

Sava River Programme SEA

Ljubljana, 11 – 12 May 2016
Anamarija Matak

Sava River

- ✓ total length: 944 km
- ✓ Slovenia, Croatia, Bosnia and Herzegovina and Serbia
- ✓ total catchment area: 97.713 km²



Sava River - Croatia

- ✓ length: 510 km
- ✓ border with Bosnia and Herzegovina (313 km)



Flood event

- ✓ Zagreb – 1964
- ✓ construction of flood protection system
 - embankments
 - construction of relief channel Sava-Odra-Sava



Results

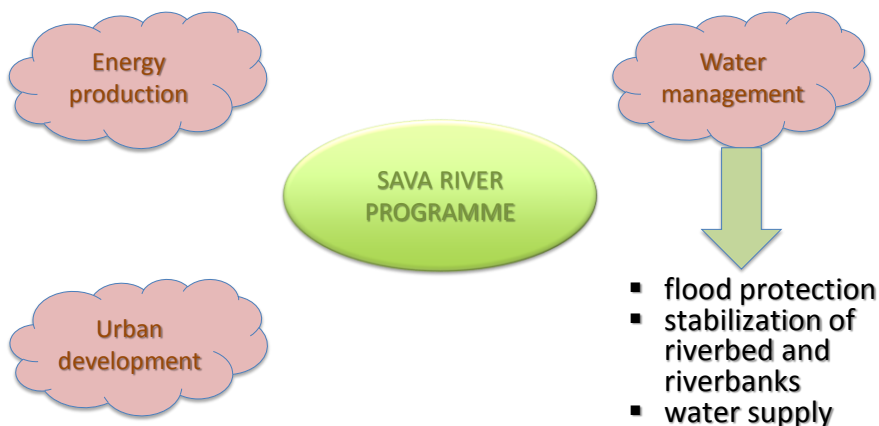
- ✓ the area of New Zagreb
- ✓ the river and its flood protection system in the center of the city



Sava River Programme

- ✓ multi-purpose Programme
- ✓ complete solution for protection and development of Sava river from Slovenian border to Sisak

Sava River Programme

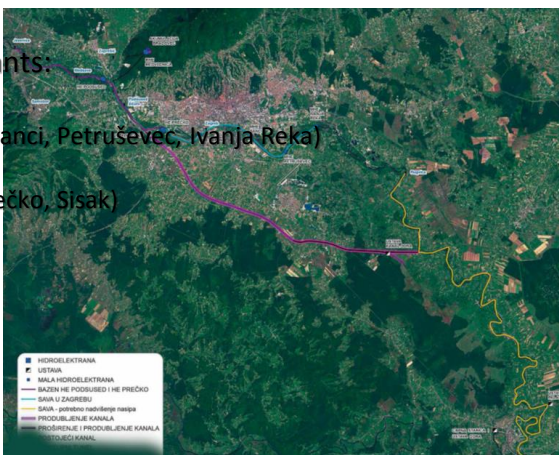


Sava River Programme

- ✓ Urban regeneration potential on 350 hectares in the Croatian capitol in compliance with the highest sustainability and green building standards.
- ✓ Navigability of tourist vessels up to 55 m in length and development of cruising tourism in the wider city area
- ✓ Improved traffic connectivity over new bridges over Sava river, as well as cost reduction in maintenance of existing ones
- ✓ Green energy in the center of consumption through a system of hydropower plants and small hydropower plants

Sava River Programme

- ✓ up to 7 hydropower plants:
- ✓ 151-156 MW
 - 4 small HPP (Jarun, Šanci, Petruševac, Ivanja Reka)
 - 3 HPP (Podsused, Prečko, Sisak)



Programme stakeholders

SEA

- ✓ 2013 - Government od RC – formal Decision - preparation of Programme

- stakeholders
- obligations
- reporting
- deadlines

Ministry of Economy
www.mingo.hr

Ministry of Regional Development and EU Funds
www.mrrfeu.hr

Ministry of Foreign and European Affairs
www.mvep.hr

Ministry of Construction and Physical Planning
www.mgipu.hr

Ministry of Environmental and Nature Protection
www.mzoip.hr

Ministry of Maritime Affairs, Transport and Infrastructure
www.mppi.hr

Ministry of Agriculture
www.mps.hr

Center for Monitoring Business Activities
in the Energy Sector and Investments
www.cel.hr

City of Zagreb
www.zagreb.hr

Zagreb County
www.zagrebbacka-zupanija.hr

Sisak-Moslavina County
www.smoz.hr

Croatian Waters
www.voda.hr

Na temelju članka 66. Zakona o zaštiti okoliša (Narodne novine, broj 80/13 i 153/13) i članka 4. stavka 2. Uredbe o strateškoj procjeni utjecaja plana i programa na okoliš (Narodne novine, broj 64/08), ministar donosi:

SEA

✓ Competent authority – Ministry of Economy

✓ February 2014 - Decision on initiating the strategic assessment of the programme

- ✓ the objective and purpose of the program
- ✓ SEA procedure activities
- ✓ SEA procedure stakeholders

ODLUKU

o provođenju postupka strateške procjene utjecaja na okoliš Programa zaštite, uređenja i korištenja rijeke Save i zadržanja od granice s Republikom Slovenijom do Siska

I.

