje?

☐ Potpuno ☒ Umereno ☐ Nedovoljno

Da li postoji zakonodavni okvir (sporazumi, ugovori, Memorandum o razumevanju, i drugo) koji su značajni za prekogranično / regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima u Srbiji sa kojima ste Vi upoznati?

☒ Da ☐ Ne

Ukoliko je odgovor "Da", molimo Vas navedite naziv:

ОПШТИНСКЕ ОДЛУКЕ О ВОДОВОДУ И КАНАЛИЗАЦИЈИ

U kojoj meri ste upoznati sa problemima/otvorenim pitanjima i ograničenjima koja se odnose na prekogranične/regionalne vodne resurse?

☒ Potpuno ☒ Umereno ☐ Nedovoljno

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Stepen implementacije planova upravljanja prekograničnim slivovima:

☐ Završena ☒ U toku ☐ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Stepen implementacije planova upravljanja vodama na teritoriji Republike Srbije:

☐ Završena ☒ U toku ☐ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Koje su, po vašem mišljenju, najvažnije teme o kojima bi želeli da dobijete više informacija u vezano za prekogranično/regionalno upravljanje vodama i vodnim resursima ?

Da li smatrate da je ovaj tip radionica/okruglih stolova koristan:

☒ Da ☐ Ne ☐ Nemam stav

Dodatni komentari:



**Saradnja radi poboljšanja vodosnabdevanja
na području Jadranskog sliva**



**UPITNIK O UPRAVLJANJU PREKOGRANIČNIM / REGIONALNIM
SISTEMIMA ZA VODOSNABDEVANJE I VODNIM RESURSIMA**

Aktivnosti koje se odnose na kapitalizaciju i održivost projekta su važna komponenta koja će poslužiti kao okvir za razmenu bitnih iskustva i znanja od značaja za prekogranične / regionalne sisteme vodosnabdevanja i vodne resurse. Predviđena je razmena informacija i podataka zainteresovanih strana, državnih institucija, naučno-istraživačkih organizacija, i drugo.

Informacije i odgovori prikupljeni tokom nacionalnih radionica, u svih 8 zemalja, predstavljaju veoma važne ulazne podatke i doprinose u velikoj meri uspešnoj realizaciji DRINKADRIA projekta.

Ime: Prezime: Institucija/ Organizacija: (Ukoliko želite da ostanete anonimni, niste u obavezi da popunite ovaj deo)	
Delokrug rada Vaše institucije/ organizacije: <input checked="" type="checkbox"/> Javno komunalno preduzeće <input type="checkbox"/> Institucije: <input type="checkbox"/> lokalna <input type="checkbox"/> regionalna <input type="checkbox"/> nacionalna <input type="checkbox"/> Istraživačka organizacija <input type="checkbox"/> Udruženje vodovoda <input type="checkbox"/> ostalo (molimo naznačite):	
Vaše radne aktivnosti se uglavnom odnose na: <input checked="" type="checkbox"/> vodosnabdevanje <input checked="" type="checkbox"/> zaštitu voda <input type="checkbox"/> obrazovanje/istraživanje <input type="checkbox"/> međunarodna saradnja <input type="checkbox"/> finansije/zakonodavstvo <input type="checkbox"/> ostalo, navedite:	
Vaše aktivnosti se, u prostornom smislu, najviše odnose na sledeći nivo: (Molimo Vas da koristite procentualnu procenu tako da ukupan zbir bude 100%) Primer : lokalni nivo -55%, nacionalni -25%, ostalo - 20% lokalni <u>10</u> %, regionalni <u>30</u> %, nacionalni _ %, međunarodni _ %, ostalo(molimo Vas navedite) : _____, %	
Koji su trenutno najveći problemi i otvorena pitanja vezano za upravljanje sistemima za vodosnabdevanje? (Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema/otvorena pitanja) <input checked="" type="checkbox"/> Gubici <input checked="" type="checkbox"/> Količina <input checked="" type="checkbox"/> Kvalitet <input checked="" type="checkbox"/> Cena vode <input checked="" type="checkbox"/> Zakonodavni/ strateški okvir <input checked="" type="checkbox"/> Nedostatak finansijskih sredstava <input checked="" type="checkbox"/> Infrastruktura <input type="checkbox"/> Kapaciteti : <input checked="" type="checkbox"/> institucionalni <input type="checkbox"/> tehnički <input type="checkbox"/> ljudski <input checked="" type="checkbox"/> Klimatske promene <input checked="" type="checkbox"/> Nedovoljna saradnja <input type="checkbox"/> ostalo(navedite):	

Molimo Vas rangirajte sledeće koje detaljnije opisuju prethodno navedene probleme/otvorena pitanja :
(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

GUBICI

- ☒ neovlašćena potrošnja ☒ greške u merenju ☒ procurivanje u distributivnoj mreži
☒ curenje u vodovodnim objektima ☐ ostalo(navedite)

KOLIČINA

- ☒ porast potrošnje ☒ sezonske varijacije ☒ zapremina rezervoarskog prostora
☐ promene namene i koršćenja zemljišta ☒ velika potrošnja ostalih sektora (poljoprivreda, industrija, itd)
☐ klimatske promene ☐ ostalo(navedite)

KVALITET

- ☒ tačkasti izvori zagađenja ☐ rasuti izvori zagađenja ☒ problemi vezani za izvorišta
☐ promene namene i koršćenja zemljišta ☒ sezonske varijacije ☒ klimatske promene
☐ ostalo(navedite)

ORGANIČENJA U VODOSNABDEVANJU

- ☒ neadekvatna mreža ☒ kapacitet crpnih stanica ☒ nedovoljno rezervoara
☒ slabo održavanje distributivne mreže i sistema ☒ dotrajalost
☐ ostalo(navedite)

Po vašem mišljenju, koja su najveća ograničenja u vezi vodosnabdevanja u bliskoj budućnosti (narednih 25 - 30 godina)?

(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- ☒ gubici ☒ količina ☒ kvalitet ☒ cena vode ☒ zakonodavni i strateški okvir
☒ nedostatak finansijskih sredstava ☐ infrastruktura ☐ Kapaciteti: ☒ institucionalni ☐ tehnički ☐ ljudski
☐ ostalo(navedite):

Molimo Vas rangirajte po značaju aktivnosti i korake koji mogu poboljšati vodosnabdevanje u odnosu na prethodno pomenute probleme i otvorena pitanja?

(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- ☐ Više informacija o uticaju klimatskih promena na vodne resurse i budući razvoj/planiranje;
☐ Bolje razumevanje neizvesnosti u vezi klimatskih promena i njihovog uticaja na mere adaptacije;
☒ Više informacija o budućoj raspoloživosti vodnih resursa i planiranju/razvoju;
☒ Poboljšano znanje o načinu korišćenju zemljišta i zonama sanitarne zaštite;
☒ Više informacija o sigurnosti vodosnabdevanja u budućnosti;
☐ Poboljšanje upravljanja prekograničnim / regionalnim sistemima vodosnabdevanja;
☐ Razvoj zajedničkog protokola za prekogranične / regionalne sisteme vodosnabdevanja;
☒ Implementacija prioriternih mera radi efikasnijeg upravljanja vodnim resursima i sistemima za vodosnabdevanje;
☒ Smanjenje gubitaka i kontinuirani monitoring procurivanja;
☒ Primena savremenih metodologija za kontinuirani monitoring: curenja, kvaliteta vode, rada pumpi, itd;
☒ Razvoj web stranice koja će unaprediti saradnju, razmenu i transfer znanja, koji se odnose na probleme u vodosnabdevanju i upravljanju vodnim resursima;
☐ Ostalo(navedite):

Da li smatrate da je neke probleme/otvorena pitanja od opšteg interesa/ multidisciplinarna (cross-cutting) moguće rešiti:

(Molimo Vas rangirajte ih na sledeći način: **1 najveći**, **5 najmanji** rang, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- ☒ Strateški pristup koji će rešiti većinu problema / otvorenih pitanja
- ☒ Individualne strategije i smernice razvoja koje će se baviti većinom pitanja
- ☒ Unapređenje saradnje među sektorima
- ☒ Bolja saradnja institucija na lokalnom i nacionalnom nivou
- ☒ Više finansijskih sredstava
- ☒ Cena vode
- ☐ Ostalo (navedite):

Koja su 3 najznačajnija aktera / aktivnosti za poboljšanje upravljanja sistemima za vodosnabdevanje i vodnim resursima?

- КОМИТЕТ ИЗБОРНИКА
- МЕРЕНА
- СКАДА-СИСТЕМ
- ОПЕРАТИВНОСТ

Koje su aktivnosti koje Vaša institucija / organizacija može sprovesti radi poboljšanja upravljanja sistemima za vodosnabdevanje i vodnim resursima i doprineti njihovoj održivosti?

- ИЗРАДА ПРОЈЕКТА ИСПУНА, МОДИФИКАЦИЈА МЕРНА

Da li smatrate da samo aktivnosti i mere na državnom nivou doprinose poboljšanju vodosnabdevanja?

☐ Da ☒ Ne

Ukoliko je odgovor "Ne", molimo Vas navedite ostale institucionalne nivoe od značaja:

ЛОКАЛНЕ САМОУПРАВЕ

U kojoj meri ste upoznati sa ulogom i aktivnostima bilateralnih komisija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima?

☐ Potpuno ☒ Umereno ☐ Nedovoljno

U kojoj meri ste upoznati sa ulogom i aktivnostima lokalnih institucija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima?

☐ Potpuno ☐ Umereno ☒ Nedovoljno

Da li postoji zakonodavni okvir (sporazumi, ugovori, Memorandum o razumevanju, i drugo) koji su značajni za prekogranično / regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima u Srbiji sa kojima ste Vi upoznati?

☐ Da ☒ Ne

Ukoliko je odgovor "Da", molimo Vas navedite naziv:

U kojoj meri ste upoznati sa problemima/otvorenim pitanjima i ograničenjima koja se odnose na prekogranične/regionalne vodne resurse?

☐ Potpuno ☐ Umereno ☒ Nedovoljno

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Stepen implementacije planova upravljanja prekograničnim slivovima:

☐ Završena ☒ U toku ☐ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Stepen implementacije planova upravljanja vodama na teritoriji Republike Srbije:

☐ Završena ☒ U toku ☐ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Koje su, po vašem mišljenju, najvažnije teme o kojima bi želeli da dobijete više informacija u vezano za prekogranično/regionalno upravljanje vodama i vodnim resursima?

ОБРАТУВАЊЕ МРЕНИС: МОДЕЛЦАЊЕ, ИМПЛЕМЕНТАЦИЈА

Da li smatrate da je ovaj tip radionica/okruglih stolova koristan:

☒ Da ☐ Ne ☐ Nemam stav

Dodatni komentari:

РАЈОНИКА ЈЕ ОБРАТНА НАЈВАЖНИЈА ДИО
ФУНКЦИОНАЛНА РЕЖИОНАЛНА ЧАСТ. ОСНОВИТО ЈЕ
У ПРЕДЗЕМНИ УРЕДИТИ РАЗВОЈИ ДИО КОЈИ
БЕ СЕ НЕПРЕКИДАНО ГАЗИТИ ПРОБЛЕМИ.



**Saradnja radi poboljšanja vodosnabdevanja
na području Jadranskog sliva**



**UPITNIK O UPRAVLJANJU PREKOGRANIČNIM / REGIONALNIM
SISTEMIMA ZA VODOSNABDEVANJE I VODNIM RESURSIMA**

Aktivnosti koje se odnose na kapitalizaciju i održivost projekta su važna komponenta koja će poslužiti kao okvir za razmenu bitnih iskustva i znanja od značaja za prekogranične / regionalne sisteme vodosnabdevanja i vodne resurse. Predviđena je razmena informacija i podataka zainteresovanih strana, državnih institucija, naučno-istraživačkih organizacija, i drugo.

Informacije i odgovori prikupljeni tokom nacionalnih radionica, u svih 8 zemalja, predstavljaju veoma važne ulazne podatke i doprinose u velikoj meri uspešnoj realizaciji DRINKADRIA projekta.

Ime:	DUSAN
Prezime:	PRODANOVIC
Institucija/ Organizacija: (Ukoliko želite da ostanete anonimni, niste u obavezi da popunite ovaj deo)	GRADJEVINSKI FAKULTET UNIVERZITETA U BEOGRADU DPRODANOVIC@Hikom.GRF.BG.AC.RS
Delokrug rada Vaše institucije/ organizacije: <input type="checkbox"/> Javno komunalno preduzeće <input type="checkbox"/> Institucije: <input type="checkbox"/> lokalna <input type="checkbox"/> regionalna <input type="checkbox"/> nacionalna <input checked="" type="checkbox"/> Istraživačka organizacija <input type="checkbox"/> Udruženje vodovoda <input checked="" type="checkbox"/> ostalo (molimo naznačite): <u>EDUKATIVNA/ORGANOVA</u>	
Vaše radne aktivnosti se uglavnom odnose na: <input checked="" type="checkbox"/> vodosnabdevanje <input type="checkbox"/> zaštitu voda <input checked="" type="checkbox"/> obrazovanje/istraživanje <input checked="" type="checkbox"/> međunarodna saradnja <input type="checkbox"/> finansije/zakonodavstvo <input type="checkbox"/> ostalo, navedite:	
Vaše aktivnosti se, u prostornom smislu, najviše odnose na sledeći nivo: <i>(Molimo Vas da koristite procentualnu procenu tako da ukupan zbir bude 100%)</i> Primer : lokalni nivo -55%, nacionalni -25%, ostalo - 20% lokalni <u> </u> %, regionalni <u> </u> %, nacionalni <u>80</u> %, međunarodni <u>20</u> %, ostalo(molimo Vas navedite) : <u> </u> , %	
Koji su trenutno najveći problemi i otvorena pitanja vezana za upravljanje sistemima za vodosnabdevanje? <i>(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema/otvorena pitanja)</i> <div style="display: flex; justify-content: space-around;"> <div> <u>4</u> Gubici <u>1</u> Zakonodavni/ strateški okvir <input type="checkbox"/> Kapaciteti : <input type="checkbox"/> institucionalni <input type="checkbox"/> tehnički <u>2</u> ljudski <input type="checkbox"/> Klimatske promene <input type="checkbox"/> Nedovoljna saradnja <input type="checkbox"/> ostalo(navedite): </div> <div> <u>5</u> Količina <input type="checkbox"/> Nedostatak finansijskih sredstava </div> <div> <u>4</u> Kvalitet <u>3</u> Cena vode <u>3</u> Infrastruktura </div> </div>	

? Elemente

Molimo Vas rangirajte sledeće koje detaljnije opisuju prethodno navedene probleme/otvorena pitanja :
(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

GUBICI

- 2 ☐ neovlašćena potrošnja 1 ☐ greške u merenju 1 ☐ procurivanje u distributivnoj mreži
5 ☐ curenje u vodovodnim objektima 2 ☐ ostalo(navedite) - visoki pritisci

KOLIČINA

- ☐ porast potrošnje 2 ☐ sezone varijacije 2 ☐ zapremina rezervoarskog prostora
☐ promene namene i koršćenja zemljišta 1 ☐ velika potrošnja ostalih sektora (poljoprivreda, industrija, itd)
☐ klimatske promene ☐ ostalo(navedite)

KVALITET

- 1 ☐ tačkasti izvori zagađenja 1 ☐ rasuti izvori zagađenja 2 ☐ problemi vezani za izvorišta
3 ☐ promene namene i koršćenja zemljišta ☐ sezone varijacije ☐ klimatske promene
☐ ostalo(navedite)

ORGANIČENJA U VODOSNABDEVANJU

- 3 ☐ neadekvatna mreža ☐ kapacitet crpnih stanica 3 ☐ nedovoljno rezervoara
2 ☐ slabo održavanje distributivne mreže i sistema 1 ☐ dotrajalost
☐ ostalo(navedite)

Po vašem mišljenju, koja su najveća ograničenja u vezi vodosnabdevanja u bliskoj budućnosti (narednih 25 - 30 godina)?
(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- 4 ☐ gubici 5 ☐ količina 4 ☐ kvalitet ☐ cena vode 1 ☐ zakonodavni i strateški okvir
3 ☐ nedostatak finansijskih sredstava 2 ☐ infrastruktura ☐ Kapaciteti: ☐ institucionalni ☐ tehnički ☐ ljudski
☐ ostalo(navedite):

Molimo Vas rangirajte po značaju aktivnosti i korake koji mogu poboljšati vodosnabdevanje u odnosu na prethodno pomenute probleme i otvorena pitanja?
(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- 3 ☐ Više informacija o uticaju klimatskih promena na vodne resurse i budući razvoj/planiranje;
3 ☐ Bolje razumevanje neizvesnosti u vezi klimatskih promena i njihovog uticaja na mere adaptacije;
2 ☐ Više informacija o budućoj raspoloživosti vodnih resursa i planiranju/razvoju;
2 ☐ Poboľšano znanje o načinu korišćenju zemljišta i zonama sanitarne zaštite;
1 ☐ Više informacija o sigurnosti vodosnabdevanja u budućnosti;
2 ☐ Poboľšanje upravljanja prekograničnim / regionalnim sistemima vodosnabdevanja;
2 ☐ Razvoj zajedničkog protokola za prekogranične / regionalne sisteme vodosnabdevanja;
1 ☐ Implementacija prioriternih mera radi efikasnijeg upravljanja vodnim resursima i sistemima za vodosnabdevanje;
2 ☐ Smanjenje gubitaka i kontinuirani monitoring procurivanja;
4 ☐ Primena savremenih metodologija za kontinuirani monitoring: curenja, kvaliteta vode, rada pumpi, itd;
4 ☐ Razvoj web stranice koja će unaprediti saradnju, razmenu i transfer znanja, koji se odnose na probleme u vodosnabdevanju i upravljanju vodnim resursima;
☐ Ostalo(navedite):

Da li smatrate da je neke probleme / otvorena pitanja od opšteg interesa / multidisciplinarna (cross-cutting) moguće rešiti:

(Molimo Vas rangirajte ih na sledeći način: **1 najveći**, **5 najmanji** rang, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- 1 ☐ Strateški pristup koji će rešiti većinu problema / otvorenih pitanja
- 2 ☐ Individualne strategije i smernice razvoja koje će se baviti većinom pitanja
- 3 ☐ Unapređenje saradnje među sektorima
- 3 ☐ Bolja saradnja institucija na lokalnom i nacionalnom nivou
- 3 ☐ Više finansijskih sredstava
- 3 ☐ Cena vode
- 4 ☐ Ostalo (navedite):

Koja su 3 najznačajnija aktera / aktivnosti za poboljšanje upravljanja sistemima za vodosnabdevanje i vodnim resursima?

- DRŽAVA - VODOVOD
- LOKALNA - ZAJNOST (PUBLIC PARTICIPATION)

Koje su aktivnosti koje Vaša institucija / organizacija može sprovesti radi poboljšanja upravljanja sistemima za vodosnabdevanje i vodnim resursima i doprineti njihovoj održivosti?

PRIDACOVANJE OASNOVNIH PROCESNA KAO BI
BOJE PRIPREMILI STUDENTE.

Da li smatrate da samo aktivnosti i mere na državnom nivou doprinose poboljšanju vodosnabdevanja?

☐ Da ☐ Ne

Ukoliko je odgovor "Ne", molimo Vas navedite ostale institucionalne nivoe od značaja:

U kojoj meri ste upoznati sa ulogom i aktivnostima bilateralnih komisija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima?

☐ Potpuno ☒ Umereno ☐ Nedovoljno

U kojoj meri ste upoznati sa ulogom i aktivnostima lokalnih institucija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima?

☐ Potpuno ☒ Umereno ☐ Nedovoljno

Da li postoji zakonodavni okvir (sporazumi, ugovori, Memorandum o razumevanju, i drugo) koji su značajni za prekogranično / regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima u Srbiji sa kojima ste Vi upoznati?

☐ Da ☒ Ne

Ukoliko je odgovor "Da", molimo Vas navedite naziv:

U kojoj meri ste upoznati sa problemima/otvorenim pitanjima i ograničenjima koja se odnose na prekogranične/regionalne vodne resurse?

☐ Potpuno ☒ Umereno ☐ Nedovoljno

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Stepen implementacije planova upravljanja prekograničnim slivovima:

☐ Završena ☒ U toku ☐ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Stepen implementacije planova upravljanja vodama na teritoriji Republike Srbije:

☐ Završena ☒ U toku ☐ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Koje su, po vašem mišljenju, najvažnije teme o kojima bi želeli da dobijete više informacija u vezano za prekogranično/regionalno upravljanje vodama i vodnim resursima ?

Da li smatrate da je ovaj tip radionica/okruglih stolova koristan:

☒ Da ☐ Ne ☐ Nemam stav

Dodatni komentari:



Saradnja radi poboljšanja vodosnabdevanja na području Jadranskog sliva



UPITNIK O UPRAVLJANJU PREKOGRANIČNIM / REGIONALNIM SISTEMIMA ZA VODOSNABDEVANJE I VODNIM RESURSIMA

Aktivnosti koje se odnose na kapitalizaciju i održivost projekta su važna komponenta koja će poslužiti kao okvir za razmenu bitnih iskustva i znanja od značaja za prekogranične / regionalne sisteme vodosnabdevanja i vodne resurse. Predviđena je razmena informacija i podataka zainteresovanih strana, državnih institucija, naučno-istraživačkih organizacija, i drugo.

Informacije i odgovori prikupljeni tokom nacionalnih radionica, u svih 8 zemalja, predstavljaju veoma važne ulazne podatke i doprinose u velikoj meri uspešnoj realizaciji DRINKADRIA projekta.

Ime:	Miodrag
Prezime:	Obrodović
Institucija/ Organizacija: (Ukoliko želite da ostanete anonimni, niste u obavezi da popunite ovaj deo)	JKP Vodoovod i kanalizacija Podgorice
Delokrug rada Vaše institucije/ organizacije: <input checked="" type="checkbox"/> Javno komunalno preduzeće <input type="checkbox"/> Institucije: <input type="checkbox"/> lokalna <input type="checkbox"/> regionalna <input type="checkbox"/> nacionalna <input type="checkbox"/> Istraživačka organizacija <input type="checkbox"/> Udruženje vodovoda <input type="checkbox"/> ostalo (molimo naznačite):	
Vaše radne aktivnosti se uglavnom odnose na: <input type="checkbox"/> vodosnabdevanje <input type="checkbox"/> zaštitu voda <input type="checkbox"/> obrazovanje/istraživanje <input type="checkbox"/> međunarodna saradnja <input type="checkbox"/> finansije/zakonodavstvo <input checked="" type="checkbox"/> ostalo, navedite: smanjenje gubitaka	
Vaše aktivnosti se, u prostornom smislu, najviše odnose na sledeći nivo: (Molimo Vas da koristite procentualnu procenu tako da ukupan zbir bude 100%) Primer : lokalni nivo -55%, nacionalni -25%, ostalo - 20% lokalni 100%, regionalni _ %, nacionalni _ %, međunarodni _ %, ostalo(molimo Vas navedite) : _ %,	
Koji su trenutno najveći problemi i otvorena pitanja vezano za upravljanje sistemima za vodosnabdevanje? (Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema/otvorena pitanja) 1 Gubici 3 Količina 4 Kvalitet 4 Cena vode 5 Zakonodavni/ strateški okvir <input type="checkbox"/> Nedostatak finansijskih sredstava 3 Infrastruktura <input type="checkbox"/> Kapaciteti : 5 institucionalni <input type="checkbox"/> tehnički 4 ljudski 2 Klimatske promene <input type="checkbox"/> Nedovoljna saradnja <input type="checkbox"/> ostalo(navedite):	

Molimo Vas rangirajte sledeće koje detaljnije opisuje prethodno navedene probleme/otvorena pitanja :
(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

GUBICI

- ☒ neovlašćena potrošnja ☒ greške u merenju ☒ procurivanje u distributivnoj mreži
☒ curenje u vodovodnim objektima ☒ ostalo(navedite) **gubici na priključcima**

KOLIČINA

- ☒ porast potrošnje ☒ sezonske varijacije ☒ zapremina rezervoarskog prostora
☒ promene namene i koršćenja zemljišta ☒ velika potrošnja ostalih sektora (poljoprivreda, industrija, itd)
☒ klimatske promene ☐ ostalo(navedite)

KVALITET

- ☒ tačkasti izvori zagađenja ☒ rasuti izvori zagađenja ☒ problemi vezani za izvorišta
☒ promene namene i koršćenja zemljišta ☒ sezonske varijacije ☒ klimatske promene
☐ ostalo(navedite)

ORGANIČENJA U VODOSNABDEVANJU

- ☒ neadekvatna mreža ☒ kapacitet crpnih stanica ☒ nedovoljno rezervoara
☒ slabo održavanje distributivne mreže i sistema ☒ dotrajalost
☐ ostalo(navedite)

Po vašem mišljenju, koja su najveća ograničenja u vezi vodosnabdevanja u bliskoj budućnosti (narednih 25 - 30 godina)?
(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- ☒ gubici ☒ količina ☒ kvalitet ☐ cena vode ☐ zakonodavni i strateški okvir
☒ nedostatak finansijskih sredstava ☒ infrastruktura ☐ Kapaciteti: ☐ institucionalni ☐ tehnički ☐ ljudski
☐ ostalo(navedite):

Molimo Vas rangirajte po značaju aktivnosti i korake koji mogu poboljšati vodosnabdevanje u odnosu na prethodno pomenute probleme i otvorena pitanja?
(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- ☐ Više informacija o uticaju klimatskih promena na vodne resurse i budući razvoj/planiranje;
☐ Bolje razumevanje neizvesnosti u vezi klimatskih promena i njihovog uticaja na mere adaptacije;
☐ Više informacija o budućoj raspoloživosti vodnih resursa i planiranju/razvoju;
☐ Poboljšano znanje o načinu korišćenju zemljišta i zonama sanitarne zaštite;
☒ Više informacija o sigurnosti vodosnabdevanja u budućnosti;
☒ Poboljšanje upravljanja prekograničnim / regionalnim sistemima vodosnabdevanja;
☒ Razvoj zajedničkog protokola za prekogranične / regionalne sisteme vodosnabdevanja;
☒ Implementacija prioriternih mera radi efikasnijeg upravljanja vodnim resursima i sistemima za vodosnabdevanje;
☒ Smanjenje gubitaka i kontinuirani monitoring procurivanja;
☒ Primena savremenih metodologija za kontinuirani monitoring: curenja, kvaliteta vode, rada pumpi, itd;
☒ Razvoj web stranice koja će unaprediti saradnju, razmenu i transfer znanja, koji se odnose na probleme u vodosnabdevanju i upravljanju vodnim resursima;
☐ Ostalo(navedite):

Da li smatrate da je neke probleme/otvorena pitanja od opšteg interesa/ multidisciplinarna (*cross-cutting*) moguće rešiti:

(Molimo Vas rangirajte ih na sledeći način: **1 najveći**, **5 najmanji** rang, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- ☒ Strateški pristup koji će rešiti većinu problema / otvorenih pitanja
- ☒ Individualne strategije i smernice razvoja koje će se baviti većinom pitanja
- ☒ Unapređenje saradnje među sektorima
- ☒ Bolja saradnja institucija na lokalnom i nacionalnom nivou
- ☒ Više finansijskih sredstava
- ☒ Cena vode
- ☐ Ostalo (navedite):

Koja su 3 najznačajnija aktera / aktivnosti za poboljšanje upravljanja sistemima za vodosnabdevanje i vodnim resursima?

Koje su aktivnosti koje Vaša institucija / organizacija može sprovesti radi poboljšanja upravljanja sistemima za vodosnabdevanje i vodnim resursima i doprineti njihovoj održivosti?

Da li smatrate da samo aktivnosti i mere na državnom nivou doprinose poboljšanju vodosnabdevanja?

☒ Da ☐ Ne

Ukoliko je odgovor "Ne", molimo Vas navedite ostale institucionalne nivoe od značaja:

U kojoj meri ste upoznati sa ulogom i aktivnostima bilateralnih komisija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima?

☒ Potpuno ☐ Umereno ☐ Nedovoljno

U kojoj meri ste upoznati sa ulogom i aktivnostima lokalnih institucija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje?

☒ Potpuno ☐ Umereno ☐ Nedovoljno

Da li postoji zakonodavni okvir (sporazumi, ugovori, Memorandum o razumevanju, i drugo) koji su značajni za prekogranično / regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima u Srbiji sa kojima ste Vi upoznati?

☐ Da ☒ Ne

Ukoliko je odgovor "Da", molimo Vas navedite naziv:

U kojoj meri ste upoznati sa problemima/otvorenim pitanjima i ograničenjima koja se odnose na prekogranične/regionalne vodne resurse?

☐ Potpuno ☐ Umereno ☒ Nedovoljno

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Stepen implementacije planova upravljanja prekograničnim slivovima:

☐ Završena ☒ U toku ☐ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Stepen implementacije planova upravljanja vodama na teritoriji Republike Srbije:

☐ Završena ☒ U toku ☐ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Koje su, po vašem mišljenju, najvažnije teme o kojima bi želeli da dobijete više informacija u vezano za prekogranično/regionalno upravljanje vodama i vodnim resursima ?

Upravljanje vodama i vodnim resursima, upravljanje procenama

Da li smatrate da je ovaj tip radionica/okruglih stolova koristan:

☒ Da ☐ Ne ☐ Nemam stav

Dodatni komentari:



Saradnja radi poboljšanja vodosnabdevanja
na području Jadranskog sliva



UPITNIK O UPRAVLJANJU PREKOGRANIČNIM / REGIONALNIM
SISTEMIMA ZA VODOSNABDEVANJE I VODNIM RESURSIMA

Aktivnosti koje se odnose na kapitalizaciju i održivost projekta su važna komponenta koja će poslužiti kao okvir za razmenu bitnih iskustva i znanja od značaja za prekogranične / regionalne sisteme vodosnabdevanja i vodne resurse. Predviđena je razmena informacija i podataka zainteresovanih strana, državnih institucija, naučno-istraživačkih organizacija, i drugo.

Informacije i odgovori prikupljeni tokom nacionalnih radionica, u svih 8 zemalja, predstavljaju veoma važne ulazne podatke i doprinose u velikoj meri uspešnoj realizaciji DRINKADRIA projekta.

Ime:	RADOICA
Prezime:	STEFANOVIĆ
Institucija/ Organizacija: (Ukoliko želite da ostanete anonimni, niste u obavezi da popunite ovaj deo)	JKP "VODOVOD I KANALIZACIJA" NOVI SAD
Delokrug rada Vaše institucije/ organizacije:	
<input checked="" type="checkbox"/> Javno komunalno preduzeće <input type="checkbox"/> Institucije: <input type="checkbox"/> lokalna <input type="checkbox"/> regionalna <input type="checkbox"/> nacionalna <input type="checkbox"/> Istraživačka organizacija <input type="checkbox"/> Udruženje vodovoda <input type="checkbox"/> ostalo (molimo naznačite):	
Vaše radne aktivnosti se uglavnom odnose na:	
<input checked="" type="checkbox"/> vodosnabdevanje <input type="checkbox"/> zaštitu voda <input type="checkbox"/> obrazovanje/istraživanje <input type="checkbox"/> međunarodna saradnja <input type="checkbox"/> finansije/zakonodavstvo <input type="checkbox"/> ostalo, navedite:	
Vaše aktivnosti se, u prostornom smislu, najviše odnose na sledeći nivo: (Molimo Vas da koristite procentualnu procenu tako da ukupan zbir bude 100%) Primer : lokalni nivo -55%, nacionalni -25%, ostalo - 20%	
lokalni <u>95</u> %, regionalni <u>5</u> %, nacionalni <u> </u> %, međunarodni <u> </u> %, ostalo(molimo Vas navedite) : <u> </u> %,	
Koji su trenutno najveći problemi i otvorena pitanja vezano za upravljanje sistemima za vodosnabdevanje? (Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema/otvorena pitanja)	
2 <input type="checkbox"/> Gubici 1 <input type="checkbox"/> Količina 3 <input type="checkbox"/> Kvalitet 4 <input type="checkbox"/> Cena vode <input type="checkbox"/> Zakonodavni/ strateški okvir <input type="checkbox"/> Nedostatak finansijskih sredstava 5 <input type="checkbox"/> Infrastruktura <input type="checkbox"/> Kapaciteti : <input type="checkbox"/> institucionalni <input type="checkbox"/> tehnički 5 <input type="checkbox"/> ljudski <input type="checkbox"/> Klimatske promene <input type="checkbox"/> Nedovoljna saradnja <input type="checkbox"/> ostalo(navedite):	

Molimo Vas rangirajte sledeće koje detaljnije opisuju prethodno navedene probleme/otvorena pitanja :
(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

GUBICI

- 3 ☐ neovlašćena potrošnja 2 ☐ greške u merenju 1 ☐ procurivanje u distributivnoj mreži
4 ☐ curenje u vodovodnim objektima ☐ ostalo(navedite)

KOLIČINA

- 3 ☐ porast potrošnje 1 ☐ sezonske varijacije 2 ☐ zapremina rezervoarskog prostora
☐ promene namene i koršćenja zemljišta ☐ velika potrošnja ostalih sektora (poljoprivreda, industrija, itd)
☐ klimatske promene ☐ ostalo(navedite)

KVALITET

- 3 ☐ tačkasti izvori zagađenja 2 ☐ rasuti izvori zagađenja 1 ☐ problemi vezani za izvorišta
☐ promene namene i koršćenja zemljišta ☐ sezonske varijacije ☐ klimatske promene
☐ ostalo(navedite)

ORGANIČENJA U VODOSNABDEVANJU

- 3 ☐ neadekvatna mreža ☐ kapacitet crpnih stanica 2 ☐ nedovoljno rezervoara
☐ slabo održavanje distributivne mreže i sistema 1 ☐ dotrajalost
☐ ostalo(navedite)

Po vašem mišljenju, koja su najveća ograničenja u vezi vodosnabdevanja u bliskoj budućnosti (narednih 25 - 30 godina)?

(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- 4 ☐ gubici 1 ☐ količina 2 ☐ kvalitet 3 ☐ cena vode ☐ zakonodavni i strateški okvir
☐ nedostatak finansijskih sredstava ☐ infrastruktura ☐ Kapaciteti: ☐ institucionalni ☐ tehnički ☐ ljudski
☐ ostalo(navedite): 5

Molimo Vas rangirajte po značaju aktivnosti i korake koji mogu poboljšati vodosnabdevanje u odnosu na prethodno pomenute probleme i otvorena pitanja?

(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- 3 ☐ Više informacija o uticaju klimatskih promena na vodne resurse i budući razvoj/planiranje;
☐ Bolje razumevanje neizvesnosti u vezi klimatskih promena i njihovog uticaja na mere adaptacije;
☐ Više informacija o budućoj raspoloživosti vodnih resursa i planiranju/razvoju;
1 ☐ Poboľjšano znanje o načinu korišćenju zemljišta i zonama sanitarne zaštite;
2 ☐ Više informacija o sigurnosti vodosnabdevanja u budućnosti;
4 ☐ Poboľjšanje upravljanja prekograničnim / regionalnim sistemima vodosnabdevanja;
☐ Razvoj zajedničkog protokola za prekogranične / regionalne sisteme vodosnabdevanja;
☐ Implementacija prioriternih mera radi efikasnijeg upravljanja vodnim resursima i sistemima za vodosnabdevanje;
☐ Smanjenje gubitaka i kontinuirani monitoring procurivanja;
☐ Primena savremenih metodologija za kontinuirani monitoring: curenja, kvaliteta vode, rada pumpi, itd;
☐ Razvoj web stranice koja će unaprediti saradnju, razmenu i transfer znanja, koji se odnose na probleme u vodosnabdevanju i upravljanju vodnim resursima;
☐ Ostalo(navedite):

Da li smatrate da je neke probleme/otvorena pitanja od opšteg interesa/ multidisciplinarna (cross-cutting) moguće rešiti:

(Molimo Vas rangirajte ih na sledeći način: **1 najveći**, **5 najmanji** rang, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- 3
4
5
2
1
- ☐ Strateški pristup koji će rešiti većinu problema / otvorenih pitanja
 - ☐ Individualne strategije i smernice razvoja koje će se baviti većinom pitanja
 - ☐ Unapređenje saradnje među sektorima
 - ☐ Bolja saradnja institucija na lokalnom i nacionalnom nivou
 - ☐ Više finansijskih sredstava
 - ☐ Cena vode
 - ☐ Ostalo (navedite):

Koja su 3 najznačajnija aktera / aktivnosti za poboljšanje upravljanja sistemima za vodosnabdevanje i vodnim resursima?

RUKOVOĐSTVO VODOVODA

Koje su aktivnosti koje Vaša institucija / organizacija može sprovesti radi poboljšanja upravljanja sistemima za vodosnabdevanje i vodnim resursima i doprineti njihovoj održivosti?

SMANJENJE GUBITAKA
ULAGANJE U REKONSTRUKCIJU MREŽE
ULAGANJE U PROŠIRENJE IZVORIŠTA

Da li smatrate da samo aktivnosti i mere na državnom nivou doprinose poboljšanju vodosnabdevanja?

☐ Da ☒ Ne

Ukoliko je odgovor "Ne", molimo Vas navedite ostale institucionalne nivoe od značaja:

LOKALNA SAMOUPRAVA
VODOVODI

U kojoj meri ste upoznati sa ulogom i aktivnostima bilateralnih komisija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima?

☐ Potpuno ☐ Umereno ☒ Nedovoljno

U kojoj meri ste upoznati sa ulogom i aktivnostima lokalnih institucija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje?

☐ Potpuno ☒ Umereno ☐ Nedovoljno

Da li postoji zakonodavni okvir (sporazumi, ugovori, Memorandum o razumevanju, i drugo) koji su značajni za prekogranično / regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima u Srbiji sa kojima ste Vi upoznati?

☐ Da ☒ Ne

Ukoliko je odgovor "Da", molimo Vas navedite naziv:

U kojoj meri ste upoznati sa problemima/otvorenim pitanjima i ograničenjima koja se odnose na prekogranične/regionalne vodne resurse?

☐ Potpuno ☐ Umereno ☒ Nedovoljno

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Stepen implementacije planova upravljanja prekograničnim slivovima:

☐ Završena ☐ U toku ☒ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Stepen implementacije planova upravljanja vodama na teritoriji Republike Srbije:

☐ Završena ☒ U toku ☐ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Koje su, po vašem mišljenju, najvažnije teme o kojima bi želeli da dobijete više informacija u vezano za prekogranično/regionalno upravljanje vodama i vodnim resursima ?

Da li smatrate da je ovaj tip radionica/okruglih stolova koristan:

☒ Da ☐ Ne ☐ Nemam stav

Dodatni komentari:



**Saradnja radi poboljšanja vodosnabdevanja
na području Jadranskog sliva**



**UPITNIK O UPRAVLJANJU PREKOGRANIČNIM / REGIONALNIM
SISTEMIMA ZA VODOSNABDEVANJE I VODNIM RESURSIMA**

Aktivnosti koje se odnose na kapitalizaciju i održivost projekta su važna komponenta koja će poslužiti kao okvir za razmenu bitnih iskustva i znanja od značaja za prekogranične / regionalne sisteme vodosnabdevanja i vodne resurse. Predviđena je razmena informacija i podataka zainteresovanih strana, državnih institucija, naučno-istraživačkih organizacija, i drugo.

Informacije i odgovori prikupljeni tokom nacionalnih radionica, u svih 8 zemalja, predstavljaju veoma važne ulazne podatke i doprinose u velikoj meri uspešnoj realizaciji DRINKADRIA projekta.

