



Project generation and implementation from 2015, activities of the KÖTIVIZIG-Tisza Office

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Middle Tisza District Water Directorate – Tisza Office

Hungarian Hydrological Society

Annual Assembly

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Key info

- **Officially opened in 2014 in Szolnok as an integrated part of the Middle Tisza District Water Directorate**
- **Founded by the Ministry of Foreign Affairs and Trade, by the General Directorate of Water Management of Hungary and by the Middle Tisza District Water Directorate**
- **Main tasks - initiate multilateral and bilateral projects, project implementation, management of international relations of the directorate**
- **Key projects – JOINTISZA (Co-Lead Partner), RAINMAN (Project Partner – German-lead project), FRAMWAT (Project Partner – Polish-lead project), Danube Floodplain Project (Project Partner – Romanian-lead project)**





Competences

- **Project management experiences**
- **Language skills (English, French, German)**
- **Knowledge of communication (formal & experiences)**
- **Intersectoral know-how (public administration, private sector, NGOs)**
- **Increasing acquaintance in water related sector**
- **Commitment and loyalty**
- **Creativity and rapid intervention**



Previous international projects and partnerships of KÖTIVIZIG

- SUMAD and ELLA Projects (INTERREG IIIB) - Flood protection
- SUMAR (LIFE ENV) - Sustainable utilisation of flood bed
- LABEL (INTERREG Central Europe) – Flood protection
- German R&D Ministry (STIRD) - Tisza Project
- INTERREG IVB - River navigation
- TWINBASIN – French-Hungarian joint action on fish passes
- EPIDOR (Joint action on environmental protection of Jász-Nagykun-Szolnok and Dordogne counties)
- Dutch-Hungarian Joint Water Management Committee
- Bavarian-Hungarian water management cooperation
- International Commission for the Protection of the Danube River
– Tisza Group



BACKGROUND - History of cooperation in the Tisza River Basin

Framework 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

1st Integrated Tisza River basin Management Plan (ITRBMP) - 2011

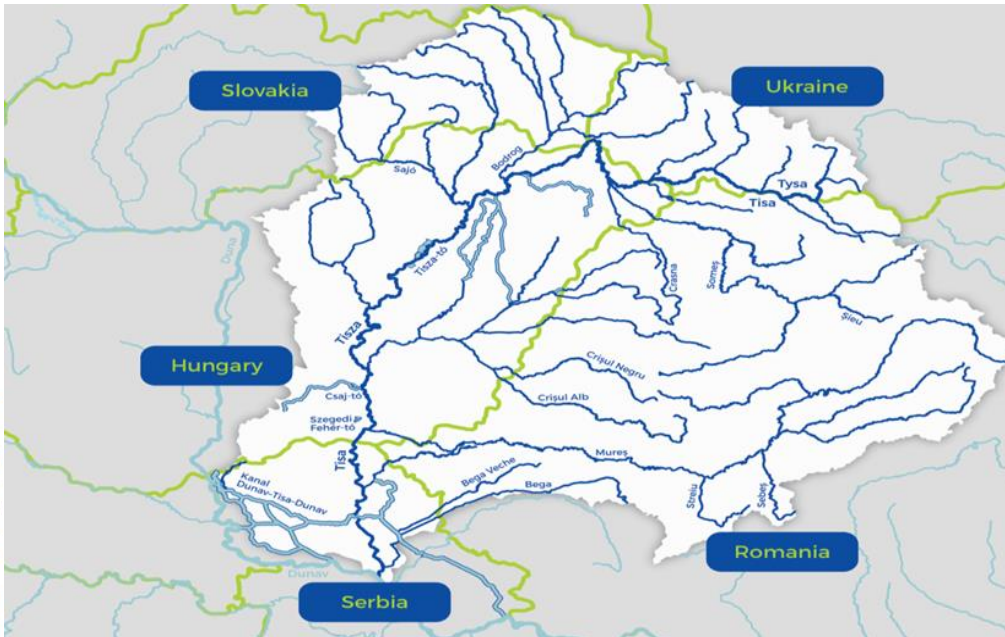


JOINTISZA - Facts & Figures

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

Project partners:	12 partners & 5 Associated Strategic Partners (ASPs)
Duration:	1 January 2017 – 30 June 2019 (30 months)
Budget:	2,254,126.8 €, project co-funded by European Union (ERDF and IPA funds) and made possible by the Danube Transnational Programme
Programme Priority:	PA2. Environment and culture responsible Danube region
Specific Objective:	SO2.1 Strengthen transnational water management and flood risk prevention

