

# **Current status of implementation of the FASRB and the key challenges ahead**

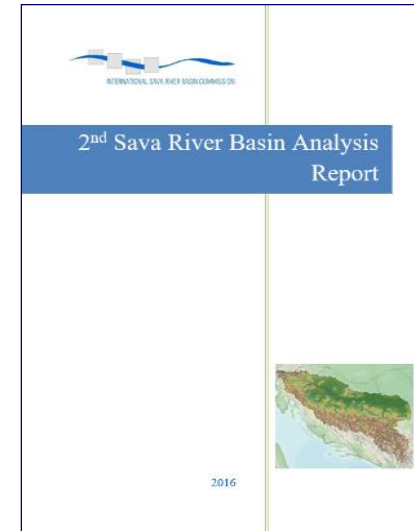
7<sup>TH</sup> MEETING OF THE PARTIES TO THE  
FRAMEWORK AGREEMENT ON THE SAVA RIVER BASIN  
Bled, 7 June 2018

**a. Report on implementation of the FASRB and  
work of the ISRBC (01 April 2016 – 31 March 2018)**

# River basin management

- **Sava 2<sup>nd</sup> RBM planning cycle**

- 2nd Sava River Basin Analysis
  - ISRBC accepted the document in June 2017
- Significant Water Management Issues
  - Includes an interim overview of implementation of measures
  - ISRBC accepted the paper in February 2018
- Outline of the 2<sup>nd</sup> Sava RBM Plan drafted



- **Sediment issues**

- Monitoring system – installed in S. Mitrovica, planned in S. Brod
- Programme for development of Sava SMP - under finalization
- Workshop on sediment management, monitoring and modelling (March, 2017)

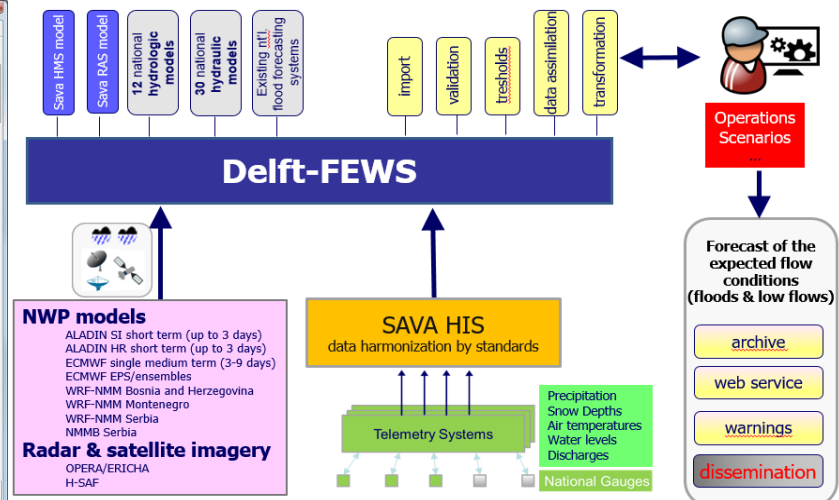
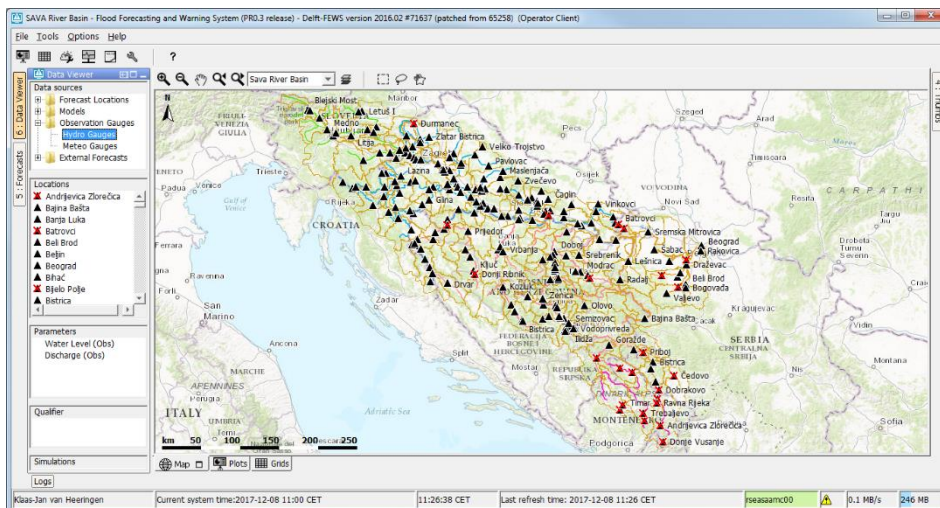
- **Accident prevention and control**

