



**TEDEN SREDOZEMSKO OBALNE
IN MAKROREGIONALNIH
STRATEGIJ**

Izola, Slovenija
15. – 17. september 2025

**MEDITERRANEAN COAST
AND MACRO-REGIONAL
STRATEGIES WEEK**

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ISRBC- Presentation of good practice of river basin management

Dragan Zeljko - Executive Secretary
International Sava River Basin Commission

Sava River Basin

- Area: app 97.700 km²
- Length of the Sava River 945 km
- Population: app 8.1 million
- Average discharge (confluence) 1.700 m³/s

Framework Agreement on the Sava River Basin (2004)

- The Parties: SI, HR, BiH, RS
- Key objective: Transboundary cooperation for sustainable development of the region

Protocols to the FASRB

- Navigation Regime (2004)
- Flood Protection (2015)
- Prevention of Water Pollution caused by Navigation (2017)
- Sediment Management (2017)

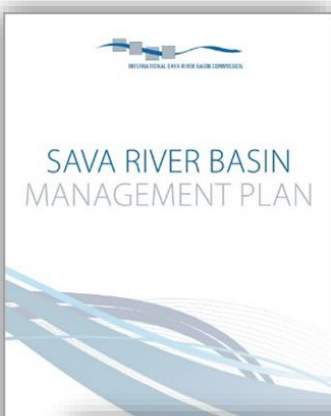
ISRBC

- The only sub-regional mechanism of water cooperation in the Danube River Basin
- Scope of work
 - water management
 - navigation





River Basin Management Planning in the frame of ISRBC



NEW SURFACE AND GROUNDWATER DELINEATION RESULTED IN **37% AND 20% INCREASE OF NUMBER OF SURFACE AND GROUNDWATER BODIES** RESPECTIVELY, ENSURING AMELIORATED BASIS FOR MORE COMPREHENSIVE ANALYSIS.



NUMBER OF AGGLOMERATIONS PE>2,000, WITH WASTE WATER TREATMENT PLANTS **INCREASED BY 40%**.

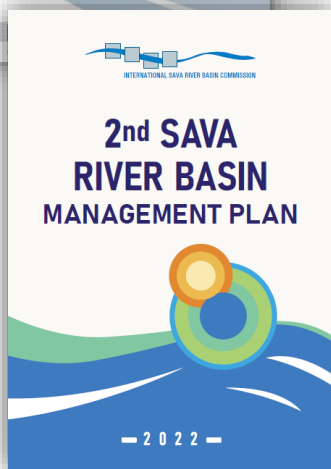


TOTAL NUTRIENT LOAD CONTRIBUTION FROM THE SAVA RIVER BASIN TO THE DANUBE RIVER **DECREASED APPROX. FOR TN AND TP BY 15%**



2015 - 2022

SHARE OF AGGLOMERATIONS PE>2,000, WITH SEWAGE SYSTEM COVERAGE >80% **INCREASED FROM 13% TO 29%**.



CALCULATED POINT SOURCES' EMISSION OF TN AND TP FROM AGGLOMERATIONS >2,000 PE IN THE BASIN **DECREASED BY 24% AND 32%, RESPECTIVELY.**