Ime: Prezime: Institucija/ Organizacija: (Ukoliko želite da ostanete anonimni, niste u obavezi da popunite ovaj deo)	
Delokrug rada Vaše institucije/ organizacije: <input checked="" type="checkbox"/> Javno komunalno preduzeće <input type="checkbox"/> Institucije: <input type="checkbox"/> lokalna <input type="checkbox"/> regionalna <input type="checkbox"/> nacionalna <input type="checkbox"/> Istraživačka organizacija <input type="checkbox"/> Udruženje vodovoda <input type="checkbox"/> ostalo (molimo naznačite):	
Vaše radne aktivnosti se uglavnom odnose na: <input checked="" type="checkbox"/> vodosnabdevanje <input type="checkbox"/> zaštitu voda <input type="checkbox"/> obrazovanje/istraživanje <input type="checkbox"/> međunarodna saradnja <input type="checkbox"/> finansije/zakonodavstvo <input type="checkbox"/> ostalo, navedite:	
Vaše aktivnosti se, u prostom smislu, najviše odnose na sledeći nivo: (Molimo Vas da koristite procentualnu procenu tako da ukupan zbir bude 100%) Primer : lokalni nivo -55%, nacionalni -25%, ostalo - 20% lokalni <u>60</u> %, regionalni <u> </u> %, nacionalni <u>20</u> %, međunarodni <u>10</u> %, ostalo(molimo Vas navedite) : <u>10</u> %	
Koji su trenutno najveći problemi i otvorena pitanja vezano za upravljanje sistemima za vodosnabdevanje? (Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema/otvorena pitanja) <input checked="" type="checkbox"/> Gubici <input type="checkbox"/> Količina <input type="checkbox"/> Kvalitet <input checked="" type="checkbox"/> Cena vode <input type="checkbox"/> Zakonodavni/ strateški okvir <input type="checkbox"/> Nedostatak finansijskih sredstava <input checked="" type="checkbox"/> Infrastruktura <input checked="" type="checkbox"/> Kapaciteti : <input type="checkbox"/> institucionalni <input type="checkbox"/> tehnički <input type="checkbox"/> ljudski <input type="checkbox"/> Klimatske promene <input checked="" type="checkbox"/> Nedovoljna saradnja <input type="checkbox"/> ostalo(navedite):	

Molimo Vas rangirajte sledeće koje detaljnije opisuje prethodno navedene probleme/otvorena pitanja :
(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

GUBICI

- ☒ neovlašćena potrošnja ☒ greške u merenju ☒ procurivanje u distributivnoj mreži
☒ curenje u vodovodnim objektima ☐ ostalo(navedite)

KOLIČINA

- ☒ porast potrošnje ☒ sezonske varijacije ☒ zapremina rezervoarskog prostora
☒ promene namene i koršćenja zemljišta ☒ velika potrošnja ostalih sektora (poljoprivreda, industrija, itd)
☒ klimatske promene ☐ ostalo(navedite)

KVALITET

- ☐ tačkasti izvori zagađenja ☐ rasuti izvori zagađenja ☐ problemi vezani za izvorišta
☐ promene namene i koršćenja zemljišta ☐ sezonske varijacije ☐ klimatske promene
☐ ostalo(navedite)

ORGANIČENJA U VODOSNABDEVANJU

- ☒ neadekvatna mreža ☒ kapacitet crpnih stanica ☒ nedovoljno rezervoara
☒ slabo održavanje distributivne mreže i sistema ☒ dotrajalost
☐ ostalo(navedite)

Po vašem mišljenju, koja su najveća ograničenja u vezi vodosnabdevanja u bliskoj budućnosti (narednih 25 - 30 godina)?

(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- ☒ gubici ☒ količina ☒ kvalitet ☒ cena vode ☐ zakonodavni i strateški okvir
☐ nedostatak finansijskih sredstava ☒ infrastruktura ☐ Kapaciteti: ☒ institucionalni ☒ tehnički ☒ ljudski
☐ ostalo(navedite):

Molimo Vas rangirajte po značaju aktivnosti i korake koji mogu poboljšati vodosnabdevanje u odnosu na prethodno pomenute probleme i otvorena pitanja?

(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- ☒ Više informacija o uticaju klimatskih promena na vodne resurse i budući razvoj/planiranje;
☒ Bolje razumevanje neizvesnosti u vezi klimatskih promena i njihovog uticaja na mere adaptacije;
☒ Više informacija o budućoj raspoloživosti vodnih resursa i planiranju/razvoju;
☒ Poboljšano znanje o načinu korišćenju zemljišta i zonama sanitarne zaštite;
☐ Više informacija o sigurnosti vodosnabdevanja u budućnosti;
☐ Poboljšanje upravljanja prekograničnim / regionalnim sistemima vodosnabdevanja;
☐ Razvoj zajedničkog protokola za prekogranične / regionalne sisteme vodosnabdevanja;
☐ Implementacija prioritarnih mera radi efikasnijeg upravljanja vodnim resursima i sistemima za vodosnabdevanje;
☒ Smanjenje gubitaka i kontinuirani monitoring procurivanja;
☒ Primena savremenih metodologija za kontinuirani monitoring: curenja, kvaliteta vode, rada pumpi, itd;
☐ Razvoj web stranice koja će unaprediti saradnju, razmenu i transfer znanja, koji se odnose na probleme u vodosnabdevanju i upravljanju vodnim resursima;
☐ Ostalo(navedite):

Da li smatrate da je neke probleme/otvorena pitanja od opšteg interesa/ multidisciplinarna (*cross-cutting*) moguće rešiti:

(Molimo Vas rangirajte ih na sledeći način: **1 najveći**, **5 najmanji** rang, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- ☐ Strateški pristup koji će rešiti većinu problema / otvorenih pitanja
- ☐ Individualne strategije i smernice razvoja koje će se baviti većinom pitanja
- ☐ Unapređenje saradnje među sektorima
- ☐ Bolja saradnja institucija na lokalnom i nacionalnom nivou
- ☐ Više finansijskih sredstava
- ☐ Cena vode
- ☐ Ostalo (navedite):

Koja su 3 najznačajnija aktera / aktivnosti za poboljšanje upravljanja sistemima za vodosnabdevanje i vodnim resursima?

Koje su aktivnosti koje Vaša institucija / organizacija može sprovesti radi poboljšanja upravljanja sistemima za vodosnabdevanje i vodnim resursima i doprineti njihovoj održivosti?

Da li smatrate da samo aktivnosti i mere na državnom nivou doprinose poboljšanju vodosnabdevanja?

☐ Da ☒ Ne

Ukoliko je odgovor "Ne", molimo Vas navedite ostale institucionalne nivoe od značaja:

lokalna uprava,

U kojoj meri ste upoznati sa ulogom i aktivnostima bilateralnih komisija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima?

☐ Potpuno ☒ Umereno ☐ Nedovoljno

U kojoj meri ste upoznati sa ulogom i aktivnostima lokalnih institucija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje?

☐ Potpuno ☒ Umereno ☐ Nedovoljno

Da li postoji zakonodavni okvir (sporazumi, ugovori, Memorandum o razumevanju, i drugo) koji su značajni za prekogranično / regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima u Srbiji sa kojima ste Vi upoznati?

☐ Da ☐ Ne

Ukoliko je odgovor "Da", molimo Vas navedite naziv:

U kojoj meri ste upoznati sa problemima/otvorenim pitanjima i ograničenjima koja se odnose na prekogranične/regionalne vodne resurse?

☐ Potpuno ☐ Umereno ☐ Nedovoljno

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Stepen implementacije planova upravljanja prekograničnim slivovima:

☐ Završena ☐ U toku ☐ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Stepen implementacije planova upravljanja vodama na teritoriji Republike Srbije:

☐ Završena ☐ U toku ☐ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Koje su, po vašem mišljenju, najvažnije teme o kojima bi želeli da dobijete više informacija u vezano za prekogranično/regionalno upravljanje vodama i vodnim resursima ?

Da li smatrate da je ovaj tip radionica/okruglih stolova koristan:

☒ Da ☐ Ne ☐ Nemam stav

Dodatni komentari:



Saradnja radi poboljšanja vodosnabdevanja
na području Jadranskog sliva



UPITNIK O UPRAVLJANJU PREKOGRANIČNIM / REGIONALNIM
SISTEMIMA ZA VODOSNABDEVANJE I VODNIM RESURSIMA

Aktivnosti koje se odnose na kapitalizaciju i održivost projekta su važna komponenta koja će poslužiti kao okvir za razmenu bitnih iskustva i znanja od značaja za prekogranične / regionalne sisteme vodosnabdevanja i vodne resurse. Predviđena je razmena informacija i podataka zainteresovanih strana, državnih institucija, naučno-istraživačkih organizacija, i drugo.

Informacije i odgovori prikupljeni tokom nacionalnih radionica, u svih 8 zemalja, predstavljaju veoma važne ulazne podatke i doprinose u velikoj meri uspešnoj realizaciji DRINKADRIA projekta.

Ime: Prezime: Institucija/ Organizacija: (Ukoliko želite da ostanete anonimni, niste u obavezi da popunite ovaj deo)	<u>DRAGAN</u> <u>DOŠEN</u> <u>JKP "Vodovod i kapitalizacija" INĐIJA</u>
Delokrug rada Vaše institucije/ organizacije: <input checked="" type="checkbox"/> Javno komunalno preduzeće <input type="checkbox"/> Institucije: <input type="checkbox"/> lokalna <input type="checkbox"/> regionalna <input type="checkbox"/> nacionalna <input type="checkbox"/> Istraživačka organizacija <input type="checkbox"/> Udruženje vodovoda <input type="checkbox"/> ostalo (molimo naznačite):	
Vaše radne aktivnosti se uglavnom odnose na: <input checked="" type="checkbox"/> vodosnabdevanje <input type="checkbox"/> zaštitu voda <input type="checkbox"/> obrazovanje/istraživanje <input type="checkbox"/> međunarodna saradnja <input type="checkbox"/> finansije/zakonodavstvo <input type="checkbox"/> ostalo, navedite:	
Vaše aktivnosti se, u prostornom smislu, najviše odnose na sledeći nivo: (Molimo Vas da koristite procentualnu procenu tako da ukupan zbir bude 100%) Primer : lokalni nivo -55%. nacionalni -25%, ostalo - 20% lokalni <u>100</u> %, regionalni _ %, nacionalni _ %, međunarodni _ %, ostalo(molimo Vas navedite) : _____, %	
Koji su trenutno najveći problemi i otvorena pitanja vezano za upravljanje sistemima za vodosnabdevanje? (Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema/otvorena pitanja) <input checked="" type="checkbox"/> Gubici <input checked="" type="checkbox"/> Količina <input checked="" type="checkbox"/> Kvalitet <input checked="" type="checkbox"/> Cena vode <input type="checkbox"/> Zakonodavni/ strateški okvir <input type="checkbox"/> Nedostatak finansijskih sredstava <input type="checkbox"/> Infrastruktura <input type="checkbox"/> Kapaciteti : <input type="checkbox"/> institucionalni <input checked="" type="checkbox"/> tehnički <input type="checkbox"/> ljudski <input type="checkbox"/> Klimatske promene <input type="checkbox"/> Nedovoljna saradnja <input type="checkbox"/> ostalo(navedite):	

Molimo Vas rangirajte sledeće koje detaljnije opisuju prethodno navedene probleme/otvorena pitanja :
(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

GUBICI

- ☒ neovlašćena potrošnja ☒ greške u merenju 1 ☒ procurivanje u distributivnoj mreži
☒ curenje u vodovodnim objektima ☐ ostalo(navedite)

KOLIČINA

- ☒ porast potrošnje ☒ sezonske varijacije ☒ zapremina rezervoarskog prostora
☐ promene namene i koršćenja zemljišta ☒ velika potrošnja ostalih sektora (poljoprivreda, industrija, itd)
☒ klimatske promene ☐ ostalo(navedite)

KVALITET

- ☐ tačkasti izvori zagađenja ☐ rasuti izvori zagađenja ☒ problemi vezani za izvorišta
☒ promene namene i koršćenja zemljišta ☒ sezonske varijacije ☒ klimatske promene
☐ ostalo(navedite)

ORGANIČENJA U VODOSNABDEVANJU

- ☐ neadekvatna mreža ☐ kapacitet crpnih stanica 2 ☐ nedovoljno rezervoara
☐ slabo održavanje distributivne mreže i sistema 3 ☐ dotrajalost
☒ ostalo(navedite) - NEODOVOLJAN KAPACITET IZVORIŠTA

Po vašem mišljenju, koja su najveća ograničenja u vezi vodosnabdevanja u bliskoj budućnosti (narednih 25 - 30 godina)?

(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- ☒ gubici ☒ količina ☒ kvalitet ☒ cena vode ☐ zakonodavni i strateški okvir
☒ nedostatak finansijskih sredstava ☐ infrastruktura ☐ Kapaciteti: ☐ institucionalni ☐ tehnički ☐ ljudski
☐ ostalo(navedite):

Molimo Vas rangirajte po značaju aktivnosti i korake koji mogu poboljšati vodosnabdevanje u odnosu na prethodno pomenute probleme i otvorena pitanja?

(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- ☐ Više informacija o uticaju klimatskih promena na vodne resurse i budući razvoj/planiranje;
☐ Bolje razumevanje neizvesnosti u vezi klimatskih promena i njihovog uticaja na mere adaptacije;
5 ☒ Više informacija o budućoj raspoloživosti vodnih resursa i planiranju/razvoju;
☒ Poboľjšano znanje o načinu korišćenju zemljišta i zonama sanitarne zaštite;
4 ☒ Više informacija o sigurnosti vodosnabdevanja u budućnosti;
☐ Poboľjšanje upravljanja prekograničnim / regionalnim sistemima vodosnabdevanja;
☐ Razvoj zajedničkog protokola za prekogranične / regionalne sisteme vodosnabdevanja;
3 ☐ Implementacija prioritetnih mera radi efikasnijeg upravljanja vodnim resursima i sistemima za vodosnabdevanje;
1 ☒ Smanjenje gubitaka i kontinuirani monitoring procurivanja;
2 ☐ Primena savremenih metodologija za kontinuirani monitoring: curenja, kvaliteta vode, rada pumpi, itd;
☐ Razvoj web stranice koja će unaprediti saradnju, razmenu i transfer znanja, koji se odnose na probleme u vodosnabdevanju i upravljanju vodnim resursima;
☐ Ostalo(navedite):

Da li smatrate da je neke probleme/otvorena pitanja od opšteg interesa/ multidisciplinarna (*cross-cutting*) moguće rešiti:

(Molimo Vas rangirajte ih na sledeći način: **1 najveći**, **5 najmanji** rang, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- 3 ☒ Strateški pristup koji će rešiti većinu problema / otvorenih pitanja
☐ Individualne strategije i smernice razvoja koje će se baviti većinom pitanja
☐ Unapređenje saradnje među sektorima
4 ☒ Bolja saradnja institucija na lokalnom i nacionalnom nivou
1 ☒ Više finansijskih sredstava
2 ☒ Cena vode
☐ Ostalo (navedite):

Koja su 3 najznačajnija aktera / aktivnosti za poboljšanje upravljanja sistemima za vodosnabdevanje i vodnim resursima?

Koje su aktivnosti koje Vaša institucija / organizacija može sprovesti radi poboljšanja upravljanja sistemima za vodosnabdevanje i vodnim resursima i doprineti njihovoj održivosti?

Da li smatrate da samo aktivnosti i mere na državnom nivou doprinose poboljšanju vodosnabdevanja?
☐ Da ☒ Ne

Ukoliko je odgovor "Ne", molimo Vas navedite ostale institucionalne nivoe od značaja:

U kojoj meri ste upoznati sa ulogom i aktivnostima bilateralnih komisija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima?

☐ Potpuno ☐ Umereno ☒ Nedovoljno

U kojoj meri ste upoznati sa ulogom i aktivnostima lokalnih institucija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje?

☐ Potpuno ☒ Umereno ☐ Nedovoljno

Da li postoji zakonodavni okvir (sporazumi, ugovori, Memorandum o razumevanju, i drugo) koji su značajni za prekogranično / regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima u Srbiji sa kojima ste Vi upoznati?

☐ Da ☒ Ne

Ukoliko je odgovor "Da", molimo Vas navedite naziv:

U kojoj meri ste upoznati sa problemima/otvorenim pitanjima i ograničenjima koja se odnose na prekogranične/regionalne vodne resurse?

☐ Potpuno ☒ Umereno ☐ Nedovoljno

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Stepen implementacije planova upravljanja prekograničnim slivovima:

☐ Završena ☐ U toku ☐ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Stepen implementacije planova upravljanja vodama na teritoriji Republike Srbije:

☐ Završena ☐ U toku ☐ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Koje su, po vašem mišljenju, najvažnije teme o kojima bi želeli da dobijete više informacija u vezano za prekogranično/regionalno upravljanje vodama i vodnim resursima ?

Da li smatrate da je ovaj tip radionica/okruglih stolova koristan:

☒ Da ☐ Ne ☐ Nemam stav

Dodatni komentari:



**Saradnja radi poboljšanja vodosnabdevanja
na području Jadranskog sliva**



**UPITNIK O UPRAVLJANJU PREKOGRANIČNIM / REGIONALNIM
SISTEMIMA ZA VODOSNABDEVANJE I VODNIM RESURSIMA**

Aktivnosti koje se odnose na kapitalizaciju i održivost projekta su važna komponenta koja će poslužiti kao okvir za razmenu bitnih iskustva i znanja od značaja za prekogranične / regionalne sisteme vodosnabdevanja i vodne resurse. Predviđena je razmena informacija i podataka zainteresovanih strana, državnih institucija, naučno-istraživačkih organizacija, i drugo.

Informacije i odgovori prikupljeni tokom nacionalnih radionica, u svih 8 zemalja, predstavljaju veoma važne ulazne podatke i doprinose u velikoj meri uspešnoj realizaciji DRINKADRIA projekta.

Ime:	VIŠESLAV
Prezime:	LUKIĆ
Institucija/ Organizacija: (Ukoliko želite da ostanete anonimni, niste u obavezi da popunite ovaj deo)	JKP VODOVOD KRŠEVAC - KRŠEVAC

Delokrug rada Vaše institucije/ organizacije:

☒ Javno komunalno preduzeće ☐ Institucije: ☐ lokalna ☐ regionalna ☐ nacionalna
☐ Istraživačka organizacija ☐ Udruženje vodovoda ☐ ostalo (molimo naznačite):

Vaše radne aktivnosti se uglavnom odnose na:

☒ vodosnabdevanje ☐ zaštitu voda ☐ obrazovanje/istraživanje
☐ međunarodna saradnja ☐ finansije/zakonodavstvo ☐ ostalo, navedite:

Vaše aktivnosti se, u prostornom smislu, najviše odnose na sledeći nivo:
(Molimo Vas da koristite procentualnu procenu tako da ukupan zbir bude 100%)
Primer : lokalni nivo -55%, nacionalni -25%, ostalo - 20%

lokalni 80%, regionalni 20%, nacionalni %, međunarodni %, ostalo(molimo Vas navedite) : %,

Koji su trenutno najveći problemi i otvorena pitanja vezano za upravljanje sistemima za vodosnabdevanje?
(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema/otvorena pitanja)

1 ☒ Gubici ☐ Količina ☐ Kvalitet 1 ☒ Cena vode

☐ Zakonodavni/ strateški okvir ☐ Nedostatak finansijskih sredstava ☐ Infrastruktura

☐ Kapaciteti : ☐ institucionalni 3 ☒ tehnički 4 ☒ ljudski

☐ Klimatske promene ☐ Nedovoljna saradnja

2 ostalo(navedite): PREZAPOSLEDJENOST (POLIT. ZAPOSLEDJAVANJE) - ODHODNO ZAPOSLEDJAVANJE NEOTPRISTOG KAPRA.

Molimo Vas rangirajte sledeće koje detaljnije opisuju prethodno navedene probleme/otvorena pitanja :
(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

GUBICI

- ☒ neovlašćena potrošnja ☐ greške u merenju ☒ procurivanje u distributivnoj mreži
☒ curenje u vodovodnim objektima ☒ ostalo(navedite) **NEODVOLJKO "MEREHJA"**

KOLIČINA

- ☐ porast potrošnje ☒ sezone varijacije ☒ zapremina rezervoarskog prostora
☐ promene namene i koršćenja zemljišta ☐ velika potrošnja ostalih sektora (poljoprivreda, industrija, itd)
☒ klimatske promene ☒ ostalo(navedite) **PAD POTROŠNJE**

KVALITET

- ☐ tačkasti izvori zagađenja ☐ rasuti izvori zagađenja ☐ problemi vezani za izvorišta
☐ promene namene i koršćenja zemljišta ☐ sezone varijacije ☐ klimatske promene
☐ ostalo(navedite)

ORGANIČENJA U VODOSNABDEVANJU

- ☒ neadekvatna mreža ☐ kapacitet crpnih stanica ☐ nedovoljno rezervoara
☒ slabo održavanje distributivne mreže i sistema ☒ dotrajalogost
☒ ostalo(navedite) **(NEADEKVATNO UPRAVLJANJE MREŽOM)**

Po vašem mišljenju, koja su najveća ograničenja u vezi vodosnabdevanja u bliskoj budućnosti (narednih 25 - 30 godina)?

(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- ☒ gubici ☒ količina ☒ kvalitet ☐ cena vode ☐ zakonodavni i strateški okvir
☒ nedostatak finansijskih sredstava ☐ infrastruktura ☐ Kapaciteti: ☐ institucionalni ☒ tehnički ☒ ljudski
☐ ostalo(navedite):

Molimo Vas rangirajte po značaju aktivnosti i korake koji mogu poboljšati vodosnabdevanje u odnosu na prethodno pomenute probleme i otvorena pitanja?

(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- ☐ Više informacija o uticaju klimatskih promena na vodne resurse i budući razvoj/planiranje;
☐ Bolje razumevanje neizvesnosti u vezi klimatskih promena i njihovog uticaja na mere adaptacije;
☒ Više informacija o budućoj raspoloživosti vodnih resursa i planiranju/razvoju;
☒ Poboljšano znanje o načinu korišćenju zemljišta i zonama sanitarne zaštite;
☐ Više informacija o sigurnosti vodosnabdevanja u budućnosti;
☐ Poboljšanje upravljanja prekograničnim / regionalnim sistemima vodosnabdevanja;
☒ Razvoj zajedničkog protokola za prekogranične / regionalne sisteme vodosnabdevanja;
☒ Implementacija prioriternih mera radi efikasnijeg upravljanja vodnim resursima i sistemima za vodosnabdevanje;
☒ Smanjenje gubitaka i kontinuirani monitoring procurivanja;
☒ Primena savremenih metodologija za kontinuirani monitoring: curenja, kvaliteta vode, rada pumpi, itd;
☐ Razvoj web stranice koja će unaprediti saradnju, razmenu i transfer znanja, koji se odnose na probleme u vodosnabdevanju i upravljanju vodnim resursima;
☐ Ostalo(navedite):

Da li smatrate da je neke probleme/otvorena pitanja od opšteg interesa/ multidisciplinarna (cross-cutting) moguće rešiti:

(Molimo Vas rangirajte ih na sledeći način: **1 najveći**, **5 najmanji** rang, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- ☒ 1 Strateški pristup koji će rešiti većinu problema / otvorenih pitanja
- ☒ 4 Individualne strategije i smernice razvoja koje će se baviti većinom pitanja
- ☒ 5 Unapređenje saradnje među sektorima
- ☒ 2 Bolja saradnja institucija na lokalnom i nacionalnom nivou
 - ☐ Više finansijskih sredstava
- ☒ 3 Cena vode
- ☐ Ostalo (navedite):

Koja su 3 najznačajnija aktera / aktivnosti za poboljšanje upravljanja sistemima za vodosnabdevanje i vodnim resursima?

- 1. PREPOZNAVANJE GUBITAKA
- 2. PREVENTIVNO ODRŽAVANJE
- 3. OBUKA KADROVA

Koje su aktivnosti koje Vaša institucija / organizacija može sprovesti radi poboljšanja upravljanja sistemima za vodosnabdevanje i vodnim resursima i doprineti njihovoj održivosti?

- 1. UVODENJE GIS-a
- 2. IZRADA NAT. MODELA
- 3. PREPOZNAVANJE GUBITAKA

Da li smatrate da samo aktivnosti i mere na državnom nivou doprinose poboljšanju vodosnabdevanja?

☐ Da ☒ Ne

Ukolko je odgovor "Ne", molimo Vas navedite ostale institucionalne nivoe od značaja:

U kojoj meri ste upoznati sa ulogom i aktivnostima bilateralnih komisija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima?

☐ Potpuno ☐ Umereno ☒ Nedovoljno

U kojoj meri ste upoznati sa ulogom i aktivnostima lokalnih institucija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje?

☐ Potpuno ☐ Umereno ☒ Nedovoljno

Da li postoji zakonodavni okvir (sporazumi, ugovori, Memorandum o razumevanju, i drugo) koji su značajni za prekogranično / regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima u Srbiji sa kojima ste Vi upoznati?

☐ Da ☒ Ne

Ukolko je odgovor "Da", molimo Vas navedite naziv:

U kojoj meri ste upoznati sa problemima/otvorenim pitanjima i ograničenjima koja se odnose na prekogranične/regionalne vodne resurse?

☐ Potpuno ☐ Umereno ☒ Nedovoljno

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Stepen implementacije planova upravljanja prekograničnim slivovima:

☐ Završena ☒ U toku ☐ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Stepen implementacije planova upravljanja vodama na teritoriji Republike Srbije:

☐ Završena ☒ U toku ☐ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Koje su, po vašem mišljenju, najvažnije teme o kojima bi želeli da dobijete više informacija u vezano za prekogranično/regionalno upravljanje vodama i vodnim resursima?

PRAVNA REGULATIVA (ZAKONI, PODZAKONISKA AKTA, ...)

Da li smatrate da je ovaj tip radionica/okruglih stolova koristan:

☒ Da ☐ Ne ☐ Nemam stav

Dodatni komentari:



Saradnja radi poboljšanja vodosnabdevanja
na području Jadranskog sliva



UPITNIK O UPRAVLJANJU PREKOGRANIČNIM / REGIONALNIM SISTEMIMA ZA VODOSNABDEVANJE I VODNIM RESURSIMA

Aktivnosti koje se odnose na kapitalizaciju i održivost projekta su važna komponenta koja će poslužiti kao okvir za razmenu bitnih iskustva i znanja od značaja za prekogranične / regionalne sisteme vodosnabdevanja i vodne resurse. Predviđena je razmena informacija i podataka zainteresovanih strana, državnih institucija, naučno-istraživačkih organizacija, i drugo.

Informacije i odgovori prikupljeni tokom nacionalnih radionica, u svih 8 zemalja, predstavljaju veoma važne ulazne podatke i doprinose u velikoj meri uspešnoj realizaciji DRINKADRIA projekta.

Ime:	VLADIMIR
Prezime:	LUKIĆ
Institucija/ Organizacija: (Ukoliko želite da ostanete anonimni, niste u obavezi da popunite ovaj deo)	INSTITUT „JAROSLAV ČERHI“
Delokrug rada Vaše institucije/ organizacije:	
<input type="checkbox"/> Javno komunalno preduzeće <input type="checkbox"/> Institucije: <input type="checkbox"/> lokalna <input type="checkbox"/> regionalna <input type="checkbox"/> nacionalna <input checked="" type="checkbox"/> Istraživačka organizacija <input type="checkbox"/> Udruženje vodovoda <input type="checkbox"/> ostalo (molimo naznačiti):	
Vaše radne aktivnosti se uglavnom odnose na:	
<input checked="" type="checkbox"/> vodosnabdevanje <input checked="" type="checkbox"/> zaštitu voda <input type="checkbox"/> obrazovanje/istraživanje <input type="checkbox"/> međunarodna saradnja <input type="checkbox"/> finansije/zakonodavstvo <input type="checkbox"/> ostalo, navedite:	
Vaše aktivnosti se, u prostornom smislu, najviše odnose na sledeći nivo: (Molimo Vas da koristite procentualnu procenu tako da ukupan zbir bude 100%) Primer : lokalni nivo -55%, nacionalni -25%, ostalo - 20%	
lokalni 10%, regionalni 10%, nacionalni 10%, međunarodni 10%, ostalo(molimo Vas navedite) : _____, %	
Koji su trenutno najveći problemi i otvorena pitanja vezano za upravljanje sistemima za vodosnabdevanje? (Molimo Vas rangirajte ih na sledeći način: 1 najveći, 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema/otvorena pitanja)	
<input checked="" type="checkbox"/> Gubici <input type="checkbox"/> Količina <input type="checkbox"/> Kvalitet <input checked="" type="checkbox"/> Cena vode <input checked="" type="checkbox"/> Zakonodavni/ strateški okvir <input checked="" type="checkbox"/> Nedostatak finansijskih sredstava <input type="checkbox"/> Infrastruktura <input type="checkbox"/> Kapaciteti : <input type="checkbox"/> institucionalni <input type="checkbox"/> tehnički <input checked="" type="checkbox"/> ljudski <input type="checkbox"/> Klimatske promene <input type="checkbox"/> Nedovoljna saradnja <input type="checkbox"/> ostalo(navedite):	

Molimo Vas rangirajte sledeće koje detaljnije opisuju prethodno navedene probleme/otvorena pitanja :
(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

GUBICI

- ☒ neovlašćena potrošnja ☐ greške u merenju ☒ procurivanje u distributivnoj mreži
☒ curenje u vodovodnim objektima ☐ ostalo(navedite)

KOLIČINA

- ☒ porast potrošnje ☒ sezonske varijacije ☐ zapremina rezervoarskog prostora
☒ promene namene i korišćenja zemljišta ☒ velika potrošnja ostalih sektora (poljoprivreda, industrija, itd)
☒ klimatske promene ☐ ostalo(navedite)

KVALITET

- ☒ tačkasti izvori zagađenja ☒ rasuti izvori zagađenja ☒ problemi vezani za izvorišta
☒ promene namene i korišćenja zemljišta ☒ sezonske varijacije ☐ klimatske promene
☐ ostalo(navedite)

ORGANIČENJA U VODOSNABDEVANJU

- ☒ neadekvatna mreža ☒ kapacitet crpnih stanica ☒ nedovoljno rezervoara
☒ slabo održavanje distributivne mreže i sistema ☒ dotrajalost
☐ ostalo(navedite)

Po vašem mišljenju, koja su najveća ograničenja u vezi vodosnabdevanja u bliskoj budućnosti (narednih 25 - 30 godina)?

(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- ☐ gubici ☒ količina ☒ kvalitet ☒ cena vode ☒ zakonodavni i strateški okvir
☒ nedostatak finansijskih sredstava ☐ infrastruktura ☐ Kapaciteti: ☐ institucionalni ☐ tehnički ☐ ljudski
☐ ostalo(navedite):

Molimo Vas rangirajte po značaju aktivnosti i korake koji mogu poboljšati vodosnabdevanje u odnosu na prethodno pomenute probleme i otvorena pitanja?

(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- ☒ Više informacija o uticaju klimatskih promena na vodne resurse i budući razvoj/planiranje;
☐ Bolje razumevanje neizvesnosti u vezi klimatskih promena i njihovog uticaja na mere adaptacije;
☒ Više informacija o budućoj raspoloživosti vodnih resursa i planiranju/razvoju;
☒ Poboľšano znanje o načinu korišćenju zemljišta i zonama sanitarne zaštite;
☒ Više informacija o sigurnosti vodosnabdevanja u budućnosti;
☐ Poboľšanje upravljanja prekograničnim / regionalnim sistemima vodosnabdevanja;
☐ Razvoj zajedničkog protokola za prekogranične / regionalne sisteme vodosnabdevanja;
☐ Implementacija prioriternih mera radi efikasnijeg upravljanja vodnim resursima i sistemima za vodosnabdevanje;
☒ Smanjenje gubitaka i kontinuirani monitoring procurivanja;
☐ Primena savremenih metodologija za kontinuirani monitoring: curenja, kvaliteta vode, rada pumpi, itd;
☐ Razvoj web stranice koja će unaprediti saradnju, razmenu i transfer znanja, koji se odnose na probleme u vodosnabdevanju i upravljanju vodnim resursima;
☐ Ostalo(navedite):

Da li smatrate da je neke probleme/otvorena pitanja od opšteg interesa/ multidisciplinarna (*cross-cutting*) moguće rešiti:

(Molimo Vas rangirajte ih na sledeći način: **1 najveći**, **5 najmanji** rang, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- 3 ☐ Strateški pristup koji će rešiti većinu problema / otvorenih pitanja
4 ☐ Individualne strategije i smernice razvoja koje će se baviti većinom pitanja
4 ☐ Unapređenje saradnje među sektorima
2 ☐ Bolja saradnja institucija na lokalnom i nacionalnom nivou
2 ☐ Više finansijskih sredstava
1 ☐ Cena vode
1 ☐ Ostalo (navedite):

Koja su 3 najznačajnija aktera / aktivnosti za poboljšanje upravljanja sistemima za vodosnabdevanje i vodnim resursima?

Koje su aktivnosti koje Vaša institucija / organizacija može sprovesti radi poboljšanja upravljanja sistemima za vodosnabdevanje i vodnim resursima i doprineti njihovoj održivosti?

Da li smatrate da samo aktivnosti i mere na državnom nivou doprinose poboljšanju vodosnabdevanja?

☒ Da ☐ Ne

Ukoliko je odgovor "Ne", molimo Vas navedite ostale institucionalne nivoe od značaja:

U kojoj meri ste upoznati sa ulogom i aktivnostima bilateralnih komisija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima?

☒ Potpuno ☐ Umereno ☐ Nedovoljno

U kojoj meri ste upoznati sa ulogom i aktivnostima lokalnih institucija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje?

☒ Potpuno ☐ Umereno ☐ Nedovoljno

Da li postoji zakonodavni okvir (sporazumi, ugovori, Memorandum o razumevanju, i drugo) koji su značajni za prekogranično / regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima u Srbiji sa kojima ste Vi upoznati?

☒ Da ☐ Ne

Ukoliko je odgovor "Da", molimo Vas navedite naziv:

U kojoj meri ste upoznati sa problemima/otvorenim pitanjima i ograničenjima koja se odnose na prekogranične/regionalne vodne resurse?

☒ Potpuno ☐ Umereno ☐ Nedovoljno

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Stepen implementacije planova upravljanja prekograničnim slivovima:

☐ Završena ☒ U toku ☐ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Stepen implementacije planova upravljanja vodama na teritoriji Republike Srbije:

☐ Završena ☒ U toku ☐ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Koje su, po vašem mišljenju, najvažnije teme o kojima bi želeli da dobijete više informacija u vezano za prekogranično/regionalno upravljanje vodama i vodnim resursima ?

Da li smatrate da je ovaj tip radionica/okruglih stolova koristan:

☒ Da ☐ Ne ☐ Nemam stav

Dodatni komentari:



Saradnja radi poboljšanja vodosnabdevanja
na području Jadranskog sliva



UPITNIK O UPRAVLJANJU PREKOGRANIČNIM / REGIONALNIM
SISTEMIMA ZA VODOSNABDEVANJE I VODNIM RESURSIMA

Aktivnosti koje se odnose na kapitalizaciju i održivost projekta su važna komponenta koja će poslužiti kao okvir za razmenu bitnih iskustva i znanja od značaja za prekogranične / regionalne sisteme vodosnabdevanja i vodne resurse. Predviđena je razmena informacija i podataka zainteresovanih strana, državnih institucija, naučno-istraživačkih organizacija, i drugo.

Informacije i odgovori prikupljeni tokom nacionalnih radionica, u svih 8 zemalja, predstavljaju veoma važne ulazne podatke i doprinose u velikoj meri uspešnoj realizaciji DRINKADRIA projekta.

Ime:	
Prezime:	
Institucija/ Organizacija:	
(Ukoliko želite da ostanete anonimni, niste u obavezi da popunite ovaj deo)	
Delokrug rada Vaše institucije/ organizacije:	
<input type="checkbox"/> Javno komunalno preduzeće <input type="checkbox"/> Institucije: <input type="checkbox"/> lokalna <input type="checkbox"/> regionalna <input type="checkbox"/> nacionalna	
<input checked="" type="checkbox"/> Istraživačka organizacija <input type="checkbox"/> Udruženje vodovoda <input type="checkbox"/> ostalo (molimo naznačite):	
Vaše radne aktivnosti se uglavnom odnose na:	
<input type="checkbox"/> vodosnabdevanje <input checked="" type="checkbox"/> zaštitu voda <input type="checkbox"/> obrazovanje/istraživanje	
<input type="checkbox"/> međunarodna saradnja <input type="checkbox"/> finansije/zakonodavstvo <input type="checkbox"/> ostalo, navedite:	
Vaše aktivnosti se, u prostornom smislu, najviše odnose na sledeći nivo: (Molimo Vas da koristite procentualnu procenu tako da ukupan zbir bude 100%) Primer : lokalni nivo -55%, nacionalni -25%, ostalo - 20%	
lokalni 12%, regionalni _ %, nacionalni 10%, međunarodni 12%, ostalo(molimo Vas navedite) : _____, %	
Koji su trenutno najveći problemi i otvorena pitanja vezano za upravljanje sistemima za vodosnabdevanje? (Molimo Vas rangirajte ih na sledeći način: 1 najveći, 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema/otvorena pitanja)	
<input checked="" type="checkbox"/> Gubici <input checked="" type="checkbox"/> Količina <input checked="" type="checkbox"/> Kvalitet <input checked="" type="checkbox"/> Cena vode	
<input checked="" type="checkbox"/> Zakonodavni/ strateški okvir <input checked="" type="checkbox"/> Nedostatak finansijskih sredstava <input checked="" type="checkbox"/> Infrastruktura	
<input checked="" type="checkbox"/> Kapaciteti : <input type="checkbox"/> institucionalni <input type="checkbox"/> tehnički <input type="checkbox"/> ljudski	
<input checked="" type="checkbox"/> Klimatske promene <input checked="" type="checkbox"/> Nedovoljna saradnja	
<input type="checkbox"/> ostalo(navedite):	

Molimo Vas rangirajte sledeće koje detaljnije opisuje prethodno navedene probleme/otvorena pitanja :
(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

GUBICI

- ☒ neovlašćena potrošnja ☒ greške u merenju ☒ procurivanje u distributivnoj mreži
☒ curenje u vodovodnim objektima ☐ ostalo(navedite)

KOLIČINA

- ☒ porast potrošnje ☒ sezonske varijacije ☒ zapremina rezervoarskog prostora
☒ promene namene i koršćenja zemljišta ☒ velika potrošnja ostalih sektora (poljoprivreda, industrija, itd)
☒ klimatske promene ☐ ostalo(navedite)

KVALITET

- ☒ tačkasti izvori zagađenja ☒ rasuti izvori zagađenja ☒ problemi vezani za izvorišta
☒ promene namene i koršćenja zemljišta ☒ sezonske varijacije ☒ klimatske promene
☐ ostalo(navedite)

ORGANIČENJA U VODOSNABDEVANJU

- ☒ neadekvatna mreža ☒ kapacitet crpnih stanica ☒ nedovoljno rezervoara
☒ slabo održavanje distributivne mreže i sistema ☒ dotrajalost
☐ ostalo(navedite)

Po vašem mišljenju, koja su najveća ograničenja u vezi vodosnabdevanja u bliskoj budućnosti (narednih 25 - 30 godina)?

(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- ☒ gubici ☒ količina ☒ kvalitet ☒ cena vode ☒ zakonodavni i strateški okvir
☒ nedostatak finansijskih sredstava ☒ infrastruktura ☒ Kapaciteti: ☐ institucionalni ☐ tehnički ☐ ljudski
☐ ostalo(navedite):

Molimo Vas rangirajte po značaju aktivnosti i korake koji mogu poboljšati vodosnabdevanje u odnosu na prethodno pomenute probleme i otvorena pitanja?

(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- ☒ Više informacija o uticaju klimatskih promena na vodne resurse i budući razvoj/planiranje;
☒ Bolje razumevanje neizvesnosti u vezi klimatskih promena i njihovog uticaja na mere adaptacije;
☒ Više informacija o budućoj raspoloživosti vodnih resursa i planiranju/razvoju;
☒ Poboljšano znanje o načinu korišćenju zemljišta i zonama sanitarne zaštite;
☒ Više informacija o sigurnosti vodosnabdevanja u budućnosti;
☒ Poboljšanje upravljanja prekograničnim / regionalnim sistemima vodosnabdevanja;
☒ Razvoj zajedničkog protokola za prekogranične / regionalne sisteme vodosnabdevanja;
☒ Implementacija prioritarnih mera radi efikasnijeg upravljanja vodnim resursima i sistemima za vodosnabdevanje;
☒ Smanjenje gubitaka i kontinuirani monitoring procurivanja;
☒ Primena savremenih metodologija za kontinuirani monitoring: curenja, kvaliteta vode, rada pumpi, itd;
☒ Razvoj web stranice koja će unaprediti saradnju, razmenu i transfer znanja, koji se odnose na probleme u vodosnabdevanju i upravljanju vodnim resursima;
☐ Ostalo(navedite):

Da li smatrate da je neke probleme/otvorena pitanja od opšteg interesa/ multidisciplinarna (cross-cutting) moguće rešiti:

(Molimo Vas rangirajte ih na sledeći način: **1 najveći**, **5 najmanji** rang, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- ☐ Strateški pristup koji će rešiti većinu problema / otvorenih pitanja
☒ Individualne strategije i smernice razvoja koje će se baviti većinom pitanja
☒ Unapređenje saradnje među sektorima
☒ Bolja saradnja institucija na lokalnom i nacionalnom nivou
☒ Više finansijskih sredstava
☒ Cena vode
☐ Ostalo (navedite):

Koja su 3 najznačajnija aktera / aktivnosti za poboljšanje upravljanja sistemima za vodosnabdevanje i vodnim resursima?

ZAKONODAVSTVO
IMPLEMENTACIJA SAVREMENIH TEHNOLOGIJA
FINANSIRANJE

Koje su aktivnosti koje Vaša institucija / organizacija može sprovesti radi poboljšanja upravljanja sistemima za vodosnabdevanje i vodnim resursima i doprineti njihovoj održivosti?

SARADNJA SA LOCALNOM SAMOUPRAVOM
SARADNJA SA DRŽAVNIM INSTITUCIJAMA
IMPLEMENTACIJA SAVREMENIH TEHNIČKIH REŠENJA

Da li smatrate da samo aktivnosti i mere na državnom nivou doprinose poboljšanju vodosnabdevanja?

☐ Da ☒ Ne

Ukolko je odgovor "Ne", molimo Vas navedite ostale institucionalne nivoe od značaja:

U kojoj meri ste upoznati sa ulogom i aktivnostima bilateralnih komisija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima?

☐ Potpuno ☐ Umereno ☒ Nedovoljno

U kojoj meri ste upoznati sa ulogom i aktivnostima lokalnih institucija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje?

