

3rd Annual Meeting & Workshop

“Tools and guidance for assessing resource and environmental cost in the WFD”

29-31 March 2016
ECRAN 61725

Task 2.3.2 “ Assistance in the development of transboundary river
basin management plans” -
approach and outcomes



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Structure of the presentation

- Activities
- Approaches
- Organisation of work
- Results
- Screening templates
- Annexes
- Case studies



Water Management Working Group

Activity 2.3: Water Management

- Task 2.3.1: Annual Meeting
- **Task 2.3.2: Assistance in the development of transboundary river basin management plans**
- Task 2.3.3: Economic analysis in accordance with the WFD (cost recovery and cost-effectiveness considerations), including innovative systems of waste water treatment
- Task 2.3.4: WFD and Marine Strategy Framework Directive – objectives, synergies and approaches



Task 2.3.2: Assistance in the development of transboundary RBMPs

Scope: provision of practical assistance to the beneficiary countries in the development of the RBMP and the Program of Measures in Drina River Basin, selected as a pilot basin.

In recognition of the potential benefits through **replicability across the whole targeted ECRAN project beneficiaries**, a number of **Case Studies** from all beneficiary countries are discussed, and lessons learned to date, best practices and cross - cutting recommendations summarised.



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Subtask 2.3.2.1: Assistance for the preparation of the Program of Measures (PoM) in Drina RB

Approaches

- The development of RBMP specific topic will last all three years of the project 2014-2016.
- **A transboundary pilot river basin has been selected – Drina RB.**
 - a 4-phase methodology has been prepared for developing the PoM as part of the RBM Plan in Drina RB (phase 4 – 2016)
 - screening templates for a large number of topics
 - a Report is prepared including the Drina RBMP, the PoM and case studies from all beneficiaries (deadline end July 2016)
- **Engage all beneficiaries** in the discussions of the methodologies and templates
- Examine **issues for integration at different levels** (DRB, Sava, Drina) **across policy domains** (WFD, UWWTD, ND, FD, EQS, MSFD,....)
- Present **lessons learned** from MS experiences to exemplify specific items
- **Specific topics requiring assistance** to facilitate the production of the PoM were identified and presented for organising the training.



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Organization of work (1)

- 4-phase methodology: **living guidance document** to assist the experts involved in the WFD implementation.
- It aims to offer clear evidence on the topics of training the experts in the beneficiary countries, based on the logical flow of preparatory process of the PoM in the selected pilot basin: Drina River Basin, and making use of inputs from Drina RB countries through completed screening templates
- The guidance document is **updated** along the ECRAN project implementation, based on the results of specific assessments (SWMIs, visions, management objectives, economic analysis and financing of the PoM, synergies with other EU policies and directives (MFSD, FD, EIAD, SEAD...)



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Organization of work (2)

Annexes and screening templates

- 1) **Transboundary issues:** template for data collection for Drina countries
- 2) **SWMIs** basic concept and screening template for Drina countries
- 3) **Linkages SWMIs and PoM:** background document for all ECRAN project beneficiaries
- 4) **Monitoring programs:** template for data collection from all ECRAN beneficiaries countries



Organization of work (3)

Annexes and screening templates

- 1) **SWMIs** prioritization
- 2) **Visions** identification and agreement
- 3) **Management objectives** identification
- 4) **Pressures assessment** making use of EC reporting schemes
- 5) **Impact assessment**
- 6) **Economic analysis**
- 7) **Financing** of measures
- 8) **WFD Environmental objectives**



PoM content

Drina Joint Program of Measures

- Transboundary issues
- Selection of Significant Water Management Issues
- Pressures and impact assessment at the Drina RB level
- Assessment of interlinkages between specific topics and their integration
- Definition of visions for each SWMI
- Description of management objectives for each SWMI/vision
- Compilation of measures in the PoM
- Economic analysis
- Financing
- Assessment of anticipated effects to achieve the WFD objectives based on the compiled PoM, making use of scenarios of future developments.



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Proposed approach for Drina RB

- Selection of the SWMIs
- Priority setting
- Definition of long term visions for each SWMI
- Description of the environmental management objectives
- Identification of actions and measures addressing each SWMI - PoM
- Establish coordination requirements for implementing the selected visions
- Ensure monitoring and evaluation of visions implementation
- Assess the anticipated effects for meeting the WFD environmental objectives.

