

INTERNATIONAL SAVA RIVER BASIN COMMISSION

Ref. No.: 3-17-5/3-2

Zagreb, 06 July 2017

31th Meeting of the Permanent Expert Group for Flood Protection

REPORT FROM THE MEETING

Zagreb, 06 July 2017

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

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I. ATTENDANCE

The PEG members from Slovenia, Croatia, Bosnia and Herzegovina and Serbia and guests from Montenegro attended the meeting. The Consultant representatives engaged for the development of Sava FRMP, as well as an expert from the GFS Institut Slovenia, also participated at the respective agenda item.

The list of participants is annexed to this report.

II. CHAIRMANSHIP

Ms. Dragana Milovanović chaired the meeting.

III. ADOPTED AGENDA

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
 - Brief overview on the project progress in the Inception phase
 - Assessment of data/information and gap analysis
 - Review of the main issue raised during the discussion with the key stakeholders
 - Communication Strategy and visibility actions
 - Comments on the Inception Report
 - Discussion and conclusions (all participants)
- Implementation phase
 - Project organization and Work plan
 - Sava FRMP draft outline
 - Further steps
 - Discussion and conclusions (all participants)
 - Status of the “WBIF” project - component 1
 - Discussion & conclusions

4. Development of the Flood Forecasting and Warning System for the Sava River basin

- Status of the “WBIF” project - component 2
- Discussion and conclusions

5. U.S. Government support – 2nd phase

- Sava LiDAR
- Hydraulic modelling
- Discussion and conclusions

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
- Discussion & conclusions

8. Other relevant projects and activities

- Use of Satellite Communication for Flood Protection
- 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

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, as well as guests from Montenegro and project experts and informed the participants on some logistical issues.

Ms. Milovanović informed the PEG FP on the Decision – 14/17 of the 46th Session of ISRBC and noted that from now on will be the Chairman of PEG FP. She also introduced and welcomed the new PEG FP members from Serbia.

Adoption of the Agenda

PEG FP adopted the proposed agenda of the 31th meeting (*Doc.Ref.No: 3-17-5/2-2*), with agenda items presented in Part III of this report. (Meeting document: *Ad.1. PEG FP_31th meeting_AdoptedAgenda*).

AD.2. ISRBC ACTIVITIES BETWEEN THE TWO PEG FP MEETINGS

Presentation on the ISRBC activities

On behalf of the Secretary, Mr. Dragan Zeljko, who could not participate in the meeting, Ms. Milovanović informed the PEG FP on the most important activities and events since the last, 30th PEG FP meeting held in March 2017, as well as on the upcoming meetings and events.

More information can be found in presentation (*Ad.2_Presentation on ISRBC activities_PEG FP 31*).

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 Strategic Environmental Assessment for national FRMP is in the adoption procedure, after which the 1st FRMP cycle would be finally completed for Slovenia. He pointed that some of the non-structural and structural measures foreseen by the FRMP are already in the implementation through the ongoing projects, e.g. FRISCO.

Mr. Štravs has also stressed that the Protocols to the FASRB (Prevention of Water Pollution caused by Navigation and Sediment Management) are in the final stage of ratification.

Croatia

Mr. Marijan Babić informed the PEG that the implementation of the national FRMP ongoing in Croatia along with the preparation step for the update of PFRA report. He pointed out that around 150 mil. EUR, for the implementation of the structural and non-structural measures, are provided through the national funds, while some measures will be implemented through the Interreg projects (FRISCO, FORRET, etc.).

Bosnia and Herzegovina

Mr. David Latinović and Mr. Almir Bajramlić informed the PEG about the current status in the flood risk management planning related to the flood maps preparation and the LiDAR surveying. They stressed that so called the Vrbas project (for flood maps preparation), which is implemented by the UNDP office in Bosnia and Herzegovina, is in the final stage and should be finalized in September 2017.

Serbia

Mr. Darko Janjić informed the PEG that amendments to Water Law, partly harmonized with EU WFD, have been adopted. The Water Law will be completely harmonized with EU WFD within the 2017, and bylaws up to the end of 2018. He stressed that the public water companies, in the field of RBM, have started with delineation of water bodies for the catchments from 10 to 100 km² while the typology is ongoing. Mr. Janjić emphasized several projects related to the flood risk management planning and noted that the draft Flood Risk Management Plan was prepared but not adopted, while the Water Management Strategy for Serbia up to 2034, which has been adopted early in 2017, foreseen a strengthening of the awareness for the flood defense of big cities.

Ms. Marina Babić-Mladenović informed that the Disaster Risk Management Plan for Serbia, which will include the flood risk, among all kind of disasters, will be prepared until end 2017.

Mr. Božidar Beloš pointed out relevant information about ongoing flood related projects which are in implementation in Vojvodina. He also stressed that the European Integration Fund financing the preparation of a joint Action Plan for the Flood Defense Emergency Situations for Vojvodina and Croatia.

Montenegro

Ms. Dragana Đukić and Darko Novaković 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. They stressed that in last couple of years the Water Law has been completely harmonized with EU WFD and the Government of Montenegro has adopted the Water Management Strategy of Montenegro (30.06.2017.).

Ms. Đukić emphasized that a project for the EU Floods Directive implementation is planned through IPA funds, whose approval is expected in September 2017, while the deadlines for individual phases of the FRMP development by negotiating position are as follows:

- PFRA – 2019
- FHR maps – 2021
- FRMP – 2024.

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 (development of the Sava FRMP) and as an introduction to this agenda item, indicated that this session is in fact continuation of work of the Inception meeting, held a day before, in order to discuss in detail certain issues and, if necessary, adopt the appropriate conclusions that will serve the Consultant (EPTISA) in further work on the Sava FRMP development.

Minutes of meeting of the Inception meeting are in Annex III of this report, where all related information and recommendations from the meeting are provided.

