



On-site Training & Study Tour Report

REG-5 and ST-5: Regulatory and organizational issues of decentralized water management

16-19 April 2018

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| 1 | On-side Training & Study Tour Report “Regional Activities on Regulatory and organizational issues of decentralized water management” | Arnulf Schönbauer | Suzan Taha |



THE SWIM AND H2020 SUPPORT MECHANISM (2016-2019)

The SWIM-H2020 SM is a Regional Technical Support Program that includes the following Partner Countries (PCs): Algeria, Egypt, Israel, Jordan, Lebanon, Libya, Morocco, Palestine, [Syria] and Tunisia. However, in order to ensure the coherence and effectiveness of Union financing or to foster regional co-operation, eligibility of specific actions will be extended to the Western Balkan countries (Albania, Bosnia Herzegovina and Montenegro), Turkey and Mauritania. The Program is funded by the European Neighborhood Instrument (ENI) South/Environment. It ensures the continuation of EU's regional support to ENP South countries in the fields of water management, marine pollution prevention and adds value to other important EU-funded regional programs in related fields, in particular the SWITCH-Med program, and the Clima South program, as well as to projects under the EU bilateral programming, where environment and water are identified as priority sectors for the EU co-operation. It complements and provides operational partnerships and links with the projects labelled by the Union for the Mediterranean, project preparation facilities in particular MESHIP phase II and with the next phase of the ENPI-SEIS project on environmental information systems, whereas its work plan will be coherent with, and supportive of, the Barcelona Convention and its Mediterranean Action Plan.

The overall objective of the Program is to contribute to reduced marine pollution and a more sustainable use of scarce water resources. The Technical Assistance services are grouped in 6 work packages: WP1. Expert facility, WP2. Peer-to-peer experience sharing and dialogue, WP3. Training activities, WP4. Communication and visibility, WP5. Capitalizing the lessons learnt, good practices and success stories and WP6. Support activities



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1. BACKGROUND AND OBJECTIVES

1.1 Background - Rationale of the activity

As part of the SWIM-H2020 SM workplan related to the Regional Activities on “**Regulatory and organizational issues of decentralized water management (DcWM), dealing also with drafting and implementation of management plans at sub-national level**” a two days’ regional on-site training (activity No. REG-5) was organized and held in Austria, combined with a two-day Study Tour (Activity No. ST-5). The training also included a Peer-to-Peer (P2P) session related to the P2P activities no. 7 and no. 8 addressing the same topic).

1.2 Training and Study Tour Objectives

Objectives of the On-site Training:

The overall aim of the regional on-site training REG-5 was to enhance the knowledge of the key stakeholders who are involved in different aspects of Decentralized Water Management (DcWM) in the partner countries to regulatory and organisation issues of decentralized water management.

REG-5 built on the regional on-site training and outcomes achieved at the REG-4, which took place in July 2017 in Brussels. The agreed themes were:

- Elaboration of a mutual understanding of key terminology and challenges of DcWM;
- Public participation in DcWM, e.g. sharing of experience how to mobilize and achieve public participation in DcWM, and related participatory methods / mechanisms;
- Groundwater issues, e.g. delineation and risk management of groundwater bodies, users’ involvement in the protection of groundwater at the local level;
- Water Information Systems (WIS), in the broader sense, e.g. how stakeholders in a “decentralised set-up” cooperate with each other and exchange information (data).

Objectives of the Study Tour

The objective of the study tour was to provide good experiences and practice on DCWM. The visiting sites were selected corresponding to the themes of the on-site, namely on groundwater management, drafting and implementation of protection and restoration measures, water provision for agricultural, transboundary water management (regional level) and wastewater treatment management (municipal level).

The common aim for the on-site training and the study tour was to strengthen the regional dialogue - already established between the participants who attended the preceding On Site



Regional training (Reg 4) on issues around DcWM or to establish a new exchange if the participants were new to the training (i.e. did not attend the REG-4 on-site training).

To make use of the situation that respective experts were gathering together; a Peer-to-Peer (P2P) session related to the P2P activities no. 7 and no. 8 addressing the topic of DcWM was considered in the programme of the on-site training

The **specific objectives** of the workshop have been identified as follows:

- Establish mutual understanding amongst the participants of key terminology related to decentralised water management.
- Introduce the participants to the basic principles of public participation and crucial ingredients for success, including methods / mechanisms for participation in DcWM and key steps involved in planning effective public engagement processes and enhance experience sharing in this regard;
- Introduce the participants to the data requirements for River Basin Management Plan (RBMP) according to the EU WFD in addition to the governance structure necessary to ensure that reliable data is available and accessible for planning, monitoring and assessment.
- Introduce the concept of groundwater bodies as unit for decentralised water management and protection measures at the local level

2. METHODOLOGY AND STRUCTURE OF THE ON-SITE TRAINING AND STUDY TOUR

2.1 Methodology

The following steps have been followed when designing the regional training:

- Defining the training and study tour objectives, including the main topic/concept around which the training will evolve
- Defining the expected outcomes
- Defining the target group to be trained
- Defining the training approach and specificities

The on-site training and study tour objectives and main concept:

The training objectives have been determined by the outcome of REG-4 held in July 2017. Participants were asked to identify topics they wish to be followed up in REG-5. A number of topics were given within a wide range of themes; too many to be covered in a 2 day-training. The topics were grouped and selected based on a scoring of each proposed topic taking into



account such criteria as popularity, added value (at the regional level), expected impact (at the regional level) and constraints). These were then categorised into the following:

- topics which were in the REG-4 programme and wish was expressed to continue in REG-5
- topics linked to the EU Water Framework Directive

The presentations provided by the REG 4 participants, in addition to the group discussions and break-out sessions of REG-4, showed that the terminology and concept of DcWM as understood by the participants differed widely. In order to enable a mutual understanding between the participants and trainers, an introductory session on terminology and concept was scheduled at the beginning of REG-5.

The expected outcomes of the on-site training and study tour:

- Enhance the knowledge of the high-level stakeholder's of the main concepts and terminology of DcWM, provide examples of and tools for its implementation (by keeping the context to the EU Water Framework Directive)
- Continue / start a regional dialogue on issues around DcWM between decision-makers, experts and international technical experts, across key sectors, establishing the cornerstones for the application of common practices, harmonized approaches, synergetic activities, regional cooperation, etc. in topics of mutual interest;
- Stakeholders have conducted targeted participatory hands-on exercises which can be replicated in the PCs with additional stakeholders and peers.

The target group:

As the REG-5 was a follow-up of REG-4, the approach was to invite the same participants from REG-4. This approach was not followed 100 % by the National Focal Points of the Project Countries (PCs) and in some cases new experts were suggested. Therefore, the group consisted of a mix of people with different level of knowledge on the training subject.

The principle concept for the nomination / selection of the new participants was as follows:

Two participants/ representatives were selected (among the nominees provided by the PCs) and invited from each PC, from the groups mentioned below:

- Key stakeholders-decision makers, indicatively from leading Ministries or related institutions/ agencies at the level of General Directors, Assistant Secretary Generals, Technical Directors, who are directly involved in the design, planning, and/or the decision-making and policy formulation on Integrated Water Resources Management
- Representatives from River Basin Organizations and from other regional/local authorities who are directly involved in the local water planning and management and/or implementation aspects at river basin or regional level (indicatively at the level of Technical Director or Project Manager)



These two representatives were requested to represent one of the following sectors: the water sector, the agriculture/ irrigation sector, any other water-intensive sector (e.g. industry, energy), a main water utility.

The focal points from the PCs were asked to nominate up to 4 candidates, 2 out of which were selected and invited to participate to the training, keeping in mind the following criteria used for the nomination:

- *Relevance: In order to reap the intended benefit from the training, the PCs participants/ representatives have to be directly involved in the different aspects of decentralized water management planning and implementation, and be able to demonstrate a direct professional relationship or function in this area*
- *Knowledge: An adequate scientific/ technical background on water resources management and planning is necessary*
- *Potential: Expected years ahead of the candidate/trainee in relevant position(s) and opportunities to apply and impact on others/ further disseminate the knowledge/information/expertise gained.*
- *Motivation: Evidence of motivation and willingness to improve the situation through implementing new and innovative ideas.*
- *Ability to communicate: capacity to communicate well with others and willingness to share/transfer the knowledge/expertise gained.*
- *Willingness and Availability to actively cooperate with the SWIM-H2020 SM: Time availability to follow-up the post-training activities including the peer-to-peer, willingness to provide information during and after the completion of the project, take initiatives for the mainstreaming and implementation of the things he/she had acquired, etc.*

In addition to the above, representatives from NGOs of the PCs were invited.

The full list of participants can be found in the Annex.