JOINTISZA - Partnership

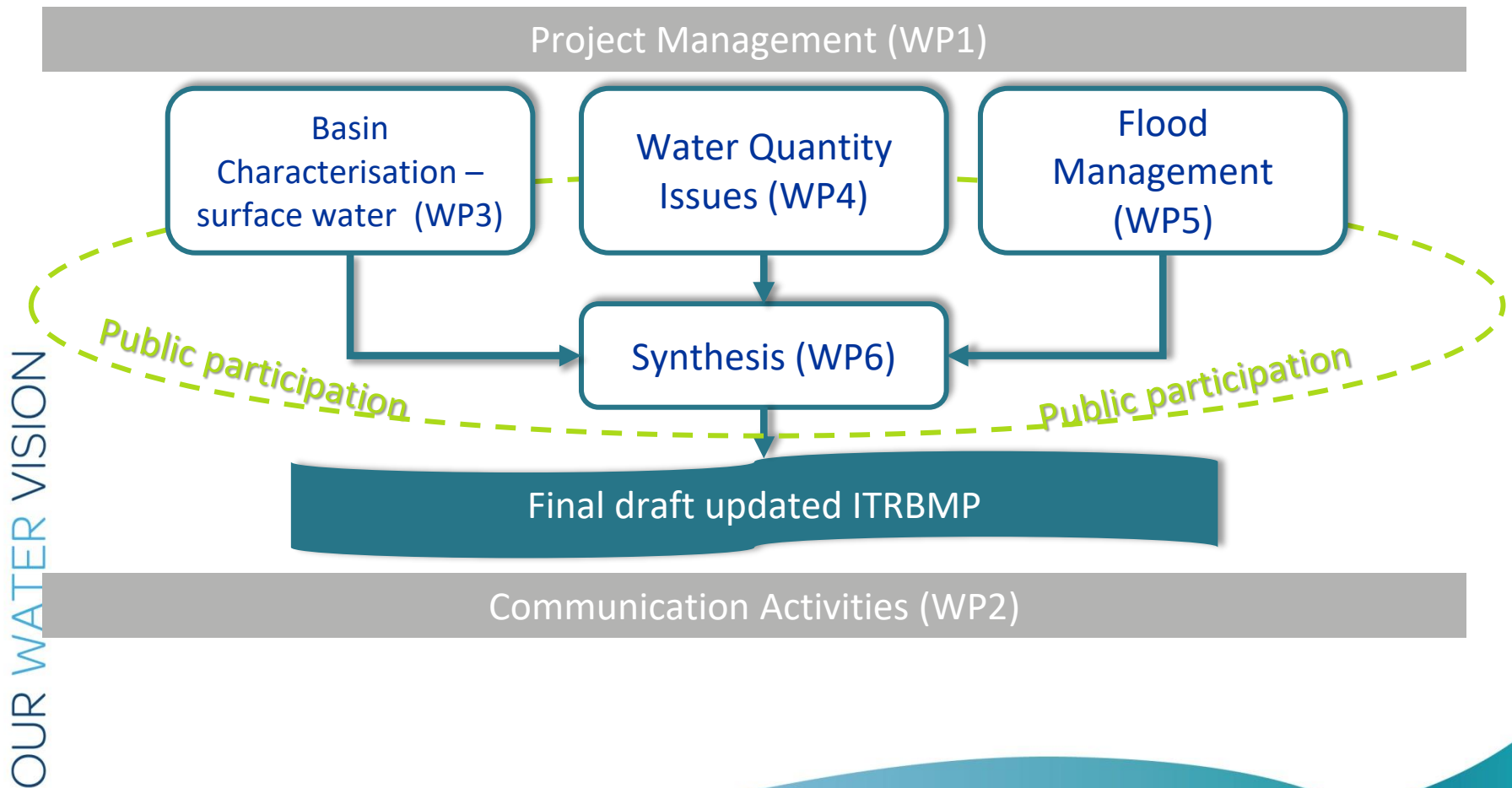


12 partners and 5 ASPs

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 | World Wide Fund for Nature Hungary

