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Zagreb, 04 December 2017

**32<sup>nd</sup> Meeting of the Permanent Expert Group for Flood Protection**  
**REPORT FROM THE MEETING**

Zagreb, 04 December 2017

Venue: Premises of the International Sava River Basin Commission, Kneza Branimira 29/II, Zagreb

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## **I. ATTENDANCE**

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The PEG members from Slovenia, Croatia, Bosnia and Herzegovina and Serbia, including additional experts from Serbia and Slovenia as well as guest from Montenegro attended the meeting. The Consultant representatives engaged for the development of Sava FRMP, also participated at the respective agenda item.

The list of participants is annexed to this report.

## **II. CHAIRMANSHIP**

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Ms. Dragana Milovanović chaired the meeting.

## **III. ADOPTED AGENDA**

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- 1. Opening of the meeting**
  - Welcome address
  - Adoption of the Agenda
- 2. Overview of the activities between the two PEG FP meetings**
  - Presentation on the ISRBC activities
  - Short statements/presentations on the relevant activities in the Parties and Montenegro
- 3. Development of the Flood Risk Management Plan for the Sava River basin**
  - Inception phase
    - Inception Report - final adoption
  - Implementation phase
    - Sava FRMP Background documents
    - Discussion and conclusions
- 4. Development of the Flood Forecasting and Warning System for the Sava River basin**
  - Status of the “WBIF” project - component 2
- 5. U.S. Government support – 2<sup>nd</sup> phase**
  - Sava LiDAR and Hydraulic modelling
- 6. Exchange of information on flood related projects**
  - Status of collection of information on the projects
  - Discussion & conclusions
- 7. Sava GIS**
  - Status of collection of national FRM related datasets
- 8. Other relevant projects and activities**
  - Outline of the Climate Adaptation Strategy and basin-wide priority measures for the Sava River Basin
  - Use of Satellite Communication in the Flood Forecasting and Warning and Emergency Situations
  - Transboundary Training Workshop - Governance and Technology for Flood Risk Reduction: linking early warning to emergency operational phases in the Sava River Basin
- 9. Any other issues**

## **IV. DISCUSSION, RECOMMENDATIONS AND CONCLUSIONS**

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### **AD.1. OPENING OF THE MEETING**

#### *Welcome and opening remarks by the PEG FP Chairman*

Ms. Dragana Milovanović opened the meeting, welcomed the PEG FP members, national experts, guests from Montenegro as well as the Sava FRMP project experts and informed the participants on some logistical issues.

Ms. Milovanović introduced and welcomed the new PEG FP member from Croatia.

#### *Adoption of the Agenda*

PEG FP adopted the proposed agenda of the 32<sup>nd</sup> meeting (*Doc.Ref.No: 3-17-13/2-2*), with agenda items presented in Part III of this report. (Meeting document: *Ad.1. PEG FP\_32nd meeting\_AdoptedAgenda*).

### **AD.2. OVERVIEW OF THE ACTIVITIES BETWEEN THE TWO PEG FP MEETINGS**

#### *Presentation on the ISRBC activities*

Mr. Zeljko, the Secretary of ISRBC informed the PEG FP on the most important activities and events since the last 31<sup>th</sup> PEG FP meeting held in July 2017, as well as on the upcoming meetings and events.

Mr. Zeljko informed the PEG members on the development of the Joint Plan of Actions (JPA) for the Sava River Basin, prepared by the Secretariat with technical support provided by the individual experts from the Sava countries. The JPA was prepared with support of World Bank. The JPA defines the priorities and plans in the integrated water resources management with the main objective of sustainable development in the Sava River Basin. Mr. Zeljko emphasized that the JPA along with the Joint Statement was adopted by the Sava Commission at their 46<sup>th</sup> Session, noting that the documents were previously supported by Montenegro as well. The document and its executive summary were already delivered to the relevant institutions from the Parties of FASRB and Montenegro. The JPA document was delivered to the organizers of the 4<sup>th</sup> Western Balkans Summit which was held on July 12, 2017 in Trieste, Italy and presented at the meeting. Mr. Zeljko also pointed out that the JPA document will be further used for the purpose of finding the financial resources for different activities of ISRBC as well as the background document for development of the Action Plan of the Strategy on Implementation of the FASRB for the next period of planning.

The JPA document is placed at the PEG's ftp site for the general overview.

More information can be found in presentation (*Ad.2\_Presentation on ISRBC activities\_PEG FP 32*).

#### *Short statements/presentations on the relevant activities in the Parties and Montenegro*

Members as well as guests from Montenegro informed the PEG about the activities in the implementation of the EU Floods Directive in their countries and the current status in the flood risk management planning. Relevant information about ongoing flood related projects were also given.