- Use and regular testing of the ICPDR's Accident Emergency Warning System

# Flood management

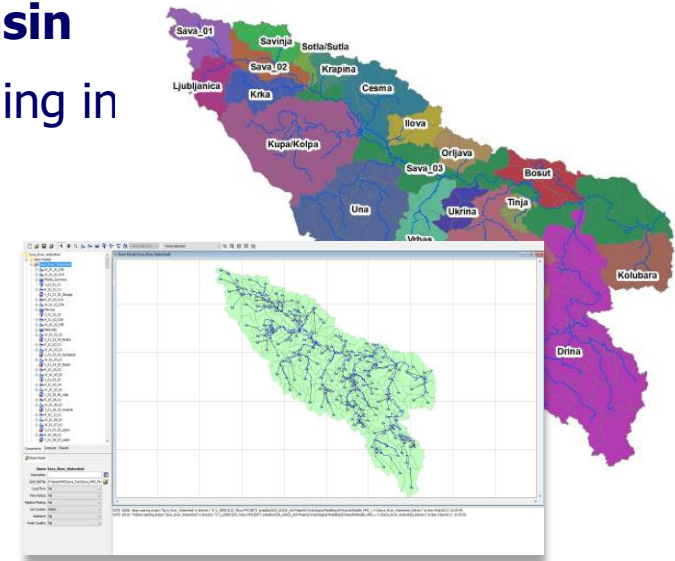
- **Sava Flood Risk Management Plan** (2017-2018)
  - Program for Development of the Sava FRMP (February 2017)
  - Kick off meeting in April 2017, first outline and first set of supporting documents in October 2017
- **Flood Forecasting & Warning System** (2016-2018)
  - Version 1.0 released in February 2018

„Improvement of joint flood management actions in the Sava river basin“

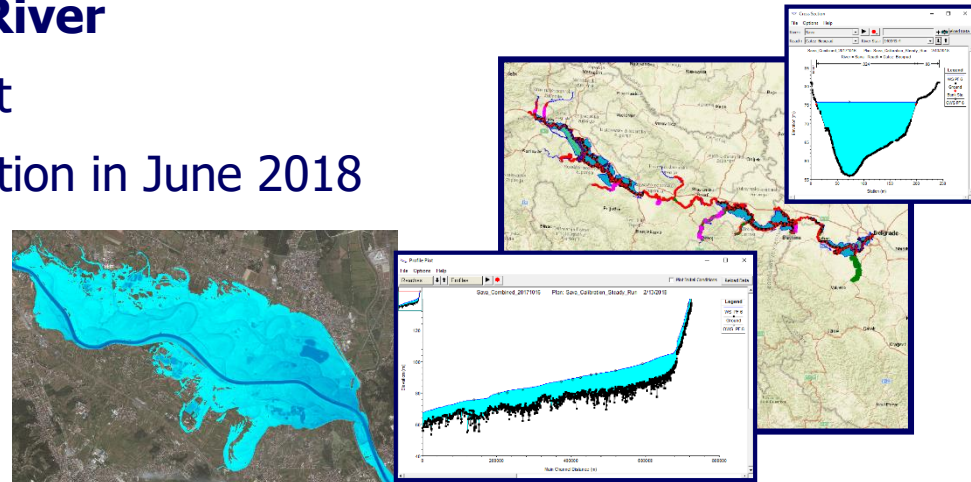


# H&H models

- **Hydrological model of the Sava River Basin**
  - Distributed to countries in Jan 2017, training in March 2017, included in Sava FFWS



