

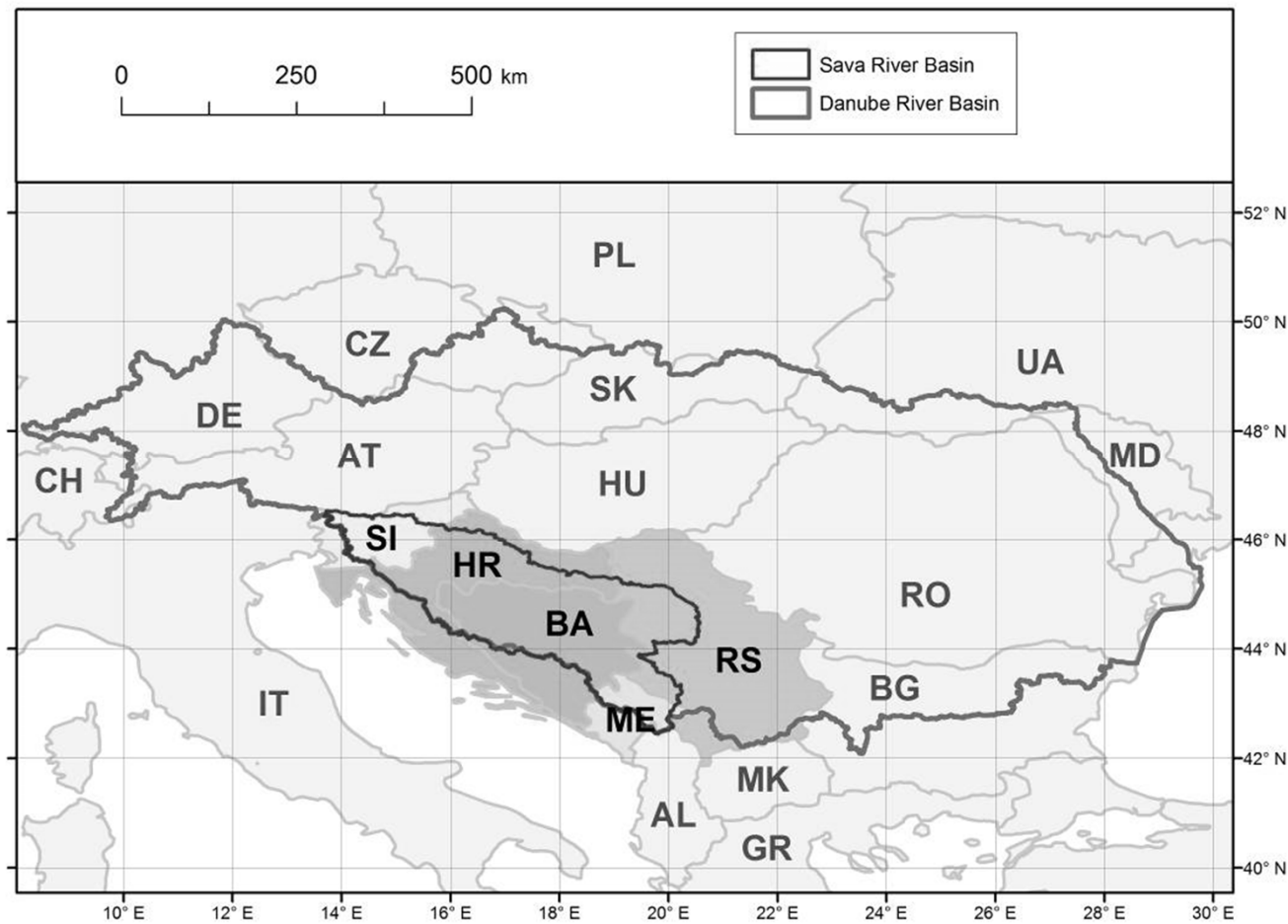
Regional Cooperation on Flood Management in the Sava River Basin

„Water management in South East Europe“
SEE Forum in the frame of the WATER BERLIN INTERNATIONAL

Berlin, 26 March 2015

Dr Dejan Komatina,
Secretary, ISRBC

Sava river basin



Legal framework

- **Framework Agreement on the Sava River Basin – FASRB**
(the first development-oriented multilateral agreement in the region)