#### **Slovenia**

Mr. Luka Štravs informed the PEG that the Slovenian Government in July adopted the 1<sup>st</sup> national FRMP which then was also reported to the EC. He pointed that the national FRMP contains a very complex list of the structural measures and that implementation of the structural and non-structural measures is already ongoing.

Mr. Štravs has also stressed that the activities on update of the PFRA report are started in Slovenia and shall be finalized at the end of 2018, probably without major changes.

## **Croatia**

Mr. Darko Barbalić informed the PEG that the implementation of the national FRMP ongoing in Croatia. He pointed out that update of the Multiannual Programme of Construction of Water Regulation and Protection Facilities and Amelioration Facilities, which was a basis for the Summary of measures of the Croatian FRMP, is ongoing.

Mr. Barbalić also stressed that update of the PFRA report is also ongoing.

Climate change adaptation activities will be implemented by Croatian Waters and DHMZ jointly.

## **Bosnia and Herzegovina**

Mr. David Latinović and Mr. Almir Bajramlić informed the PEG about the current status in the flood risk management planning and about the actual works in the dyke reconstruction along the Sava River and main tributaries.

Mr. Amer Kavazović stressed that the so called Vrbas project, which is implemented by the UNDP office in Bosnia and Herzegovina, is at the beginning of next stage and should result with the flood forecasting system for the Vrbas Basin. He pointed out that the respective institutions were involved in the preparation of the terms of reference for this project activity which is currently in the procurement procedure.

## **Serbia**

Ms. Merita Borota informed the PEG that the draft national FRMP for Serbia, which was prepared but not adopted, shall be a basis for the preparation of the national plans on the catchment areas level. She also pointed out that the terms of reference for the project of flood hazard and risk maps development on the catchment areas level is in preparation and will be implemented by World Bank.

Ms. Borota also stressed that update of the PFRA report shall be prepared in 2018.

Ms. Marina Babić-Mladenović informed that the initial steps for the Vulnerability Assessment for Serbia, including the Sava Basin, are ongoing.

Mr. Božidar Beloš pointed out that the final preparations for the Lidar surveying are ongoing.

## **Montenegro**

Ms. Dragana Đukić and Mr. Milo Radović informed the PEG about the activities in the implementation of the EU Floods Directive in Montenegro and the current status in the flood risk management planning.

Mr. Radović stressed that process of the information system development is ongoing and that the full establishment is expected by the end of 2018.

Ms. Đukić pointed out that development of the Disaster Risk Strategy is in progress.

### **AD.3. DEVELOPMENT OF THE FLOOD RISK MANAGEMENT PLAN FOR THE SAVA RIVER BASIN**

Ms. Milovanović briefly informed the PEG on the current status of the WBIF project component 1 and indicated that the development of the Sava FRMP is in an apparent progress, emphasizing that two Core Working Group meetings were held so far:

- 1<sup>st</sup> CWG meeting at October 17, 2017 in Zagreb
- 2<sup>nd</sup> CWG meeting at November 28, 2017 in Zagreb.

Minutes of the CWG meetings, which are listed in the Annex II of this report, are available at the PEG's ftp site.

Representatives of the Consultant gave an introduction to the documents prepared and delivered prior to the PEG meeting, which are listed in the Annex II of this report and are available at the PEG's ftp site.

After the Consultant's presentation and joint overview of the documents all the participants discussed specific issues, with following conclusions:

- The Consultant shall prepare the final version of the Inception Report and delivered to the World Bank for adoption. The adopted Inception Report should be send to the project beneficiaries
- APSFR for ME will be approved in the direct contact between the ME representatives and Consultant, until December 20, 2017
- PEG FP will send, until December 20, 2017, the comments on the following background documents:
  - Ad.3\_1SavaFRMP - Nacrt 191117
  - Ad.3\_3SavaFRMP - Predlog metodologije za karte rizika - v1 151117
  - Ad.3\_5SavaFRMP - Pregled Mera - v1 191117
  - Ad.3\_5SavaFRMP - Katalog Mera - v1 191117
- The Consultant will improve, as soon as possible, the following background documents:
  - Ad.3\_2SavaFRMP - PFRA – 20171119
  - Ad.3\_3SavaFRMP - FHRM – 20171119
  - Ad.3\_4SavaFRMP - Zajednicki ciljevi FRMP - v2 161117
- The improved background document will be send to the CWG
- The Consultant shall, using the national APSFRs, prepare the areas of mutual interest for flood protection, as soon as possible
- The PEG members from Croatia and Slovenia will deliver the maps of water depths in grid format for the already delivered flood hazard maps
- Time gap between the RBM (already 2<sup>nd</sup> cycle) and FRM planning should be taken into account
- The Sava FRMP micro web-site, which will be used for the public participation process, should be launched as soon as possible.

