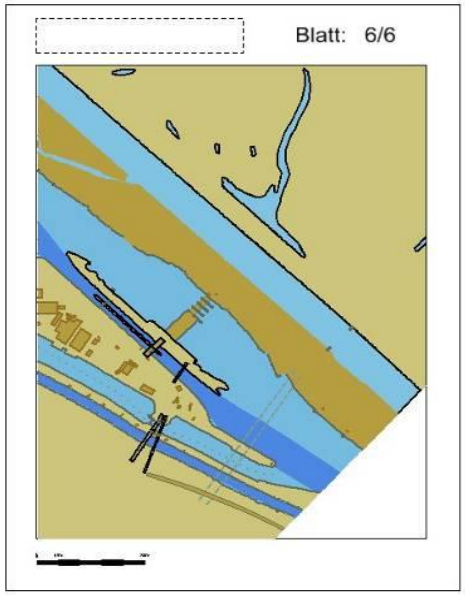
INTERNATIONAL SAVA RIVER BASIN COMMISSION

Sava Commission Activities



DANUBE SKILLS KICK OFF EVENT, February 21, 2017, Bucharest

Establishment of the ISRBC

- **Decay of SFRY – a challenge to WRM in the Sava river basin**
  - Sava river used to be the biggest **national river** of former SFRY
  - Activities related to WRM in the SRB were regulated by **national regulation, plans and programs**
  - Appropriate institutional framework for implementation of water policy in the SRB existed **until decay of SFRY**
  - Upon establishment of independent countries in the basin, Sava River was turned into **international river**
  - **New, international framework required** for exploitation, protection and control of the Sava river, i.e. for **the TWRM**

- **From different priorities to Integrated TWRM approach**
  - Rehabilitation and development of **navigation**
  - **Flood protection**
  - Utilization of potentials for **tourism development**
  - Utilization of potentials for **energy production**
  - Maintenance of **water quality and quantity**

FRAMEWORK AGREEMENT ON THE SAVA RIVER BASIN

- **The first development-oriented multilateral agreement** in the region signed after the Dayton Peace Agreement (1995)
- **Parties:**
  - **Bosnia & Herzegovina**
  - **Croatia**
  - **Serbia** (formerly FR Yugoslavia, Serbia & Montenegro)
  - **Slovenia**

  (**Montenegro** – ongoing contacts on their possible approach)
- Implementation coordinated by the **ISRBC**, with the **Secretariat** as its executive and administrative body

- **Key objective:**

  Transboundary cooperation
  for **sustainable development** of the region

- **Particular objectives – to establish:**
  - International regime of **navigation**
  - Sustainable **water management**
  - Sustainable **management of hazards** (floods, droughts, accidents, etc.)

- Provides the ISRBC with **the broadest scope of work** among European basin organizations (i.e. river/lake commissions)

- **General info (cont.)**
  - Given the international **legal capacity**, for:
    - Making **decisions** in the field of **Navigation**
    - Providing **recommendations** in all other fields, i.e. **Water Protection and Hazard Management**
  - **Decisions and recommendations** are adopted by unanimous vote
    - On **sessions**
    - In **written procedure** (in urgent cases)