- **Key objective:**

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

- **All aspects of water resources management** integrated
(protection + development)
- Implementation coordinated by the **ISRBC**
(4 member countries + Montenegro)

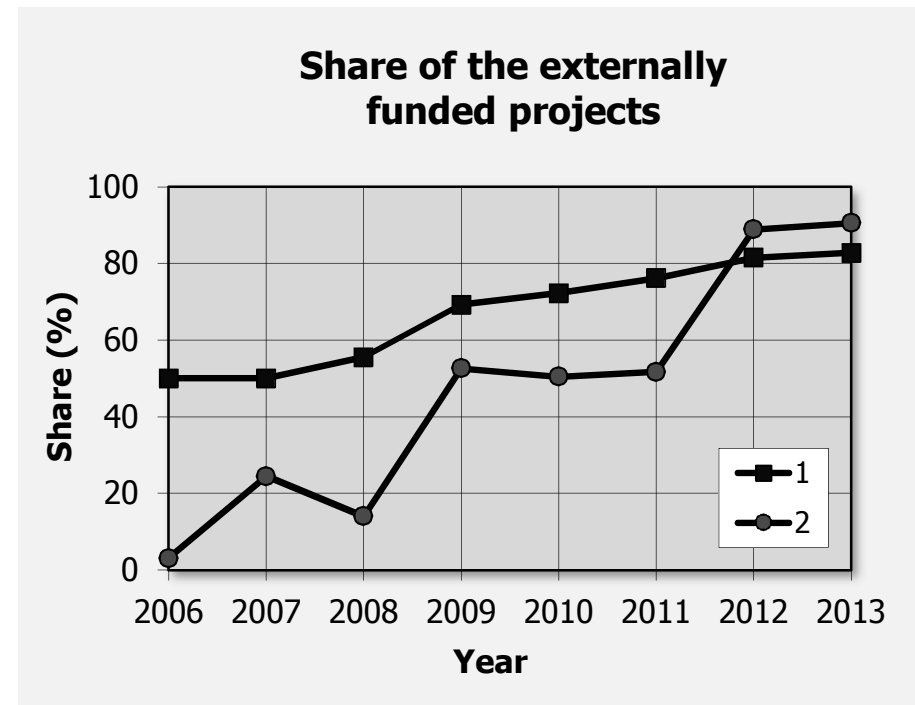
Scope of cooperation

- **Management plans**
(river basin, sediment, flood risk, climate change adaptation)
- **Integrated systems**
(information, forecasting, warning)
- **Economic activities**
(navigation, river tourism)
- Harmonization of **regulation**
(national → EU)
- **Protocols** to the FASRB
(e.g. flood protection)



Projects

- **Agreed** by all countries
- **Direct** benefits
 - **Preparation and/or implementation** of projects
 - **Raising funds** from external sources (~ 90%)
- **Indirect** benefits
 - **Facilitation of fund-raising** for the countries
 - **Lower costs** for the countries in case of joint ventures