Interior Ministry, 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

JOINTISZA - Workflow





JOINTISZA outputs

- Improved **geographic information system (GIS) database**
- **Guidelines on best management of urban hydrology** - a process oriented spatial decision support tool for urban water management pilot on two areas [**Pilot action**]
- **Training** of best management on urban hydrology
- **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 [**Pilot action**]
- **Enhanced stakeholder involvement**, development and implementation of the Public Involvement and Participation Strategy
- **Final draft of the updated ITRBMP**



RAINMAN Project

GOAL - Reduce the losses in the natural and built environment caused by heavy rain

RAINMAN - Develops innovative management tools and methods for municipalities and other regional and local stakeholders



Tools developed until 2020



Outputs planned until June 2020



trainings offered to local, regional and international level





RAINMAN - Project Partners

- Saxon State Office For Environment, Agriculture And Geology - Germany
- Saxon State Ministry of the Interior - Germany
- Environment Agency Austria - Austria
- Office of the Styrian Government - Austria
- T. G. Masaryk Water Research Institute, P.R.I. - Czech Republic
- Region of South Bohemia - Czech Republic
- Croatian Waters - Croatia
- Middle Tisza District Water Directorate - Hungary
- Institute of Meteorology and Water Management - National Research Insitute - Poland
- Leibniz Institute of Ecological Urban And Regional Development - Germany

Activities

- 7 pilot activities in 6 countries
- implemented to test the developed joint methods and tools and to prove their feasibility and applicability
- different characteristics to cover a wide range of application conditions
- pilot actions improve the developed measures with experiences and make them transferable





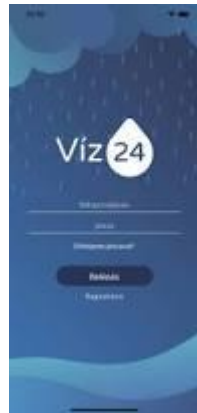
Outputs

RAINMAN-Toolbox

- The partners develop jointly a transferable toolbox with five tools to reduce heavy rain risks and to support the integrated environmental risk management of regional and local administrations. The toolbox contains: Assessment and mapping tool for heavy rain risks
- Implementation guide for risk reduction measures, warning and emergency response.
- Recommendations for flood risk management plans
- Awareness raising and stakeholder involvement tools
- Catalogue of good-practise examples for the integrated reduction of heavy rain risks

Mobile phone-based application

- A mobile phone-based application was created in order to forecast heavy-rain events, meteorological data, water related info. In the app, there are different levels of usage based on the role of the concerned actors