☐ Potpuno ☐ Umereno ☒ Nedovoljno

Da li postoji zakonodavni okvir (sporazumi, ugovori, Memorandum o razumevanju, i drugo) koji su značajni za prekogranično / regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima u Srbiji sa kojima ste Vi upoznati?

☒ Da ☐ Ne

Ukolko je odgovor "Da", molimo Vas navedite naziv:

ICPDR

U kojoj meri ste upoznati sa problemima/otvorenim pitanjima i ograničenjima koja se odnose na prekogranične/regionalne vodne resurse?

☐ Potpuno ☒ Umereno ☐ Nedovoljno

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Stepen implementacije planova upravljanja prekograničnim slivovima:

☐ Završena ☒ U toku ☐ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Stepen implementacije planova upravljanja vodama na teritoriji Republike Srbije:

☐ Završena ☒ U toku ☐ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Koje su, po vašem mišljenju, najvažnije teme o kojima bi želeli da dobijete više informacija u vezano za prekogranično/regionalno upravljanje vodama i vodnim resursima ?

NABAVNAJE ZA PREKOGRANIČNO ZAGRAĐIVANJE

Da li smatrate da je ovaj tip radionica/okruglih stolova koristan:

☒ Da ☐ Ne ☐ Nemam stav

Dodatni komentari:



**Saradnja radi poboljšanja vodosnabdevanja
na području Jadranskog sliva**



**UPITNIK O UPRAVLJANJU PREKOGRANIČNIM / REGIONALNIM
SISTEMIMA ZA VODOSNABDEVANJE I VODNIM RESURSIMA**

Aktivnosti koje se odnose na kapitalizaciju i održivost projekta su važna komponenta koja će poslužiti kao okvir za razmenu bitnih iskustva i znanja od značaja za prekogranične / regionalne sisteme vodosnabdevanja i vodne resurse. Predviđena je razmena informacija i podataka zainteresovanih strana, državnih institucija, naučno-istraživačkih organizacija, i drugo.

Informacije i odgovori prikupljeni tokom nacionalnih radionica, u svih 8 zemalja, predstavljaju veoma važne ulazne podatke i doprinose u velikoj meri uspešnoj realizaciji DRINKADRIA projekta.

Ime: Prezime: Institucija/ Organizacija: (Ukoliko želite da ostanete anonimni, ništa u obavezi da popunite ovaj deo)	
Delokrug rada Vaše institucije/ organizacije: <input type="checkbox"/> Javno komunalno preduzeće <input type="checkbox"/> Institucije: <input type="checkbox"/> lokalna <input type="checkbox"/> regionalna <input type="checkbox"/> nacionalna <input checked="" type="checkbox"/> Istraživačka organizacija <input type="checkbox"/> Udruženje vodovoda <input type="checkbox"/> ostalo (molimo naznačite):	
Vaše radne aktivnosti se uglavnom odnose na: <input type="checkbox"/> vodosnabdevanje <input checked="" type="checkbox"/> zaštitu voda <input type="checkbox"/> obrazovanje/istraživanje <input type="checkbox"/> međunarodna saradnja <input type="checkbox"/> finansije/zakonodavstvo <input type="checkbox"/> ostalo, navedite:	
Vaše aktivnosti se, u prostomom smislu, najviše odnose na sledeći nivo: (Molimo Vas da koristite procentualnu procenu tako da ukupan zbir bude 100%) Primer : lokalni nivo -55%, nacionalni -25%, ostalo - 20% lokalni 10%, regionalni _ %, nacionalni 80%, međunarodni 10%, ostalo(molimo Vas navedite) : _____, %	
Koji su trenutno najveći problemi i otvorena pitanja vezano za upravljanje sistemima za vodosnabdevanje? (Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema/otvorena pitanja) <input checked="" type="checkbox"/> Gubici <input checked="" type="checkbox"/> Količina <input checked="" type="checkbox"/> Kvalitet <input checked="" type="checkbox"/> Cena vode <input checked="" type="checkbox"/> Zakonodavni/ strateški okvir <input checked="" type="checkbox"/> Nedostatak finansijskih sredstava <input checked="" type="checkbox"/> Infrastruktura <input checked="" type="checkbox"/> Kapaciteti : <input type="checkbox"/> institucionalni <input type="checkbox"/> tehnički <input type="checkbox"/> ljudski <input checked="" type="checkbox"/> Klimatske promene <input checked="" type="checkbox"/> Nedovoljna saradnja <input type="checkbox"/> ostalo(navedite):	

Molimo Vas rangirajte sledeće koje detaljnije opisuje prethodno navedene probleme/otvorena pitanja :
(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

GUBICI

- ☒ neovlašćena potrošnja ☒ greške u merenju ☒ procurivanje u distributivnoj mreži
☒ curenje u vodovodnim objektima ☐ ostalo(navedite)

KOLIČINA

- ☒ porast potrošnje ☒ sezonske varijacije ☒ zapremina rezervoarskog prostora
☒ promene namene i koršćenja zemljišta ☒ velika potrošnja ostalih sektora (poljoprivreda, industrija, itd)
☒ klimatske promene ☐ ostalo(navedite)

KVALITET

- ☒ tačkasti izvori zagađenja ☒ rasuti izvori zagađenja ☒ problemi vezani za izvorišta
☒ promene namene i koršćenja zemljišta ☒ sezonske varijacije ☒ klimatske promene
☐ ostalo(navedite)

ORGANIČENJA U VODOSNABDEVANJU

- ☒ neadekvatna mreža ☒ kapacitet crpnih stanica ☒ nedovoljno rezervoara
☒ slabo održavanje distributivne mreže i sistema ☒ dotrajalost
☐ ostalo(navedite)

Po vašem mišljenju, koja su najveća ograničenja u vezi vodosnabdevanja u bliskoj budućnosti (narednih 25 - 30 godina)?

(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- ☒ gubici ☒ količina ☒ kvalitet ☒ cena vode ☒ zakonodavni i strateški okvir
☒ nedostatak finansijskih sredstava ☒ infrastruktura ☒ Kapaciteti: ☐ institucionalni ☐ tehnički ☐ ljudski
☐ ostalo(navedite):

Molimo Vas rangirajte po značaju aktivnosti i korake koji mogu poboljšati vodosnabdevanje u odnosu na prethodno pomenute probleme i otvorena pitanja?

(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- ☒ Više informacija o uticaju klimatskih promena na vodne resurse i budući razvoj/planiranje;
☒ Bolje razumevanje neizvesnosti u vezi klimatskih promena i njihovog uticaja na mere adaptacije;
☒ Više informacija o budućoj raspoloživosti vodnih resursa i planiranju/razvoju;
☒ Poboľšano znanje o načinu korišćenju zemljišta i zonama sanitarne zaštite;
☐ Više informacija o sigurnosti vodosnabdevanja u budućnosti;
☒ Poboľšanje upravljanja prekograničnim / regionalnim sistemima vodosnabdevanja;
☒ Razvoj zajedničkog protokola za prekogranične / regionalne sisteme vodosnabdevanja;
☒ Implementacija prioriternih mera radi efikasnijeg upravljanja vodnim resursima i sistemima za vodosnabdevanje;
☒ Smanjenje gubitaka i kontinuirani monitoring procurivanja;
☒ Primena savremenih metodologija za kontinuirani monitoring: curenja, kvaliteta vode, rada pumpi, itd;
☒ Razvoj web stranice koja će unaprediti saradnju, razmenu i transfer znanja, koji se odnose na probleme u vodosnabdevanju i upravljanju vodnim resursima;
☐ Ostalo(navedite):

Da li smatrate da je neke probleme/otvorena pitanja od opšteg interesa/ multidisciplinarna (cross-cutting) moguće rešiti:

(Molimo Vas rangirajte ih na sledeći način: **1 najveći**, **5 najmanji** rang, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- 2 ☐ Strateški pristup koji će rešiti većinu problema / otvorenih pitanja
1 ☒ Individualne strategije i smernice razvoja koje će se baviti većinom pitanja
5 ☐ Unapređenje saradnje među sektorima
4 ☐ Bolja saradnja institucija na lokalnom i nacionalnom nivou
1 ☐ Više finansijskih sredstava
3 ☐ Cena vode
☐ Ostalo (navedite):

Koja su 3 najznačajnija aktera / aktivnosti za poboljšanje upravljanja sistemima za vodosnabdevanje i vodnim resursima?

*finansijske
suplementarna sredstva
suplementarna savremena tehnologija*

Koje su aktivnosti koje Vaša institucija / organizacija može sprovesti radi poboljšanja upravljanja sistemima za vodosnabdevanje i vodnim resursima i doprineti njihovoj održivosti?

*saradnja sa lokalnim samoupravama
saradnja sa državnim institucijama
suplementarna savremena tehnologija resurse*

Da li smatrate da samo aktivnosti i mere na državnom nivou doprinose poboljšanju vodosnabdevanja?

☐ Da ☒ Ne

Ukoliko je odgovor "Ne", molimo Vas navedite ostale institucionalne nivoe od značaja:

U kojoj meri ste upoznati sa ulogom i aktivnostima bilateralnih komisija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima?

☐ Potpuno ☐ Umereno ☒ Nedovoljno

U kojoj meri ste upoznati sa ulogom i aktivnostima lokalnih institucija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje?

☐ Potpuno ☐ Umereno ☒ Nedovoljno

Da li postoji zakonodavni okvir (sporazumi, ugovori, Memorandum o razumevanju, i drugo) koji su značajni za prekogranično / regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima u Srbiji sa kojima ste Vi upoznati?

☒ Da ☐ Ne

Ukoliko je odgovor "Da", molimo Vas navedite naziv: *ICPDR*

U kojoj meri ste upoznati sa problemima/otvorenim pitanjima i ograničenjima koja se odnose na prekogranične/regionalne vodne resurse?

☐ Potpuno ☒ Umereno ☐ Nedovoljno

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Stepen implementacije planova upravljanja prekograničnim slivovima:

☐ Završena ☒ U toku ☐ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Stepen implementacije planova upravljanja vodama na teritoriji Republike Srbije:

☐ Završena ☒ U toku ☐ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Koje su, po vašem mišljenju, najvažnije teme o kojima bi želeli da dobijete više informacija u vezano za prekogranično/regionalno upravljanje vodama i vodnim resursima ?

Prekogranično zagotavljanje vodnih resursa

Da li smatrate da je ovaj tip radionica/okruglih stolova koristan:

☒ Da ☐ Ne ☐ Nemam stav

Dodatni komentari:



**Saradnja radi poboljšanja vodosnabdevanja
na području Jadranskog sliva**



**UPITNIK O UPRAVLJANJU PREKOGRANIČNIM / REGIONALNIM
SISTEMIMA ZA VODOSNABDEVANJE I VODNIM RESURSIMA**

Aktivnosti koje se odnose na kapitalizaciju i održivost projekta su važna komponenta koja će poslužiti kao okvir za razmenu bitnih iskustva i znanja od značaja za prekogranične / regionalne sisteme vodosnabdevanja i vodne resurse. Predviđena je razmena informacija i podataka zainteresovanih strana, državnih institucija, naučno-istraživačkih organizacija, i drugo.

Informacije i odgovori prikupljeni tokom nacionalnih radionica, u svih 8 zemalja, predstavljaju veoma važne ulazne podatke i doprinose u velikoj meri uspešnoj realizaciji DRINKADRIA projekta.

Ime: Prezime: Institucija/ Organizacija: (Ukoliko želite da ostanete anonimni, niste u obavezi da popunite ovaj deo)	
Delokrug rada Vaše institucije/ organizacije: <input type="checkbox"/> Javno komunalno preduzeće <input type="checkbox"/> Institucije: <input checked="" type="checkbox"/> lokalna <input checked="" type="checkbox"/> regionalna <input checked="" type="checkbox"/> nacionalna <input type="checkbox"/> Istraživačka organizacija <input type="checkbox"/> Udruženje vodovoda <input type="checkbox"/> ostalo (molimo naznačite):	
Vaše radne aktivnosti se uglavnom odnose na: <input checked="" type="checkbox"/> vodosnabdevanje <input checked="" type="checkbox"/> zaštitu voda <input type="checkbox"/> obrazovanje/istraživanje <input checked="" type="checkbox"/> međunarodna saradnja <input type="checkbox"/> finansije/zakonodavstvo <input type="checkbox"/> ostalo, navedite:	
Vaše aktivnosti se, u prostornom smislu, najviše odnose na sledeći nivo: (Molimo Vas da koristite procentualnu procenu tako da ukupan zbir bude 100%) Primer : lokalni nivo -55%, nacionalni -25%, ostalo - 20% 40 60 lokalni _%, regionalni _%, nacionalni _%, međunarodni _%, ostalo(molimo Vas navedite) : _____, %	
Koji su trenutno najveći problemi i otvorena pitanja vezano za upravljanje sistemima za vodosnabdevanje? (Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema/otvorena pitanja) 3 <input type="checkbox"/> Gubici 4 <input type="checkbox"/> Količina 2 <input type="checkbox"/> Kvalitet 1 <input type="checkbox"/> Cena vode 1 <input type="checkbox"/> Zakonodavni/ strateški okvir 2 <input type="checkbox"/> Nedostatak finansijskih sredstava 3 <input type="checkbox"/> Infrastruktura 2 <input type="checkbox"/> Kapaciteti : <input type="checkbox"/> institucionalni <input type="checkbox"/> tehnički <input type="checkbox"/> ljudski <input type="checkbox"/> Klimatske promene <input type="checkbox"/> Nedovoljna saradnja 4 <input type="checkbox"/> ostalo(navedite):	

Molimo Vas rangirajte sledeće koje detaljnije opisuje prethodno navedene probleme/otvorena pitanja :
(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

GUBICI

- 2 ☐ neovlašćena potrošnja 2 ☐ greške u merenju 1 ☐ procurivanje u distributivnoj mreži
4 ☐ curenje u vodovodnim objektima ☐ ostalo(navedite)

KOLIČINA

- ☐ porast potrošnje ☐ sezonske varijacije 5 ☐ zapremina rezervoarskog prostora
☐ promene namene i koršćenja zemljišta ☐ velika potrošnja ostalih sektora (poljoprivreda, industrija, itd)
☐ klimatske promene ☐ ostalo(navedite)

KVALITET

- 4 ☐ tačkasti izvori zagađenja 5 ☐ rasuti izvori zagađenja 5 ☐ problemi vezani za izvorišta
☐ promene namene i koršćenja zemljišta ☐ sezonske varijacije ☐ klimatske promene
☐ ostalo(navedite)

ORGANIČENJA U VODOSNABDEVANJU

- 3 ☐ neadekvatna mreža ☐ kapacitet crpnih stanica ☐ nedovoljno rezervoara
2 ☐ slabo održavanje distributivne mreže i sistema 1 ☐ dotrajalost
☐ ostalo(navedite)

Po vašem mišljenju, koja su najveća ograničenja u vezi vodosnabdevanja u bliskoj budućnosti (narednih 25 - 30 godina)?

(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- 3 ☐ gubici ☐ količina ☐ kvalitet 1 ☐ cena vode 2 ☐ zakonodavni i strateški okvir
☐ nedostatak finansijskih sredstava 4 ☐ infrastruktura 5 ☐ Kapaciteti: ☐ institucionalni ☐ tehnički ☐ ljudski
☐ ostalo(navedite):

Molimo Vas rangirajte po značaju aktivnosti i korake koji mogu poboljšati vodosnabdevanje u odnosu na prethodno pomenute probleme i otvorena pitanja?

(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- 3 ☐ Više informacija o uticaju klimatskih promena na vodne resurse i budući razvoj/planiranje;
4 ☐ Bolje razumevanje neizvesnosti u vezi klimatskih promena i njihovog uticaja na mere adaptacije;
2 ☐ Više informacija o budućoj raspoloživosti vodnih resursa i planiranju/razvoju;
1 ☐ Poboljšano znanje o načinu korišćenju zemljišta i zonama sanitarne zaštite;
5 ☐ Više informacija o sigurnosti vodosnabdevanja u budućnosti;
☐ Poboljšanje upravljanja prekograničnim / regionalnim sistemima vodosnabdevanja;
☐ Razvoj zajedničkog protokola za prekogranične / regionalne sisteme vodosnabdevanja;
☐ Implementacija prioriternih mera radi efikasnijeg upravljanja vodnim resursima i sistemima za vodosnabdevanje;
☐ Smanjenje gubitaka i kontinuirani monitoring procurivanja;
☐ Primena savremenih metodologija za kontinuirani monitoring: curenja, kvaliteta vode, rada pumpi, itd;
☐ Razvoj web stranice koja će unaprediti saradnju, razmenu i transfer znanja, koji se odnose na probleme u vodosnabdevanju i upravljanju vodnim resursima;
☐ Ostalo(navedite):

Da li smatrate da je neke probleme/otvorena pitanja od opšteg interesa/ multidisciplinarna (cross-cutting) moguće rešiti:

(Molimo Vas rangirajte ih na sledeći način: **1 najveći**, **5 najmanji** rang, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- 5
4
3
2
1
- ☐ Strateški pristup koji će rešiti većinu problema / otvorenih pitanja
 - ☐ Individualne strategije i smernice razvoja koje će se baviti većinom pitanja
 - ☐ Unapređenje saradnje među sektorima
 - ☐ Bolja saradnja institucija na lokalnom i nacionalnom nivou
 - ☐ Više finansijskih sredstava
 - ☐ Cena vode
 - ☐ Ostalo (navedite):

Koja su 3 najznačajnija aktera / aktivnosti za poboljšanje upravljanja sistemima za vodosnabdevanje i vodnim resursima?

CENA, ZAKONODAVNI OKVIR, FINANSIJE

Koje su aktivnosti koje Vaša institucija / organizacija može sprovesti radi poboljšanja upravljanja sistemima za vodosnabdevanje i vodnim resursima i doprineti njihovoj održivosti?

Da li smatrate da samo aktivnosti i mere na državnom nivou doprinose poboljšanju vodosnabdevanja?

☐ Da ☒ Ne

Ukoliko je odgovor "Ne", molimo Vas navedite ostale institucionalne nivoe od značaja:

REGIONALNI (EUROPEJ) I LOKALNI

U kojoj meri ste upoznati sa ulogom i aktivnostima bilateralnih komisija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima?

☐ Potpuno ☐ Umereno ☒ Nedovoljno

U kojoj meri ste upoznati sa ulogom i aktivnostima lokalnih institucija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje?

☐ Potpuno ☐ Umereno ☒ Nedovoljno

Da li postoji zakonodavni okvir (sporazumi, ugovori, Memorandum o razumevanju, i drugo) koji su značajni za prekogranično / regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima u Srbiji sa kojima ste Vi upoznati?

☐ Da ☒ Ne

Ukoliko je odgovor "Da", molimo Vas navedite naziv:

U kojoj meri ste upoznati sa problemima/otvorenim pitanjima i ograničenjima koja se odnose na prekogranične/regionalne vodne resurse?

☐ Potpuno ☐ Umereno ☒ Nedovoljno

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Stepen implementacije planova upravljanja prekograničnim slivovima:

☐ Završena ☒ U toku ☐ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Stepen implementacije planova upravljanja vodama na teritoriji Republike Srbije:

☐ Završena ☒ U toku ☐ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Koje su, po vašem mišljenju, najvažnije teme o kojima bi želeli da dobijete više informacija u vezano za prekogranično/regionalno upravljanje vodama i vodnim resursima ?

Da li smatrate da je ovaj tip radionica/okruglih stolova koristan:

☒ Da ☐ Ne ☐ Nemam stav

Dodatni komentari:



Saradnja radi poboljšanja vodosnabdevanja
na području Jadranskog sliva



UPITNIK O UPRAVLJANJU PREKOGRANIČNIM / REGIONALNIM
SISTEMIMA ZA VODOSNABDEVANJE I VODNIM RESURSIMA

Aktivnosti koje se odnose na kapitalizaciju i održivost projekta su važna komponenta koja će poslužiti kao okvir za razmenu bitnih iskustva i znanja od značaja za prekogranične / regionalne sisteme vodosnabdevanja i vodne resurse. Predviđena je razmena informacija i podataka zainteresovanih strana, državnih institucija, naučno-istraživačkih organizacija, i drugo.

Informacije i odgovori prikupljeni tokom nacionalnih radionica, u svih 8 zemalja, predstavljaju veoma važne ulazne podatke i doprinose u velikoj meri uspešnoj realizaciji DRINKADRIA projekta.

Ime:	Zoran
Prezime:	Pantović
Institucija/ Organizacija:	JK P. "Vodovod" Čačak:
(Ukoliko želite da ostanete anonimni, niste u obavezi da popunite ovaj deo)	
Delokrug rada Vaše institucije/ organizacije:	
<input checked="" type="checkbox"/> Javno komunalno preduzeće <input type="checkbox"/> Institucije: <input type="checkbox"/> lokalna <input type="checkbox"/> regionalna <input type="checkbox"/> nacionalna <input type="checkbox"/> Istraživačka organizacija <input type="checkbox"/> Udruženje vodovoda <input type="checkbox"/> ostalo (molimo naznačiti):	
Vaše radne aktivnosti se uglavnom odnose na:	
<input checked="" type="checkbox"/> vodosnabdevanje <input type="checkbox"/> zaštitu voda <input type="checkbox"/> obrazovanje/istraživanje <input type="checkbox"/> međunarodna saradnja <input type="checkbox"/> finansije/zakonodavstvo <input type="checkbox"/> ostalo, navedite: - kanalizisanje fekalnih voda	
Vaše aktivnosti se, u prostornom smislu, najviše odnose na sledeći nivo: (Molimo Vas da koristite procentualnu procenu tako da ukupan zbir bude 100%) Primer : lokalni nivo -55%, nacionalni -25%, ostalo - 20%	
lokalni 100%, regionalni %, nacionalni %, međunarodni %, ostalo(molimo Vas navedite) : %, %	
Koji su trenutno najveći problemi i otvorena pitanja vezano za upravljanje sistemima za vodosnabdevanje? (Molimo Vas rangirajte ih na sledeći način: 1 najveći, 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema/otvorena pitanja)	
2 Gubici 2 Količina 3 Kvalitet 3 Cena vode 4 Zakonodavni/ strateški okvir 4 Nedostatak finansijskih sredstava 4 Infrastruktura 5 Kapaciteti : <input type="checkbox"/> institucionalni <input type="checkbox"/> tehnički <input type="checkbox"/> ljudski 5 Klimatske promene <input type="checkbox"/> Nedovoljna saradnja 3 ostalo(navedite): nizak stepen naplate	

Molimo Vas rangirajte sledeće koje detaljnije opisuje prethodno navedene probleme/otvorena pitanja :
(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

GUBICI

- 3 ☐ neovlašćena potrošnja 2 ☐ greške u merenju 1 ☐ procurivanje u distributivnoj mreži
4 ☐ curenje u vodovodnim objektima ☐ ostalo(navedite)

KOLIČINA

- 3 ☐ porast potrošnje 2 ☐ sezonske varijacije ☐ zapremina rezervoarskog prostora
☐ promene namene i koršćenja zemljišta ☐ velika potrošnja ostalih sektora (poljoprivreda, industrija, itd)
2 ☐ klimatske promene 1 ☐ ostalo(navedite) *Akumulacija na regionalnom sistemu RZAV*

KVALITET

- ☐ tačkasti izvori zagađenja 1 ☐ rasuti izvori zagađenja 2 ☐ problemi vezani za izvorišta
☐ promene namene i koršćenja zemljišta 3 ☐ sezonske varijacije 3 ☐ klimatske promene
☐ ostalo(navedite)

ORGANIČENJA U VODOSNABDEVANJU

- 3 ☐ neadekvatna mreža 5 ☐ kapacitet crpnih stanica ☐ nedovoljno rezervoara
4 ☐ slabo održavanje distributivne mreže i sistema 2 ☐ dotrajalost
1 ☐ ostalo(navedite) *Akumulacija na sistemu RZAV*

Po vašem mišljenju, koja su najveća ograničenja u vezi vodosnabdevanja u bliskoj budućnosti (narednih 25 - 30 godina)?

(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- 2 ☐ gubici 2 ☐ količina 3 ☐ kvalitet 4 ☐ cena vode 4 ☐ zakonodavni i strateški okvir
1 ☐ nedostatak finansijskih sredstava ☐ infrastruktura ☐ Kapaciteti: ☐ institucionalni ☐ tehnički ☐ ljudski
☐ ostalo(navedite):

Molimo Vas rangirajte po značaju aktivnosti i korake koji mogu poboljšati vodosnabdevanje u odnosu na prethodno pomenute probleme i otvorena pitanja?

(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- 3 ☐ Više informacija o uticaju klimatskih promena na vodne resurse i budući razvoj/planiranje;
3 ☐ Bolje razumevanje neizvesnosti u vezi klimatskih promena i njihovog uticaja na mere adaptacije;
1 ☐ Više informacija o budućoj raspoloživosti vodnih resursa i planiranju/razvoju;
☐ Poboľšano znanje o načinu korišćenju zemljišta i zonama sanitarne zaštite;
☐ Više informacija o sigurnosti vodosnabdevanja u budućnosti;
4 ☐ Poboľšanje upravljanja prekograničnim / regionalnim sistemima vodosnabdevanja;
☐ Razvoj zajedničkog protokola za prekogranične / regionalne sisteme vodosnabdevanja;
☐ Implementacija prioriternih mera radi efikasnijeg upravljanja vodnim resursima i sistemima za vodosnabdevanje;
2 ☐ Smanjenje gubitaka i kontinuirani monitoring procurivanja;
2 ☐ Primena savremenih metodologija za kontinuirani monitoring: curenja, kvaliteta vode, rada pumpi, itd;
☐ Razvoj web stranice koja će unaprediti saradnju, razmenu i transfer znanja, koji se odnose na probleme u vodosnabdevanju i upravljanju vodnim resursima;
☐ Ostalo(navedite):

Da li smatrate da je neke probleme/otvorena pitanja od opšteg interesa/ multidisciplinarna (cross-cutting) moguće rešiti:

(Molimo Vas rangirajte ih na sledeći način: **1 najveći**, **5 najmanji** rang, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- 5 ☐ Strateški pristup koji će rešiti većinu problema / otvorenih pitanja
4 ☐ Individualne strategije i smernice razvoja koje će se baviti većinom pitanja
2 ☐ Unapređenje saradnje među sektorima
2 ☐ Bolja saradnja institucija na lokalnom i nacionalnom nivou
1 ☐ Više finansijskih sredstava
3 ☐ Cena vode
☐ Ostalo (navedite):

Koja su 3 najznačajnija aktera / aktivnosti za poboljšanje upravljanja sistemima za vodosnabdevanje i vodnim resursima?

Država i bolja saradnja institucija na lokalnom i nacionalnom nivou

Koje su aktivnosti koje Vaša institucija / organizacija može sprovesti radi poboljšanja upravljanja sistemima za vodosnabdevanje i vodnim resursima i doprineti njihovoj održivosti?

- povećanje procenta naplate potroživanja
- smanjenje gubitaka
- smanjenje troškova

Da li smatrate da samo aktivnosti i mere na državnom nivou doprinose poboljšanju vodosnabdevanja?

☐ Da ☒ Ne

Ukoliko je odgovor "Ne", molimo Vas navedite ostale institucionalne nivoe od značaja:

Lokalna samouprava

U kojoj meri ste upoznati sa ulogom i aktivnostima bilateralnih komisija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima?

☐ Potpuno ☒ Umereno ☐ Nedovoljno

U kojoj meri ste upoznati sa ulogom i aktivnostima lokalnih institucija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje?

☐ Potpuno ☒ Umereno ☐ Nedovoljno

Da li postoji zakonodavni okvir (sporazumi, ugovori, Memorandum o razumevanju, i drugo) koji su značajni za prekogranično / regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima u Srbiji sa kojima ste Vi upoznati?

☐ Da ☒ Ne

Ukoliko je odgovor "Da", molimo Vas navedite naziv:

U kojoj meri ste upoznati sa problemima/otvorenim pitanjima i ograničenjima koja se odnose na prekogranične/regionalne vodne resurse?

☐ Potpuno ☐ Umereno ☒ Nedovoljno

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Stepen implementacije planova upravljanja prekograničnim slivovima:

☐ Završena ☐ U toku ☒ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Stepen implementacije planova upravljanja vodama na teritoriji Republike Srbije:

☐ Završena ☐ U toku ☐ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Koje su, po vašem mišljenju, najvažnije teme o kojima bi želeli da dobijete više informacija u vezano za prekogranično/regionalno upravljanje vodama i vodnim resursima ?

Da li smatrate da je ovaj tip radionica/okruglih stolova koristan:

☒ Da ☐ Ne ☐ Nemam stav

Dodatni komentari:



**Saradnja radi poboljšanja vodosnabdevanja
na području Jadranskog sliva**



**UPITNIK O UPRAVLJANJU PREKOGRANIČNIM / REGIONALNIM
SISTEMIMA ZA VODOSNABDEVANJE I VODNIM RESURSIMA**

Aktivnosti koje se odnose na kapitalizaciju i održivost projekta su važna komponenta koja će poslužiti kao okvir za razmenu bitnih iskustva i znanja od značaja za prekogranične / regionalne sisteme vodosnabdevanja i vodne resurse. Predviđena je razmena informacija i podataka zainteresovanih strana, državnih institucija, naučno-istraživačkih organizacija, i drugo.

Informacije i odgovori prikupljeni tokom nacionalnih radionica, u svih 8 zemalja, predstavljaju veoma važne ulazne podatke i doprinose u velikoj meri uspešnoj realizaciji DRINKADRIA projekta.

Ime: Prezime: Institucija/ Organizacija: (Ukoliko želite da ostanete anonimni, niste u obavezi da popunite ovaj deo)	
Delokrug rada Vaše institucije/ organizacije: <input type="checkbox"/> Javno komunalno preduzeće <input checked="" type="checkbox"/> Institucije: <input type="checkbox"/> lokalna <input type="checkbox"/> regionalna <input type="checkbox"/> nacionalna <input checked="" type="checkbox"/> Istraživačka organizacija <input type="checkbox"/> Udruženje vodovoda <input type="checkbox"/> ostalo (molimo naznačite):	
Vaše radne aktivnosti se uglavnom odnose na: <input checked="" type="checkbox"/> vodosnabdevanje <input checked="" type="checkbox"/> zaštitu voda <input type="checkbox"/> obrazovanje/istraživanje <input type="checkbox"/> međunarodna saradnja <input type="checkbox"/> finansije/zakonodavstvo <input type="checkbox"/> ostalo, navedite:	
Vaše aktivnosti se, u prostornom smislu, najviše odnose na sledeći nivo: (Molimo Vas da koristite procentualnu procenu tako da ukupan zbir bude 100%) Primer : lokalni nivo -55%, nacionalni -25%, ostalo - 20% lokalni <u>50</u> %, regionalni <u>10</u> %, nacionalni <u>20</u> %, međunarodni <u>0</u> %, ostalo(molimo Vas navedite) : _____, %	
Koji su trenutno najveći problemi i otvorena pitanja vezano za upravljanje sistemima za vodosnabdevanje? (Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema/otvorena pitanja) <input checked="" type="checkbox"/> Gubici <input type="checkbox"/> Količina <input checked="" type="checkbox"/> Kvalitet <input checked="" type="checkbox"/> Cena vode <input type="checkbox"/> Zakonodavni/ strateški okvir <input checked="" type="checkbox"/> Nedostatak finansijskih sredstava <input checked="" type="checkbox"/> Infrastruktura <input type="checkbox"/> Kapaciteti : <input type="checkbox"/> institucionalni <input type="checkbox"/> tehnički <input type="checkbox"/> ljudski <input type="checkbox"/> Klimatske promene <input type="checkbox"/> Nedovoljna saradnja <input type="checkbox"/> ostalo(navedite):	

Molimo Vas rangirajte sledeće koje detaljnije opisuju prethodno navedene probleme/otvorena pitanja :
(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

GUBICI

- ☒ neovlašćena potrošnja ☒ greške u merenju ☒ procurivanje u distributivnoj mreži
☒ curenje u vodovodnim objektima ☒ ostalo(navedite)

KOLIČINA

- ☒ porast potrošnje ☒ sezonske varijacije ☒ zapremina rezervoarskog prostora
☐ promene namene i koršćenja zemljišta ☒ velika potrošnja ostalih sektora (poljoprivreda, industrija, itd)
☒ klimatske promene ☐ ostalo(navedite)

KVALITET

- ☒ tačkasti izvori zagađenja ☒ rasuti izvori zagađenja ☒ problemi vezani za izvorišta
☐ promene namene i koršćenja zemljišta ☐ sezonske varijacije ☒ klimatske promene
☒ ostalo(navedite)

ORGANIČENJA U VODOSNABDEVANJU

- ☒ neadekvatna mreža ☒ kapacitet crpnih stanica ☒ nedovoljno rezervoara
☒ slabo održavanje distributivne mreže i sistema ☒ dotrajalost
☐ ostalo(navedite)

Po vašem mišljenju, koja su najveća ograničenja u vezi vodosnabdevanja u bliskoj budućnosti (narednih 25 - 30 godina)?

(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- ☐ gubici ☒ količina ☒ kvalitet ☒ cena vode ☐ zakonodavni i strateški okvir
☒ nedostatak finansijskih sredstava ☒ infrastruktura ☐ Kapaciteti: ☐ institucionalni ☐ tehnički ☐ ljudski
☐ ostalo(navedite):

Molimo Vas rangirajte po značaju aktivnosti i korake koji mogu poboljšati vodosnabdevanje u odnosu na prethodno pomenute probleme i otvorena pitanja?

(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- ☒ Više informacija o uticaju klimatskih promena na vodne resurse i budući razvoj/planiranje;
☐ Bolje razumevanje neizvesnosti u vezi klimatskih promena i njihovog uticaja na mere adaptacije;
☒ Više informacija o budućoj raspoloživosti vodnih resursa i planiranju/razvoju;
☒ Poboljšano znanje o načinu korišćenju zemljišta i zonama sanitarne zaštite;
☐ Više informacija o sigurnosti vodosnabdevanja u budućnosti;
☐ Poboljšanje upravljanja prekograničnim / regionalnim sistemima vodosnabdevanja;
☐ Razvoj zajedničkog protokola za prekogranične / regionalne sisteme vodosnabdevanja;
☐ Implementacija prioriternih mera radi efikasnijeg upravljanja vodnim resursima i sistemima za vodosnabdevanje;
☒ Smanjenje gubitaka i kontinuirani monitoring procurivanja;
☒ Primena savremenih metodologija za kontinuirani monitoring: curenja, kvaliteta vode, rada pumpi, itd;
☐ Razvoj web stranice koja će unaprediti saradnju, razmenu i transfer znanja, koji se odnose na probleme u vodosnabdevanju i upravljanju vodnim resursima;
☐ Ostalo(navedite):

Da li smatrate da je neke probleme/otvorena pitanja od opšteg interesa/ multidisciplinarna (cross-cutting) moguće rešiti:

(Molimo Vas rangirajte ih na sledeći način: **1 najveći**, **5 najmanji** rang, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- ☒ Strateški pristup koji će rešiti većinu problema / otvorenih pitanja
- ☐ Individualne strategije i smernice razvoja koje će se baviti većinom pitanja
- ☒ Unapređenje saradnje među sektorima
- ☒ Bolja saradnja institucija na lokalnom i nacionalnom nivou
- ☒ Više finansijskih sredstava
- ☒ Cena vode
- ☐ Ostalo (navedite):

Koja su 3 najznačajnija aktera / aktivnosti za poboljšanje upravljanja sistemima za vodosnabdevanje i vodnim resursima?

Koje su aktivnosti koje Vaša institucija / organizacija može sprovesti radi poboljšanja upravljanja sistemima za vodosnabdevanje i vodnim resursima i doprineti njihovoj održivosti?

Da li smatrate da samo aktivnosti i mere na državnom nivou doprinose poboljšanju vodosnabdevanja?

☐ Da ☒ Ne

Ukoliko je odgovor "Ne", molimo Vas navedite ostale institucionalne nivoe od značaja:

U kojoj meri ste upoznati sa ulogom i aktivnostima bilateralnih komisija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima?

☐ Potpuno ☒ Umereno ☐ Nedovoljno

U kojoj meri ste upoznati sa ulogom i aktivnostima lokalnih institucija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje?

☐ Potpuno ☒ Umereno ☐ Nedovoljno

Da li postoji zakonodavni okvir (sporazumi, ugovori, Memorandum o razumevanju, i drugo) koji su značajni za prekogranično / regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima u Srbiji sa kojima ste Vi upoznati?

☒ Da ☐ Ne

Ukoliko je odgovor "Da", molimo Vas navedite naziv:

U kojoj meri ste upoznati sa problemima/otvorenim pitanjima i ograničenjima koja se odnose na prekogranične/regionalne vodne resurse?

☐ Potpuno ☒ Umereno ☐ Nedovoljno

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Stepen implementacije planova upravljanja prekograničnim slivovima:

☐ Završena ☒ U toku ☐ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Stepen implementacije planova upravljanja vodama na teritoriji Republike Srbije:

☐ Završena ☒ U toku ☐ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Koje su, po vašem mišljenju, najvažnije teme o kojima bi želeli da dobijete više informacija u vezano za prekogranično/regionalno upravljanje vodama i vodnim resursima ?

Da li smatrate da je ovaj tip radionica/okruglih stolova koristan:

☒ Da ☐ Ne ☐ Nemam stav

Dodatni komentari:



**Saradnja radi poboljšanja vodosnabdevanja
na području Jadranskog sliva**



**UPITNIK O UPRAVLJANJU PREKOGRANIČNIM / REGIONALNIM
SISTEMIMA ZA VODOSNABDEVANJE I VODNIM RESURSIMA**

Aktivnosti koje se odnose na kapitalizaciju i održivost projekta su važna komponenta koja će poslužiti kao okvir za razmenu bitnih iskustva i znanja od značaja za prekogranične / regionalne sisteme vodosnabdevanja i vodne resurse. Predviđena je razmena informacija i podataka zainteresovanih strana, državnih institucija, naučno-istraživačkih organizacija, i drugo.

Informacije i odgovori prikupljeni tokom nacionalnih radionica, u svih 8 zemalja, predstavljaju veoma važne ulazne podatke i doprinose u velikoj meri uspešnoj realizaciji DRINKADRIA projekta.

Ime:																					
Prezime:																					
Institucija/ Organizacija:																					
(Ukoliko želite da ostanete anonimni, niste u obavezi da popunite ovaj deo)																					
Delokrug rada Vaše institucije/ organizacije:																					
<input checked="" type="checkbox"/> Javno komunalno preduzeće <input type="checkbox"/> Institucije: <input type="checkbox"/> lokalna <input type="checkbox"/> regionalna <input type="checkbox"/> nacionalna <input type="checkbox"/> Istraživačka organizacija <input type="checkbox"/> Udruženje vodovoda <input type="checkbox"/> ostalo (molimo naznačite):																					
Vaše radne aktivnosti se uglavnom odnose na:																					
<input checked="" type="checkbox"/> vodosnabdevanje <input type="checkbox"/> zaštitu voda <input type="checkbox"/> obrazovanje/istraživanje <input type="checkbox"/> međunarodna saradnja <input type="checkbox"/> finansije/zakonodavstvo <input type="checkbox"/> ostalo, navedite:																					
Vaše aktivnosti se, u prostornom smislu, najviše odnose na sledeći nivo: (Molimo Vas da koristite procentualnu procenu tako da ukupan zbir bude 100%) Primer : lokalni nivo -55%, nacionalni -25%, ostalo - 20% lokalni <u>10</u> %, regionalni <u>10</u> %, nacionalni <u>0</u> %, međunarodni <u>0</u> %, ostalo(molimo Vas navedite) : _____, %																					
Koji su trenutno najveći problemi i otvorena pitanja vezano za upravljanje sistemima za vodosnabdevanje? (Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema/otvorena pitanja)																					
<table border="0"> <tr> <td><u>3</u> Gubici</td> <td><u>5</u> Količina</td> <td><u>5</u> Kvalitet</td> <td><u>2</u> Cena vode</td> </tr> <tr> <td><u>2</u> Zakonodavni/ strateški okvir</td> <td><u>3</u> Nedostatak finansijskih sredstava</td> <td><u>3</u> Infrastruktura</td> <td></td> </tr> <tr> <td colspan="4"> <input type="checkbox"/> Kapaciteti : <u>5</u> institucionalni <u>4</u> tehnički <u>3</u> ljudski </td> </tr> <tr> <td colspan="4"> <input checked="" type="checkbox"/> Klimatske promene <input checked="" type="checkbox"/> Nedovoljna saradnja </td> </tr> <tr> <td colspan="4"> <input type="checkbox"/> ostalo(navedite): </td> </tr> </table>		<u>3</u> Gubici	<u>5</u> Količina	<u>5</u> Kvalitet	<u>2</u> Cena vode	<u>2</u> Zakonodavni/ strateški okvir	<u>3</u> Nedostatak finansijskih sredstava	<u>3</u> Infrastruktura		<input type="checkbox"/> Kapaciteti : <u>5</u> institucionalni <u>4</u> tehnički <u>3</u> ljudski				<input checked="" type="checkbox"/> Klimatske promene <input checked="" type="checkbox"/> Nedovoljna saradnja				<input type="checkbox"/> ostalo(navedite):			
<u>3</u> Gubici	<u>5</u> Količina	<u>5</u> Kvalitet	<u>2</u> Cena vode																		
<u>2</u> Zakonodavni/ strateški okvir	<u>3</u> Nedostatak finansijskih sredstava	<u>3</u> Infrastruktura																			
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<input type="checkbox"/> ostalo(navedite):																					

Molimo Vas rangirajte sledeće koje detaljnije opisuju prethodno navedene probleme/otvorena pitanja :
(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

GUBICI

- 2 ☒ neovlašćena potrošnja 3 ☒ greške u merenju 4 ☐ procurivanje u distributivnoj mreži
5 ☐ curenje u vodovodnim objektima ☐ ostalo(navedite)

KOLIČINA

- 5 ☒ porast potrošnje 4 ☐ sezonske varijacije 3 ☐ zapremina rezervoarskog prostora
4 ☐ promene namene i korišćenja zemljišta 3 ☐ velika potrošnja ostalih sektora (poljoprivreda, industrija, itd)
4 ☐ klimatske promene ☐ ostalo(navedite)

KVALITET

- 3 ☐ tačkasti izvori zagađenja 2 ☐ rasuti izvori zagađenja 2 ☐ problemi vezani za izvorišta
5 ☐ promene namene i korišćenja zemljišta 4 ☐ sezonske varijacije 3 ☐ klimatske promene
3 ☐ ostalo(navedite)

ORGANIČENJA U VODOSNABDEVANJU

- 4 ☐ neadekvatna mreža 5 ☐ kapacitet crpnih stanica 3 ☐ nedovoljno rezervoara
3 ☐ slabo održavanje distributivne mreže i sistema 2 ☐ dotrajalost
3 ☐ ostalo(navedite)

Po vašem mišljenju, koja su najveća ograničenja u vezi vodosnabdevanja u bliskoj budućnosti (narednih 25 - 30 godina)?

