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17th PEG GIS Meeting Report

Zagreb, March 12-13, 2018

Venue: Secretariat of ISRBC, Kneza Branimira 29, 10000 Zagreb, Republic of Croatia

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I. ATTENDANCE

The PEG members from Slovenia, Croatia, Bosnia and Herzegovina and Serbia attended the meeting. The meeting was also attended by the representatives of Montenegro and the ICPDR Secretariat. The Consultant representative from EPTISA engaged within the Sava FRMP project, for design and implementation of the FRMP database module in SavaGIS, also participated at the respective agenda item.

The list of participants is annexed to this report.

II. CHAIRMANSHIP

Mirza Sarač, Chairman of the PEG GIS, chaired the meeting.

III. ADOPTED AGENDA

1. Opening of the meeting

- Welcome and opening remarks
- Adoption of the agenda

2. Overview of the activities between the two meetings

- Presentation on the ISRBC activities
- Tasks and duties regarding conclusions from the previous PEG meetings

3. Sava GIS

- Current status
- Proposal of the data encoding
- Proposal of the Sava GIS data access procedures

4. Data and metadata collection

- 1st Sava FRMP related data
- RBM and FRM related metadata

5. Design and implementation of the Sava FRMP database in Sava GIS

- Overview of the current status
- Review of the draft Sava FRMP database
- Proposal of implementation in Sava GIS
- Next steps

6. Sava GIS further developments

- IT system security upgrade
- Design and implementation of the Navigation database
- Discussion

7. Sava FFWS

- Overview of the current status
- Archive/Web Server
- Discussion

8. Strategy on implementation of the FASRB with Action plan for the period 2018-2023

- Introduction
- Sava GIS and data exchange issues

9. Work plan and way forward

- Work Plan for FY 2018
- Discussion

10. External projects and activities

- eVode Slovenia
- Current and ongoing activities in ICPDR – Danube GIS
- Knowledge and good practices transfer from Sava River Basin to Chu-Talas River Basin for building capacities of Chu-Talas Water Commission (CTWC) and key stakeholders - Knowledge transfer on Sava GIS/HIS

11. Other issues

IV. MINUTES OF THE MEETING

AD 1. OPENING OF THE MEETING

Welcome and opening remarks

M. Sarač opened the meeting and welcomed the PEG GIS members, representatives from Montenegro and ICPDR, as well as the Sava FRMP project expert and provided the information on certain logistical issues.

Mr. Momčilo Blagojević and Mr. Damir Gutić, the representatives from the Ministry of Agriculture and Rural Development of Montenegro, attended the PEG GIS meeting for the first time, so they have introduced their work and gave a short presentation of the GIS related activities in Montenegro.

M. Sarač also introduced and welcomed the new PEG GIS member from Croatia.

Adoption of the Agenda

PEG GIS adopted the agenda of the 17th PEG GIS meeting (*Ad.1_PEG GIS 17th_meeting_Adopted Agenda*, Doc. Ref. No.: 3-18-8/2-2).

AD 2. OVERVIEW OF THE ACTIVITIES BETWEEN THE TWO MEETINGS

Presentation on the ISRBC activities

Mr. Zeljko, the Secretary of ISRBC informed the PEG GIS on the most important activities and events since the last 16th PEG GIS meeting held in October of 2017, as well as on the upcoming meetings and events.

Mr. Zeljko informed the PEG members that Protocol on Prevention of Water Pollution caused by Navigation to the FASRB and the Protocol on Sediment Management to the FASRB entered into a force on October 8, 2017. He also pointed out that, based on the Sava Commission's conclusion Secretariat initiated the preparation of the Strategy on Implementation of the FASRB and Action Plan for the period 2018-2023.

Mr. Zeljko informed the PEG on continuation of activities related to the Regional Program is Joint Plan of Actions (JPA) for the Sava River Basin, presented at the previous meeting, which also delivered to the PEG after, and emphasized a dialogue between the WB and EU on Regional Program for the Integrated Development of the Sava and Drina River Corridor and forthcoming planned activities in the region related the process of discussion and implementation of this Regional Program and pointed out that's an opportunity for financing of further development of Sava GIS.

