



РЕПУБЛИКА СРБИЈА
Министарство пољопривреде и
заштите животне средине
REPUBLIC OF SERBIA
Ministry of Agriculture and
Environmental Protection



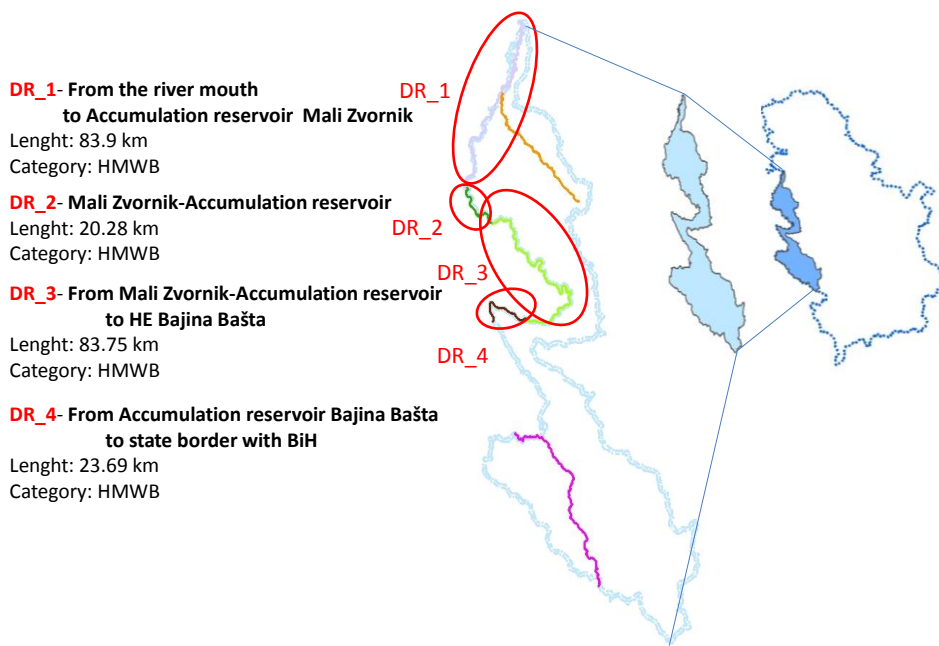
Агенција за заштиту животне средине



E(nvironmental)and C(limat) R(egional) A(ccession) N(etwork)

Regional Workshop

15 - 17 February 2016,
Podgorica, Montenegro



Status of the Water Bodies on the Drina River

Characteristics and location	TYPE	Aimed class	Biological elements					Phys. Chem. Param.			Total physico chemical paramet.	Specific pollutants		Total ecological status	Confidence level	Class of environmental potential	Chemical status	
			Fish	macrophytes Benthic invertebrates	Fitobenth. and Phytoplanktons	Total biobio-status	Confidence level	HMWB-High status	Oxygen parameters	Acidity	Nutrients	Other specific pollutants	Confidence level				Class of chemical status	Confidence level
DR_1	2	3	3		2	3	L	NO	2	2	2	2	M	3	L	2	2	L
DR_2	2	3	3		2	3	L	NO				2	M	3	L	2	2	L
DR_3	2	3	3		2	3	L	NO	2	2	2	2	M	3	L	2	2	L
DR_4	2	3	3		3	3	L	NO				2	M	3	L	2	3	L

- Low confidence level due to lack of parameters than have to be measured
- SEPA does not have capacity (analytical equipment) for HYMO: fish, macrophytes and phytobenthos, and some chemical parameters;
- Status is defined according to the parameters that are monitored;
- Full capacity for status definition is expected by 2018;



Directions for the sustainable development of the water management in the Republic of Serbia

- Water management Strategy (draft), 2015
- **Long term goal:** reaching the integrated water management within the whole territory of the republic of Serbia, which will ensure maximum of environmental, economical and social effects with respect to the international treaties;
- **The first priority:** Establishment of the appropriate water management system which will enable appropriate policy framework, institutional and financial capacity for fulfillment of the above mention strategic goal for the development of the water sector
- River Basin Management Plan for the Danube River in the Republic of Serbia (draft), 2015
- All River basin management plans on the whole territory of the Republic of Serbia should be in accordance with the River Basin Management Plan for the Danube River in Serbia;
- All Flood risk management plans on the whole territory of Serbia should be in accordance with Flood risk management plan for the Danube river in the Republic of Serbia;



Environmental objectives

- Protection and improvement of the HMWBs with aim to maintain and improve the good ecological potential and good chemical status;



Drina RB SWMIs –as jointly decided

First priority SWMIs

- Organic pollution: insufficient sewage and WWTPs coverage;
- Flooding;
- Hydromorphological alterations: hydropower energy facilities;
- Nutrient pollution: diffuse pollution from agriculture;
- Priority and hazardous substances: industrial emissions.