(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- 3 ☒ gubici 4 ☐ količina 3 ☐ kvalitet 2 ☐ cena vode 2 ☐ zakonodavni i strateški okvir
2 ☐ nedostatak finansijskih sredstava 3 ☐ infrastruktura ☐ Kapaciteti: 3 ☐ institucionalni 3 ☐ tehnički 3 ☐ ljudski
3 ☐ ostalo(navedite):

Molimo Vas rangirajte po značaju aktivnosti i korake koji mogu poboljšati vodosnabdevanje u odnosu na prethodno pomenute probleme i otvorena pitanja?

(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- 4 ☐ Više informacija o uticaju klimatskih promena na vodne resurse i budući razvoj/planiranje;
3 ☐ Bolje razumevanje neizvesnosti u vezi klimatskih promena i njihovog uticaja na mere adaptacije;
3 ☐ Više informacija o budućoj raspoloživosti vodnih resursa i planiranju/razvoju;
2 ☐ Poboľšano znanje o načinu korišćenju zemljišta i zonama sanitarne zaštite;
2 ☐ Više informacija o sigurnosti vodosnabdevanja u budućnosti;
4 ☐ Poboľšanje upravljanja prekograničnim / regionalnim sistemima vodosnabdevanja;
4 ☐ Razvoj zajedničkog protokola za prekogranične / regionalne sisteme vodosnabdevanja;
2 ☐ Implementacija prioriternih mera radi efikasnijeg upravljanja vodnim resursima i sistemima za vodosnabdevanje;
1 ☐ Smanjenje gubitaka i kontinuirani monitoring procurivanja;
1 ☐ Primena savremenih metodologija za kontinuirani monitoring: curenja, kvaliteta vode, rada pumpi, itd;
3 ☐ Razvoj web stranice koja će unaprediti saradnju, razmenu i transfer znanja, koji se odnose na probleme u vodosnabdevanju i upravljanju vodnim resursima;
3 ☐ Ostalo(navedite):

Da li smatrate da je neke probleme/otvorena pitanja od opšteg interesa/ multidisciplinarna (cross-cutting) moguće rešiti:

(Molimo Vas rangirajte ih na sledeći način: **1 najveći**, **5 najmanji** rang, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- 2
3
4
5
- ☒ Strateški pristup koji će rešiti većinu problema / otvorenih pitanja
 - ☒ Individualne strategije i smernice razvoja koje će se baviti većinom pitanja
 - ☒ Unapređenje saradnje među sektorima
 - ☐ Bolja saradnja institucija na lokalnom i nacionalnom nivou
 - ☐ Više finansijskih sredstava
 - ☐ Cena vode
 - ☐ Ostalo (navedite):

Koja su 3 najznačajnija aktera / aktivnosti za poboljšanje upravljanja sistemima za vodosnabdevanje i vodnim resursima?

LOKALNA VLAST / MENADJMENT PREDUZEĆA / ZAPOSLENI

Koje su aktivnosti koje Vaša institucija / organizacija može sprovesti radi poboljšanja upravljanja sistemima za vodosnabdevanje i vodnim resursima i doprineti njihovoj održivosti?

IMPLEMENTACIJA ASSET MANAGEMENT KONCEPTA, JAKOŠĆENJE ZAKONODAVSTVA

Da li smatrate da samo aktivnosti i mere na državnom nivou doprinose poboljšanju vodosnabdevanja?

☒ Da ☐ Ne

Ukoliko je odgovor "Ne", molimo Vas navedite ostale institucionalne nivoe od značaja:

U kojoj meri ste upoznati sa ulogom i aktivnostima bilateralnih komisija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima?

☐ Potpuno ☒ Umereno ☐ Nedovoljno

U kojoj meri ste upoznati sa ulogom i aktivnostima lokalnih institucija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje?

☐ Potpuno ☒ Umereno ☐ Nedovoljno

Da li postoji zakonodavni okvir (sporazumi, ugovori, Memorandum o razumevanju, i drugo) koji su značajni za prekogranično / regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima u Srbiji sa kojima ste Vi upoznati?

☐ Da ☒ Ne

Ukoliko je odgovor "Da", molimo Vas navedite naziv:

U kojoj meri ste upoznati sa problemima/otvorenim pitanjima i ograničenjima koja se odnose na prekogranične/regionalne vodne resurse?

☐ Potpuno ☒ Umereno ☐ Nedovoljno

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Stepen implementacije planova upravljanja prekograničnim slivovima:

☐ Završena ☐ U toku ☒ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Stepen implementacije planova upravljanja vodama na teritoriji Republike Srbije:

☐ Završena ☒ U toku ☐ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Koje su, po vašem mišljenju, najvažnije teme o kojima bi želeli da dobijete više informacija u vezano za prekogranično/regionalno upravljanje vodama i vodnim resursima ?

- RAZLIČNA ZNATI I ISKUSTAVA U REGIONU

Da li smatrate da je ovaj tip radionica/okruglih stolova koristan:

☒ Da ☐ Ne ☐ Nemam stav

Dodatni komentari:



Saradnja radi poboljšanja vodosnabdevanja
na području Jadranskog sliva



UPITNIK O UPRAVLJANJU PREKOGRANIČNIM / REGIONALNIM
SISTEMIMA ZA VODOSNABDEVANJE I VODNIM RESURSIMA

Aktivnosti koje se odnose na kapitalizaciju i održivost projekta su važna komponenta koja će poslužiti kao okvir za razmenu bitnih iskustva i znanja od značaja za prekogranične / regionalne sisteme vodosnabdevanja i vodne resurse. Predviđena je razmena informacija i podataka zainteresovanih strana, državnih institucija, naučno-istraživačkih organizacija, i drugo.

Informacije i odgovori prikupljeni tokom nacionalnih radionica, u svih 8 zemalja, predstavljaju veoma važne ulazne podatke i doprinose u velikoj meri uspešnoj realizaciji DRINKADRIA projekta.

Ime: Prezime: Institucija/ Organizacija: (Ukoliko želite da ostanete anonimni, niste u obavezi da popunite ovaj deo)	Aleksandar Šotić BEOGRADSKI VODOVOD I KANALIZACIJA
Delokrug rada Vaše institucije/ organizacije: <input checked="" type="checkbox"/> Javno komunalno preduzeće <input type="checkbox"/> Institucije: <input type="checkbox"/> lokalna <input type="checkbox"/> regionalna <input type="checkbox"/> nacionalna <input type="checkbox"/> Istraživačka organizacija <input type="checkbox"/> Udruženje vodovoda <input type="checkbox"/> ostalo (molimo naznačiti):	
Vaše radne aktivnosti se uglavnom odnose na: <input checked="" type="checkbox"/> vodosnabdevanje <input type="checkbox"/> zaštitu voda <input type="checkbox"/> obrazovanje/istraživanje <input checked="" type="checkbox"/> međunarodna saradnja <input type="checkbox"/> finansije/zakonodavstvo <input type="checkbox"/> ostalo, navedite:	
Vaše aktivnosti se, u prostornom smislu, najviše odnose na sledeći nivo: (Molimo Vas da koristite procentualnu procenu tako da ukupan zbir bude 100%) Primer : lokalni nivo -55%, nacionalni -25%, ostalo - 20% lokalni <u>70</u> %, regionalni <u>10</u> %, nacionalni <u>10</u> %, međunarodni <u>10</u> %, ostalo(molimo Vas navedite) : _____ %	
Koji su trenutno najveći problemi i otvorena pitanja vezano za upravljanje sistemima za vodosnabdevanje? (Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema/otvorena pitanja) <input type="checkbox"/> Gubici <input type="checkbox"/> Količina <input type="checkbox"/> Kvalitet <input type="checkbox"/> Cena vode <input type="checkbox"/> Zakonodavni/ strateški okvir <input type="checkbox"/> Nedostatak finansijskih sredstava <input type="checkbox"/> Infrastruktura <input type="checkbox"/> Kapaciteti : <input type="checkbox"/> institucionalni <input type="checkbox"/> tehnički <input type="checkbox"/> ljudski <input type="checkbox"/> Klimatske promene <input type="checkbox"/> Nedovoljna saradnja <input checked="" type="checkbox"/> Ostalo(navedite): <u>VLASNIŠTVO I UPRAVLJANJE</u>	

Molimo Vas rangirajte sledeće koje detaljnije opisuju prethodno navedene probleme/otvorena pitanja :
(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

GUBICI

- 1 neovlašćena potrošnja 3 greške u merenju 3 procurivanje u distributivnoj mreži
2 curenje u vodovodnim objektima □ ostalo(navedite)

KOLIČINA

- porast potrošnje □ sezone varijacije □ zapremina rezervoarskog prostora
□ promene namene i koršćenja zemljišta □ velika potrošnja ostalih sektora (poljoprivreda, Industrija, itd)
□ klimatske promene □ ostalo(navedite)

KVALITET

- tačkasti izvori zagađenja 2 rasuti izvori zagađenja 1 problemi vezani za izvorišta
3 promene namene i koršćenja zemljišta □ sezone varijacije □ klimatske promene
□ ostalo(navedite)

ORGANIČENJA U VODOSNABDEVANJU

- 3 neadekvatna mreža □ kapacitet crpnih stanica □ nedovoljno rezervoara
1 slabo održavanje distributivne mreže i sistema 2 □ dotrajnost
□ ostalo(navedite)

Po vašem mišljenju, koja su najveća ograničenja u vezi vodosnabdevanja u bliskoj budućnosti (narednih 25 - 30 godina)?

(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- gubici □ količina □ kvalitet □ cena vode 1 zakonodavni i strateški okvir
□ nedostatak finansijskih sredstava □ infrastruktura □ Kapaciteti: 2 institucionalni 4 tehnički 3 ljudski
□ ostalo(navedite):

Molimo Vas rangirajte po značaju aktivnosti i korake koji mogu poboljšati vodosnabdevanje u odnosu na prethodno pomenute probleme i otvorena pitanja?

(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- 3 □ Više informacija o uticaju klimatskih promena na vodne resurse i budući razvoj/planiranje;
□ Bolje razumevanje neizvesnosti u vezi klimatskih promena i njihovog uticaja na mere adaptacije;
2 □ Više informacija o budućoj raspoloživosti vodnih resursa i planiranju/razvoju;
□ Poboľšano znanje o načinu korišćenju zemljišta i zonama sanitarne zaštite;
2 □ Više informacija o sigurnosti vodosnabdevanja u budućnosti;
□ Poboľšanje upravljanja prekograničnim / regionalnim sistemima vodosnabdevanja;
□ Razvoj zajedničkog protokola za prekogranične / regionalne sisteme vodosnabdevanja;
1 □ Implementacija prioritarnih mera radi efikasnijeg upravljanja vodnim resursima i sistemima za vodosnabdevanje;
□ Smanjenje gubitaka i kontinuirani monitoring procurivanja;
□ Primena savremenih metodologija za kontinuirani monitoring: curenja, kvaliteta vode, rada pumpi, itd;
□ Razvoj web stranice koja će unaprediti saradnju, razmenu i transfer znanja, koji se odnose na probleme u vodosnabdevanju i upravljanju vodnim resursima;
□ Ostalo(navedite):

Da li smatrate da je neke probleme/otvorena pitanja od opšteg interesa/ multidisciplinarna (cross-cutting) moguće rešiti:

(Molimo Vas rangirajte ih na sledeći način: **1 najveći**, **5 najmanji** rang, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- 1-
2-
- ☐ Strateški pristup koji će rešiti većinu problema / otvorenih pitanja
 - ☐ Individualne strategije i smernice razvoja koje će se baviti većinom pitanja
 - ☐ Unapređenje saradnje među sektorima
 - ☐ Bolja saradnja institucija na lokalnom i nacionalnom nivou
 - ☐ Više finansijskih sredstava
 - ☐ Cena vode
 - ☐ Ostalo (navedite):

Koja su 3 najznačajnija aktera / aktivnosti za poboljšanje upravljanja sistemima za vodosnabdevanje i vodnim resursima?

- DEFINISANJE VLASNIŠTVA
- PROFESIONALIZACIJA UPRAVLJANJA
- REFORMA JAVNIH PRIPUZETA

Koje su aktivnosti koje Vaša institucija / organizacija može sprovesti radi poboljšanja upravljanja sistemima za vodosnabdevanje i vodnim resursima i doprineti njihovoj održivosti?

- PODIZANJE SVESCI O KLJUCNIM PITANJIMA

Da li smatrate da samo aktivnosti i mere na državnom nivou doprinose poboljšanju vodosnabdevanja?

☐ Da ☒ Ne

Ukoliko je odgovor "Ne", molimo Vas navedite ostale institucionalne nivoe od značaja:

VAŽNA JE HIJERARHIJA KORAKA

U kojoj meri ste upoznati sa ulogom i aktivnostima bilateralnih komisija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima?

☐ Potpuno ☐ Umereno ☒ Nedovoljno

U kojoj meri ste upoznati sa ulogom i aktivnostima lokalnih institucija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima?

☐ Potpuno ☐ Umereno ☒ Nedovoljno

Da li postoji zakonodavni okvir (sporazumi, ugovori, Memorandum o razumevanju, i drugo) koji su značajni za prekogranično / regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima u Srbiji sa kojima ste Vi upoznati?

☐ Da ☒ Ne

Ukoliko je odgovor "Da", molimo Vas navedite naziv:

U kojoj meri ste upoznati sa problemima/otvorenim pitanjima i ograničenjima koja se odnose na prekogranične/regionalne vodne resurse?

☐ Potpuno ☐ Umereno ☒ Nedovoljno

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Stepen implementacije planova upravljanja prekograničnim slivovima:

☐ Završena ☐ U toku ☐ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Stepen implementacije planova upravljanja vodama na teritoriji Republike Srbije:

☐ Završena ☐ U toku ☐ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Koje su, po vašem mišljenju, najvažnije teme o kojima bi želeli da dobijete više informacija u vezano za prekogranično/regionalno upravljanje vodama i vodnim resursima ?

Da li smatrate da je ovaj tip radionica/okruglih stolova koristan:

☒ Da ☐ Ne ☐ Nemam stav

Dodatni komentari:



Molimo Vas rangirajte sledeće koje detaljnije opisuje prethodno navedene probleme/otvorena pitanja :
(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

GUBICI

- ☒ neovlašćena potrošnja ☒ greške u merenju ☒ procurivanje u distributivnoj mreži
☒ curenje u vodovodnim objektima ☒ ostalo(navedite)

KOLIČINA

- ☒ porast potrošnje ☒ sezonske varijacije ☒ zapremina rezervoarskog prostora
☒ promene namene i korišćenja zemljišta ☒ velika potrošnja ostalih sektora (poljoprivreda, industrija, itd)
☒ klimatske promene ☒ ostalo(navedite)

KVALITET

- ☐ tačkasti izvori zagađenja ☐ rasuti izvori zagađenja ☒ problemi vezani za izvorišta
☒ promene namene i korišćenja zemljišta ☐ sezonske varijacije ☒ klimatske promene
☐ ostalo(navedite)

ORGANIČENJA U VODOSNABDEVANJU

- ☒ neadekvatna mreža ☒ kapacitet crpnih stanica ☒ nedovoljno rezervoara
☒ slabo održavanje distributivne mreže i sistema ☒ dotrajalost
☐ ostalo(navedite)

Po vašem mišljenju, koja su najveća ograničenja u vezi vodosnabdevanja u bliskoj budućnosti (narednih 25 - 30 godina)?

(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- ☒ gubici ☐ količina ☐ kvalitet ☒ cena vode ☐ zakonodavni i strateški okvir
☒ nedostatak finansijskih sredstava ☒ infrastruktura ☒ Kapaciteti: ☒ institucionalni ☒ tehnički ☒ ljudski
☐ ostalo(navedite):

Molimo Vas rangirajte po značaju aktivnosti i korake koji mogu poboljšati vodosnabdevanje u odnosu na prethodno pomenute probleme i otvorena pitanja?

(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- ☐ Više informacija o uticaju klimatskih promena na vodne resurse i budući razvoj/planiranje;
☐ Bolje razumevanje neizvesnosti u vezi klimatskih promena i njihovog uticaja na mere adaptacije;
☐ Više informacija o budućoj raspoloživosti vodnih resursa i planiranju/razvoju;
☐ Poboljšano znanje o načinu korišćenju zemljišta i zonama sanitarne zaštite;
☐ Više informacija o sigurnosti vodosnabdevanja u budućnosti;
☐ Poboljšanje upravljanja prekograničnim / regionalnim sistemima vodosnabdevanja;
☐ Razvoj zajedničkog protokola za prekogranične / regionalne sisteme vodosnabdevanja;
☐ Implementacija prioritarnih mera radi efikasnijeg upravljanja vodnim resursima i sistemima za vodosnabdevanje;
☐ Smanjenje gubitaka i kontinuirani monitoring procurivanja;
☐ Primena savremenih metodologija za kontinuirani monitoring: curenja, kvaliteta vode, rada pumpi, itd;
☐ Razvoj web stranice koja će unaprediti saradnju, razmenu i transfer znanja, koji se odnose na probleme u vodosnabdevanju i upravljanju vodnim resursima;
☐ Ostalo(navedite):

Da li smatrate da je neke probleme/otvorena pitanja od opšteg interesa/ multidisciplinarna (*cross-cutting*) moguće rešiti:

(Molimo Vas rangirajte ih na sledeći način: **1 najveći**, **5 najmanji** rang, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- ☐ Strateški pristup koji će rešiti većinu problema / otvorenih pitanja
- ☐ Individualne strategije i smernice razvoja koje će se baviti većinom pitanja
- ☐ Unapređenje saradnje među sektorima
- ☐ Bolja saradnja institucija na lokalnom i nacionalnom nivou
- ☐ Više finansijskih sredstava
- ☐ Cena vode
- ☐ Ostalo (navedite):

Koja su 3 najznačajnija aktera / aktivnosti za poboljšanje upravljanja sistemima za vodosnabdevanje i vodnim resursima?

Koje su aktivnosti koje Vaša institucija / organizacija može sprovesti radi poboljšanja upravljanja sistemima za vodosnabdevanje i vodnim resursima i doprineti njihovoj održivosti?

Da li smatrate da samo aktivnosti i mere na državnom nivou doprinose poboljšanju vodosnabdevanja?

☐ Da ☐ Ne

Ukoliko je odgovor "Ne", molimo Vas navedite ostale institucionalne nivoe od značaja:

U kojoj meri ste upoznati sa ulogom i aktivnostima bilateralnih komisija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima?

☐ Potpuno ☐ Umereno ☐ Nedovoljno

U kojoj meri ste upoznati sa ulogom i aktivnostima lokalnih institucija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje?

☐ Potpuno ☐ Umereno ☐ Nedovoljno

Da li postoji zakonodavni okvir (sporazumi, ugovori, Memorandum o razumevanju, i drugo) koji su značajni za prekogranično / regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima u Srbiji sa kojima ste Vi upoznati?

☐ Da ☐ Ne

Ukoliko je odgovor "Da", molimo Vas navedite naziv:

U kojoj meri ste upoznati sa problemima/otvorenim pitanjima i ograničenjima koja se odnose na prekogranične/regionalne vodne resurse?

☐ Potpuno ☐ Umereno ☐ Nedovoljno

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Stepen implementacije planova upravljanja prekograničnim slivovima:

☐ Završena ☐ U toku ☐ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Stepen implementacije planova upravljanja vodama na teritoriji Republike Srbije:

☐ Završena ☐ U toku ☐ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Koje su, po vašem mišljenju, najvažnije teme o kojima bi želeli da dobijete više informacija u vezano za prekogranično/regionalno upravljanje vodama i vodnim resursima ?

Da li smatrate da je ovaj tip radionica/okruglih stolova koristan:

☐ Da ☐ Ne ☐ Nemam stav

Dodatni komentari:



Saradnja radi poboljšanja vodosnabdevanja
na području Jadranskog sliva



UPITNIK O UPRAVLJANJU PREKOGRANIČNIM / REGIONALNIM SISTEMIMA ZA VODOSNABDEVANJE I VODNIM RESURSIMA

Aktivnosti koje se odnose na kapitalizaciju i održivost projekta su važna komponenta koja će poslužiti kao okvir za razmenu bitnih iskustva i znanja od značaja za prekogranične / regionalne sisteme vodosnabdevanja i vodne resurse. Predviđena je razmena informacija i podataka zainteresovanih strana, državnih institucija, naučno-istraživačkih organizacija, i drugo.

Informacije i odgovori prikupljeni tokom nacionalnih radionica, u svih 8 zemalja, predstavljaju veoma važne ulazne podatke i doprinose u velikoj meri uspešnoj realizaciji DRINKADRIA projekta.

Ime:	
Prezime:	
Institucija/ Organizacija:	
(Ukoliko želite da ostanete anonimni, niste u obavezi da popunite ovaj deo)	
Delokrug rada Vaše institucije/ organizacije:	
<input checked="" type="checkbox"/> Javno komunalno preduzeće <input type="checkbox"/> Institucije: <input type="checkbox"/> lokalna <input type="checkbox"/> regionalna <input type="checkbox"/> nacionalna <input type="checkbox"/> Istraživačka organizacija <input type="checkbox"/> Udruženje vodovoda <input type="checkbox"/> ostalo (molimo naznačite):	
Vaše radne aktivnosti se uglavnom odnose na:	
<input checked="" type="checkbox"/> vodosnabdevanje <input type="checkbox"/> zaštitu voda <input type="checkbox"/> obrazovanje/istraživanje <input type="checkbox"/> međunarodna saradnja <input type="checkbox"/> finansije/zakonodavstvo <input type="checkbox"/> ostalo, navedite:	
Vaše aktivnosti se, u prostornom smislu, najviše odnose na sledeći nivo: (Molimo Vas da koristite procentualnu procenu tako da ukupan zbir bude 100%) Primer : lokalni nivo -55%, nacionalni -25%, ostalo - 20% lokalni <u>10</u> %, regionalni _ %, nacionalni _ %, međunarodni _ %, ostalo(molimo Vas navedite) : _____, %	
Koji su trenutno najveći problemi i otvorena pitanja vezano za upravljanje sistemima za vodosnabdevanje? (Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema/otvorena pitanja)	
<input checked="" type="checkbox"/> Gubici <input checked="" type="checkbox"/> Količina <input type="checkbox"/> Kvalitet <input checked="" type="checkbox"/> Cena vode <input type="checkbox"/> Zakonodavni/ strateški okvir <input checked="" type="checkbox"/> Nedostatak finansijskih sredstava <input checked="" type="checkbox"/> Infrastruktura <input checked="" type="checkbox"/> Kapaciteti : <input checked="" type="checkbox"/> institucionalni <input checked="" type="checkbox"/> tehnički <input checked="" type="checkbox"/> ljudski <input type="checkbox"/> Klimatske promene <input type="checkbox"/> Nedovoljna saradnja <input type="checkbox"/> ostalo(navedite):	

Molimo Vas rangirajte sledeće koje detaljnije opisuju prethodno navedene probleme/otvorena pitanja :
(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

GUBICI

- ☒ neovlašćena potrošnja ☒ greške u merenju ☒ procurivanje u distributivnoj mreži
☒ curenje u vodovodnim objektima ☐ ostalo(navedite)

KOLIČINA

- ☒ porast potrošnje ☒ sezonske varijacije ☒ zapremina rezervoarskog prostora
☒ promene namene i koršćenja zemljišta ☒ velika potrošnja ostalih sektora (poljoprivreda, industrija, itd)
☒ klimatske promene ☐ ostalo(navedite)

KVALITET

- ☐ tačkasti izvori zagađenja ☐ rasuti izvori zagađenja ☒ problemi vezani za izvorišta
☒ promene namene i koršćenja zemljišta ☐ sezonske varijacije ☒ klimatske promene
☐ ostalo(navedite)

ORGANIČENJA U VODOSNABDEVANJU

- ☒ neadekvatna mreža ☒ kapacitet crpnih stanica ☒ nedovoljno rezervoara
☒ slabo održavanje distributivne mreže i sistema ☒ dotrajalost
☐ ostalo(navedite)

Po vašem mišljenju, koja su najveća ograničenja u vezi vodosnabdevanja u bliskoj budućnosti (narednih 25 - 30 godina)?

(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- ☒ gubici ☐ količina ☐ kvalitet ☒ cena vode ☐ zakonodavni i strateški okvir
☒ nedostatak finansijskih sredstava ☒ infrastruktura ☒ Kapaciteti: ☒ institucionalni ☒ tehnički ☒ ljudski
☐ ostalo(navedite):

Molimo Vas rangirajte po značaju aktivnosti i korake koji mogu poboljšati vodosnabdevanje u odnosu na prethodno pomenute probleme i otvorena pitanja?

(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- ☐ Više informacija o uticaju klimatskih promena na vodne resurse i budući razvoj/planiranje;
☐ Bolje razumevanje neizvesnosti u vezi klimatskih promena i njihovog uticaja na mere adaptacije;
☐ Više informacija o budućoj raspoloživosti vodnih resursa i planiranju/razvoju;
☐ Poboľjšano znanje o načinu korišćenju zemljišta i zonama sanitarne zaštite;
☐ Više informacija o sigurnosti vodosnabdevanja u budućnosti;
☐ Poboľjšanje upravljanja prekograničnim / regionalnim sistemima vodosnabdevanja;
☐ Razvoj zajedničkog protokola za prekogranične / regionalne sisteme vodosnabdevanja;
☐ Implementacija prioriternih mera radi efikasnijeg upravljanja vodnim resursima i sistemima za vodosnabdevanje;
☐ Smanjenje gubitaka i kontinuirani monitoring procurivanja;
☐ Primena savremenih metodologija za kontinuirani monitoring: curenja, kvaliteta vode, rada pumpi, itd;
☐ Razvoj web stranice koja će unaprediti saradnju, razmenu i transfer znanja, koji se odnose na probleme u vodosnabdevanju i upravljanju vodnim resursima;
☐ Ostalo(navedite):

Da li smatrate da je neke probleme/otvorena pitanja od opšteg interesa/ multidisciplinarna (*cross-cutting*) moguće rešiti:

(Molimo Vas rangirajte ih na sledeći način: **1 najveći** , **5 najmanji** rang, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- ☐ Strateški pristup koji će rešiti većinu problema / otvorenih pitanja
- ☐ Individualne strategije i smernice razvoja koje će se baviti većinom pitanja
- ☐ Unapređenje saradnje među sektorima
- ☐ Bolja saradnja institucija na lokalnom i nacionalnom nivou
- ☐ Više finansijskih sredstava
- ☐ Cena vode
- ☐ Ostalo (navedite):

Koja su 3 najznačajnija aktera / aktivnosti za poboljšanje upravljanja sistemima za vodosnabdevanje i vodnim resursima?

Koje su aktivnosti koje Vaša institucija / organizacija može sprovesti radi poboljšanja upravljanja sistemima za vodosnabdevanje i vodnim resursima i doprineti njihovoj održivosti?

Da li smatrate da samo aktivnosti i mere na državnom nivou doprinose poboljšanju vodosnabdevanja?

☐ Da ☐ Ne

Ukoliko je odgovor "Ne", molimo Vas navedite ostale institucionalne nivoe od značaja:

U kojoj meri ste upoznati sa ulogom i aktivnostima bilateralnih komisija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima?

☐ Potpuno ☐ Umereno ☐ Nedovoljno

U kojoj meri ste upoznati sa ulogom i aktivnostima lokalnih institucija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje?

☐ Potpuno ☐ Umereno ☐ Nedovoljno

Da li postoji zakonodavni okvir (sporazumi, ugovori, Memorandum o razumevanju, i drugo) koji su značajni za prekogranično / regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima u Srbiji sa kojima ste Vi upoznati?

☐ Da ☐ Ne

Ukoliko je odgovor "Da", molimo Vas navedite naziv:

U kojoj meri ste upoznati sa problemima/otvorenim pitanjima i ograničenjima koja se odnose na prekogranične/regionalne vodne resurse?

☐ Potpuno ☐ Umereno ☐ Nedovoljno

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Stepen implementacije planova upravljanja prekograničnim slivovima:

☐ Završena ☐ U toku ☐ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Stepen implementacije planova upravljanja vodama na teritoriji Republike Srbije:

☐ Završena ☐ U toku ☐ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Koje su, po vašem mišljenju, najvažnije teme o kojima bi želeli da dobijete više informacija u vezano za prekogranično/regionalno upravljanje vodama i vodnim resursima ?

Da li smatrate da je ovaj tip radionica/okruglih stolova koristan:

☐ Da ☐ Ne ☐ Nemam stav

Dodatni komentari:



Saradnja radi poboljšanja vodosnabdevanja
na području Jadranskog sliva



UPITNIK O UPRAVLJANJU PREKOGRANIČNIM / REGIONALNIM
SISTEMIMA ZA VODOSNABDEVANJE I VODNIM RESURSIMA

Aktivnosti koje se odnose na kapitalizaciju i održivost projekta su važna komponenta koja će poslužiti kao okvir za razmenu bitnih iskustva i znanja od značaja za prekogranične / regionalne sisteme vodosnabdevanja i vodne resurse. Predviđena je razmena informacija i podataka zainteresovanih strana, državnih institucija, naučno-istraživačkih organizacija, i drugo.

Informacije i odgovori prikupljeni tokom nacionalnih radionica, u svih 8 zemalja, predstavljaju veoma važne ulazne podatke i doprinose u velikoj meri uspešnoj realizaciji DRINKADRIA projekta.

Ime: Prezime: Institucija/ Organizacija: (Ukoliko želite da ostanete anonimni, niste u obavezi da popunite ovaj deo)	Tijana Tanacković Ministarstvo poljoprivrede, šumarstva i vodoprivrede, Agencija za vode
Delokrug rada Vaše institucije/ organizacije: <input type="checkbox"/> Javno komunalno preduzeće <input checked="" type="checkbox"/> Institucije: <input type="checkbox"/> lokalna <input type="checkbox"/> regionalna <input checked="" type="checkbox"/> nacionalna <input type="checkbox"/> Istraživačka organizacija <input type="checkbox"/> Udruženje vodovoda <input type="checkbox"/> ostalo (molimo naznačite):	
Vaše radne aktivnosti se uglavnom odnose na: <input checked="" type="checkbox"/> vodosnabdevanje <input checked="" type="checkbox"/> zaštitu voda <input type="checkbox"/> obrazovanje/istraživanje <input type="checkbox"/> međunarodna saradnja <input checked="" type="checkbox"/> finasije/zakonodavstvo <input type="checkbox"/> ostalo, navedite:	
Vaše aktivnosti se, u prostornom smislu, najviše odnose na sledeći nivo: <i>(Molimo Vas da koristite procentualnu procenu tako da ukupan zbir bude 100%)</i> Primer : lokalni nivo -55%, nacionalni -25%, ostalo - 20% lokalni _ %, regionalni _ %, nacionalni ¹⁰⁰ _ %, međunarodni _ %, ostalo(molimo Vas navedite) : _____, %	
Koji su trenutno najveći problemi i otvorena pitanja vezano za upravljanje sistemima za vodosnabdevanje? <i>(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema/otvorena pitanja)</i> <input checked="" type="checkbox"/> Gubici <input checked="" type="checkbox"/> Količina <input checked="" type="checkbox"/> Kvalitet <input checked="" type="checkbox"/> Cena vode <input checked="" type="checkbox"/> Zakonodavni/ strateški okvir <input checked="" type="checkbox"/> Nedostatak finasijskih sredstava <input checked="" type="checkbox"/> Infrastruktura <input checked="" type="checkbox"/> Kapaciteti : <input type="checkbox"/> institucionalni <input checked="" type="checkbox"/> tehnički <input type="checkbox"/> ljudski <input checked="" type="checkbox"/> Klimatske promene <input checked="" type="checkbox"/> Nedovoljna saradnja <input type="checkbox"/> ostalo(navedite):	

Molimo Vas rangirajte sledeće koje detaljnije opisuju prethodno navedene probleme/otvorena pitanja :
(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

GUBICI

- ☒ neovlašćena potrošnja ☒ greške u merenju ☒ procurivanje u distributivnoj mreži
☒ curenje u vodovodnim objektima ☐ ostalo(navedite)

KOLIČINA

- ☒ porast potrošnje ☒ sezonske varijacije ☒ zapremina rezervoarskog prostora
☒ promene namene i koršćenja zemljišta ☒ velika potrošnja ostalih sektora (poljoprivreda, industrija, itd)
☒ klimatske promene ☐ ostalo(navedite)

KVALITET

- ☒ tačkasti izvori zagađenja ☒ rasuti izvori zagađenja ☒ problemi vezani za izvorišta
☒ promene namene i koršćenja zemljišta ☒ sezonske varijacije ☒ klimatske promene
☒ ostalo(navedite) → *Prečišćavanje*

ORGANIČENJA U VODOSNABDEVANJU

- ☒ neadekvatna mreža ☒ kapacitet crpnih stanica ☒ nedovoljno rezervoara
☒ slabo održavanje distributivne mreže i sistema ☒ dotrajalost
☐ ostalo(navedite)

Po vašem mišljenju, koja su najveća ograničenja u vezi vodosnabdevanja u bliskoj budućnosti (narednih 25 - 30 godina)?

(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- ☒ gubici ☒ količina ☒ kvalitet ☒ cena vode ☒ zakonodavni i strateški okvir
☒ nedostatak finansijskih sredstava ☒ infrastruktura ☒ Kapaciteti: ☐ institucionalni ☒ tehnički ☐ ljudski
☐ ostalo(navedite):

Molimo Vas rangirajte po značaju aktivnosti i korake koji mogu poboljšati vodosnabdevanje u odnosu na prethodno pomenute probleme i otvorena pitanja?

(Molimo Vas rangirajte ih na sledeći način: 1 najveći , 5 najmanji, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- ☒ Više informacija o uticaju klimatskih promena na vodne resurse i budući razvoj/planiranje;
☒ Bolje razumevanje neizvesnosti u vezi klimatskih promena i njihovog uticaja na mere adaptacije;
☒ Više informacija o budućoj raspoloživosti vodnih resursa i planiranju/razvoju;
☒ Poboljšano znanje o načinu korišćenju zemljišta i zonama sanitarne zaštite;
☒ Više informacija o sigurnosti vodosnabdevanja u budućnosti;
☒ Poboljšanje upravljanja prekograničnim / regionalnim sistemima vodosnabdevanja;
☒ Razvoj zajedničkog protokola za prekogranične / regionalne sisteme vodosnabdevanja;
☒ Implementacija prioriternih mera radi efikasnijeg upravljanja vodnim resursima i sistemima za vodosnabdevanje;
☒ Smanjenje gubitaka i kontinuirani monitoring procurivanja;
☒ Primena savremenih metodologija za kontinuirani monitoring: curenja, kvaliteta vode, rada pumpi, itd;
☐ Razvoj web stranice koja će unaprediti saradnju, razmenu i transfer znanja, koji se odnose na probleme u vodosnabdevanju i upravljanju vodnim resursima;
☐ Ostalo(navedite):

Da li smatrate da je neke probleme/otvorena pitanja od opšteg interesa/ multidisciplinarna (cross-cutting) moguće rešiti:

(Molimo Vas rangirajte ih na sledeći način: **1 najveći**, **5 najmanji** rang, moguće je dodeliti identičan rang za najviše 2 problema / otvorena pitanja)

- ☒ Strateški pristup koji će rešiti većinu problema / otvorenih pitanja
- ☒ Individualne strategije i smernice razvoja koje će se baviti većinom pitanja
- ☒ Unapređenje saradnje među sektorima
- ☒ Bolja saradnja institucija na lokalnom i nacionalnom nivou
- ☒ Više finansijskih sredstava
- ☒ Cena vode
- ☐ Ostalo (navedite):

Koja su 3 najznačajnija aktera / aktivnosti za poboljšanje upravljanja sistemima za vodosnabdevanje i vodnim resursima?

1. odvajanje više sredstava za potrebe vodosnabdevanja
2. održavanje već izgrađenih sistema
3. praćenje stanja

Koje su aktivnosti koje Vaša institucija / organizacija može sprovesti radi poboljšanja upravljanja sistemima za vodosnabdevanje i vodnim resursima i doprineti njihovoj održivosti?

Odvajanje više sredstava za potrebe vodosnabdevanja, saradnja i koordinacija postojećih sistema, finansiranje izgradnje neopisanih sistema, praćenje stanja

Da li smatrate da samo aktivnosti i mere na državnom nivou doprinose poboljšanju vodosnabdevanja?

☐ Da ☒ Ne

Ukoliko je odgovor "Ne", molimo Vas navedite ostale institucionalne nivoe od značaja:

Instituti koji se bave ovim problemom

U kojoj meri ste upoznati sa ulogom i aktivnostima bilateralnih komisija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima?

☐ Potpuno ☐ Umereno ☒ Nedovoljno

U kojoj meri ste upoznati sa ulogom i aktivnostima lokalnih institucija koje su bitne za prekogranično/regionalno upravljanje sistemima za vodosnabdevanje?

☐ Potpuno ☐ Umereno ☒ Nedovoljno

Da li postoji zakonodavni okvir (sporazumi, ugovori, Memorandum o razumevanju, i drugo) koji su značajni za prekogranično / regionalno upravljanje sistemima za vodosnabdevanje i vodnim resursima u Srbiji sa kojima ste Vi upoznati?

☐ Da ☒ Ne

Ukoliko je odgovor "Da", molimo Vas navedite naziv:

U kojoj meri ste upoznati sa problemima/otvorenim pitanjima i ograničenjima koja se odnose na prekogranične/regionalne vodne resurse?

☐ Potpuno ☐ Umereno ☒ Nedovoljno

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Stepen implementacije planova upravljanja prekograničnim slivovima:

☐ Završena ☒ U toku ☐ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Stepen implementacije planova upravljanja vodama na teritoriji Republike Srbije:

☐ Završena ☒ U toku ☐ Nije počela

Molimo vas dodajte komentare ukoliko smatrate za shodno:

Koje su, po vašem mišljenju, najvažnije teme o kojima bi želeli da dobijete više informacija u vezano za prekogranično/regionalno upravljanje vodama i vodnim resursima ?

Da li smatrate da je ovaj tip radionica/okruglih stolova koristan:

☒ Da ☐ Ne ☐ Nemam stav

Dodatni komentari:

ANNEX 8: NATIONAL DATA SLOVENIA

Vabilo na delavnico projekta **DRINKADRIA**

- predstavitev projekta in začetek postopka komunikacije z deležniki -

(uvodna nacionalna delavnica)

Projekt DRINKADRIA je bil prijavljen in potrjen v okviru programa IPA ADRIATIC (<http://www.adriaticipacbc.org/>) kot strateški projekt, ki naslavlja področje regionalnega sodelovanja in izboljšanja oskrbe s pitno vodo na območju jadranske makroregije. Pomemben izziv, ki ga izpostavlja predlagani projekt, je izboljšanje izvajanja čezmejne oskrbe s pitno vodo. Na območju obravnavane makroregije je zaradi zgodovinskih razlogov čezmejna oskrba s pitno vodo dokaj pogosta, žal pa je zaradi številnih težav pri upravljanju z njo pogosto v različnih fazah nazadovanja.

Redki primeri novega razvoja čezmejne vodooskrbe po drugi strani jasno kažejo na njen pomen, ki v sami osnovi pomeni dvig zanesljivosti in varnosti oskrbe s pitno vodo, po drugi strani pa pogosto tudi ekonomsko ustrežnejše rešitve. Projekt DRINKADRIA poleg same oskrbe s pitno vodo vključuje tudi upravljanje s čezmejnimi vodnimi viri, saj šele obe komponenti predstavljata zaključeni okvir kakovostne dobavljene vode in zadovoljnega končnega uporabnika.

