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14th PEG GIS Meeting Report

Belgrade, 06 October 2016

Venue: Floating boat of PWMC "Srbijavode", Belgrade, Republic of Serbia

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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 the IGEA Company, the consortium members of the finalized Sava GIS project.

The list of participants is annexed to this report.

II. CHAIRMANSHIP

Mirza Sarač (the ISRBC Secretariat), Deputy Chairman of the PEG GIS, chaired the meeting, on behalf of the Chairman, Dragan Zeljko who could not participate in 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

- Reestablishment of the ISRBC expert groups & PEG GIS ToR (Secretariat)
- Presentation on the ISRBC activities (Secretariat)
- Short statements/presentations on the relevant activities in the Parties (PEG GIS members)

3. Sava GIS

- SavaGIS current status and demonstration of the updates (IN2&IGEA)
- Sava GIS draft manuals - presentation and discussion (IN2&IGEA, all)
- Further developments - discussion (all)

4. GIS data collection

- 2nd Sava RB Analysis - review of GIS data needs & discussion (Secretariat, all)
- 1st Sava FRM Plan - review of flood related GIS data needs & discussion (Secretariat, all)
- Metadata collection - data needs & discussion (Secretariat, all)

5. Other relevant projects and activities

- Sava LiDAR (Secretariat)
- Sava HIS (Secretariat)
- Sava FFWS (Secretariat)

6. 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 participants. Aleksandar Milićević, the PEG GIS member from Serbia, as the host of the meeting, informed the participants on some logistical issues.

Adoption of the Agenda

PEG GIS adopted the agenda of the 14th PEG GIS meeting (Doc. Ref. No.: 3-16-7/2-2).

AD 2. OVERVIEW OF THE ACTIVITIES BETWEEN THE TWO MEETINGS

Reestablishment of the ISRBC expert groups & PEG GIS ToR

M. Sarač informed the PEG GIS that the ISRBC expert groups were re-established by the ISRBC Decision 2/16 which was adopted in written procedure on February 16, 2016 (Meeting document: Ad.2_PEG_GIS_ToR and Ad.2_WD 2-16_Re-establishment of EGs, available at the PEG ftp site).

- PEG GIS took note on the information.

Presentation on the ISRBC activities

M. Sarač on behalf of the Secretary, Dejan Komatina who could not participate in the meeting, informed the PEG GIS on the most important activities and events since the last, 13th PEG GIS meeting held in September 2015, as well as on the upcoming meetings and events.

As the most important facts for the work of PEG GIS he emphasized the following:

- 6th Meeting of the Parties (Belgrade, 1 June 2016)
- Four sessions of ISRBC (39th in Zagreb, 19-20 Oct 2015; 40th in Zagreb, 14 Dec 2015; 41st in Belgrade 17-18 Feb 2016 and 42nd in Zagreb, 5 Jul 2016)
- Workshops, conferences and trainings organized by ISRBC
- Two meetings of Sava Water Council
- Meetings on projects and expert groups meetings.

He also informed the PEG on the current status of the projects regarding RBM, flood management, information exchange and navigation and on the status of protocols. He also presented the events of Sava day 2016 celebration (3rd International Cycling Tour and 5th meeting of the Sava Youth Parliament).

He announced that the 43rd session of the ISRBC will be held in Zagreb on 25-26 October 2016.

More information on other activities and events can be found in presentation (*Ad.2_Presentation on ISRBC activities_PEG GIS 14*, available at the PEG ftp site).

Short statements/presentations on the relevant activities in the Parties

Slovenia

Primož Kogovšek informed PEG about the activities in the implementation of the Water Framework Directive (WFD) and EU Floods Directive (FD) reporting process in Slovenia and about the national GIS planning in Slovenia. He stressed the following ongoing activities:

- The process of the 2nd national RBM Plan and the 1st national FRM Plan reporting to the Water Information System for Europe (WISE) and to the partnership network of the European Environment Agency (EIONET) is ongoing
- Centralization of the information systems in Slovenia is ongoing and one of the first systems will be GIS through the National Spatial Data Infrastructure (NSDI)

- Establishment of the hydromorphological monitoring is planned in next year
- FRISCO project, for the flood risk reduction in the SI-HR transboundary Dragonja, Kolpa/Kupa, Sotla/Sutla, Drava, Mura and Bregana river basins, is launched. New Lidar surveying in addition to the existing data is planned
- Existing ARSO Geoportal and the Atlas of Environment (Atlas Okolja), which can be reached at:
 - o <http://gis.arso.gov.si/geoportal/catalog/main/home.page>
 - o http://gis.arso.gov.si/atlasokolja/profile.aspx?id=Atlas_Okolja_AXL@Arso

while the public web services can be reached at:

- o http://gis.arso.gov.si/wfs_web/faces/WFSLayersList.jsp

P. Kogovšek informed the PEG that the Slovenian Water Agency (official title: Direkcija Republike Slovenije za vode) started operating on January 1, 2016 and related information is available at its new web site: <http://www.dv.gov.si/en/>.