He pointed out several priority activities in 2018 and emphasized that the 7th Meeting of the Parties to the FASRB will be held in Slovenia on June 7, 2018.

More information can be found in presentation (*Ad.2_Presentation on ISRBC activities_PEG GIS 17*).

Tasks and duties regarding conclusions from the previous PEG meetings

M. Sarač briefly presented an overview of the tasks and duties regarding conclusions from the previous PEG meetings, and after a short discussion he stressed that most of the previously agreed activities have been implemented. The PEG members agreed that remaining tasks and duties will be implemented in due time, as soon as possible.

AD 3. SAVA GIS

Current status

M. Sarač briefly presented the statistical overview of the use of Sava GIS Geoportal with a comparison of public user login in different periods of six months, and stressed that the number of users especially from the Sava countries continuously increase.

He also informed the PEG that upgrade of the IT system security on server side is already implemented and stressed that the activities on integration of the existing navigation management applications and preparatory activities on development of the module for navigation as well as for other field of cooperation within the joint SavaGIS platform are still ongoing.

More detailed information is given under agenda item 6.

Proposal of the data encoding

Dragan Divjak, the engaged IT-GIS expert, gave a brief overview on the central Sava GIS database, presented some details related to the ID fields of specific attribute tables and stressed a clear need for unique ID coding. He pointed out several proposals how the encoding could be done and has mentioned the EU standards for this process, confirming that the Sava GIS is already compatible with the INSPIRE Directive and WISE standards.

The PEG members discussed this very important topic and supported that this issue should be solved in a most appropriate way, taking into account national codes and identifiers and concluded as follows:

- The Secretariat will prepare a proposal of the unique ID code for the basin level which will be implemented in the central Sava GIS database after approval of the PEG and thereafter used for mentioned purpose.

Proposal of the Sava GIS data access procedures

M. Sarač gave a brief overview of the list of existing Sava GIS registered users with the roles of data viewing, exporting and importing.

He also informed the PEG on recent requests for the Sava GIS data access and pointed out that request of the Federal Administration of Civil Protection - FUCZ from Bosnia and Herzegovina for WMS has been temporarily assigned but only for publicly available layers, after an approval of the PEG member from Bosnia and Herzegovina. The PEG supported this approval and assignment of the permanent WMS for this institution.

M. Sarač stressed a clear need for the procedures for data access and informed the PEG that this topic was also discussed at the 35th PEG RBM meeting, with respect to the RBM related data, with a conclusion that the PEG GIS should check whether the publishing of all GIS layers on the Sava GIS Geoportal is compliant with the national regulations. He also informed that an issue on the HPP layer is solve meanwhile and that the PEG RBM member from Slovenia has delivered an explanation related to the HPP layer and an approval for publishing with the suggestion that the PEG GIS members regularly control the compliance of publicly available Sava GIS layers with the national regulations.

The PEG was informed that the following relevant documentation for purpose of preparation of the Policy on the exchange of spatial data and information in the Sava River Basin – Sava GIS Data Policy has been already analyzed:

- INSPIRE Directive
- WISE - The Water Information System for Europe
- European Earth monitoring programme (GMES) - Regulation No 911/2010 and supplementing Regulation No 1159/2013 by establishing registration and licensing conditions for GMES users and defining criteria for restricting access to GMES dedicated data and GMES service information
- Copernicus data and dissemination policy

- EFAS open data policy
- ICPDR's Policy on data sharing and usage in the Danube River Basin GIS (Nov.12, 2015) and Guidance on the Reporting of Danube River Basin GIS Metadata (Jun.10, 2015).

After a discussion the PEG agreed further steps in preparation of the Sava GIS Data Policy concluded the following:

- PEG GIS will deliver all relevant regulation, including national for the preparation of the draft Sava GIS Data Policy by March 30
- The Secretariat will prepare the outline of the draft Sava GIS Data Policy and deliver to PEG GIS for review by April 13
- The Secretariat will prepare the 1st draft Sava GIS Data Policy which will be presented and discussed on the next PEG meeting.

More information on all three items can be found in presentation (Ad.3_Presentation on Sava GIS - data access procedures), available at the PEG's ftp site.