1 – Share in terms of the projects' **number**

2 – Share in terms of the projects' **budget**

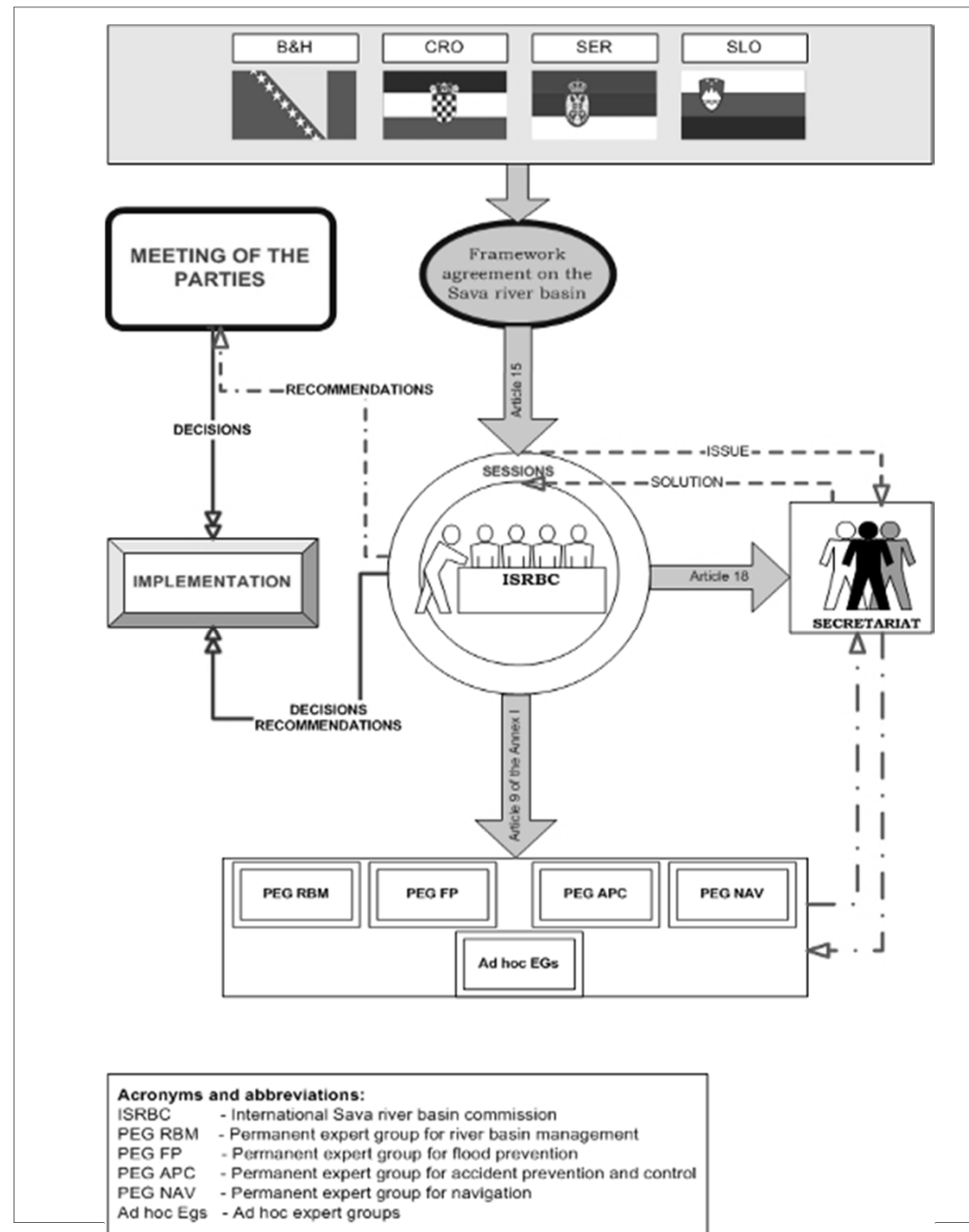
Mechanism

• Stakeholders

- **Wide range** horizontally (ministries, water agencies, NHMSs, etc.)
- **All sectors** of society
- **Levels of participation**
 - Provision of information
 - Consultation
 - Active involvement

• Int'l community

- UNECE and EU regulation
- ICPDR and DC (MoUs)