Ms. Višnja Omerbegović, representative of the Consultant gave an overview of the main issues discussed on the yesterday's meeting on the main activities of the inception phase and planned activities in forthcoming period as well as presented the first draft of Sava FRMP outline. Details can be found in the presentation (*Ad.3_Presentation on Development of Sava FRMP_EPTISA*) while the draft Outline in the document (*Ad.3_SavaFRMP_WBIF_Component 1-First Outline_draft_03072017*).

After the Consultant's presentation all the participants discussed specific issues of the draft IR and the draft Outline, with following conclusions:

- the Consultant will prepare the next version of the draft IR after the period for comments expired (July 21st) as well as the overview table of comments. The new version of the draft IR should be send to the beneficiaries and the PEG FP on July 28th
- the Consultant will prepare the list of principals which would be used for the Sava FRMP development taking into account all principals already defined within the Program for Sava FRMP development. The list of principals should be part of the new version of the draft IR

- the Consultant should correct and improve the draft Outline in accordance with the given suggestions on specific chapters as well as on the background documents. The new version of draft Outline should be send to the ISRBC Secretariat until August 14th
- the Consultant should prepare, in accordance with the given suggestions, the draft conclusions on PFRA and FHR maps as well as the draft simplified methodology to assess the risk on the basin-wide level, and all for the purpose of the 1st Core Working Group (CWG) meeting. The draft documents should be send to the ISRBC Secretariat until September 6th
- the Secretariat will ask the countries to nominate the CWG members urgently, in accordance with the conclusion of the 46th ISRBC Session on the CWG establishment and inform the Consultant on the composition as soon as possible
- the next project meeting (CWG 1), planned for September 12th, will be held in mid-September and exact date will be determined in due course.

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) stressing that after the PEG FP 30 several activities within the project component has been done. Parallel to a first operational pre-release (was delivered in February), which is running at ARSO for testing purpose, on June 13th the second pre-release was delivered and the training workshop was held (in ARSO). At the workshop the pre-release 0.2 was presented according to planning and specifications. The focus of this second pre-release was to implement the hydrological and hydraulic models and to connect them to operational telemetry data and numerical weather predictions. The forecasting system is operationally running. In the next releases, the forecasting system will be extended with features like data assimilation, uncertainty predictions, next to forecast dissemination and installation of backup system components.

He stressed that the 2nd International Working Group (IWG) meeting and the 2nd Steering Board (SB) meeting were held in Zagreb on March 31 and April 11, respectively, as well as the 2nd round of the Country Working Groups (CWG) meetings in period of April/May.

Forthcoming activities are:

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

After the presentation Mr. Sarač gave a live demo of the Sava FFWS pre-release 0.2.

- PEG FP took note on the information.

Mr. Babić, pointed out the official position (from the ToR preparation period) that the distributed physically based hydrological model (using Wflow), should be implemented in the direct beneficiary countries only (BA, RS and ME). Mike model results and forecasts should be used.

Mr. Štravš has supported the statement about the implementation of the distributed physically based hydrological model for the direct beneficiary countries only. He also emphasized the support to the Sava FFWS project as well as the need to define ways of securing funds for the system maintenance.

Details on the project activity are available in document (*Ad.4_SavaFFWS_WBIF_Component 2-Summary Sheet*) and more information can be found in presentation (*Ad.5_Presentation on Development of Sava FFWS*).

AD.5. U.S. GOVERNMENT SUPPORT – 2ND PHASE

Mr. Sarač informed the PEG about the project progress. He gave an overview presentation and emphasized that after the hydrologic model for the Sava River Basin was completed and the final models were distributed, the current efforts in this project now are focus on acquiring and implementing new LiDAR data into the updated Sava River mainstem hydraulic model.

Mr. Sarač stressed that the Consultant for the LiDAR data collection, Fly Com d.o.o. Slovenia has submitted DEM data of the entire project area and a quality control report for this delivery has also been done by the german QC project authority.

Flycom has performed the corrections based on received report findings and has presented the results of these corrections so the final report is expected. Digital orthoimagery is in the process of quality control.

Once the LiDAR derived products are completed, the USACE experts will, assisted by the Secretariat, start with setting up of a new geometry of the model. The results from the calibrated hydrological HEC-HMS model, will then be used in hydraulic modelling. It is expected that the fully calibrated Sava HEC-RAS model will be completed by end of September 2017 and delivered to ISRBC.

Mr. Sarač informed the PEG members about the purchase procedure of IT equipment. He stressed that IT equipment will be used for delivery of the results of activities in the 2nd phase of support of the US Government to the Sava countries and that part of the equipment will be used for Sava FFWS, which will integrate the results of activities in the 2nd phase of support.

PEG FP took note on the information and after a short discussion concluded:

- The possibility of the LiDAR data collection on the Sava tributaries for all other purpose should be investigate
- A comparison analysis of the results of new hydraulic model using new and old geometry should be done.

Details on the project activities are available in document (*Ad.5_US Government support 2nd phase-Summary Sheet*) and more information can be found in presentation (*Ad.5_Presentation on U.S. Government support – 2nd phase*).

AD.6. EXCHANGE OF INFORMATION ON FLOOD RELATED PROJECTS

Mr. Sarač presented the current status of collection of information on the projects. He noted that the Secretariat imported into the SavaGIS Metadata Catalogue all information on projects received before and after the PEG FP 30, as well as created the SavaGIS accounts for all members of the PEG FP, as concluded at previous meeting.

Therefore any further exchange of information should be carried out via Metadata Catalogue, stressing that after upload of the new information the Secretariat should be informed.

- The PEG took note on the information.

More information can be found in presentation (*Ad.6_Presentation on Exchange of information on flood related projects*).

