

Rehabilitation and development of navigation on the Sava river



3rd Joint Statement Implementation Meeting,
Vienna, April 5-6, 2011

Background of the project

- Recognized as **a priority project** in the framework of the “Sava Initiative” (process of drafting and concluding the FASRB)
- **Framework Agreement on the Sava River Basin (FASRB)** – signed in 2002, entered into force in 2004
- **Joint Statement of the ministers** of the Sava countries responsible for transport – Brčko, December 13, 2005
- **Strategy on Implementation of the FASRB** – adopted by the ISRBC in 2008
- **Commitment reconfirmed** during the 1. and 2. **Meeting of the Parties** to the FASRB, held in Zagreb on 1 June 2007 and Belgrade on 1 June 2009

Objectives

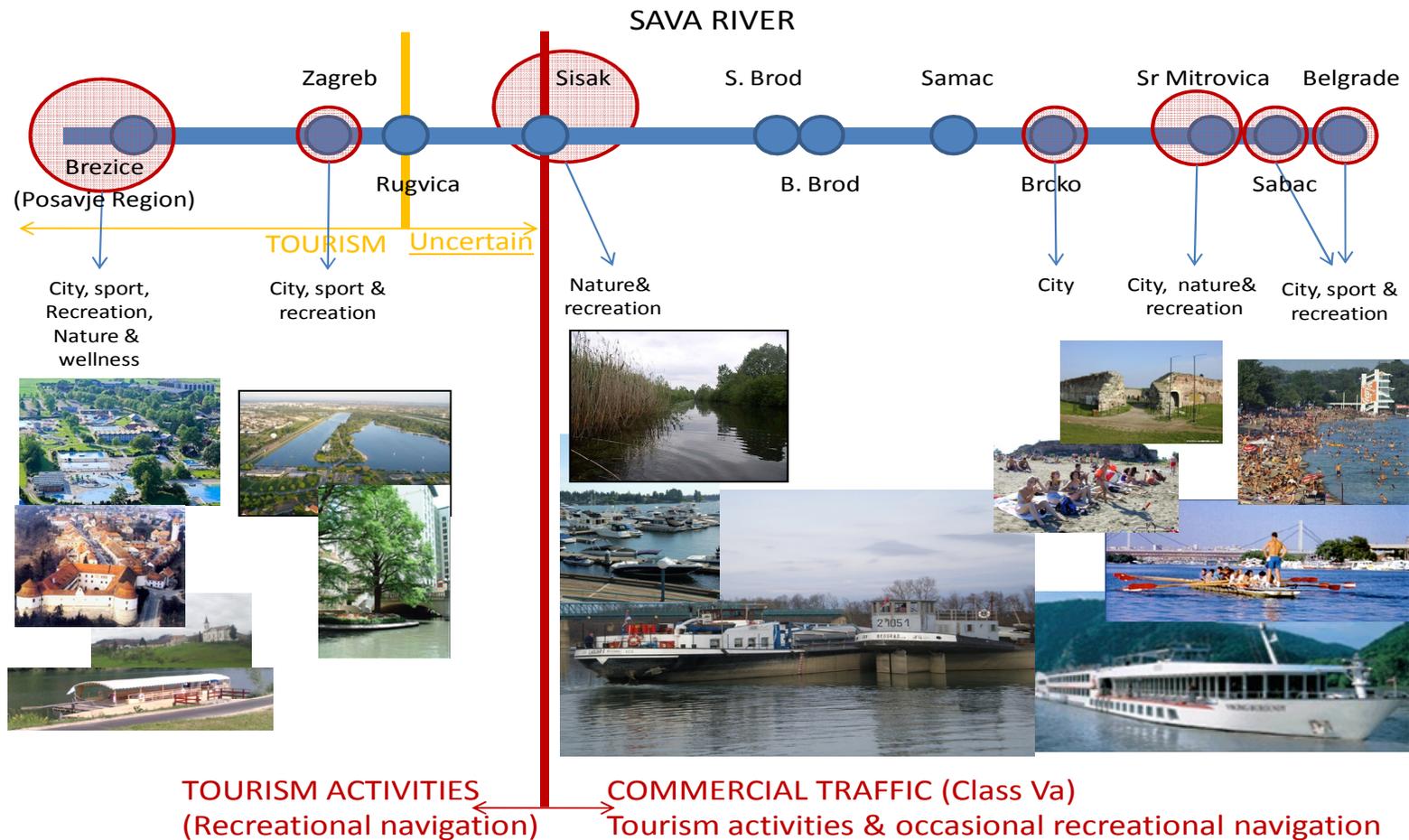
The **main objective** of the project is rehabilitation and development of the Sava River waterway infrastructure and provision of an appropriate economic and organizational framework for restoring trade and navigation (cargo and passengers) on the Sava, with an aim to:

