

**SUPPORT TO UKRAINE
IN APPROXIMATION OF THE EU
ENVIRONMENTAL ACQUIS**

EuropeAid/135825/DH/SER/UA

**Workshop on Water Framework Directive and
Floods Directive**

Training block A

Sloviansk 24. -25. May 2016

Report

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LIST OF ABBREVIATIONS

Acronyms	Meaning
AA	Association Agreement
APENA	Project “Support to Ukraine in approximation of the EU environmental <i>acquis</i> ”
DSIP	Directive Specific Implementation Plan
DWD	Drinking Water Directive
EC	European Commission
EMBLAS	Environmental Monitoring in the Black Sea
EPIRB	Environmental Protection of International River Basin Project
EU	European Union
EUD	European Union Delegation
FD	Floods Directive
GIS	Geographic Information System
HCSSE	Hydro-meteorological Centre of the State Service of Emergencies
ICPDR	International Commission for the Protection of the Danube
IWRM	Integrated Water Resources Management
KE	Key Expert
MAPF	Ministry of Agrarian Policy and Food
MEDT	Ministry of Economic Development and Trade
MENR	Ministry of Ecology and Natural Resources
MFA	Ministry of Foreign Affairs
MHC	Ministry of Health Care
MOJ	Ministry of Justice
MoM	Minutes of Meetings
MRDCHCA	Ministry of Regional Development, Construction, Housing and Communal Affair
MSFD	Marine Strategy Framework Directive
ND	Nitrates Directive
NGO	Non-Governmental Organization
NKE	Non Key Expert
NVZ	Nitrate Vulnerable Zone
PFRA	Preliminary Flood Risk Assessment
PPRD-EAST	Prevention, Preparedness and Response to Man Made and Natural Disasters in the East region
RBD	River Basin District
RBMP	River Basin Management Plans
SAWR	State Agency of Water Resources
SBS	Sector Budget Support
TL	Team Leader
ToR	Terms of Reference
UWWTD	Urban Waste Water Treatment Directive
WFD	Water Framework Directive
WG	Working Group



1. INFORMATION ON THE EVENT

The APENA project continued implementation of the Training Programme in water sector with the 2nd Workshop/Training on Water Framework Directive and Floods Directive in Eastern Region of Ukraine (Doneck oblast), Sloviansk, 24–25 May, 2016.

Training was aiming at understanding the process of the delineation and typology of the surface water bodies in line with the WFD and Preliminary flood risk assessment (PFRA) according to the Floods directive. However, agenda of the Training was same as the Workshop/Training on the Water Framework Directive and the Floods Directive in Lviv, 12–13 April, 2016 practical working group assignment were focused on Eastern Region of Ukraine (Doneck oblast) conditions. Moreover, during the Training preparation, the project team experts have taken into consideration feedback from participants obtained during the first Training held in Lviv.

2. MAIN OBJECTIVES OF THE EVENT AND RELATION TO THE PROJECT ACTIVITIES

The main objectives of this event were to understand the process of the delineation and typology of the surface water bodies in line with the WFD and Preliminary flood risk assessment (PFRA) according to the Floods directive, being the participants autonomous in identification, delineation and typology of the surface water bodies and preparation of PFRA.

In order to fulfil these objectives training provided the participants with following information (see Agenda, **Annex A**):

- Brief lectures of EU theory and good practices including requirements of the AA, listed in Annex XXX;
- Introduction Legal substantiation of draft laws developed under the project in this field;
- Hands-on case studies and exercise addressing specific situation in Ukraine, related to above mentioned topics, particularly requirements of the WFD and FD.

2.1. Relation to the Project activities – an overall overview

Introductory part according to Workshop agenda:

Agenda item	Activity No	Project activities
Presentation of the provisions of the Directives from EU-UA Association Agreement	Activity 2.2.3	Legal substantiation and support in developing of 10 new legal acts
Progress in transposition of EU water sector requirements	Activity 2.2.3	Directive Specific Implementation Plans progress APENA project Brief Legal Plans for WFD and the FD
Transposition of the WFD and the FD	Activity 2.2.3	Amendments to Water Code - State of art



2.2. Relation to the Project activities – the WFD

The presentations of the trainers and hands-on case studies as well as and working groups exercise conducted during the event were related to following the Project activities according to Workshop agenda:

Agenda item	Activity No	Project activities
Training session #1: Delineation of river basin and sub – river basins	2.2.3 and 2.2.10	Develop the draft Order of the MENR “On identification of sub-basins and water management units within river basin districts”
Training session #2: Typology, Reference Conditions and Classification Systems.	2.2.3 and 2.2.10	Identify SWB categories as lakes, transitional waters, coastal waters and methodology of the identification of surface and groundwater bodies
Training session #3: Identification and designation of heavily modified and artificial water bodies	2.2.3 and 2.2.10	Develop the draft Order of the MENR “On the methodology of the identification of surface and groundwater bodies”.