AD 4. DATA AND METADATA COLLECTION

1st Sava FRMP related data

M. Sarač gave a short presentation on the available FRM related data in Sava GIS and reminded the PEG GIS on the tasks from the previous meeting(s) and also presented the conclusions from the 32nd PEG FP about necessity of data delivery for the development of Sava FRMP.

The PEG GIS concluded the following:

- 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 well as convert the available Flood Risk Maps for the entity of Federation into the Sava GIS format and upload as soon as possible. Assistance for the necessary conversion into the Sava GIS format will be provided by the Sava FRMP project consultant.
- PEG GIS members from Croatia and Slovenia should deliver the national Flood Hazard Maps as the URL links to feature-class table of Flood Hazard Maps layer, as soon as possible.
- PEG GIS members from Slovenia will merge the divided Flood Hazard Maps for Slovenia and import in Sava GIS, as soon as possible.

RBM and FRM related metadata

D. Divjak informed the PEG on results of the test of metadata migration from Danube GIS in the Sava GIS Metadata Catalogue. He pointed out the differences between Danube GIS metadata profile used for description of datasets taken for the 2nd SRB Analysis and current SavaGIS profile. Therefore, he proposed to use the Danube GIS metadata profile, for the purpose of migration of existing metadata while for future metadata collection the Sava GIS metadata profile should be used, taking into account that compatibility of two metadata profiles will be additionally tested after implementation of the new Danube GIS metadata profile.

After a short discussion the PEG GIS concluded the following:

- The Secretariat will import in the Sava GIS Metadata Catalogue all available metadata from Danube GIS, related to the existing datasets of the 2nd SRB Analysis.

More information on both items can be found in presentation (Ad.4_Presentation on Data and metadata collection), available at the PEG's ftp site.

AD 5. DESIGN AND IMPLEMENTATION OF THE SAVA FRMP DATABASE IN SAVA GIS

Overview of the current status

Davorin Singer, the EPTISA's consultant, presented the current status of the Sava FRMP project implementation and pointed out a progress on activities important for development of the FRMP database module within Sava GIS.

PEG GIS took note on the project status.

Review of the draft Sava FRMP database

D. Singer presented a new design of the Sava FRMP database and stressed significant extension of the current Sava GIS FRM database model especially related to the datasets for APSFR and Flood Hazard and Risk Maps. These extensions are results of new version of the Guidance for Reporting under the Floods Directive 2017. On the other hand, datasets for PFRA and Flood protection structures are unchanged.

He also pointed out that a new content related to the FRMP dataset (Summary information of FHRMs on level of UoM and Flood Risk Management Plan), which consists only attribute tables, are linked to the national APSFRs, i.e. to the Areas of Mutual Interest for flood protection on the Sava River basin level.

PEG GIS discussed about the new database design and emphasized that after its finalization and upgrade of the Sava GIS FRM module, the new database will be used for alignment of the national databases.

- PEG GIS concluded that will review the proposal and send the comments on the new database design by March 30.

Proposal of implementation in Sava GIS

With respect to the upgrade of existing Sava GIS FRM database as well as a new database content (FRMP), D. Singer pointed out that all changes will be also implemented at the Sava GIS Geoportal. Therefore, the data management application of the Sava GIS Geoportal, including tools for upload and data sharing, will be upgraded taking into account that functionalities will not be changed.

He proposed that the mandatory fields for control and validation of the data should be strengthened.

- PEG GIS concluded that upgrade of the Sava GIS Geoportal should be implemented for all datasets of the new Sava GIS FRM database design.

Next steps (EPTISA, all)

D. Singer also presented a preliminary result of the Sava FRMP project output - Proposal for upgrading of Sava GIS Geoportal with specific FRM information platform (mainly for expert purpose) where will be on very transparent and user friendly way visible and available (in digital form) all relevant information, documents (defined by PEG FP). He pointed out the proposal of creation of new modules: Module for spatial modeling and analysis, Module for communication with responsible persons, Flood Defense Organization Management Module, Module for monitoring the implementation of measures.

- PEG GIS took note on the presentation and concluded that such proposals should be agreed by PEG FP at first.