Projekt se je s podpisom pogodb začel decembra 2013 in se bo zaključil marca 2016. Z delavnico pričenjamo tudi zelo interaktiven odnos z deležniki izven projekta, med katerimi želimo predvsem izpostaviti nacionalne strukture upravljanja z vodami ter druge upravljavce vodovodnih sistemov, ki lahko preko projekta pričakujejo zelo konkretne rezultate za izboljšanje upravljanja in oskrbe s pitno vodo.

Delavnica bo potekala dne **24.4.2014** v prostorih Univerze v Ljubljani, Fakulteta za gradbeništvo in geodezijo,

Hajdrihova 28, učilnica H-10 s pričetkom ob 8.30.

Udeležba na delavnici je brezplačna, prosimo za registracijo udeležencev na elektronski naslov: vesna.vidmar@fgg.uni-lj.si do petka, **18.4.2014**.

Vljudno vabljeni,



dr. Primož Banovec

Program Uvodne nacionalne delavnice v okviru projekta DRINKADRIA,

Fakulteta za gradbeništvo in geodezijo,

Hajdrihova 28 (PREDAVALNICA H-10), dne 24.4.2014 ob 8:30

Čas	Predavatelji	Naslov prispevka
8.30	REGISTRACIJA	
9.00	UVODNI NAGOVORI	
	Izr. prof. dr. Dušan Žagar (Predstojnik Oddelka za okoljsko gradbeništvo)	Uvodni nagovor v imenu UL FGG
9.10-10.45	UVODNA PREDAVANJA	
9.10	mag. Iztok Rozman (Ministrstvo za kmetijstvo in okolje, Vodja sektorja za upravljanje z vodami)	Oskrba s pitno vodo – pomen povezovanja vodovodnih sistemov za zagotavljanje zanesljive oskrbe s pitno vodo
9.30	dr. Mitja Bricelj (Ministrstvo za kmetijstvo in okolje)	Bilateralno meddržavno sodelovanje in oskrba s pitno vodo
9.45	dr. Primož Banovec (UL FGG)	Projekt DRINKADRIA – izhodišča, cilji in program del projekta in okvir izvajanja čezmejne vodooskrbe in vsebine, ki bodo v projektu obdelane.
10.15	doc. dr. Barbara Čenčur Curk (UL NTF)	Integralni pomen čezmejnega upravljanja s podzemnimi vodami v okviru čezmejne vodooskrbe
10.45-11.15	ODMOR	
11.-15-12.30	PREDAVANJA	
11.15	Matjaž Hvalič (Vodovodi in kanalizacija Nova Gorica)	Predstavitev pilotnega projekta v okviru projekta DRINKADRIA – namen pilotnega projekta in izkušnje čezmejne vodooskrbe
11.30	Matej Cerk (UL FGG)	Integracija informacij za potrebe izboljšanja čezmejne vodooskrbe
11.45	Vesna Vidmar (UL FGG)	Komponente izvajanja čezmejne vodooskrbe – tehnični, pravni in inženirski vidiki
12.00	Diskusija – predstavitev situacije pri upravljalcih vodovodnih sistemov v mejnih območjih	
12.30-12.45	ZAKLJUČKI in program nadaljnjega dela (dr. Primož Banovec)	



PARTNERJI

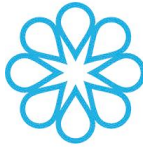
Area Council for Eastern Integrated Water Service of Trieste (CATO)	Italija
VERTAS Joint Stock Company – Multiutility Water Service of Venice	Italija
OPTIMAL TERRITORIAL AREA AUTHORITY N.3 MARCHE CENTRO-MACERATA	Italija
Italian National Council-Water Research Institut (CNR-IRSA)	Italija
Water Utility of Nova Gorica – Sector of Development and Investment	Slovenija
University of Ljubljana – Faculty of Civil Engineering and Geodesy	Slovenija
Region of Istria – Administrative Department for Sustainable Development – Department for Nature and Environmental protection	Hrvaška
Water utility of Istria – Team for installation remote reading system for water meters	Hrvaška
University of Rijeka – Faculty of Civil Engineering	Hrvaška
Croatian Geological Survey – Department of hydrogeology and engineering geology	Hrvaška
Institute for Development of Water Resources 'Jaroslav Černi' – The Department of Water Supply, Sewerage, AND Water Protection	Srbija
Water Supply and Sewerage Association of Albania	Albani'a
Hydro-Engineering Institute of Sarajevo Faculty of Civil Engineering	Bosna in Hercegovina
P. C. UTILITY NEUM	Bosna in Hercegovina
Public utility 'Vodovod i kanalizacija' Niksic – Technical Department	Črna gora
Region of Ionian Islands – Directorate of Developmental Programming	Grčija

Univerza v Ljubljani



TRAJNOST REZULTATOV PROJEKTA

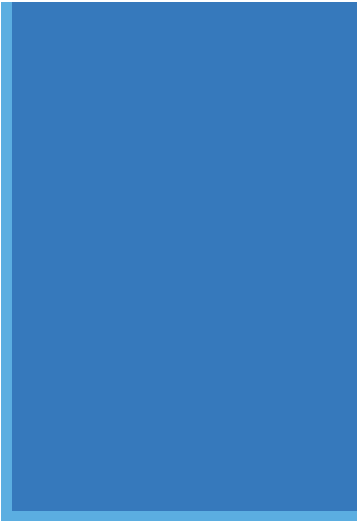
DOLOČANJE CENE VODE



DRINK ADRIA

USMERJENOST K UPORABNIKU

Uporabniki v prvi vrsti želijo zanesljivo oskrbo s kvalitetno pitno vodo po sprejemljivi ceni. Pri tem sam uporabnik nima želje po tem, da je njegova voda določene nacionalnosti. Vprašanja vezana na zanesljivost so povezana z večjo potrebo po čezmejni poveztivosti vodovodnih sistemov vsaj za izredne primere izpada vodnih virov npr. zaradi izrednih hidroloških razmer ali onesnaženja. Vprašanje cene vode za uporabnika je pogosto povezano z vprašanjem ali je nacionalna rešitev za oskrbo s pitno vodo povezana z nesorazmerno visokimi stroški.

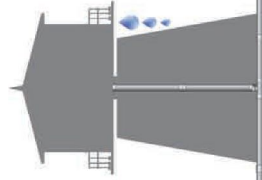


Date: pet apr 18 2014



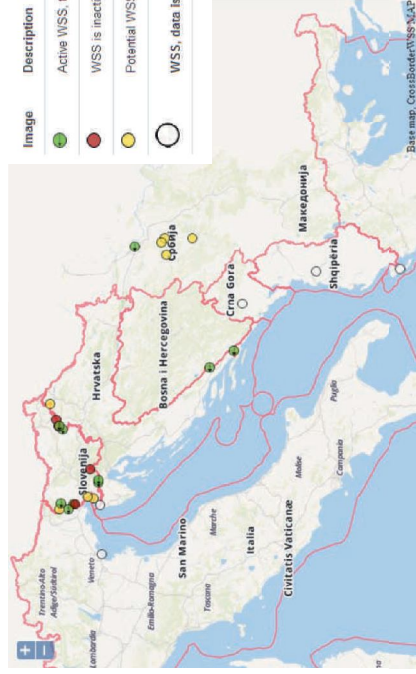
OSNOVNE INFORMACIJE O PROJEKTU

- 16 partnerjev in 10 opazovalnih institucij iz Italije, Slovenije, Hrvaške, Bosne in Hercegovine, Srbije, Črne gore, Albanije in Grčije.
- Trajanje projekta je 29 mesecev, začetek projekta november 2013, zaključek marec 2016.
- Jadranski čezmejni program IPA 2007-2013.
- Celotni proračun: 6.643.640,36 €.
- Pilotno območje v Republiki Sloveniji je v Novi Gorici.



MEJE: DRŽAVNE, REGIONALNE, LOKALNE

Projekt DRINKADRIA v osnovi naslavlja čezmejno vodooskrbo. Pri izvajanju projekta smo zelo hitro ugotovili, da meje niso samo državne ampak tudi kantonalne, regionalne in lokalne. Izvizi izvajanja oskrbe s pitno vodo so na teh mejah pogosto izredno podobni izzivom, ki jih postavljajo državne meje. Zato bodo rezultati projekta uporabni tudi za izboljšanje okvirov v katerih delujejo ti sistemi oskrbe s pitno vodo.



Platforma DRINKADRIA GIS

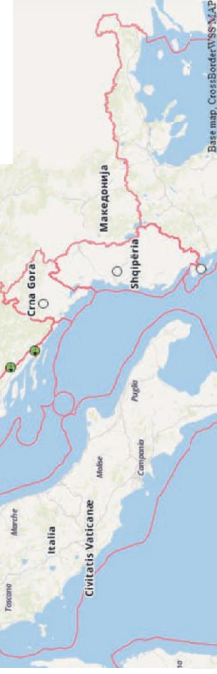
(vir: <http://drinkadria.fgg.uni-lj.si>)



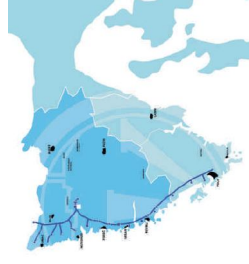
ČEZMEJNI VIRI PITNE VODE

Potrebo po skupni opredelitvi in varovanju vodnih virov, ki so namenjeni oskrbi prebivalcev s pitno vodo, je opredeljena že z okvirno direktivo o vodah (EU 2000/60) in bo uveljavljena z načrti upravljanja z vodami. Trenutno realnost varovanja vodnih virov temelji na nacionalnih okvirih in tako npr. v Sloveniji ni opredeljenih vodovarstvenih območij za črpališča na ozemlju Republike Hrvaške in obratno. Poenoten pristop k varovanju čezmejnih vodonosnikov je ključnega pomena za zagotavljanje varne vodooskrbe.

Image	Description
	Active WSS, the arrow of the water flow has not been yet set.
	WSS is inactive
	Potential WSS
	WSS, data is being collected



Vodovodni sistem Gradile (vir: Istarski vodovodi)


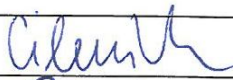

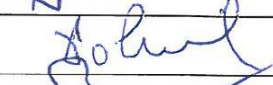

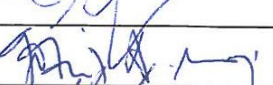
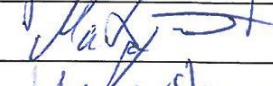

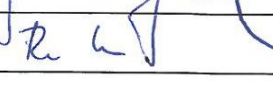



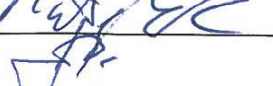





PRIMERI ČEZMEJNE OSKRBE S PITNO VODO



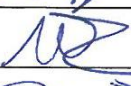

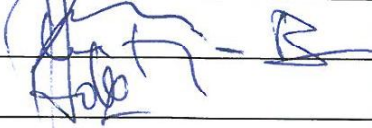
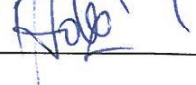
Številni partnerji v projektu DRINKADRIA že imajo praktične izkušnje s čezmejno vodooskrbo. Slovenski partner Vodovodi in kanalizacija Nova Gorica na podlagi Pariške mirovne pogodbe in Osimskih sporazumov že desetletja dobavlja vodo uporabnikom na italijanski strani meje. Podobno hrvaški partner Istarski vodovodi trajno dobavljajo vodo iz vodnega vira Gradole slovenskim uporabnikom na temeljih pogodbe na osnovi katere se je navedeni vodni vir razvil v obdobju med letoma 1960 in 1984, torej še v času skupne države Jugoslavije. Tudi Vodovodi Neum, ki dobavljajo vodo uporabnikom na hrvaški strani, so se razvili v času skupne države, kar je opredeljevalo zasnovo vodovodnega sistema. Vsi navedeni sistemi se srečujejo z različnimi problematikami, ki jih opredeljuje predvsem zahtevnost usklajevanja realnosti obratovanja v čezmejnem okviru.



Projekt DRINKADRIA – uvodna nacionalna delavnica	
Kraj:	Ljubljana, Hajdrihova 28
Datum:	24.4.2014
Namen:	Seznam prisotnosti

	Ime in priimek	Institucija	Podpis
1.	Banovec Primož	UL FGG	
2.	Bricelj Mitja	MKO	
3.	Cilenšek Ajda	UL FGG	
4.	Čenčur Curk Barbara	UL NTF	
5.	Dobnik Ivan	Komunala Ptuj	
6.	Fabiani Peter	Kraški vodovod sežana	
7.	Gašparac Antun	Hydrovod	
8.	Gornik Alenka-Mojca	MKO	
9.	Hvalič Matjaž	VIK-NG	
10.	Junež Miran	OKP	
11.	Justin Nataša Jordan	Hydrovod	
12.	Kirn Tina	Inštitut za vode RS	
13.	Kobilšek Urh	OKP	
14.	Korošec Tjaša	Kraški vodovod sežana	
15.	Kolman Gregor	IZVRS	
16.	Kozorog Kristina	Komunala Tolmin	
17.	Matej Cerkl	UL FGG	
18.	Nanut Iztok	Komunala Tolmin	



	Ime in priimek	Institucija	Podpis
19.	Rozman Iztok	MKO	
20.	Souvent Petra	ARSO	P. Souvent
21.	Stropnik Petra	KP Velenje	Stropnik
22.	Vidmar Vesna	UL FGG	Vidmar
23.	Žagar Dušan	UL FGG	
24.	KRANJC JAKA	EBM	Kranjc
25.	PETRA VRHONIK	UL NTF	
26.	PETRA ZVAB ROŽAR	UL NTF	Petra Zvab Rožar
27.	GS PAN MARKO	VO-KA-L3	
28.	MTIJE BRČIČ	OTRO	
29.	RICARDO SILVANI	ABEASAPS spa	
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	Ime in priimek	Institucija	Podpis
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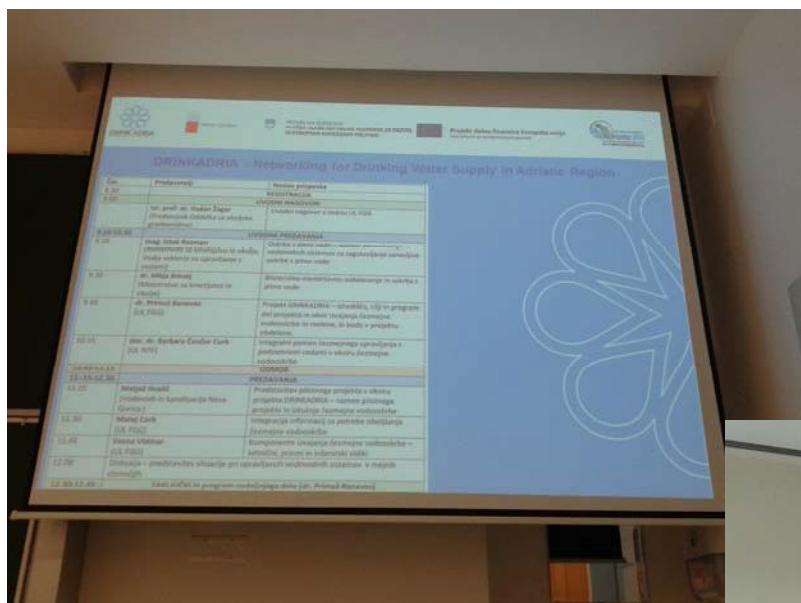
Report on the 1st capitalization workshop for DRINKADRIA stakeholders in Slovenia

On the 24th of April the first capitalization workshop for the stakeholders in Slovenia was performed. It was organized at the location of University of Ljubljana, Faculty of Civil and Geodetic Engineering. The workshop invitation was sent to all water utilities (approx. 100 invitations) by letter and all local communities (by email). In addition to that all water utilities that are positioned along the borders with Italy and Croatia were contacted by phone and the DRINKADRIA concepts together with the necessity for their active participation at the workshop was explained. Different institutions at the state level: responsible ministries, agencies, and public institutes: Institute of Geology, Geotechnics and Geophysics, Institute for Water of the Republic of Slovenia were invited. The workshop was also shared through the PR network of the UL FGG to different mass media. For the workshop a brochure was developed explaining the basic outlines of the Drinkadria project inviting reader for further reading of the information available on Drinkadria web page.

The response was limited taken into consideration that more than 300 invitations were issued. Nevertheless it was good that some key stakeholders were involved, where the participation of several water utilities coming from the border zones with Croatia and Italy. The programme of the workshop was performed according to the foreseen schedule. By this the most important priorities of the workshop were implemented:

- (1) To rise a general knowledge among the target stakeholders on the importance of the cross-border water supply systems and importance of the more efficient management of the cross-border water resources used for drinking water supply, with the related aims of the Drinkadria project and the foreseen outputs/results that will be realized during the project.
- (2) To get some important discussions and active feedback from the participants. The feedback was registered in following forms. (a) reporting template for the WP3, filled by the participants (b) active voting system which was performed during the lecture on the active Drinkadria platform – all the participants from the water utilities voted/expressed their interest to participate as active stakeholders in the Drinkadria projekt in the use and validation of the tool that are foreseen for the development in the Drinkadria platform. (c) general discussion which was encouraged during the workshop. Some outlines from the general discussion are:
 - a. The participants are not adequately aware in their role in the process of the river basin management plans, especially water utilities are very much without information on their specific role, which stretches sometimes far beyond the narrow understanding of the water utilities as pure service providers.
 - b. The water pricing issue was stressed as very important. As the national legislation is providing some framework for the water pricing mechanism, but the water supply economics foreseen for the development in the Drinkadria project seems important for the participants.

The participants agreed to maintain the contact and develop a “core” of the national DRINKADRIA stakeholder group, which could later incorporate many other stakeholders as well.



REPORT FOR NATIONAL WORKSHOP WP3 QUESTIONNAIRES (24.4.2014 Ljubljana)

We held a national workshop on 24.4.2014 in Ljubljana. The questionnaires on cross border /regional water resources management and water supply systems were given to all participants at the end of first part of workshop. We have analysed all answered questionnaires.

Majority of participants works in water utility. Four of them came from authority institution (MKO and ARSO) and one from NGO. Activities are mainly focused in water supply and only few of them work on water protection. Most significant water supply issues are water losses and water quality strongly followed by infrastructure. An important factor is also climate change. Least significant issues are policies & legislation framework, water tariffs and weak cooperation. It was also pointed out that one of problems is vulnerability to pollution.

A list of suggestions of most important steps and activities that would improve water supply is following:

1. Further work on reducing water losses.
2. Better cooperation between all involved participants (authority - local, regional, national, water utility managers and customers).
3. Better financing.
4. Better maintenance of infrastructure.
5. Adjustment to climatic changes.
6. Recognizing the strategic importance at the administrative level, and this in concrete terms: capacity-building, financing, adequate infrastructure, long-term planning
7. Finding new water resources.

Most cross-cutting issues can be solved by better cooperation among different sectors and better cooperation among local and national authorities. Some believe that a policy, which would address the majority of issues, is missing. They think more financial resources is least significant, first should be solved other issues.

Three significant actors for improved water supply and their priority tasks are listed:

1. Local community: a. investments into infrastructure, b. protection of water resources, c. monitoring of work in water utility.
2. Country (on national level): a. determining water prices, b. giving more financial resources, c. providing good and quality national legislation.
3. Utility managers: a. performing quality service.

Every organization can do several things to improve water supply and contribute to its sustainability:

- 1.) Investments into infrastructure (renovation of pipelines).
- 2.) Yearly reporting of current state.
- 3.) Controlled assigning of water rights.
- 4.) Quicker repairs after discovered pipe bursts.
- 5.) Improved control over water supply system.
- 6.) Better maintenance of WSS network.
- 7.) Regular monitoring of water resources.
- 8.) Dissemination of results.
- 9.) Raise awareness about the importance of sustainable drinking water supply.

Most participants think that only state activities are not enough to contribute to improved water supply. They think that are also significant: municipalities, water supply systems and providers of public service. There was a note that municipalities as owners of the infrastructure should be more interested in improving water supply.

Most of participants have deficient knowledge of roles and activities of bilateral commissions for cross-border water supply. One half of participants has moderate and other half has deficient knowledge of role and activity of local authorities of significance for cross-border water supply. Most participants agree that there is no significant legislative framework that would be regulating cross-border water supply in Slovenia. Familiarity with issues and constraints regarding cross-border water resources is moderate (one half of participants) or deficient (another half of participants).

About status of implementation level of River basin Management Plans at the national level most participants agree that is ongoing and some are not familiar with the topic. About status of implementation level of River basin Management Plans (trans boundary river basins) most participants agree that is ongoing and some are not familiar with the topic.

Most important topic, that participants would like to become more familiar regarding to cross-border water supply systems, is quantitative status of water resources.

Most of participants agree that this type of workshops is useful.

Networking for Drinking Water Supply in Adriatic Region

VPRASHALNIK O ČEZMEJNIH OZ. MEOBČINSKIH SISTEMIH OSKRBE S PITNO VODO IN
UPRAVLJANJU Z VODNIMI VIRI

Prenos vsebin projekta v prakso in trajni učinki projekta so pomembna vsebina projekta, ki postavlja okvir za izmenjavo informacij o pomenu čezmejne oskrbe s pitno vodo med različnimi deležniki.

Informacije, ki jih boste podali preko tega vprašalnika bodo osnova za nadaljnje delo in podoba pomembno vplivale na uspešno izvajanje projekta DRINKADRIA.

Ime:	PETRA
Priimek:	STROPNIK
Organizacija (vsebin ni potrebno izpolniti)	KPV

Glavno področje dela vaše organizacije:

☒ Izvajalec javne službe oskrbe s pitno vodo ☐ Uprava: ☐ lokalna ☐ regionalna ☐ državna
☐ Raziskovalna organizacija ☐ Združenje ☐ Drugo (prosimo navedite):

Glavno področje dela:

☒ oskrba s pitno vodo ☐ varovanje voda ☐ izobraževanje/raziskave
☐ mednarodno sodelovanje ☐ finančni vidiki/pravo ☐ Drugo (prosimo navedite):

Kateri prostorski okvir najbolj opredeljuje vase dejavnosti in naloge?
(Prosimo uporabite odstotno oceno področja tako, da je vsota 100%)

Lokalno 10 % regionalno % državno % mednarodno % drugo (navedite): , %

Katere problem na področju oskrbe s pitno vodo trenutno prepoznavate kot najbolj pomembne?
(Prosimo razvrstite: 1 najbolj do, 5 najmanj pomembne, isti nivo je mogoče opredeliti največ dvema)

☒ 1 vodne izgube ☒ 1 vodne količine ☒ 2 kakovost vode ☒ 3 Cena vode
☒ 3 zakonski okvir in opredelitev prioritet ☒ 2 težave s financiranjem ☒ 4 Stanje infrastrukture
☐ kapacitete : ☐ institucij ☐ tehnične kapacitete ☐ človeški viri
☐ Klimatske spremembe ☐ Slabo sodelovanje ☐ Drugo (opišite):

DRINKADRIA standardni vprašalnik za deležnike
WP3 kapitalizacija in trajnost

Prosimo opredelite prioritete glede prej navedenih problemskih sklopov:
(Prosimo razvrstite: od (1)- najbolj do (5) - najmanj pomembne, isti nivo je mogoče opredeliti največ dvema)

VODNE IZGUBE

- ☒ nedovoljeni odvzemi ☒ napake pri meritvah porabe vode ☒ dejanske izgube na distribuciji
☒ izgube na priključkih ☒ izgube na objektih (npr. Prelivanje vodohramov)
☐ druge (navedite):

VODNE KOLIČINE

- ☒ povečanje rabe vode ☒ sezonska nihanja porabe ☒ kapacitete za shranjevanje vode
☒ sprememba rabe zemljišč ☒ visoka poraba dejavnosti (kmetijstvo, industrija), etc)
☒ Klimatske spremembe ☒ padec porabe
☐ drugo (prosimo navedite):

KAKOVOST VODE

- ☒ točkovni pritiski onesnaženja ☒ netočkovni pritiski onesnaženja ☒ režim varovanja vodnih virov
☒ spremembe v rabi zemljišč ☒ sezonska nihanja ☒ Klimatske spremembe
☒ nova in prioriteta onesnaževala ☐ drugo (prosimo navedite)

OMEJITVE VEZANE NA DISTRIBUCIJO VODE

- ☒ neprimerno omrežje (zasnova) ☒ kapacitete črpalnic ☒ neustreznost vodohranov
☒ pomanjkljivo vzdrževanje vodovodnega Sistema ☒ staranje
☐ drugo, prosimo navedite:

Katere so po vašem mnenju glavne omejitve glede oskrbe s pitno vodo v bližnji prihodnosti (čez 25 let)?
(Prosimo razvrstite: od (1)- najbolj do (5) - najmanj pomembne, isti nivo je mogoče opredeliti največ dvema)

- ☒ vodne izgube ☒ vodne količine ☒ kakovost vode ☒ Cena vode
☒ zakonski okvir in opredelitev prioritete ☒ težave s financiranjem ☒ Stanje infrastrukture
☐ kapacitete : ☐ institucij ☐ tehnične kapacitete ☐ človeški viri
☐ Klimatske spremembe ☐ Slabo sodelovanje ☐ Drugo (opišite):

Katere ukrepe oz. dejavnosti prepoznavate kot najbolj pomembne za izboljšanje oskrbe s pitno vodo glede na predhodno opredeljene probleme in omejitve?

- razširitev / posodobitev sistema
- optimizacija obkroževanja (zmanjšanje vodnih izgub)
- uporabihihi prijazna vodovodna;

DRINKADRIA standardni vprašalnik za deležnike
WP3 kapitalizacija in trajnost

Ali menite da bi bilo mogoče navedene probleme in omejitve reševati z:

(Prosimo razvrstite: od (1)- najbolj do (5) - najmanj pomembne, isti nivo je mogoče opredeliti največ dvema)

- ☒ 5 Povezanimi politikami in programi, ki bi naslovile večino področij,
- ☒ 5 Ločenimi politikami in programi, ki bi naslovile večino področij,
- ☒ 1 Boljšim sodelovanjem med različnimi sektorji,
- ☒ 2 Boljšim sodelovanjem med lokalnim in državnim nivojem,
- ☒ 4 Več finančnimi viri,
- ☒ 5 Višjimi cenami vode,
- ☐ Drugo (navedite):

Prosimo navedite tri najpomembnejše deležnike, ki jih prepoznavate za izboljšanje oskrbe s pitno vodo in upravljanja z vodnimi viri in njihove naloge:

- 1) financiranje obnov naloga: obnoviti dotrajani avto-vode
- 2) zmanjšanje vodnih izgub naloga: zmanjšanje tesnosti / ustrezne meritve
- 3) kvaliteta vode naloga: nadzor nad kvaliteto, pravočasno ukrepanje v primeru odstopanj

Katere naloge/ukrepe bi lahko vaša organizacija izvedla, da bi izboljšala oskrbo s pitno vodo in upravljanje z vodami in prispevala k njihovi trajnostni uspešnosti in učinkovitosti? - navedeno zgoraj

Ali menite, da le ukrepi na državnem nivoju prispevajo k izboljšanju oskrbe s pitno vodo in varovanju virov?

☐ DA ☒ NE

Če je odgovor ne, katere institucije po vašem mnenju še imajo pomembno vlogo?

- občine, kot lastnice infrastrukture bi se morale bolj zavzeti za izboljšanje vodoskrbe

Do katere mere ste seznanjeni z delom in vlogo Dvostranskih meddržavnih komisij na področju čezmejne oskrbe s pitno vodo in upravljanja z vodami?

☐ Celovito seznanjen z delom ☐ Zmerno seznanjen ☒ Pomanjkljivo seznanjen

Do katere mere ste seznanjeni z delom in vlogo lokalnih skupnosti na področju čezmejne/medobčinske oskrbe s pitno vodo in upravljanja z vodami?

☐ Celovito seznanjen z delom ☒ Zmerno seznanjen ☐ Pomanjkljivo seznanjen

DRINKADRIA standardni vprašalnik za deležnike
WP3 kapitalizacija in trajnost

Ali ste seznanjeni s pravnim okvirom (pogodbe, dogovori, memorandum, protokoli...) na podlagi katerih se izvajajo čezmejna oz. medobčinska oskrba s pitno vodo in upravljanje z vodami v vaši državi (regiji)?

☐ DA ☒ NE

Če je odgovor DA prosimo, da kratko navedete katere poznate:

Do katere mere ste seznanjeni vprašanji in omejitvami vezanimi na čezmejno oskrbo s pitno vodo in upravljanje z vodami?

☐ Celovito seznanjen ☐ Zmerno seznanjen ☒ Pomanjkljivo seznanjen
Prosimo za dodatne komentarje:

Izvajanje okvirne vodne direktive in priprava načrtov upravljanja z vodami v vaši državi je :

☐ Zaključeno ☐ V teku ☒ Se začena ☐ Nisem seznanjen

Prosimo za dodatne komentarje:

Izvajanje okvirne vodne direktive in priprava načrtov upravljanja z vodami na čezmejnih vodnih telesih je :

☐ Zaključeno ☐ V teku ☒ Se začena ☐ Nisem seznanjen

Prosimo za dodatne komentarje:

Katere so najbolj pomembne vsebine s katerimi bi želeli biti seznanjeni/se poglobiti glede čezmejne/regionalne oskrbe s pitno vodo in upravljanja z vodami.

Ali je uvodna delavnica projekta DRINKADRIA izpolnila vaša pričakovanja?

☒ DA ☐ NE ☐ delno

Dodatni komentarji – predlogi za izboljšanje :

VPRASHALNIK O ČEZMEJNIH OZ. MEOBČINSKIH SISTEMIH OSKRBE S PITNO VODO IN UPRAVLJANJU Z VODNIMI VIRI

Prenos vsebin projekta v prakso in trajni učinki projekta so pomembna vsebina projekta, ki postavlja okvir za izmenjavo informacij o pomenu čezmejne oskrbe s pitno vodo med različnimi deležniki.

Informacije, ki jih boste podali preko tega vprašalnika bodo osnova za nadaljnje delo in podoba pomembno vplivale na uspešno izvajanje projekta DRINKADRIA.

Ime:	IVAN
Priimek:	DOBNIK
Organizacija (vsebin ni potrebno izpolniti)	KOMUNALNO PODJETJE PTUJ

Glavno področje dela vase organizacije:

☒ Izvajalec javne službe oskrbe s pitno vodo ☐ Uprava: ☐ lokalna ☐ regionalna ☐ državna
☐ Raziskovalna organizacija ☐ Združenje ☐ Drugo (prosimo navedite):

Glavno področje dela:

☒ oskrba s pitno vodo ☒ varovanje voda ☐ izobraževanje/raziskave
☐ mednarodno sodelovanje ☐ finančni vidiki/pravo ☐ Drugo (prosimo navedite):

Kateri prostorski okvir najbolj opredeljuje vase dejavnosti in naloge?
(Prosimo uprabite odstotno oceno področja tako, da je vsota 100%)

Lokalno 20% regionalno 80% državno 0% mednarodno 0% drugo (navedite): _____, _____ %

Katere problem na področju oskrbe s pitno vodo trenutno prepoznavate kot najbolj pomembne?
(Prosimo razvrstite: 1 najbolj do, 5 najmanj pomembne, isti nivo je mogoče opredeliti največ dvema)

☒ 1 vodne izgube ☒ 2 vodne količine ☒ 1 kakovost vode ☒ 3 Cena vode
☒ 4 zakonski okvir in opredelitev prioritet ☒ 2 težave s financiranjem ☒ 3 Stanje infrastrukture
☒ 5 kapacitete: ☐ institucij ☐ tehnične kapacitete ☐ človeški viri
☒ 4 Klimatske spremembe ☒ 1 Slabo sodelovanje ☐ Drugo (opišite):

DRINKADRIA standardni vprašalnik za deležnike
WP3 kapitalizacija in trajnost

Prosimo opredelite prioritete glede prej navedenih problemskih sklopov:
(Prosimo razvrstite: od (1)- najbolj do (5) - najmanj pomembne, isti nivo je mogoče opredeliti največ dvema)

VODNE IZGUBE

- ☒ 3 nedovoljeni odvzemi ☒ 4 napake pri meritvah porabe vode ☒ 4 dejanske izgube na distribuciji
☒ 4 izgube na priključkih ☒ 5 izgube na objektih (npr. Prelivanje vodohramov)
☒ 2 druge (navedite): *IZGUBE PRI POŠKODBAH CEVODRUGOV*

VODNE KOLIČINE

- ☒ 3 povečanje rabe vode ☐ sezonska nihanja porabe ☒ 2 kapacitete za shranjevanje vode
☐ sprememba rabe zemljišč ☐ visoka poraba dejavnosti (kmetijstvo, industrija), etc)
☒ 4 Klimatske spremembe ☐ padec porabe
☐ drugo (prosimo navedite):

KAKOVOST VODE

- ☐ točkovni pritiski onesnaženja ☒ 4 netočkovni pritiski onesnaženja ☒ 3 režim varovanja vodnih virov
☐ spremembe v rabi zemljišč ☒ 2 sezonska nihanja ☒ 4 Klimatske spremembe
☐ nova in prioriteta onesnaževala ☐ drugo (prosimo navedite)

OMEJITVE VEZANE NA DISTRIBUCIJO VODE

- ☒ 2 neprimerno omrežje (zasnova) ☒ 4 kapacitete črpališč ☒ 3 neustreznost vodohranov
☒ 2 pomanjkljivo vzdrževanje vodovodnega Sistema ☒ 1 staranje
☐ drugo, prosimo navedite:

Katere so po vašem mnenju glavne omejitve glede oskrbe s pitno vodo v bližnji prihodnosti (čez 25 let)?
(Prosimo razvrstite: od (1)- najbolj do (5) - najmanj pomembne, isti nivo je mogoče opredeliti največ dvema)

- ☒ 4 vodne izgube ☒ 3 vodne količine ☒ 2 kakovost vode ☒ 4 Cena vode
☐ zakonski okvir in opredelitev prioritete ☒ 2 težave s financiranjem ☒ 2 Stanje infrastrukture
☐ kapacitete : ☐ institucij ☐ tehnične kapacitete ☐ človeški viri
☐ Klimatske spremembe ☐ Slabo sodelovanje ☐ Drugo (opišite):

Katere ukrepe oz. dejavnosti prepoznate kot najbolj pomembne za izboljšanje oskrbe s pitno vodo glede na predhodno opredeljene probleme in omejitve?

Znanijsko-izobrazilni izboljšanje vodnih virov

**DRINKADRIA standardni vprašalnik za deležnike
WP3 kapitalizacija in trajnost**

Ali menite da bi bilo mogoče navedene probleme in omejitve reševati z:

(Prosimo razvrstite: od (1)- najbolj do (5) - najmanj pomembne, isti nivo je mogoče opredeliti največ dvema)

- ☒ Povezanimi politikami in programi, ki bi naslovile večino področij,
- ☐ Ločenimi politikami in programi, ki bi naslovile večino področij,
- ☒ Boljšim sodelovanjem med različnimi sektorji,
- ☒ Boljšim sodelovanjem med lokalnim in državnim nivojem,
- ☒ Več finančnimi viri,
- ☒ Višjimi cenami vode,
- ☐ Drugo (navedite):

Prosimo navedite tri najpomembnejše deležnike, ki jih prepoznavate za izboljšanje oskrbe s pitno vodo in upravljanja z vodnimi viri in njihove naloge:

- 1) lokalna skupnost naloga: invest. vlaganja v infrastrukturo
 2) lokalna država naloga: varovanje vodnih virov
 3) državna država naloga: cena vode, priprave

Katere naloge/ukrepe bi lahko vaša organizacija izvedla, da bi izboljšala oskrbo s pitno vodo in upravljanje z vodami in prispevala k njihovi trajnostni uspešnosti in učinkovitosti?

invest. vzdrževanje (obnove avtoavt) pri zagotavljanju
financiranja

Ali menite, da le ukrepi na državnem nivoju prispevajo k izboljšanju oskrbe s pitno vodo in varovanju virov?

☐ DA ☒ NE

Če je odgovor ne, katere institucije po vašem mnenju še imajo pomembno vlogo?

občine

Do katere mere ste seznanjeni z delom in vlogo Dvostranskih meddržavnih komisij na področju čezmejne oskrbe s pitno vodo in upravljanja z vodami?

☐ Celovito seznanjen z delom ☐ Zmerno seznanjen ☒ Pomanjkljivo seznanjen

Do katere mere ste seznanjeni z delom in vlogo lokalnih skupnosti na področju čezmejne/medobčinske oskrbe s pitno vodo in upravljanja z vodami?

☐ Celovito seznanjen z delom ☒ Zmerno seznanjen ☐ Pomanjkljivo seznanjen

DRINKADRIA standardni vprašalnik za deležnike
WP3 kapitalizacija in trajnost

Ali ste seznanjeni s pravnim okvirom (pogodbe, dogovori, memorandum, protokoli...) na podlagi katerih se izvajajo čezmejna oz. medobčinska oskrba s pitno vodo in upravljanje z vodami v vaši državi (regiji)?

☒ DA ☐ NE

Če je odgovor DA prosimo, da kratko navedete katere poznate:

konc. pogodbe, medoba o oskrbi s PV, pravilnik o PV

Do katere mere ste seznanjeni vprašanji in omejitvami vezanimi na čezmejno oskrbo s pitno vodo in upravljanje z vodami?

☐ Celovito seznanjen ☐ Zmerno seznanjen ☒ Pomanjkljivo seznanjen
Prosimo za dodatne komentarje:

Izvajanje okvirne vodne direktive in priprava načrtov upravljanja z vodami v vaši državi je :

☐ Zaključeno ☒ V teku ☐ Se začneja ☐ Nisem seznanjen

Prosimo za dodatne komentarje:

Izvajanje okvirne vodne direktive in priprava načrtov upravljanja z vodami na čezmejnih vodnih telesih je :

☐ Zaključeno ☒ V teku ☐ Se začneja ☐ Nisem seznanjen

Prosimo za dodatne komentarje:

Katere so najbolj pomembne vsebine s katerimi bi želeli biti seznanjeni/se poglobiti glede čezmejne/regionalne oskrbe s pitno vodo in upravljanja z vodami.

Ali je uvodna delavnica projekta DRINKADRIA izpolnila vaša pričakovanja?

☒ DA ☐ NE ☐ delno

Dodatni komentarji – predlogi za izboljšanje :

VPRAŠALNIK O ČEZMEJNIH OZ. MEOBČINSKIH SISTEMIH OSKRBE S PITNO VODO IN UPRAVLJANJU Z VODNIMI VIRI

Prenos vsebin projekta v prakso in trajni učinki projekta so pomembna vsebina projekta, ki postavlja okvir za izmenjavo informacij o pomenu čezmejne oskrbe s pitno vodo med različnimi deležniki.

Informacije, ki jih boste podali preko tega vprašalnika bodo osnova za nadaljnje delo in podoba pomembno vplivale na uspešno izvajanje projekta DRINKADRIA.