2.3. Relation to the Project activities – the FD

The presentations of the trainers and hands-on case studies as well as and working groups exercise conducted during the event were related to following the Project activities according to Workshop agenda:

Agenda item	Activity No	Project activities
Training session #4: Preliminary flood risk assessment	2.2.3 and 2.2.12	Develop a preliminary flood risk assessment methodology adapted to the Ukrainian context
Preliminary flood risk assessment – examples from the EU member states	2.2.3 and 2.2.12	Develop a preliminary flood risk assessment methodology.

3. PARTICIPANTS

Participants of the workshop (41 participants) from:

- Eastern Region of Ukraine (Doneck oblast) - 5 oblast - Lugansk, Donetsk, Kharkiv, Poltava, Dnepropetrovsk regions / Dnieper, Severski Donets Rivers basins, Azov see rivers) included representatives of State Agency of Water Resources (SAWR);
- River basin authorities (RBAs /БУВР);
- Ukrainian Hydrometeorological Service, Oblast Hydrometeorological Centres (OHS).



List of participants is available in **Annex B** of this Report.

4. MAIN INPUTS PROVIDED BY THE PROJECT

Main inputs to the event provided by the project comprised of the Project team experts presentations during the plenary sessions and the working group training sessions.

4.1 Subject of inputs and Speakers:

Presentation of the provisions of the Directives from EU-UA Association Agreement (AA), Bartkova Eleonora KE3:

Participants were informed about provisions of the EU water directives concerned the EU – UA, AA requirements, regarding the transposition and implementation and APENA project support in this field.

1. Water Framework Directive (2000/60/EC establishing a framework for Community action in the field of water policy (WFD) and amendments)
2. Floods Directive (2007/60/EC on the assessment and management of flood risks)
3. Marine Strategy Framework Directive (2008/56/EC Directive establishing a framework for Community action in the field of marine environmental policy)
4. UWWTD Directive (91/271/EEC on urban waste water treatment and regulatory amendments)
5. Drinking Water Directive (98/83/EC on quality of water intended for human consumption and regulatory amendment)
6. Nitrates Directive (91/676/EC concerning the protection of waters against pollution caused by nitrates from agricultural sources and regulatory amendment)

Progress in transposition of EU water sector requirements, Vykhryst Serhiy, Legal NKE

- Implementation Plan for the Directive 2000/60/EC of the European Parliament and of the Council establishing a framework for Community action in the field of water policy as amended by Decision No 2455/2001/EC and Directive 2009/31/EC.
- Implementation Plan for the Floods Directive (2007/60/EC on the assessment and management of flood risks):
 - Goal and objectives of the Implementation Plan;
 - Brief description of current state of play in implementing the EU *acquis* in Ukraine and expected results of implementation;
 - Measures of the Implementation Plan.

Amendments to Water Code - State of art, Khorev Mykhailo, SAWR

An explanation of approaches on preparation of Draft Law of Ukraine amending the Water Code of Ukraine (reg. #3603) to support the transposition of the WFD and FD.

Training session #1: Delineation of river basin and sub – river basins, Iarochevitch Alexei - Water policy NKE and Grebin' Vasyl, Kyiv national University

- Delineation of river basin and sub – river basins explanation, examples from the EU MSs;
- Current situation – UA approach in the delineation of river basin and sub – river basins;
- Identification of the transitional and coastal waters;



- Identification of ground water bodies within river basin and sub – river basins.

Working group assignments

- Delineation of sub – river basins of the Dnieper river basin;
- Delineation of sub – river basins of the Don river basin;

Training session #2: Typology, Reference Conditions and Classification Systems, Iarochevitch Alexei - Water policy NKE

- Introduction of the EU Guidance Document No. 2 - Identification of Water Bodies.
- Purpose of surface water bodies (SWBs) delineation and the methodology.
- Introduction of the EU Guidance Documents No. 10 - River and lakes – Typology, reference conditions and classification systems.
- Working groups session: - practical exercise on SWBs delineation.