AD.7. SAVA GIS

Mr. Sarač informed the PEG about the amount of the FRM data collected and imported into the SavaGIS central database after the PEG FP 30 and the PEG GIS 15 meetings, held on March 16, when the GIS experts were informed about the PEG FP conclusion related to the specific data needs for the Sava FRMP development, as follows:

- PFRA & APSFR
 - BA - should upload remaining attributes

- *HR - should check and confirm*
- Flood hazard maps
 - *BA - should upload spatial and attribute data, if any*
 - *HR - should check and confirm the data*
 - *RS - should upload spatial and attribute data, if any*
- Flood protection structures
 - *BA - should upload additional data, if any*
 - *HR - should upload spatial and attribute data*
 - *RS - should upload additional data, if any*
 - *SI - should upload spatial and attribute data.*

He noted that only Serbia successfully uploaded spatial and attribute data for the flood hazard maps and confirmed that all available data for the dataset on flood protection structures are already delivered, while Bosnia and Herzegovina delivered data for the one entity (BA Fed) in a format different than SavaGIS database format.

Mr. Sarač also stressed a need for the flood risk maps data.

The PEG took note on the information and concluded:

- The countries will upload the remaining and available data as soon as possible
- The Secretariat will inform PEG GIS about the conclusion and communicate with the GIS experts on data upload.

Details are available in document (*Ad.7_SavaGIS-Summary Sheet*) and more information can be found in presentation (*Ad.7_Presentation on SavaGIS*).

AD.8. OTHER RELEVANT PROJECTS AND ACTIVITIES

Use of Satellite Communication for Flood Protection

Mr. Tihomir Divjak, representative of the GFS Institute Slovenia, presented information to the PEG about the Pilot project proposal on Use of Satellite Communication for Flood Protection, 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.

Mr. Divjak stressed that for the implementation of the Pilot project would be used measurement devices and collection of hydro-meteorological data (Data Logger), which would be by means of professional Tooway equipment and satellite KASAT transmitted to a central HUB station where the received data will be processed and analysed. This integrated system in a given territory will provide data exchange (hydrological and meteorological) for the purpose of forecasting and early warning of potential danger of flash floods, catastrophic floods and other accidents.

He pointed out that with support and help from ISRBC, the GFS Institute is ready to actively engage in defining and elaborating this strategic and development oriented Pilot project.

- PEG FP took note on the information and asked Mr. Divjak to provide the Pilot project proposal to the PEG FP members via Secretariat.

Details are available in document (*Ad.8_Use of Satellite Communication for Flood Protection-Summary Sheet*) and more information can be found in presentation (*Ad.8_Presentation on Use of Satellite Communication for Flood Protection_GFS*).

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 workshop initiative which is planned in cooperation with the UNESCO Venice Office, as a continuation of the workshop held in 2015 as well as concrete contribution of the I REACT project presented at the previous meeting. Mr. Sarač emphasized that idea was born during the Sava FFWS pre-release 0.2 delivery workshop when the UNESCO representatives and the I REACT project consultants were invited in accordance with the PEG FP 30 conclusion.

He explained that the initiative has the ambition to help bond early warning alerts triggered by the responsible national hydro-meteorological services and water agencies as flood forecasting operators, through the Sava FFWS, with monitoring, response and flood protection actions performed by the civil protection sector as emergency responders using May 2014 historical flood event case as a simulating scenario.

Specific objectives of the workshop are:

- To raise the awareness and understanding among relevant stakeholders of the potentialities offered by the common use of integrated systems and tools for monitoring, forecasting, alerting and reporting in the entire flood risk management cycle
- To identify major obstacles and possible solution at the Sava River Basin level to empower local governance capacity for disaster/flood risk reduction in the elaboration of sound governance solution with a sub-regional perspective
- To set up a background for preparation of the proposals of Mechanisms of coordination on the basin-wide level and the Modes of cooperation of the Sava countries in the flood defense emergency situations including the arrangements in the basin for preparedness (forecasting and warning) and the measures for mitigation of transboundary impacts, in line with Article 11 of the Protocol on Flood Protection to the FASRB.

Target audience are representatives of relevant emergency responders / civil protection agencies, river basin management authorities and hydro-meteorological services as well as the professional volunteers representatives from the Sava countries. The workshop will also invite targeted stakeholders from the Drin River Basin.

The PEG took note on the information and concluded:

- The workshop will be held in early December 2017 in Zagreb
- The PEG FP members from Slovenia and Croatia (or representatives of their institutions) will actively participate at the workshop
- The Sava FFWS IWG members from Slovenia should be asked to actively participate at the workshop.

AD.9. ANY OTHER ISSUES

The next 32th meeting of PEG FP will be held in early December 2017, back to back with the Transboundary Training Workshop - *Governance and Technology for Flood Risk Reduction: linking early warning to emergency operational phases in the Sava River Basin*.

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_31th meeting_AdoctedAgenda.docx	⬇						
2.	Ad.2_Presentation on ISRBC activities _PEG FP 31.ppt	⬇						
3.	Ad.3_Presentation on Development of Sava FRMP_EPTISA.ppt	⬇						
3.	Ad.3_SavaFRMP_WBIF_Component 1-First Outline_draft_03072017	⬇						
4.	Ad.4_SavaFFWS_WBIF_Component 2-Summary Sheet.pdf	⬇						
4.	Ad.4_Presentation on Development of Sava FFWS.ppt	⬇						
5.	Ad.5_US Government support 2nd phase-Summary Sheet.pdf	⬇						
5.	Ad.5_Presentation on U.S. Government support – 2nd phase.ppt	⬇						
6.	Ad.6_Presentation on Exchange of information on flood related projects.ppt	⬇						
7.	Ad.7_SavaGIS-Summary Sheet.doc	⬇						
7.	Ad.7_Presentation on SavaGIS.ppt	⬇						
8.	Ad.8_Use of Satellite Communication for Flood Protection-Summary Sheet.pdf	⬇						
8.	Ad.8_Presentation on Use of Satellite Communication for Flood Protection_GFS.pptx	⬇						
8.	Ad.8_Transboundary Training Workshop-Summary Sheet.pdf	⬇						
8.	Ad.8_Transboundary Training Workshop_Draft Programme.docx	⬇						

ANNEX III. SAVA FRMP DEVELOPMENT - INCEPTION MEETING MINUTES

Plan upravljanja rizicima od poplava u slivu rijeke Save



POČETNA FAZA PROJEKTA SASTANAK S KORISNICIMA

NACRT ZABILJEŠKE

Zagreb, 5. srpnja 2017.