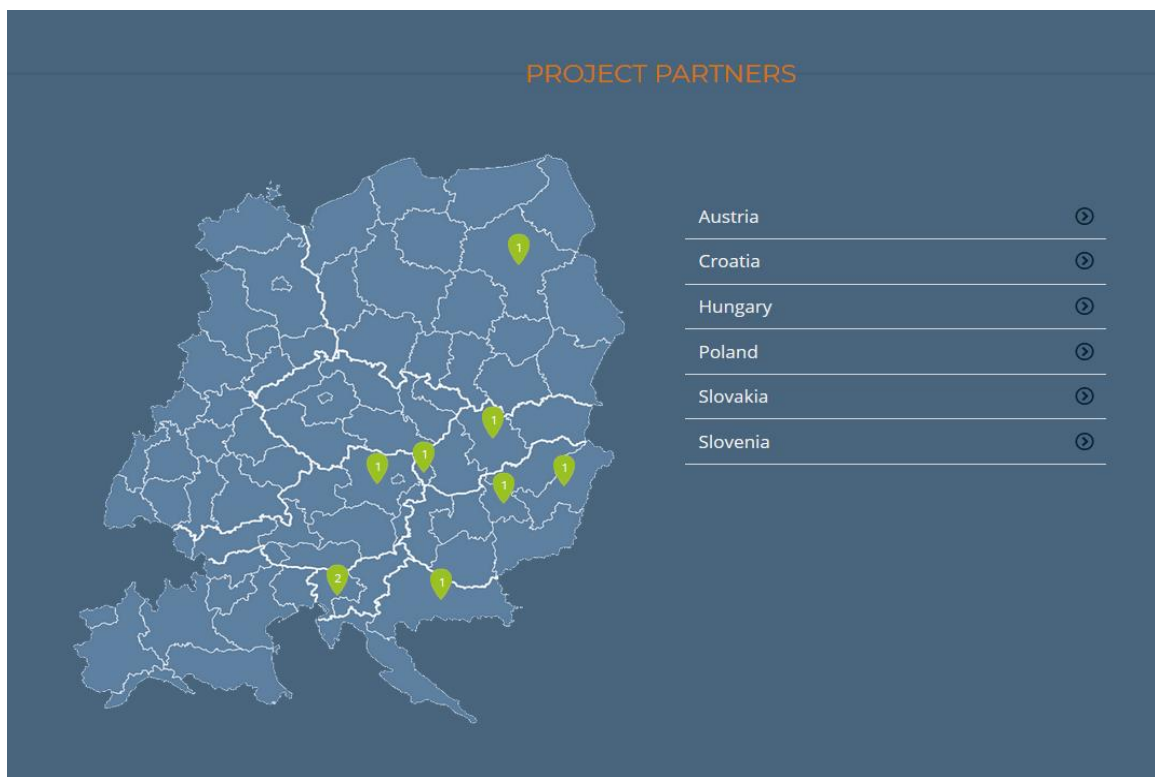


FramWat Project

- FramWat aims to strengthen the regional common framework for **floods, droughts and pollution mitigation** by **increasing the buffer capacity of the landscape**. It will do so by using the **natural (small) water retention measures (N(S)WRM)** approach in a systematic way. So far, the majority of water management and flood protection measures lack innovation and follow more traditional approaches without taking into account valuable ecosystem services provided by nature in the landscape settings
- **Duration: 30 months: 1 July 2017 – 30 June 2020**