Croatia

Tijana Rosandić informed the PEG about the activities in the implementation of the WFD and FD reporting in Croatia, as well as about the national GIS planning, with the following main points:

- The process of the 2nd national RBM Plan and the 1st national FRM Plan reporting to WISE and EIONET is successfully finalized (29 Sep 2016), as one of the first EU countries fulfilled the obligation.

Related information is available at:

- o WFD - <http://cdr.eionet.europa.eu/hr/eu/wfd2016/spatial/envv5sqpq/overview>
- o FD - http://cdr.eionet.europa.eu/hr/eu/frmp/hrc/xml/envv_esh

- Metadata for the WFD and FD reporting will be delivered to the National Spatial Data Infrastructure (NIPP) of Croatia and information will be available at the NIPP Geoportal
- ToR for the establishment of the Public Geoportal of the Croatian waters is in preparation. Module for the flood risk management will be developed in the first step and thereafter for the river basin management.

T. Rosandić also informed the PEG that the implementing Consortium of the IPA Floods Programme (one of the members is the Croatian National Protection and Rescue Directorate - NPRD), which scope of the work is to increase Flood Risk Management capacities in the beneficiaries at national, regional and EU level (Albania, Bosnia and Herzegovina, Croatia, Former Yugoslav Republic of Macedonia, Montenegro, Serbia, Kosovo under UNSCR 1244/99, and Turkey), offered an already developed solution for data collection on the flood events.

Bosnia and Herzegovina

Hajrudin Mičivoda informed the PEG GIS that the 1st national RBM Plan for the Sava River basin is finalized. The public consultation process for one administrative unit (FBiH) is successfully finished, while for other two (RS BiH and District Brčko) is still ongoing with deadline by the end of 2016. Given that the EIA for FBiH is in progress and given that the legislation of RS BiH and District Brčko did not foresee the EIA development, is expected that the 1st national RBM Plan for all administrative units will be submitted to the Government for adoption by beginning of 2017.

He stressed the following ongoing activities which are related to the finalization of the 1st national RBM Plan and the national GIS planning:

- The process of the 1st national RBM Plan data loading into the Water Information System of Fed BA (WIS BA Fed) is finalized and all data are imported
- A project for the redesign of WIS BA Fed, financed by UNDP, with aim to integrate all existing web applications
- IMPULS project for development of the Public Geoportal, is being implemented by the Federal Administration for Geodetic and Real Property Affairs of FBiH (FGU), which will

- include the integrated water management data and will develop the web services for data exchange
- WBIF project for the FRM Plan development, including preparation of the flood hazard and risk maps. Lidar surveying is planned.

Serbia

Dragana Ninković and Aleksandar Milićević jointly informed the PEG GIS about the activities in the implementation of the WFD in Serbia. They stressed that the preliminary national RBM Plan for all river basin above 500km² (using maps with scale 1:300.000) has been finalized. Currently is ongoing the preparatory phase for the development of the first national RBM plans at the river basin districts scale (rivers with catchment larger than 10 km²) and which will be developed by the public water management companies (PWMC “Srbijavode”, PWMC “Vode Vojvodine”, PWMC “Beogradvode”).

They stressed the following ongoing activities which are related to the national GIS activities:

- Study on Flood Management Improvement in the Kolubara River Basin (official title: *Студија унапређења заштите од водау сливу Реке Колубаре*), with establishment of the GIS database which includes the existing data relevant for the Study (administrative units, hydrography, infrastructure and flood protection structures, land, flooded areas 2014, DTM, basic geology data) and Study outcomes such as planned flood protection structures and reservoirs. Related information is available at web site:

- o <http://studijakolubara.srbijavode.rs/home/>

while the Public Geoportal for Kolubara can be reached at:

- o <http://srbijavode.maps.arcgis.com/apps/webappviewer/index.html?id=d9ef1b3f8c824073afa945387bed7af5>

- Real Estate Management Project with the objective to improve the efficiency, transparency, accessibility and reliability of the Borrower’s real property management systems. The Project consists of the four parts and the GIS related is the *Part II: E-governance for Enabling Access to Real Estate Information*.