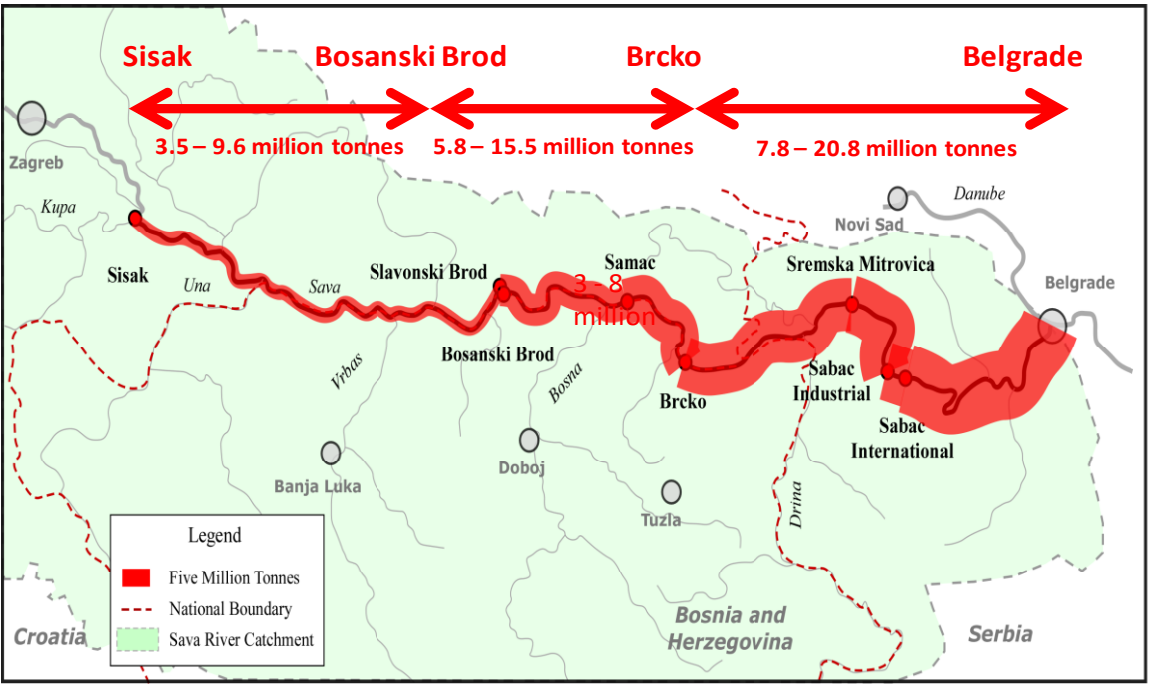
- **Coordination of:**
  - Development of **joint / integrated plans** for the SRB
    - River Basin Management Plan (according to EU WFD)
    - Flood Risk Management Plan (according to EU Flood Directive)
  - Establishment of **integrated systems** for the SRB
    - GIS (according to EU INSPIRE Directive and WISE)
    - RIS (according to EU RIS Directive)
    - Meteorological and Hydrological Data Exchange System
    - Flood Forecasting and Warning System
    - Accident Emergency Warning System (use of the ICDPR's system)
  - Preparation of **development programs** for the SRB
    - Navigation
    - (River) Tourism
    - Other water uses

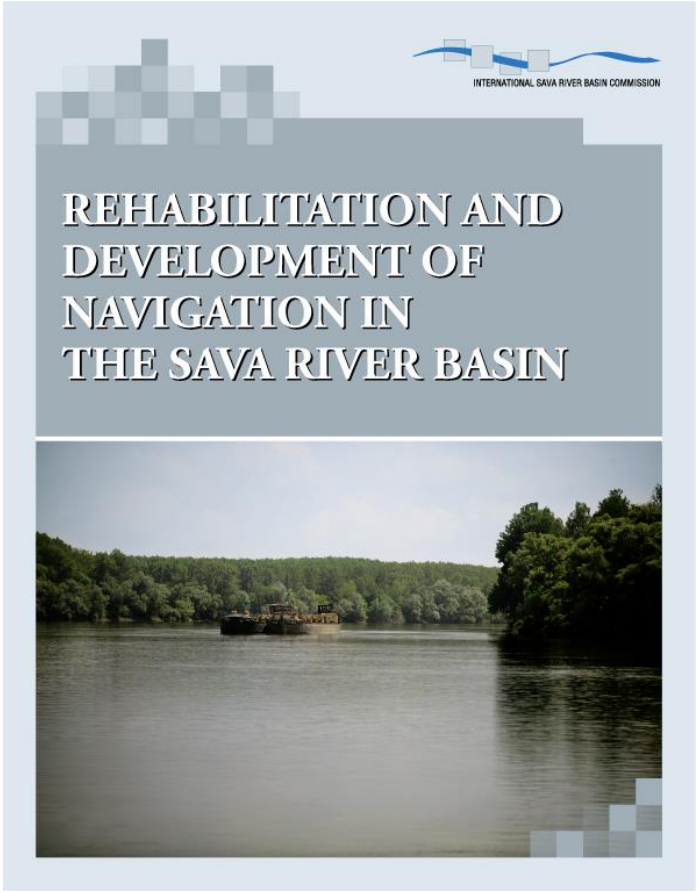
- **Coordination of (cont.):**
  - Harmonization of **regulations**
  - Creation of additional **protocols to the FASRB**
    - Navigation regime
    - Prevention of water pollution caused by navigation
    - Flood protection
    - Emergency situations
    - Sediment management
    - Transboundary impacts
- **Cooperation / stakeholder involvement / public participation**