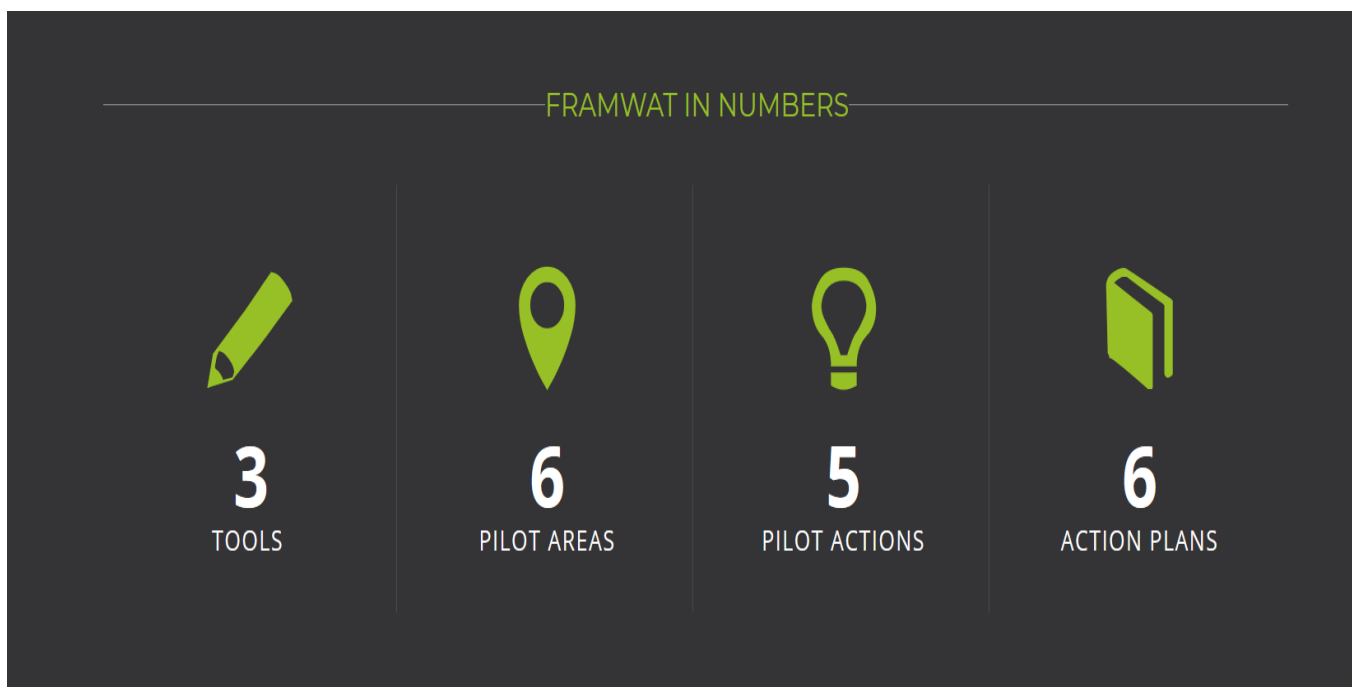


Project partners



FramWat in Numbers

OUR WATER VISION





Outputs

OUTPUTS

8.4.2019

OUTPUT O.T1.1

LANDSCAPE
VALORISATION
METHOD (VM) AND
GIS TOOL FOR
IDENTIFYING
LOCATIONS WHERE
N(S)WRM ARE
NEEDED

After training, testing and consultation period the final version of the Valorization Method (VM) and the GIS tools (FroGIS) was created.

8.4.2019

OUTPUT O.T1.2

TRAINING COURSE
ON HOW TO USE THE
GIS TOOL

After creating the prototype of GIS Tool (FroGIS), training of its use was conducted for all partners.

8.4.2019

OUTPUT O.T1.3

TESTING GIS TOOL IN
THE PILOT
CATCHMENTS

The results of the pilot action conducted by project partners in six pilot catchment: Kamienna, Aist, Bednja, Nagykunsági, Slaná, Kamniska Bistrica.

Pilot Areas

PILOT AREAS

<p>PILOT CATCHMENTS</p> <p>PILOT CATCHMENT IN SLOVAKIA</p>  <p>The Sianá river basin is affected by floods, there have been identified 31 geographical areas with significant flood risk which are connected with 8 water bodies.</p>	<p>PILOT CATCHMENTS</p> <p>PILOT CATCHMENT IN SLOVENIA</p>  <p>The Kamniska Bistrica River catchment was chosen as a pilot catchment because of its diverse character, ranging from wooded subalpine hills to lowland plains, which are highly urbanized.</p>	<p>PILOT CATCHMENTS</p> <p>PILOT CATCHMENT IN POLAND</p>  <p>The Kamienna Basin was chosen as a pilot catchment due to its ecological status and all of the problems (ie flood, drought, water quality) that occur within its area.</p>	<p>PILOT CATCHMENTS</p> <p>PILOT CATCHMENT IN HUNGARY</p>  <p>The Nagykunsági Basin is one of the sub-basins of Tisza River. Most of the sub-basin's water bodies are regularly affected by floods, droughts, and water quality problems occur almost every year.</p>
<p>PILOT CATCHMENTS</p> <p>PILOT CATCHMENT IN CROATIA</p>  <p>The Bednja river basin was chosen as the pilot catchment in Croatia because of a serious problem caused by torrents forming after intensive rainfall.</p>	<p>PILOT CATCHMENTS</p> <p>PILOT CATCHMENT IN AUSTRIA</p>  <p>The Aist Basin was chosen as a pilot catchment in Austria because the existing characteristics make it an appropriate case study region for a NSWRM approach.</p>		



Tools

TOOLS

8.4.2019
TOOL

FROGIS



A publicly available web application to analyze the needs and possibilities of water retention, the result of which is the valorization map supporting the N(S)WRM planning process.[New Link](#)

Danube Floodplain

The main objective of the project is improving transnational water management and flood risk prevention while maximizing benefits for biodiversity conservation



The main activities of the project are

- **updating the floodplain areas inventory and their ranking using the Floodplain Evaluation Matrix-FEM**
- **assessing, by using the pre-selected pilot areas, of the efficiency of floodplain projects in the Danube District**
- **developing tools for increasing the knowledge and cooperation of experts, practitioners, decision makers and stakeholders on floodplain restoration**



Danube Floodplain

The Project will develop tools contributing to DTP SO2.1:

- **The Danube basin wide floodplain restoration and preservation manual addressed mainly to practitioners**
- **A DRB Sustainable Floodplain management Strategic Guidance summarizing the key findings of the manual targeting a wider audience**
- **A DRB Roadmap comprising agreed next steps towards realizing floodplain projects**

Danube Floodplain

Start date

01-06-2018

End date

30-11-2020

Budget in Euro

Overall: 3.672.655,88

Call 2

Priority

**Environment and culture
responsible Danube region**

Specific objective

**Strengthen transnational water
management and flood risk
prevention**





Thank you for your attention!

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