

JOINTISZA results



Improved **geographic information system (GIS) database**



Development of the **JoinTisza Survey Manual**



Guidelines on best management of urban hydrology – a process oriented spatial decision support tool for urban water management pilot on two areas



Training of best management on urban hydrology



Dyke failure simulation with transboundary effects on Crasna River



Guidance paper on climate change-induced water quantity issues – Shared Vision Planning (SVP) concept testing to strengthen cooperation of RBM and flood risk Management sectors



Enhanced stakeholder involvement, Public Involvement and Participation Strategy (PIPS): covered the aspects of communication, information access and public participation related to the development of the updated ITRBMP



Final draft of the updated ITRBMP, including the Joint Programme of Measures (61 win-win potential measures, which reduce flood risks and support the implementation of the WFD)

Project co-funded by European Union funds (ERDF, IPA)

Project Partners: 12

General Directorate of Water Management, Hungary (lead partner) | Global Water Partnership Central and Eastern Europe, Slovakia | International Commission for the Protection of the Danube River | Jaroslav Černi Institute for the Development of Water Resources, Serbia | Ministry of Water and Forests, 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 | Water Research Institute, Slovakia | WWF Hungary



Associated Strategic Partners: 5

Ministry of Interior, Hungary | Ministry of Agriculture and Environmental Protection – Water Directorate, Republic of Serbia | Secretariat of the Carpathian Convention, Austria | State Agency of Water Resources, Ukraine | Tisza River Basin Water Resources Directorate, Ukraine

FURTHER PROJECT INFORMATION:

<http://www.interreg-danube.eu/approved-projects/jointisza>

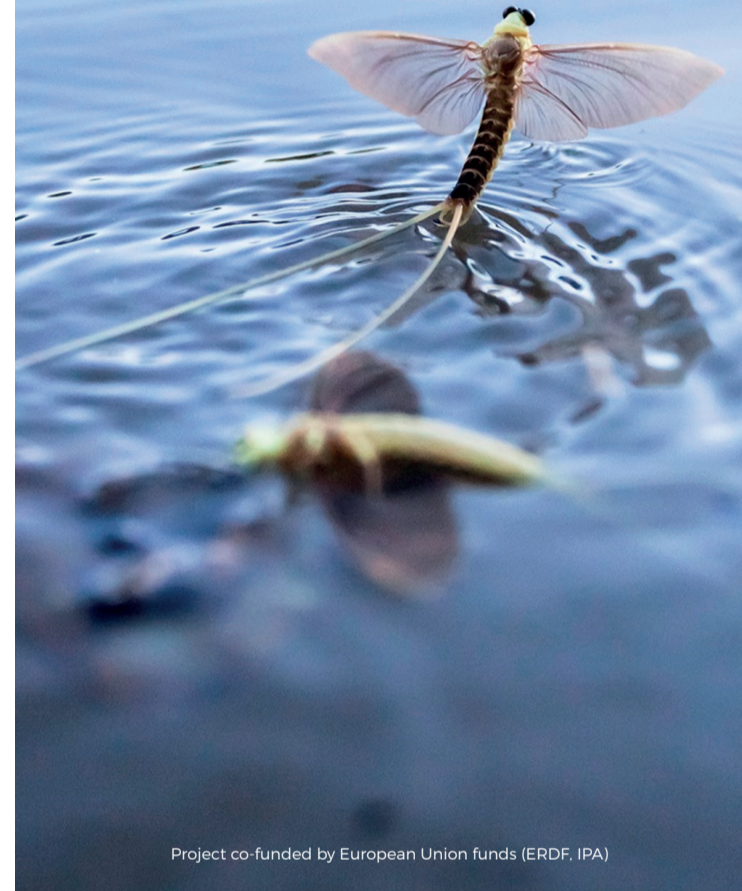
CONTACT DETAILS:

Balázs Horváth project manager
General Directorate of Water Management
jointisza@ovf.hu

Project co-funded by European Union funds (ERDF, IPA)

Strengthening cooperation between river basin management planning and flood risk prevention to enhance the status of waters of the Tisza River Basin