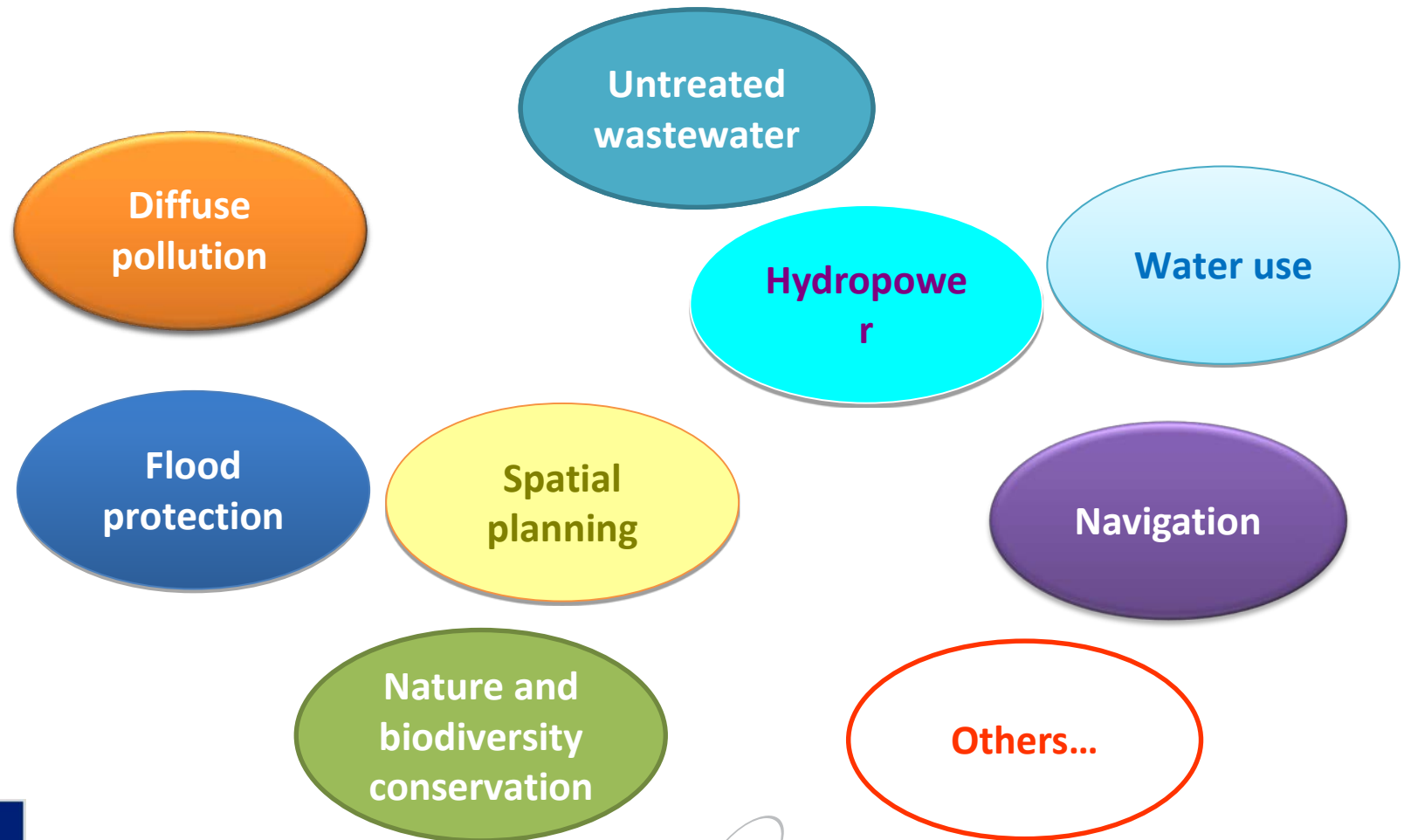


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The significant water management issues



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Screening templates (1)

1. Please list the **top 5 significant water management issues** facing Drina RB Against each issue write a priority score of 1 to 5 (with 1 being the highest priority and 5 the lowest).

Describe in brief the issue and priority of concern, for instance, whether it is a specific policy issue such as absence of water abstraction controls, nitrate/phosphorus controls or a hydromorphological alteration, or a general concern, for example, lack of co-ordination within Government. State whether the problem is at river basin or community level.

No	Issue	Priority



Screening templates (2)

2. Do you think the whole Drina RB faces the same SWMIs, or are there significant differences, between catchments, sub-units, or between urban/rural areas, for example?

3. How should these issues be addressed?

4. Are there barriers that prevent these issues from being addressed?

Please provide examples of possible solutions, such as increase community (local) participation, increased education and media coverage including making the public more aware of the real cost of providing drinking water and connection to sewer, suggestions as to reorganisation of existing structures for more effective delivery of services.

- Barriers
- Possible solutions

5. Please list what you consider to be other SWMIs in the Drina RB.



Results of Drina RB SWMIs screening (1)

Prioritized identified SWMIs

1. **Organic pollution:** insufficient sewage and WWTPs coverage
2. **Flooding**
3. **Hydromorphological alterations:** hydropower energy facilities
4. **Nutrient pollution:** diffuse pollution from agriculture
5. **Priority and hazardous substances:** industrial emissions

Additional SWMIs

6. Sand and gravel extraction
7. Damp site used as municipal landfill



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Results of Drina RB SWMIs screening (2)

How should these issues be addressed?