The training and study tour approach and specificities

In order to achieve the workshop objectives, a highly dynamic, interactive, facilitated and participatory approach has been adopted, including the following:

- Presentations and break-out session on the terminologies and concept of DcWM
- Presentations and break-out session on information, education and participation in decentralised water management.
- Presentations, case example and break out session on Water Information Systems (in Europe) focusing on stakeholders' set-up and cooperation for data ex-change.
 - complementary item of the agenda: Presentation on the INSPIRE EU Regulation
- Presentation and break out session of Groundwater Bodies as management units and related concept
- Peer to peer sessions to agree on the expected outcomes



- Questionnaires, to be filled by the participants, in order to get feedback on the training and study tour

For this purpose the training and study tour were developed around 5 building blocks, as presented in detail in Section 2.2 below.

2.2 Structure of the On-Site Training and Study Tour

The on-site training and study tour were developed around five building blocks, as presented in the preceding chapter. Each building block was designed to meet a well-defined purpose, while the specific training activities were prescribed to underpin them.

Table 1: Building blocks of the regional training, their purpose and related activities

| Building Block | Purpose | Related Training Activities |
|--|--|---|
| Terminology and concepts of DcWM | <ul style="list-style-type: none"> ▪ Establishing a common understanding on the basic concepts and definitions of DcWM ▪ Provide guidelines on effective multi-level governance in water administration ▪ Briefing about the status of DcWM in PC | <ul style="list-style-type: none"> - Presentation on terminology, challenges and guidelines for DcWM / Multi-level governance - Break-out sessions whereby the participants gave a briefing about the status of DcWM in the PCs - Plenary session on the main challenges for implementation of DcWM in PCs - site visits to institutions representing different levels and roles in DcWM |
| Public/stakeholder information in DcWM | <ul style="list-style-type: none"> ▪ Guidance on public/stakeholder information, education and participation in decentralized water management – challenges, success factors ▪ Facilitating exchange of experiences on public / stakeholder information, education and participation in decentralized water management made in the participants countries' | <ul style="list-style-type: none"> - Presentation on information, education and participation in decentralised water management. When, why and how? - Break-out session on experiences with public / stakeholder information, education and participation - How to make it work? - Site visit to an example of community involvement in water supply and wastewater treatment - Site visit to an example of stakeholder involvement in river restoration and flood protection - Site visit to an example of stakeholder involvement in irrigation scheme operation |
| Water Information Systems (WIS) in DcWM | <ul style="list-style-type: none"> ▪ Guidance on cooperation of stakeholders in a decentralised set-up for | <ul style="list-style-type: none"> - Presentation on mapping of Water Data in River Basin Management - Presentation on fostering data |



| | | |
|---|--|--|
| | <p>exchange of information</p> <ul style="list-style-type: none"> ▪ Examples for governance framework to ensure effective data collection, exchange and management in DcWM | <p>exchanges for River Basin Management planning</p> <ul style="list-style-type: none"> - Break out session on mapping data availability and source or proxy in each PC according to the types of data needed for River Basins Management Plans (RBMPs) - Break out session: brainstorming on “how to convince politicians and decision makers to set-up and enforce water related data exchange and data management agreements - Case example: spatial data in the Water Information System for Europe (WISE) platform - the case of Cyprus - Presentation on the European Union Directive INSPIRE. Background and Principles |
| Groundwater Management as management unit for DcWM | <ul style="list-style-type: none"> ▪ Familiarizing with the concept of groundwater body delineation and characterization; risk assessment and protection measures | <ul style="list-style-type: none"> - Presentation on groundwater body delineation and characterization; risk assessment and protection measures - Breakout sessions: “Participants brief, discuss and conclude the possibility to use groundwater bodies as management units in partner countries |
| Facilitating the peer-to-peer process | <ul style="list-style-type: none"> ▪ Enable personal peer-to-peer communication | <ul style="list-style-type: none"> - Peer-to-peer session with non-peer countries as observers - Determining the scope of topics and proposed outcomes for the peer pairs |
| Knowledge Evaluation | <ul style="list-style-type: none"> ▪ Assessing the advancement of knowledge of the trainees after attending the workshop | <ul style="list-style-type: none"> - Completing of Q1 Training Assessment Questionnaire after the workshop - Evaluation of the completed Q1 Questionnaires by the trainers, and production of relevant statistics |
| Workshop Evaluation | <ul style="list-style-type: none"> ▪ Get participants’ feedback on organizational, administrative and planning issues before and during the event ▪ Get participants’ feedback on technical aspects of the training ▪ Improve future regional training events on the basis of the comments received | <ul style="list-style-type: none"> - Completing of the Evaluation Questionnaire (Q2) (refer to Annex) by the participants - Evaluation of the completed Q2 Questionnaire by the organizers and production of relevant statistics - Follow-up interview with selected participants to get further feedback on the event |

The key points of the different presentations and break-out sessions are presented below:

In the break-out session participants were grouped to French speaking and English speaking countries.



Presentation: Decentralized water management – scale and scope

Presented by: **Mr Arnulf SCHOENBAUER**, SWIM- H2020 SM Non-key Expert, UBA

Key points

Terminology: Technical versus organisational

Aspect and challenges in the decentralization process.

OECD guidelines for effective management of multilevel governance.

Break-out and plenary session: Decentralized water management – scale and scope

Facilitated by: **Mr Arnulf SCHOENBAUER**, SWIM- H2020 SM Non-key Expert, UBA and
Mr Eric MINO, SWIM-H2020 SM Non-key Expert, SEMIDE/EMWIS

In the first part of the session, participants were asked to brief each other on the Government levels and agencies in their countries in charge for water management

In the second part the participants identified the most challenging and important topics (listed in the OECD guidelines) that are needed for effective management of multi-level governance in their countries (see presentation) as per the following:

1) The English speaking group (Jordan, Palestine, Egypt): (a) “Encouraging performance measurement to evaluate and monitor the outcomes of water policy at all levels of government”, (b) “Responding to the fragmentation of water policy at the sub-national level by facilitating coordination across sub-national actors and between levels of government”. Also indicated were (c) “creating, updating and harmonising water information systems and databases for sharing water policy needs at basin, country and international levels ” and (d) “fostering capacity-building at all levels of government”.

The French speaking group: (a) “creating, updating and harmonising water information systems” as well as (b) “adopting horizontal governance tools to foster coherences across water-related policy areas and enhancing inter-institutional co-operation across ministries and public agencies”

In the plenary session both groups reported back their findings.

Presentation: Public/stakeholder information, education and participation in decentralised water management

Presented by: **Mrs Melanie MURO**, SWIM-H2020 SM Non-key Expert, MILIEU

Key points of the presentation:

Public participation - When, why and how?

How to make it work? – Exploring challenges and strategies for realizing the potential of participation



Break-out session and plenary session: Public/stakeholder information, education and participation in

decentralised water management

Facilitated by: **Mrs Melanie MURO**, SWIM-H2020 SM Non-key Expert, MILIEU and **Mr Eric MINO**, SWIM-H2020 SM Non-key Expert, SEMIDE/EMWIS

Participants were asked to:

- Share experiences
- Identification of key challenges and possible strategies to respond to these challenges

Participants identified the following *key challenges* for successful stakeholder and public participation:

1. Lack of legal and institutional basis for participation.
2. Lack of participation initiatives at local level.
3. Limited political commitment and resources to fund participative initiatives.
4. No continuity of processes or follow-up actions once processes are completed.
5. No funding/funding for sustained participation (only one-off processes).
6. Insufficient participation capacities and skills of the public/stakeholders and authorities.
7. Beneficiaries have limited awareness of (project/planning impacts) and therefore little motivation to participate.
8. Roles and responsibilities of all actors involved are unclear.
9. Lack of transparency, openness, information-sharing.
10. Not all relevant interests and beneficiaries are included/represented.
11. Lack of participation traditions and culture.
12. Mixed ownership of water resources.
13. Lack of public awareness/understanding of the interconnectedness of the water system and water uses.
14. Lack of trust in the institutions.
15. Public is not involved in the evaluation of policy's impact or the service performance.

Participants identified the following strategies to tackle some of these challenges (number of challenge include in brackets);

- Institutionalizing participation at local level (1 and 2).
- Establish a regular schedule of meetings (4, 5, 11, 14 and 15).
- Establish mechanisms to allow for co-financing of participation processes by beneficiaries (3 and 7).
- Allocate clear roles and responsibilities to participants and authorities (8, 9 and 14.)

In the plenary session both groups reported back their findings.



Case example: spatial data in the Water Information System for Europe (WISE) platform

Presented by: **Ms Eleni AVRAMIDI**, SWIM- H2020 Non-key Expert, LDK

Key points of the presentation:

Current situation of data reporting in Europe

Water Information System for Europe

Case study: Reporting of the Second River Basin Management Plan of Cyprus based on the WISE requirements.