Training session #3: Identification and designation of heavily modified and artificial water bodies, Konovalenko Oxana, Local NKE for the WFD

- Introduction of the EU Guidance Document No. 4 - Identification and Designation of Heavily Modified and Artificial Water Bodies.
- Purpose of identification of and designation of Heavily Modified and Artificial Water Bodies and the methodology.
- Working groups session: - practical exercise on Heavily Modified and Artificial Water Bodies delineation.

Objectives of the working group training session:

1. To demonstrate peculiarity of artificial and heavily modify water bodies.
2. To Describe overall HMWB & AWB designation process, giving a short description of an individual steps leading to identification of HMWB and AWB.
3. To explain details of steps leading to provisional identification of HMWB from water body identification to the question as to whether the changes in the water body characteristics are result of physical alterations by human activity.
4. To inform the participants of the training the other approaches of identification and designation of the heavily modify and artificial water bodies according to ICPDR's way and other national approaches
5. To show some examples of designation of heavily modify in the Tisza River basin.
6. To present existing data for HMWB & AWB designation process in a river basins districts.

Working group assignments

Several tasks were suggested to the participants of the training:

1. To assess existing data for HMWB & AWB designation process in the river basins districts. Evaluate the sufficiency of existing data for identification the HMWB and AWB?
 - 1.1. Hydrological information which characterized changes in hydrological regime
 - water level fluctuation,
 - minimal and maximal water flow changes?



1.2. Actual topographic and cartographic materials:

- maps,
- satellite.

1.3. Water management information.

information about: stored, such as drinking-water supply, power generation or irrigation; water regulation, flood protection, land drainage, channel regulation (for example- channel dredging, cut off channel); hydro-technical structure (bank protecting construction, dam (flood dam, quay), sluice and other

1.4 GIS data or integrated national GIS

2. To comment the technical feasibility of carrying out to make a preliminary identification of HMWB for water bodies in your RBD.

3. To try to designation HMWB, AWB, natural water body on the given examples/maps.

Results/Outputs.

Participants from 5 training regions (Dnepropetrovsk, Donetsk, Lugansk, Poltava, Kharkiv regions) represented the river basin districts: Dnipro, Don (Siverskii Donec), Priazoviye.

Oblast Hydrometeorological Centres conducts water regime monitoring at the regular network of hydrological observations (Hydrological regime data). However, there is in all of Oblast Hydrometeorological Centres lack of hydrological data for small rivers, currently under investigation of these rivers.

State agency of Water Resources of Ukraine sectors has water management information (channel regulation, present hydraulic engineering structures and its condition).

Siverskiy Donec BUVR has all significant information of water bodies of Siverskiy Donec and Priazoviye. BUVR has got hydrological, hydro-technical structure and river management information from Oblast Hydrometeorological Centres and condition of from hydro- technical structure and river management information State agency of Water Resources of Ukraine sectors. BUVR has own GIS of Siverskiy Donetsk. They have all input information for Identification of heavily modify and artificial water body for river basins district - Don (Siverski Donetsk) and Priazoviye.

Difficulties regarding communication between Hydrometeorological Centres and State agency of Water Resources of Ukraine sectors in Dnipro basin concerning the data sharing.

GIS as an integrated international Hydrometeorological Centres (State Service of Emergency Situation) and the State agency of Water Resource does not exist.

Training session #4: Preliminary flood risk assessment, Kanstantsin Tsitou, International Non-Key Floods Directive Expert

- An overview of the Floods Directive 2007/60/EC on the assessment and management of flood risks) requirements focusing on Preliminary flood risk assessment (PFRA).
- Working group assignments.

Objectives of the working group training session:

1. to acquaint the participants of the training with the approaches of the EU Flood Directive, its content and requirements;



2. to demonstrate to the participants of the training methodology and examples of Preliminary flood risk assessment in accordance with EU Flood Directive;
3. to assess sufficiency of data and possibility of performance of PFRA in the regions / river basins of the training (Lugansk, Donetsk, Kharkiv, Poltava, Dnepropetrovsk regions / Dnieper, Severski Donetsk Rivers basins, Azov sea rivers).

