

# WATER BALANCE MODELLING SYSTEM IN THE UPPER SAVA REGION WITHIN THE INTERREG PROJECT DANUBE WATER BALANCE

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Climate change is intensifying water balance challenges in the Danube River Basin (DRB), where fragmented data and differing national methods hinder effective management. The Danube Water Balance project unites all 14 DRB countries to develop a harmonized modelling system and establish a common basis for sustainable transnational water management

## PROJECT OBJECTIVES

SO 1: Enhanced joint data management for Danube River Basin water management planning

SO 2: A jointly developed water balance tool for the Danube River Basin

SO 3: Fostering mutual acceptance of joint water balance methodology through capacity building

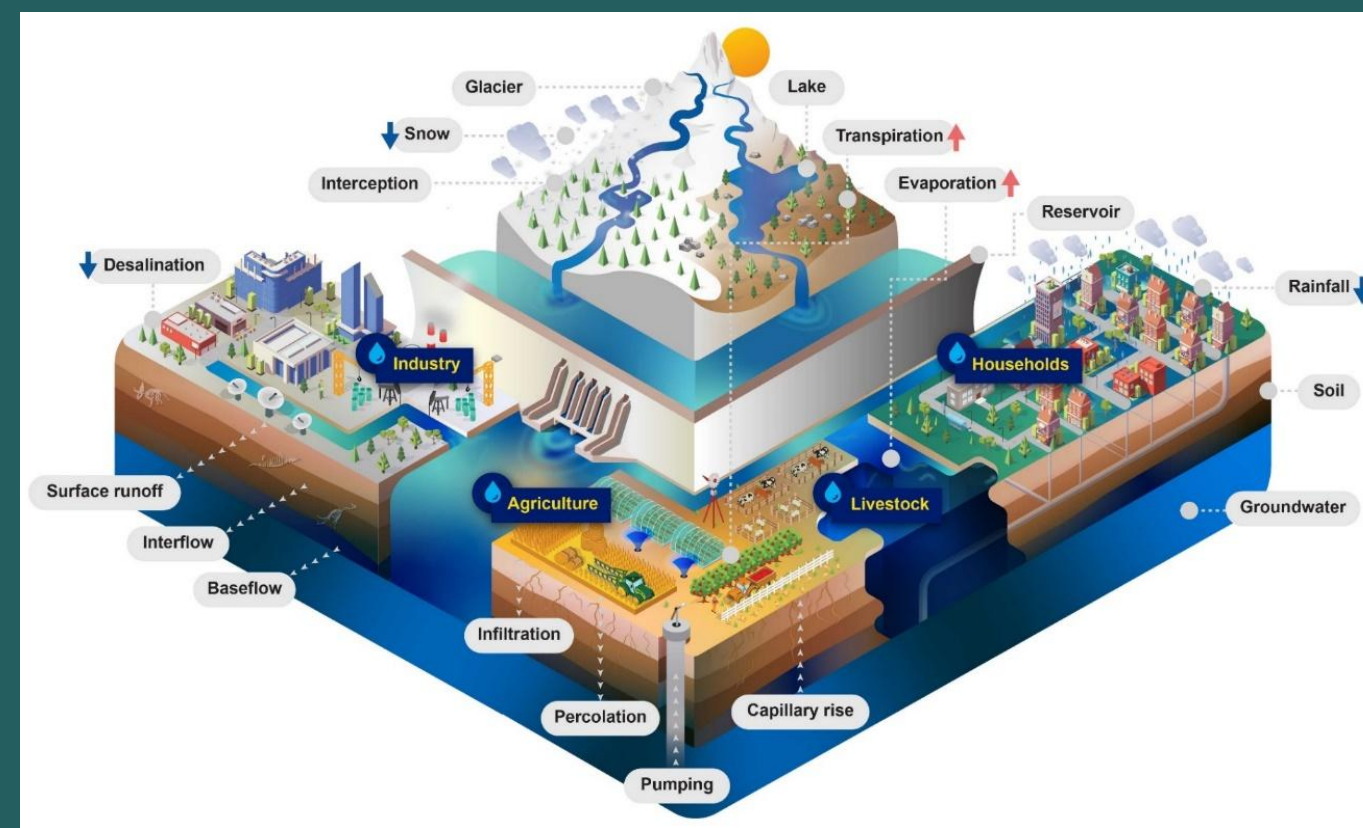
### ENHANCING WATER MANAGEMENT

Strengthening transboundary and cross-sectoral cooperation in the Danube River Basin.