- **Hydraulic model of the Sava River**
  - LiDAR products, IT equipment
  - Training in May 2018, finalization in June 2018



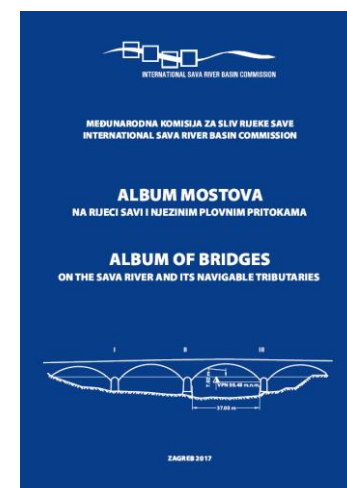
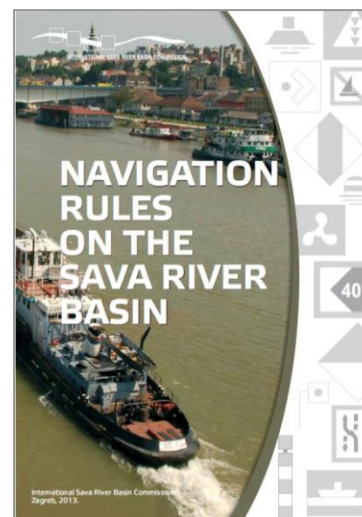
**Both models integrated into Sava FFWS**

# Integrated water management summary



- Implementation of the PoM of the first Sava RBMP;
- Continuation of the activities of the 2<sup>nd</sup> RBM planning cycle – 2nd Sava RB Analysis and SWMI paper;
- Advances related to the issues of sediment management, including capacity building and establishment of a sediment monitoring system;
- Improvement of the existing AEWS by training, testing and capacity building of the existing responsible structures in the Parties (PIACs)
- Activities leading to finalization of the first Sava FRM Plan;
- Development of a coordinated Sava FFWS;
- Finalizing of hydrologic model for the entire Sava River Basin and hydraulic model for the Sava River and its main tributaries and related transfer of knowledge to the national authorities.

- **Technical standards and safety of navigation**
  - Unification of rules
  - RIS implementation
  - Waterway marking
- **Waterway rehabilitation**
  - Regulation of the sectors  
Novi Grad (HR, BA), Kamičak (RS)



# Navigation summary

- Restart of the activities on the rehabilitation and the development of the Sava River Waterway;
- Fully operational RIS on the international part of the Sava River Waterway;
- High level of harmonization and further development and upgrade of set of rules related to navigation through implementation or direct application of ISRBC rules in all Parties;
- Development and implementation of the web application for the safety inspection;
- Publishing of the second, updated edition of Album of Bridges including the sector of the Sava River upstream of Sisak (up to the Slovenian-Croatian border).



# Data and information exchange

- **Sava GIS** ([www.savagis.org](http://www.savagis.org)) and **Sava HIS** - [www.savahis.org](http://www.savahis.org)
  - RBM, FRM and HMI related data available
  - On-line information on *suspended sediment* added
  - NAV module planned

## Data hub for Flood Forecasting and Warning System (FFWS)



### POLICY ON THE EXCHANGE OF HYDROLOGICAL AND METEOROLOGICAL DATA AND INFORMATION IN THE SAVA RIVER BASIN

State	Data Provider	Hydro (real-time data)		Meteo (real-time data)	
		Data Policy	Sava HIS	Data Policy	Sava HIS
Bosnia and Herzegovina	FHMZFBH	2	3 (3)	12	20 (20)
	AVPSAVA	21 (8)	39 (16)	-	10 (10)
	RHMZRS	11 (1)	31 (18)	16	16 (16)
Croatia	DHMZ	22 (13)	130 (125)	11	49 (42)
Montenegro	ZHMS	2	11 (11)	3	5 (5)
Serbia	RHMZ	18 (13)	25 (19)	6	12 (10)
Slovenia	ARSO	17 (13)	31 (26)	5	76 (76)
Total		93 (48)	270 (218)	53	188 (179)