Presentation: INSPIRE Background and Principles

Presented by: **Ms Gabriele VINCZE**, Umweltbundesamt

Key points of the presentation:

Obstacles preventing the widespread use of spatial data needed

INSPIRE Vision & Principles

INSPIRE Scope & Components

Implementing Rules & Technical Guidance

Presentation: Data Management for River Basin Management Planning

Presented by: **Mr Eric MINO**, SWIM-H2020 SM Non-key Expert, SEMIDE/EMWIS

Key points of the presentation:

Data needs for Integrated Water Resources Management

Examples from EU twinning projects:

- Sebou river basin
- Algerois river basin

Break-out session: data source mapping for River Basin Management planning

Presented by: **Mr Eric MINO**, SWIM-H2020 SM Non-key Expert, SEMIDE/EMWIS

The participants were asked to map data availability and source or proxy in their country according to the types of data needed for River Basin Management Planning (presented during the plenary session and provided on paper to the participants). Good practices and difficulties were discussed between participants in 2 groups in order to identify gaps,



restriction to access/use data and to propose solutions to improve data availability and management.

Key outcomes:

Data providers in each country are well identified but access remains limited due to the lack of data sharing agreement, data exchange format and harmonized tools. In some cases, the multiplicity of data providers for the same type of data (e.g. water services) prevents any consolidation of information at neither the river basin nor national level. When data is exchanged between administrations, it is based on formal written requests or agreements with an important delay. In most cases, investing in modern monitoring infrastructures (e.g. telemetry for water quantity and water quality) was highlighted as an urgent matter to improve data availability. Some good practices have been identified such as decentralized data quality management by river basin agencies in Morocco (i.e. data producers for hydrology); close to real-time data on dams' water levels and abstraction in Tunisia; data integration and sharing with a central water databank in Palestine.... To improve data production and shared access, the development of a legal and regulatory framework was pointed out as an enabling environment. It should be linked with an investment programme to support data providers to work together in building an interoperable water data infrastructure covering monitoring, data banking, modelling, processing and dissemination.

Presentation: Fostering Data exchanges for River Basin Management Planning

Presented by: **Mr Eric MINO**, SWIM-H2020 SM Non-key Expert, SEMIDE/EMWIS

Key points of the presentation:

Comparison of legal and regulatory frameworks

Some recommendations

- Dedicated articles in water law
- Application degree
- Additional bylaw

Break-out session: Fostering political engagement in water information systems

Facilitated by: **Mr Eric MINO**, SWIM-H2020 SM Non-key Expert, SEMIDE/EMWIS and **Mr Arnulf SCHOENBAUER**, SWIM- H2020 SM Non-key Expert, UBA

The 2 groups of participants were involved in brainstorming on: "how to convince politicians and decision makers to set-up and enforce water data exchange and management agreements". They were guided by the following questions: Politicians' motivations; who are they listening to/can influence them? Are they aware of data challenges (e.g. lack monitoring, financing)? Do they use / require data/indicators ...?

Key outcomes:



The participants identified the following drivers to support political commitment in the development of water information systems: emotions linked to a crisis situation, long term projections and scenarios, the needs of populations. Communication towards politicians should be linked to these drivers and focus on water information systems as i) a solution to limit / mitigate the risk of new water crisis; ii) a must to attract the interests of financial institutions. It was noted that it would be relevant to translate the consequences of lack of data for infrastructure projects, social economic and environmental impacts. Politicians need to be reassured about data security and integrity linked to any information sharing system. Finally, politicians are usually more open to consider opinions coming from citizens, parliamentarians, retired senior officials from the administration and councillors from their political party.

Presentation: Groundwater Management - GW-Body delineation/characterisation/risk assessment)

Presented by: **Mr Johannes GRATH**, SWIM- H2020 SM Non-key Expert, UBA

Key points of the presentation:

Groundwater body delineation: the EU requirement and how Austria had implemented it
Characterisation and risk assessment (significant pressures)

Break-out session: Groundwater bodies as management units in partner countries

Facilitated by: **Mr Johannes GRATH**, SWIM- H2020 SM Non-key Expert, UBA

The following topics were discussed in the session

1. Criteria for GW-body delineation
 - aiming at creating adequate management units, according to the requirements in your country
 - considering the elements of a conceptual model (natural characteristics, pressures, uses, ...)
 - Sources of information?
2. Which stakeholder/institutes/agencies can be identified – when talking about status of GW-bodies and programme of measures?

Participants were grouped according to the country of origin and discussed the above mentioned questions. Since it was the aim to allow for intensive discussions in between participants, the time for presentations was limited and it was agreed that experts from two different countries present their findings.

The key outcome from the two presentations was rather similar, hence it is summarized as



follows:

As main criteria for GW-body delineation, the hydrological and hydrogeological information were mentioned first – comprising information concerning rainfall, water flow systems and catchment areas. Moreover, it was mentioned that transboundary issues should be considered. As pressures, water abstractions and various sources of pollution were mentioned.

Supportive information for GW-body delineation could be provided by administrative units (depending on the country) e.g. groundwater units, universities and research institutes for groundwater, well owners (exploration and observation wells), geological services (geological and hydrogeological maps,

Concerning identification of stakeholder/institutes/agencies, which should be involved when the status of GW-bodies and a programme of measures are discussed, in the first line, the Federal Institutes and Ministries were mentioned. Moreover, the groups of main user like agricultural associations, representatives of industrial and domestic use but also NGOs were mentioned

The study tour was organised to the following sites along the subjects described below:

Visiting site: Marchfeld canal, Deutsch Wagram, Lower Austria

Organised by: **Mr Arnulf SCHÖNBAUER**, SWIM- H2020 SM Non-key Expert, UBA and **Ms Peggy MACAIGNE**, SWIM- H2020 SM Non-key Expert, UBA

Key points of the visiting site:

The Marchfeld canal system was built in the years 1986 to 2004 to improve the water management and natural environment in the region of Marchfeld. These include the long-term safeguarding of water supply, the improvement of water quality, the improvement of flood protection and the restoration of watercourses. At its core, the Marchfeld canal system consists of a newly created network of waterways, through which Danube water is fed into the Marchfeld. Due to the close-to-nature construction method, the project is considered a successful combination of water management, ecological and tourism objectives.

The Marchfeld canal system covers the long-term high water demand of the region through direct extraction of the supplied water by the farmers and by means of groundwater recharge. With the groundwater enrichment plants - a new development in Austria - groundwater loss can be compensated in the long term at low groundwater levels.

In a presentation given at the premises by the managing director (Mr. Wolfgang Neudorfer) of the canal management institution “Betriebsgesellschaft Marchfeldkanal”, participants were introduced to the objective of the channel, the legal framework and organization of the managing institution and how the collaboration between the institution and the stakeholders (farmers, community supplied with fresh water) is set-up and implemented.

The visit was concluded with a tour to the Weir Number 4 – with a dam and a fish pass) – and to the small hydro power station (which produces electric energy to cover the demand of



the building of the managing institution)

<http://www.marchfeldkanal.at/home.htm> (only in German language)

Visiting site: Restoration of the Lower Morava floodplains @ Viadonau Regional office Angern, Lower Austria

Organised by: **Mr Arnulf SCHÖNBAUER**, SWIM- H2020 SM Non-key Expert, UBA and **Ms Peggy MACAIGNE**, SWIM- H2020 SM Non-key Expert, UBA

Key points of the visiting site:

The tasks of VIADONA include the planning, allocation and control of water construction projects. In addition, regulation, conservation and development of water and flood protection systems occupy an important position within the service portfolio of VIADONAU. All possible measures are taken to protect and improve the natural environment and make it as natural as possible. The waterways are planned, constructed and maintained in accordance with the waterway legislation in such a way that they are usable by all users without danger.

The river March is the biggest left bank tributary in the upper course of the Danube and simultaneously the only near-natural lowland river of Pannonian character in Austria. Periodic floods are characteristic of the meadows and the floodplain forests along the March. Due to the regulations and intensification measures during the former century, the river is only in moderate status. The habitats of endangered animals and plant species are only limitedly available.

Participants were introduced by Mr Franz Steiner of VIADONAU to the structure of the institution and were shown the results of the EU co-funded project “Restoration of the Lower Morava floodplains” ambitious restoration measures and species protection projects.” The project’s objectives are the extensive restoration of a near-natural river dynamics in the floodplain forests of the Lower March, the increase in plants as well as the targeted protection measures for endangered species.

The most important task is the restoration of a near-natural river dynamics. In order to achieve that, existing regulation structures, such as large stone armour blocks along the riverbanks, are in part being utterly removed and dismantled around the transversal structures in order to initiate a dynamic development. By doing so, the connection between the river and the adjoining riparian areas is being restored.

The project was implemented in cooperation with the Environment Agency of Austria and the community affected and benefiting from the project.