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1. DNEVNI RED

11.00 - 11.15 1. Otvaranje sastanka

- 1.1. Dobrodošlica i uvodne napomene (ISRBC)
- 1.2. Uvod u dnevni red (V. Omerbegović, Eptisa)

11.15 - 12.45 2. Rezultati Početne faze

- 2.1. Opći pregled rezultata iz nacrt Početnog izvješća (V. Omerbegović)
- 2.2. Pregled dokumenta, podloga i informacija (D. Kunštek, D. Singer)
- 2.3. Analiza raskoraka (D. Kunštek, D. Singer)
- 2.4. Pregled glavnih nalaza proizašlih tijekom diskusije s glavnim korisnicima (V. Omerbegović, D. Kunštek)

12.45 - 13.30 RUČAK

13.30 - 14.30 2. Rezultati Početne faze (nastavak)

- 2.5. Komunikacijska strategija i vizualizacije (Z. Bogunović)
- 2.6. Komentari na nacrt Početnog izvješća (D. Kunštek, D. Singer)
- 2.7. Rasprava i zaključci

14.30 - 14.45 PAUZA ZA KAVU

14.45 - 15.15 3. Faza provedbe

- 3.1. Nacrt 1. Sava FRMP (V. Omerbegović)
- 3.2. Zadaci i podloge (dokumenti) za:
 - 3.2.1. Aktivnost B: Uspostava elemenata Sava FRMP (D. Kunštek)
 - 3.2.2. Aktivnost C: Dizajn i implementacija Sava GIS baze podataka za FRM (D. Singer)
 - 3.2.3. Aktivnost D: Uključivanje dionika i javnosti (Z. Bogunović)
- 3.3. Rasprava i zaključci

15.15 - 15.45 4. Organizacija projekta

- 4.1. Uvod (V. Omerbegović)
- 4.2. Plan rada: Aktivnosti i sastanci (V. Omerbegović)
- 4.3. Upravljanje projektom i nadzor (V. Omerbegović)
- 4.4. Rasprava i zaključci

15:45 - 16.00 5. Rezime sastanka

- 5.1. Ostala pitanja
- 5.2. Rezime zaključaka i akcije

16.00 6. Završetak sastanka

2. ZABILJEŠKA SA SASTANKA

Priprema zajedničkog Plana upravljanja rizicima od poplava na slivu rijeke Save (engl. Flood Risk Management Plan in the Sava River Basin; u daljem tekstu *Sava FRMP*) je projekt koji se provodi u okviru *Investicijskog okvira za zapadni Balkan (WBIF)*.

Početno sastanak (Inception meeting) dionika i Konzultanta u cilju prezentiranja Početnog izvješća i prikupljanja komentara, održan je 5.07.2017. godine u Hotelu Internacional u Zagrebu.

AD.1 UVOD

Ad.1.1 Dobrodošlica i uvodne napomene (ISRBC)

G-din. Zoran Bogunović, Ekspert za odnose s javnošću je u ime Konzultanta (Eptisa) izrazio dobrodošlicu svim sudionicima

G.-din Igor Palandžić, Operativni voditelj projekta i predstavnik Svjetske banke koja je zadužena za provedbu projekta financiranog od strane Western Balkan Investment Fund (WBIF) je poželio sudionicima dobrodošlicu i uspješan sastanak.

Dobrodošlicu je u ime Savske komisije poželjela g-đa. Draga Milovanović. Potvrdila je da je preuzela mjesto Zamjenik tajnika za integralno upravljanje slivom i vodno planiranje te da je u ime Tajništva Savske komisije zadužena za praćenje ovog Projekta.

G-din. Mirza Sarač (ISRBC) je pozdravio prisutne i informirao da su na sastanku prisutni predstavnici 12, od ukupno 19 institucija iz svih pet zemalja korisnica Projekta.

Ad.1.2 Uvod u dnevni red (V. Omerbegović, Eptisa)

U ime konzultanta, španjolske tvrtke Eptisa (u daljem tekstu Konzultant), prisutne je pozdravila g-đa. Višnja Omerbegović (Eptisa), Voditeljica projektnog tima. Kako su na sastanak došli novi predstavnici korisnika projekta, zamolila je da se svi kratko predstave. Lista sudionika je u [Dodatku 1](#).

Nije bilo primjedbi na dnevni red.

AD.2 REZULTATI POČETNE FAZE

Ad.2.1 Opći pregled rezultata iz Nacrta Početnog izvješća (V. Omerbegović)

V. Omerbegović je rekla da su izvršene Aktivnosti A, sukladno Projektnom zadatku, (engl. Terms of Reference; u daljem tekstu ToR), a koje su uključile administrativne postupke, mobiliziranje Projektnog tima i uspostavu ureda Projekta; pregledavanja postojećih pravnih i tehničkih podloga za izradu nacionalnih planova upravljanja rizikom od poplava (FRMP) u državama korisnicama projekta; pregled planskih i provedbenih dokumenta, studija, raspoloživih informacija i podataka; analizu raskoraka, prije svega koji se odnose na podatke u bazi Sava GIS-a; te posjetima i razgovore s ključnim dionicima prema.

Naglasila je da je sustav upravljanja Projektom uspostavljen od samog početka.

Zatim je prezentirala strukturu Nacrta Početnog izvješća (engl. Inception Report; u daljem tekstu: IR).