Ime:	NATAŠA
Priimek:	JORDAN JUSTIN
Organizacija (vsebin ni potrebno izpolniti)	
Glavno področje dela vase organizacije:	
<input checked="" type="checkbox"/> Izvajalec javne službe oskrbe s pitno vodo <input type="checkbox"/> Uprava: <input type="checkbox"/> lokalna <input type="checkbox"/> regionalna <input type="checkbox"/> državna <input type="checkbox"/> Raziskovalna organizacija <input type="checkbox"/> Združenje <input type="checkbox"/> Drugo (prosimo navedite):	
Glavno področje dela:	
<input checked="" type="checkbox"/> oskrba s pitno vodo <input type="checkbox"/> varovanje voda <input type="checkbox"/> izobraževanje/raziskave <input type="checkbox"/> mednarodno sodelovanje <input type="checkbox"/> finančni vidiki/pravo <input type="checkbox"/> Drugo (prosimo navedite):	
Kateri prostorski okvir najbolj opredeljuje vase dejavnosti in naloge? (Prosimo uporabite odstotno oceno področja tako, da je vsota 100%)	
Lokalno ⁵⁰ % regionalno ⁵⁰ % državno % mednarodno % drugo (navedite): _____, %	
Katere problem na področju oskrbe s pitno vodo trenutno prepoznavate kot najbolj pomembne? (Prosimo razvrstite: 1 najbolj do, 5 najmanj pomembne, isti nivo je mogoče opredeliti največ dvema)	
1 <input checked="" type="checkbox"/> vodne izgube 4 <input checked="" type="checkbox"/> vodne količine 1 <input checked="" type="checkbox"/> kakovost vode 4 <input checked="" type="checkbox"/> Cena vode 3 <input type="checkbox"/> zakonski okvir in opredelitev prioritet 2 <input type="checkbox"/> težave s financiranjem 2 <input type="checkbox"/> Stanje infrastrukture 5 <input type="checkbox"/> kapacitete: <input type="checkbox"/> institucij <input type="checkbox"/> tehnične kapacitete <input type="checkbox"/> človeški viri 3 <input type="checkbox"/> Klimatske spremembe <input type="checkbox"/> Slabo sodelovanje <input type="checkbox"/> Drugo (opišite):	

DRINKADRIA standardni vprašalnik za deležnike
WP3 kapitalizacija in trajnost

Prosimo opredelite prioritete glede prej navedenih problemskih sklopov:
(Prosimo razvrstite: od (1)- najbolj do (5) - najmanj pomembne, isti nivo je mogoče opredeliti največ dvema)

VODNE IZGUBE

- 3 ☐ nedovoljeni odvzemi 2 ☐ napake pri meritvah porabe vode 1 ☐ dejanske izgube na distribuciji
2 ☐ izgube na priključkih 5 ☐ izgube na objektih (npr. Prelivanje vodohramov)
☐ druge (navedite):

VODNE KOLIČINE

- ☐ povečanje rabe vode ☐ sezonska nihanja porabe ☐ kapacitete za shranjevanje vode
☐ sprememba rabe zemljišč ☐ visoka poraba dejavnosti (kmetijstvo, industrija), etc)
☐ Klimatske spremembe 1 ☐ padec porabe
☐ drugo (prosimo navedite):

KAKOVOST VODE

- 5 ☐ točkovni pritiski onesnaženja 3 ☐ netočkovni pritiski onesnaženja 1 ☐ režim varovanja vodnih virov
5 ☐ spremembe v rabi zemljišč 3 ☐ sezonska nihanja 2 ☐ Klimatske spremembe
5 ☐ nova in prioriteta onesnaževala ☐ drugo (prosimo navedite)

OMEJITVE VEZANE NA DISTRIBUCIJO VODE

- 4 ☐ neprimerno omrežje (zasnova) 5 ☐ kapacitete črpališč 4 ☐ neustreznost vodohranov
2 ☐ pomanjkljivo vzdrževanje vodovodnega Sistema 1 ☐ staranje
☐ drugo, prosimo navedite:

Katere so po vašem mnenju glavne omejitve glede oskrbe s pitno vodo v bližnji prihodnosti (čez 25 let)?
(Prosimo razvrstite: od (1)- najbolj do (5) - najmanj pomembne, isti nivo je mogoče opredeliti največ dvema)

- 2 ☐ vodne izgube 2 ☐ vodne količine 1 ☐ kakovost vode 1 ☐ Cena vode
1 ☐ zakonski okvir in opredelitev prioritete 3 ☐ težave s financiranjem 1 ☐ Stanje infrastrukture
3 ☐ kapacitete : ☐ institucij ☐ tehnične kapacitete ☐ človeški viri
☐ Klimatske spremembe ☐ Slabo sodelovanje ☐ Drugo (opišite):

Katere ukrepe oz. dejavnosti prepoznavate kot najbolj pomembne za izboljšanje oskrbe s pitno vodo glede na predhodno opredeljene probleme in omejitve?

DRINKADRIA standardni vprašalnik za deležnike
WP3 kapitalizacija in trajnost

Ali menite da bi bilo mogoče navedene probleme in omejitve reševati z:

(Prosimo razvrstite: od (1)- najbolj do (5) - najmanj pomembne, isti nivo je mogoče opredeliti največ dvema)

- 3 ☐ Povezanimi politikami in programi, ki bi naslovile večino področij,
5 ☐ Ločenimi politikami in programi, ki bi naslovile večino področij,
1 ☐ Boljšim sodelovanjem med različnimi sektorji,
1 ☐ Boljšim sodelovanjem med lokalnim in državnim nivojem,
2 ☐ Več finančnimi viri,
4 ☐ Višjimi cenami vode,
☐ Drugo (navedite):

Prosimo navedite tri najpomembnejše deležnike, ki jih prepoznavate za izboljšanje oskrbe s pitno vodo in upravljanja z vodnimi viri in njihove naloge:

- 1) _____ naloga: _____
2) _____ naloga: _____
3) _____ naloga: _____

Katere naloge/ukrepe bi lahko vaša organizacija izvedla, da bi izboljšala oskrbo s pitno vodo in upravljanje z vodami in prispevala k njihovi trajnostni uspešnosti in učinkovitosti?

Ali menite, da le ukrepi na državnem nivoju prispevajo k izboljšanju oskrbe s pitno vodo in varovanju virov?

☐ DA ☒ NE

Če je odgovor ne, katere institucije po vašem mnenju še imajo pomembno vlogo?

lokalne, regionalne

Do katere mere ste seznanjeni z delom in vlogo Dvostranskih meddržavnih komisij na področju čezmejne oskrbe s pitno vodo in upravljanja z vodami?

☐ Celovito seznanjen z delom ☐ Zmerno seznanjen ☒ Pomanjkljivo seznanjen

Do katere mere ste seznanjeni z delom in vlogo lokalnih skupnosti na področju čezmejne/medobčinske oskrbe s pitno vodo in upravljanja z vodami?

☐ Celovito seznanjen z delom ☐ Zmerno seznanjen ☒ Pomanjkljivo seznanjen

DRINKADRIA standardni vprašalnik za deležnike
WP3 kapitalizacija in trajnost

Ali ste seznanjeni s pravnim okvirom (pogodbe, dogovori, memorandum, protokoli...) na podlagi katerih se izvajajo čezmejna oz. medobčinska oskrba s pitno vodo in upravljanje z vodami v vaši državi (regiji)?

☐ DA ☐ NE

Če je odgovor DA prosimo, da kratko navedete katere poznate:

Do katere mere ste seznanjeni vprašanji in omejitvami vezanimi na čezmejno oskrbo s pitno vodo in upravljanje z vodami?

☐ Celovito seznanjen ☐ Zmerno seznanjen ☐ Pomanjkljivo seznanjen

Prosimo za dodatne komentarje:

Izvajanje okvirne vodne direktive in priprava načrtov upravljanja z vodami v vaši državi je :

☐ Zaključeno ☐ V teku ☐ Se začinja ☐ Nisem seznanjen

Prosimo za dodatne komentarje:

Izvajanje okvirne vodne direktive in priprava načrtov upravljanja z vodami na čezmejnih vodnih telesih je :

☐ Zaključeno ☐ V teku ☐ Se začinja ☐ Nisem seznanjen

Prosimo za dodatne komentarje:

Katere so najbolj pomembne vsebine s katerimi bi želeli biti seznanjeni/se poglobiti glede čezmejne/regionalne oskrbe s pitno vodo in upravljanja z vodami.

Ali je uvodna delavnica projekta DRINKADRIA izpolnila vaša pričakovanja?

☐ DA ☐ NE ☐ delno

Dodatni komentarji – predlogi za izboljšanje :

VPRAŠALNIK O ČEZMEJNIH OZ. MEOBČINSKIH SISTEMIH OSKRBE S PITNO VODO IN UPRAVLJANJU Z VODNIMI VIRI

Prenos vsebin projekta v prakso in trajni učinki projekta so pomembna vsebina projekta, ki postavlja okvir za izmenjavo informacij o pomenu čezmejne oskrbe s pitno vodo med različnimi deležniki.

Informacije, ki jih boste podali preko tega vprašalnika bodo osnova za nadaljnje delo in podoba pomembno vplivale na uspešno izvajanje projekta DRINKADRIA.

Ime:	
Priimek:	
Organizacija (vsebin ni potrebno izpolniti)	

Glavno področje dela vase organizacije:

☐ Izvajalec javne službe oskrbe s pitno vodo
 ☐ Uprava: ☐ lokalna ☐ regionalna ☐ državna
☐ Raziskovalna organizacija ☐ Združenje ☐ Drugo (prosimo navedite):

Glavno področje dela:

☒ oskrba s pitno vodo
 ☐ varovanje voda ☐ izobraževanje/raziskave
☐ mednarodno sodelovanje ☐ finančni vidiki/pravo ☐ Drugo (prosimo navedite):

Kateri prostorski okvir najbolj opredeljuje vase dejavnosti in naloge?
(Prosimo uporabite odstotno oceno področja tako, da je vsota 100%)

Lokalno 50 % regionalno 50 % državno _ % mednarodno _ % drugo (navedite): ____, _ %

Kateri problem na področju oskrbe s pitno vodo trenutno prepoznavate kot najbolj pomembne?
(Prosimo razvrstite: 1 najbolj do, 5 najmanj pomembne, isti nivo je mogoče opredeliti največ dvema)

3 ☐ vodne izgube 5 ☐ vodne količine 1 ☐ kakovost vode 1 ☐ Cena vode
3 ☐ zakonski okvir in opredelitev prioritet 2 ☐ težave s financiranjem 2 ☐ Stanje infrastrukture
5 ☐ kapacitete : ☐ institucij ☐ tehnične kapacitete ☐ človeški viri
3 ☐ Klimatske spremembe ☐ Slabo sodelovanje ☐ Drugo (opišite):

DRINKADRIA standardni vprašalnik za deležnike
WP3 kapitalizacija in trajnost

Prosimo opredelite prioritete glede prej navedenih problemskih sklopov:
(Prosimo razvrstite: od (1)- najbolj do (5) - najmanj pomembne, isti nivo je mogoče opredeliti največ dvema)

VODNE IZGUBE

- 3 ☐ nedovoljeni odvzemi 2 ☐ napake pri meritvah porabe vode 1 ☐ dejanske izgube na distribuciji
2 ☐ izgube na priključkih 5 ☐ izgube na objektih (npr. Prelivanje vodohramov)
☐ druge (navedite):

VODNE KOLIČINE

- ☐ povečanje rabe vode ☐ sezonska nihanja porabe ☐ kapacitete za shranjevanje vode
☐ sprememba rabe zemljišč ☐ visoka poraba dejavnosti (kmetijstvo, industrija), etc)
☐ Klimatske spremembe 1 ☐ padec porabe
☐ drugo (prosimo navedite):

KAKOVOST VODE

- 4 ☐ točkovni pritiski onesnaženja 3 ☐ netočkovni pritiski onesnaženja 1 ☐ režim varovanja vodnih virov
5 ☐ spremembe v rabi zemljišč 3 ☐ sezonska nihanja 2 ☐ Klimatske spremembe
5 ☐ nova in prioriteta onesnaževala ☐ drugo (prosimo navedite)

OMEJITVE VEZANE NA DISTRIBUCIJO VODE

- 4 ☐ neprimerno omrežje (zasnova) 3 ☐ kapacitete črpališč 5 ☐ neustreznost vodohranov
2 ☐ pomanjkljivo vzdrževanje vodovodnega Sistema 1 ☐ staranje
☐ drugo, prosimo navedite:

Katere so po vašem mnenju glavne omejitve glede oskrbe s pitno vodo v bližnji prihodnosti (čez 25 let)?
(Prosimo razvrstite: od (1)- najbolj do (5) - najmanj pomembne, isti nivo je mogoče opredeliti največ dvema)

- 2 ☐ vodne izgube 2 ☐ vodne količine 1 ☐ kakovost vode 1 ☐ Cena vode
☐ zakonski okvir in opredelitev prioritete 3 ☐ težave s financiranjem 1 ☐ Stanje infrastrukture
5 ☐ kapacitete : ☐ institucij ☐ tehnične kapacitete ☐ človeški viri
3 ☐ Klimatske spremembe ☐ Slabo sodelovanje ☐ Drugo (opišite):

Katere ukrepe oz. dejavnosti prepoznavate kot najbolj pomembne za izboljšanje oskrbe s pitno vodo glede na predhodno opredeljene probleme in omejitve?

DRINKADRIA standardni vprašalnik za deležnike
WP3 kapitalizacija in trajnost

Ali menite da bi bilo mogoče navedene probleme in omejitve reševati z:

(Prosimo razvrstite: od (1)- najbolj do (5) - najmanj pomembne, isti nivo je mogoče opredeliti največ dvema)

- 2 ☐ Povezanimi politikami in programi, ki bi naslovile večino področij,
5 ☐ Ločenimi politikami in programi, ki bi naslovile večino področij,
3 ☐ Boljšim sodelovanjem med različnimi sektorji,
3 ☐ Boljšim sodelovanjem med lokalnim in državnim nivojem,
1 ☐ Več finančnimi viri,
3 ☐ Višjimi cenami vode,
☐ Drugo (navedite):

Prosimo navedite tri najpomembnejše deležnike, ki jih prepoznavate za izboljšanje oskrbe s pitno vodo in upravljanja z vodnimi viri in njihove naloge:

- 1) _____ naloga: _____
2) _____ naloga: _____
3) _____ naloga: _____

Katere naloge/ukrepe bi lahko vaša organizacija izvedla, da bi izboljšala oskrbo s pitno vodo in upravljanje z vodami in prispevala k njihovi trajnostni uspešnosti in učinkovitosti?

Ali menite, da le ukrepi na državnem nivoju prispevajo k izboljšanju oskrbe s pitno vodo in varovanju virov?

☐ DA ☒ NE

Če je odgovor ne, katere institucije po vašem mnenju še imajo pomembno vlogo?

Do katere mere ste seznanjeni z delom in vlogo Dvostranskih meddržavnih komisij na področju čezmejne oskrbe s pitno vodo in upravljanja z vodami?

☐ Celovito seznanjen z delom ☐ Zmerno seznanjen ☒ Pomanjkljivo seznanjen

Do katere mere ste seznanjeni z delom in vlogo lokalnih skupnosti na področju čezmejne/medobčinske oskrbe s pitno vodo in upravljanja z vodami?

☐ Celovito seznanjen z delom ☐ Zmerno seznanjen ☒ Pomanjkljivo seznanjen

DRINKADRIA standardni vprašalnik za deležnike
WP3 kapitalizacija in trajnost

Ali ste seznanjeni s pravnim okvirom (pogodbe, dogovori, memorandum, protokoli...) na podlagi katerih se izvajajo čezmejna oz. medobčinska oskrba s pitno vodo in upravljanje z vodami v vaši državi (regiji)?

☐ DA ☒ NE

Če je odgovor DA prosimo, da kratko navedete katere poznate:

Do katere mere ste seznanjeni vprašanji in omejitvami vezanimi na čezmejno oskrbo s pitno vodo in upravljanje z vodami?

☐ Celovito seznanjen ☐ Zmerno seznanjen ☒ Pomanjkljivo seznanjen
Prosimo za dodatne komentarje:

Izvajanje okvirne vodne direktive in priprava načrtov upravljanja z vodami v vaši državi je :

☐ Zaključeno ☒ V teku ☐ Se začneja ☐ Nisem seznanjen

Prosimo za dodatne komentarje:

Izvajanje okvirne vodne direktive in priprava načrtov upravljanja z vodami na čezmejnih vodnih telesih je :

☐ Zaključeno ☒ V teku ☐ Se začneja ☐ Nisem seznanjen

Prosimo za dodatne komentarje:

Katere so najbolj pomembne vsebine s katerimi bi želeli biti seznanjeni/se poglobiti glede čezmejne/regionalne oskrbe s pitno vodo in upravljanja z vodami.

Ali je uvodna delavnica projekta DRINKADRIA izpolnila vaša pričakovanja?

☐ DA ☐ NE ☐ delno

Dodatni komentarji – predlogi za izboljšanje :

Networking for Drinking Water Supply in Adriatic Region

VPRAŠALNIK O ČEZMEJNIH OZ. MEOBČINSKIH SISTEMIH OSKRBE S PITNO VODO IN UPRAVLJANJU Z VODNIMI VIRI

Prenos vsebin projekta v prakso in trajni učinki projekta so pomembna vsebina projekta, ki postavlja okvir za izmenjavo informacij o pomenu čezmejne oskrbe s pitno vodo med različnimi deležniki.

Informacije, ki jih boste podali preko tega vprašalnika bodo osnova za nadaljnje delo in podoba pomembno vplivale na uspešno izvajanje projekta DRINKADRIA.

Ime:	<i>Matjaž Hvalič</i>
Priimek:	
Organizacija (vsebin ni potrebno izpolniti)	<i>Vodovod in Konektivnost N.G. d.o.o.</i>
Glavno področje dela vase organizacije:	
<input checked="" type="checkbox"/> Izvajalec javne službe oskrbe s pitno vodo <input type="checkbox"/> Uprava: <input type="checkbox"/> lokalna <input type="checkbox"/> regionalna <input type="checkbox"/> državna <input type="checkbox"/> Raziskovalna organizacija <input type="checkbox"/> Združenje <input type="checkbox"/> Drugo (prosimo navedite):	
Glavno področje dela:	
<input checked="" type="checkbox"/> oskrba s pitno vodo <input type="checkbox"/> varovanje voda <input type="checkbox"/> izobraževanje/raziskave <input type="checkbox"/> mednarodno sodelovanje <input type="checkbox"/> finančni vidiki/pravo <input type="checkbox"/> Drugo (prosimo navedite):	
Kateri prostorski okvir najbolj opredeljuje vase dejavnosti in naloge? (Prosimo uporabite odstotno oceno področja tako, da je vsota 100%)	
<i>1</i> Lokalno <i>10</i> % <i>60</i> regionalno % državno % <i>30</i> mednarodno % drugo (navedite): _____ %	
Katere problem na področju oskrbe s pitno vodo trenutno prepoznavate kot najbolj pomembne? (Prosimo razvrstite: 1 najbolj do, 5 najmanj pomembne, isti nivo je mogoče opredeliti največ dvema)	
<input checked="" type="checkbox"/> vodne izgube <input checked="" type="checkbox"/> vodne količine <input checked="" type="checkbox"/> kakovost vode <input checked="" type="checkbox"/> Cena vode <input type="checkbox"/> zakonski okvir in opredelitev prioritet <input type="checkbox"/> težave s financiranjem <input checked="" type="checkbox"/> Stanje infrastrukture <input type="checkbox"/> kapacitete : <input type="checkbox"/> institucij <input type="checkbox"/> tehnične kapacitete <input type="checkbox"/> človeški viri <input type="checkbox"/> Klimatske spremembe <input type="checkbox"/> Slabo sodelovanje <input type="checkbox"/> Drugo (opišite):	

DRINKADRIA standardni vprašalnik za deležnike
WP3 kapitalizacija in trajnost

Prosimo opredelite prioritete glede prej navedenih problemskih sklopov:
(Prosimo razvrstite: od (1)- najbolj do (5) - najmanj pomembne, isti nivo je mogoče opredeliti največ dvema)

VODNE IZGUBE

- ☒ 1 nedovoljeni odvzemi ☒ 2 napake pri meritvah porabe vode ☒ 3 dejanske izgube na distribuciji
☒ 4 izgube na priključkih ☒ 5 izgube na objektih (npr. Prelivanje vodohramov)
☐ druge (navedite):

VODNE KOLIČINE

- ☒ 1 povečanje rabe vode ☒ 2 sezonska nihanja porabe ☐ kapacitete za shranjevanje vode
☐ sprememba rabe zemljišč ☐ visoka poraba dejavnosti (kmetijstvo, industrija), etc)
☐ Klimatske spremembe ☒ 3 padec porabe
☒ 4 drugo (prosimo navedite):
rečanje sistema

KAKOVOST VODE

- ☒ 1 točkovni pritiski onesnaženja ☒ 2 netočkovni pritiski onesnaženja ☒ 3 režim varovanja vodnih virov
☐ spremembe v rabi zemljišč ☒ 4 sezonska nihanja ☒ 5 Klimatske spremembe
☐ nova in prioriteta onesnaževala ☐ drugo (prosimo navedite)

OMEJITVE VEZANE NA DISTRIBUCIJO VODE

- ☒ 2 neprimerno omrežje (zasnova) ☒ 4 kapacitete črpališč ☒ 4 neustreznost vodohranov
☒ 4 pomanjkljivo vzdrževanje vodovodnega Sistema ☒ 3 staranje
☐ drugo, prosimo navedite:

Katere so po vašem mnenju glavne omejitve glede oskrbe s pitno vodo v bližnji prihodnosti (čez 25 let)?
(Prosimo razvrstite: od (1)- najbolj do (5) - najmanj pomembne, isti nivo je mogoče opredeliti največ dvema)

- ☒ 1 vodne izgube ☒ 2 vodne količine ☒ 2 kakovost vode ☐ Cena vode
☐ zakonski okvir in opredelitev prioritete ☒ 2 težave s financiranjem ☒ 2 Stanje infrastrukture
☐ kapacitete : ☐ institucij ☐ tehnične kapacitete ☐ človeški viri
☐ Klimatske spremembe ☒ 2 Slabo sodelovanje ☐ Drugo (opišite):

Katere ukrepe oz. dejavnosti prepoznate kot najbolj pomembne za izboljšanje oskrbe s pitno vodo glede na predhodno opredeljene probleme in omejitve?

Delo na zmanjševanju vodnih izgub.

DRINKADRIA standardni vprašalnik za deležnike
WP3 kapitalizacija in trajnost

Ali menite da bi bilo mogoče navedene probleme in omejitve reševati z:

(Prosimo razvrstite: od (1)- najbolj do (5) - najmanj pomembne, isti nivo je mogoče opredeliti največ dvema)

- ☐ Povezanimi politikami in programi, ki bi naslovile večino področij,
- ☐ Ločenimi politikami in programi, ki bi naslovile večino področij,
- ☐ Boljšim sodelovanjem med različnimi sektorji,
- ☐ Boljšim sodelovanjem med lokalnim in državnim nivojem,
- ☐ Več finančnimi viri,
- ☐ Višjimi cenami vode,
- ☐ Drugo (navedite):

Prosimo navedite tri najpomembnejše deležnike, ki jih prepoznate za izboljšanje oskrbe s pitno vodo in upravljanja z vodnimi viri in njihove naloge:

- 1) _____ naloga: _____
- 2) _____ naloga: _____
- 3) _____ naloga: _____

Katere naloge/ukrepe bi lahko vaša organizacija izvedla, da bi izboljšala oskrbo s pitno vodo in upravljanje z vodami in prispevala k njihovi trajnostni uspešnosti in učinkovitosti?

Ali menite, da le ukrepi na državnem nivoju prispevajo k izboljšanju oskrbe s pitno vodo in varovanju virov?

☐ DA ☐ NE

Če je odgovor ne, katere institucije po vašem mnenju še imajo pomembno vlogo?

Do katere mere ste seznanjeni z delom in vlogo Dvostranskih meddržavnih komisij na področju čezmejne oskrbe s pitno vodo in upravljanja z vodami?

☐ Celovito seznanjen z delom ☐ Zmerno seznanjen ☐ Pomanjkljivo seznanjen

Do katere mere ste seznanjeni z delom in vlogo lokalnih skupnosti na področju čezmejne/medobčinske oskrbe s pitno vodo in upravljanja z vodami?

☐ Celovito seznanjen z delom ☐ Zmerno seznanjen ☐ Pomanjkljivo seznanjen

DRINKADRIA standardni vprašalnik za deležnike
WP3 kapitalizacija in trajnost

Ali ste seznanjeni s pravnim okvirom (pogodbe, dogovori, memorandum, protokoli...) na podlagi katerih se izvajajo čezmejna oz. medobčinska oskrba s pitno vodo in upravljanje z vodami v vaši državi (regiji)?

☒ DA ☐ NE

Če je odgovor DA prosimo, da kratko navedete katere poznate:

N. GORICA - ITALIJA

Do katere mere ste seznanjeni vprašanji in omejitvami vezanimi na čezmejno oskrbo s pitno vodo in upravljanje z vodami?

☐ Celovito seznanjen ☒ Zmerno seznanjen ☐ Pomanjkljivo seznanjen

Prosimo za dodatne komentarje:

Izvajanje okvirne vodne direktive in priprava načrtov upravljanja z vodami v vaši državi je :

☐ Zaključeno ☒ V teku ☐ Se začneja ☐ Nisem seznanjen

Prosimo za dodatne komentarje:

Izvajanje okvirne vodne direktive in priprava načrtov upravljanja z vodami na čezmejnih vodnih telesih je :

☐ Zaključeno ☒ V teku ☐ Se začneja ☐ Nisem seznanjen

Prosimo za dodatne komentarje:

Katere so najbolj pomembne vsebine s katerimi bi želeli biti seznanjeni/se poglobiti glede čezmejne/regionalne oskrbe s pitno vodo in upravljanja z vodami.

Ali je uvodna delavnica projekta DRINKADRIA izpolnila vaša pričakovanja?

☒ DA ☐ NE ☐ delno

Dodatni komentarji – predlogi za izboljšanje :

Networking for Drinking Water Supply in Adriatic Region

VPRASALNIK O ČEZMEJNIH OZ. MEOBČINSKIH SISTEMIH OSKRBE S PITNO VODO IN UPRAVLJANJU Z VODNIMI VIRI

Prenos vsebin projekta v prakso in trajni učinki projekta so pomembna vsebina projekta, ki postavlja okvir za izmenjavo informacij o pomenu čezmejne oskrbe s pitno vodo med različnimi deležniki.

Informacije, ki jih boste podali preko tega vprašalnika bodo osnova za nadaljnje delo in podoba pomembno vplivale na uspešno izvajanje projekta DRINKADRIA.

Ime:	JAKA KRANJC
Priimek:	
Organizacija (vsebin ni potrebno izpolniti)	EBM

Glavno področje dela vase organizacije:

☐ Izvajalec javne službe oskrbe s pitno vodo
 ☐ Uprava: ☐ lokalna ☐ regionalna ☐ državna
☐ Raziskovalna organizacija ☐ Združenje ☒ Drugo (prosimo navedite): NGo

Glavno področje dela:

☐ oskrba s pitno vodo ☐ varovanje voda ☐ izobraževanje/raziskave
☐ mednarodno sodelovanje ☐ finančni vidiki/pravo ☒ Drugo (prosimo navedite): UČINKOVITA RABA VIROV NA SPLOŠNO

Kateri prostorski okvir najbolj opredeljuje vase dejavnosti in naloge?
(Prosimo uporabite odstotno oceno področja tako, da je vsota 100%)

Lokalno 5% regionalno 5% državno 70% mednarodno 10% drugo (navedite): _____, _%

Kateri problem na področju oskrbe s pitno vodo trenutno prepoznavate kot najbolj pomembne?
(Prosimo razvrstite: 1 najbolj do, 5 najmanj pomembne, isti nivo je mogoče opredeliti največ dvema)

☐ vodne izgube ☐ vodne količine ☒ kakovost vode ☐ Cena vode
☐ zakonski okvir in opredelitev prioritet ☐ težave s financiranjem ☒ Stanje infrastrukture 1
☐ kapacitete: ☒ institucij ☐ tehnične kapacitete ☐ človeški viri
☐ Klimatske spremembe ☒ Slabo sodelovanje 5 ☐ Drugo (opišite): RANLIVOST ZA ONESNAŽENJE 3

DRINKADRIA standardni vprašalnik za deležnike
WP3 kapitalizacija in trajnost

Prosimo opredelite prioritete glede prej navedenih problemskih sklopov:
(Prosimo razvrstite: od (1)- najbolj do (5) - najmanj pomembne, isti nivo je mogoče opredeliti največ dvema)

VODNE IZGUBE

- ☐ nedovoljeni odvzemi ☐ napake pri meritvah porabe vode ☐ dejanske izgube na distribuciji
☐ izgube na priključkih ☐ izgube na objektih (npr. Prelivanje vodohramov)
☐ druge (navedite):

VODNE KOLIČINE

- 3 ☐ povečanje rabe vode 4 ☐ sezonska nihanja porabe 5 ☐ kapacitete za shranjevanje vode
1 ☐ sprememba rabe zemljišč 2 ☐ visoka poraba dejavnosti (kmetijstvo, industrija), etc)
4 ☐ Klimatske spremembe 5 ☐ padec porabe
☐ drugo (prosimo navedite):

KAKOVOST VODE

- 2 ☐ točkovni pritiski onesnaženja 3 ☐ netočkovni pritiski onesnaženja 1 ☐ režim varovanja vodnih virov
2 ☐ spremembe v rabi zemljišč 4 ☐ sezonska nihanja 5 ☐ Klimatske spremembe
3 ☐ nova in prioriteta onesnaževala ☐ drugo (prosimo navedite)

OMEJITVE VEZANE NA DISTRIBUCIJO VODE

- ☐ neprimerno omrežje (zasnova) ☐ kapacitete črpališč ☐ neustreznost vodohranov
☐ pomanjkljivo vzdrževanje vodovodnega Sistema ☐ staranje
☐ drugo, prosimo navedite:

Katere so po vašem mnenju glavne omejitve glede oskrbe s pitno vodo v bližnji prihodnosti (čez 25 let)?
(Prosimo razvrstite: od (1)- najbolj do (5) - najmanj pomembne, isti nivo je mogoče opredeliti največ dvema)

- 4 ☐ vodne izgube 1 ☐ vodne količine 1 ☐ kakovost vode 5 ☐ Cena vode
2 ☐ zakonski okvir in opredelitev prioritete 3 ☐ težave s financiranjem 2 ☐ Stanje infrastrukture
3 ☐ kapacitete : ☐ institucij ☐ tehnične kapacitete ☐ človeški viri
5 ☐ Klimatske spremembe 4 ☐ Slabo sodelovanje ☐ Drugo (opišite):

Katere ukrepe oz. dejavnosti prepoznate kot najbolj pomembne za izboljšanje oskrbe s pitno vodo glede na predhodno opredeljene probleme in omejitve?

PREPOZNAVANJE STRATEŠKEGA POMENA TUDI NA EFEMERALNI
ADMINISTRATIVNI RAUNI IN TO V KONKRETNEM SMISLU:
KREPIV KAPACITET, FINANCIRANJA, USTREZNE INFRASTRUKTURE...
DOLGOROČNO NAERTOVANJE.

DRINKADRIA standardni vprašalnik za deležnike
WP3 kapitalizacija in trajnost

Ali menite da bi bilo mogoče navedene probleme in omejitve reševati z:

(Prosimo razvrstite: od (1)- najbolj do (5) - najmanj pomembne, isti nivo je mogoče opredeliti največ dvema)

- ☐ Povezanimi politikami in programi, ki bi naslovile večino področij,
☒ Ločenimi politikami in programi, ki bi naslovile večino področij,
☒ Boljšim sodelovanjem med različnimi sektorji,
☒ Boljšim sodelovanjem med lokalnim in državnim nivojem,
☒ Več finančnimi viri,
☒ Višjimi cenami vode,
☐ Drugo (navedite):

Prosimo navedite tri najpomembnejše deležnike, ki jih prepoznate za izboljšanje oskrbe s pitno vodo in upravljanja z vodnimi viri in njihove naloge:

- 1) DRŽAVNA UPRAVA naloga: STRATEŠKI NIVO, KARDINALNA
2) STROKA, IZVAJALCI naloga: ZAGOTAVLJANJE PRIMERNOSTI IN IZVEDBA
3) LOKALNA UPRAVA naloga: INTEGRACIJA V OPN IPD

Katere naloge/ukrepe bi lahko vaša organizacija izvedla, da bi izboljšala oskrbo s pitno vodo in upravljanje z vodami in prispevala k njihovi trajnostni uspešnosti in učinkovitosti?

DISEMINACIJA REZULTATOV, OZAVEŠČANJE O POMENU TRAJNOSTNE
OSKRBE S PITNO VODO

Ali menite, da le ukrepi na državnem nivoju prispevajo k izboljšanju oskrbe s pitno vodo in varovanju virov?

☐ DA ☒ NE

Če je odgovor ne, katere institucije po vašem mnenju še imajo pomembno vlogo?

Do katere mere ste seznanjeni z delom in vlogo Dvostranskih meddržavnih komisij na področju čezmejne oskrbe s pitno vodo in upravljanja z vodami?

☐ Celovito seznanjen z delom ☐ Zmerno seznanjen ☒ Pomanjkljivo seznanjen

Do katere mere ste seznanjeni z delom in vlogo lokalnih skupnosti na področju čezmejne/medobčinske oskrbe s pitno vodo in upravljanja z vodami?

☐ Celovito seznanjen z delom ☐ Zmerno seznanjen ☒ Pomanjkljivo seznanjen

DRINKADRIA standardni vprašalnik za deležnike
WP3 kapitalizacija in trajnost

Ali ste seznanjeni s pravnim okvirom (pogodbe, dogovori, memorandum, protokoli...) na podlagi katerih se izvajajo čezmejna oz. medobčinska oskrba s pitno vodo in upravljanje z vodami v vaši državi (regiji)?

☐ DA ☒ NE

Če je odgovor DA prosimo, da kratko navedete katere poznate:

Do katere mere ste seznanjeni vprašanji in omejitvami vezanimi na čezmejno oskrbo s pitno vodo in upravljanje z vodami?

☐ Celovito seznanjen ☐ Zmerno seznanjen ☒ Pomanjkljivo seznanjen
Prosimo za dodatne komentarje:

KOT LAIK POZNAM SAMO NEKAJ KONKRETNIH PRIMEROV

Izvajanje okvirne vodne direktive in priprava načrtov upravljanja z vodami v vaši državi je :

☐ Zaključeno ☐ V teku ☐ Se začneja ☒ Nisem seznanjen

Prosimo za dodatne komentarje:

WFD JE PRENEŠENA, OPERATIVNO STANJE MI PA NI ZNANO

Izvajanje okvirne vodne direktive in priprava načrtov upravljanja z vodami na čezmejnih vodnih telesih je :

☐ Zaključeno ☐ V teku ☒ Se začneja ☐ Nisem seznanjen

Prosimo za dodatne komentarje:

Katere so najbolj pomembne vsebine s katerimi bi želeli biti seznanjeni/se poglobiti glede čezmejne/regionalne oskrbe s pitno vodo in upravljanja z vodami.

Ali je uvodna delavnica projekta DRINKADRIA izpolnila vaša pričakovanja?

☒ DA ☐ NE ☐ delno

Dodatni komentarji – predlogi za izboljšanje :

KVADRATKI VS RANGIRANJE PRI NEKATERIH VPRAŠANJIH USTVARJA
METODOLOŠKO ZMEDE

Networking for Drinking Water Supply in Adriatic Region

VPRAŠALNIK O ČEZMEJNIH OZ. MEOBČINSKIH SISTEMIH OSKRBE S PITNO VODO IN UPRAVLJANJU Z VODNIMI VIRI

Prenos vsebin projekta v prakso in trajni učinki projekta so pomembna vsebina projekta, ki postavlja okvir za izmenjavo informacij o pomenu čezmejne oskrbe s pitno vodo med različnimi deležniki.

Informacije, ki jih boste podali preko tega vprašalnika bodo osnova za nadaljnje delo in podoba pomembno vplivale na uspešno izvajanje projekta DRINKADRIA.

Ime:	TWA
Priimek:	KIRN
Organizacija (vsebin ni potrebno izpolniti)	IZURS

Glavno področje dela vase organizacije:

☐ Izvajalec javne službe oskrbe s pitno vodo
 ☒ Uprava:
 ☐ lokalna
 ☐ regionalna
 ☒ državna
☐ Raziskovalna organizacija
 ☐ Združenje
 ☐ Drugo (prosimo navedite):

Glavno področje dela:

☐ oskrba s pitno vodo
 ☒ varovanje voda
 ☐ izobraževanje/raziskave
☐ mednarodno sodelovanje
 ☐ finančni vidiki/pravo
 ☐ Drugo (prosimo navedite):

Kateri prostorski okvir najbolj opredeljuje vase dejavnosti in naloge?
(Prosimo uporabite odstotno oceno področja tako, da je vsota 100%)

Lokalno _ % regionalno _ % 90 državno % 10 mednarodno % drugo (navedite): _____, _ %

Katere problem na področju oskrbe s pitno vodo trenutno prepoznavate kot najbolj pomembne?
(Prosimo razvrstite: 1 najbolj do, 5 najmanj pomembne, isti nivo je mogoče opredeliti največ dvema)

☒ vodne izgube ☐ vodne količine ☒ kakovost vode ☐ Cena vode
☐ zakonski okvir in opredelitev prioritet ☒ težave s financiranjem ☐ Stanje infrastrukture
☒ kapacitete : ☐ institucij ☐ tehnične kapacitete ☒ človeški viri
☒ Klimatske spremembe ☒ Slabo sodelovanje ☐ Drugo (opišite):

DRINKADRIA standardni vprašalnik za deležnike
WP3 kapitalizacija in trajnost

Prosimo opredelite prioritete glede prej navedenih problemskih sklopov:
(Prosimo razvrstite: od (1)- najbolj do (5) - najmanj pomembne, isti nivo je mogoče opredeliti največ dvema)

VODNE IZGUBE

- ☒ nedovoljeni odvzemi ☒ napake pri meritvah porabe vode ☒ dejanske izgube na distribuciji
☒ izgube na priključkih ☒ izgube na objektih (npr. Prelivanje vodohramov)
☐ druge (navedite):

VODNE KOLIČINE

- ☒ povečanje rabe vode ☒ sezonska nihanja porabe ☒ kapacitete za shranjevanje vode
☒ sprememba rabe zemljišč ☐ visoka poraba dejavnosti (kmetijstvo, industrija), etc)
☒ Klimatske spremembe ☐ padec porabe
☐ drugo (prosimo navedite):

KAKOVOST VODE

- ☒ točkovni pritiski onesnaženja ☒ netočkovni pritiski onesnaženja ☒ režim varovanja vodnih virov
☐ spremembe v rabi zemljišč ☒ sezonska nihanja ☐ Klimatske spremembe
☒ nova in prioriteta onesnaževala ☐ drugo (prosimo navedite)

OMEJITVE VEZANE NA DISTRIBUCIJO VODE

- ☒ neprimerno omrežje (zasnova) ☒ kapacitete črpališč ☒ neustreznost vodohranov
☒ pomanjkljivo vzdrževanje vodovodnega Sistema ☒ staranje
☐ drugo, prosimo navedite:

Katere so po vašem mnenju glavne omejitve glede oskrbe s pitno vodo v bližnji prihodnosti (čez 25 let)?
(Prosimo razvrstite: od (1)- najbolj do (5) - najmanj pomembne, isti nivo je mogoče opredeliti največ dvema)

- ☒ vodne izgube ☐ vodne količine ☒ kakovost vode ☒ Cena vode
☐ zakonski okvir in opredelitev prioritete ☐ težave s financiranjem ☐ Stanje infrastrukture
☐ kapacitete : ☐ institucij ☐ tehnične kapacitete ☐ človeški viri
☒ Klimatske spremembe ☒ Slabo sodelovanje ☐ Drugo (opišite):

Katere ukrepe oz. dejavnosti prepoznavate kot najbolj pomembne za izboljšanje oskrbe s pitno vodo glede na predhodno opredeljene probleme in omejitve?

- Zagotavljanje čiste pitne vode
- prilagoditev in izboljšanje opremljenosti
- Boljše sodelovanje

DRINKADRIA standardni vprašalnik za deležnike
WP3 kapitalizacija in trajnost

Ali menite da bi bilo mogoče navedene probleme in omejitve reševati z:

(Prosimo razvrstite: od (1)- najbolj do (5) - najmanj pomembne, isti nivo je mogoče opredeliti največ dvema)

- ☒ 4 Povezanimi politikami in programi, ki bi naslovile večino področij,
☐ Ločenimi politikami in programi, ki bi naslovile večino področij,
☒ 3 Boljšim sodelovanjem med različnimi sektorji,
☒ Boljšim sodelovanjem med lokalnim in državnim nivojem,
☒ Več finančnimi viri,
☒ Višjimi cenami vode,
☐ Drugo (navedite):

Prosimo navedite tri najpomembnejše deležnike, ki jih prepoznavate za izboljšanje oskrbe s pitno vodo in upravljanja z vodnimi viri in njihove naloge:

- 1) DRŽAVA naloga: zakonodajni okvir, upravljanje
 2) OBČINE naloga: napoved...
 3) UPRAVLJALCI naloga: izvajanje

Katere naloge/ukrepe bi lahko vaša organizacija izvedla, da bi izboljšala oskrbo s pitno vodo in upravljanje z vodami in prispevala k njihovi trajnostni uspešnosti in učinkovitosti?

NAČRT UPRAVLJANJA Z VODAMI (NUV II)

Ali menite, da le ukrepi na državnem nivoju prispevajo k izboljšanju oskrbe s pitno vodo in varovanju virov?

☐ DA ☒ NE

Če je odgovor ne, katere institucije po vašem mnenju še imajo pomembno vlogo?

- celotno sodelovanje v primeru celotnih vlogovnikov.
- občine

Do katere mere ste seznanjeni z delom in vlogo Dvostranskih meddržavnih komisij na področju čezmejne oskrbe s pitno vodo in upravljanja z vodami?

☐ Celovito seznanjen z delom ☐ Zmerno seznanjen ☒ Pomanjkljivo seznanjen

Do katere mere ste seznanjeni z delom in vlogo lokalnih skupnosti na področju čezmejne/medobčinske oskrbe s pitno vodo in upravljanja z vodami?

☐ Celovito seznanjen z delom ☐ Zmerno seznanjen ☒ Pomanjkljivo seznanjen

DRINKADRIA standardni vprašalnik za deležnike
WP3 kapitalizacija in trajnost

Ali ste seznanjeni s pravnim okvirom (pogodbe, dogovori, memorandum, protokoli...) na podlagi katerih se izvajajo čezmejna oz. medobčinska oskrba s pitno vodo in upravljanje z vodami v vaši državi (regiji)?

☐ DA ☒ NE

Če je odgovor DA prosimo, da kratko navedete katere poznate:

Do katere mere ste seznanjeni vprašnji in omejitvami vezanimi na čezmejno oskrbo s pitno vodo in upravljanje z vodami?