# Data and information exchange summary

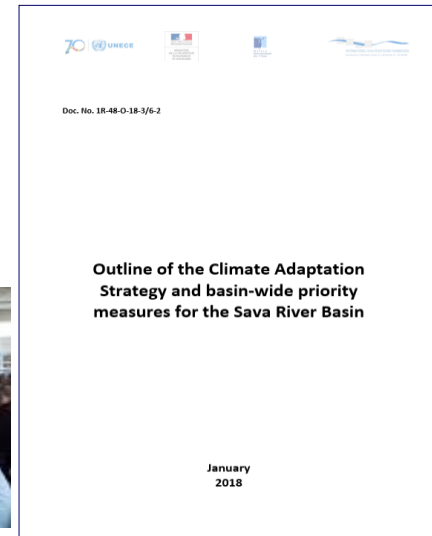


INTERNATIONAL SAVA RIVER BASIN COMMISSION

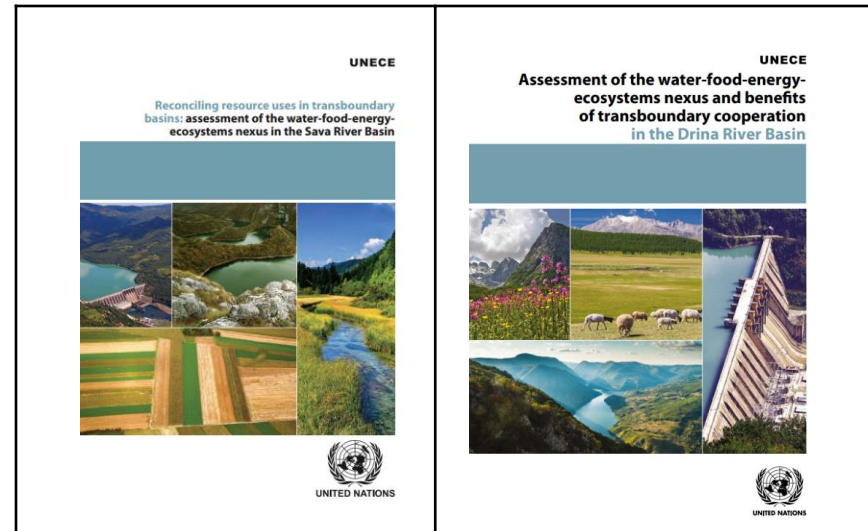
- Enhancement and upgrade of Sava GIS - advanced control and configuration rules for access rights, better administration and the safety of the Geoportal;
- Further population of the Sava geodatabase with data related to RBM and FRM;
- Full functionality of Sava HIS, its major upgrade and incorporation into the common Sava FFWS;
- Start of the activities aiming to development of the sediment management, accident prevention and navigation modules of the Sava GIS;
- Further supporting the implementation of *Policy for the Exchange of Hydrological and Meteorological Information within the Sava River Basin.*