1. Increase of the sewage coverage and building of WWTPs.
2. Development of sustainable flood management
3. Implementation of financial water management tools (water price, PPP)
4. Improvement of Water polluter's cadastre
5. Building of fish paths
6. Introduction of BMP in agriculture and nutrient management (soil testing, fertilizer application)



Results of Drina RB SWMIs screening (3)

Barriers

Lack of resources

Lack of local experts

Lack of awareness of importance of water related issues

Lack of relevant data

Possible solutions

EU funding for water related projects

Public participation in educational programmes and workshops

Better collaboration of institutions in charged for water related issues.



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Challenges of selecting the Drina RB visions

Different priorities on
local, regional,
national and
international level

Building the long term Visions - around river basin priorities: environmental protection, sustainable development, pollution reduction, nature conservation, risk mitigation

Implementing
challenges

Vision need to be translated into **specific and measurable management objectives and measures** that are achievable with the available resources and time frame. **The frame is given by the RBMP!**

Barriers to
implementation

Political: lack of political commitment
Technical - lacks integration between sectors, insufficient information and monitoring
Institutional – responsibilities, mandates – not clearly defined, insufficient capacity building.
Timeline: lacking long term vision.



Drina basin wide visions

- The Drina basin wide vision for **organic pollution** is zero emission of untreated wastewaters into the waters of the Sava and Danube River Basins.
- The Drina basin wide vision for **flooding** is no risk or threat to the population and economy due to flooding in the Drina River Basin.
- The Drina basin wide vision for **hydromorphological alterations** is the balanced management of past, ongoing and future structural changes of the riverine environment, so that the aquatic ecosystem in the Drina and the entire Danube RB functions in a holistic way and is represented with all native species.
- The Drina basin wide vision for **nutrients pollution** is the balanced management of nutrient emissions via point and diffuse sources in the entire Drina RB that neither the waters of the Danube RB nor the Black Sea are threatened or impacted by eutrophication.
- The Drina basin wide vision for **hazardous substances pollution** is no risk or threat to human health and the aquatic ecosystem of the waters in the Drina, Sava, Danube and Black Sea Basins.



Basin Wide Management Objectives – Organic Pollution

The vision will be achieved through the implementation of the following management objectives:

Drina RB countries

- Specification of number of wastewater collecting systems (connected to respective WWTPs), which are planned to be constructed by 2021.
- Specification of number of municipal and industrial wastewater treatment plants, which are planned to be constructed by 2021 including
- Specification of treatment level (secondary or tertiary treatment)
- Specification of emission reduction targets



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Basin Wide Management Objectives – Flooding

The vision will be achieved through the implementation of the following management objectives:

Drina RB countries

- Performing the Preliminary Flood Risk Assessment for the Drina RB in order to identify areas of existing or foreseeable future potentially significant flood risk.
- Preparation of the flood hazard maps and flood risk maps to identify areas prone to flooding during events with a high, medium and low probability of occurrence, including those where occurrences of floods would be considered an extreme event.
- Development of the Drina catchment-based Flood Risk Management Plans (FRMPs) focusing on prevention, protection and preparedness, as well as setting objectives for managing the flood risk and setting out a prioritised set of measures for achieving those objectives
- Coordinate with the WFD implementation



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Suggestions for environmental objectives for Drina RB

- Avoidance or reduction of water pollution
- Protection and improvement of the sustainable use of groundwater with respect to its quantity and quality
- Control of the use of the pesticide
- Ensure protection of ecosystem habitats
- Ensure sustainable water use for hydropower.



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Case studies- finalised

Case studies have been prepared by all ECRAN beneficiary countries covering the following topics:

- Transboundary issues
- Pressures assessment
- Significant Water Management Issues
- Reporting on the agglomerations
- Agricultural measures
- Supplementary measures
- WFD implementation in the Candidates Countries
- Cost recovery
- Payments for environmental services



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Case studies – to be prepared

Case studies will be finalized in 2016, by all ECRAN beneficiary countries covering the following topics:

- Environmental cost
- Resource cost
- Water pricing
- Affordability
- Risk of failure to achieve WFD objectives
- Prioritisation of measures
- Indicators.



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Annexes and screening templates

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- Monitoring programs: template for data collection from all ECRAN beneficiaries countries
- SWMIs prioritization
- Visions identification and agreement
- Management objectives identification
- Pressures assessment making use of EC reporting schemes
- Impact assessment
- Economic analysis
- Financing of measures
- WFD Environmental objectives



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Thank you!



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