(Performed according to the **Strategy**, **Action Plan** and **Work Plans**)

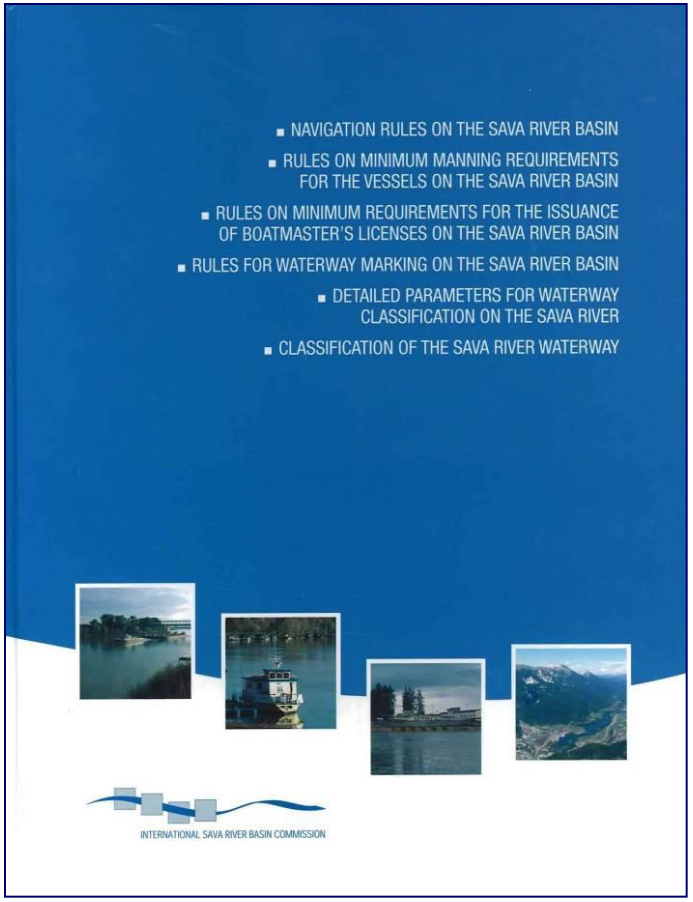
Navigation development

- **Rehabilitation of the waterway infrastructure**
  - **Planning phase** under finalization (studies, design)
  - **Waterway marking system** restoration





- **Improvement of navigation safety and technical standards** (reduction of the risk of water pollution due to navigation)
  - **Rules** harmonized with the EU and UNECE regulation
  - Protocol on **Prevention of Water Pollution caused by Navigation** to the FASRB
  - Development of **RIS**



RIS PROJECT

- **In September, 2009 ISRBC launched a project called *"Detailed Design and Prototype Installation for the RIS on the Sava River"***
- **Final Report adopted 24.06.2010.**
- **Final Report presented and delivered to the Sava countries for the implementation.**

Follow up to the RIS Project

Implementation:

- Finished in Serbia
- Finished in Croatia

Web Application for the Waterway Marking

Current marking plan

SAVA

RIGHT BANK	Distance rkm	LEFT BANK	RIGHT BANK	Distance rkm	LEFT BANK
km	594.0			583.3	
km	593.0		km	583.0	
	592.0	km	km	582.0	
	591.1			582.0	
km	591.0			581.6	
	590.0	km		581.4	
	589.0	km		581.1	
km	588.0		km	581.0	
	587.8			580.7	
km	587.0			580.0	km

River sectors

Sava (9)

Add new | Save

ID	Channel	Country	Side	Start	End	Length	Shaft fairway
1	0.001-210.8 rkm	Srbija	Left	0.001	210.8	210.8	
2	0.01-178 rkm	Srbija	Right	0.01	178	178	
4	178.01-343 rkm	Bosna i Hercegovina	Right	178.01	343	165	
3	210.81-343 rkm	Hrvatska	Left	210.81	343	132.2	
5	343.01-467.99 rkm	Hrvatska	Left	343.01	467.99	125	
6	343.01-467.99 rkm	Bosna i Hercegovina	Right	343.01	467.99	125	
7	468-594 rkm	Hrvatska	Left	468	594	136	
8	468-515.3 rkm	Bosna i Hercegovina	Right	468	515.3	47.3	
9	515.31-594 rkm	Hrvatska	Right	515.31	594	78.7	