Working group assignments

3 tasks were suggested to the participants of the training:

1. Please comment how floods are "accounting" in your region / river basin
 - 1.1. Which information is collecting / processing in flood context (hydrological, statistical)?
 - 1.2. If the flood damage is estimating?
 - 1.3. Which format of "flood information" (data bases, paper reports, maps)?
 - 1.4. Is the "flood information" available for specialists, people?
2. Please comment the technical feasibility of carrying out PFRA in your region / river basin
 - 2.1 Could you provide such PFRA?
 - 2.2 Is it possible to use unique water management GIS, unique raster map?
 - 2.3 Evaluate the sufficiency of existing data for evaluation?
 - 2.4 What would you propose to "improve the situation" right now?
3. Please try to mark on the given map areas in your region / river basin with potentially significant flood risks.

Results/Outputs

1. In all 5 training regions (Lugansk, Donetsk, Kharkiv, Poltava, Dnepropetrovsk regions) account of floods is processed on similar scheme. Oblast Hydrometeorological Centres conduct water regime monitoring at the regular network of hydrological observations and if it is needed in flood areas.
 - 1.1. Water levels, water discharges.
 - 1.2. Regional departments of the State Emergency Service of Ukraine collect data and calculate actual flood damages.
 - 1.3. "Flood information" is in paper reports format and also in excel format.
 - 1.4. "Initial flood information" is information for official use only. People and stakeholders have access to official information reports and brochures.
2. Despite certain difficulties it can be stated that in all 5 training regions it is possible to conduct PFRA:
 - 2.1. Personnel of Oblast Hydrometeorological Centres, State Agency of Water Resources regional departments in the framework of its competence in collaboration with regional authorities of State Emergency Service of Ukraine could perform PFRA in the relevant regions / river basins.
 - 2.2. There are no unique GIS in water management in Ukraine, as well as no unique cartographic raster maps but for water management issues in some river basin GISs are already developed (Severski Donetsk river basin for example).
 - 2.3. There are long rows of hydrological data (water discharges, water levels) at rivers covered by hydrological monitoring. Data are available since the mid-20th century. But from other hand very little hydrological information at small rivers which are not covered by regular monitoring of water regime.



- 2.4. Further automatization of hydrological posts and installation of new automated hydrometeorological stations at flooding rivers, development of water management GIS and personnel trainings.

3. Participants of the training provided their vision of areas with significant flood risks in their regions (Figures 1 - 5 are attached in Annex D of the report):

Donetsk region

At the territory of Donetsk region following river sites could be considered with significant of flood risk (figure 1): Kazenny Torets River, Sukhi Torets River, Mius River.

Lugansk region

At the territory of Lugansk region following river sites could be considered with significant of flood risk (figure 2): Aidar River, Lugan River, Derkul River, Kovsug River, Evsug River, Krasnaya River.

Kharkiv region

At the territory of Kharkiv region following river sites could be considered with significant of flood risk (figure 3): Severski Donets River, Udi River, Kharkiv River, Mzha River, Vel. Burluk River, Bereka River, Balakliyka River, Oskil River, Sukhi Toretz River, Oril River.

Poltava region

At the territory of Poltava region following river sites could be considered with significant of flood risk (figure 4): Vorskla River, Kolomak River, Psel River, Khorol River, Sula River.

Dnepropetrovsk regions

At the territory of Dnepropetrovsk region following river sites could be considered with significant of flood risk (figure 5): Oril River, Samara River, Vovcha River, Mokra Sura River, Ternivka River.

Preliminary flood risk assessment – examples from EU member states, Bartkova Eleonora KE 3

- Slovak Republic approach
 - Transposition of the Floods Directive
 - Preliminary flood risk assessment - methodology
- Czech Republic approach
 - Preliminary flood risk assessment - methodology

4.2 Training materials:

Participants were provided with following the EU Guidance documents as working papers in Ukrainian language in advance via email:

- No. 2 - Identification of Water Bodies.
- No. 4 - Identification and Designation of Heavily Modified and Artificial Water Bodies.
- No. 10 - River and lakes – Typology, reference conditions and classification systems.

All presentations (**Annex C**) are published on the APENA website:

<http://www.env-approx.org/index.php/en/news/42-workshop-on-water-framework-directive-and-floods-directive.html>



5. ASSESSMENT OF EVALUATION OF QUESTIONNAIRES

In order to measure the impact of knowledge transfer achieved in training workshop, this event was concluded before closure by an anonymous questionnaire. Anonymity was ensured by the willingness of the participants to participate and provide answers. In comparison with evaluation questionnaire used in Lviv, for Sloviansk training questionnaire has been improved by adding scoring for each presentation (items 7.1 - 7.8 of evaluation questionnaire).