- improve the waterway infrastructure up to class IV between Sisak and Brčko and class Va between Brčko and Belgrade through training and other works;
- improve public and private investments into transport on the Sava River, in accordance with adequate economic and financial analysis;
- apply an integrated approach considering water management, energy production, flood control and environmental aspects in the basin.

Preparatory activities

- **Prefeasibility Study – 2007**
- **Transport Demand and Institutional, Policy and Legal Framework Study – 2007**
- **Feasibility Study – 2008**
- **Restoration of the marking system – 2009**
- **Emergency maintenance works on two critical stretches shared by Croatia and B&H – 2009**
- **EIA Study sector Brčko – Sisak - 2010**

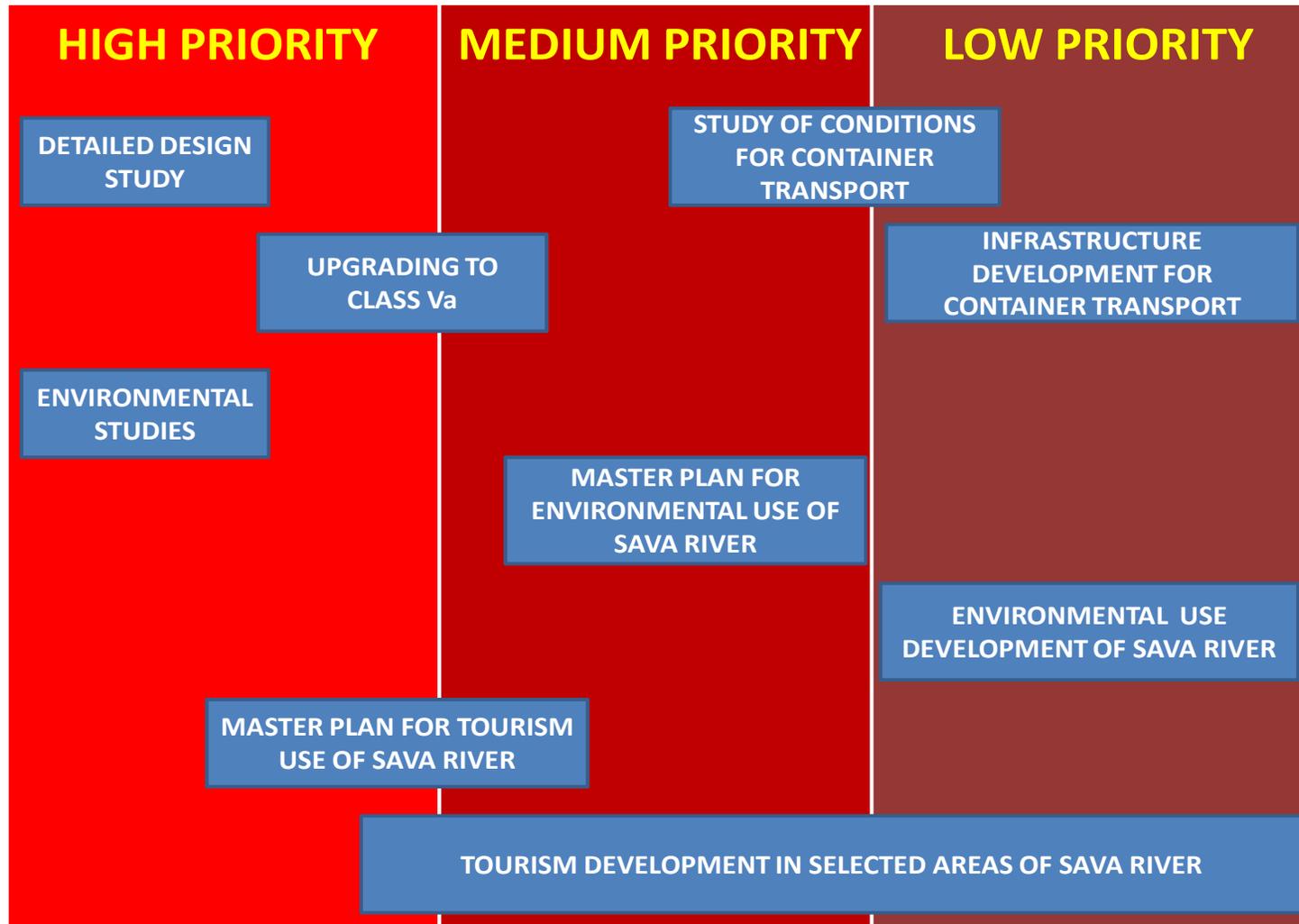
Feasibility Study Recommendations



Interventions and costs

- **Identified need for improvements:**
 - Training works and dredging (19 locations);
 - River bend improvements (20 locations);
 - Bridges (3 locations);
 - Sunken vessels (2 locations);
 - River Information Services.
- **Estimated construction costs (rkm 0-rkm 594)**
 - Class IV: 80,7 mil. EUR; and
 - Class Va: 86,4 mil. EUR.

Action Plan - General lines



Decisions of the Sava Commission

- **Decision Nr. 21/09**

- Defines parameters of fairway for detailed design (rkm. 0 – rkm. 234 class Va and rkm. 234 – rkm 594 class IV);
- Defines responsibility for developing detailed design;
- Although Feasibility Study recommends development of the whole waterway on the class Va, taking into account environmental concerns, the SC decided on the class IV for the upper and middle Sava;
- For the same reason the Preliminary Design recommends the one way traffic in the sharp bends to avoid crosscutting of the river bends

Decisions of the Sava Commission

- **Decision Nr. 01/10**
 - “Completion of development and approval of all necessary documentation for execution of works on rehabilitation and development of the Sava River Waterway from Belgrade to Sisak by end of 2012, at latest.....; ”
 - Provide for the financial assets for execution of works on rehabilitation and development of the Sava River Waterway from Belgrade to Sisak by end of 2012, at latest;
 - Beginning of works on rehabilitation and development of the Sava River Waterway from Belgrade to Sisak by mid 2013, at latest.”