AD 3. SAVA GIS

SavaGIS current status and demonstration of the updates

M. Sarač gave an introduction and noted that the Sava GIS project is at its closing phase and thanked to everyone who contributed to this demanding project. He especially acknowledged the contribution of the EC – DG ENV, ICPDR, national institutions of the Parties, the members of the expert groups, especially the PEG GIS, consultants and all other contributors.

He emphasized that the remaining issues, before final taking over the system to the ISRBC planned for October 24, 2016, are as follows:

- Confirmation of translations on the Sava GIS Geoportal, Metadata Catalogue and Real-time data application (by the PEG GIS)
- Adoption of the final draft Manuals (by the PEG GIS)
- Delivery of the final user and system documentation (by the IN2&IGEA Consortium).

M. Sarač also noted that the urgent issue needed to be solved for a successful operational functioning of the SavaGIS will be engagement of expert in the Secretariat and informed the PEG that this issue was discussed at the last ISRBC session.

Stjepan Grđan, on behalf of the IN2&IGEA Consortium, provided an update on the Sava GIS main outcomes and functionalities and thereafter presented the Sava GIS Geoportal demo, showing its main and additional functionalities.

He especially pointed out the SavaGIS Geoportal interface improvements, improvements in validation and data import process, ability of OWS tool and attribute table overview of related tables, access to data from SavaGIS system via public WMS/WFS services:

- <http://savagis.org/wms>,
- <http://savagis.org/wfs>,

He emphasized that only registered users are able to use all capabilities of WMS/WFS services while public users have limited rights.

More details can be found in presentation (*Ad.3_SavaGIS_IGEA_IN2_presentation_PEG GIS 14*).

PEG GIS took note on the SavaGIS improvements and after discussion the following conclusion has been agreed:

- PEG GIS will review, check and confirm the translations and send the comments by October 13, 2016.

Sava GIS draft manuals

After the introductory presentation S. Grđan presented the improvements of the final draft Sava GIS Manuals, which are made jointly with the Secretariat.

The draft Sava GIS Manuals are oriented to the users and have been prepared separately for each particular web application, as follows:

- SavaGIS Geoportal:
 - Public User Manual
 - Registered User Manual
 - User Admin Module Manual
- Metadata Catalogue:
 - Public User Manual
 - Registered User Manual
- SavaHIS Real-Time Data Users Manual.

PEG GIS took note of the new version of the Manuals (Meeting document: *Ad.3_Sava GIS draft manuals*, available at the PEG ftp site), gave a few comments on the text with the following conclusion:

- PEG GIS will send final comments on the text, if any, by October 13, 2016.

Further developments

S. Grđan presented the proposal for further development of the Sava GIS functionalities (Meeting document: *Ad.3_Sava GIS_Further developments-Description of planned activities*, available at the PEG ftp site). M. Sarač noted that the Secretariat, in accordance with the available funds, proposes the prioritization of activities.

PEG GIS took note and after discussion confirmed the proposed activities as a useful improvement, according to priorities, with the following additions:

- Item 5 (Popup display of data at the SavaHIS Real-time Data map) should allow dynamic, not static tool
- Item 8 (Module for update of accounts by registered users) should allow tool for the password reset
- Secretariat will complete the negotiations with the consultant and start implementation, as soon as possible.

AD 4. GIS DATA COLLECTION

2nd Sava RB Analysis

M. Sarač gave a short presentation on prepared text for the 2nd SRBA report (Meeting document: *Ad.4_GIS data collection-SRBA_Report_draft 5.2*, available at the PEG ftp site) and showed the used data within the framework of SavaGIS database. As the PEG RBM has agreed, the data from Danube GIS (for HR, RS, SI and ME) and from the 1st Sava RBMP (for BA), were used.

He stressed that the data migration process, using the data which are uploaded by the Sava countries to the Danube GIS, was quite complicated and suggested that future data collection should be using the SavaGIS database directly. Sava GIS is compliant with the EU reporting guidance (the EU countries are obliged to comply, and for non EU countries is recommended), so M. Sarač emphasized that the process of data migration in Sava GIS be much easier to use the original data, which should be anyway compliant with the EU reporting guidance.