U raspravi je ukazano na greške u «*Dodatku 4: Pregled propisa, Institucija zaduženih za upravljanje rizikom od poplava i operativnim planovima obrane od poplava*, vezano za BiH i poglavljju 1.5 *Korisnici* u kojem je izostavljen Distrikt Brčko.

Zaključeno je da će greške biti ispravljene, a da će Konzultant u periodi od 17.-21.7.2017 obići korisničke institucije u BiH, posebno Ministarstvo vanjske trgovine i ekonomskog odnosa (MVTEO) i Federalno Ministarstvo poljoprivrede, vodoprivrede i šumarstva (FMPVŠ), kako bi prikupio dodatne podatke o važećim propisima.

Konzultant će pregledati i ostale dokumente po zemljama korisnicama projekta koji su usvojeni u periodu izrade IR, kao i dokumente izrađene u okviru aktivnosti Savske komisije posebno novu *Analizu sliva rijeke Save*.

Ad.2.2 Pregled dokumenta, podloga i informacija (D. Kunštek, D. Singer)

Pregled dokumenata, podloga i informacija koje je Konzultant prikupio i analizirao u početnoj fazi dala je g-đa. D. Kunštek, Ekspert za upravljanje poplavama (Eptisa). Analiza je obuhvatila strateške i pravne temelje Savske komisije i zemalja korisnica projekta, dokumente vezane za provedbu pojedinih aktivnosti tijekom izrade nacionalnih FRMP (preliminarna procjena, izrada karata opasnosti i rizika od poplava, i FRMP) te ostale stručne i tehničke studije i izvješća projekata u tijeku (na temelju informacija iz baze projekata Savske komisije, a koje se odnose na poplave).

U ovom dijelu je prezentiran pregled statusa izrade nacionalnih FRMP po državama kao i pregled podataka koji su pohranjeni u Sava GIS FRM bazi podataka.

Vezano za *Zadatak B8: Prijedlog načela suradnje država u slivu Savi u slučajevima vanredne obrane od poplava, uključujući dogovore oko predviđanja i upozorenja na poplavu u slivu rijeke Save*, u raspravi je pojašnjeno da se zadatak odnosi na aktivnosti koje spadaju u smanjenje katastrofalnih posljedica poplava (kategorija Disaster Risk Reduction). Preporučena je tješnja suradnja s projektom u okviru *"Programme for Prevention, Preparedness and Response to Floods in the Western Balkans and Turkey - IPA FLOODS Lot 2"* čije rezultate treba dodati u prijedloge načela suradnje.

Vezano za *Zadatak C: Projektiranje FRMP modula baze i implementacija u Sava GIS*, navedeno je da su analizirani model podatka, funkcionalnosti aplikacija-portal (servisi za unos podataka) i aplikacije za ažuriranje i prikaza podataka. Uočeni su elementi koji nedostaju i bit će u fazi provedbe Projekta uključeni u nadogradnju.

Također je zatraženo da se svi prikupljeni/analizirani dokumenti stave na raspolaganje PEG FP i Savskoj komisiji. U tu svrhu koristit će se postojeći prostor rezerviran za Projekt na serveru Savske komisije.

Tijekom rasprave Hrvatska je naglasila da s obzirom da sve države posjeduju zakone, uredbe, Strategije, a neke i već usvojene Planove upravljanja rizicima od poplava, finansijske planove te druge obavezujuće dokumente, mogućnost značajnijih odstupanja od tih dokumenata nije moguća ili povlači za sobom značajna (pravna, finansijska, tehnička, administrativna....) usuglašavanja na nacionalnim i međunarodnim razinama. Radi toga bi za potrebe izrade Sava FRMP trebalo usvojiti i jasno istaknuti određena načela, koja su Konzultantu istaknuta da se mogu formulirati na temelju *Program za izradu Sava FRMP*. Jedno od načela treba biti da je "Vrijednost praga za planiranje na razini sliva rijeke Save u smislu veličine sliva rijeke 1000 km²".

Ad.2.3 Analiza raskoraka (D. Kunštek, D. Singer)

Uočene su određene nehomogenosti i nedostatci u GIS podacima (npr. opisni podaci o kartama opasnosti, ili o površinama APSFR područja).

U raspravi su sudionici sastanka dali pojašnjenja i ukazali da tamo gdje su korištene linije i točke za opis APSFR, nisu bili dostupni ostali podaci, odnosno samo su identificirani u prostoru takvi događaji, a dodatno je istaknuto da se zbog različitih metodologija koje su države (Slovenija i Hrvatska) koristile za izradu karata rizika od poplava, strukture podataka razlikuju te je za pohranjivanje istih u Sava GIS potrebno pronaći prihvatljivo tehničko rješenje.

Naglašeno je da u slučaju dijela BiH (Distrikt Brčko) i Crne Gore, obzirom da nemaju urađene PFRA izvještaje, treba uzeti u obzir mogućnost koju daje Direktiva o poplavama (engl. *Flood Directive*, u daljem tekstu FD) te definirati APSFR područja na osnovu raspoloživih podataka.

Institucije iz BiH su izvijestile da su od konzultanta koji radi na UNDP projektu za rijeku Vrbas (*Technology transfer for climate resilient flood management in Vrbas River Basin*) tražili da do početka rujna 2017. izvrše dodatne radove kako bi kompletirao podatke za karte opasnosti i rizika od poplava i onda ih FBiH i Republika Srpska ažurirali u bazi Sava GIS.

Agencija za vodno područje rijeke Sava će ponovo dostaviti, ranije isporučene podatke o kartama opasnosti i rizika od poplava za područje Ustikolina na rijeci Drini.

