

## ROADMAP FOR AN ACTION

Action 3: ***“To continue to invest in and support the information collection systems already developed by ICPDR”.***

Action - ***“To continue to invest in and support the information collection systems already developed by ICPDR”***, activities such as the Transnational Monitoring Network, the Danube Joint Surveys or the GIS (Geographic Information System) databases provide essential information necessary to identify key problems and take action in order to meet the objectives of the Water Framework Directive. Such tools need to comply to the measures, rights and obligations of the INSPIRE directive<sup>45</sup>, be further supported by the countries involved and developed to meet new challenges and questions such as those connected to climate change scenarios or the migration of fish. There should be improvement in the standardisation of sampling and analysing methods and clear commitments to meet sampling and analysing targets.

→ Example of project - ***“To carry out the next Joint Danube Survey by 2013 and to complete the development of the existing Danube GIS Database”.*** In the field of water management, collecting and analysing data, further harmonization of other national monitoring and assessment methods, is of the utmost importance. To this effect, the existing work already completed needs to be further developed and monitoring of water quality needs to be a permanent feature. As far as the GIS system is concerned, it will be critical to make it compatible with the WISE system developed by the EU and to make results available to other key actors. (Lead: ICPDR; Deadline : 2013)

→ Example of project - ***“To establish and complete the Sava GIS”*** - the Sava GIS Strategy was adopted by the ISRBC in 2008. The main aim of the Sava GIS Strategy is to establish an effective and efficient (geo) information system and spatial data infrastructure to support a wide range of water management planning activities. In December 2009, a grant was received from the European Commission to support the ISRBC in preparing and implementing its river management plan. In this way, collected national data sets will be refined and verified and initial activities in the establishment of the Sava GeoPortal core functionalities will be performed. (Lead: ISRBC; Deadline : December 2013)

### **Milestone n°1: ICPDR databases**

**Work:** Collection of information and data to supplement the DRBMP gaps and provide support for the DRPC implementation at the national level

**Output:** databases related to the A(ccidental)R(isk)S(ites) inventories, C(ontaminated)S(ites) inventory, M(ining)S(ites) inventory, emission discharges inventories, hazardous substances and TNMN

**Responsible:** ICPDR

**Deadline:** end 2015

**Project 1:** Development of databases on inventories related to ARS, CS and MS

**Output:** databases on inventories related to ARS, CS and MS

**Status of the project:** ongoing project

**Funding:** EU, C(ontracting) P(artie)s

**Responsible:** ICPDR

**Deadline:** end 2014

**Project 2:** Further development of TNMN database

**Output:** improved TNMN database

**Status of the project:** ongoing project

**Funding:** EU, CPs

**Responsible:** ICPDR

**Deadline:** end 2015

**Projects 3:** Development of database on inventories on H(azardous)S(ubstances)

**Output:** Emission inventories on HS

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*Status of the project:* ongoing project

*Funding:* EU, CPs

*Responsible:* ICPDR

*Deadline:* end 2014

**Milestone n°2: Joint Danube Survey 3**

*Work:* The general objective of the JDS3 is to undertake an international longitudinal survey producing comparable and reliable information on water quality for the whole of the length of the Danube including the major tributaries on a short-term basis. The outcomes of the JDS3 should cover the information gaps as necessary for the implementation of the EU Water Framework Directive.

*Output:* Expedition surveys for collecting samples, Technical & Public Report of the JDS3 and the database.

*Responsible:* ICPDR

*Deadline:* 30/09/2014

***Project 1:*** Monitoring survey on the Danube

*Output:* Samples collected

*Status of the project:* planned project

*Funding:* ICPDR Contracting Parties, SEE Programme, donors

*Responsible:* ICPDR

*Deadline:* 30/09/2013

***Project 2:*** Preparation of the JDS3 reports

*Output:* Monitoring data collected, Technical & Public Report prepared

*Status of the project:* planned project

*Funding:* ICPDR Contracting Parties, donors

*Responsible:* ICPDR

*Deadline:* 30/09/2014

**Milestone n°3: Joint Tisza Survey 1**

***Project 1:*** Monitoring survey on the Tisza River

*Output:* Samples collected

*Status of the project:* planned project

*Funding:* ICPDR Contracting Parties (partly), SEE Programme, donors

*Responsible:* ICPDR

*Deadline:* 30/09/2013

***Project 2:*** Preparation of the JTS1 reports

*Output:* Monitoring data collected, Technical & Public Report prepared

*Status of the project:* planned project

*Funding:* ICPDR Contracting Parties (partly), SEE Programme, donors

*Responsible:* ICPDR

*Deadline:* 30/09/2014

***Project 3:*** Survey and assessment of hydro-ecology of the Tisza River

*Output:* Monitoring data collected, Technical & Public Report prepared

*Status of the project:* planned project

*Funding:* EU

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*Responsible:* University of Debrecen HU, research institutions of UA, SK, RO, RS and AT, HR as partners  
*Deadline:* 2015

**Milestone n°4: INSPIRE compliant DanubeGIS**

*Work:* Completion of the existing Danube GIS Database complying with INSPIRE Directive  
*Output:* Updated Danube GIS Database  
*Responsible:* ICPDR  
*Deadline:* 2015

***Step 1:*** Refinement of system concept and preparation of implementation plan

*Output:* System concept and implementation plan  
*Funding:* ICPDR  
*Responsible:* ICPDR  
*Deadline:* 2012

***Step 2:*** Development of tools for integrated visualisation and interpretation of data

*Output:* Tools for integrated visualisation and interpretation of data  
*Funding:* ICPDR, EU  
*Responsible:* ICPDR IMGIS EG  
*Deadline:* 2015

**Milestone n°5: Establishment and completion of the SavaGIS**

*Work:* Development of Sava GIS database  
*Output:* Sava GIS database  
*Responsible:* ISRBC  
*Deadline:* after 2015

***Step 1:*** First implementation phase (ongoing): Setup of the core Sava GIS functionalities.

*Output:* First implementation phase: Sava GeoPortal, tools, services and products in line with the preparation of the Sava River Basin management Plan.  
*Responsible:* ISRBC  
*Deadline:* ongoing - 2012

***Step 2:*** Second implementation phase: Development of the advanced tools, mapping and reporting services as well as basic application and/or decision support systems.

*Output:* Second implementation phase: Report services - query access and generating report/content by using predefined set of templates; Advanced Mapping Service; Content Management System Catalogue Service.  
*Responsible:* ISRBC  
*Deadline:* 2015

***Step 3:*** Third implementation phase: Extension of common data model to accommodate additional themes and datasets and the establishment of the most advanced service components

*Output:* Third implementation phase: Dynamic reporting and mapping, On-line monitoring and observing, Advanced decision support systems, Various assessments (e.g.

assessing compliance to various directives), Comparisons analysis across Sava River Basin.

*Responsible:*

ISRBC

*Deadline:*

after 2015