# Cross-cutting issues

- **Adaptation to Climate Change**
  - Outline of CC Adaptation Strategy

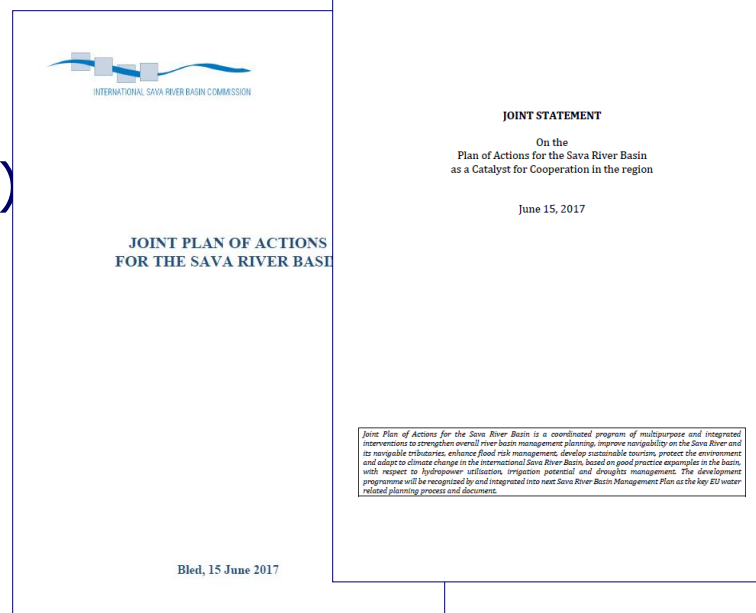


- **Nexuses Sava and Drina**



# Development issues

- **Joint statement** on regional cooperation on development of **sustainable tourism** in the Sava River Basin (Bled, June 15 2017)
  - Task group for sustainable tourism established (first meeting held on Dec 08 2017)
- **Joint Plan of Action** (Bled, June 15 2017)
  - Milestone for integrated river basin management and socioeconomic development in the region



- **Amendments to the FASRB**

- *national procedures necessary for launching the official negotiations on the draft Amendments to the FASRB in progress*

- **Status of protocols to the FASRB**

Protocol on	Signed	In force since
<b>Navigation Regime</b>	Kranjska Gora, December 3, 2002	December 29, 2004
<b>Prevention of Water Pollution caused by Navigation</b>	Beograd, June 1, 2009	October 8, 2017
<b>Flood Protection</b>	Gradiška, June 1, 2010	November 27, 2015
<b>Sediment Management</b>	Brčko, July 6, 2015	October 8, 2017
<b>Emergency Situations</b>	Final harmonization is expected in 2018	
<b>Transboundary Impact</b>	Draft under reconsideration	

# Cooperation, promotion and stakeholder involvement

- **Wide range** of stakeholders
- **Web site, consultation workshops and meetings** with stakeholders
- **Sava Water Council (Sevnica, June 2016)**
- **Sava Day 2016 and 2017**
  - Bled Water Festival
  - National events: i.e. „Our beautiful Sava” and „Mojareka.si,”
- **Youth Parliament**
  - **5<sup>th</sup> Youth Parliament (Lonjsko Polje)**  
*„Living with floods”*
  - **6<sup>th</sup> Youth Parliament (Belgrade)**  
*„Impact of Climate Change on the life in the Sava RB”*
    - web page: <http://sava-youthparliament.com/>
    - Facebook: <https://www.facebook.com/SavaYouth/>



## **b. Looking at the key challenges ahead**



# Priorities

- Continuing efforts to implement the poM that is an integral part of the first Sava RBM Plan, in order to achieve the commonly agreed environmental objectives and visions on a basin-wide scale,
- Preparation of the 2<sup>nd</sup> Sava RBM Plan,
- Finalization and adoption of the first Sava FRM Plan,
- Establishment of the Sava FFWS and securing its post-project functioning,
- Ensuring the continuous operation (24/7) of AEWS Principal International Alert Centers,
- Securing a proper functioning and maintenance of the Sava GIS and Sava HIS as well as their further upgrade in line with all other objectives and areas of cooperation of the FASRB,
- Implementing the Protocol on Sediment Management and Protocol on prevention of pollution caused by navigation,



# Priorities

- Continuation of efforts in rehabilitation and development of navigation on the Sava River and its navigable tributaries in line with the principles of the *"Joint Statement on Guiding Principles on the Development of Inland Navigation and Environmental Protection in the Danube River Basin"*,
- Work on the standards related to navigation, in line with the latest EU advances in the field,
- Climate Change Adaptation Strategy for the Sava River Basin,
- Sustainable development issues (tourism...),
- Reaching an agreement on possible amendments to FASRB and final harmonization and signing of Protocol on Emergency Situations to FASRB,
- Preparation of the new Strategy on implementation of the FASRB

Thank you for your attention