Ad. 2.4 Pregled glavnih nalaza proizašlih tijekom diskusije s glavnim korisnicima (V. Omerbegović, D. Kunštek)

D. Kunštek je dala pregled i kratak rezime sa sastanaka koji su održani s dionicima u razdoblju od 17.-26.5.2017.

V. Omebegović je kratko izvjestila o Uvodnom sastanku s korisnicima koji je održan je 26.04.2017. godine, sastancima s Tajništvom te glavnim zaključcima neformalnog sastanka s PEG FP članovima koji je održan u Ljubljani 11.5.2017.

Sastanci su pomogli u prikupljanju dodatnih informacija, relevantnih dokumenta i mišljenja dionika vezanih za potrebe i očekivanja od *Sava FRMP*.

Zaključeno je da će Tajništvo zatražiti od Republička Direkcija za vode Srbije dostavljanje liste mjera iz postojećeg (nezvaničnog) plana upravljanja rizicima od poplava.

Ad.2.5 Komunikacijska strategija i vizualizacije (Z. Bogunović)

Z. Bogunović je naglasio da je fokus u Početnoj fazi bio usmjeren na pripremu web-stranice Projekta, koja će se realizirati kao mikro web-stranica unutar web-stranice Savske komisije te da će ona značajno doprinijeti promociji Projekta, izvješćivanju tijekom provedbe projektnih aktivnosti te uključivanju i sudjelovanju javnosti u izradi *Sava FRMP*. Predloženo je da se na jednoj od web-stranica stavi galerija slika vezanih za poplavne događaje koje je prikupila Savska komisija kao i onih koje će prikupiti/načiniti Konzultant.

Ad.2.6 Komentari na nacrt Početnog izvješća (D. Kunštek, D. Singer)

IR je poslan svim dionicima u Word formatu kako bi primjedbe mogli direktno (uz «track-changes») uključiti u dokument.

Prezentirani su samo komentari koje je dostavilo Ministarstvo poljoprivrede i ruralnog razvoja Crne Gore. Zbog kratkoće roka za dostavu pisanih komentara, izostali su komentari ostalih dionika.

Hrvatske vode su dostavile komentar na IR 4.07.2017. koje Konzultant nije stigao analizirati prije sastanka.

U novu verziju nacrta IR, Konzultant treba uključiti sve komentare i predložiti načela za izradu *Sava FRMP*.

Komentare na IR treba prezentirati u dodatku u formi tablice s naznakom u kojem obliku je komentar uvažen, uz pojašnjение.

Rok za dostavu pisanih komentara na IR je produžen do 21.07.2017.

Ad.2.7 Rasprava i ostali zaključci

Rasprave po prethodnim točkama su navedene uz svaku točku posebno.

Od ostalih zaključaka, predstavnik iz BiH je sugerirao da Konzultant izradi nezvaničan prijevod dijela Projektnog zadatka, te da ubuduće prezentacije pripremi na jednom od jezika savskih zemalja (npr. hrvatskom), što je i prihvaćeno.

AD.3 FAZA PROVEDBE

Ad.3.1 Nacrt strukture Sava FRMP (V. Omerbegović)

V. Omerbegović je prezentirala nacrt strukture *Sava FRMP*. Istaknula je da je Konzultant uvažio prijedlog PEG FP da se 1. nacrt pripremi tijekom izrade IR. Naglasila je da je uz sadržaj koji je definiran Programom, konzultant dodao i poglavljje o indikatorima praćenja provedbe *Sava FRMP*.

U raspravi je posebice istaknuto da Konzultant obavezno treba uvažiti Danube FRMP kao krovni i koristan dokument za cijeli sliv Dunava. Mjere koje su definirane u tom dokumentu, a mogu se odnositi na sliv rijeke Save, treba uvažiti i tokom izrade *Sava FRMP*.

Nakon kratke diskusije Konzultantu ukazano je slijedeće:

- Nedostaju zaključci u *Poglavlju 4. Zaključci PFRA i Poglavlju 5: Karte FHRM*.
- Kod razvrstavanja mjera prema prioritetnom redoslijedu treba ići na pojednostavljenje.
- *Poglavlje 7: Sažetak mjera* treba rezultirati listom mjera.
- Struktura *Poglavlja 7* je preopširna. Izbaciti iz tog poglavlja *Ciljeve Okolišne Direktive, Klimatske promjene* i indikatore.
- Klimatske promjene trebaju biti zasebno poglavljje kako je predloženo *Programom*.

Kao primjedba je izneseno da se iz nacrta strukture *Sava FRMP* ne vidi kako će biti prezentirani dokumenti koji služe kao podloge za izradu *Sava FRMP* (background documents). Konzultant je potvrdio da je za svako poglavlje *Sava FRMP*, navedeno i koji će podloge biti izrađene.

Uvažen je prijedlog da ove podloge budu zasebni dokumenti i organizirano slično kao što je napravljeno za *Sava RBMP*.

Ad.3.2 Zadaci i podloge

Ad.3.2.1 Aktivnost B: Uspostava elemenata Sava FRMP (D. Kunštek)

Zaključke Sava PFRA izvještaja treba završiti čim prije.

Konzultant shodno ToR-u treba čim prije predložiti pojednostavljenu / simplificiranu metodologiju za definiranje zajedničkih rizika od poplava za glavni tok rijeke Save, kako bi se mogli procijeniti svi važniji rizici od poplava na slivu rijeke Save, s naglaskom na pozitivnim zajedničkim mjerama.

Vezano za zajedničke CB analize strukturnih i ne-strukturnih mjera, tijekom rasprave Slovenija je preporučila da se ide na pojednostavljene (obveza prema Aneksu A, čl. 5.) jer ni države članice EU nisu uspjele izaći s učinkovitim i jedinstvenim rješenjima. Metodologije i pristupi se razlikuju te je gotovo nemoguće naći zajedničku poveznicu.