Visiting site: “Boden.Wasser.Schutz.Beratung”, Advisory service of the Chamber for Agriculture for Upper Austria, St. Florian Upper Austria



Organised by: **Mr Arnulf SCHÖNBAUER**, SWIM- H2020 SM Non-key Expert, UBA and **Ms Peggy MACAIGNE**, SWIM- H2020 SM Non-key Expert, UBA

Key points of the visiting site:

In a presentation by Mr Sebastian Friedl-Haubner from the Advisory service of the Chamber for Agriculture for Upper Austria (BWSB), the participants were introduced to the objective of the advisory service, mainly the protection of water and soil. The various aspects of the topics were highlighted including the training of farmers who work as knowledge disseminator in the agricultural community.

A set of measures which are applied in agriculture for improved water protection were presented.

The practical application of the measures was shown to participants through visiting a farm. The farmer, who is one of the trained knowledge disseminator, shared his experiences with participants.

<https://www.bwsb.at/> (only in German language)

Visiting site: Water supply cooperative Dingdorf & Wastewater management cooperative Dingdorf; Upper Austria

Organised by: **Mr Arnulf SCHÖNBAUER**, SWIM- H2020 SM Non-key Expert, UBA and **Ms Peggy MACAIGNE**, SWIM- H2020 SM Non-key Expert, UBA

Key points of the visiting site:

Mr Wolfgang Aichlseder, from the Water Management Advisory Service of the Federal State Administration for Upper Austria (Upper Austria Water) presented the institutional solution in water supply and waste water treatment in rural areas in Upper Austria.

Participant learned about the cooperation of the advisory service and the community of Dingdorf in Upper Austria in the construction, operation and financing of the water supply and wastewater treatment. Dingdorf has around 70 inhabitants and 25 houses.

Ms Hermine Wesely, the chairperson of the cooperatives in Dingdorf presented the technical features of the waste supply and the wastewater treatment and showed the steps taken from the beginning of the initiative to the finalisation of the construction and operation.

<http://www.ooewasser.at/dingdorf-wasser> & <http://www.ooewasser.at/dingdorf-abwasser>
(only in German language)



3. ON-SITE TRAINING AND STUDY TOUR RESULTS

SWIM-H20202 team succeeded to mobilise all of the project countries and a critical mass of NGOs to participate in the regional training as indicated in Table below.

Table 2: Workshop participation/ demographics

| | |
|--|---------------------------------------|
| Total No. of participants from the PCs | 24 |
| Number of PCs that were represented | 8 (DZ, EG, JO, IL, LB, MO, PS, TN) |
| Gender balance (% of women participants from the PCs) | 39% |
| NGO representation: | |
| No. of participants from NGOs | 8 |
| No. of PCs represented by NGOs | 7 |
| No. of EU experts (key experts and international speakers) that participated | 11 |



4. EVALUATION OF THE TRAINING AND STUDY TOUR

Two categories of indicators have been used to evaluate the workshop: a) impact indicators, reflecting the direct impact of the workshop, and b) evaluation indicators, reflecting the assessment of the technical quality of the workshop, and the quality of the workshop logistics/ organisational aspects, as perceived by the participants. The indicators and associated ratings are presented in the following tables, while the responses' classification is presented in Figures 1-3.

Table 3: DRMM Workshop Impact Indicators (reflecting the impact of the workshop)

| Workshop participation | |
|--|--------|
| Total No. of participants from the PCs | 24 |
| Number of PCs that were represented | 8/8 |
| Gender balance (% of women participants from the PCs) | 39 % |
| Changes in awareness, knowledge and skills | |
| Improvement of the participants in answering the Questionnaire in % note: for low % improvements, the starting point was between 75 and 98% | 2-20 % |

Table 4: DRMM Workshop Evaluation Indicators (reflecting the assessment of the technical quality of the workshop as perceived by the participants)

| Diversity of the workshop presentations and activities | |
|---|----------|
| No. of presentations on international country examples (sharing of experiences, good practices, etc.) | 8 |
| No. of training-oriented presentations (on concepts, methodologies, etc.) | 6 |
| No. of hands-on exercises in breakout groups | 4 |
| Rating of the technical quality of the workshop (average scores) | |
| Adequacy of the presentations (presentations correspond to the planned objectives and enhance shared understanding) | 3.19 / 4 |
| Clarity, coverage and sufficiency of concepts, objectives, anticipated outputs and outcomes | 3.00 / 4 |
| Usefulness of the distributed material | 3.05 / 4 |
| Efficiency and effectiveness of the facilitation | 3.43 / 4 |



| | |
|-----------------------------|----------|
| Overall rating of the event | 3.38 / 4 |
|-----------------------------|----------|

Table 5: REG-5 Workshop Evaluation Indicators (reflecting the assessment of the quality of the workshop logistics/ organisational aspects as perceived by the participants)

| Rating of the quality of the workshop logistics/ organizational aspects (average scores) | |
|---|----------|
| Appropriate handling of invitations, visa support, information sharing and smoothing obstacles | 3.62 / 4 |
| Efficient logistics: accommodation, transportation, location of venue and interpretation | 3.71 / 4 |
| Provision of support (if requested) for participants' preparation for the event | 3.44 / 4 |
| Efficient and effective follow-up of preparations and progress towards the event | 3.38 / 4 |
| Planning for the event: selection and design of methodology, programme/ daily agenda and work rules | 2.31 / 4 |
| Smooth flow of programme, efficient handling of emerging needs and attentiveness to participants concerns | 3.48 / 4 |

Figure 1: Classification of the participants' replies to the indicators reflecting the technical quality of the workshop

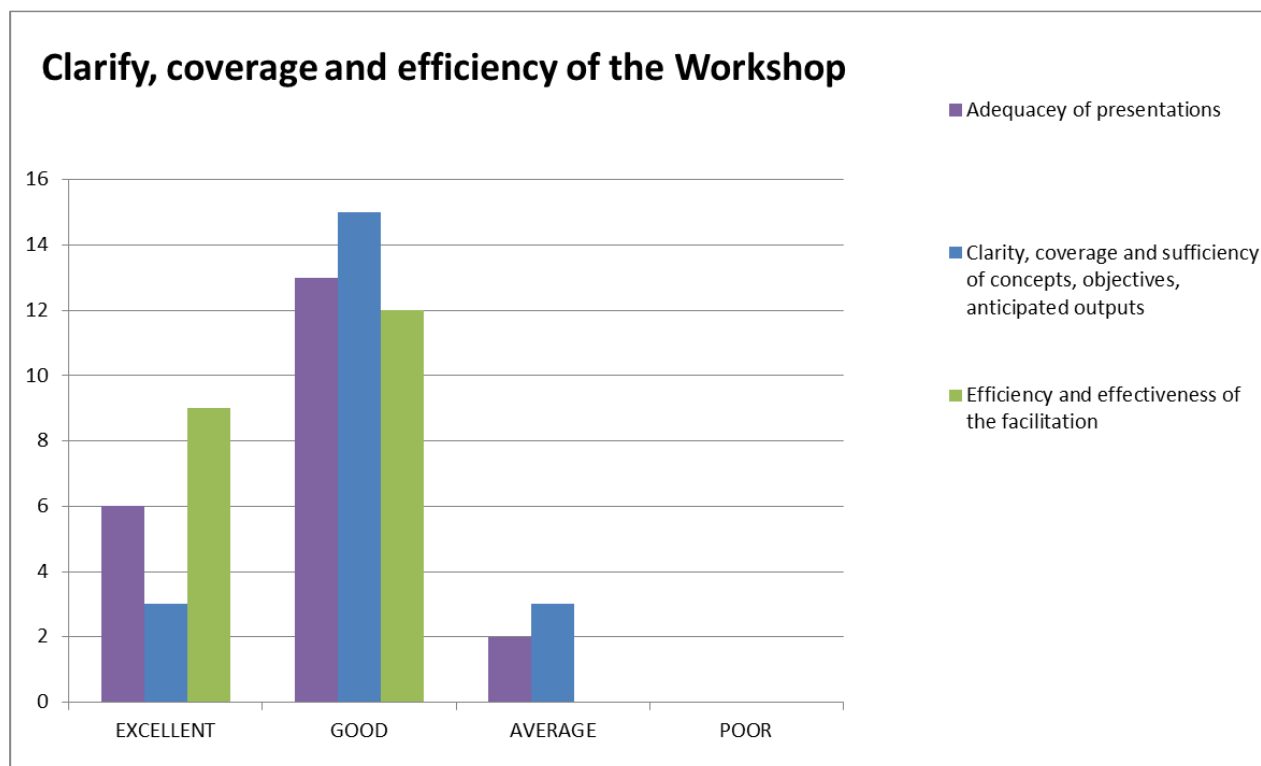


Figure 2: Classification of participants' replies to the indicators reflecting the quality of the workshop logistics/ organizational aspects (part 1)