Flood management

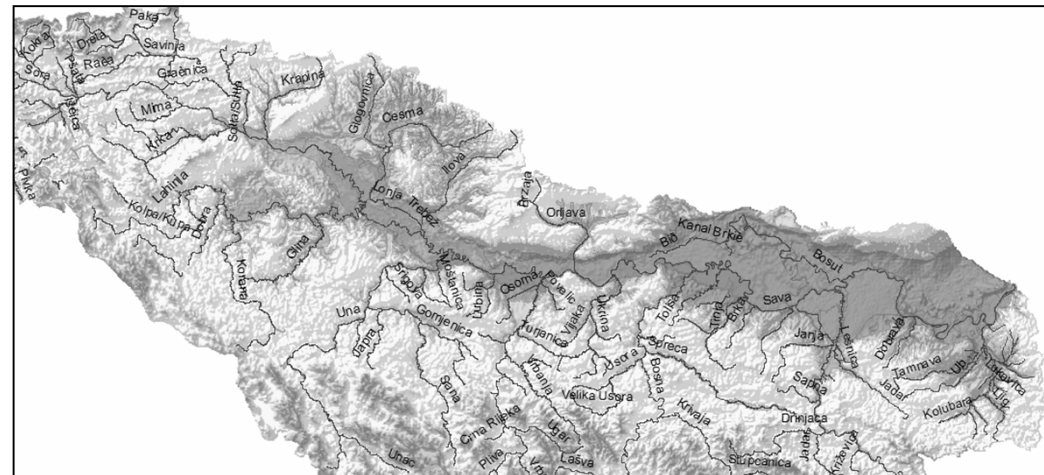
- **Main objective:**

**Prevent or limit floods,
and reduce and eliminate adverse consequences**



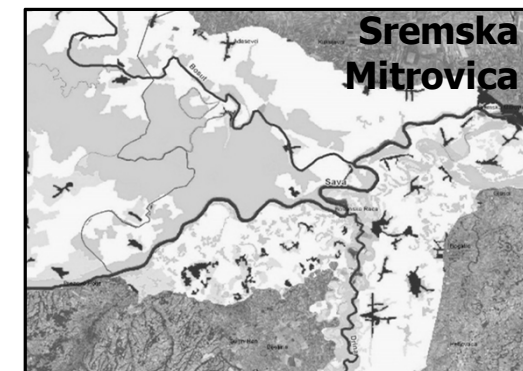
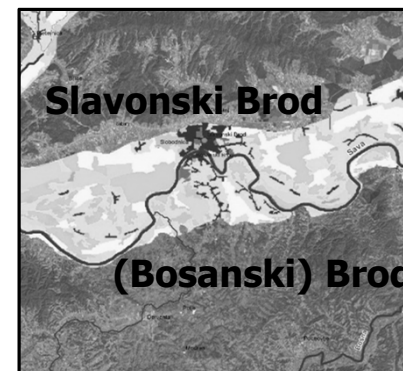
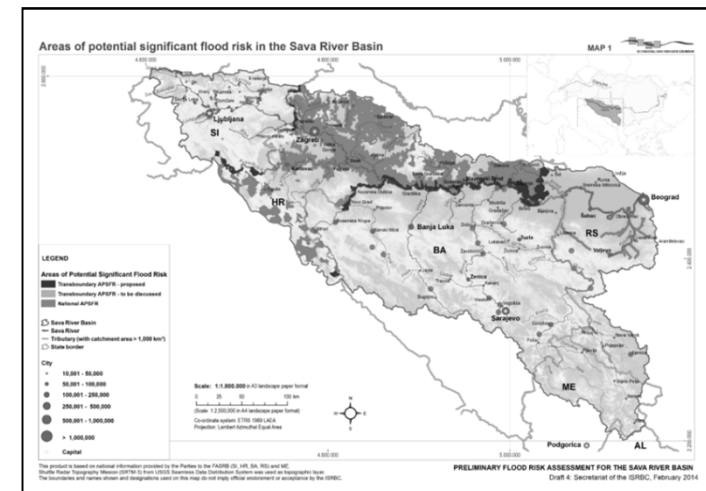
Protocol on Flood Protection (2010)

- **Flood Risk Management Plan** (EU Flood Directive)
 - **Flood forecasting and warning system** (FFWS)
 - **Exchange of information**
 - **Flood defence emergency situations** (incl. mutual assistance)
-
- **Ratified** by 3 countries
 - **Entry into force:**
mid-2015 (expected)



Flood Risk Management Plan

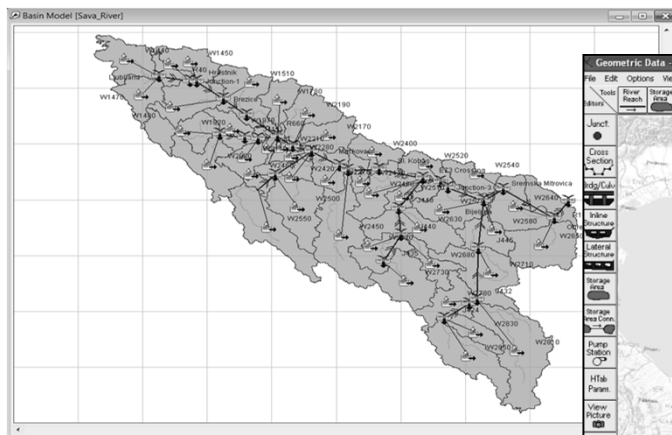
- **Initial steps**
 - **Draft Program**
 - Initial **flood vulnerab. assesment**
 - Joint **PFRA Report** (incl. May '14 flood)
- **Preparation of the Plan, incl. Summary of Measures (2015-2017)**