After discussion the following was agreed:

- Secretariat will deliver the SavaGIS RBMP database (*.fgdb), loaded with the data used for the 2nd SRBA, after the 32nd PEG RBM meeting (Oct 25-26, 2016), to the PEG GIS
- PEG GIS will review and check the filled SavaGIS RBMP database (*.fgdb) and will import into the central SavaGIS RBMP database via exchangeable *.zip file format (HR, RS) or via WFS service (BA, SI), using the Geoportal
- Deadline for the data import will be set by the PEG RBM, but not after November 30, 2016.

1st Sava FRM Plan

M. Sarač informed the PEG GIS on the ongoing activities related to the development of the 1st Sava FRM Plan (Meeting document: *Ad.4_GIS data collection-1st Sava FRM Plan_ToR*, available at the PEG ftp site) and stressed necessity of the collection of the FRM data, which should be used by the prospective consultants.

He emphasized that the Secretariat has assisted to the GIS experts in preparing and uploading FRM data related to the Protocol on FP to FASRB and the FD, which are reported to the EC by the EU countries (HR, SI), or prepared in accordance with the national legislation (BA, RS). He stressed that the Secretariat has also assisted to the GIS experts in preparing and uploading data for the flood protection structures along the Sava River and the tributaries with catchment area larger than 1,000 km² for the following structures: dykes, retentions, pumping stations, floodgates, dams, overflows.

After discussion the following was agreed:

- PEG GIS will only check the imported data so far in the central SavaGIS FRM database, as follows:
 - PFRA & APSFR (collected for all countries) - Flood Events, Flood Locations, Flood Characteristics, Flood Summary Information, Flood Mechanism Types, Flood Sources, Flood Consequences for Human Health, Economic Activity, Environment, Cultural Heritage)
 - Flood Hazard Maps (collected for HR, SI) - for all identified APSFR, for the following scenarios (i) floods with a medium probability, and (ii) floods with a low probability, or extreme event scenarios)
 - Flood protection structures (collected for BA, RS) - along the Sava River and the tributaries with catchment area larger than 1,000 km² for the following structures: dykes, retentions, pumping stations, floodgates, dams, overflows)
- PEG GIS will upload the remaining data in the central SavaGIS FRM database for the following datasets, by countries:
 - PFRA & APSFR
 - BA - upload remaining attributes
 - HR - check and confirm

- Flood hazard maps
 - BA - upload spatial and attribute data, if any
 - HR - check and confirm the data
 - RS - upload spatial and attribute data, if any
 - Flood protection structures
 - BA - upload additional data, if any
 - HR - upload spatial and attribute data
 - RS - upload additional data, if any
 - SI - upload spatial and attribute data
- PEG GIS will inform the Secretariat on implemented activities, as soon as possible.

Metadata collection

M. Sarač informed the PEG GIS on the conclusions from the Ministerial meetings (held in Belgrade on June 16, 2014 and in Brčko, on July 6, 2015), which the ISRBC has recalled on its 37th and 38th sessions, about the necessity to ensure the regular exchange of information on related projects and activities, particularly with regard to activities within the project “Improvement of joint actions in flood management in the Sava river basin” (WBIF project). He stressed that the Secretariat jointly with PEG FP has prepared a template for collecting required information which will be collected/updated three times a year, in principle before the PEG FP meetings. First round of the information collection was done prior to the 29th PEG FP meeting (Meeting document: *Ad.4_GIS data collection-Metadata collection_List of flood related projects*, available at the PEG ftp site).

Given the plan to the information exchanged via Sava GIS Metadata Catalogue, after discussion the following was agreed:

- PEG GIS will create the new metadata datasets into the Metadata Catalogue for the purpose of exchange of information on flood related projects/activities and will inform the Secretariat on implemented activities, as soon as possible.

AD 5. OTHER RELEVANT PROJECTS AND ACTIVITIES

Sava LiDAR

M. Sarač informed the PEG on the latest developments and progress achieved in the Sava Lidar project and emphasized that the U.S. Authorities launched the procurement procedure in February 2016 and the Consultant (Fly Com d.o.o. Slovenia) has contracted at the end of June, 2016 with the deadline end of April, 2017.

The Consultant, Fly Com d.o.o. Slovenia started their activities on obtaining permits for Lidar surveying on beginning of July, and the first data collection is expected very soon.