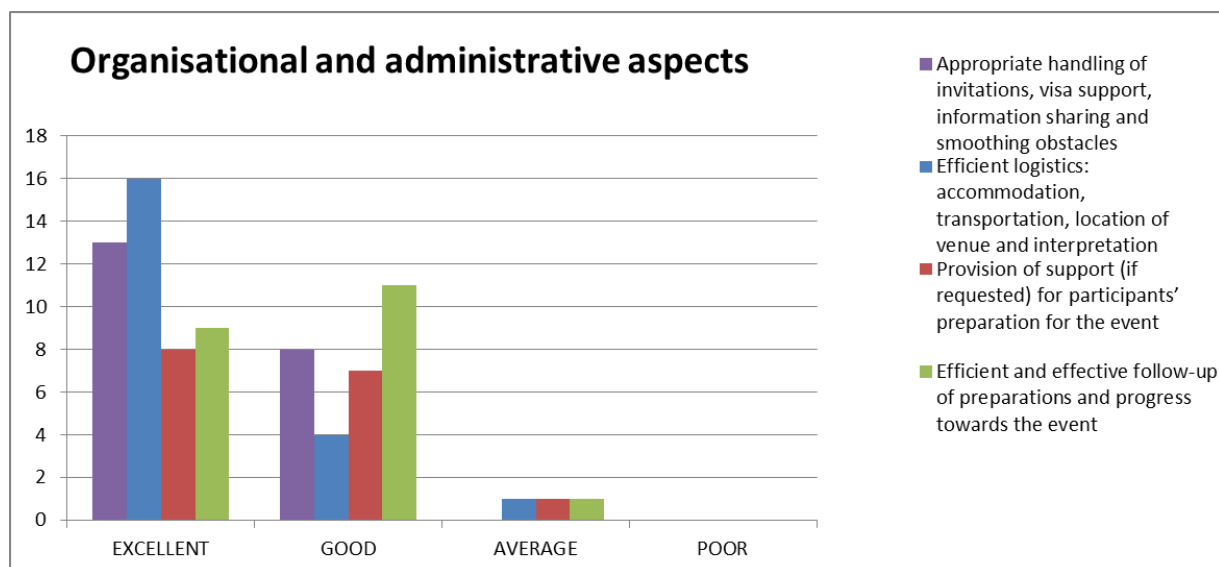
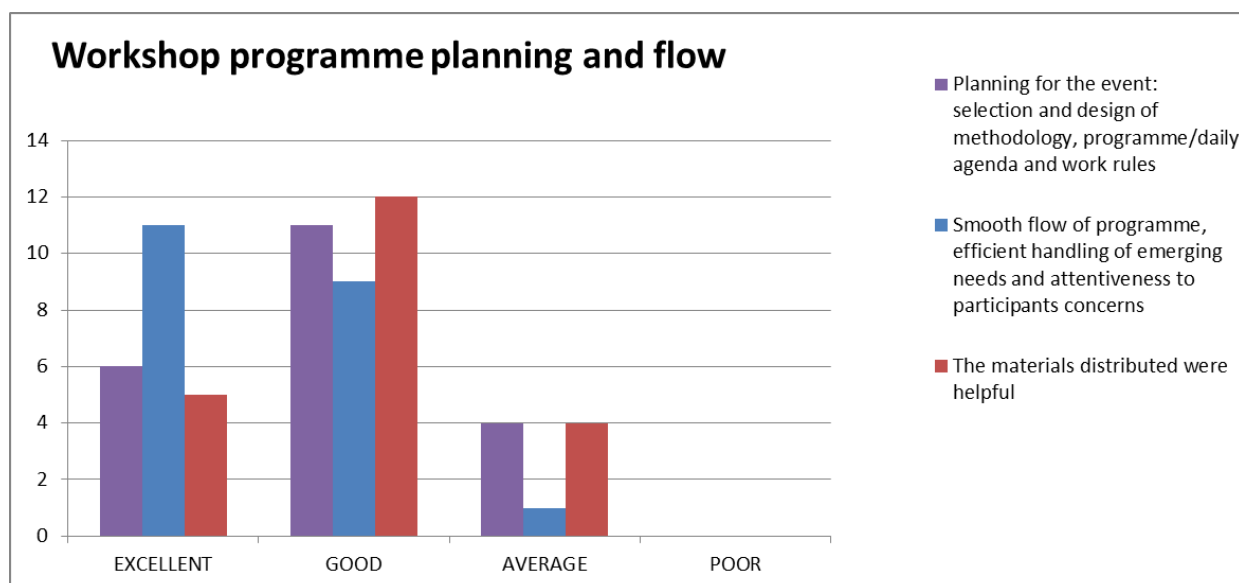


Figure 3: Classification of participants' replies to the indicators reflecting the quality of the workshop logistics/ organizational aspects (part 2)





5. CONCLUSIONS AND RECOMMENDATIONS

Evaluating the results presented in Chapter 3, it is concluded that the expected outcomes of the workshop (as planned in the design phase) have been achieved (refer to Table below).

Table 6: Level of achievement of the expected outcomes of the regional training

| Expected Outcomes as defined prior to the workshop | Have they been achieved? |
|--|--------------------------|
| Establish mutual understanding amongst the participants of terminology related to decentralised water management | YES |
| Introduce the participants to the basic principles of public participation and crucial ingredients for success, including methods / mechanisms for participation in DcWM and key steps involved in planning effective public engagement processes and enhance experience sharing in this regards | YES |
| Introduce the participants to the data requirements for River Basin Management Plan (RBMP) according to the EU WFD in addition to the governance structure necessary to ensure that reliable data is available and accessible for planning, monitoring and assessment. | YES |
| Introduce the concept of groundwater bodies as unit for decentralised water management and protection measures at the local level | YES |

An excellent representation (100%) of PCs in the training was achieved by the SWIM team with a good representation of women participants (39%) from the PCs, and NGOs (from 88% of the PCs). The participants were very active during the interactive sessions, engaging with the topics and their contributions to the discussions were very extensive and valuable.

Regarding the workshop coverage, 38% of the participants reflected that all the topics necessary for a good comprehension of the subject were covered and nothing more was needed, 57% reflected that some additional topics could have been included; while 5% reflected that some topics covered were not necessary. The majority of the participants (81%) found the level of difficulty of the workshop adequate.

Results after the training indicate success in conveying technical information to participants and an improved knowledge on the training topic. The questionnaire collecting information on the changes in awareness, knowledge and skills at participants (Q1) showed an increase in the topic. The largest gain was achieved in the topics of groundwater management (20%) and public / stakeholder participation (13%). Where the gain was lower, the knowledge of participants was already on a high level.



5.1 Recommendations and future steps

The majority of the participants (57%) felt that the workshop length was shorter than required, while another 38% felt it was adequate. The participants also indicated that they were pleased to have interactive sessions, and they suggested to include more of it, more case examples and country presentations as well as to extend the study tour.

The participants indicated that among the most valuable things they learned during the workshop were: Stakeholders participation and awareness (9); Groundwater protection and management (7); Definition, advantages and obstacles of decentralisation process (5). Additionally, they indicated as valuable learning about Austrian Water Management experience (4), WIS in regulations and law (2), Peer-to-peer presentation and exercise (1), Data sharing importance (1), Helpful government (1) and the learning at the study tour (1)

Along the same line, the participants indicated that among the things they liked most in this workshop were the study tour (13) and the interaction (brainstorming) with other participants (5) and presentation & material (4); beside that, groundwater (1), Austrian lessons learned (1) and the people who organised and implemented (1) were indicated.

The participants indicated that they gained good knowledge which can assist them in their future work on the subject, namely in helping to implement DcWM (on local level) (5) and in planning of water (groundwater) resource protection (3). Also found as helpful were (one participant each): decision making strategy, knowledge on WIS implementation, understanding of river basin integration process, the elaboration of management plans (1) and the self-evaluation of country.

Knowledge transfer and propagation are very important aspect of capacity building. The participants indicated that they will transfer the experienced gained during the workshop to their colleagues (with their institution, local and national) in training and meetings (13) and sharing of materials (2).