#### **AD.4. DEVELOPMENT OF THE FLOOD FORECASTING AND WARNING SYSTEM FOR THE SAVA RIVER BASIN**

Mr. Mirza Sarač, from the Secretariat, briefly informed the PEG on the current status of the WBIF project component 2 (development of the Sava FFWS).

He stressed that delivery of the pre-release 0.3 version and the user training under preparation as well as the hosting servers installations starting with the primary system at the ARSO, followed by the backup system in RHMZ Serbia Belgrade and the other two backups in AVP Sava Sarajevo and in DHMZ Zagreb.

Mr. Sarač emphasized that the development of a document for the post project organization is also ongoing.

In the period after the last PEG FP meeting, the following meetings of the project implementation bodies were held:

- 3<sup>rd</sup> International Working Group (IWG) meeting in Belgrade, July 07
- 4<sup>th</sup> IWG meeting in Zagreb, October 10, followed by additional web meeting, November 03

- 3<sup>rd</sup> cycle of Country Working Group (CWG) meetings October 24 (in Slovenia and Croatia), and October 26 (in Bosnia and Herzegovina and Montenegro)
- 3<sup>rd</sup> Steering Board (SB) meeting in Zagreb, November 17.

Forthcoming activities are:

- Pre-release version 0.3 + training (Dec 2017)
- Release version 1.0 + training (Feb 2018)
- User Trainings (Mar 2018)
- Workshop (May 2018)
- Release version 2.0 (Sep 2018)
- Final Report (Dec 2018).

Mr. Sarač also stressed that the delay in delivery of IT hardware to the hosting organizations purchased, through activities of the 2<sup>nd</sup> phase of U.S. Government support, caused a certain delay in implementing the approved project work plan and therefore the need for extension of the project is recognized.

He informed the PEG that all documents and conclusions from the project meetings are available at the ftp folder: /WBIF/Component 2 - SavaFFWS/03-Meetings.

- PEG FP took note on the information.

More information can be found in presentation (*Ad.4\_Presentation on Development of Sava FFWS*).

#### **AD.5. U.S. GOVERNMENT SUPPORT – 2<sup>ND</sup> PHASE**

Mr. Zeljko shortly informed the PEG about the project progress and emphasized that the current efforts in this project now are focus on acquiring and implementing new geometry (LiDAR based data) and other input data into the updated Sava River mainstem hydraulic HEC-RAS model.

After the introduction Mr. Zeljko gave a live demo of the Sava RAS model capabilities and stressed that the model is already implemented within the Sava FFWS pre-release 0.3 version.

The PEG members from Serbia offered to deliver the additional and more accurate data for to the Bosut gate.

- PEG FP took note on the information.

#### **AD.6. EXCHANGE OF INFORMATION ON FLOOD RELATED PROJECTS**

Mr. Sarač shortly informed on the current status of collection of information on the projects and gave a live demo of the SavaGIS Metadata Catalogue and detailed instructions on how to enter new and edit existing data in the Metadata Catalogue.

The PEG members for Serbia informed the PEG that all information on the projects in Serbia are updated prior to the PEG 32.

The PEG took note on the information and concluded:

- PEG FP will update information in the Sava GIS Metadata Catalogue as soon as possible.

#### **AD.7. SAVA GIS**

M. Sarač informed the PEG that several improvements of the current Sava GIS Geoportal functionalities were already implemented with the external technical assistance while the following activities are planned to be implemented in due course. In order to ensure efficient and effective

functionalities of the Sava GIS, M. Sarač stressed that the system security is also very important issue, especially given that the parts system (e.g. Sava HIS) becomes an integral part of the Sava FFWS. The lack of security and potential risks has been recognized in the configuration of the current IT-GIS system and therefore a draft proposal for an IT system upgrade has been prepared to enable advanced control and configuration rules for access rights to both local and external users of the complete ISRBC's IT system, including SavaGIS. He stressed that the necessary hardware equipment for the system security upgrade, purchased within the 2<sup>nd</sup> US Government support, is expecting to be delivered soon.

M. Sarač also informed the PEG that an external IT-GIS expert for short-term period has been engaged for the maintenance of Sava GIS, the entire IT infrastructure, the participation in work of the ISRBC expert groups, and for the carrying out all other tasks according to the needs, especially the obligations of ISRBC that will arise after the establishment of Sava FFWS.