☐ Celovito seznanjen ☐ Zmerno seznanjen ☒ Pomanjkljivo seznanjen

Prosimo za dodatne komentarje:

Izvajanje okvirne vodne direktive in priprava načrtov upravljanja z vodami v vaši državi je :

☐ Zaključeno ☒ V teku ☐ Se začinja ☐ Nisem seznanjen

Prosimo za dodatne komentarje:

NUV II

Izvajanje okvirne vodne direktive in priprava načrtov upravljanja z vodami na čezmejnih vodnih telesih je :

☐ Zaključeno ☒ V teku ☐ Se začinja ☐ Nisem seznanjen

Prosimo za dodatne komentarje:

Katere so najbolj pomembne vsebine s katerimi bi želeli biti seznanjeni/se poglobiti glede čezmejne/regionalne oskrbe s pitno vodo in upravljanja z vodami.

Ali je uvodna delavnica projekta DRINKADRIA izpolnila vaša pričakovanja?

☒ DA ☐ NE ☐ delno

Dodatni komentarji – predlogi za izboljšanje :



Trdnjava v Ljubljani



REPUBLIKA SLOVENIJA
SLUŽBA VLADE REPUBLIKE SLOVENIJE ZA RAZVOJ
IN EVROPSKO KOHEZIJSKO POLITIKO



Projekt delno financira Evropska unija
Instrument za predpristopno pomoč

Networking for Drinking Water Supply in Adriatic Region

VPRAŠALNIK O ČEZMEJNIH OZ. MEOBČINSKIH SISTEMIH OSKRBE S PITNO VODO IN UPRAVLJANJU Z VODNIMI VIRI

Prenos vsebin projekta v prakso in trajni učinki projekta so pomembna vsebina projekta, ki postavlja okvir za izmenjavo informacij o pomenu čezmejne oskrbe s pitno vodo med različnimi deležniki.

Informacije, ki jih boste podali preko tega vprašalnika bodo osnova za nadaljnje delo in podoba pomembno vplivale na uspešno izvajanje projekta DRINKADRIA.

Ime: Priimek: Organizacija (vsebin ni potrebno izpolniti)	GREGOR KOLMAN IZURS
Glavno področje dela vase organizacije:	
<input type="checkbox"/> Izvajalec javne službe oskrbe s pitno vodo <input checked="" type="checkbox"/> Uprava: <input type="checkbox"/> lokalna <input type="checkbox"/> regionalna <input checked="" type="checkbox"/> državna <input type="checkbox"/> Raziskovalna organizacija <input type="checkbox"/> Združenje <input type="checkbox"/> Drugo (prosimo navedite):	
Glavno področje dela:	
<input type="checkbox"/> oskrba s pitno vodo <input checked="" type="checkbox"/> varovanje voda <input type="checkbox"/> izobraževanje/raziskave <input type="checkbox"/> mednarodno sodelovanje <input type="checkbox"/> finančni vidiki/pravo <input type="checkbox"/> Drugo (prosimo navedite):	
Kateri prostorski okvir <u>najbolje</u> opredeljuje vase dejavnosti in naloge? (Prosimo uporabite odstotno oceno področja tako, da je vsota 100%)	
Lokalno __ % regionalno __ % <u>državno</u> __ % mednarodno __ % drugo (navedite): ____, __ % <div style="margin-left: 200px;">100%</div>	
Katere problem na področju oskrbe s pitno vodo trenutno prepoznavate kot najbolj pomembne? (Prosimo razvrstite: 1 najbolj do, 5 najmanj pomembne, isti nivo je mogoče opredeliti največ dvema)	
<div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input checked="" type="checkbox"/> 1 vodne izgube </div> <div style="width: 50%;"> <input checked="" type="checkbox"/> 5 vodne količine </div> <div style="width: 50%;"> <input checked="" type="checkbox"/> 3 kakovost vode </div> <div style="width: 50%;"> <input type="checkbox"/> Cena vode </div> <div style="width: 50%;"> <input type="checkbox"/> zakonski okvir in opredelitev prioritete </div> <div style="width: 50%;"> <input type="checkbox"/> težave s financiranjem </div> <div style="width: 50%;"> <input checked="" type="checkbox"/> 2 Stanje infrastrukture </div> <div style="width: 50%;"> <input type="checkbox"/> kapacitete : <input type="checkbox"/> institucij <input type="checkbox"/> tehnične kapacitete <input type="checkbox"/> človeški viri </div> <div style="width: 50%;"> <input type="checkbox"/> Klimatske spremembe </div> <div style="width: 50%;"> <input checked="" type="checkbox"/> 4 Slabo sodelovanje </div> <div style="width: 50%;"> <input type="checkbox"/> Drugo (opišite): </div> </div>	

DRINKADRIA standardni vprašalnik za deležnike
WP3 kapitalizacija in trajnost

Prosimo opredelite prioritete glede prej navedenih problemskih sklopov:
(Prosimo razvrstite: od (1)- najbolj do (5) - najmanj pomembne, isti nivo je mogoče opredeliti največ dvema)

VODNE IZGUBE

- | | | |
|---|---|---|
| <input checked="" type="checkbox"/> nedovoljeni odvzemi | <input checked="" type="checkbox"/> napake pri meritvah porabe vode | <input checked="" type="checkbox"/> dejanske izgube na distribuciji |
| <input checked="" type="checkbox"/> izgube na priključkih | <input checked="" type="checkbox"/> izgube na objektih (npr. Prelivanje vodohramov) | |
| <input type="checkbox"/> druge (navedite): | | |

VODNE KOLIČINE

- | | | |
|---|---|---|
| <input type="checkbox"/> povečanje rabe vode | <input checked="" type="checkbox"/> sezonska nihanja porabe | <input checked="" type="checkbox"/> kapacitete za shranjevanje vode |
| <input checked="" type="checkbox"/> sprememba rabe zemljišč | <input checked="" type="checkbox"/> visoka poraba dejavnosti (kmetijstvo, industrija), etc) | |
| <input checked="" type="checkbox"/> Klimatske spremembe | <input type="checkbox"/> padec porabe | |
| <input type="checkbox"/> drugo (prosimo navedite): | | |

KAKOVOST VODE

- | | | |
|---|---|---|
| <input checked="" type="checkbox"/> točkovni pritiski onesnaženja | <input checked="" type="checkbox"/> netočkovni pritiski onesnaženja | <input type="checkbox"/> režim varovanja vodnih virov |
| <input checked="" type="checkbox"/> spremembe v rabi zemljišč | <input checked="" type="checkbox"/> sezonska nihanja | <input type="checkbox"/> Klimatske spremembe |
| <input checked="" type="checkbox"/> nova in prioriteta onesnaževala | <input type="checkbox"/> drugo (prosimo navedite) | |

OMEJITVE VEZANE NA DISTRIBUCIJO VODE

- | | | |
|--|---|---|
| <input checked="" type="checkbox"/> neprimerno omrežje (zasnova) | <input checked="" type="checkbox"/> kapacitete črpališč | <input checked="" type="checkbox"/> neustreznost vodohranov |
| <input checked="" type="checkbox"/> pomanjkljivo vzdrževanje vodovodnega Sistema | <input checked="" type="checkbox"/> staranje | |
| <input type="checkbox"/> drugo, prosimo navedite: | | |

Katere so po vašem mnenju glavne omejitve glede oskrbe s pitno vodo v bližnji prihodnosti (čez 25 let)?
(Prosimo razvrstite: od (1)- najbolj do (5) - najmanj pomembne, isti nivo je mogoče opredeliti največ dvema)

- | | | | |
|---|---|---|---|
| <input type="checkbox"/> vodne izgube | <input type="checkbox"/> vodne količine | <input checked="" type="checkbox"/> 1 kakovost vode | <input checked="" type="checkbox"/> 2 Cena vode |
| <input type="checkbox"/> zakonski okvir in opredelitev prioritete | <input type="checkbox"/> težave s financiranjem | <input checked="" type="checkbox"/> 3 Stanje infrastrukture | |
| <input type="checkbox"/> kapacitete : <input type="checkbox"/> institucij <input type="checkbox"/> tehnične kapacitete <input type="checkbox"/> človeški viri | | | |
| <input checked="" type="checkbox"/> 5 Klimatske spremembe | <input checked="" type="checkbox"/> 4 Slabo sodelovanje | <input type="checkbox"/> Drugo (opišite): | |

Katere ukrepe oz. dejavnosti prepoznavate kot najbolj pomembne za izboljšanje oskrbe s pitno vodo glede na predhodno opredeljene probleme in omejitve?

- zagotavljanje kakovostno (odgovorno odzivanje) pitne vode
- zmanjšanje izgub na vodovodnih sistemih

DRINKADRIA standardni vprašalnik za deležnike
WP3 kapitalizacija in trajnost

Ali menite da bi bilo mogoče navedene probleme in omejitve reševati z:

(Prosimo razvrstite: od (1)- najbolj do (5) - najmanj pomembne, isti nivo je mogoče opredeliti največ dvema)

- ☒ Povezanimi politikami in programi, ki bi naslovile večino področij,
☐ Ločenimi politikami in programi, ki bi naslovile večino področij,
☒ Boljšim sodelovanjem med različnimi sektorji,
☒ Boljšim sodelovanjem med lokalnim in državnim nivojem,
☒ Več finančnimi viri,
☒ Višjimi cenami vode,
☐ Drugo (navedite):

Prosimo navedite tri najpomembnejše deležnike, ki jih prepoznavate za izboljšanje oskrbe s pitno vodo in upravljanja z vodnimi viri in njihove naloge:

- 1) država naloga: skladičenje
2) lokalne skupnosti naloga: nadzor
3) upravljalec sistemov naloga: izvajanje

Katere naloge/ukrepe bi lahko vaša organizacija izvedla, da bi izboljšala oskrbo s pitno vodo in upravljanje z vodami in prispevala k njihovi trajnostni uspešnosti in učinkovitosti?

- opredelitev ukrepov in načrtu upravljanja voda
oskrbe s pitno vodo

Ali menite, da le ukrepi na državnem nivoju prispevajo k izboljšanju oskrbe s pitno vodo in varovanju virov?

☐ DA ☒ NE

Če je odgovor ne, katere institucije po vašem mnenju še imajo pomembno vlogo?

- izvajalci javne službe

Do katere mere ste seznanjeni z delom in vlogo Dvostranskih meddržavnih komisij na področju čezmejne oskrbe s pitno vodo in upravljanja z vodami?

☐ Celovito seznanjen z delom ☒ Zmerno seznanjen ☐ Pomanjkljivo seznanjen

Do katere mere ste seznanjeni z delom in vlogo lokalnih skupnosti na področju čezmejne/medobčinske oskrbe s pitno vodo in upravljanja z vodami?

☐ Celovito seznanjen z delom ☒ Zmerno seznanjen ☐ Pomanjkljivo seznanjen

DRINKADRIA standardni vprašalnik za deležnike
WP3 kapitalizacija in trajnost

Ali ste seznanjeni s pravnim okvirom (pogodbe, dogovori, memorandum, protokoli...) na podlagi katerih se izvajajo čezmejna oz. medobčinska oskrba s pitno vodo in upravljanje z vodami v vaši državi (regiji)?

☐ DA ☒ NE

Če je odgovor DA prosimo, da kratko navedete katere poznate:

Do katere mere ste seznanjeni vprašanji in omejitvami vezanimi na čezmejno oskrbo s pitno vodo in upravljanje z vodami?

☐ Celovito seznanjen ☒ Zmerno seznanjen ☐ Pomanjkljivo seznanjen
Prosimo za dodatne komentarje:

Izvajanje okvirne vodne direktive in priprava načrtov upravljanja z vodami v vaši državi je :

☐ Zaključeno ☒ V teku ☐ Se začneja ☐ Nisem seznanjen

Prosimo za dodatne komentarje:

Izvajanje okvirne vodne direktive in priprava načrtov upravljanja z vodami na čezmejnih vodnih telesih je :

☐ Zaključeno ☒ V teku ☐ Se začneja ☐ Nisem seznanjen

Prosimo za dodatne komentarje:

Katere so najbolj pomembne vsebine s katerimi bi želeli biti seznanjeni/se poglobiti glede čezmejne/regionalne oskrbe s pitno vodo in upravljanja z vodami.

Ali je uvodna delavnica projekta DRINKADRIA izpolnila vaša pričakovanja?

☒ DA ☐ NE ☐ delno

Dodatni komentarji – predlogi za izboljšanje :

Networking for Drinking Water Supply in Adriatic Region

VPRAŠALNIK O ČEZMEJNIH OZ. MEOBČINSKIH SISTEMIH OSKRBE S PITNO VODO IN UPRAVLJANJU Z VODNIMI VIRI

Prenos vsebin projekta v prakso in trajni učinki projekta so pomembna vsebina projekta, ki postavlja okvir za izmenjavo informacij o pomenu čezmejne oskrbe s pitno vodo med različnimi deležniki.

Informacije, ki jih boste podali preko tega vprašalnika bodo osnova za nadaljnje delo in podoba pomembno vplivale na uspešno izvajanje projekta DRINKADRIA.

Ime:	MIRAN
Priimek:	JUNČIČ
Organizacija (vsebin ni potrebno izpolniti)	OKP - d.o.o. ROGAČICA SLATINA

Glavno področje dela vase organizacije:

☒ Izvajalec javne službe oskrbe s pitno vodo ☐ Uprava: ☐ lokalna ☐ regionalna ☐ državna
☐ Raziskovalna organizacija ☐ Združenje ☐ Drugo (prosimo navedite):

Glavno področje dela:

☒ oskrba s pitno vodo ☐ varovanje voda ☐ izobraževanje/raziskave
☐ mednarodno sodelovanje ☐ finančni vidiki/pravo ☐ Drugo (prosimo navedite):

Kateri prostorski okvir najbolj opredeljuje vase dejavnosti in naloge?
(Prosimo uporabite odstotno oceno področja tako, da je vsota 100%)

Lokalno ⁸¹ % regionalno % državno % mednarodno ² % drugo (navedite): _____, _____ %

Kateri problem na področju oskrbe s pitno vodo trenutno prepoznavate kot najbolj pomembne?
(Prosimo razvrstite: 1 najbolj do, 5 najmanj pomembne, isti nivo je mogoče opredeliti največ dvema)

☐ vodne izgube ☒ vodne količine ☐ kakovost vode ☐ Cena vode
☐ zakonski okvir in opredelitev prioritete ☒ težave s financiranjem ☐ Stanje infrastrukture
☐ kapacitete: ☐ institucij ☐ tehnične kapacitete ☐ človeški viri
☒ Klimatske spremembe ☐ Slabo sodelovanje ☐ Drugo (opišite):

DRINKADRIA standardni vprašalnik za deležnike
WP3 kapitalizacija in trajnost

Prosimo opredelite prioritete glede prej navedenih problemskih sklopov:
(Prosimo razvrstite: od (1)- najbolj do (5) - najmanj pomembne, isti nivo je mogoče opredeliti največ dvema)

VODNE IZGUBE

- ☐ nedovoljeni odvzemi ☐ napake pri meritvah porabe vode ☐ dejanske izgube na distribuciji
☐ izgube na priključkih ☐ izgube na objektih (npr. Prelivanje vodohramov)
☐ druge (navedite):

VODNE KOLIČINE

- ☐ povečanje rabe vode ☐ sezonska nihanja porabe ☐ kapacitete za shranjevanje vode
☐ sprememba rabe zemljišč ☐ visoka poraba dejavnosti (kmetijstvo, industrija), etc)
☐ Klimatske spremembe ☐ padec porabe
☐ drugo (prosimo navedite):

KAKOVOST VODE

- ☐ točkovni pritiski onesnaženja ☐ netočkovni pritiski onesnaženja ☐ režim varovanja vodnih virov
☐ spremembe v rabi zemljišč ☐ sezonska nihanja ☐ Klimatske spremembe
☐ nova in prioriteta onesnaževala ☐ drugo (prosimo navedite):

OMEJITVE VEZANE NA DISTRIBUCIJO VODE

- ☐ neprimerno omrežje (zasnova) ☐ kapacitete črpališč ☐ neustreznost vodohranov
☐ pomanjkljivo vzdrževanje vodovodnega Sistema ☐ staranje
☐ drugo, prosimo navedite:

Katere so po vašem mnenju glavne omejitve glede oskrbe s pitno vodo v bližnji prihodnosti (čez 25 let)?
(Prosimo razvrstite: od (1)- najbolj do (5) - najmanj pomembne, isti nivo je mogoče opredeliti največ dvema)

- ☐ vodne izgube ☐ vodne količine ☐ kakovost vode ☐ Cena vode
☐ zakonski okvir in opredelitev prioritete ☐ težave s financiranjem ☐ Stanje infrastrukture
☐ kapacitete : ☐ institucij ☐ tehnične kapacitete ☐ človeški viri
☐ Klimatske spremembe ☐ Slabo sodelovanje ☐ Drugo (opišite):

Katere ukrepe oz. dejavnosti prepoznavate kot najbolj pomembne za izboljšanje oskrbe s pitno vodo glede na predhodno opredeljene probleme in omejitve?

DRINKADRIA standardni vprašalnik za deležnike
WP3 kapitalizacija in trajnost

Ali menite da bi bilo mogoče navedene probleme in omejitve reševati z:

(Prosimo razvrstite: od (1)- najbolj do (5) - najmanj pomembne, isti nivo je mogoče opredeliti največ dvema)

- ☒ Povezanimi politikami in programi, ki bi naslovile večino področij,
☐ Ločenimi politikami in programi, ki bi naslovile večino področij,
☐ Boljšim sodelovanjem med različnimi sektorji,
☒ Boljšim sodelovanjem med lokalnim in državnim nivojem,
☒ Več finančnimi viri,
☐ Višjimi cenami vode,
☐ Drugo (navedite):

Prosimo navedite tri najpomembnejše deležnike, ki jih prepoznate za izboljšanje oskrbe s pitno vodo in upravljanja z vodnimi viri in njihove naloge:

- 1) POSREDOVNI VOD VOD naloga: _____
2) ZASOTA VOD - VOD naloga: _____
3) _____ naloga: _____

Katere naloge/ukrepe bi lahko vaša organizacija izvedla, da bi izboljšala oskrbo s pitno vodo in upravljanje z vodami in prispevala k njihovi trajnostni uspešnosti in učinkovitosti?

- POSREDOVNI VOD VOD POSREDOVNI VOD VOD
- ZASOTA VOD
- POSREDOVNI VOD VOD POSREDOVNI VOD VOD POSREDOVNI VOD VOD

Ali menite, da le ukrepi na državnem nivoju prispevajo k izboljšanju oskrbe s pitno vodo in varovanju virov?

☐ DA ☒ NE

Če je odgovor ne, katere institucije po vašem mnenju še imajo pomembno vlogo?

TUDI LOKALNE SKUPNOSTI - OBČINE

Do katere mere ste seznanjeni z delom in vlogo Dvostranskih meddržavnih komisij na področju čezmejne oskrbe s pitno vodo in upravljanja z vodami?

☐ Celovito seznanjen z delom ☐ Zmerno seznanjen ☒ Pomanjkljivo seznanjen

Do katere mere ste seznanjeni z delom in vlogo lokalnih skupnosti na področju čezmejne/medobčinske oskrbe s pitno vodo in upravljanja z vodami?

☐ Celovito seznanjen z delom ☒ Zmerno seznanjen ☐ Pomanjkljivo seznanjen

DRINKADRIA standardni vprašalnik za deležnike
WP3 kapitalizacija in trajnost

Ali ste seznanjeni s pravnim okvirom (pogodbe, dogovori, memorandum, protokoli...) na podlagi katerih se izvajajo čezmejna oz. medobčinska oskrba s pitno vodo in upravljanje z vodami v vaši državi (regiji)?

☐ DA ☒ NE

Če je odgovor DA prosimo, da kratko navedete katere poznate:

Do katere mere ste seznanjeni vprašanji in omejitvami vezanimi na čezmejno oskrbo s pitno vodo in upravljanje z vodami?

☐ Celovito seznanjen ☐ Zmerno seznanjen ☒ Pomanjkljivo seznanjen
Prosimo za dodatne komentarje:

Izvajanje okvirne vodne direktive in priprava načrtov upravljanja z vodami v vaši državi je :

☐ Zaključeno ☐ V teku ☐ Se začneja ☒ Nisem seznanjen

Prosimo za dodatne komentarje:

Izvajanje okvirne vodne direktive in priprava načrtov upravljanja z vodami na čezmejnih vodnih telesih je :

☐ Zaključeno ☐ V teku ☐ Se začneja ☒ Nisem seznanjen

Prosimo za dodatne komentarje:

Katere so najbolj pomembne vsebine s katerimi bi želeli biti seznanjeni/se poglobiti glede čezmejne/regionalne oskrbe s pitno vodo in upravljanja z vodami.

Ali je uvodna delavnica projekta DRINKADRIA izpolnila vaša pričakovanja?

☒ DA ☐ NE ☐ delno

Dodatni komentarji – predlogi za izboljšanje :

Networking for Drinking Water Supply in Adriatic Region

VPRAŠALNIK O ČEZMEJNIH OZ. MEOBČINSKIH SISTEMIH OSKRBE S PITNO VODO IN UPRAVLJANJU Z VODNIMI VIRI

Prenos vsebin projekta v prakso in trajni učinki projekta so pomembna vsebina projekta, ki postavlja okvir za izmenjavo informacij o pomenu čezmejne oskrbe s pitno vodo med različnimi deležniki.

Informacije, ki jih boste podali preko tega vprašalnika bodo osnova za nadaljnje delo in podoba pomembno vplivale na uspešno izvajanje projekta DRINKADRIA.

Ime:	MARKO
Priimek:	ČSPAN
Organizacija (vsebin ni potrebno izpolniti)	
Glavno področje dela vase organizacije:	
<input checked="" type="checkbox"/> Izvajalec javne službe oskrbe s pitno vodo <input type="checkbox"/> Uprava: <input type="checkbox"/> lokalna <input type="checkbox"/> regionalna <input type="checkbox"/> državna <input type="checkbox"/> Raziskovalna organizacija <input type="checkbox"/> Združenje <input type="checkbox"/> Drugo (prosimo navedite):	
Glavno področje dela:	
<input checked="" type="checkbox"/> oskrba s pitno vodo <input type="checkbox"/> varovanje voda <input type="checkbox"/> izobraževanje/raziskave <input type="checkbox"/> mednarodno sodelovanje <input type="checkbox"/> finančni vidiki/pravo <input type="checkbox"/> Drugo (prosimo navedite):	
Kateri prostorski okvir najbolj opredeljuje vase dejavnosti in naloge? (Prosimo uprabite odstotno oceno področja tako, da je vsota 100%)	
Lokalno <u>90</u> % regionalno <u>10</u> % državno <u> </u> % mednarodno <u> </u> % drugo (navedite): <u> </u> , <u> </u> %	
Katere problem na področju oskrbe s pitno vodo trenutno prepoznavate kot najbolj pomembne? (Prosimo razvrstite: 1 najbolj do, 5 najmanj pomembne, isti nivo je mogoče opredeliti največ dvema)	
<u>3</u> <input checked="" type="checkbox"/> vodne izgube <input type="checkbox"/> vodne količine <input checked="" type="checkbox"/> kakovost vode <input type="checkbox"/> Cena vode <input checked="" type="checkbox"/> zakonski okvir in opredelitev prioritet <input checked="" type="checkbox"/> težave s financiranjem <input checked="" type="checkbox"/> Stanje infrastrukture <input type="checkbox"/> kapacitete : <input type="checkbox"/> institucij <input type="checkbox"/> tehnične kapacitete <input type="checkbox"/> človeški viri <input type="checkbox"/> Klimatske spremembe <input type="checkbox"/> Slabo sodelovanje <input type="checkbox"/> Drugo (opišite):	

DRINKADRIA standardni vprašalnik za deležnike
WP3 kapitalizacija in trajnost

Prosimo opredelite prioritete glede prej navedenih problemskih sklopov:
(Prosimo razvrstite: od (1)- najbolj do (5) - najmanj pomembne, isti nivo je mogoče opredeliti največ dvema)

VODNE IZGUBE

- 4 ☐ nedovoljeni odvzemi 3 ☐ napake pri meritvah porabe vode 1 ☐ dejanske izgube na distribuciji
2 ☐ izgube na priključkih ☐ izgube na objektih (npr. Prelivanje vodohramov)
☐ druge (navedite):

VODNE KOLIČINE

- ☐ povečanje rabe vode ☐ sezonska nihanja porabe ☐ kapacitete za shranjevanje vode
☐ sprememba rabe zemljišč ☐ visoka poraba dejavnosti (kmetijstvo, industrija), etc)
☐ Klimatske spremembe ☒ padec porabe
☐ drugo (prosimo navedite):

KAKOVOST VODE

- 1 ☐ točkovni pritiski onesnaženja 3 ☐ netočkovni pritiski onesnaženja 4 ☐ režim varovanja vodnih virov
2 ☐ spremembe v rabi zemljišč ☐ sezonska nihanja ☐ Klimatske spremembe
5 ☐ nova in prioriteta onesnaževala ☐ drugo (prosimo navedite)

OMEJITVE VEZANE NA DISTRIBUCIJO VODE

- 5 ☐ neprimerno omrežje (zasnova) 4 ☐ kapacitete črpališč 3 ☐ neustreznost vodohranov
1 ☐ pomanjkljivo vzdrževanje vodovodnega Sistema 2 ☐ staranje
☐ drugo, prosimo navedite:

Katere so po vašem mnenju glavne omejitve glede oskrbe s pitno vodo v bližnji prihodnosti (čez 25 let)?
(Prosimo razvrstite: od (1)- najbolj do (5) - najmanj pomembne, isti nivo je mogoče opredeliti največ dvema)

- 4 ☐ vodne izgube ☐ vodne količine 3 ☐ kakovost vode ☐ Cena vode
5 ☐ zakonski okvir in opredelitev prioritete 2 ☐ težave s financiranjem 1 ☐ Stanje infrastrukture
☐ kapacitete : ☐ institucij ☐ tehnične kapacitete ☐ človeški viri
☐ Klimatske spremembe ☐ Slabo sodelovanje ☐ Drugo (opišite):

Katere ukrepe oz. dejavnosti prepoznate kot najbolj pomembne za izboljšanje oskrbe s pitno vodo glede na predhodno opredeljene probleme in omejitve?

DRINKADRIA standardni vprašalnik za deležnike
WP3 kapitalizacija in trajnost

Ali menite da bi bilo mogoče navedene probleme in omejitve reševati z:

(Prosimo razvrstite: od (1)- najbolj do (5) - najmanj pomembne, isti nivo je mogoče opredeliti največ dvema)

- ☒ Povezanimi politikami in programi, ki bi naslovile večino področij,
☐ Ločenimi politikami in programi, ki bi naslovile večino področij,
☒ Boljšim sodelovanjem med različnimi sektorji,
☒ Boljšim sodelovanjem med lokalnim in državnim nivojem,
☒ Več finančnimi viri,
☒ Višjimi cenami vode,
☐ Drugo (navedite):

Prosimo navedite tri najpomembnejše deležnike, ki jih prepoznavate za izboljšanje oskrbe s pitno vodo in upravljanja z vodnimi viri in njihove naloge: SREDSTVA ZA INVESTICIJE

- 1) NAMENSKA RABA naloga: _____
2) OBNOVA OPIREČIJ naloga: _____
3) _____ naloga: _____

Katere naloge/ukrepe bi lahko vaša organizacija izvedla, da bi izboljšala oskrbo s pitno vodo in upravljanje z vodami in prispevala k njihovi trajnostni uspešnosti in učinkovitosti?

- IZBOLJŠANJE KAKOVOSTI NAPOJNE VODOVODNEGA SISTEMA,
- HITREJŠA ODPRAVA OKVAR,

Ali menite, da le ukrepi na državnem nivoju prispevajo k izboljšanju oskrbe s pitno vodo in varovanju virov?

☒ DA ☐ NE

Če je odgovor ne, katere institucije po vašem mnenju še imajo pomembno vlogo?

Do katere mere ste seznanjeni z delom in vlogo Dvostranskih meddržavnih komisij na področju čezmejne oskrbe s pitno vodo in upravljanja z vodami?

☐ Celovito seznanjen z delom ☐ Zmerno seznanjen ☒ Pomanjkljivo seznanjen

Do katere mere ste seznanjeni z delom in vlogo lokalnih skupnosti na področju čezmejne/medobčinske oskrbe s pitno vodo in upravljanja z vodami?

☐ Celovito seznanjen z delom ☒ Zmerno seznanjen ☐ Pomanjkljivo seznanjen

DRINKADRIA standardni vprašalnik za deležnike
WP3 kapitalizacija in trajnost

Ali ste seznanjeni s pravnim okvirom (pogodbe, dogovori, memorandum, protokoli...) na podlagi katerih se izvajajo čezmejna oz. medobčinska oskrba s pitno vodo in upravljanje z vodami v vaši državi (regiji)?

☐ DA ☒ NE

Če je odgovor DA prosimo, da kratko navedete katere poznate:

Do katere mere ste seznanjeni vprašanji in omejitvami vezanimi na čezmejno oskrbo s pitno vodo in upravljanje z vodami?

☐ Celovito seznanjen ☐ Zmerno seznanjen ☒ Pomanjkljivo seznanjen
Prosimo za dodatne komentarje:

Izvajanje okvirne vodne direktive in priprava načrtov upravljanja z vodami v vaši državi je :

☐ Zaključeno ☐ V teku ☐ Se začneja ☒ Nisem seznanjen

Prosimo za dodatne komentarje:

Izvajanje okvirne vodne direktive in priprava načrtov upravljanja z vodami na čezmejnih vodnih telesih je :

☐ Zaključeno ☐ V teku ☐ Se začneja ☒ Nisem seznanjen

Prosimo za dodatne komentarje:

Katere so najbolj pomembne vsebine s katerimi bi želeli biti seznanjeni/se poglobiti glede čezmejne/regionalne oskrbe s pitno vodo in upravljanja z vodami.

Ali je uvodna delavnica projekta DRINKADRIA izpolnila vaša pričakovanja?

☒ DA ☐ NE ☐ delno

Dodatni komentarji – predlogi za izboljšanje :

Networking for Drinking Water Supply in Adriatic Region

VPRAŠALNIK O ČEZMEJNIH OZ. MEOBČINSKIH SISTEMIH OSKRBE S PITNO VODO IN UPRAVLJANJU Z VODNIMI VIRI

Prenos vsebin projekta v prakso in trajni učinki projekta so pomembna vsebina projekta, ki postavlja okvir za izmenjavo informacij o pomenu čezmejne oskrbe s pitno vodo med različnimi deležniki.

Informacije, ki jih boste podali preko tega vprašalnika bodo osnova za nadaljnje delo in podoba pomembno vplivale na uspešno izvajanje projekta DRINKADRIA.

Ime:	
Priimek:	
Organizacija (vsebin ni potrebno izpolniti)	

Glavno področje dela vase organizacije:

☒ Izvajalec javne službe oskrbe s pitno vodo ☐ Uprava: ☐ lokalna ☐ regionalna ☐ državna
☐ Raziskovalna organizacija ☐ Združenje ☐ Drugo (prosimo navedite):

Glavno področje dela:

☒ oskrba s pitno vodo ☐ varovanje voda ☐ izobraževanje/raziskave
☐ mednarodno sodelovanje ☐ finančni vidiki/pravo ☐ Drugo (prosimo navedite):

Kateri prostorski okvir najboljše opredeljuje vase dejavnosti in naloge?
(Prosimo uporabite odstotno oceno področja tako, da je vsota 100%)

Lokalno __ % regionalno __ % državno __ % mednarodno __ % drugo (navedite): _____, __ %

Kateri problem na področju oskrbe s pitno vodo trenutno prepoznavate kot najbolj pomembne?
(Prosimo razvrstite: 1 najbolj do, 5 najmanj pomembne, isti nivo je mogoče opredeliti največ dvema)

☒ vodne izgube ☒ vodne količine ☒ kakovost vode ☒ Cena vode
☐ zakonski okvir in opredelitev prioritet ☐ težave s financiranjem ☒ Stanje infrastrukture
☐ kapacitete: ☒ institucij ☒ tehnične kapacitete ☒ človeški viri
☒ Klimatske spremembe ☒ Slabo sodelovanje ☐ Drugo (opišite):

DRINKADRIA standardni vprašalnik za deležnike
WP3 kapitalizacija in trajnost

Prosimo opredelite prioritete glede prej navedenih problemskih sklopov:
(Prosimo razvrstite: od (1)- najbolj do (5) - najmanj pomembne, isti nivo je mogoče opredeliti največ dvema)

VODNE IZGUBE

- ☒ nedovoljeni odvzemi ☒ napake pri meritvah porabe vode ☒ dejanske izgube na distribuciji
☒ izgube na priključkih ☒ izgube na objektih (npr. Prelivanje vodohramov)
☐ druge (navedite):

VODNE KOLIČINE

- ☐ povečanje rabe vode ☒ sezonska nihanja porabe ☒ kapacitete za shranjevanje vode
☒ sprememba rabe zemljišč ☐ visoka poraba dejavnosti (kmetijstvo, industrija), etc)
☒ Klimatske spremembe ☒ padec porabe
☐ drugo (prosimo navedite):

KAKOVOST VODE

- ☒ točkovni pritiski onesnaženja ☐ netočkovni pritiski onesnaženja ☒ režim varovanja vodnih virov
☒ spremembe v rabi zemljišč ☒ sezonska nihanja ☒ Klimatske spremembe
☐ nova in prioriteta onesnaževala ☐ drugo (prosimo navedite)

OMEJITVE VEZANE NA DISTRIBUCIJO VODE

- ☒ neprimerno omrežje (zasnova) ☒ kapacitete črpališč ☒ neustreznost vodohranov
☒ pomanjkljivo vzdrževanje vodovodnega Sistema ☒ staranje
☐ drugo, prosimo navedite:

Katere so po vašem mnenju glavne omejitve glede oskrbe s pitno vodo v bližnji prihodnosti (čez 25 let)?
(Prosimo razvrstite: od (1)- najbolj do (5) - najmanj pomembne, isti nivo je mogoče opredeliti največ dvema)

- ☐ vodne izgube ☒ vodne količine ☒ kakovost vode ☒ Cena vode
☐ zakonski okvir in opredelitev prioritete ☐ težave s financiranjem ☒ Stanje infrastrukture
☐ kapacitete : ☒ institucij ☒ tehnične kapacitete ☒ človeški viri
☒ Klimatske spremembe ☒ Slabo sodelovanje ☐ Drugo (opišite):

Katere ukrepe oz. dejavnosti prepoznavate kot najbolj pomembne za izboljšanje oskrbe s pitno vodo glede na predhodno opredeljene probleme in omejitve?

DRINKADRIA standardni vprašalnik za deležnike
WP3 kapitalizacija in trajnost

Ali menite da bi bilo mogoče navedene probleme in omejitve reševati z:

(Prosimo razvrstite: od (1)- najbolj do (5) - najmanj pomembne, isti nivo je mogoče opredeliti največ dvema)

- ☒ Povezanimi politikami in programi, ki bi naslovile večino področij,
- ☐ Ločenimi politikami in programi, ki bi naslovile večino področij,
- ☒ Boljšim sodelovanjem med različnimi sektorji,
- ☒ Boljšim sodelovanjem med lokalnim in državnim nivojem,
- ☒ Več finančnimi viri,
- ☒ Višjimi cenami vode,
- ☐ Drugo (navedite):

Prosimo navedite tri najpomembnejše deležnike, ki jih prepoznavate za izboljšanje oskrbe s pitno vodo in upravljanja z vodnimi viri in njihove naloge:

- 1) _____ naloga: _____
- 2) _____ naloga: _____
- 3) _____ naloga: _____

Katere naloge/ukrepe bi lahko vaša organizacija izvedla, da bi izboljšala oskrbo s pitno vodo in upravljanje z vodami in prispevala k njihovi trajnostni uspešnosti in učinkovitosti?

Ali menite, da le ukrepi na državnem nivoju prispevajo k izboljšanju oskrbe s pitno vodo in varovanju virov?

☒ DA ☐ NE

Če je odgovor ne, katere institucije po vašem mnenju še imajo pomembno vlogo?

Do katere mere ste seznanjeni z delom in vlogo Dvostranskih meddržavnih komisij na področju čezmejne oskrbe s pitno vodo in upravljanja z vodami?

☐ Celovito seznanjen z delom ☐ Zmerno seznanjen ☒ Pomanjkljivo seznanjen

Do katere mere ste seznanjeni z delom in vlogo lokalnih skupnosti na področju čezmejne/medobčinske oskrbe s pitno vodo in upravljanja z vodami?

☐ Celovito seznanjen z delom ☐ Zmerno seznanjen ☒ Pomanjkljivo seznanjen

DRINKADRIA standardni vprašalnik za deležnike
WP3 kapitalizacija in trajnost

Ali ste seznanjeni s pravnim okvirom (pogodbe, dogovori, memorandum, protokoli...) na podlagi katerih se izvajajo čezmejna oz. medobčinska oskrba s pitno vodo in upravljanje z vodami v vaši državi (regiji)?

☐ DA ☒ NE

Če je odgovor DA prosimo, da kratko navedete katere poznate:

Do katere mere ste seznanjeni vprašanji in omejitvami vezanimi na čezmejno oskrbo s pitno vodo in upravljanje z vodami?

☐ Celovito seznanjen ☐ Zmerno seznanjen ☒ Pomanjkljivo seznanjen
Prosimo za dodatne komentarje:

Izvajanje okvirne vodne direktive in priprava načrtov upravljanja z vodami v vaši državi je :

☐ Zaključeno ☐ V teku ☐ Se začena ☒ Nisem seznanjen

Prosimo za dodatne komentarje:

Izvajanje okvirne vodne direktive in priprava načrtov upravljanja z vodami na čezmejnih vodnih telesih je :

☐ Zaključeno ☐ V teku ☐ Se začena ☒ Nisem seznanjen

Prosimo za dodatne komentarje:

Katere so najbolj pomembne vsebine s katerimi bi želeli biti seznanjeni/se poglobiti glede čezmejne/regionalne oskrbe s pitno vodo in upravljanja z vodami.

Ali je uvodna delavnica projekta DRINKADRIA izpolnila vaša pričakovanja?

☐ DA ☐ NE ☒ delno

Dodatni komentarji – predlogi za izboljšanje :

Networking for Drinking Water Supply in Adriatic Region

VPRAŠALNIK O ČEZMEJNIH OZ. MEOBČINSKIH SISTEMIH OSKRBE S PITNO VODO IN UPRAVLJANJU Z VODNIMI VIRI

Prenos vsebin projekta v prakso in trajni učinki projekta so pomembna vsebina projekta, ki postavlja okvir za izmenjavo informacij o pomenu čezmejne oskrbe s pitno vodo med različnimi deležniki.

Informacije, ki jih boste podali preko tega vprašalnika bodo osnova za nadaljnje delo in podoba pomembno vplivale na uspešno izvajanje projekta DRINKADRIA.

Ime:	
Priimek:	
Organizacija (vsebin ni potrebno izpolniti)	

Glavno področje dela vase organizacije:

☒ Izvajalec javne službe oskrbe s pitno vodo ☐ Uprava: ☐ lokalna ☐ regionalna ☐ državna
☐ Raziskovalna organizacija ☐ Združenje ☐ Drugo (prosimo navedite):

Glavno področje dela:

☒ oskrba s pitno vodo ☐ varovanje voda ☐ izobraževanje/raziskave
☐ mednarodno sodelovanje ☐ finančni vidiki/pravo ☐ Drugo (prosimo navedite):

Kateri prostorski okvir najbolj opredeljuje vase dejavnosti in naloge?
(Prosimo uporabite odstotno oceno področja tako, da je vsota 100%)

Lokalno ¹⁰⁰ % regionalno % državno % mednarodno % drugo (navedite): _____ %

Kateri problem na področju oskrbe s pitno vodo trenutno prepoznavate kot najbolj pomembne?
(Prosimo razvrstite: 1 najbolj do, 5 najmanj pomembne, isti nivo je mogoče opredeliti največ dvema)

☒ ² vodne izgube ☐ ⁵ vodne količine ☒ ¹ kakovost vode ☐ Cena vode
☐ zakonski okvir in opredelitev prioritet ☐ težave s financiranjem ☒ ² stanje infrastrukture
☐ kapacitete: ☐ institucij ☐ tehnične kapacitete ☐ človeški viri
☐ Klimatske spremembe ☐ Slabo sodelovanje ☐ Drugo (opišite):

DRINKADRIA standardni vprašalnik za deležnike
WP3 kapitalizacija in trajnost

Prosimo opredelite prioritete glede prej navedenih problemskih sklopov:
(Prosimo razvrstite: od (1)- najbolj do (5) - najmanj pomembne, isti nivo je mogoče opredeliti največ dvema)

VODNE IZGUBE

- ☒ 3 nedovoljeni odvzemi ☒ 4 napake pri meritvah porabe vode ☒ 2 dejanske izgube na distribuciji
☒ 2 izgube na priključkih ☒ 2 izgube na objektih (npr. Prelivanje vodohramov)
☐ druge (navedite):

VODNE KOLIČINE

- ☒ 4 povečanje rabe vode ☒ 2 sezonska nihanja porabe ☒ 2 kapacitete za shranjevanje vode
☒ 2 sprememba rabe zemljišč ☒ 1 visoka poraba dejavnosti (kmetijstvo, industrija), etc)
☒ 2 Klimatske spremembe ☒ 2 padec porabe
☐ drugo (prosimo navedite):

KAKOVOST VODE

- ☒ 2 točkovni pritiski onesnaženja ☒ 3 netočkovni pritiski onesnaženja ☒ 3 režim varovanja vodnih virov
☒ 2 spremembe v rabi zemljišč ☒ 2 sezonska nihanja ☒ 2 Klimatske spremembe
☒ 4 nova in prioriteta onesnaževala ☐ drugo (prosimo navedite)

OMEJITVE VEZANE NA DISTRIBUCIJO VODE

- ☒ 1 neprimerno omrežje (zasnova) ☒ 4 kapacitete črpališč ☒ 2 neustreznost vodohranov
☒ 2 pomanjkljivo vzdrževanje vodovodnega Sistema ☒ 2 staranje
☐ drugo, prosimo navedite:

Katere so po vašem mnenju glavne omejitve glede oskrbe s pitno vodo v bližnji prihodnosti (čez 25 let)?
(Prosimo razvrstite: od (1)- najbolj do (5) - najmanj pomembne, isti nivo je mogoče opredeliti največ dvema)

- ☒ 2 vodne izgube ☒ 2 vodne količine ☒ 2 kakovost vode ☐ Cena vode
☐ zakonski okvir in opredelitev prioritete ☐ težave s financiranjem ☐ Stanje infrastrukture
☐ kapacitete : ☐ institucij ☐ tehnične kapacitete ☐ človeški viri
☐ Klimatske spremembe ☐ Slabo sodelovanje ☐ Drugo (opišite):

Katere ukrepe oz. dejavnosti prepoznavate kot najbolj pomembne za izboljšanje oskrbe s pitno vodo glede na predhodno opredeljene probleme in omejitve?