Future steps:

- The SWIM team, together with the peers from the PCs will continue the peer-to-peer activities of the DcWM.
- The PCs are strongly encouraged to engage in activities with their colleagues to share/ transfer the knowledge they gained during the workshop



6. ANNEXES

6.1 Agenda

Day 1: 16/04/2018

| Item | Time | Description | Speaker |
|------|---------------|---|---|
| | 09:00 – 09:15 | Gathering for study tour at the Hotel Lobby | |
| #1 | 09:15 – 10:00 | Bus travel from Hotel in Vienna to Betriebsgesellschaft Marchfeldkanal | |
| | | Welcome remarks (on the bus) | Suzan Taha (SWIM-H2020 SM Key Water Expert) |
| | | Introduction to the field trip | Mr Arnulf Schönbauer (Non-key Expert, Umweltbundesamt) Ms Peggy Macaigne (Non-key Expert, Umweltbundesamt) |
| #2 | 10:00 – 12:00 | Decentralized bulk water supply for agriculture and groundwater recharge Betriebsgesellschaft Marchfeldkanal http://www.marchfeldkanal.at/home.htm | Mr Wolfgang Neudorfer Betriebsgesellschaft Marchfeldkanal |
| | 12:00 – 13.15 | Lunch break (Tirolerstuben, Deutsch Wagram) | |
| #3 | 13:15 – 14:00 | Travel Marchfeld to Angern Information on site visit | Mr Arnulf Schönbauer (Non-key Expert, Umweltbundesamt) Ms Peggy Macaigne (Non-key Expert, Umweltbundesamt) |
| #4 | 14:00 - 16:00 | Decentralized restoration of surface water quality and flood protection, Angern, Austria http://www.viadonau.org/unternehmen/projektdatenbank/aktiv/life-renaturierung-untere-march-auen/ | Mr Franz Steiner, Via Donau |
| #5 | 16:00 – 17:00 | Travel return to Vienna | |

Day 2: 17/04/2018

| Item | Time | Description | Speaker |
|------|-------------|-------------------------------|---------|
| | 8:30 – 9:00 | Registration on-site training | |



| | | | |
|-----|---------------|---|---|
| # 6 | 9:00 – 09:30 | Opening remarks Presentation of the “Sustainable Water Integrated Management and Horizon 2020 Support Mechanism” project | Suzan Taha (SWIM-H2020 SM Key Water Expert) |
| | | Presentation of the on-site training objectives and agenda | Mr Arnulf Schönbauer (Non-key Expert, Umweltbundesamt) |
| # 7 | 09:30 – 10:00 | Decentralized water management – scale and scope (presentation) | Mr Arnulf Schönbauer (Non-key Expert, Umweltbundesamt) |
| #8 | 10:00 – 10:30 | DcWM - terminology and experiences - <i>Breakout session: “Level of decentralization in the Partner Countries”. Participants brief, discuss and conclude in groups of 8 people</i> | All; facilitators: Arnulf Schönbauer; Eric Mino; Melanie Muro |
| | 10:30 – 10:45 | Coffee Break | |
| # 9 | 10:45 – 12:00 | DcWM - terminology and experiences - <i>Breakout session (45 minutes): “Process of decentralization. Required conditions for and experiences in decentralizing the water sector in the Partner Countries”. Participants brief, discuss and conclude in groups of 8 people</i> | All |
| | | - <i>plenary session (30 Minutes) Rapporteur of the groups brief on the conclusions made in the groups</i> | All |
| | 12:00 – 13:00 | Lunch Break | |
| #10 | 13:00 – 14:45 | Public/stakeholder information, education and participation in decentralized water management – challenges, success factors and practical experiences – PART 1 - <i>Presentation (30 min): “Information, education and participation in decentralised water management: When, why and how?”</i> - <i>Breakout session (45 min): “Experiences with public/stakeholder information, education and participation in decentralised water management” Participants brief, discuss and conclude in two groups.</i> - <i>Plenary session (30 Minutes): Rapporteur of the groups brief on the conclusions made in the groups</i> | Melanie Muro (Non-key Expert, Milieu |
| | 14:45 – 15:00 | Coffee Break | |
| #11 | 16:00 – 17:15 | Public/stakeholder information, education and participation in decentralised water management – challenges, success factors and practical experiences – PART 2 - <i>Breakout session (45 minutes): “Practical experiences with public/stakeholder</i> | Melanie Muro (Non-key Expert, Milieu |



| | | | |
|--|--|---|--|
| | | <p>information, education and participation - How to make it work?". Participants brief, discuss and conclude in two groups.</p> <ul style="list-style-type: none"> - Plenary session (30 Minutes): Rapporteur of the groups brief on the conclusions made in the groups | |
|--|--|---|--|

Day 3: 18/04/2018

| Item | Time | Description | Speaker |
|------|---------------|--|--|
| #12 | 09:00 – 09:30 | Case example: spatial data in the Water Information System for Europe (WISE) platform | Helen Avramidi (Non-key Expert, LDK) |
| #13 | 09:30 – 9:45 | INSPIRE Background and Principles | Ms Gabriele VINCZE, Umweltbundesamt |
| #14 | 09:45 – 10:45 | <p>Mapping of Water Data in River Basin Management (RBM) Planning - Part 1</p> <ul style="list-style-type: none"> - Data management for RBM planning: principles and examples from Algeria and Morocco (30 minutes) - Breakout session (45 minutes): "Mapping data availability and source or proxy in each PC according to the types of data needed for RBMP". Review by country, discuss common issues and conclude in groups of 8 people | Eric Mino (SWIM-H2020 SM Non-key Expert, SEMIDE/EMWIS) |
| | 10:45 – 11:00 | Coffee Break | |
| | 11:00 – 11:30 | <p>Mapping of Water Data in River Basin Management (RBM) Planning - Part 2</p> <p>plenary session (30 Minutes) Rapporteur of the groups brief on the conclusions made in the groups</p> | Eric Mino (SWIM-H2020 SM Non-key Expert, SEMIDE/EMWIS) |
| #15 | 11:30 – 12:30 | <p>Fostering data exchanges for RBM planning</p> <ul style="list-style-type: none"> - Comparison and recommendations for legal and regulatory frameworks (15 minutes) - Breakout sessions (30 minutes): "how to convince politicians and decision makers to set-up and enforce water data exchange and management agreements". Participants brief, discuss and conclude in groups of 8 people - plenary session (15 minutes) Rapporteur of the groups brief on the conclusions made in the groups | Eric Mino (SWIM-H2020 SM Non-key Expert, SEMIDE/EMWIS) |
| | 12:30 – 13:30 | Lunch Break | |
| # 16 | 13:30 – 14:00 | <p>Groundwater Management as management unit for DcWM</p> <ul style="list-style-type: none"> - Presentation (30 minutes) groundwater body delineation and characterization; risk assessment and protection measures | Johannes Grath (SWIM-H2020) |
| #17 | 14:00 – 15:00 | <ul style="list-style-type: none"> - Breakout sessions (30 minutes): "Groundwater bodies as management units in partner countries." Participants brief, discuss and conclude in groups of | All; Facilitator Johannes Grath (Non-Key Expert, Umweltbundesamt) Arnulf Schönbauer (Non-key- |



| | | | |
|-----|----------------------|---|--|
| | | <i>8 people</i> - <i>plenary session (30 Minutes) Rapporteur of the groups brief on the conclusions made in the groups</i> | Expert, Umweltbundesamt) |
| | 15:00 – 15:15 | Coffee Break | |
| #18 | 15:15 – 16:45 | Plenary: the peer-to-peer process - topic, experiences and outlook | Marwan M. Al-Raggad Peers, (Non-key Expert, ACWUA) |
| #19 | 16:45 – 17:00 | Closing of the on – site training including evaluation and photos and distribution of certificates | All |

Day 4: 19/04/2018

| Item | Time | Description | Speaker |
|------|----------------------|--|---|
| | 8:00 – 8:15 | Gathering in the Hotel lobby for the study tour | |
| #20 | 8:15 – 10:30 | Travel Vienna to St. Florian in Upper Austria | Mr Arnulf Schönbauer (Non-key Expert and coordinator) |
| | | Introduction to the field trip - morning part Decentralization of Advisory Service and implementation of measures for the protection of water resources | Mr Arnulf Schönbauer (Non-key Expert and coordinator) Ms Peggy Macaigne (Non-key Expert) |
| #21 | 10:30 – 12:00 | Introduction to “Boden.Wasser.Schutz.Beratung”, Advisory service of the Chamber for Agriculture for Upper Austria https://www.bwsb.at/ | Mr. Sebastian Friedl-Haubner; Boden.Wasser.Schutz.Beratung |
| # 22 | | Good agricultural practice for water protection measures; visit to a farm in Upper Austria | |
| # 23 | | Validation of measures for water protection in agriculture; visit to a test field in Upper Austria | |
| | 12:00 – 12:45 | Travel Vienna to St. Florian - Dingdorf | |
| # 24 | | Introduction to the field trip – afternoon part Decentralization of public water supply and wastewater collection and treatment service | Mr Arnulf Schönbauer (Non-key Expert and coordinator) Ms Peggy Macaigne (Non-key Expert) |
| | 12:45 – 13:45 | Lunch break (Dingdorfer Stube) | |
| # 25 | 13:45 – 15:30 | Water supply cooperative Dingdorf, Upper Austria http://www.ooewasser.at/dingdorf-wasser | Mr. Wolfgang Aichlseder, Federal State Administration Upper Austria Ms Hermine Weselyater Cooperative Dingdorf Mr Laurent Richard; Kooperative Wasser |
| | | Wastewater management cooperative Dingdorf, Upper Austria http://www.ooewasser.at/dingdorf-abwasser | |



| | | | |
|-----|---------------|--|---|
| #26 | 15:30 – 18:00 | Travel from Dingdorf to Vienna | Mr Arnulf Schönbauer (Non-key Expert and coordinator) |
| | | End of study tour; evaluation and photos | All |