Donesljenom ovom Odlukom započinje postupak strateške procjene utjecaja na okoliš Programa zaštite, uređenja i korištenja rijeke Save i zadržanja od granice s Republikom Slovenijom do Siska (u daljnjem tekstu: strateške procjene).

II.

Stratešku procjenu provodi Ministarstvo gospodarstva (u daljnjem tekstu: Ministarstvo) koje je nadležno za izradu nacrtu prijedloga Programa zaštite, uređenja i korištenja rijeke Save i zadržanja od granice s Republikom Slovenijom do Siska.

III.

RAZLOZI DONOŠENJA PROGRAMA I PROGRAMSKA POLAZIŠTA
Poreču za uređenje rijeke Save i zadržanju od poplave ruka je u ponovno stapanje urbaniziranosti savske doline. Regulaćijski i zaštitni radovi koji su poduzimani tijekom prve polovice 20. stoljeća nisu bili sustavni. Ranjivost sustava bila je evidentna 1964. godine kada se dogodila katastrofalna poplava s ljudskim žrtvama i velikom materijalnom štetom. To je bio impetus za pokretanje izrade kompleksnog rješenja obmane od poplava na cijelom otoku rijeke Save. Izrada Studije regulacije i uređenja rijeke Save je započela 1968. godine i bila dovršena 1972. g. a projekt je financirala tadašnja Vlada Jugoslavije i Program za razvoj Ujedinjenih naroda. Navedenim programom predloženo je izgradnja stacionarnog kanala kojim se dio velikih voda Save provodi mimo Zagreba. Daljnjom razradom programa izrađena je i uvjajana – Vodeprivredna osnova Grada Zagreba (VOGZ) 1982. godine.

Međutim, sustav nije dovršen prema izvornoj ideji, odnosno izveden je tek u obujmu od oko 40% planiranog. Ključni objekti sustava obrane od poplava Zagreba je oštećeni kanal Odra koji je umjesto predviđenih 51 km izgrađen u daljini od samo 31 km s ispuštanjem velikih voda u Otkrunko polje. Zbog toga izostao je dio značajnih morfoloških promjena u koritu rijeke Save, odnosno do sadašnjeg dana, zbog čega preljev Jankovir ne napreduje velike vode kako je to bilo predviđeno osnovnim projektom. Umjesto kod predviđenih 1900 m³/s, preljev se aktivira kod protoka 2250 m³/s što znači da kroz Grad Zagreb protječe veća količina vode te se više ugrožava nivo vodno područje.

SCOPING - consultations

- ✓ the opinion of the relevant authorities on the content and scope of information that have to be processed in the strategic impact study
- ✓ For harmonising opinions on the content and establishing the final content of the strategic impact study - discussions with the representatives of the authorities
- ✓ public consultations

SCOPING - consultations

- ✓ Ministry of Environmental and Nature Protection - nature, ecological network, waste management, climate
- ✓ Ministry of Agriculture – water management, agriculture, forestry, rural development
- ✓ Ministry of Culture – cultural heritage
- ✓ Ministry of Economy – energy, investments
- ✓ Ministry of Maritime Affairs, Transport and Infrastructure – transport, inland waterways
- ✓ Ministry of Regional Development and EU Funds
- ✓ Ministry of Foreign and European Affairs
- ✓ Ministry of Construction and Physical Planning

SCOPING - consultations

- ✓ HRVATSKE VODE – legal entity for water management
- ✓ HEP d.d.
- ✓ City of Zagreb
- ✓ Zagrebačka County
- ✓ Sisačko – moslavačka County
- ✓ Association of municipalities

SCOPING - consultations

✓ Public consultation

- 30 days (March/April 2014)
- Information to NGO's: Croatian Society for the Bird and Nature Protection, WWF, Green Action, Greenpeace Croatia, SLAP - Association for the preservation of water and sea
- Comments: Croatian Society for the Bird and Nature Protection

SCOPING - Decision

✓ July 2014 - Decision on the content of the strategic impact study

✓ Identified areas of particular importance:

Natura 2000 sites – Main Appropriate assessment

impact on:

- the condition and dynamics of surface and ground water
- protected areas
- forestry, agriculture
- biodiversity

transboundary impacts

cumulative effect with other regulation objects on the river
(HPP, flood protection system...)

SEA – ongoing activities

✓ **Strategic Study** – under preparation

✓ **Advisory Expert Committee – July 2014**

Representatives:

- nature protection, energy, water management, physical planning, cultural heritage, Hrvatske vode, city of Zagreb, Zagrebačka & Sisačko moslavačka County, Meteorological and Hydrological Service, experts for agronomy, forestry, hydrotechnical engineering

QUESTIONS