He stressed that the preparatory activities on integration of the existing navigation management applications within the unique SavaGIS platform are ongoing, with the ultimate goal of merging the data related to navigation at SavaGIS Geoportals to establish the navigation module, planned by the Sava GIS Strategy.

Mr. Sarač also informed the PEG about the huge work and efforts of the Secretariat and the PEG GIS members between two meetings related to the FRM data collection and stressed that the following FRM related datasets are currently available in the central Sava GIS FRM database:

- PFRA (for HR, SI, RS)
- APSFR (for all countries, except ME)
- Flood Hazard Maps (for BA Fed, HR, SI, RS)
- Flood protection structures (for BA, HR, RS).

He also pointed out that the missing data are as follows:

- PFRA (for BA Fed, BA RoS, BA DB, ME)
- Flood Hazard Maps (for BA RoS, BA BD, ME)
- Flood Risk Maps (for all countries)
- Flood protection structures (for SI, ME).

The PEG was informed that the PEG GIS at its 16<sup>th</sup> meeting, held in October 05, 2017, agreed as follows:

- PEG GIS members from Bosnia and Herzegovina will upload the remaining Flood Hazard Maps for the Vrbas River Basin in the entity of Republika Srpska as soon as possible (Dec 01)
- PEG GIS members from Bosnia and Herzegovina will convert the available Flood Risk Maps for Bosnia and Herzegovina (FBiH) into the Sava GIS format, which are already delivered through the Sava FRMP project and uploaded in Sava GIS as soon as possible (Dec 01)
- PEG GIS members from Croatia and Slovenia should deliver the national Flood Risk Maps as the URL links to feature-class table of Flood Hazard Maps layer as soon as possible (Dec 01)
- PEG GIS members from Slovenia will merge the divided Flood Hazard Maps for Slovenia and import in Sava GIS as soon as possible (Dec 01)
- The data on Flood Protection Structures for Slovenia will be delivered as soon as possible.

Mr. Sarač introduced to the PEG a GIS tool for the assessment of effects of measures on flood risk, so called Florian, developed by the ICPR (Rhine Commission). He stressed that the Secretariat working jointly with the Sava FRMP consultants investigating the possibilities of usage of this tool in the Sava River Basin.

The PEG took note on the information and concluded:

- The countries will upload the remaining and available data as soon as possible
- The PEG FP members will communicate with the PEG GIS members about the upload of agreed data
- PEG FP will send a decision, until December 20, regarding the publicly available layers on the Geoportal, in addition to APSFR, for the following datasets:
  - PFRA (Flood Events)
  - Flood Hazard Maps
  - Flood protection structures
- The presentation of the ICPR Florian tool will be organized in one of the next PEG meetings.

More information can be found in presentation (*Ad.7\_Presentation on SavaGIS*).

#### **AD.8. OTHER RELEVANT PROJECTS AND ACTIVITIES**

##### *Outline of the Climate Adaptation Strategy and basin-wide priority measures for the Sava River Basin*

Mr Grošelj, deputy Secretary of ISRBC, informed the PEG on activities related to the development of the Climate Adaptation Strategy and basin-wide priority measures for the Sava River Basin. At the level of the Sava Commission *the Outline of the Climate Change Adaptation Strategy and priority measures for the SRB* has already been developed aiming to secure the consistency with the ICPDR's regional adaptation strategy, to identify some priority basin-wide measures and to suggest modalities and cost estimates for the full development of the strategy and its action plan as it has been required in the Declaration of the 6<sup>th</sup> meeting of the Parties. On October 23-24 2017, the workshop on the Outline of the Climate Adaptation Strategy and basin-wide priority measures for the Sava River Basin was held in Belgrade (RS). The workshop was organized in cooperation of French Ministry of Ecological and Inclusive Transition, the International Office for Water (IOWater), United Nations Economic Commission for Europe (UNECE) and the International Sava River Basin Commission (ISRBC). Main topics of the workshop were: Climate change adaptation activities of the ISRBC, UNECE, IOWater and International Commission for protection of Danube River (ICPDR); Climate change adaptation activities at the Sava riparian countries' level (Slovenia, Croatia, Bosnia and Herzegovina, Serbia and Montenegro); Draft of the Outline of the Climate Adaptation Strategy and basin-wide priority measures for the Sava River Basin and Group discussion on climate change scenarios, impacts and adaptation measures. It was stressed that as for many places in Europe it is expected more frequent and more intense extreme weather events will take place more often in the region. There are longer periods of drought and shorter and locally distributed periods of intense precipitation in the future predicted in all countries with an increasing risk of flooding.

