

WP 5 Flood Management

Led by/Presenter **Led by National Administration**

ROMANIAN WATERS

JOINTISZA Project

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WP 5

- Duration February 2017-June 2019
- The main objective of the WP5 is to develop a strategic paper on Tisza River Basin Management Plan (TRBMP) and Tisza Flood Risk Management Plan (TFRMP) integration process.
- The WP5 results will be integrated into WP 6 output (final draft of the update Tisza River Basin Management Plan) and partially into 3.1 output (GIS improved database)

WP 5 Description - List of activities

- **5.1 - Data collection related to flood issues and climate change;**
This activity will cover:
 - *1. General description of the Tisza river basin* - in terms of **Relief; Geology; Climate, Water resources, soil, biodiversity, Population - human settlements, Land use, Economic activity, Infrastructure, Recreation and tourism, Cultural heritage;**
 - *2. Flood risk at Tisza level* - Based on available data, it will be presented a synthetic **Description of flood protection infrastructure, Drainage system; an Inventory of Significant historical floods, in Tisza River Basin and of Areas with significant potential flood risk; Inventory of National Hazard maps and flood risk maps within Tisza River Basin level, Statistical indicators, Climate change reports based on available studies at EU/national level; estimation of the impact of Climate Change on high flow.**
- Romania will provide a template (with maps) and will elaborate in an unitary form a general comprehensive report.

5.2. Developments of elements of Tisza Flood Risk Management Plan – country reports

- **Developments of elements of Tisza Flood Risk Management Plan – country reports**
- The FRMP propose structural and non-structural measures. Based on , it will be presented an overview of flood risk management strategy defining integrated projects at Tisza level
- 1. Description flood risk management objectives at Tisza RB level - defining strategic & specific flood risk management objectives.

Each country will provide in synthesis the FRM objectives for Tisza (defining strategic objectives for FRM Strategy for Tisza taking into account the ICPDR approach (avoid/prevent new risks, reduce existing risks, increasing resilience)

- **2. Summary of the FRM proposed measures (both structural and nonstructural)**, based on a common catalogue of potential measures. provide by Romania, that follows 5 areas of action linked to the cycle of FRM: Protection, Prevention, Preparedness, Awareness, Restoration/Reconstruction
- **3. Each country will provide examples for each type of measure** (if it is applicable). Inventory of the highest priority measures provided by each country in the areas with transboundary effect in order to achieve the strategic objectives of flood risk management

5.3 Synthesis of country reports and Development of strategic paper on the integration of Tisza River Basin Management Plans and Tisza Flood Risk Management Plans

- The Tisza River Basin Management Plan and Flood Risk Management Plan form elements for an integrated management at river basins level and result the importance of **coordination** between the two processes guided by Water Directive and Floods Directive.
- This activity involves highlighting win-win measures, from both perspectives (WFD and FD).
- It is about the measures to coordinate the development and implementation of FRMP and RBMP at Tisza River Basin level, measures that support environmental objectives of Water Directive 2000/60/EC.
- Romania will provide a template and each partner will transmit a summary of definite taken into consideration measures to coordinate the development and implementation of FRMP and RBMP at Tisza basin level, measures that support environmental objectives of Water Directive.

5.4. Comparison of Flood Risk and Shared Vision Planning (SVP) method in stakeholder involvement

- FRMP are undertaken a series of steps for informing and consulting the public and to encourage the active involvement of stakeholders in the development of FRMP in coordination with Water Directive.
- Each country, will emphasize taken steps at national and basin level on the development of FRMP (reported for EC) and **The information and public consultation regarding to the drafting of FRMP.**
- It will make a comparative analysis of approaches used in partner countries and will elaborate a report about "Lessons learned" and will participate in the training for SVP in activity 6.5

5.5 Simulation of dike failure with transboundary effect

- **Simulation of dike failure with transboundary effect**
- To develop a study simulating effect of a dike failure on the river Crasna (upstream HU-RO border) the following activities are needed:
 - - Analysis of baseline data;
 - - Establishing simulation scenarios;
 - - Making hydraulic model;
 - - Hydraulic model calibration and validation;
 - - Processing results;
 - Conclusions and recommendations.
- The following data are necessary: topographic and hydrological data, hydraulic structure scheme; land use data.
- Outcomes of this activity will be included in the update of the 1TRBMP within the WP6 Synthesis and Tisza Group of ICPDR

April 11, Budapest, Hungary

Thank you for your attention!

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Partners: General Directorate of Water Management, Hungary | Global Water Partnership Central and Eastern Europe, Slovakia | International Commission for the Protection of the Danube River, Austria | Ministry of Environment, Water and Forest, Romania | Ministry of Foreign Affairs and Trade, Hungary | National Administration "Romanian Waters", Romania | National Institute of Hydrology and Water Management, Romania | Public Water Management Company "Vode Vojvodine", Serbia | Regional Environmental Center for Central and Eastern Europe, Hungary | The Jaroslav Černi Institute for the Development of Water Resources, Serbia | Water Research Institute, Slovakia | World Wide Fund for Nature Hungary

Associated Partners: Interior Ministry, Hungary | Ministry of Agriculture and Environmental Protection Water, Serbia | Secretariat of the Carpathian Convention (SCC), Austria | State Agency of Water Resources of Ukraine | Tisza River Basin Water Resources Directorate, Ukraine