6.2 List of Participants



REG-5 / ST-5: Regional on-site training and study tour on “Regulatory and organizational issues of decentralized water management, dealing also with drafting and implementation of management plans at sub-national level”
16-19 April 2018 – Vienna, Austria

| COUNTRY | TYPE OF INSTITUTION (please use the options provided*) | TITLE (Mr/Ms) | FIRST NAME | LAST NAME | POSITION/ FUNCTION | ORGANISATION/ INSTITUTION | EMAIL |
|-----------|---|------------------|-------------|---------------------|---|--|--|
| Maroc | NGO representative | M | Brahim | ABOU EL ABBES | Président | Association Marocaine pour l'Ecotourisme et la Protection de la Nature | b_abouelabbes@yahoo.fr |
| Egypt | NGO representative | Mrs | Heba | AL HARIY | Regional Project Coordinator/ Hydrogeologist | The Arab Water Council | heba.h@arabwatercouncil.org |
| Jordan | NKE | Mr | Marwan | AL-RAGGAD | Senior Peer-to-Peer Coordinator | SWIM and H2020 SM | mar_raggad@yahoo.com |
| Greece | NKE | Mrs | Helen | AVRAMIDI | Junior GIS NKE | SWIM and H2020 SM | eav@ldk.gr |
| Palestine | Ministry representative | Mr | Marwan | BDAIR | Director of the water monitoring quality of service | Palestinian Water Authority | Marwan_bd@yahoo.com, mbdair@pwa.ps |
| Algérie | Ministry representative / Donor agencies | Mme | Elham Naima | CHABOUNI EP BOUANIK | Chef de Bureau des Amenagements Hydrauliques | Ministere des Ressources en eau | hydro_i_chabouni@yahoo.fr, ichabouni@gmail.com |
| Lebanon | Ministry representative | Mrs | Mona | FAKIH | Director of Water | Minsity of Energy and Water, General Directorate of Hydraulic and Electric Resources | monafakih@hotmail.com |
| Palestine | Ministry representative | Mrs | Azhar | GHBEISH | Head of Chemistry section in Water quality department | Palestinian Water Authority | azhar_al_shrif@hotmail.com |
| Maroc | Ministry representative | M | Mustapha | GOUAAMAR | Chef du Service Provincial de l'Eau à Settat | Secrétariat d'Etat Chargée de l'Eau | gouaamar@gmail.com |
| Austria | NKE | Mr | Johannes | GRATH | Senior Groundwater Expert | SWIM and H2020 SM | johannes.grath@umweltbundesamt.at |
| Lebanon | Ministry representative | Mrs | Samar | HIJAZI | Acting head of Water Monitoring Departement | Ministry of Energy and Water | Samar.r.hijazi@gmail.com |
| Tunisie | NGO representative | Mme | Wahiba | HOUJJI | Chargée d'un projet local "AEDS-UICN MED" | Association de l'Environnement et du Développement à Soliman | hibahoujji@gmail.com |
| Algérie | | Mme | Yamina | ILIMI EP BOUZIDA | Chef de service milieu physique | Agence Nationale de la Gestion Integree | Yamina.bouzida@gmail.com |
| Tunisia | Ministry representative | Mrs | Aïda | JRIDI | Sub Director of General Direction of Rural Engineering and Water use | Ministry of Agriculture, Water Resources and Fisheries | Aida_tn@yahoo.fr, aida.jridi77@gmail.com |
| Palestine | Ministry representative | Mr | Abdalnasser | KAHLA | Head of Consumer Affairs section | Palestinian Water Authority | NASSER.KAHLA@YAHOO.COM |
| Tunisie | Ministry representative | M | Ali | KCHOUK | Directeur de la planification hydraulique annuelle du Bureau de la Planification et des Equilibres Hydrauliques | Ministère de l'Agricuture, des ressources hydrauliques et de la pêche | alichouk@gmail.com |
| Egypt | NGO representative | Mr | Yousry | KHAFAGY | Undersecretary - Ministry of Water resources and Irrigation | Egyptian Sustainable Development Forum | yossrykh@hotmail.com, yossryka2003@yahoo.com |
| Austria | NKE | Mrs | Peggy | MACAIGNE | Senior Water Resource Expert NKE | SWIM and H2020 SM | peggy.macaigne@umweltbundesamt.at |
| Maroc | Ministry representative | M | Hicham | MAKLACHE | Administrateur – Direction de la Recherche et la Planification de l'Eau | Secrétariat d'Etat chargé de l'Eau | Hicham.maklache@gmail.com |
| Algeria | NGO representative | Mr | Ahcene | MIMI | Manager in private Environmental sector | Association Ecologique de Boumerdes | ami_risk2002@yahoo.fr |
| France | NKE | Mr | Eric | MINO | Senior Water Data Management Expert | SWIM and H2020 SM | e.mino@semide.org |
| Egypt | Ministry representative | Mr | Ahmed | MOHAMED | Civil Engineer in Water Resources Development Center | Nile Water Sector / Ministry of Water Resources and Irrigation | a.omar5589@gmail.com |
| Egypt | Ministry representative | Mr | Ali | MOHAMED | Head of Water Resources Sector in Upper Egypt | Ministry of Water Resources and Irrigation | irr_2014@yahoo.com |
| Lebanon | Academia and research institutes | Mrs | Nahed | MSAYLEB | Assistant Professor | Lebanese University – Faculty of Agricultural Engineering | nmsayleb@gmail.com |



| COUNTRY | TYPE OF INSTITUTION (please use the options provided*) | TITLE (Mr/Ms) | FIRST NAME | LAST NAME | POSITION/ FUNCTION | ORGANISATION/ INSTITUTION | EMAIL |
|-----------|---|------------------|------------|------------|---|--|---------------------------------------|
| Belgium | NKE | Mrs | Melanie | MURO | Senior Stakeholder Participation Expert | SWIM and H2020 SM | melanie.muro@milieu.be |
| Egypt | Ministry representative | Mr | Ahmed | OSMAN | Senior Hydro -Geologist | Ministry of Water Resources and Irrigation | a_aw_2005@yahoo.com |
| Palestine | NGO representative | Mr | Samhan | SAMHAN | Project Manager/MRQ/M&E | Palestinian Hydrology Group for water and environmental resources management | samhan@phg.org |
| Austria | NKE | Mr | Arnulf | SCHONBAUER | Senior Water and Institution Development Expert & coordinator of activity | SWIM and H2020 SM | Arnulf.Schoenbauer@umweltbundesamt.at |
| Jordan | KE | Mrs | Suzan | TAHA | Key Water Expert | SWIM and H2020 SM | taha@swim-h2020.eu |
| Israel | Government agency | Mr | Adi | TAL | Hydrological Service, Head of hydrogeology unit of the Northern Groundwater Basin | Water Authority | adit20@water.gov.il |
| Jordan | NGO representative | Mr | Amer | TUBEISHAT | Consultant | Land and Human to Advocate Progress | amertub78@gmail.com |
| Greece | NKE | Mr | Demetris | ZARRIS | P2P-8B Focus Group Coach | SWIM and H2020 SM | dez@ldk.gr |



6.3 Q1 – Training Assessment Questionnaire



EVALUATION QUESTIONNAIRE/ QUESTIONNAIRE D'ÉVALUATION

| | | |
|---|---|---|
| Workshop Title/ Intitulé de l'Atelier | SWIM-Horizon 2020 Support Mechanism regional on-site training and study tour on “Regulatory and organizational issues of decentralized water management, dealing also with drafting and implementation of management plans at sub-national level” (REG-5 and ST-5) | |
| Date/ Date | 16-19 April 2018 | |
| Location/ Lieu | Country/ pays | Vienna, Austria |
| | Venue/ Salle de Conférence | Imperial Riding School Renaissance Vienna Hotel |
| Participant Name (optional)/Nom du Participant (facultatif) | | |
| Participant Title/ Position du Participant | | |
| Participant's Country Pays du Participant | | |
| INSTRUCTIONS/ INSTRUCTIONS: Please circle/tick your response to the items. Your feedback is sincerely appreciated. Thank you. / Veuillez encrer/cler/cocher vos choix. Vos commentaires sont les bienvenus. Merci. | | |