*The Outline of the Climate Change Adaptation Strategy and priority measures for the SRB* will be basis for finding financial support for the development of the Climate Adaptation Strategy and basin-wide priority measures for the Sava River Basin.

##### *Use of Satellite Communication in the Flood Forecasting and Warning and Emergency Situations*

At the 31<sup>st</sup> PEG FP meeting, Mr. Tihomir Divjak, representative of the GoForeSight Institute from Ljubljana (GFS Institute), presented information to the PEG about the Pilot project proposal on Use of Satellite Communication in the Flood Forecasting and Warning and Emergency Situations, as an initiative to enable more efficient monitoring of flood events throughout the Sava river basin, during periods in which all other transmitting systems are interrupted. PEG FP took note on the information and asked Mr. Divjak to provide the Pilot project proposal to the PEG FP members via Secretariat.

After the 31<sup>st</sup> PEG FP meeting, the Secretariat has delivered the Pilot project proposal to the PEG members and a Proposal for the letter of explanation, provided by Mr. Divjak. Details are available in document (*Ad.8\_Use of Satellite Communication for Flood Protection-Summary Sheet*) and more

information can be found in background documents (*Ad.8\_BD1\_Use of Satellite Communication for Flood Protection-Pilot project proposal; Ad.8\_BD2\_Use of Satellite Communication for Flood Protection-Proposal for the letter of explanation; Ad.8\_BD3\_Use of Satellite Communication for Flood Protection-Relevant information*).

- PEG FP took note on the overall information about the Pilot project, supported the initiative and asked to be regularly informed on its progress.

*Transboundary Training Workshop - Governance and Technology for Flood Risk Reduction: linking early warning to emergency operational phases in the Sava River Basin*

Mr. Sarač briefly informed the PEG FP about the progress of the workshop preparation, which was already introduced to the PEG at the previous meeting.

- The PEG took note on the information.

Ms. Milovanović invited once more all PEG members, which were already officially invited, to participate at the workshop.

More information can be found in presentation (*Ad.8\_ Workshop on Governance and Technology for Flood Risk Reduction*).

**AD.9. ANY OTHER ISSUES**

The next 33<sup>rd</sup> meeting of PEG FP will be held in March 2018, back to back with the Sava FRMP Stakeholder meeting.

## ANNEX I. LIST OF PARTICIPANTS

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## ANNEX II. LIST OF DOCUMENTS

Agenda item	Document	ENG	HRV	SLO	BIH-BOS	BIH-HRV	BIH-SRP	SRP
1.	Ad.1. PEG FP_32th meeting_AdoptedAgenda.docx	↓						
2.	Ad.2_Presentation on ISRBC activities_PEG FP 32.ppt	↓						
3.	Ad.3_Development of SavaFRMP - documents							
	Ad.3_1 <sup>st</sup> CWG meeting_MoM_Final.pdf		↓					
	Ad.3_2 <sup>nd</sup> CWG meeting_MoM_040118.docx		↓					
	Ad.3_1SavaFRMP - Nacrt 191117.docx	↓	↓					↓
	Ad.3_2SavaFRMP - PFRA - 20171119.docx	↓						
	Ad.3_3Sava FRMP - Predlog metodologije za karte rizika - v1 151117.docx	↓						↓
	Ad.3_3SavaFRMP - FHRM - 20171119.docx	↓						↓
	Ad.3_4SavaFRMP - Zajednicki ciljevi FRMP - v2 161117.docx	↓						↓
	Ad.3_5SavaFRMP - Katalog Mera - v1 191117.docx	↓						↓
	Ad.3_5SavaFRMP - Pregled Mera - v1 191117.docx	↓						↓
4.	Ad.4_SavaFFWS_WBIF_Component 2-Summary Sheet.pdf	↓						
	Ad.4_Presentation on Development of Sava FFWS.ppt	↓						
7.	Ad.7_SavaGIS-Summary Sheet.doc	↓						
	Ad.7_Presentation on SavaGIS.ppt	↓						
8.	Ad.8_Use of Satellite Communication for Flood Protection-Summary Sheet.pdf	↓						
	Ad.8_BD1_Use of Satellite Communication for Flood Protection-Pilot project proposal.docx							↓
	Ad.8_BD2_Use of Satellite Communication for Flood Protection-Proposal for the letter of explanation.docx							↓
	Ad.8_BD3_Use of Satellite Communication for Flood Protection-Relevant information.docx							↓

Documents are available at the PEG's ftp site.

