

Integration of Measures in the Sava River Basin Management Plan

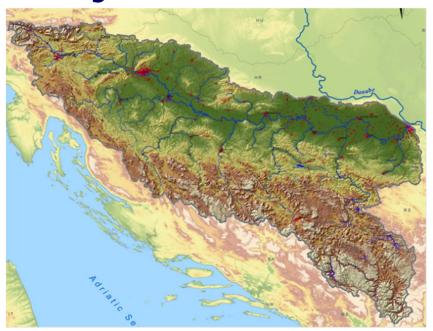
1st Danube Region Workshop 28-29 January 2014, Szentendre (H)

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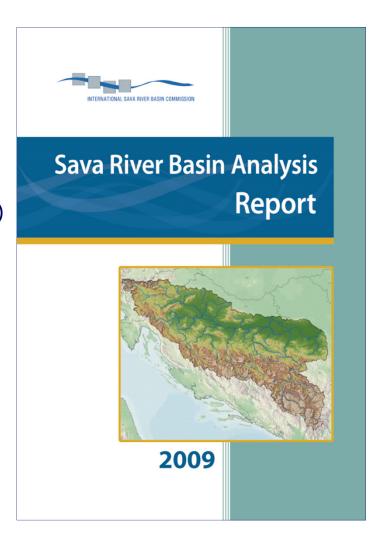


1st Danube Region Workshop, 28-29 January 2014



Sava River Basin Analysis (Characterization Report)

- The SRBA addressed the requirements of Art. 5 and Art. 6 of WFD
- Sava River Basin Analysis Report
 - Adoption (Sep. 2009)
 - Publishing and posting on web (Mar. 2010)
 - Comprehensive nature
 - Water quality (Art.5. EU WFD)
 - Water quantity
 - Hydrology report
 - Hydromorphology report
 - Flood management
 - Navigation development
 - First GIS maps of the basin





Preparation of the Sava RBM Plan

- **Financially supported** by the European Commission
- Support was activated in Dec. 2009 and ended in Dec. 2011



- Included (in addition to the Plan)
 - Support to the initial phase of the Sava GIS establishment
 - Stakeholder involvement and public participation issues
- Technical assistance covering Montenegro



Significant WMI addressed

Criteria applied:

 The Sava River a catchments size of basin-wide important
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>1,000
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Significant Water Management Issues addressed

- Organic pollution
- Nutrient pollution
- Hazardous substances pollution
- Hydromorphological alterations
- Groundwater quality







Other relevant issues addressed

Groundwater quantity

Quantity and quality of sediments

Invasive alien species

Protected areas

Integration of water protection with other developments in the Sava River Basin

- Floods
- Navigation
- Hydropower
- Agriculture







Programme of measures

PoM responds to all the **significant pressures** in order to achieve the agreed **environmental objectives** (**WFD Article 4**) and **visions** on a basin-wide scale.

Surface waters - Organic pollution
 Nutrient pollution
 Hazardous Substances Pollution
 Hydromorphological Alterations

Ground water - Quality Quantity

- Invasive alien species
- Quality and quantity aspects of sediments







Surface waters - Organic pollution

Basic measures:

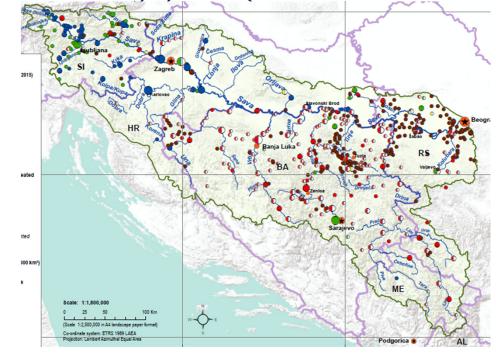
- Implementation of the UWWT Directive, Sewage Sludge Directive and IPPC;
- Increase of the efficiency and level of treatment when necessary.

The implementation deadline for UWWT is 2017 for SI and 2023 for HR.