- **Decisions on Coordinating Body and on distribution of costs for works - in preparation**

Detailed Design sector Brčko– Sisak

- First phase: IPA IIIa - Operation 2.1.1.-01: TA for review of preliminary documentation for rehabilitation and improvement of Sava River Waterway –finished in the beginning of 20011
- All existing documentation (preliminary design, feasibility study, EIA) was reviewed
- Conclusion of consultants: “In general it can be concluded that the Feasibility Study, CBA, Preliminary Design and EIA have been prepared in a thorough and professional manner. All required aspects were included and show positive to very positive results.”
- Second phase: based on the conclusions from the first phase, ToR for the Detailed Design was amended and will be sent to the EC for approval

Detailed Design and other studies Belgrade – Brčko

- Commission Decision C(2010)5308 of 28/07/2010 adopting a IPA National Programme for B&H;
- Rehabilitation and Development of Transport and Navigation on the Sava River Waterway – Detailed Design and other studies are part of the Programme;
- Joint management European Union – World Bank;
- General Procurement Notice published on March 7, 2011;
- Tenders expected to be launched for consultants to undertake the detailed design and environmental impact assessment by end April 2011; and
- Contractors will also be hired to undertake demining of bank of Sava River in Bosnia and Herzegovina.

Environmental implications

- **Sector Brčko-Sisak**

- EIA for whole sector was done in Croatia, approved through proper procedure and location permit was issued;
- Process of approval in B&H ongoing-in final stage;
- EIA was reviewed by the EU experts/consultants and was generally approved with some recommendations to be done in the further phases;
- Serbia was formally informed about project in accordance with the relevant international regulations.

- **Sector Belgrade-Brčko**

- EIA/EMP will be done as a part of the IPA project together with the detailed design, and will meet requirements of national legislation, and EU and World Bank policies on social and environmental protection.

Financing for the Civil Works

- **Sector Brčko-Sisak**

- Costs for this section to be shared between Bosnia and Herzegovina and Croatia;
- Bosnian share to be financed from a World Bank Credit of US\$30 million; and
- Croatian share provisionally expected to be financed from EU Grants/IFI Loans.