U okviru Zadatka B8, V. Omerbegović je izvijestila da je Konzultant, na preporuku Svjetske banke sudjelovao na regionalnoj radionici "Protokola o prelasku granice i potpori zemlje domaćina" koja je organizirana u okviru "Prevencija, pripravnost i odgovor u slučaju poplava u državama zapadnog Balkana i Turskoj - IPA FLOODS Lot 2" 17 svibnja 2017. u Zagrebu. Radni paket (Lot 2) ima za cilj uspostavljanje protokola vezanih za prelaz granice, kao i pružanje potpore zemlji domaćina (engl. Host Nation Support; u dajem tekstu HNS). Paket sadrži kombinirane tečajeve i sastanke na nacionalnoj / multinacionalnoj razini s ciljem povećanja znanja o zakonom utvrđenim

mjerama vezanim za pripravnost, razmjenu postojećih dobrih praksi i promicanje nacrta protokola i sporazuma za prelazak granice.

Na radionici je prezentiran EU Mechanism Civilne zaštite, te je poseban naglasak stavljen na različite vrste treninga za pripadnike civilne zaštite ovisno o funkciji (npr: SMC – staff management course, OPM – operational management course, MBC - management basic course, itd.). Ukratko su predstavljeni i revidirani Protokoli za podršku prilikom prelaska granica i HNS koji sadrže osnovne podatke o operativnim centrima civilne zaštite zemalja učesnika u projektu; listu dokumentacije za opremu i osoblje kao i vozila koja su potrebna za prelazak granice; zadatke zemlje voditelja Mechanizma Civilne zaštite; određivanje mesta prelaska granice, te obrazac koji se popunjavaju kao zahtjev za prelazak granice i obrazac u koji se unose osobni podaci osoblja civilne zaštite. Zemlje učesnice između sebe kontaktiraju te određuju: zemlju koja je voditelj, način komuniciranja, itd. Istaknuto je i da većina zemalja učesnika u projektu ima zaključene bilateralne sporazume sa susjednim zemljama te djeluju sukladno istim, kao i svim ostalim relevantnim propisima država u koje ulaze (kao što je npr. zakon o državnoj graničnoj službi, zakon o carinama, itd.)

S pripadnicima službi civilne zaštite zemalja učesnika u projektu diskutiralo se o njihovim iskustvima u pružanju pomoći, te o tri modula koja su razvijena u okviru ovog projekta: 1) spašavanje čamcima (Boat Rescue – BC), 2) ispumpavanje vode pumpama visokog kapaciteta (High capacity pumping – HCP) i 3) gradnja vještačkih nasipa (Flood Containment - FC). Preostali dio radionice bio je posvećen radu u grupama koji se odnosio na organizaciju Nacionalnih timova Civilne zaštite, mjesto sastanka, polazak, vrsta opreme koju je potrebno ponijeti, zalihe hrane itd.

Radionici je prisustvovalo 20 učesnika iz sedam zemalja učesnika projekta.

I. Palandžić je naglasio da sinergija ova dva projekta zasigurno može doprinijeti iznalaženju načina suradnje i smanjenju posljedica od katastrofalnih poplavnih događaja.

Ad.3.2.2 Aktivnost C: Dizajn i implementacija Sava GIS baze podataka za FRM (D. Singer)

D. Singer, Ekspert za upravljanje podacima, je istaknuo da će u okviru Aktivnosti C biti nadograđena postojeća SavaGIS FRM baza podataka u koju će se pohranjivati podaci vezani za *Sava FRMP*. Sadržaj baze podataka uskladiti će se prema potrebama dionika i zahtjevima *Sava FRMP*. Proširenje postojeće baze podataka, a time i sadržaja, zahtijevati će proširenje sadržaja web GIS preglednika Sava GIS-a. Trebati će se nadograditi i ranije napravljena aplikativna rješenja za učitavanje podataka u centralnu bazu.

Ad.3.2.2 Aktivnost D: Uključivanje dionika i javnosti (Z. Bogunović)

Z.Bogunović je izvijestio da će Komunikacijska strategija biti izrađena do kraja srpnja 2017. Iako je komunikacija logično kontinuiran proces koji se odvija tijekom cijelog razdoblja provedbe Projekta, ipak je bitno razlikovati i istaknuti pojedine faze u provedbi komunikacijskih aktivnosti, bez obzira da li se one kronološki nadovezuju ili u nekim razdobljima provedbe projektnih aktivnosti i preklapaju, a koje uključuju: 1) inicijalnu komunikaciju s korisnicima i dionicima, razvoj komunikacijskih alata i uspostava komunikacijskih kanala; 2) promociju svrhe i ciljeva Projekta, razmjena informacija s korisnicima i dionicima u svrhu pripreme, odnosno izrade nacrta Sava FRMP; 3) predstavljanje nacrta Sava FRMP; 4) uključivanje javnosti i provedba procesa sudjelovanja javnosti u komentiranju nacrta Plana (web-stranica, konzultacijski sastanci i Forum dionika); i 5) izradu izvješća o provedenom procesu sudjelovanja javnosti i diseminacija finalne verzije Plana prema korisnicima, dionicima i zainteresiranoj javnosti.

Ad.3.2 Rasprava i zaključci

Zaključci po točki 3. su uvršteni u Ad.5.2.

AD.4 ORGANIZACIJA PROJEKTA

Ad.4.1 Uvod (V. Omerbegović)

V. Omerbegović je uvodu napomenula da rad na projektu zahtijeva veće kapacitete od predviđenih. Nedostaju eksperti (non-key) koje bi trebalo čim prije angažirati. To se posebno odnosi na sektor civilne zaštite i pravna pitanja (protokoli/procedure pravne naravi u kriznim situacijama) radi uobličavanja modela suradnje u vanrednim situacijama obrane od poplava u pravnu terminologiju / dokument i softver inženjer / IT programer radi nadopuna sadržaja SavaGIS web preglednika za razmjenu podataka (po mogućnosti ekspert iz tvrtke koja je razvila rješenje za SavaGIS).