DTP1-1-152-2.1



Project co-funded by European Union funds (ERDF, IPA)

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Specific Objective: SO2.1 Strengthen transnational water management and flood risk prevention

Programme Priority: PA2 Environment and culture responsible Danube region

Budget: 2,254,126.8 €, project co-funded by European Union (ERDF and IPA funds) and made possible by the Danube Transnational Programme

Duration: 1 January 2017 – 30 September 2019 (33 months)

Project partners: 12 partners & 5 Associated Strategic Partners (ASPs)

Facts & Figures

- identified solutions to common challenges identified across the Tisza River Basin
- built momentum to address the international dimension of these issues in a coordinated way at transboundary level
- improved integration of water management and flood risk prevention planning and actions for the next river basin management planning cycle, in line with the relevant EU legislation.

SPECIFIC OBJECTIVES

Develop an updated ITRBMP based on shared knowledge, experiences, scientific evidence, in order to strengthen transnational water management and flood risk prevention and enhance the long-term status of the waters of the Tisza River Basin.

Aims of the JOINTISZA project

- Pollution by organic substances,
 - Pollution by nutrients,
 - Pollution by hazardous substances,
 - Hydromorphological alterations.
- of surface waters:

Based on the 1st ITRBMP and Danube River Basin Management Plan (DRBMP) Update 2015, as well as on national River Basin Management Plans and related documents of the Tisza River Basin (TRB) countries, the updated ITRBMP focuses on four significant Water Management Issues (SWMIs), which are the main pressures that can affect the status

Significant Water Management Issues (SWMIs)

- Water quality related pressures
- Water quantity related pressures
- Integration of water quality and quantity in the Tisza River Basin

Main challenges in the Tisza River Basin:

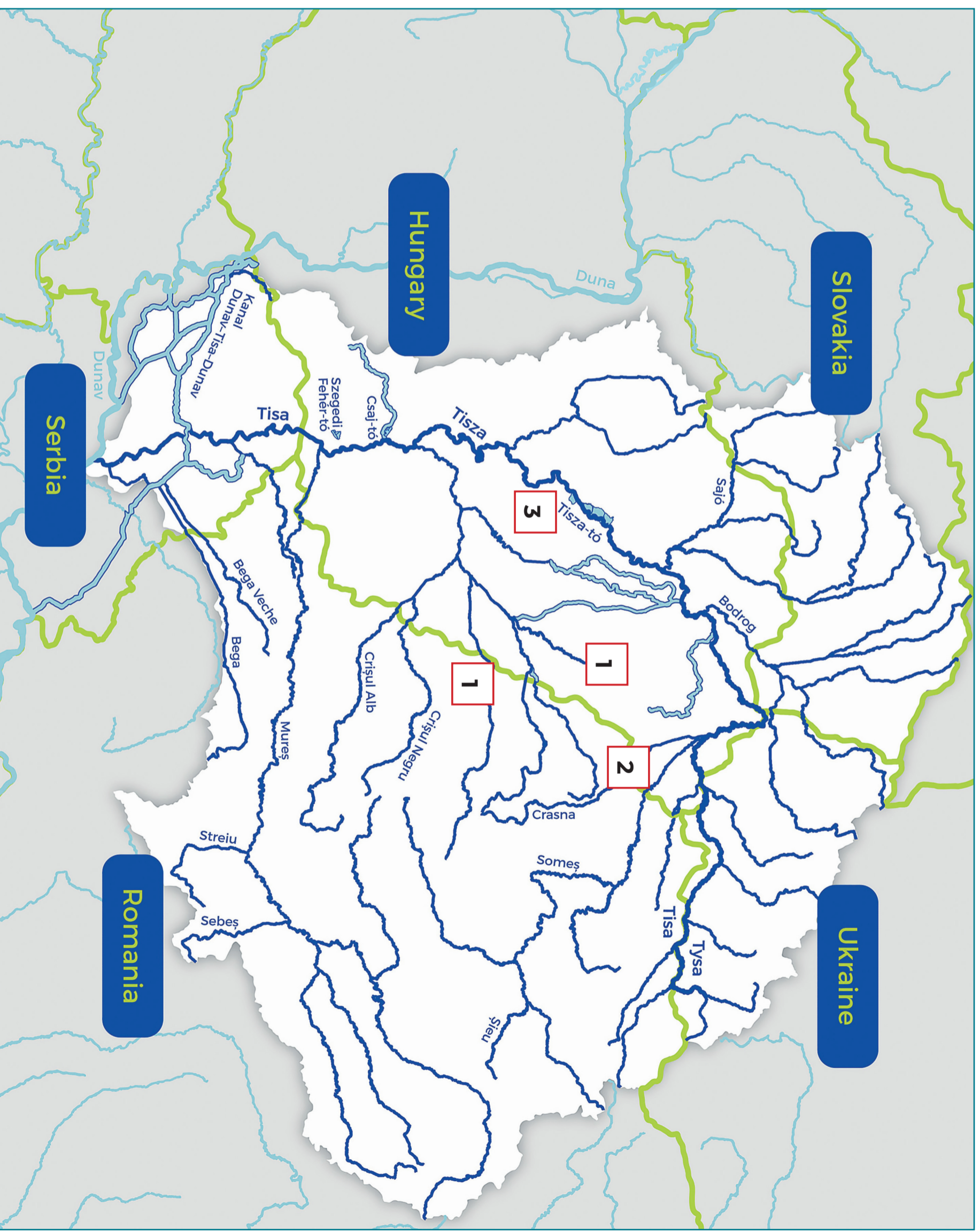
BACKGROUND FOR COOPERATION:

- 1994 – Danube River Protection Convention
 - 2000 – Implementation of the EU Water Framework Directive at level of river basin and sub-basin
 - 2004 – Tisza Memorandum of Understanding (ICPDR)
 - 2011 – Updated Tisza Memorandum of Understanding
 - 2011 – European Strategy for the Danube Region
 - 2011 – 1st Integrated Tisza River Basin Management Plan (ITRBMP)
- The region has an **outstanding natural ecological assets**, it is rich in biodiversity
 - The beauties of the Tisza River Basin are **shared between 5 countries:** Ukraine, Romania, Slovakia, Hungary and Serbia
 - The basin gives home to a population of **around 12.5 million people**
 - 150 years of human influence have contributed to problems in form of **pollution and changes to the natural form of the river**

Did you know?

Pilots:

- 1) **Urban Hydrology Management –**
 Best management in urban water management in Debrecen and Oradea
This activity resulted in the development of a transnationally utilizable, process oriented spatial decision support tool to provide a framework for sustainable urban water management strategy which can be utilized not only by hydrologists, but also by stakeholders, urban management, local government and disaster recovery organizations.
- 2) **Simulation of dike failure with transboundary effects on Crasna River**
The analysis was focusing on the international effects of dike failure simulation, which included the development of the 1D HEC-RAS hydraulic model and the 2D model for flood investigation, as well as simulation of the polder inundation in the submitted sections by the Hungarian-Romanian parties.
- 3) **Pilot on climate change induced specific water quantity issues** (Tisza River – Nagykunság subcatchment in Hungary)
The pilot activity investigated the climate change induced drought and flood related issues focusing on smaller region within Tisza River Basin (TRB). The task was elaborated by testing the method of Shared Vision Planning (SVP) in a smaller scale of the basin focusing on the Middle Tisza (Nagykunsdg subcatchment).



Additional activities:

- Stakeholder involvement: Public Involvement Participation Strategy (PIPS - was developed as a living document and continuously further improved till the project's end), 'Train the Planners Seminar series' - practical guidance to water engineers to expand their knowledge towards nature-based solutions in their work, National Follow-up events, Basin-wide Consultation, Electronic written consultation – events for the stakeholders' active involvement to the development of the updated ITRBMP planning process
- Development of the JointTisza Survey Manual for the planning of a JointTisza Survey to execute a longitudinal section examination along the whole Tisza
- JOINTISZA International Boat in the Plastic Cup in the Upper Tisza, in Hungary participated in cleaning the floodplain from plastic litter washed away from upstream landfill