### WATER BALANCE MODEL (CWATM)

Developing a basin-wide surface and groundwater model, tested in transboundary sub-basins along with climate scenarios application.:

- International Institute for Applied Systems Analysis (IIASA)
- hydrological model simulating the water cycle daily at global and local levels
- open-source model based on the Python
- spatial resolution is flexible
- modular design allows integration with other models and subsystems



CWatM - Danube Water Balance model

3.028.319,50 €

115.205.00 €

1/2024-9/2026

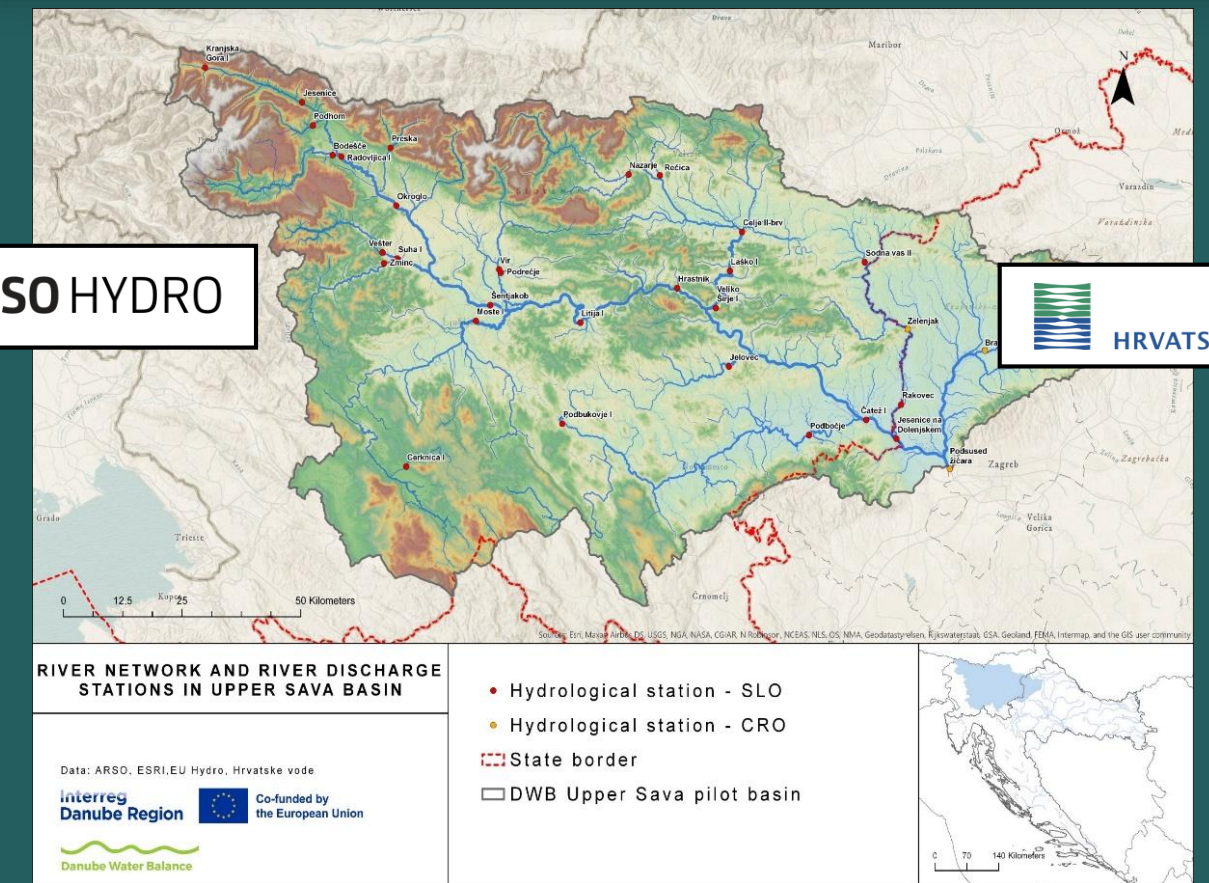
Total Project budget

Total PP8 – Croatian Waters Budget

Project duration

80.00 % funded by ERDF

### UPPER SAVA PILOT AREA (ARSO & HV)



ARSO HYDRO