More information on all three items can be found in presentation (Ad.5_ Presentation on Design and implementation of the Sava FRMP database in Sava GIS), available at the PEG's ftp site.

AD 6. SAVA GIS FURTHER DEVELOPMENTS

IT system security upgrade

D. Divjak presented work performed on installation of new IT equipment for FFWS and upgrade of system security. The IT system of ISRBC is now divided into two domains – internal network with all desktop computers and one server for internal purposes and DMZ where majority of servers that run SavaGIS applications are placed. All internet traffic now goes through CISCO ASA firewall and single point entry - Haproxy where all network rules are configured.

Design and implementation of the Navigation database

Duško Isaković, from the ISRBC Secretariat, gave a presentation on web applications currently in use in the field of navigation: Navigation Safety Inspection, Development of the Marking Plan for the

Sava River and its navigable tributaries and Overview of electronic navigation charts (ENC) in inland navigation.

Related to the ultimate goal of merging the navigation data at SavaGIS Geoportal to establish the navigation module, planned by the Sava GIS Strategy, D. Divjak informed the PEG that the Navigation Safety Inspection application is successfully migrated to SavaGIS platform, while application for Development of the Marking Plan is migrated only partly. Some ideas how to integrate these application with SavaGIS are presented, but this concept is still under development.

M. Sarač stressed that the Secretariat has also started the preparatory activities on integration of existing data on accident prevention and control into the Sava GIS database environment, using the Danube GIS dataset on accident risk spots, with an ultimate goal of establishment of the APC module within the Sava GIS, planned by the Sava GIS Strategy. He pointed out that the following data on the APC are foreseen by the Sava GIS Strategy:

- Pollution accident event
- Equipment for remedy adverse effect of pollution.

He informed the PEG which data related to the APC already exists in the RBM module of Sava GIS, particularly showed the E-PRTR facility dataset and the list of IPPC, and also gave an overview of necessity of the APC related data exchange stipulated by the Protocol on prevention of the water pollution caused by navigation to the FASRB.

M. Sarač emphasized that the Sava GIS database model for APC is under development, using previously mentioned existing and planned datasets, and also stressed that the number of datasets depends on the data availability by countries.

- PEG GIS took note on the recent developments and planned activities and concluded that the related PEG NAV and PEG APC firstly should express their requirements and availability of data, and PEG GIS will follow up the implementation of both modules in the Sava GIS environment.

More information on both items can be found in presentation (Ad.6_Presentation on Sava GIS further developments), available at the PEG's ftp site.

AD 7. SAVA FFWS

Overview of the current status

M. Sarač reminded the PEG that an overview of the Sava FFWS development was presented at the 15th meeting. He stressed that a huge progress have been done in meantime and pointed out the following main accomplishments:

- Inception phase along with the Inception Report
- Project organizational structure has been established, for the general purpose of development, coordinating and monitoring of the project implementation, which bodies were already held a number of meetings (3 Steering Board; 6 International Working Group; 13 Country Working Groups)
- Primary hosting system server setup in ARSO and the admin training, January 26 2017
- Pre-release 0.1 delivery and training workshop in ARSO, February 02 2017
- Pre-release 0.2 delivery and training workshop in ARSO, June 13-14 2017
- Pre-release 0.3 delivery and training workshop in ARSO, December 12-13 2017
- Backup hosting system server setup in RHMZ and the admin training, January 15-16 2018
- Backup hosting system server setup in AVP Sava and the admin training, January 18-19 2018
- Backup hosting system server setup in DHMZ and the admin training, January 29-30 2018
- Archive and web system server set up in ISRBC and the admin training, February 01-02 2018
- A draft proposal of the Post Project Organization, February 13 2018
- Release 1.0 delivery and training workshop in RHMZ Serbia, February 26-28 2018.

He mentioned the forthcoming activities and informed the PEG that the fully operational system shall be handed over to the beneficiaries for their use in October 2018.

M. Sarač also informed the PEG on the proposal of Sava FFWS Post Project Organization (draft PPO document) and an idea for the three levels of organization on the international level for: duty forecasting, support/maintenance and future developments. He pointed out the consultant's proposal that activities related to the Sava FFWS support and maintenance on the international level should be coordinated by PEG GIS, and that the consultant recognized that PEG GIS has a strong position in IT related issues but also that such proposal needs also an adequate decision of ISRBC (PEG GIS).