- **Sector Belgrade-Brčko**

- Costs for this section to be shared between Bosnia and Herzegovina and Serbia;
- Bosnian share to be financed from a World Bank Credit of US\$30 million; and
- Request has been submitted for IPA 2012/2013 for Serbian share.

The World Bank ^{RMF3} financed project in BiH

The WB financed project in BiH will have three components:

- a) the rehabilitation of the Sava River within Bosnia and Herzegovina (US\$ 17 million);
- b) targeted investments to improve the operational performance of, and access to, the river ports (US\$8 million); and
- c) necessary implementation assistance and institutional support (US\$5 million).

Slide 14

RMF3

Io think we need to also list the works.components under the TF! Maybe a
wb225857, 17/03/2011

Components in the World Bank financed project in BiH

- **COMPONENT 1:** is provisionally expected to comprise necessary civil works, involving river dredging and training works, riverbank protection and where necessary land acquisition, site clearance, and the placing of rock or braced blocks, or geotextile material, to return the Sava River to Class Va status between Brčko and the international border with Serbia at the confluence of the Drina River and to Class IV status between Brčko and the confluence with the Una River at the point where the border with Croatia diverts from the Sava River;
- **COMPONENT 2:** is provisionally expected to comprise targeted investments to improve the operational performance of the river ports, including, but not restricted to, Brčko port, as well as modest investments to improve road and rail access to facilitate plans to concession Brčko port in parallel to the Bank financed project; and
- **COMPONENT 3:** is provisionally expected to comprise (i) the procurement of a qualified firm to supervise the civil works in the waterway, and for the access rail and road links in Brčko; (ii) the procurement of a qualified firm to supervise the environmental and social safeguard aspects for the works in the waterway, and for the access rail and road links in Brčko; and (iii) the procurement of consultants to prepare bidding documents to allow the waterway to be maintained using an output and performance based approach after the project.

The World Bank financed project in BiH

- The proposed World Bank financed project in BiH triggers the OP/BP 4.01 on *Environmental Assessment* and received the EA “category A”
- Temporary impacts are expected during the rehabilitation works, such as air pollution and noise from construction equipment, water pollution from river banks’ vegetation clearing, de-mining and dredging activities, localized impacts on flora and fauna;
- On site mitigations options considered include management of removal and disposal of debris generated in the course of dredging, construction of temporary embankments to protect the shoreline, use of appropriate construction equipment to reduce emission of diesel particulate matter and other pollutants, replacement of vegetation loss, sediment and storm water management; restriction of works so as will not coincide with fish and birds migrations; overall dredging works undertaken with agreed code of practice; full provisions for resolutions of any cultural resources impact.
- Possible cumulative impacts will be assessed during the preparation of the ESIA, which will also include aspects such as navigability safety and define specific environmental monitoring actions to ensure use of silt screens, disposal of dredged materials only at approved sites, and compliance with surface water quality standards (e.g., turbidity).
- Development and implementation of an Emergency Contingency Plan will prevent and manage impacts (e.g., oil spills) due to critical situations such as ship accidents.

The World Bank financed project in BiH

- The proposed World Bank financed project in BiH as described in the previous slide will trigger the World Bank Policy for Projects on International Waterways (OP/BP 7.50) because of the proposed investments on the Sava River, an international waterway under said Policy and a right side tributary of the Danube River at Belgrade;
- Accordingly, the Governments of the three participatory countries, through the ISRBC and within the Framework Convention for the Sava River Basin – hereby provides formal notification of the Project;
- A copy of OP 7.50 is available for download from the World Bank website <http://web.worldbank.org/WBSITE/EXTERNAL/PROJECTS/EXTPOLICIES/EXTOPMANUAL/;and>
- In the assessment of Bank staff, the project will not cause appreciable harm to the other riparians, and will not be appreciably harmed by the other riparians' possible water use
- **If you have any comments, please kindly send them to us for onward transmission to the World Bank by June 30, 2011.**

RIS development

- Project “Detailed Design and prototype installation for RIS on the Sava River” finished.
- Project financed by Croatia, B&H and Serbia.
- Detailed design with cost estimate and technical specifications.
- Three RIS base station in test operation.
- Objective: fully operational RIS on the Sava in 2013.