HRVATSKE VODE

### DATA & CAPACITY BUILDING

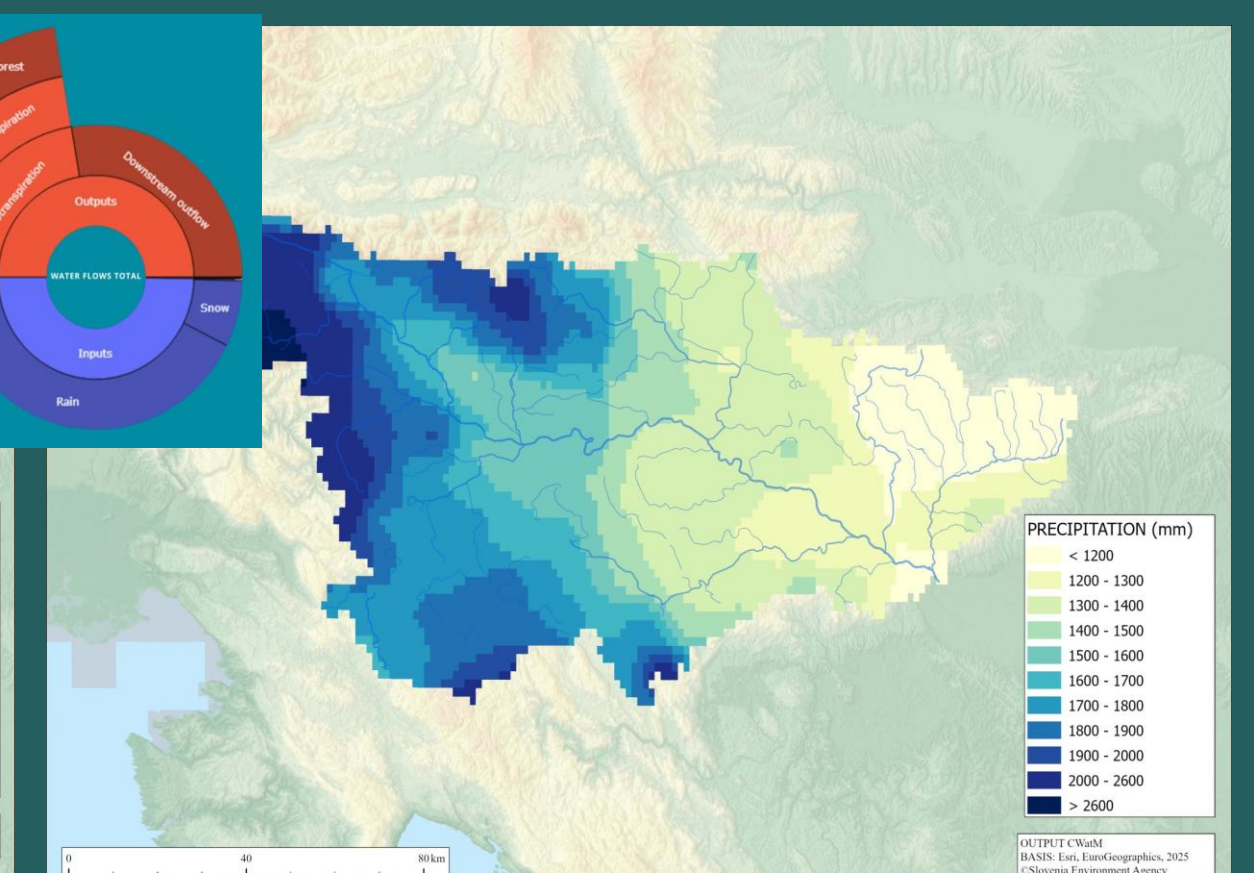
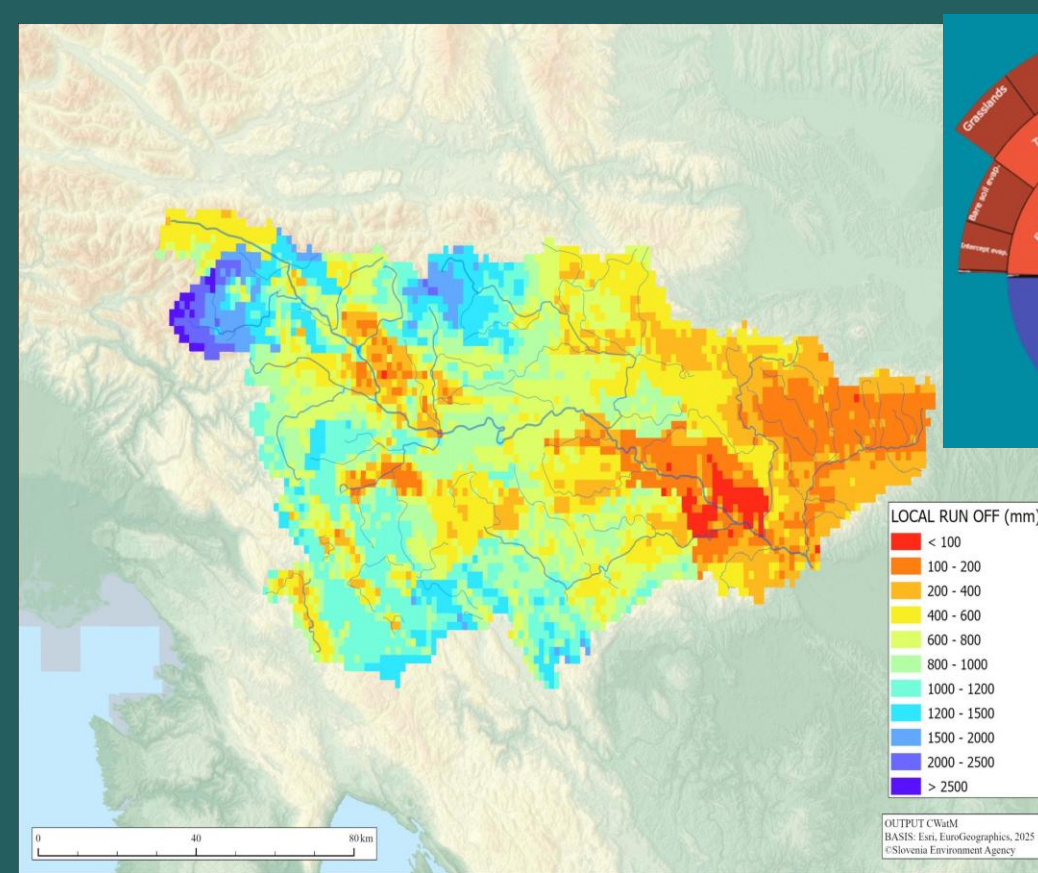
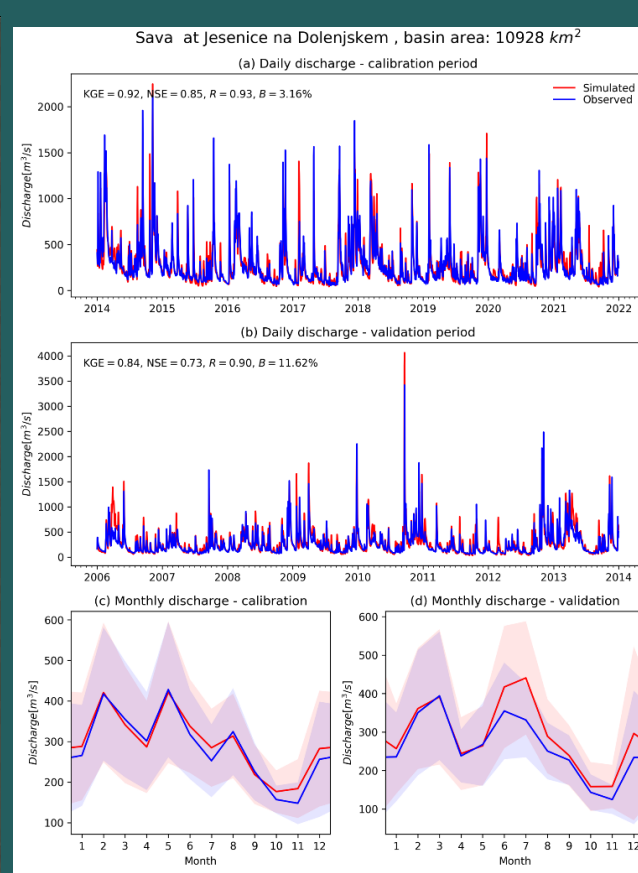
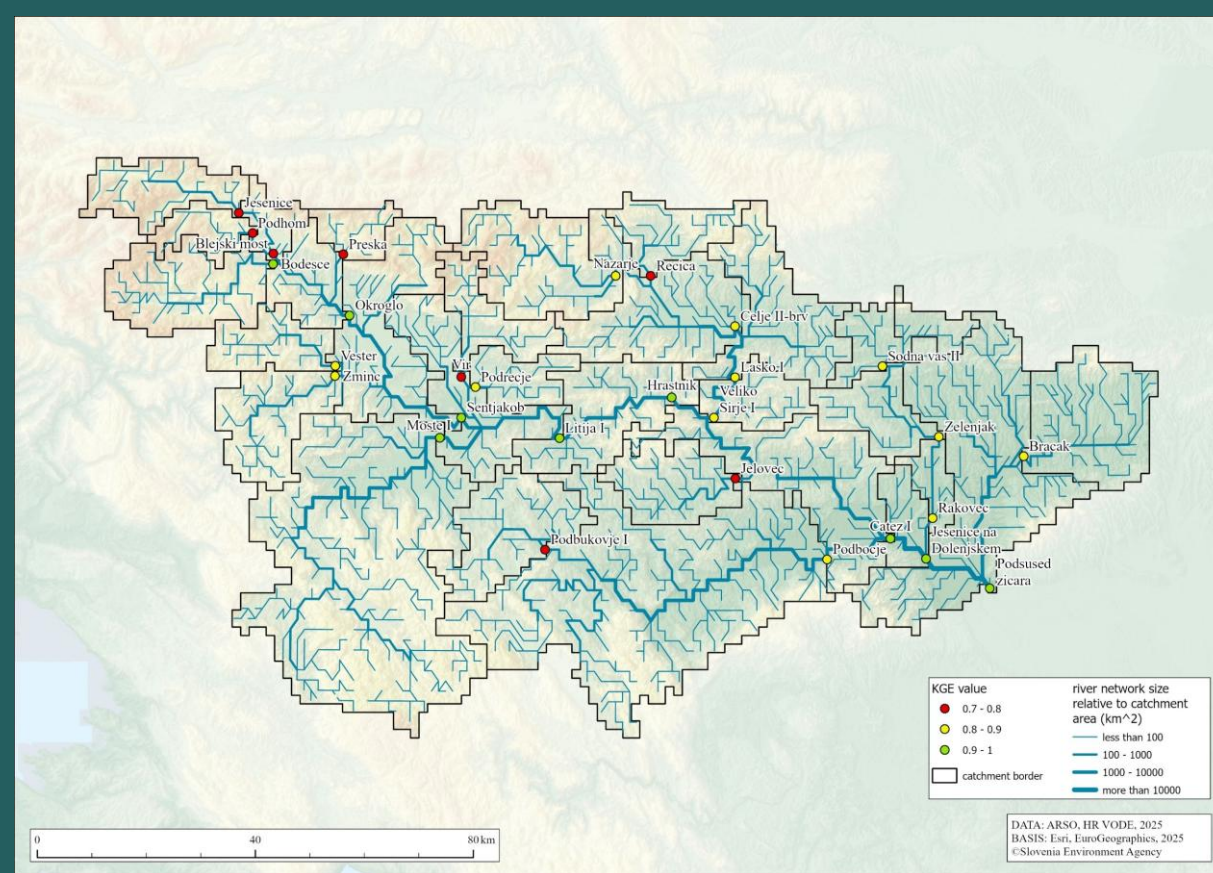
Improving data management and creating training materials

### EXPERT HUB

Establishing a network for knowledge exchange and collaboration.

### CALIBRATION TEST RESULTS

### RUN model CWatM (1991 – 2020)



### WATER BALANCE COMPONENTS SHARES

Interreg-Danube.eu

Danube Water Balance | gov.si

Danube Water Balance | voda.hr



LinkedIn Danube Water Balance  
Facebook Danube Water Balance

LinkedIn Agencija za okolje  
Facebook Slovenian Environment Agency

LinkedIn Hrvatske vode  
Facebook Croatian Waters