Archive/Web Server

M. Sarač informed the PEG that one of the server components (Archive and web server) of Sava FFWS is set up at the IT infrastructure of ISRBC along with other four located at ARSO Ljubljana (Primary system server), AVP Sava Sarajevo, DHMZ Zagreb and RHMZ Belgrade (Backup system servers).

He presented a plan, already approved by ISRBC, that PEG GIS provide assistance to the Secretariat in expert issues related to regular functioning of the Sava FFWS archive and web server as well as in preparing of proposals for its development of advanced functionalities.

After a very long and detailed discussion on above mentioned proposals, the PEG concluded the following:

- The coordination of support and maintenance of Sava FFWS on the international level could not be performed by PEG GIS, given that particular members are not involved in the support and maintenance of forecasting systems at the national level. Therefore, PEG GIS requests the project implementation bodies to reconsider the proposal and find another solution.
- PEG GIS support the plan to provide assistance to the Secretariat in expert issues related to regular functioning of the Sava FFWS archive and web server as well as in preparing of proposals for its development of advanced functionalities.

More information on both items can be found in presentation (Ad.7_Presentation on Sava FFWS), available at the PEG's ftp site.

AD 8. STRATEGY ON IMPLEMENTATION OF THE FASRB WITH ACTION PLAN FOR THE PERIOD 2018-2023

Introduction

M. Sarač informed the PEG that, in accordance with the ISRBC's conclusion, the Secretariat started with preparatory activities on the development of the Strategy on implementation of the FASRB with Action plan for the period 2018-2023. He informed the PEG that the issues on data and information exchange as well as Sava GIS related activities will be included in the Priority area 4 - Integrated systems & information exchange.

He emphasized that the Strategy is a great opportunity to involve all plans for forthcoming activities for improvement of Sava GIS and the exchange data and information in general and asked that the PEG members be actively involved with concrete proposals.

Sava GIS and data exchange issues

In order to provide concrete proposals for the regular functioning of SavaGIS and its improvements over the next five years, M. Sarač gave a brief overview of the data and information exchange activities in previous two Strategies on implementation of the FASRB as well as in the Sava GIS Strategy goals and emphasized that all foreseen activities and operational tasks related to the GIS and IT were already implemented as follows:

The FASRB Strategy, 2008:

- Establishment of the web-site of the ISRBC
- (G)IS needs and capability assessment of the Sava countries
- Preparation of the GIS implementation strategy
- Development of the Sava GIS in accordance with the GIS implementation strategy.

The FASRB Strategy, 2011-2015:

- Refinement and harmonization of the core datasets of the Sava GIS
- Sava Geoportal core functionalities setup
- Development and implementation of the advanced tools, mapping and reporting services of the Sava GIS
- Implementation of the dynamic tools and services of the Sava GIS
- Establishment of a database of projects and key stakeholders in the Sava River Basin.

The Sava GIS Strategy, 2007-2012:

- Preparation and implementation of a common recommendations related to the national GIS and spatial data infrastructure's issues
- Collect and manage water related data from multiple locations
- Enable ISRBC users to discover and access water related information via the Sava River Basin Geoportal
- Develop integrated information products for the ISRBC decision makers and user.

He pointed out that the most of main and advanced functionalities of Sava GIS are already finalized, taking into account that full implementation will be accomplished after development of the remaining modules (navigation, sediment, APC) as well as development of the most advanced service component such as dynamic reporting and mapping and the decision support system (DSS).

PEG GIS discussed about the possible proposals for the further developments of Sava GIS and agreed the following:

- Development of DSS should be the first priority, with all advanced functionalities, its integration under the common Sava GIS platform with creating a link on the ISRBC website where decision makers can search for, locate, and link to data and information (reports, diagrams, charts etc.)
- PEG members will also send the additional proposals by March 20.

More information on can be found in presentation (Ad.8_Presentation on Strategy on implementation of the FASRB 2018-2023), available at the PEG's ftp site.