The evaluation questionnaires were disseminated to all participants. The project team after the event collected 33 evaluation questionnaires filled in by participants having received the scoring table and an overview of which questions or issue were well understood and answered and which were misunderstood and need re-addressing at future occasion.

Summary of questionnaires evaluation:

The scoring tables related to ten questions presents an average scoring from 4,92 to 4,06 (5 score is the best), see following Table and Figure 1.

#	Scoring of the following criteria/questions	Results - Average score
1	Timing for receiving invitation to the event and the supporting materials (materials, guidelines, etc.)	4,92
2	Usefulness of the supporting materials for the workshop	4,48
3	Overall quality of the training	4,79
4	Were the training methods appropriate?	4,91
5	What is the applicability of the training content to your working context?	4,06
6	Have you acquired information and knowledge that is new to you?	4,31
7	How would you evaluate presentation of the agenda items?	4,76
8	How would you evaluate the discussion during the training (relevance to the topic, sufficient time, etc.)?	4,83
9	Had you opportunities to discuss issues of your interest?	4,85
10	Would you recommend this training to your colleagues?	4,87

The lowest score is recorded for question no 5 “What is the applicability of the training content to your working context?” This result indicates, that the applicability of the training content currently is considered as relatively low due to presented topics are not yet transposed into the national legislation and are not in force.

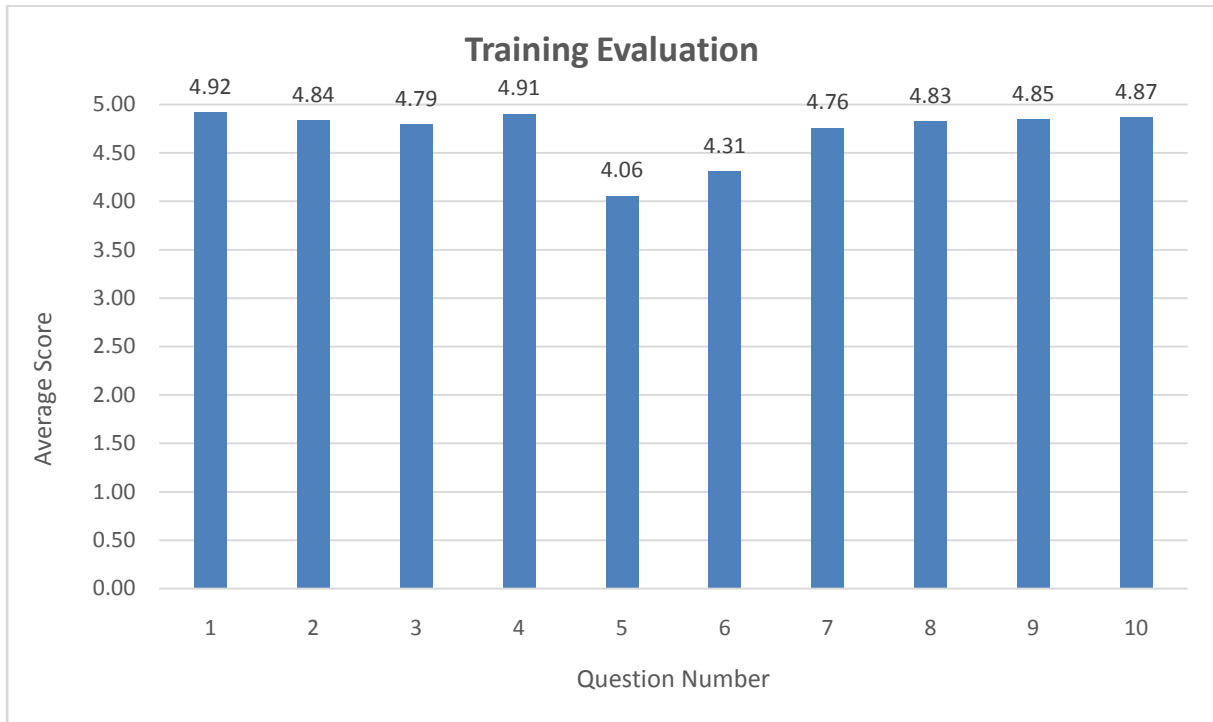


Figure 1 Training evaluation

Scoring for following presentations according to agenda was provided by the participants. Results of evaluation are showing in figure 2.