Kupa (2)

Add new | Save

ID	Channel	Country	Side	Start	End	Length	Shaft fairway
10	0.01-5.4 rkm	Hrvatska	Left	0.01	5.4	5.4	
11	0.01-5.4 rkm	Hrvatska	Right	0.01	5.4	5.4	

Summary of marks (for the whole WW)

Sava	rkm 594.0 - rkm 0.0
Type of sign	**Sum**
Signs for waterway marking (Prohibitory, mandatory, restrictive, recommendatory, informative signs)	266
Buoyage of Fairway limits in the waterway (buoys with light, buoys without light, floats and spars)	90
Marks on land indicating the position of the Fairway (with light and without light)	86
Signs for marking danger points and obstacles (on the water, banks, with lights and without lights)	9
Additional marking for navigation by radar (radar reflectors on the bridge piers)	0
Signs on the water for marking broad waterways and lakes	0
Extraordinary signs (kilometer signs)	600
∑	**1051**

Web Application for Navigation Safety Inspection

Inspection Report

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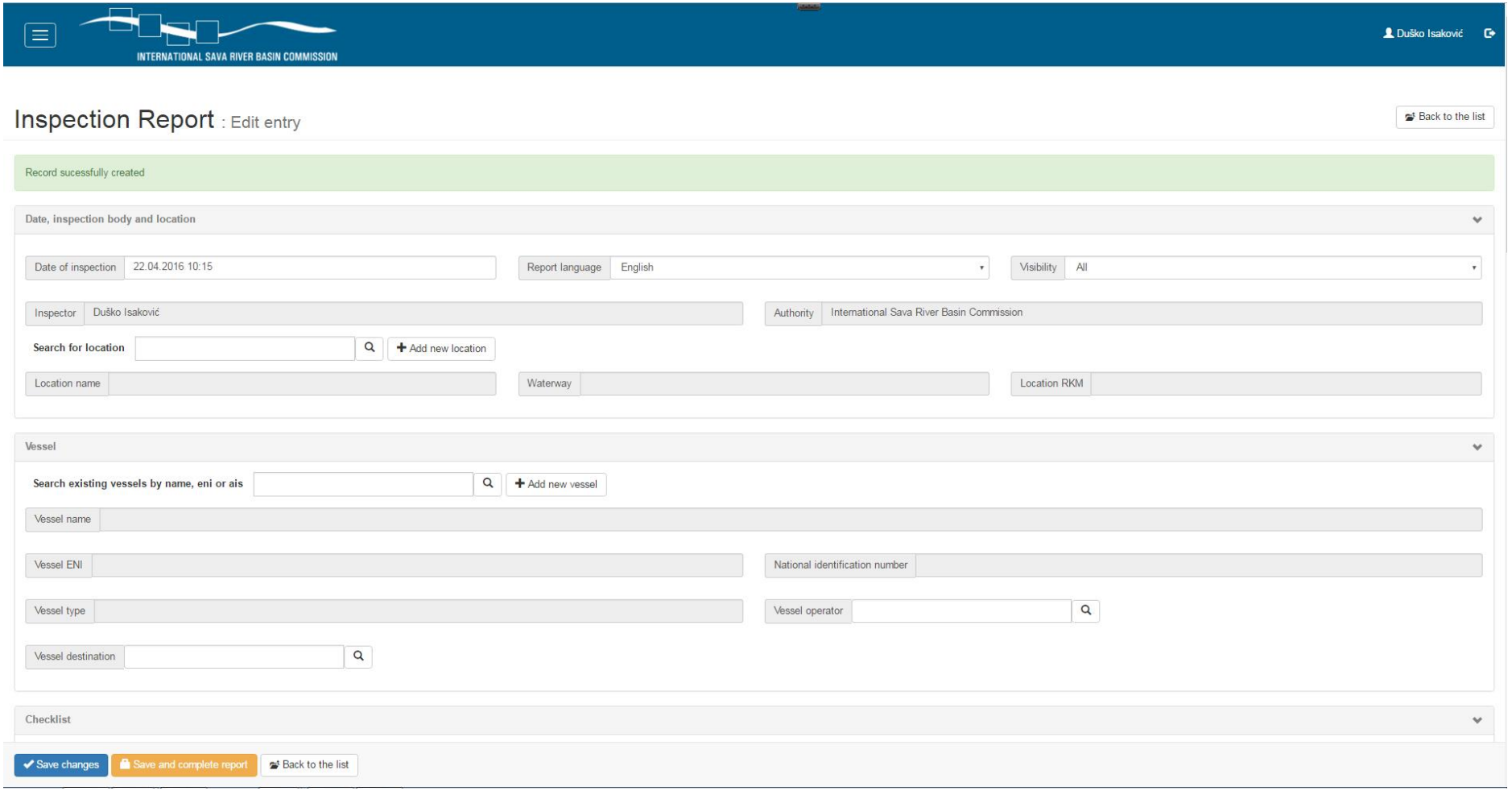
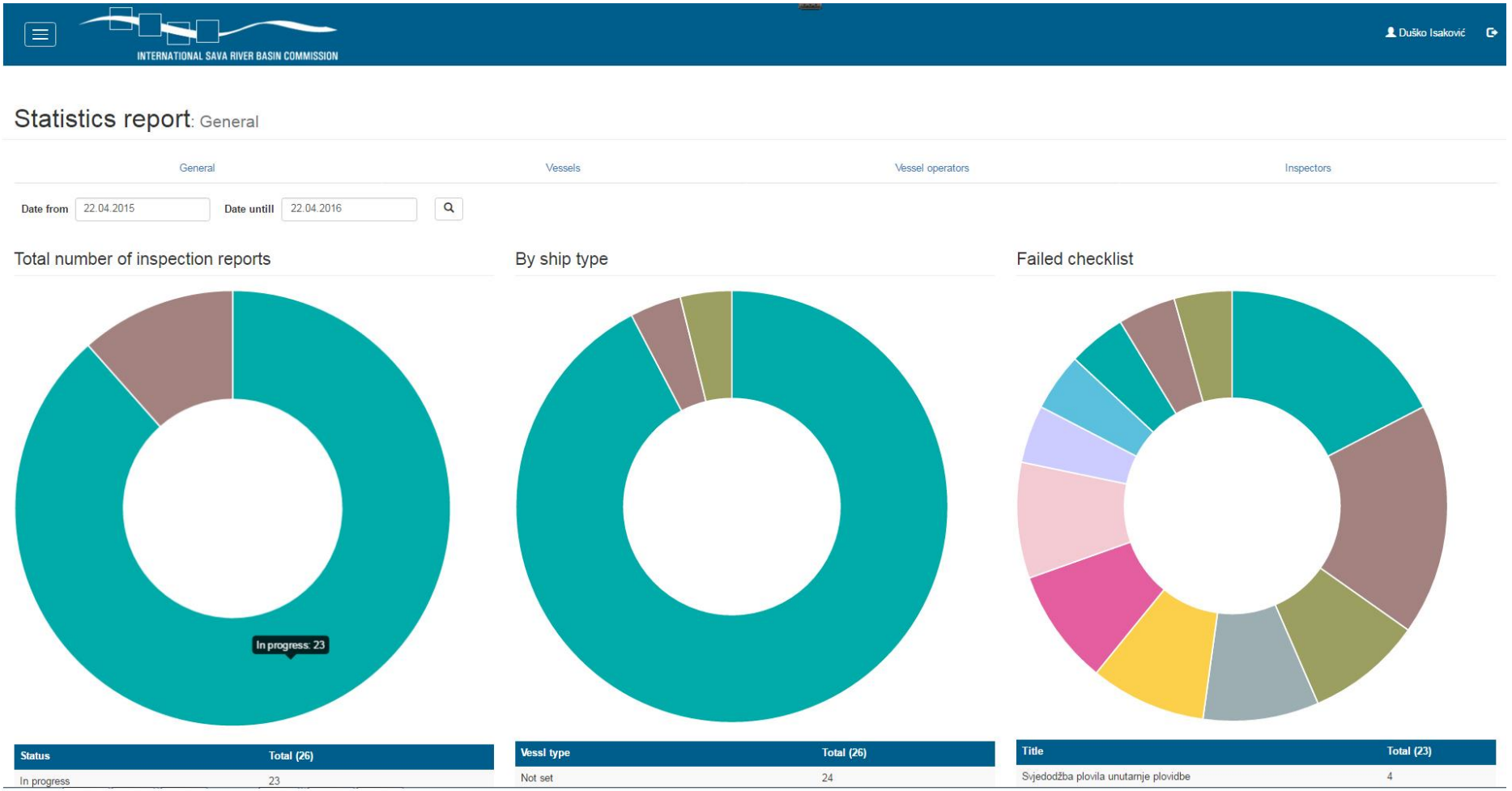