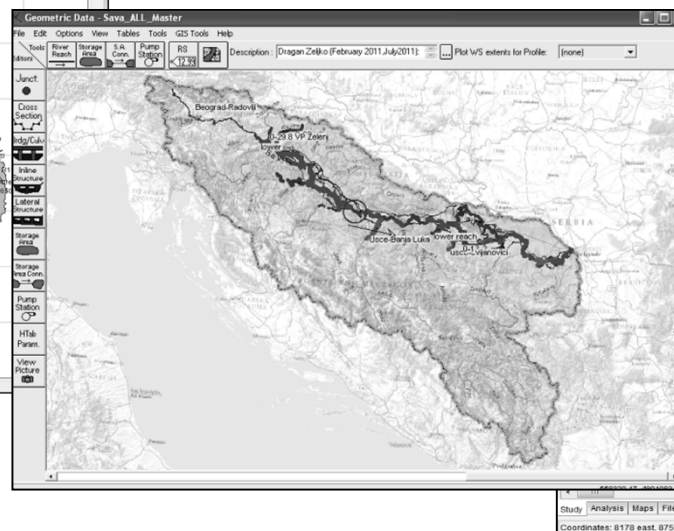
Flood forecasting and warning

- **Simulation models** (hydrologic, hydraulic)
- **Upgrade of models** (2015)
- Implementation of **FFWS – Phase 1** (2015-2017)

Hydrologic model



Hydraulic model



Consequence assessment



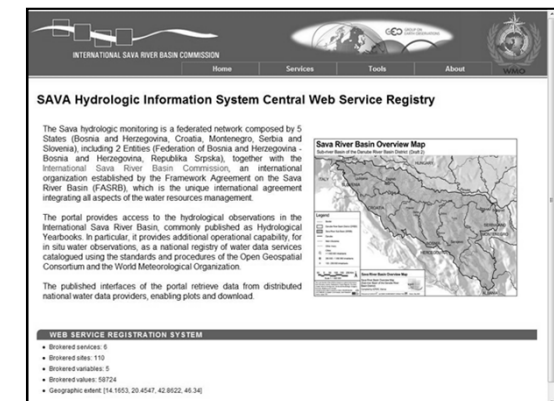
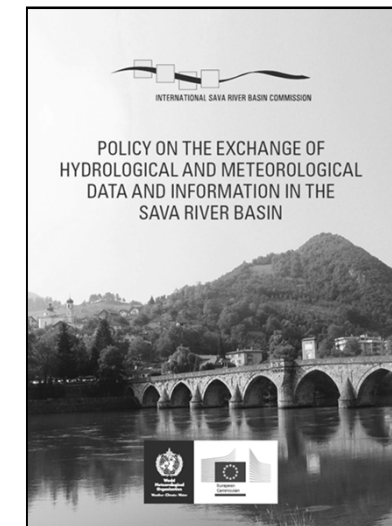
Data and information exchange

- **Platform for exchange**
 - HM Data Exchange Policy (principles, minimum)
 - Hydrological Yearbook and Data Portal
 - Hydrological Information System (2015-2016)