List of presentations:

1. Introductory presentation
2. Presentation of the provisions of the Directives from EU-UA Association Agreement
3. Progress in transposition of EU water sector requirements
4. Designation of river basins and sub- basins including Practical exercise in groups,
5. Typology, Reference Conditions and Classification Systems, including Practical exercise in groups
6. Identification of Water Bodies, including Practical exercise in groups
7. Preliminary flood risk assessment, including Practical exercise in groups
8. Preliminary flood risk assessment – examples from EU member states

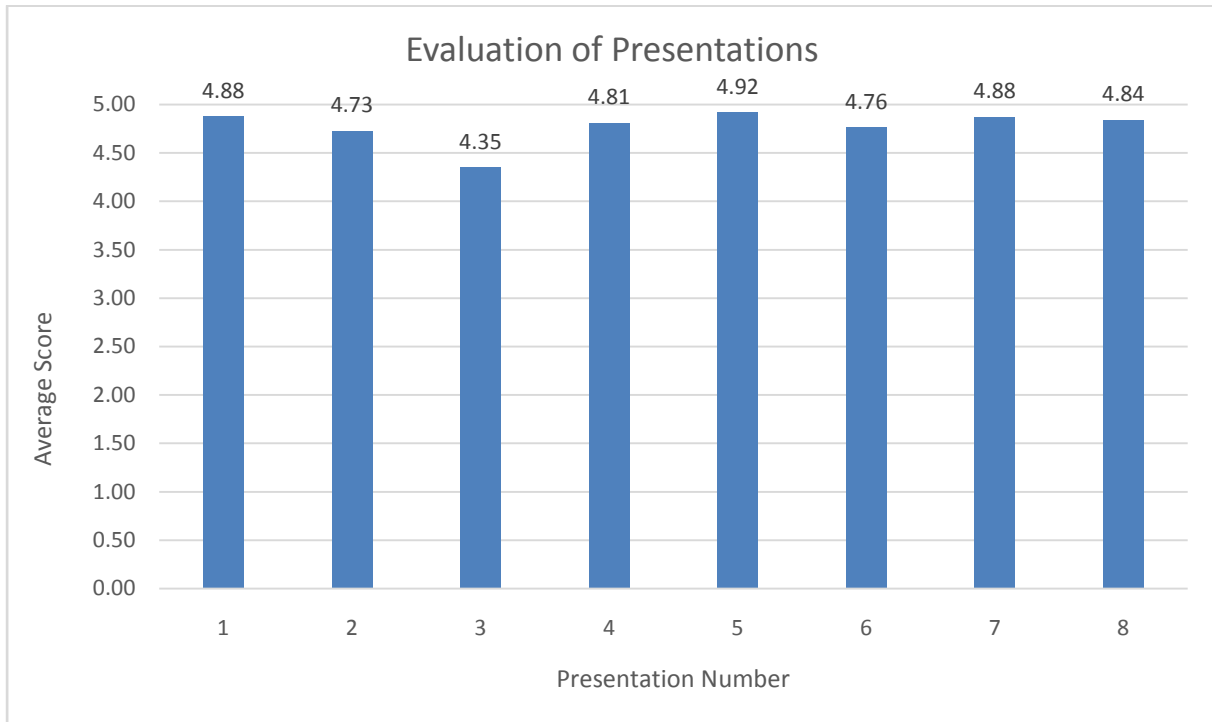


Figure 2 Evaluation of Presentations

Based on evaluation it is visible that participants are interested in the technical issues and practical exercise in groups.

Beside of scoring tables the Evaluation questionnaire contained three requests for comments:

1. Please provide us with recommendations of what could be improved next time such training is held.

Out of 33 participants ten (10) provided answers - 30,3% of participants. Following comments were obtained:

- Suggestion: to use examples that are related to a specific region during the seminar. For example, for Eastern part of Ukraine, Siverskyi Donets River Basin could be used or other rivers of this region.
- There was no information about change of the venue.
- 1. There was no information about change of the venue; 2. this information can't be applied in practice right now as there aren't any legislative acts with new approaches.
- 1. Bad option for mechanic transport (hotels); 2. there weren't any direct options (buses or trains) to come to the Seminar.
- One comment about seminar organisation - to serve coffee during the lecture is disrespect to the speaker.
- At Siversko-Donetsk BUVR we have not least problems then in Zakarpattia, so I propose to make Donbass the power house. We will be glad to see you and will provide you any assistance. And we have a talent pool.
- Hydrological issues should be done for engineer-hydrometeo staff - participants who is in charge for flow control, flood routing and ensure the efficiency of water management system in summer-autumn season.