Ad.4.2 Plan rada: Aktivnosti i sastanci (V. Omerbegović)

Konzultant je izvijestio da je napravljen detaljni Plan rada do kraja godine. U planu su poštovane preporuke da se za s PEG FP i Projektnu radne skupine (engl. *Core Working Group*, u daljem tekstu CWG) izrade podloge prema predloženoj dinamici sastanaka.

Zbog ostalih obveza Tajništva u rujnu 2017, može se dogoditi da će 1. Sastanak CWG biti pomaknut na 19.9.2017.

Ad.4.3 Upravljanje projektom i nadzor (V. Omerbegović)

V. Omerbegović je prezentirala organizacijsku i upravljačku strukturu

Kako je izrada *Sava FRMP* složen zadatak te zahtijeva visoku razinu koordinacije i stalnu suradnju između Konzultanta i dionika, preložena organizacijska i upravljačka struktura, u kojoj osim Tajništva i PEG FP sudjeluje i CWG, će zasigurno pomoći da se Projekt prilagodi potrebama svih njegovih dionika kao i da se pravovremeno i učinkovito izvrši.

Ad.4.4 Rasprava i zaključci

D. Milovanović je pojasnila da je potvrdu o osnivanja CWG dala Savska komisija na 46.-toj sjednici koja je održana 15.lipnja 2017. Određeno je da CWG čine po jedan član PEG FP-a iz svake države Strane i da su do 22. lipnja 2017. o imenovanju trebale izvijestiti Tajništvo. CWG će biti osnovana kada sve države Strane imenuju svoje članove, uz napomenu da je Crna Gora već imenovala svog predstavnika

AD.5 REZIME SASTANKA

Ad.5.1 Ostala pitanja

Konzultant je prihvatio prijedlog izrade nezvaničnog prijevoda dijelova ToR-a na jednom od jezika Savske komisije.

D. Milovanović će dostaviti prijevod *Protokola o zaštiti od poplava uz Okvirni sporazum o slivu rijeke Save* na srpskom jeziku.

Ad.5.2 Rezime zaključaka i akcije

1. Rok za dostavu pisanih komentara na IR je 21.07.2017.
2. Komentare na IR treba prezentirati u dodatku u formi tablice s naznakom u kojem obliku je komentar uvažen uz pojašnjenje.
3. Konzultant treba predložiti načela za izradu *Sava FRMP*, uvažavajući već definisana u okviru Programa za izradu Sava FRMP, te u novu verziju nacrta IR uključiti predložena načela.

4. Izrada *Sava FRMP* treba biti usklađena i sa principima operativne obrane od poplava.
5. Pri definiranju načela suradnje u vanrednim situacijama (Zadatak B8) treba koristiti rezultate IPA Floods, Lot 2 projekta.
6. Konzultant treba što prije treba dati prijedlog pojednostavljene metodologije za izradu karata rizika za glavni tok rijeke Save, kao i pojednostavljenu CB metodologiju za analizu strukturnih i nestrukturnih mjera vodeći računa o prekograničnom utjecaju.
7. U nacrt strukture *Sava FRMP* treba dodati i podpoglavlja zaključke za PFRA i FHRM, a ne samo pregledе po državama.
8. Tajništvo treba zatražiti od MPŠV Republičke Direkcije za vode Srbije dostavljanje liste mjera iz postojećeg (nezvaničnog) plana upravljanja rizicima od poplava.
9. BiH treba dostaviti podatke o mapama opasnosti i rizika od poplava za rijeku Vrbas, izrađene kroz projekat UNDP, najkasnije u rujnu 2017.
10. Konzultant će sve prikupljene i analizirane dokumente staviti na raspolaganje PEG FP i Savskoj komisiji.
11. Agencija za vodno područje rijeke Sava će ponovo dostaviti podatke o mapama opasnosti i rizika od poplava za rijeku Drinu na području Ustikoline jer su ranije dobiveni nečitljivi.
12. Konzultant će pregledati i ostale dokumente po zemaljama korisnicama projekta, kao i u okviru aktivnosti Savske komisije koji su usvojeni u periodu izrade IR, posebno novu *Analizu sliva rijeke Save*.
13. Konzultant će obaviti razgovore s institucijama u BiH (MVTEO i FMPVŠ) u razdoblju od 17.-21.7.2017. zbog dostave dodatnih podataka vezanih za zakonski okvir i ispravke postojećih navoda u IR.
14. Uvažiti primjedbe predstavnika Distrikta Brčko da se dodaju na listu korisnika Projekta (str. 10 IR), te ispraviti navod da nije dostavljena studija koju je radio UNDP.

AD.6 ZAVRŠETAK SASTANKA

Na završetku sastanka V. Omerbegović se zahvalila Tajništvu na svesrdnoj pomoći u svim provedenim aktivnostima tijekom Početne faze.

Predstavnici Tajništva kao i Svjetske banke su se također zahvalili svim sudionicima na aktivnom sudjelovanju i doprinisu koji su dali tijekom rasprave, te istakli da će se rasprava nastaviti i u okviru sutrašnjeg 31. PEG FP sastanka.

Sastanak je završio u 16:15.

3. DODATAK 1: LISTA SUDIONIKA

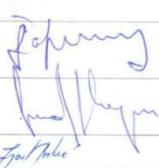
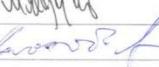
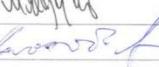
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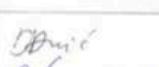
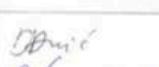
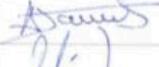
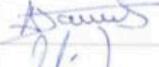
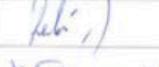
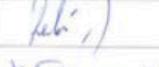
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13.07.2018
Zagreb

INCEPTION MEETING WITH STAKEHOLDERS
on implementation of the Project
“Flood Risk Management Plan for the Sava River Basin”
Zagreb, July 5, 2017

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