AD 9. WORK PLAN AND WAY FORWARD

Work Plan for FY 2018

The PEG GIS took note on the Work plan for FY 2018 (Ad.9 _Work Plan for FY 2018).

AD 10. EXTERNAL PROJECTS AND ACTIVITIES

eVode Slovenia

Tomaž Grilj, the PEG member from Slovenia, presented the new national website of the Slovenian Water Agency: <http://www.evode.gov.si> which consists all relevant data and information related to the water management including the water cadastral and the Atlas portal. He gave the short instructions how specific data can be reach and downloaded.

T. Grilj also showed in which way the banner and link to the Sava GIS Geoportal at this website is implemented: <http://www.evode.gov.si/drugi-gis-pregledovalniki/>.

Current and ongoing activities in ICPDR - Danube GIS

Zoran Major, from the ISRBC Secretariat, presented the recent developments of Danube GIS, Danube HIS developments and metadata profile updates and current activities.

Z. Major pointed out that the account synchronisation between Danube GIS and Danubis has been improved as well as access level for project users such is the JOINTISZA project and some other functionalities related to the database content. He also informed the PEG on the next development steps of Danube GIS.

Related to Danube HIS, he emphasized that preparatory steps are ongoing especially related to concept and scope of the Danube HIS as well as development of the relevant policy document for data exchange.

He stressed that the experience of ISBRC with Sava HIS is very important and therefore ICPDR count on support from ISBRC in the entire process of Danube HIS establishment. Z. Major informed the PEG that ICPDR is expecting a support from the DAREFFORT project (still in the approval procedure) for development of the on-line application for facilitating the exchange of data and future DanubeHIS data use and maintenance.

More information on can be found in presentation (Ad.10_Presentation on Current and ongoing activities in ICPDR - Danube GIS), available at the PEG's ftp site.

Knowledge ad good practices transfer from Sava River Basin to Chu-Talas River Basin for building capacities of Chu-Talas Water Commission (CTWC) and key stakeholders - Knowledge transfer on Sava GIS/HIS

Dragana Ninković, the PEG member from Serbia, engaged by REC for the knowledge transfer on Sava GIS/HIS within the project, was not able to participate at the meeting. Therefore, the project activities will be presented on the next meeting.

AD 11. OTHER ISSUES

The next 18th meeting of PEG GIS shall be held in June 2018 in Sarajevo. Details and the exact date will be determined later.

ANNEX I: LIST OF PARTICIPANTS

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ANNEX II: LIST OF DOCUMENTS

Agenda item	Title	Language	Type
1	Ad.1_PEG GIS_17 th meeting_AdoptedAgenda	Eng	.docx
2	Ad.2_Presentation on ISRBC activities_PEG GIS 17	Eng	.ppt
3	Ad.3_Presentation on Sava GIS	Eng	.ppt
4	Ad.4_Data and metadata collection _Summary Sheet	Eng	.pdf
	Ad.4_Presentation on Data and metadata collection	Eng	.ppt
5	Ad.5_Presentation on Design and implementation of the Sava FRMP database in Sava GIS	Eng	.ppt
	Ad.5_Design and implementation of the Sava FRMP database in Sava GIS	Eng	.rar
	<ul style="list-style-type: none"> ▪ <i>Ad.5a_SavaGIS_FRM_v4_4_LayersTables.jpg</i> ▪ <i>Ad.5b_SavaGIS_FRM_v4_4_Domains.jpgSavaGIS_FRM_v3_0_domains.jpg</i> ▪ <i>Ad.5c_Proposal of implementation in Sava GIS_draft.docx</i> 		
6	Ad.6_ Sava GIS further developments_Summary Sheet	Eng	.pdf
	Ad.6_Presentation on Sava GIS further developments	Eng	.ppt
7	Ad.7_ Sava FFWS_Summary Sheet	Eng	.pdf
	Ad.7_Presentation on Sava FFWS	Eng	.ppt
8	Ad.8_Presentation on Strategy on implementation of the FASRB 2018-2023	Eng	.ppt
9	Ad.9_Work Plan for FY 2018	Eng	.pdf
10	Ad.10_Presentation on Current and ongoing activities in ICPDR - Danube GIS	Eng	.ppt