Non-EU Countries:

Specification of number of wastewater collecting systems (connected to

respective WWTPs) by 2015;





Surface waters - Organic pollution

Description of scenarios:

Baseline scenario I:

Agreed lists of agglomerations with wastewater infrastructure in the SRB;

Midterm scenario II:

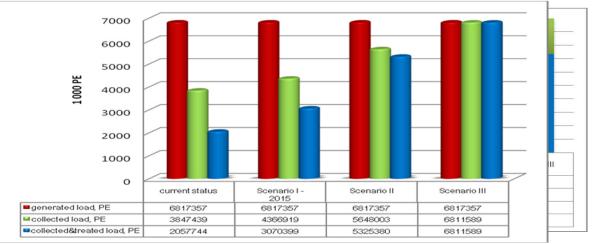
Wastewater collection and treatment in agglomerations >10,000 PE;

Vision scenario III:

- ■Wastewater collection and treatment in agglomerations >2,000 PE;
- •The UWWTPs capacity for the entire generated pollution load;
- Sewerage collecting system for entire pollution load.

Development of urban wastewater t in agglomerations above 2,000 PE

Planned developments in collection and treatment of generated load



Surface waters - Nutrient pollution



Basic measures:

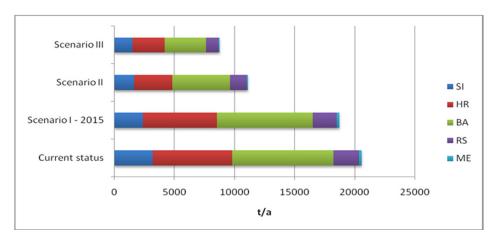
Implementation of the UWWTD and EU Nitrates Directive

The implementation deadline for SI and HR according to accession treaties.

Non-EU Countries:

- Maximum limit of P_{tot} (0.2 to 0.5%) for laundry detergents and launch of polyphosphate-free dishwasher detergents;
- Definition of basin-wide and/or national quantitative reduction targets;
- Specification of number of wastewater collecting systems;
- Creation of baseline scenarios for nutrient input up;
- Implementation of the BAT and BEP regarding agricultural practices;

Changes in emissions of N_t from significant urban pollution sources





Surface waters - Hazardous Substances Pollution

Basic measures:

- Implementation of the **EU Directives** (Directive on industrial emissions –
 IPPC, Dangerous Substances Directive and Directive on environmental quality standards for water policy);
- To set up monitoring programmes (priority substances and specific pollution of industrial wastewaters);
- To create legislative rules for the regulation and implementation of prevention and the control of discharges and leaks of these substances;
- To ensure the registration of applied pesticide products.

Non-EU Countries:

- Implementation of BAT and BEP including the further improvement of treatment efficiency, treatment level and/or substitution;
- Exploring the possibility to set down quantitative reduction objectives for pesticide emission.

Accidental pollution:

prevention of accidents and ensuring effective contingency planning (Protocol on Emergency situations)



Ground water – **Quality**

Basic measures:

- Implementation of the prevention/limitation of pollutants inputs into groundwater according to the EU Directives (Groundwater, Nitrates, Plant Protection Directive and the Biocides Directive);
- Implementation of the Urban Wastewater Treatment Directive;
- Implementation of the IPPC, Dangerous Substances Directive and Directive on environmental quality standards for water policy.

Supplementary measures:

- Implementation of the management objectives for organic and nutrient pollution of surface water;
- Increase of wastewater treatment efficiency;
- Implementation of BAT and BEP;
- Reduction of pesticide / biocides emission.



Measures on other pressures

Interruption of river and habitat continuity:

 building of fish migration aids and other measures to improve river continuity by 2021/2027 (the 2015 deadline for SI), restoration, conservation and improvements of habitats continuity for migratory species.

Hydrological alterations:

 analysis of the hydrological alterations and definition of operational management objectives.

Morphological alterations:

- •protection, maintenance and avoiding their deterioration,
- additional investigations to define the causes of deterioration,
- branch and floodplain reconnection,
- restoration of the meandering
- restoring and mitigating the effects of dredging and
- planting of natural vegetation









Measures on other pressures

Groundwater quantity

- Over-abstraction from GWBs within the Sava River Basin will be avoided by sound groundwater management;
- Implementation of WFD (2000/60/EC) requirements that groundwater resources are not depleted by the long-term annual average rate of abstraction.

Invasive alien species

 Promoting research into methods and approaches that improve the ability to assess whether or not alien organisms will have an adverse impact on biodiversity including an investigation of the influence of invasive species on ecological status.

Quality and quantity aspects of sediments:

 Development of Sediment Management Plan (Protocol on Sediment Management)



Future steps

Sava River Basin

The target date for drafting 2nd SRBA is end of 2014

Document of SWMI

 First draft is planned to be available for public consultation in November 2014

Overview of implementation of POM:

Part of 2nd cycle of Sava RBM Plan development



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