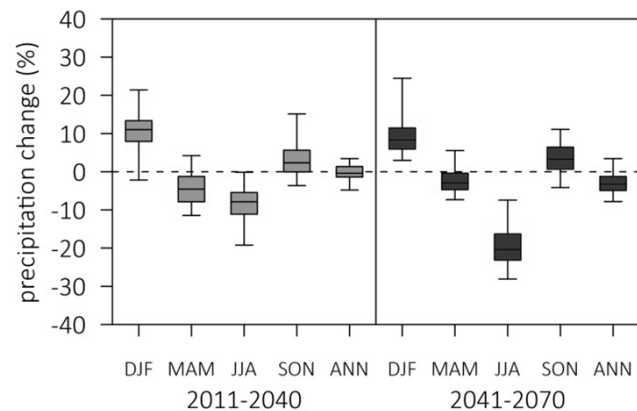

Hydrological stations with daily observation

Station	Hydrological station	Station type	Station code	Station name	Station coordinates	Station elevation	Station status
1	Donja Dubrava	Hydrological station	1001	Donja Dubrava	45.7667, 15.8333	100m	Active
2	Donja Dubrava	Hydrological station	1002	Donja Dubrava	45.7667, 15.8333	100m	Active
3	Donja Dubrava	Hydrological station	1003	Donja Dubrava	45.7667, 15.8333	100m	Active
4	Donja Dubrava	Hydrological station	1004	Donja Dubrava	45.7667, 15.8333	100m	Active
5	Donja Dubrava	Hydrological station	1005	Donja Dubrava	45.7667, 15.8333	100m	Active
6	Donja Dubrava	Hydrological station	1006	Donja Dubrava	45.7667, 15.8333	100m	Active
7	Donja Dubrava	Hydrological station	1007	Donja Dubrava	45.7667, 15.8333	100m	Active
8	Donja Dubrava	Hydrological station	1008	Donja Dubrava	45.7667, 15.8333	100m	Active
9	Donja Dubrava	Hydrological station	1009	Donja Dubrava	45.7667, 15.8333	100m	Active
10	Donja Dubrava	Hydrological station	1010	Donja Dubrava	45.7667, 15.8333	100m	Active



Other relevant activities

- **Sava River Basin Management Plan**
- **Sava GIS** – Phase 1 (2015)
- **Water and Climate Adaptation Plan**
 - Guidance Notes
 - Measures, recommendations



Commitment of the Parties

- Sessions of the ISRBC
- Meetings of the Parties
- Other high-level meetings

Belgrade, June 16, 2014

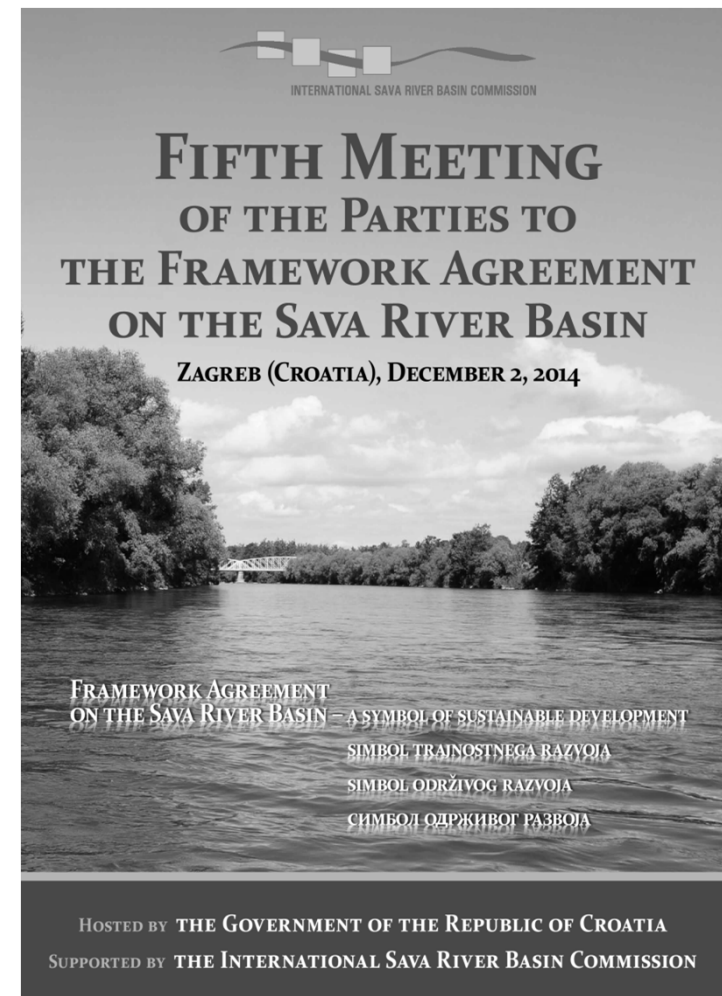


Zagreb, Dec. 2, 2014



Key messages

- **Sound legal framework**
 - FASRB
 - Protocol on Flood Protection
- **Solid institutional framework**
 - Regional network of institutions / people (political and expert levels)
 - Achievements / ongoing activities
 - Mechanism for preparation and implementation of regional projects
- **Make the best use of it!**



Contact information

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