2. Please provide us with recommendations of what could be improved next time such training is held.

3. Out of 33 participants six (6) provided answers – 18,8% of participants. Following comments were obtained:
- Clearer and easier way of information delivery to the audience. To work more with the particular participants of the seminar (tasks, workshops).
 - To engage more skilled business executive to organise such events.
 - To have more practical tasks.
 - To add additionally a workshop on working with GIS-systems.
 - Well done!
 - To extend our native expertise; be timely aware of the materials; to held when a particular task is given by State Agency of Water Resources or with little variation in time; examples of Wester part are not quiet suitable for Easter part.
 - To held a similar with the topic "environmental, air pollution"

4. Any other remarks.

Out of 33 participants twelve (12) provided answers – 33,3% of participants. Following comments were obtained:

- The place (city or town) should be chosen with easier access with other cities via train or bus; 2. Conference room should be more light and with air conditioner.
- 1. There was no banner or board or leaflet about the project, its tasks, objectives, etc.; 2. To improve the organization - to make announcement more clearly.
- A question about monitoring of water quality (technically) is quite interesting.
- Lecturer are very professional. Complicated material was given in easy and understandable form. Thanks a lot!
- This seminar was on the high level. Thanks organizers and specialists for their work.
- Thanks for hospitality.
- While working on the new Water Code of Ukraine, it is necessary to work closely together with hydrometeorological centre.
- In Siversko-Donetsk river basin there are some other sub-basins, apart from discussed during the seminar, like river Luhan in Lugansk region that could be considered separately following the same criteria as for the other sub-basins (Uda, B. Kamianka).
- I like this seminar a lot, especially training sessions 1 and 2. it will be useful for my further work! Thank you.
- This seminar was useful. All information was professionally delivered. Thank you.
- The seminar was on a high professional level. All information was useful.
- The seminar was held on a high level. Given materials are useful, materials in the presentations and lectures are very informative. Practical tasks helped to reinforce the material. Thank you.

All relevant comments will be taken into account during preparation of the next workshops and are incorporated into conclusions and recommendations.



6. IMPACTS ACHIEVED

Based on the feedback obtained from participants using the Evaluation questionnaire as well as discussions held after all training sessions it is possible to note that Sloviansk workshop significantly contributed to capacity strengthening of involved beneficiaries in following areas:

- Participants were informed about provisions of the EU water directives concerned the EU – UA, AA requirements, regarding the transposition and implementation and APENA project support in this field.
- Progress in transposition of the EU water sector requirements and preparation of Draft Law of Ukraine amending the Water Code of Ukraine (reg. #3603) to support the transposition of the WFD and FD.
- To understand the process of the delineation and typology of the surface water bodies in line with the WFD;
- Being the participants autonomous in identification, delineation and typology of the surface water bodies;
- Delineation of river basin and sub – river basins;
- To inform the participants of the training the other approaches of Identification and designation of the heavily modify and artificial water bodies according to ICPDR’s way and other national approaches
- Preliminary flood risk assessment (PFRA) according to the Floods directive;
 - Participants of the training provided their vision of areas with significant flood risks in their regions on maps (see annex D. PFRA Working group outcomes).

7. CONCLUSIONS AND RECOMMENDATIONS

Conclusions:

Sloviansk Workshop/Training on the Water Framework Directive and the Floods Directive achieved proposed objectives to understanding the process of the delineation and typology of the surface water bodies in line with the WFD and Preliminary flood risk assessment (PFRA) according to the Floods directive.

Recommendations:

Taking into account experiences acquired during this event and recommendations/the feedback gathered from the participants following steps will be implemented in order to improve the training process as well as the project implementation:

- Based on the participant’s comments it is necessary from APENA project to pay more attention on logistic issues concerning the event preparation and implementation.
- To revise Agenda in order to provide more space for working group practical assignments.
- To establish closer cooperation with Ukrainian Hydrometeorological Service related to the legal acts drafting.
- To ensure development of the banner and the leaflet providing information about APENA project.





ANNEXES:

- A. Agenda**
- B. List of participants**
- C. Presentations**
- D. PFRA Working group session outcomes**
- E. Workshop photo documentation**