Other infrastructure projects - Ports

- **Port of Sisak – Master Plan**
 - IPA financing approved-start is expected in the second half of 2011.
- **Port of Slavonski Brod-Liquid Cargo Terminal**
 - Detailed Design and documentation for construction permits;
 - IPA financing approved-start is expected in the second half of 2011.
- **Port of Šabac (Free Zone)**
 - Feasibility Study finished – financed by USAID.
- **Port of Sremska Mitrovica**
 - Cooperation and development agreement with Port of Rijeka
- **Port of Brčko**
 - Contacts with World Bank – financing of the development of the port infrastructure.

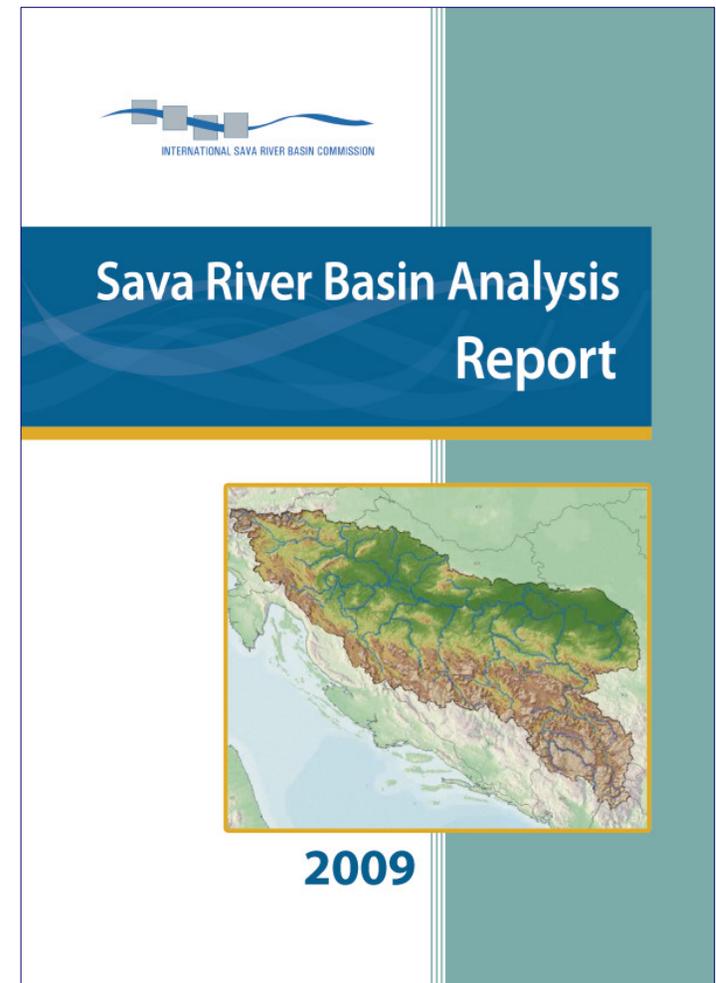
Other activities - Nautical tourism

- **Sava Commission accepted Timeframe for development of the Master Plan for Nautical Tourism in the Sava River Basin**
- ***Project Fiche* for Master Plan finished**
- **Coordination with competent authorities from the Sava Countries regarding financing**
- **Atlas for nautical tourism in preparation (final stage)**