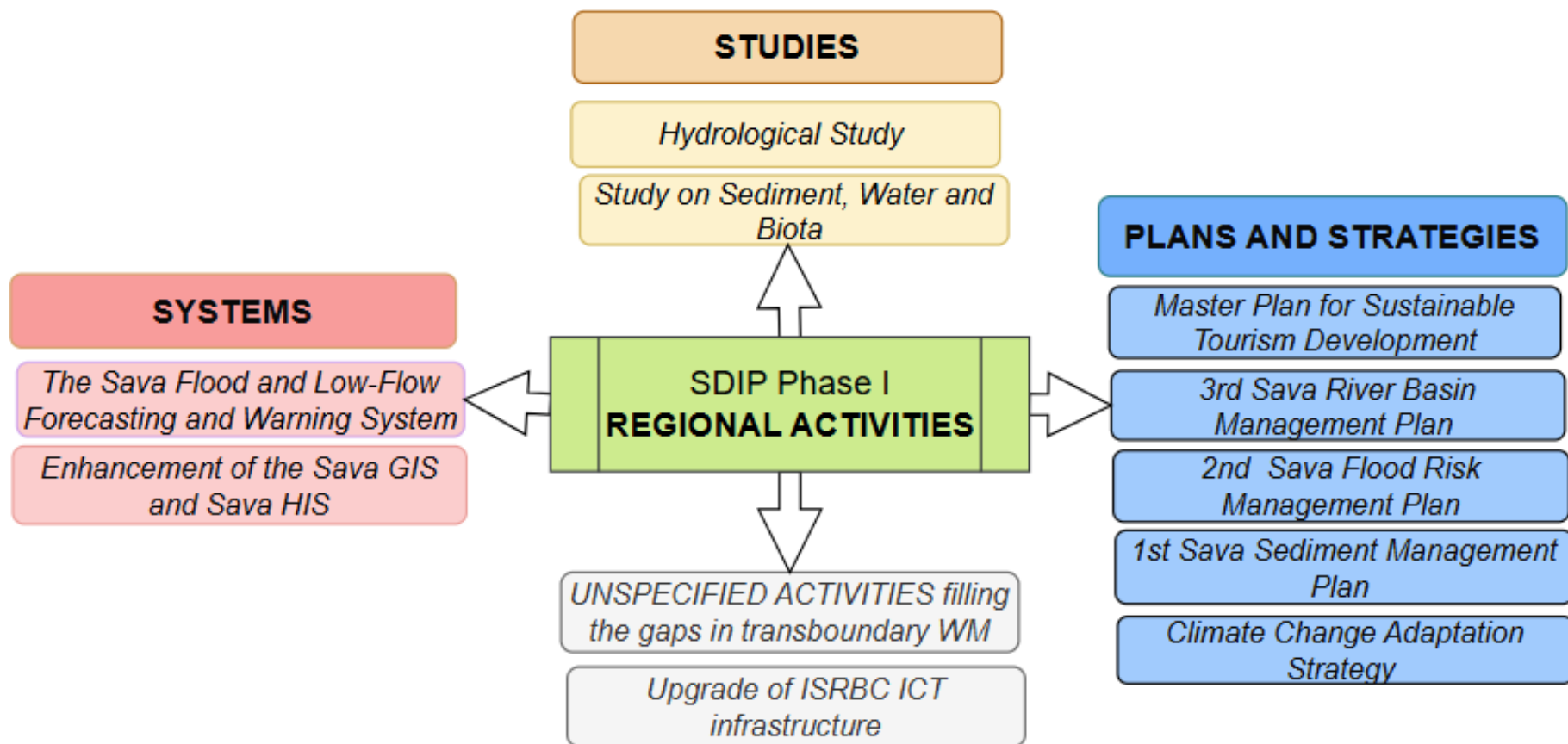


PROTECTED AREA IMPORTANT FOR BIODIVERSITY PROTECTION **INCREASED FOR MORE THAN 20%**. NUMBER OF AREAS PROTECTED IN ACCORDANCE WITH **HABITAT DIRECTIVE INCREASED BY 25% AND WITH BIRDS DIRECTIVE BY 14%**.



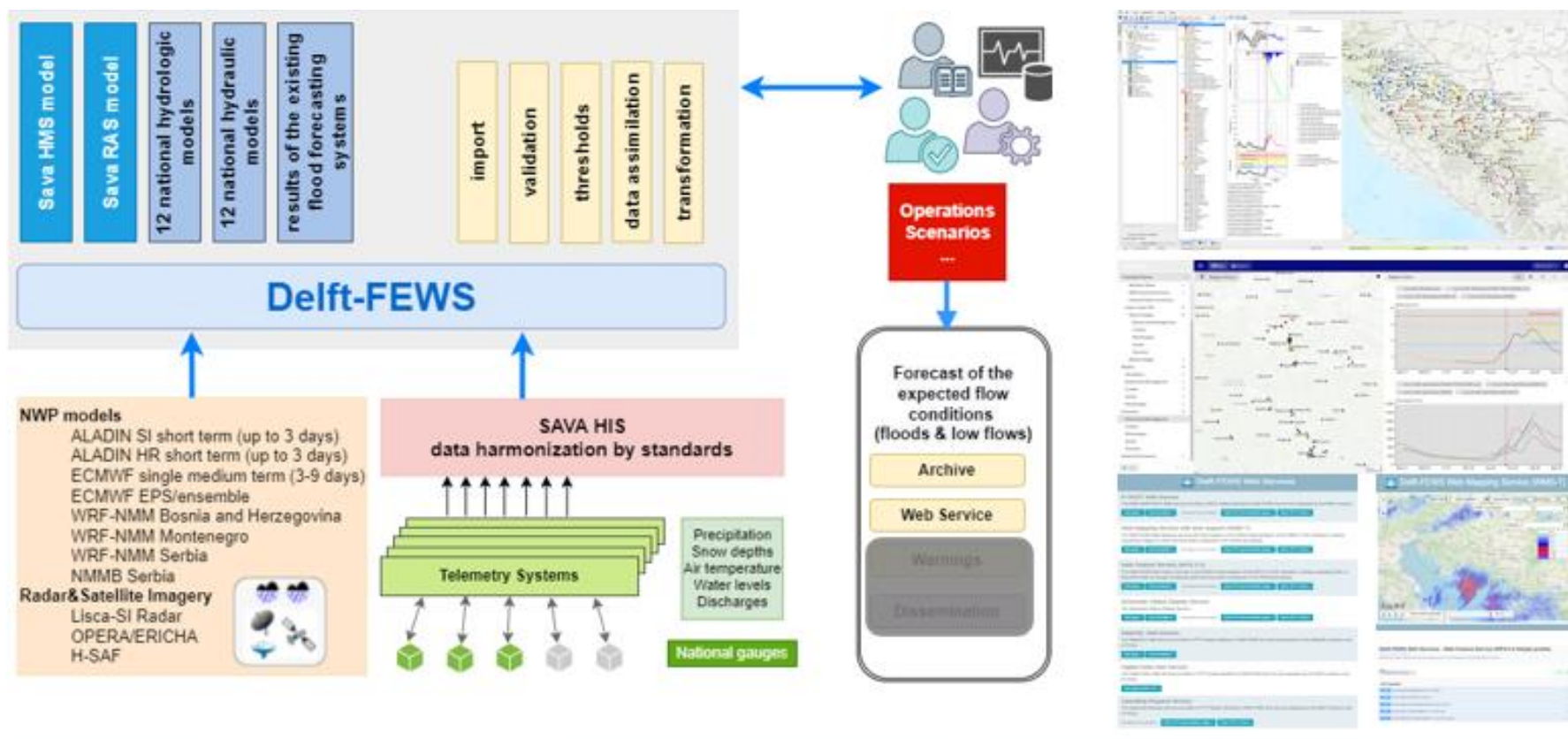
CALCULATED POINT SOURCES' EMISSION OF COD AND BOD5 DISCHARGED IN THE BASIN, FROM AGGLOMERATIONS >2,000 PE **DECREASED BY 40% AND 34%, RESPECTIVELY.**