Statistics Report

INTERNATIONAL SAVA RIVER BASIN COMMISSION



Geographical & Hydrological Information System

of the Sava River Basin

Sava GIS & Sava HIS

Sava Geographical Information System

INTERNATIONAL SAVA RIVER BASIN COMMISSION

- **Overall objectives**
  - common platform of **the ISRBC community** to enable sharing and disseminating of information and knowledge about protection of the water resources and water management activities in the Sava River Basin
  - support to **the ISRBC community** in sharing and disseminating of hydrologic and meteorological data, information and knowledge about the water resources in the Sava River basin
  - enable an **effective common channel** for exchanging and viewing the hydrologic and meteorological data and information in emergency situations, primarily those related to flood events

According to ***Implementing Documents for Establishment of the Sava GIS*** – 2010, establishment of the Sava GIS is focused in following benefit areas:

Modules

1. Int. River Basin Management

2. Flood Management

3. Accident Prevention and Control

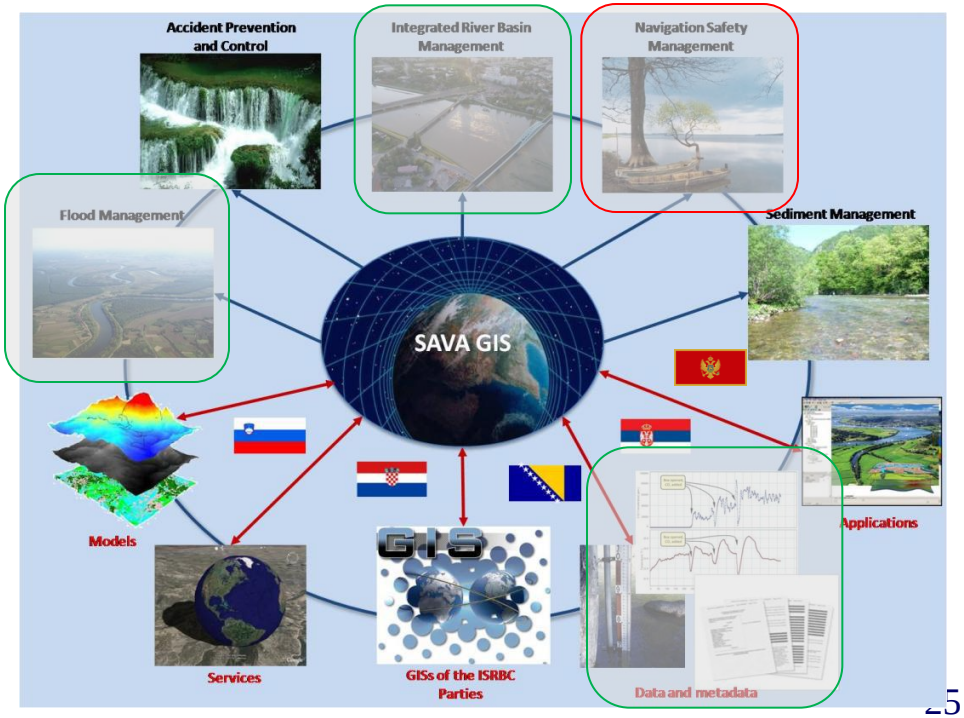
4. Navigation Safety Management

5. Sediment Management

Submodules

Time-Series Data Management

Metadata Management

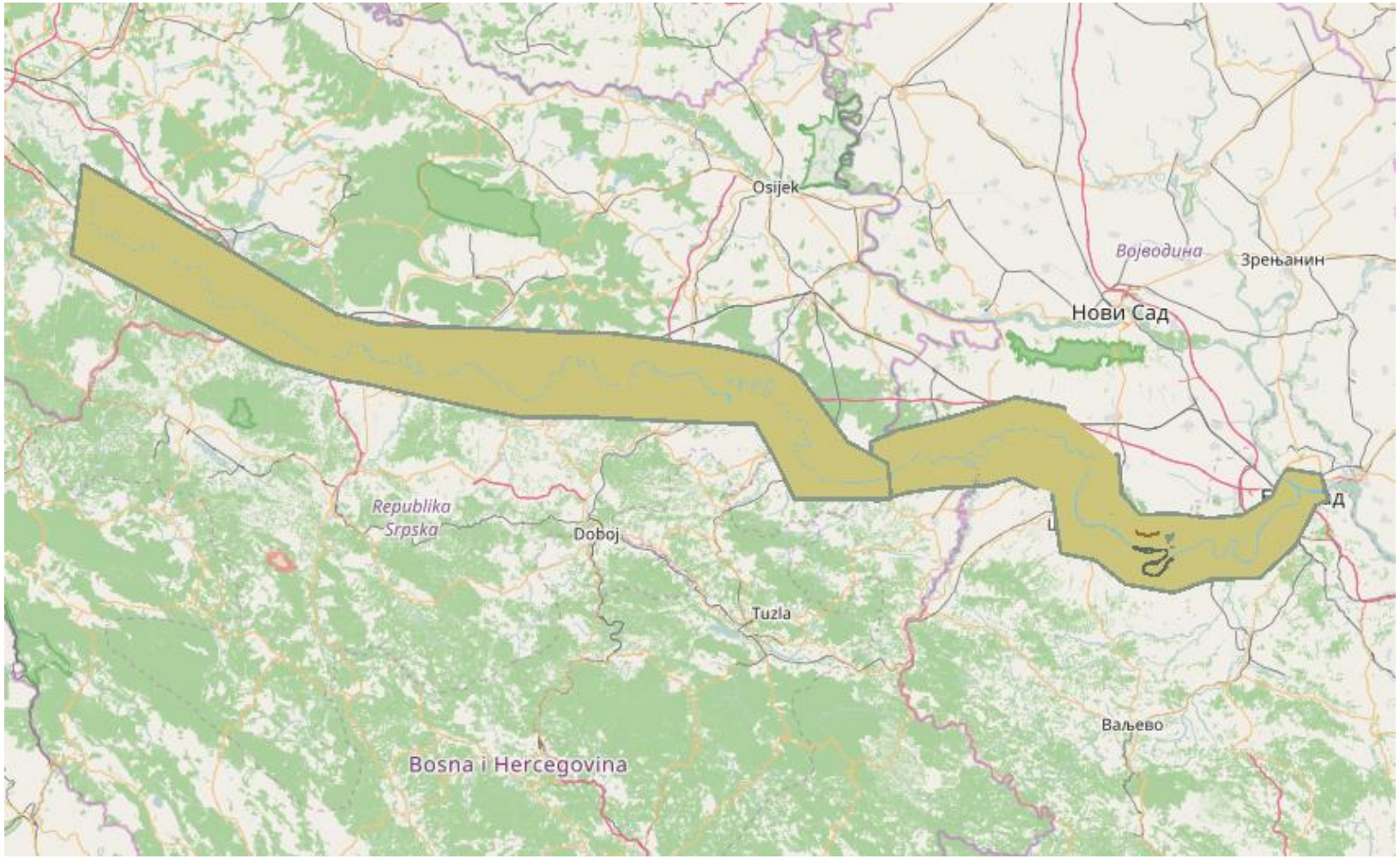


New Pilot System

Launched by ISRBC and Kentron Technologies SRL

- ***Fairway Information Services,***
- ***WEB mapping,***
- ***GIS information on the Sava River and region***

ENCs


Osijek
Војводина
Зрењанин
Нови Сад
Republika Srpska
Doboj
Tuzla
Ваљево
Bosna i Hercegovina


Thank you for your attention!!!
Duško Isaković
ISRBC