Additional SWMIs

- Sand and gravel extraction;
- Damp site used as municipal landfill;



SWMI 1 Organic pollution: insufficient sewage and WWTPs coverage

- VISION...zero emission of untreated wastewater..
- **Management Objectives: (agreed on the Workshop, Sept 2015)**
 - Specification of No of waste water collecting systems to be constructed until 2021;
 - Specification of number of WWTP to be constructed by 2021
 - Specification of treatment level (Secondary or tertiary)
 - Specification of emission reduction target;

THESE ARE MNGMT OBJECTIVES OR MEASURES?!

Strategic objective:

- Ensure set of measures that are going to reduce/eliminate pressures of organic pollution from the municipal sewages;

MEASURES:

- Development of municipal infrastructure have to be in accordance with water sector's Plan document in Serbia (dynamic and priority development);
- Ensure full transposition of Water related EU directive, in water law and related by-laws;



SWMI 2: Flooding;

- VISION:..no risk or threat to the population and economy
- MANAGEMENT OBJECTIVES:
 - Performance of Preliminary Flood Risk Assessment fo whole Drina RB
 - Preparation of flood hazard maps and flood risk maps
 - Development of Drina River catchment-based Flood Risk management Plans (P(revention), P(rotection) and P(reparedness));
 - Coordination with WFD implementation;
- MEASURES:
 - Perform hydological study and study about sediment trasport for the whole river Drina to be able to define relevant waters for further activities (maps and designing), and evaluate anthropogenic effect on the water status;
 - Involve local communities in to the process;
 - Ensure cross sectoral coperation in flood risk management (urban planing, hydro-energy production, environmental protection, hydromet);
 - In no flooding period ensure constant maintenance and control of water structures for flood protection;
 - Establish the system for the early warning;
 - Deffine the specially important object that potentialy require local flood protection;



SWMI 3: Hydromorphological alterations: hydropower energy facilities

- VISION: ...balanced management of past, ongoing and future structural changes of the riverine environment, so that aquatic ecosystem in the Drina RB functioning in the holistic way and is represented with all native species;
- MANAGEMENT OBJECTIVES:
 - Construction of the fish migration aids, with the number specified
 - Protection, conservation and restoration of wetlands/floodplains, with the defined steps
 - Implementation of the no net-loss principle
 - **MAY BE ONE OBJECTIVE SHOULD BE: Reach and maintain good ecological potential, and first two MO can be the measures?!**
- MEASURES:
 - Identify the deviation of the biological parameters which are caused by changes of HYMO characteristics:
 - Identify the measures for reaching good environmental potential by cross sectoral cooperation:
 - Identify measures that do not have negative impact on water use and flood protection



SWMI 4: Nutrient pollution: diffuse pollution from agriculture

- VISION:...balanced management of nutrients emission via point and diffuse source of emission
- MANAGEMENT OBJECTIVES:
 - Reduction of total amount of nutrient entering the river Drina;
 - Reduction/elimination of phosphate detergents
 - MO for organic pollution with focus on nutrient emission reduction
 - Create base line scenario for nutrient input
 - Define the quantitative target for nutrient reduction; (basin, sub-basin and national);
- MEASURES:
 - Ensure application of ND (276/91) and CAP, by definition of vulnerable zones and implementation of protection measures;
 - Establish monitoring and control of fertilizer and chemicals for plant protection use, especially in the protected areas;
 - Ensure adequate use of forest land ;
 - Define the measures for evacuation of sewage water in the settlement with less than 2000 PE, and appropriate treatment technology;



SWMI 5: Priority and hazardous substances: industrial emissions

- VISION: ..no risk or threat to human health and aquatic ecosystem..
- MANAGEMENT OBJECTIVES:
 - Elimination/reduction of total amount of hazardous substances entering the Drina river (good chemical status by 2021)
 - Implementation of BAV and BEP
 - Set up quantitative reduction objectives for pesticide emission;

MEASURES:

- Ensure reconstruction of existing WWTP in industries to reach prescribed emission standards;
- Ensure pretreatments for industrial discharge in public sewage to prevent negative impacts to human health and sewage systems;
- Ensure implementation of the prevention measures in the industries (constant leakage of hazardous substances or in case of accidental situation)
- Ensure maintenance of the water polluters cadastre;
- Raising the capacity of the national laboratories for monitoring the required parameters.



SUGESTED MEASURES FOR ADDITIONAL SWMIs

- Additional SWMI1: Sand and gravel extraction
- Additional SWMI2: Dump site used as municipal landfill



Supplementary Measures: According to WFD Annex VI, part B

- Full transposition of EU water related Directived requirements in the local legislation (laws and by laws);
- Raising of the capacity (institutional, local government level) and cross sectoral cooperation related to water issues;
- Implementation of the principles cost recovery for water services and polluter pays;
- Beter use of EU funds in the water sector;
- Multy level educational programs related to raising awarenes about water issues;
- STA JOŠ?!



THANK YOU FOR YOUR ATTENTION

HVALA NA PAŽNJI