Sava and Drina Rivers Corridors Integrated Development Program – Regional Component



Sava Flood Forecasting and Warning System

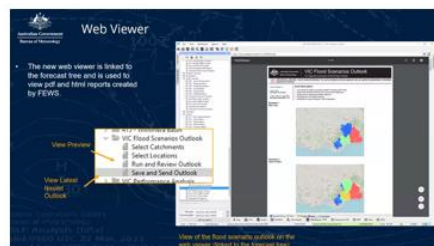
Sava FFWS 1.0





Sava FFWS 2.0

- Development of high-resolution NWP models, satellite, and radar composite images
- Improvement of the meteorological and hydrological real-time data
- Enhancement of the existing basin-wide H&H models
- Implementation of the low flow forecasting into the existing platform
- Implementation of efficient flood and low flow forecasting and warning procedures and establishment of an internal web dissemination platform



Sava FFWS must be in line with the long-term activities carried out by the WMO, specifically "Early Warnings for All" and Hydro SOS

Data Exchange - Sava GIS/HIS

- Continuous data exchange
 - 7 data providers from 5 countries
 - 310 hydrological and 220 meteorological stations
 - Water ML 2.0 standard and web services in use
 - WMO Resolutions 25 and 40



www.savahis.org





Basin-wide Studies and Plans

➤ Hydrological Study

- **Main objective:** to enhance knowledge of the water cycle components and their spatial and temporal distribution in the Sava River basin through a synopsis of different hydrological topics of special importance for a better assessment of development activities

➤ Sediment, Water and Biota Study

- **Main objective:** to make a crucial contribution to the further understanding of sediment-related issues in the Sava River basin by building the knowledge base, filling the recognized gaps, and providing state-of-the-art knowledge to support the implementation of the FASRB and its related Protocol on Sediment Management.

➤ Update of the Sava RBMP and FRMP and development of the 1st SedMP

➤ Master Plan for Sustainable Tourism Development

- **Main objective:** focus on the development of ecotourism in Ramsar sites and other protected areas (national parks, and UNESCO cultural heritage sites) in the basin, nautical tourism on the Sava River and its navigable tributaries, and cycling tourism along the Sava Corridor, in a way that balances the needs of visitors with environmental preservation.



Climate Change Adaptation Strategy

- **Current Sector Specific Climate Change Impacts**
 - **Floods:** Climate change significantly impacts floods; varies across basin geography
 - Urbanization is a major future driver of flood risk.
 - Inadequate funding and degraded systems worsen risks.
 - **Hydropower:** Direct impacts on power generation; indirect via energy demand.
 - Seasonal shifts
 - Long-term trend: reduced water availability & generation.
 - **Agriculture:** Vulnerable due to poor structures and low irrigation
 - Extreme events & rising temps lead to aridity, fires, crop/livestock stress
 - Phenological shifts may occur
 - **Navigation:** Minimal near-term low flow impact; distant future worse.
- **Main objective:** develop the CCA Strategy and Action Plan for implementation of adaptation actions focused on adaptive and flexible management approaches, with aim to enhance adaptive capacity and resilience to climate shocks in the Sava River Basin



EU Strategy for the
Adriatic and Ionian Region
EUSAIR

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**MINISTRY OF FOREIGN
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**MINISTRY OF COHESION
AND REGIONAL DEVELOPMENT**



REPUBLIC OF SLOVENIA
**MINISTRY OF NATURAL RESOURCES
AND SPATIAL PLANNING**



Občina · Comune di
IZOLA · ISOLA



Prosperity through Diversity



EUSBSR
EU STRATEGY
FOR THE BALTIC
SEA REGION



EUSALP
EU STRATEGY FOR
THE ALPINE REGION



**Primorski
Tehnološki
Park.**