DRINKADRIA standardni vprašalnik za deležnike
WP3 kapitalizacija in trajnost

Ali menite da bi bilo mogoče navedene probleme in omejitve reševati z:

(Prosimo razvrstite: od (1)- najbolj do (5) - najmanj pomembne, isti nivo je mogoče opredeliti največ dvema)

- ☐ Povezanimi politikami in programi, ki bi naslovile večino področij,
- ☐ Ločenimi politikami in programi, ki bi naslovile večino področij,
- ☐ Boljšim sodelovanjem med različnimi sektorji,
- ☐ Boljšim sodelovanjem med lokalnim in državnim nivojem,
- ☐ Več finančnimi viri,
- ☐ Višjimi cenami vode,
- ☐ Drugo (navedite):

Prosimo navedite tri najpomembnejše deležnike, ki jih prepoznavate za izboljšanje oskrbe s pitno vodo in upravljanja z vodnimi viri in njihove naloge:

- 1) _____ naloga: _____
- 2) _____ naloga: _____
- 3) _____ naloga: _____

Katere naloge/ukrepe bi lahko vaša organizacija izvedla, da bi izboljšala oskrbo s pitno vodo in upravljanje z vodami in prispevala k njihovi trajnostni uspešnosti in učinkovitosti?

Ali menite, da le ukrepi na državnem nivoju prispevajo k izboljšanju oskrbe s pitno vodo in varovanju virov?

☐ DA ☐ NE

Če je odgovor ne, katere institucije po vašem mnenju še imajo pomembno vlogo?

Do katere mere ste seznanjeni z delom in vlogo Dvostranskih meddržavnih komisij na področju čezmejne oskrbe s pitno vodo in upravljanja z vodami?

☐ Celovito seznanjen z delom ☐ Zmerno seznanjen ☐ Pomanjkljivo seznanjen

Do katere mere ste seznanjeni z delom in vlogo lokalnih skupnosti na področju čezmejne/medobčinske oskrbe s pitno vodo in upravljanja z vodami?

☐ Celovito seznanjen z delom ☐ Zmerno seznanjen ☐ Pomanjkljivo seznanjen

DRINKADRIA standardni vprašalnik za deležnike
WP3 kapitalizacija in trajnost

Ali ste seznanjeni s pravnim okvirom (pogodbe, dogovori, memorandum, protokoli...) na podlagi katerih se izvajajo čezmejna oz. medobčinska oskrba s pitno vodo in upravljanje z vodami v vaši državi (regiji)?

☐ DA ☐ NE

Če je odgovor DA prosimo, da kratko navedete katere poznate:

Do katere mere ste seznanjeni vprašanji in omejitvami vezanimi na čezmejno oskrbo s pitno vodo in upravljanje z vodami?

☐ Celovito seznanjen ☐ Zmerno seznanjen ☐ Pomanjkljivo seznanjen

Prosimo za dodatne komentarje:

Izvajanje okvirne vodne direktive in priprava načrtov upravljanja z vodami v vaši državi je :

☐ Zaključeno ☐ V teku ☐ Se začena ☐ Nisem seznanjen

Prosimo za dodatne komentarje:

Izvajanje okvirne vodne direktive in priprava načrtov upravljanja z vodami na čezmejnih vodnih telesih je :

☐ Zaključeno ☐ V teku ☐ Se začena ☐ Nisem seznanjen

Prosimo za dodatne komentarje:

Katere so najbolj pomembne vsebine s katerimi bi želeli biti seznanjeni/se poglobiti glede čezmejne/regionalne oskrbe s pitno vodo in upravljanja z vodami.

Ali je uvodna delavnica projekta DRINKADRIA izpolnila vaša pričakovanja?

☐ DA ☐ NE ☐ delno

Dodatni komentarji – predlogi za izboljšanje :

VPRAŠALNIK O ČEZMEJNIH OZ. MEOBČINSKIH SISTEMIH OSKRBE S PITNO VODO IN UPRAVLJANJU Z VODNIMI VIRI

Prenos vsebin projekta v prakso in trajni učinki projekta so pomembna vsebina projekta, ki postavlja okvir za izmenjavo informacij o pomenu čezmejne oskrbe s pitno vodo med različnimi deležniki.

Informacije, ki jih boste podali preko tega vprašalnika bodo osnova za nadaljnje delo in podoba pomembno vplivale na uspešno izvajanje projekta DRINKADRIA.

Ime:	
Priimek:	
Organizacija (vsebin ni potrebno izpolniti)	

Glavno področje dela vase organizacije:

☐ Izvajalec javne službe oskrbe s pitno vodo
 ☒ Uprava:
 ☐ lokalna
 ☐ regionalna
 ☒ državna
☐ Raziskovalna organizacija
 ☐ Združenje
 ☐ Drugo (prosimo navedite):

Glavno področje dela:

☐ oskrba s pitno vodo
 ☒ varovanje voda
 ☐ izobraževanje/raziskave
☐ mednarodno sodelovanje
 ☐ finančni vidiki/pravo
 ☐ Drugo (prosimo navedite):

Kateri prostorski okvir najboljše opredeljuje vase dejavnosti in naloge?
(Prosimo uprabite odstotno oceno področja tako, da je vsota 100%)

Lokalno __ % regionalno __ % državno 80 % mednarodno 20 % drugo (navedite): ____, __ %

Katere problem na področju oskrbe s pitno vodo trenutno prepoznavate kot najbolj pomembne?
(Prosimo razvrstite: 1 najbolj do, 5 najmanj pomembne, isti nivo je mogoče opredeliti največ dvema)

☒ vodne izgube ☒ vodne količine ☐ kakovost vode ☐ Cena vode
☐ zakonski okvir in opredelitev prioritet ☐ težave s financiranjem ☒ Stanje infrastrukture
☒ kapacitete : ☐ institucij ☐ tehnične kapacitete ☒ človeški viri
☒ Klimatske spremembe ☐ Slabo sodelovanje ☐ Drugo (opišite):

DRINKADRIA standardni vprašalnik za deležnike
WP3 kapitalizacija in trajnost

Prosimo opredelite prioritete glede prej navedenih problemskih sklopov:
(Prosimo razvrstite: od (1)- najbolj do (5) - najmanj pomembne, isti nivo je mogoče opredeliti največ dvema)

VODNE IZGUBE

- ☒ 3 nedovoljeni odvzemi ☒ 4 napake pri meritvah porabe vode ☒ 4 dejanske izgube na distribuciji
☒ 2 izgube na priključkih ☒ 5 izgube na objektih (npr. Prelivanje vodohramov)
☐ druge (navedite):

VODNE KOLIČINE

- ☐ povečanje rabe vode ☒ 5 sezonska nihanja porabe ☒ 3 kapacitete za shranjevanje vode
☐ sprememba rabe zemljišč ☒ 4 visoka poraba dejavnosti (kmetijstvo, industrija), etc)
☒ 4 Klimatske spremembe ☒ 4 padec porabe
☐ drugo (prosimo navedite):

KAKOVOST VODE

- ☒ 2 točkovni pritiski onesnaženja ☒ 5 netočkovni pritiski onesnaženja ☒ 4 režim varovanja vodnih virov
☒ 2 spremembe v rabi zemljišč ☐ sezonska nihanja ☐ Klimatske spremembe
☒ 4 nova in prioriteta onesnaževala ☐ drugo (prosimo navedite)

OMEJITVE VEZANE NA DISTRIBUCIJO VODE

- ☒ 3 neprimerno omrežje (zasnova) ☒ 4 kapacitete črpališč ☒ 5 neustreznost vodohranov
☒ 4 pomanjkljivo vzdrževanje vodovodnega Sistema ☒ 2 staranje
☐ drugo, prosimo navedite:

Katere so po vašem mnenju glavne omejitve glede oskrbe s pitno vodo v bližnji prihodnosti (čez 25 let)?
(Prosimo razvrstite: od (1)- najbolj do (5) - najmanj pomembne, isti nivo je mogoče opredeliti največ dvema)

- ☒ 5 vodne izgube ☒ 4 vodne količine ☒ 2 kakovost vode ☐ Cena vode
☐ zakonski okvir in opredelitev prioritet ☐ težave s financiranjem ☐ Stanje infrastrukture
☐ kapacitete : ☐ institucij ☐ tehnične kapacitete ☐ človeški viri
☒ 3 Klimatske spremembe ☒ 4 Slabo sodelovanje ☐ Drugo (opišite):

Katere ukrepe oz. dejavnosti prepoznavate kot najbolj pomembne za izboljšanje oskrbe s pitno vodo glede na predhodno opredeljene probleme in omejitve?

- VVO
- vzdrževanje infrastrukture
- prilagoditev poslovnim spremembam

DRINKADRIA standardni vprašalnik za deležnike
WP3 kapitalizacija in trajnost

Ali menite da bi bilo mogoče navedene probleme in omejitve reševati z:

(Prosimo razvrstite: od (1)- najbolj do (5) - najmanj pomembne, isti nivo je mogoče opredeliti največ dvema)

- ☒ 1 Povezanimi politikami in programi, ki bi naslovile večino področij,
☐ 2 Ločenimi politikami in programi, ki bi naslovile večino področij,
☒ 3 Boljšim sodelovanjem med različnimi sektorji,
☒ 4 Boljšim sodelovanjem med lokalnim in državnim nivojem,
☒ 5 Več finančnimi viri,
☒ 6 Višjimi cenami vode,
☐ 7 Drugo (navedite):

Prosimo navedite tri najpomembnejše deležnike, ki jih prepoznate za izboljšanje oskrbe s pitno vodo in upravljanja z vodnimi viri in njihove naloge:

- 1) _____ naloga: _____
2) _____ naloga: _____
3) _____ naloga: _____

Katere naloge/ukrepe bi lahko vaša organizacija izvedla, da bi izboljšala oskrbo s pitno vodo in upravljanje z vodami in prispevala k njihovi trajnostni uspešnosti in učinkovitosti?

Nadzorovano podeljevanje vodnih pravic

Ali menite, da le ukrepi na državnem nivoju prispevajo k izboljšanju oskrbe s pitno vodo in varovanju virov?

☐ DA ☒ NE

Če je odgovor ne, katere institucije po vašem mnenju še imajo pomembno vlogo?

Vodovodi

Do katere mere ste seznanjeni z delom in vlogo Dvostranskih meddržavnih komisij na področju čezmejne oskrbe s pitno vodo in upravljanja z vodami?

☐ Celovito seznanjen z delom ☒ Zmerno seznanjen ☐ Pomanjkljivo seznanjen

Do katere mere ste seznanjeni z delom in vlogo lokalnih skupnosti na področju čezmejne/medobčinske oskrbe s pitno vodo in upravljanja z vodami?

☐ Celovito seznanjen z delom ☐ Zmerno seznanjen ☒ Pomanjkljivo seznanjen

DRINKADRIA standardni vprašalnik za deležnike
WP3 kapitalizacija in trajnost

Ali ste seznanjeni s pravnim okvirom (pogodbe, dogovori, memorandum, protokoli...) na podlagi katerih se izvajajo čezmejna oz. medobčinska oskrba s pitno vodo in upravljanje z vodami v vaši državi (regiji)?

☐ DA ☒ NE

Če je odgovor DA prosimo, da kratko navedete katere poznate:

Do katere mere ste seznanjeni vprašanji in omejitvami vezanimi na čezmejno oskrbo s pitno vodo in upravljanje z vodami?

☐ Celovito seznanjen ☒ Zmerno seznanjen ☐ Pomanjkljivo seznanjen
Prosimo za dodatne komentarje:

Izvajanje okvirne vodne direktive in priprava načrtov upravljanja z vodami v vaši državi je :

☐ Zaključeno ☒ V teku ☐ Se začneja ☐ Nisem seznanjen

Prosimo za dodatne komentarje:

Trenutno se izvaja, drugi NUV v pripravi

Izvajanje okvirne vodne direktive in priprava načrtov upravljanja z vodami na čezmejnih vodnih telesih je :

☐ Zaključeno ☒ V teku ☐ Se začneja ☐ Nisem seznanjen

Prosimo za dodatne komentarje:

Katere so najbolj pomembne vsebine s katerimi bi želeli biti seznanjeni/se poglobiti glede čezmejne/regionalne oskrbe s pitno vodo in upravljanja z vodami.

kolikinsko slonji vodnih virov

Ali je uvodna delavnica projekta DRINKADRIA izpolnila vaša pričakovanja?

☐ DA ☐ NE ☒ delno se ni zadovoljila :-)

Dodatni komentarji – predlogi za izboljšanje :

VPRAŠALNIK O ČEZMEJNIH OZ. MEOBČINSKIH SISTEMIH OSKRBE S PITNO VODO IN UPRAVLJANJU Z VODNIMI VIRI

Prenos vsebin projekta v prakso in trajni učinki projekta so pomembna vsebina projekta, ki postavlja okvir za izmenjavo informacij o pomenu čezmejne oskrbe s pitno vodo med različnimi deležniki.

Informacije, ki jih boste podali preko tega vprašalnika bodo osnova za nadaljnje delo in podoba pomembno vplivale na uspešno izvajanje projekta DRINKADRIA.

Ime:	
Priimek:	
Organizacija (vsebin ni potrebno izpolniti)	
Glavno področje dela vase organizacije:	
<input checked="" type="checkbox"/> Izvajalec javne službe oskrbe s pitno vodo <input type="checkbox"/> Uprava: <input type="checkbox"/> lokalna <input type="checkbox"/> regionalna <input type="checkbox"/> državna <input type="checkbox"/> Raziskovalna organizacija <input type="checkbox"/> Združenje <input type="checkbox"/> Drugo (prosimo navedite):	
Glavno področje dela:	
<input checked="" type="checkbox"/> oskrba s pitno vodo <input type="checkbox"/> varovanje voda <input type="checkbox"/> izobraževanje/raziskave <input type="checkbox"/> mednarodno sodelovanje <input type="checkbox"/> finančni vidiki/pravo <input type="checkbox"/> Drugo (prosimo navedite):	
Kateri prostorski okvir najbolj opredeljuje vase dejavnosti in naloge? (Prosimo uprabite odstotno oceno področja tako, da je vsota 100%)	
Lokalno <u>100</u> % regionalno _ % državno _ % mednarodno _ % drugo (navedite): ____, _ %	
Kateri problem na področju oskrbe s pitno vodo trenutno prepoznavate kot najbolj pomembne? (Prosimo razvrstite: 1 najbolj do, 5 najmanj pomembne, isti nivo je mogoče opredeliti največ dvema)	
<input checked="" type="checkbox"/> vodne izgube <input checked="" type="checkbox"/> vodne količine <input checked="" type="checkbox"/> kakovost vode <input checked="" type="checkbox"/> Cena vode <input checked="" type="checkbox"/> zakonski okvir in opredelitev prioritet <input checked="" type="checkbox"/> težave s financiranjem <input checked="" type="checkbox"/> Stanje infrastrukture <input checked="" type="checkbox"/> kapacitete : <input type="checkbox"/> institucij <input type="checkbox"/> tehnične kapacitete <input type="checkbox"/> človeški viri <input type="checkbox"/> Klimatske spremembe <input type="checkbox"/> Slabo sodelovanje <input type="checkbox"/> Drugo (opišite):	

DRINKADRIA standardni vprašalnik za deležnike
WP3 kapitalizacija in trajnost

Prosimo opredelite prioritete glede prej navedenih problemskih sklopov:
(Prosimo razvrstite: od (1)- najbolj do (5) - najmanj pomembne, isti nivo je mogoče opredeliti največ dvema)

VODNE IZGUBE

- 3 ☐ nedovoljeni odvzemi 3 ☐ napake pri meritvah porabe vode ☒ dejanske izgube na distribuciji
☒ izgube na priključkih 1 ☐ izgube na objektih (npr. Prelivanje vodohramov)
☐ druge (navedite):

VODNE KOLIČINE

- ☐ povečanje rabe vode 1 ☐ sezonska nihanja porabe 2 ☐ kapacitete za shranjevanje vode
☐ sprememba rabe zemljišč ☐ visoka poraba dejavnosti (kmetijstvo, industrija), etc)
☐ Klimatske spremembe ☐ padec porabe
☐ drugo (prosimo navedite):

KAKOVOST VODE

- ☐ točkovni pritiski onesnaženja ☐ netočkovni pritiski onesnaženja 1 ☐ režim varovanja vodnih virov
☐ spremembe v rabi zemljišč ☐ sezonska nihanja ☐ Klimatske spremembe
☐ nova in prioriteta onesnaževala ☐ drugo (prosimo navedite)

OMEJITVE VEZANE NA DISTRIBUCIJO VODE

- 2 ☐ neprimerno omrežje (zasnova) 3 ☐ kapacitete črpališč 1 ☐ neustreznost vodohranov
2 ☐ pomanjkljivo vzdrževanje vodovodnega Sistema 1 ☐ staranje
☐ drugo, prosimo navedite:

Katere so po vašem mnenju glavne omejitve glede oskrbe s pitno vodo v bližnji prihodnosti (čez 25 let)?
(Prosimo razvrstite: od (1)- najbolj do (5) - najmanj pomembne, isti nivo je mogoče opredeliti največ dvema)

- 2 ☐ vodne izgube 2 ☐ vodne količine 1 ☐ kakovost vode 3 ☐ Cena vode
5 ☐ zakonski okvir in opredelitev prioritete 4 ☐ težave s financiranjem 1 ☐ Stanje infrastrukture
☐ kapacitete : ☐ institucij ☐ tehnične kapacitete ☐ človeški viri
☐ Klimatske spremembe ☐ Slabo sodelovanje ☐ Drugo (opišite):

Katere ukrepe oz. dejavnosti prepoznavate kot najbolj pomembne za izboljšanje oskrbe s pitno vodo glede na predhodno opredeljene probleme in omejitve?

DRINKADRIA standardni vprašalnik za deležnike
WP3 kapitalizacija in trajnost

Ali menite da bi bilo mogoče navedene probleme in omejitve reševati z:

(Prosimo razvrstite: od (1)- najbolj do (5) - najmanj pomembne, isti nivo je mogoče opredeliti največ dvema)

- 3 ☐ Povezanimi politikami in programi, ki bi naslovile večino področij,
4 ☐ Ločenimi politikami in programi, ki bi naslovile večino področij,
1 ☐ Boljšim sodelovanjem med različnimi sektorji,
2 ☐ Boljšim sodelovanjem med lokalnim in državnim nivojem,
1 ☐ Več finančnimi viri,
1 ☐ Višjimi cenami vode,
1 ☐ Drugo (navedite):

Prosimo navedite tri najpomembnejše deležnike, ki jih prepoznate za izboljšanje oskrbe s pitno vodo in upravljanja z vodnimi viri in njihove naloge:

- 1) _____ naloga: _____
2) _____ naloga: _____
3) _____ naloga: _____

Katere naloge/ukrepe bi lahko vaša organizacija izvedla, da bi izboljšala oskrbo s pitno vodo in upravljanje z vodami in prispevala k njihovi trajnostni uspešnosti in učinkovitosti?

Ali menite, da le ukrepi na državnem nivoju prispevajo k izboljšanju oskrbe s pitno vodo in varovanju virov?

☐ DA ☒ NE

Če je odgovor ne, katere institucije po vašem mnenju še imajo pomembno vlogo?

Do katere mere ste seznanjeni z delom in vlogo Dvostranskih meddržavnih komisij na področju čezmejne oskrbe s pitno vodo in upravljanja z vodami?

☐ Celovito seznanjen z delom ☐ Zmerno seznanjen ☒ Pomanjkljivo seznanjen

Do katere mere ste seznanjeni z delom in vlogo lokalnih skupnosti na področju čezmejne/medobčinske oskrbe s pitno vodo in upravljanja z vodami?

☐ Celovito seznanjen z delom ☐ Zmerno seznanjen ☒ Pomanjkljivo seznanjen

DRINKADRIA standardni vprašalnik za deležnike
WP3 kapitalizacija in trajnost

Ali ste seznanjeni s pravnim okvirom (pogodbe, dogovori, memorandum, protokoli...) na podlagi katerih se izvajajo čezmejna oz. medobčinska oskrba s pitno vodo in upravljanje z vodami v vaši državi (regiji)?

☐ DA ☒ NE

Če je odgovor DA prosimo, da kratko navedete katere poznate:

Do katere mere ste seznanjeni vprašanji in omejitvami vezanimi na čezmejno oskrbo s pitno vodo in upravljanje z vodami?

☐ Celovito seznanjen ☒ Zmerno seznanjen ☐ Pomanjkljivo seznanjen
Prosimo za dodatne komentarje:

Izvajanje okvirne vodne direktive in priprava načrtov upravljanja z vodami v vaši državi je :

☐ Zaključeno ☐ V teku ☒ Se začena ☒ Nisem seznanjen

Prosimo za dodatne komentarje:

Izvajanje okvirne vodne direktive in priprava načrtov upravljanja z vodami na čezmejnih vodnih telesih je :

☐ Zaključeno ☐ V teku ☐ Se začena ☒ Nisem seznanjen

Prosimo za dodatne komentarje:

Katere so najbolj pomembne vsebine s katerimi bi želeli biti seznanjeni/se poglobiti glede čezmejne/regionalne oskrbe s pitno vodo in upravljanja z vodami.

Ali je uvodna delavnica projekta DRINKADRIA izpolnila vaša pričakovanja?

☐ DA ☐ NE ☒ delno

Dodatni komentarji – predlogi za izboljšanje :

Networking for Drinking Water Supply in Adriatic Region

VPRAŠALNIK O ČEZMEJNIH OZ. MEOBČINSKIH SISTEMIH OSKRBE S PITNO VODO IN UPRAVLJANJU Z VODNIMI VIRI

Prenos vsebin projekta v prakso in trajni učinki projekta so pomembna vsebina projekta, ki postavlja okvir za izmenjavo informacij o pomenu čezmejne oskrbe s pitno vodo med različnimi deležniki.

Informacije, ki jih boste podali preko tega vprašalnika bodo osnova za nadaljnje delo in podoba pomembno vplivale na uspešno izvajanje projekta DRINKADRIA.

Ime:	
Priimek:	
Organizacija (vsebin ni potrebno izpolniti)	

Glavno področje dela vase organizacije:

☐ Izvajalec javne službe oskrbe s pitno vodo
 ☐ Uprava: ☐ lokalna ☐ regionalna ☒ državna
☐ Raziskovalna organizacija ☐ Združenje ☐ Drugo (prosimo navedite):

Glavno področje dela:

☒ oskrba s pitno vodo
 ☐ varovanje voda ☐ izobraževanje/raziskave
☐ mednarodno sodelovanje ☐ finančni vidiki/pravo ☐ Drugo (prosimo navedite):

Kateri prostorski okvir najbolj opredeljuje vase dejavnosti in naloge?
(Prosimo uporabite odstotno oceno področja tako, da je vsota 100%)

Lokalno __ % regionalno __ % državno 100 % mednarodno __ % drugo (navedite): ____, __ %

Kateri problem na področju oskrbe s pitno vodo trenutno prepoznavate kot najbolj pomembne?
(Prosimo razvrstite: 1 najbolj do, 5 najmanj pomembne, isti nivo je mogoče opredeliti največ dvema)

☐ vodne izgube
 ☐ vodne količine
 ☐ kakovost vode
 ☐ Cena vode
☐ zakonski okvir in opredelitev prioritet
 ☐ težave s financiranjem
 ☐ Stanje infrastrukture
☐ kapacitete : ☐ institucij ☐ tehnične kapacitete ☐ človeški viri
☐ Klimatske spremembe ☐ Slabo sodelovanje ☐ Drugo (opišite):

DRINKADRIA standardni vprašalnik za deležnike
WP3 kapitalizacija in trajnost

Prosimo opredelite prioritete glede prej navedenih problemskih sklopov:
(Prosimo razvrstite: od (1)- najbolj do (5) - najmanj pomembne, isti nivo je mogoče opredeliti največ dvema)

VODNE IZGUBE

- | | | |
|--|--|--|
| <input type="checkbox"/> nedovoljeni odvzemi | <input type="checkbox"/> napake pri meritvah porabe vode | <input type="checkbox"/> dejanske izgube na distribuciji |
| <input type="checkbox"/> izgube na priključkih | <input type="checkbox"/> izgube na objektih (npr. Prelivanje vodohramov) | |
| <input type="checkbox"/> druge (navedite): | | |

VODNE KOLIČINE

- | | | |
|--|--|--|
| <input type="checkbox"/> povečanje rabe vode | <input type="checkbox"/> sezonska nihanja porabe | <input type="checkbox"/> kapacitete za shranjevanje vode |
| <input type="checkbox"/> sprememba rabe zemljišč | <input type="checkbox"/> visoka poraba dejavnosti (kmetijstvo, industrija), etc) | |
| <input type="checkbox"/> Klimatske spremembe | <input type="checkbox"/> padec porabe | |
| <input type="checkbox"/> drugo (prosimo navedite): | | |

KAKOVOST VODE

- | | | |
|--|--|---|
| <input type="checkbox"/> točkovni pritiski onesnaženja | <input type="checkbox"/> netočkovni pritiski onesnaženja | <input type="checkbox"/> režim varovanja vodnih virov |
| <input type="checkbox"/> spremembe v rabi zemljišč | <input type="checkbox"/> sezonska nihanja | <input type="checkbox"/> Klimatske spremembe |
| <input type="checkbox"/> nova in prioriteta onesnaževala <input type="checkbox"/> drugo (prosimo navedite) | | |

OMEJITVE VEZANE NA DISTRIBUCIJO VODE

- | | | |
|---|--|--|
| <input type="checkbox"/> neprimerno omrežje (zasnova) | <input type="checkbox"/> kapacitete črpalnic | <input type="checkbox"/> neustreznost vodohranov |
| <input type="checkbox"/> pomanjkljivo vzdrževanje vodovodnega Sistema | <input type="checkbox"/> staranje | |
| <input type="checkbox"/> drugo, prosimo navedite: | | |

Katere so po vašem mnenju glavne omejitve glede oskrbe s pitno vodo v bližnji prihodnosti (čez 25 let)?
(Prosimo razvrstite: od (1)- najbolj do (5) - najmanj pomembne, isti nivo je mogoče opredeliti največ dvema)

- | | | | |
|---|---|--|--|
| <input type="checkbox"/> vodne izgube | <input type="checkbox"/> vodne količine | <input type="checkbox"/> kakovost vode | <input type="checkbox"/> Cena vode |
| <input type="checkbox"/> zakonski okvir in opredelitev prioritete | <input type="checkbox"/> težave s financiranjem | <input type="checkbox"/> Stanje infrastrukture | |
| <input type="checkbox"/> kapacitete : | <input type="checkbox"/> institucij | <input type="checkbox"/> tehnične kapacitete | <input type="checkbox"/> človeški viri |
| <input type="checkbox"/> Klimatske spremembe <input type="checkbox"/> Slabo sodelovanje <input type="checkbox"/> Drugo (opišite): | | | |

Katere ukrepe oz. dejavnosti prepoznavate kot najbolj pomembne za izboljšanje oskrbe s pitno vodo glede na predhodno opredeljene probleme in omejitve?

DRINKADRIA standardni vprašalnik za deležnike
WP3 kapitalizacija in trajnost

Ali menite da bi bilo mogoče navedene probleme in omejitve reševati z:

(Prosimo razvrstite: od (1)- najbolj do (5) - najmanj pomembne, isti nivo je mogoče opredeliti največ dvema)

- ☐ Povezanimi politikami in programi, ki bi naslovile večino področij,
- ☐ Ločenimi politikami in programi, ki bi naslovile večino področij,
- ☐ Boljšim sodelovanjem med različnimi sektorji,
- ☐ Boljšim sodelovanjem med lokalnim in državnim nivojem,
- ☐ Več finančnimi viri,
- ☐ Višjimi cenami vode,
- ☐ Drugo (navedite):

Prosimo navedite tri najpomembnejše deležnike, ki jih prepoznavate za izboljšanje oskrbe s pitno vodo in upravljanja z vodnimi viri in njihove naloge:

- 1) _____ naloga: _____
- 2) _____ naloga: _____
- 3) _____ naloga: _____

Katere naloge/ukrepe bi lahko vaša organizacija izvedla, da bi izboljšala oskrbo s pitno vodo in upravljanje z vodami in prispevala k njihovi trajnostni uspešnosti in učinkovitosti?

Ali menite, da le ukrepi na državnem nivoju prispevajo k izboljšanju oskrbe s pitno vodo in varovanju virov?

☐ DA ☐ NE

Če je odgovor ne, katere institucije po vašem mnenju še imajo pomembno vlogo?

Do katere mere ste seznanjeni z delom in vlogo Dvostranskih meddržavnih komisij na področju čezmejne oskrbe s pitno vodo in upravljanja z vodami?

☐ Celovito seznanjen z delom ☐ Zmerno seznanjen ☐ Pomanjkljivo seznanjen

Do katere mere ste seznanjeni z delom in vlogo lokalnih skupnosti na področju čezmejne/medobčinske oskrbe s pitno vodo in upravljanja z vodami?

☐ Celovito seznanjen z delom ☐ Zmerno seznanjen ☐ Pomanjkljivo seznanjen

DRINKADRIA standardni vprašalnik za deležnike
WP3 kapitalizacija in trajnost

Ali ste seznanjeni s pravnim okvirom (pogodbe, dogovori, memorandum, protokoli...) na podlagi katerih se izvajajo čezmejna oz. medobčinska oskrba s pitno vodo in upravljanje z vodami v vaši državi (regiji)?

☐ DA ☐ NE

Če je odgovor DA prosimo, da kratko navedete katere poznate:

Do katere mere ste seznanjeni vprašanji in omejitvami vezanimi na čezmejno oskrbo s pitno vodo in upravljanje z vodami?

☐ Celovito seznanjen ☐ Zmerno seznanjen ☐ Pomanjkljivo seznanjen

Prosimo za dodatne komentarje:

Izvajanje okvirne vodne direktive in priprava načrtov upravljanja z vodami v vaši državi je :

☐ Zaključeno ☐ V teku ☐ Se začena ☐ Nisem seznanjen

Prosimo za dodatne komentarje:

Izvajanje okvirne vodne direktive in priprava načrtov upravljanja z vodami na čezmejnih vodnih telesih je :

☐ Zaključeno ☐ V teku ☐ Se začena ☐ Nisem seznanjen

Prosimo za dodatne komentarje:

Katere so najbolj pomembne vsebine s katerimi bi želeli biti seznanjeni/se poglobiti glede čezmejne/regionalne oskrbe s pitno vodo in upravljanja z vodami.

Ali je uvodna delavnica projekta DRINKADRIA izpolnila vaša pričakovanja?

☒ DA ☐ NE ☐ delno

Dodatni komentarji – predlogi za izboljšanje :

Networking for Drinking Water Supply in Adriatic Region

VPRAŠALNIK O ČEZMEJNIH OZ. MEOBČINSKIH SISTEMIH OSKRBE S PITNO VODO IN UPRAVLJANJU Z VODNIMI VIRI

Prenos vsebin projekta v prakso in trajni učinki projekta so pomembna vsebina projekta, ki postavlja okvir za izmenjavo informacij o pomenu čezmejne oskrbe s pitno vodo med različnimi deležniki.

Informacije, ki jih boste podali preko tega vprašalnika bodo osnova za nadaljnje delo in podoba pomembno vplivale na uspešno izvajanje projekta DRINKADRIA.

Ime:	ISTON
Priimek:	FAJAN
Organizacija (vsebin ni potrebno izpolniti)	Krajli vodovod Slovenije d.o.o.
Glavno področje dela vase organizacije: <input checked="" type="checkbox"/> Izvajalec javne službe oskrbe s pitno vodo <input type="checkbox"/> Uprava: <input type="checkbox"/> lokalna <input type="checkbox"/> regionalna <input type="checkbox"/> državna <input type="checkbox"/> Raziskovalna organizacija <input type="checkbox"/> Združenje <input type="checkbox"/> Drugo (prosimo navedite):	
Glavno področje dela: <input checked="" type="checkbox"/> oskrba s pitno vodo <input type="checkbox"/> varovanje voda <input type="checkbox"/> izobraževanje/raziskave <input type="checkbox"/> mednarodno sodelovanje <input type="checkbox"/> finančni vidiki/pravo <input type="checkbox"/> Drugo (prosimo navedite):	
Kateri prostorski okvir najbolj opredeljuje vase dejavnosti in naloge? (Prosimo uprabite odstotno oceno področja tako, da je vsota 100%) 100% <u>100</u> % regionalno_ % državno_ % mednarodno_ % drugo (navedite): _____, _ %	
Katere problem na področju oskrbe s pitno vodo trenutno prepoznavate kot najbolj pomembne? (Prosimo razvrstite: 1 najbolj do, 5 najmanj pomembne, isti nivo je mogoče opredeliti največ dvema) <input checked="" type="checkbox"/> vodne izgube <input type="checkbox"/> vodne količine <input type="checkbox"/> kakovost vode <input type="checkbox"/> Cena vode <input type="checkbox"/> zakonski okvir in opredelitev prioritet <input type="checkbox"/> težave s financiranjem <input checked="" type="checkbox"/> Stanje infrastrukture <input type="checkbox"/> kapacitete : <input type="checkbox"/> institucij <input type="checkbox"/> tehnične kapacitete <input type="checkbox"/> človeški viri <input type="checkbox"/> Klimatske spremembe <input type="checkbox"/> Slabo sodelovanje <input type="checkbox"/> Drugo (opišite):	

DRINKADRIA standardni vprašalnik za deležnike
WP3 kapitalizacija in trajnost

Prosimo opredelite prioritete glede prej navedenih problemskih sklopov:
(Prosimo razvrstite: od (1)- najbolj do (5) - najmanj pomembne, isti nivo je mogoče opredeliti največ dvema)

VODNE IZGUBE

- ☐ nedovoljeni odvzemi ☐ napake pri meritvah porabe vode ☒ dejanske izgube na distribuciji
☐ izgube na priključkih ☐ izgube na objektih (npr. Prelivanje vodohramov)
☐ druge (navedite):

VODNE KOLIČINE

- ☐ povečanje rabe vode ☐ sezonska nihanja porabe ☐ kapacitete za shranjevanje vode
☐ sprememba rabe zemljišč ☐ visoka poraba dejavnosti (kmetijstvo, industrija), etc)
☐ Klimatske spremembe ☐ padec porabe
☐ drugo (prosimo navedite):

KAKOVOST VODE

- ☐ točkovni pritiski onesnaženja ☐ netočkovni pritiski onesnaženja ☐ režim varovanja vodnih virov
☐ spremembe v rabi zemljišč ☐ sezonska nihanja ☐ Klimatske spremembe
☐ nova in prioriteta onesnaževala ☐ drugo (prosimo navedite)

OMEJITVE VEZANE NA DISTRIBUCIJO VODE

- ☐ neprimerno omrežje (zasnova) ☐ kapacitete črpališč ☐ neustreznost vodohranov
☒ pomanjkljivo vzdrževanje vodovodnega Sistema ☒ staranje
☐ drugo, prosimo navedite:

Katere so po vašem mnenju glavne omejitve glede oskrbe s pitno vodo v bližnji prihodnosti (čez 25 let)?
(Prosimo razvrstite: od (1)- najbolj do (5) - najmanj pomembne, isti nivo je mogoče opredeliti največ dvema)

- ☐ vodne izgube ☒ vodne količine ☒ kakovost vode ☐ Cena vode
☐ zakonski okvir in opredelitev prioritete ☒ težave s financiranjem ☐ Stanje infrastrukture
☐ kapacitete : ☐ institucij ☐ tehnične kapacitete ☐ človeški viri
☐ Klimatske spremembe ☐ Slabo sodelovanje ☐ Drugo (opišite):

Katere ukrepe oz. dejavnosti prepoznavate kot najbolj pomembne za izboljšanje oskrbe s pitno vodo glede na predhodno opredeljene probleme in omejitve?

sodelovanje, financiranje

DRINKADRIA standardni vprašalnik za deležnike
WP3 kapitalizacija in trajnost

Ali menite da bi bilo mogoče navedene probleme in omejitve reševati z:

(Prosimo razvrstite: od (1)- najbolj do (5) - najmanj pomembne, isti nivo je mogoče opredeliti največ dvema)

- ☐ Povezanimi politikami in programi, ki bi naslovile večino področij,
☐ Ločenimi politikami in programi, ki bi naslovile večino področij,
☒ Boljšim sodelovanjem med različnimi sektorji,
☒ Boljšim sodelovanjem med lokalnim in državnim nivojem,
☒ Več finančnimi viri,
☐ Višjimi cenami vode,
☐ Drugo (navedite):

Prosimo navedite tri najpomembnejše deležnike, ki jih prepoznavate za izboljšanje oskrbe s pitno vodo in upravljanja z vodnimi viri in njihove naloge:

- 1) DRŽAVA naloga: posredovati finančne
2) lokalne oblasti naloga: izboljšanje
3) _____ naloga: _____

Katere naloge/ukrepe bi lahko vaša organizacija izvedla, da bi izboljšala oskrbo s pitno vodo in upravljanje z vodami in prispevala k njihovi trajnostni uspešnosti in učinkovitosti?

posredovati vstopni, presilni

Ali menite, da le ukrepi na državnem nivoju prispevajo k izboljšanju oskrbe s pitno vodo in varovanju virov?

☒ DA ☐ NE

Če je odgovor ne, katere institucije po vašem mnenju še imajo pomembno vlogo?

Do katere mere ste seznanjeni z delom in vlogo Dvostranskih meddržavnih komisij na področju čezmejne oskrbe s pitno vodo in upravljanja z vodami?

☐ Celovito seznanjen z delom ☒ Zmerno seznanjen ☐ Pomanjkljivo seznanjen

Do katere mere ste seznanjeni z delom in vlogo lokalnih skupnosti na področju čezmejne/medobčinske oskrbe s pitno vodo in upravljanja z vodami?

☒ Celovito seznanjen z delom ☐ Zmerno seznanjen ☐ Pomanjkljivo seznanjen

DRINKADRIA standardni vprašalnik za deležnike
WP3 kapitalizacija in trajnost

Ali ste seznanjeni s pravnim okvirom (pogodbe, dogovori, memorandum, protokoli...) na podlagi katerih se izvajajo čezmejna oz. medobčinska oskrba s pitno vodo in upravljanje z vodami v vaši državi (regiji)?

☒ DA ☐ NE

Če je odgovor DA prosimo, da kratko navedete katere poznate:

Do katere mere ste seznanjeni vprašanji in omejitvami vezanimi na čezmejno oskrbo s pitno vodo in upravljanje z vodami?

☐ Celovito seznanjen ☒ Zmerno seznanjen ☐ Pomanjkljivo seznanjen

Prosimo za dodatne komentarje:

Izvajanje okvirne vodne direktive in priprava načrtov upravljanja z vodami v vaši državi je :

☐ Zaključeno ☒ V teku ☐ Se začneja ☐ Nisem seznanjen

Prosimo za dodatne komentarje:

Izvajanje okvirne vodne direktive in priprava načrtov upravljanja z vodami na čezmejnih vodnih telesih je :

☐ Zaključeno ☒ V teku ☐ Se začneja ☐ Nisem seznanjen

Prosimo za dodatne komentarje:

Katere so najbolj pomembne vsebine s katerimi bi želeli biti seznanjeni/se poglobiti glede čezmejne/regionalne oskrbe s pitno vodo in upravljanja z vodami.

Ali je uvodna delavnica projekta DRINKADRIA izpolnila vaša pričakovanja?

☒ DA ☐ NE ☐ delno

Dodatni komentarji – predlogi za izboljšanje :



Let's grow up together



The project is co-funded by the European Union,
Instrument for Pre-Accession Assistance