In addition to the completion of the procurement procedure, as the next steps within this phase of the U.S. Government support M. Sarač pointed out that ISRBC has prepared the proposal for purchase of IT equipment and for workshop(s) for ISRBC and the national institutions.

- PEG FP took note on the information

Details on the project activity are available in Ad.5_Sava LiDAR-Summary Sheet.

Sava HIS

M. Sarač briefly informed the PEG GIS that the Sava HIS project is successfully implemented, in accordance with the Sava Data Policy, as a tool of the Sava GIS for collecting storing, analyzing and reporting a sufficiently high quality data (precipitation measurements, river water level recordings, discharge measurements).

Sava HIS can be reached at: www.savahis.org.

After implementation of the project, it will be necessary to maintain the system application that will be resolved through the maintenance of the Sava GIS.

- PEG FP took note on the information

Details on the project activity are available in Ad.5_Sava HIS-Summary Sheet.

Sava FFWS

M. Sarač briefly informed the PEG that the Component 2 - Flood Forecasting and Warning System for the Sava River Basin (Sava FFWS) of the project: Improvement of joint flood management actions in the Sava River basin (“WBIF project”) has started on June 21, 2016 when the kick-off meeting was held and the project was formally launched.

A Consortium, led by Deltares from the Netherlands, is contracted to support the implementation of this project component. The task will span over about 27 months and it will require active participation and inputs from 19 beneficiary institutions. He stressed that the inception phase is still ongoing, and will be ended after the inception workshop planned for 13-14 October, 2016.

- PEG FP took note on the information

Details on the project activity are available in Ad.5_Sava FFWS-Summary Sheet.

AD 6. OTHER ISSUES

M. Sarač informed the PEG GIS that the public consultation process on the Interim Overview of the Significant Water Management Issues (SWMIs) in the Sava River Basin, available at: http://www.savacommission.org/announce_detail/63, is ongoing and asked the PEG to review the document and provide the comments if any.

The PEG GIS jointly raised the necessity to promote Sava GIS (Geoportal, Metadata Catalogue, Real-time data application) at the national websites and that should be done individually by the countries with assistance of the PEG GIS members (the Secretariat if needed), as soon as possible.

As proposed by the PEG GIS, the next 15th meeting of PEG GIS shall be held in mid-March 2017 in Ljubljana, or in Sarajevo as an alternative.

Details and the exact term will be determined later.

ANNEX I: LIST OF PARTICIPANTS

Full Name	Country/Company/Organization	Tel/Fax/E-Mail	Attendance
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ANNEX II: LIST OF DOCUMENTS

Agenda item	Title	Language	Type
1	Ad.1_PEG GIS_14th meeting_Agenda	Eng	.doc
2	Ad.2_Presentation on ISRBC activities_PEG GIS 14	Eng	.ppt
2	Ad.2_PEG_GIS_ToR	Eng	.pdf
2	Ad.2_WD 2-16_Re-establishment of EGs	Eng	.pdf
3	Ad.3_SavaGIS_IGEA_IN2_presentation_PEG GIS 14	Eng	.ppt
3	Ad.3_Sava GIS draft manuals <ul style="list-style-type: none"> - Sava GIS Geoportal_Public User Manual v2 - Sava GIS Geoportal_Registered User Manual v2 - Sava GIS Metadata Catalogue_Public User Manual v2 - Sava GIS Metadata Catalogue Registered User Manual v2 - Sava GIS User Admin Module_User Manual v2 - Sava HIS Real-Time Data_Users Manual v2 	Eng	.pdf
3	Ad.3_Sava GIS_Further developments-Description of planned activities	Cro	.doc
4	Ad.4_GIS data collection-SRBA_Report_draft 5.2	Eng	.doc
4	Ad.4_GIS data collection-SRBA_Maps <ul style="list-style-type: none"> - Map-01_2ndSRBA_Overview_v3 - Map-02_2ndSRBA_land_cover_v3 - Map-03_2ndSRBA_PAs_v3 	Eng	.jpg
4	Ad.4_GIS data collection-1st Sava FRM Plan_ToR	Eng	.pdf
4	Ad.4_GIS data collection-Metadata collection_List of flood related projects	Eng	.doc
5	Ad.5_Sava LiDAR-Summary Sheet	Eng	.pdf
5	Ad.5_Sava HIS-Summary Sheet	Eng	.pdf
5	Ad.5_Sava FFWS-Summary Sheet	Eng	.pdf