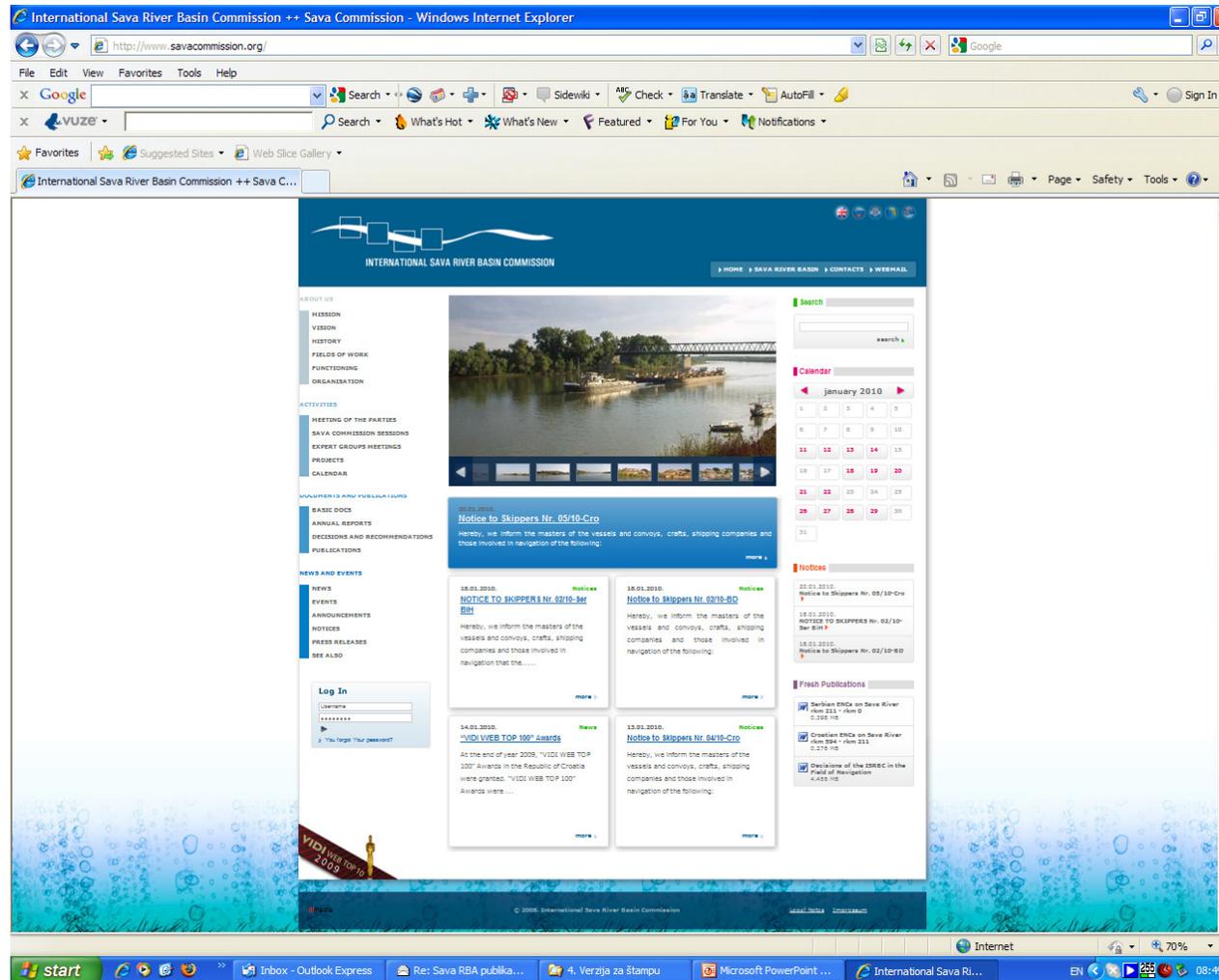
Sava RBM Plan

- **Sava River Basin Analysis Report**
 - **Finalized** in 2009
 - **Annex** on Navigation Issues
 - **Dissemination of integral version** started (publication, CD, web-site)
- **Sava RBM Plan**
 - **Supported by an EC-funded project**, started in December 2009
 - **Expected to be finalized** by the end of 2011
 - **Expected to take account** of the Sava Navigation Project



More information

www.savacommission.org



The screenshot shows the website interface within a browser window. The browser title is "International Sava River Basin Commission ++ Sava Commission - Windows Internet Explorer". The address bar shows "http://www.savacommission.org/". The website header includes the logo and navigation links: HOME, SAVA RIVER BASIN, CONTACTS, and WEBMAIL. A left sidebar contains a menu with categories like ABOUT US, ACTIVITIES, and NEWS AND EVENTS. The main content area features a large image of a river scene and several news items, including "Notice to Skippers Nr. 05/10-Cro" and "VODI WEB TOP 100 Awards". A right sidebar contains a search bar, a calendar for January 2010, and a "Fresh Publications" section. The Windows taskbar at the bottom shows the start button, system tray, and several open applications including Outlook Express, a PDF viewer, and a PowerPoint presentation.

If there are any comments or clarifications needed please inform the Sava Commission on the zmilkovic@savacommission.org until June 30, 2011

A wide, calm body of water, likely a river or lake, stretches across the frame. In the foreground, the dark, churning wake of a boat is visible, moving away from the viewer. The water's surface is dark blue-grey. In the distance, a dense line of green trees forms a horizon line under a pale, overcast sky. A small white buoy is visible on the left side of the water.

Thank you for your attention!!!

Željko Milković