**A. ORGANISATIONAL, ADMINISTRATIVE AND PLANNING ISSUES BEFORE AND DURING THE EVENT****A. QUESTIONS ORGANISATIONNELLES, ADMINISTRATIVES ET DE PLANNIFICATION AVANT ET PENDANT L'ATELIER****A.1. Appropriate handling of invitations, visa support, information sharing and smoothing obstacles**☐ Excellent ☐ Good ☐ Average ☐ Poor**A.1. Gestion appropriée des invitations, soutien à l'obtention de visa, diffusion des informations et aide à la résolution des difficultés**☐ Excellent ☐ Bien ☐ Moyen ☐ Mauvais**A.2. Efficient logistics: accommodation, transportation, location of venue and interpretation**☐ Excellent ☐ Good ☐ Average ☐ Poor**A.2. Efficacité de la logistique: hébergement, transport, lieu de réunion et interprétation**☐ Excellent ☐ Bien ☐ Moyen ☐ Mauvais**A.3. Provision of support (if requested) for participants' preparation for the event**☐ Excellent ☐ Good ☐ Average ☐ Poor**A.3. Assistance fournie (si elle a été demandée) pour le travail préparatoire des participants pour l'évènement**☐ Excellent ☐ Bien ☐ Moyen ☐ Mauvais**A.4. Efficient and effective follow-up of preparations and progress towards the event**☐ Excellent ☐ Good ☐ Average ☐ Poor**A.4. Suivi efficace de la préparation et des progrès accomplis pour la tenue de l'évènement**☐ Excellent ☐ Bien ☐ Moyen ☐ Mauvais**A.5. Planning for the event: selection and design of methodology, programme/daily agenda and work rules**☐ Excellent ☐ Good ☐ Average ☐ Poor**A.5. Planification de l'évènement: choix et conception de la méthodologie, programme/ ordre du jour et règles de travail**☐ Excellent ☐ Bien ☐ Moyen ☐ Mauvais**A.6. Smooth flow of programme, efficient handling of emerging needs and attentiveness to participants concerns**☐ Excellent ☐ Good ☐ Average ☐ Poor**A.6. Bon déroulement du programme, gestion efficace des besoins émergents et aide aux participants**☐ Excellent ☐ Bien ☐ Moyen ☐ Mauvais**A.7. Presentations correspond and contribute to the planned objectives and are conducive to enhanced shared understanding and participation on addressed topics**☐ Excellent ☐ Good ☐ Average ☐ Poor**A.7. Les présentations correspondent et contribuent aux objectifs fixés et favorisent la compréhension mutuelle et la participation aux questions abordées**☐ Excellent ☐ Bien ☐ Moyen ☐ Mauvais



| | |
|--|---|
| A.8. Clarity, coverage and sufficiency of concepts, objectives, anticipated outputs and outcomes <input type="checkbox"/> Excellent <input type="checkbox"/> Good <input type="checkbox"/> Average <input type="checkbox"/> Poor | A.8. Clarté, couverture et suffisance des notions, des objectifs, des produits et des résultats attendus <input type="checkbox"/> Excellent <input type="checkbox"/> Bien <input type="checkbox"/> Moyen <input type="checkbox"/> Mauvais |
| A.9. The materials distributed were helpful/ <input type="checkbox"/> Excellent <input type="checkbox"/> Good <input type="checkbox"/> Average <input type="checkbox"/> Poor | A.9. Les matériels distribués ont été utiles <input type="checkbox"/> Excellent <input type="checkbox"/> Bien <input type="checkbox"/> Moyen <input type="checkbox"/> Mauvais |
| A.10. Efficient and Effective Facilitation <input type="checkbox"/> Excellent <input type="checkbox"/> Good <input type="checkbox"/> Average <input type="checkbox"/> Poor | A.10. Modération efficace <input type="checkbox"/> Excellent <input type="checkbox"/> Bien <input type="checkbox"/> Moyen <input type="checkbox"/> Mauvais |
| A.11. Overall rating of the event <input type="checkbox"/> Excellent <input type="checkbox"/> Good <input type="checkbox"/> Average <input type="checkbox"/> Poor | A.11. Evaluation globale de l'évènement <input type="checkbox"/> Excellent <input type="checkbox"/> Bien <input type="checkbox"/> Moyen <input type="checkbox"/> Mauvais |

B. FEEDBACK ON TECHNICAL ASPECTS**B. COMMENTAIRES SUR LES ASPECTS TECHNIQUES**

| | |
|--|--|
| B.1. Coverage of the event In your opinion did the event cover (tick one of the following): <input type="checkbox"/> All the topics necessary for a good comprehension of the subject nothing more <input type="checkbox"/> Some topics covered are not necessary <input type="checkbox"/> Some additional topics should be included | B.1. Couverture de l'évènement A votre opinion l'atelier a traité (cochez une des options suivantes): <input type="checkbox"/> Tous les sujets nécessaires pour la bonne compréhension de la thématique et rien de plus <input type="checkbox"/> Certains sujets traités ne sont pas nécessaires <input type="checkbox"/> Des sujets supplémentaires devraient être inclus |
| B.2. Level of difficulty (tick one of the following): <input type="checkbox"/> Difficult <input type="checkbox"/> Adequate <input type="checkbox"/> Elementary | B.2. Niveau de difficulté (cochez une des options suivantes): <input type="checkbox"/> Difficile <input type="checkbox"/> Adéquat <input type="checkbox"/> Élémentaire |
| B.3. Length of the training In your view the workshop duration (tick one of the following): <input type="checkbox"/> Longer than needed <input type="checkbox"/> Sufficient <input type="checkbox"/> Shorter than required | B.3. Durée de l'atelier de formation A votre avis, la durée de l'atelier était (cochez une des options suivantes): <input type="checkbox"/> Trop long <input type="checkbox"/> Suffisante <input type="checkbox"/> Trop courte |



B.4. What is the most valuable thing you learned during the workshop (knowledge or skills)?

B.4. Quelle est la leçon la plus utile que vous avez-vous apprise pendant l'atelier (connaissances ou compétences)?

B.5. How do you think that the current event will assist you in your future work on the subject?

B.5. Comment pensez-vous que l'atelier de formation peut vous aider dans votre travail futur sur le sujet?

B.6. Please indicate whether (and how) you could transfer part of the experience gained from the event to your colleagues in your country?

B.6. Veuillez indiquer si (et comment) vous pourriez transférer une partie de expérience acquise lors de cet évènement à vos collègues dans votre pays ? (Question ouverte)

B.7. What did you like most about this event?

B.7. Qu'avez-vous le plus apprécié dans cet évènement?

B.7. What needs to be improved?

B.7. Quelles sont les améliorations à apporter aux prochains évènements?:



Kindly note that some of your statements might be included in this activity's press release/

Veillez noter que certaines de vos réponses pourront éventuellement être incluses au communiqué de presse de cette activité.

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SWIM-H2020 SM bénéficie du soutien du projet labélisé UpM BlueGreen et de son réseau



EVALUATION QUESTIONNAIRE/ QUESTIONNAIRE D'ÉVALUATION

| | | |
|---|---|---|
| Workshop Title/ Intitulé de l'Atelier | SWIM-Horizon 2020 Support Mechanism regional on-site training and study tour on “Regulatory and organizational issues of decentralized water management, dealing also with drafting and implementation of management plans at sub-national level” (REG-5 and ST-5) | |
| Date/ Date | 16-19 April 2018 | |
| Location/ Lieu | Country/ pays | Vienna, Austria |
| | Venue/ Salle de Conférence | Imperial Riding School Renaissance Vienna Hotel |
| Participant Name (optional)/Nom du Participant (facultatif) | | |
| Participant Title/ Position du Participant | | |
| Participant's Country Pays du Participant | | |
| INSTRUCTIONS/ INSTRUCTIONS: Please circle/tick your response to the items. Your feedback is sincerely appreciated. Thank you. / Veuillez encrer/cler/cocher vos choix. Vos commentaires sont les bienvenus. Merci. | | |

**A. ORGANISATIONAL, ADMINISTRATIVE AND PLANNING ISSUES BEFORE AND DURING THE EVENT****A. QUESTIONS ORGANISATIONNELLES, ADMINISTRATIVES ET DE PLANNIFICATION AVANT ET PENDANT L'ATELIER****A.1. Appropriate handling of invitations, visa support, information sharing and smoothing obstacles**☐ Excellent ☐ Good ☐ Average ☐ Poor**A.1. Gestion appropriée des invitations, soutien à l'obtention de visa, diffusion des informations et aide à la résolution des difficultés**☐ Excellent ☐ Bien ☐ Moyen ☐ Mauvais**A.2. Efficient logistics: accommodation, transportation, location of venue and interpretation**☐ Excellent ☐ Good ☐ Average ☐ Poor**A.2. Efficacité de la logistique: hébergement, transport, lieu de réunion et interprétation**☐ Excellent ☐ Bien ☐ Moyen ☐ Mauvais**A.3. Provision of support (if requested) for participants' preparation for the event**☐ Excellent ☐ Good ☐ Average ☐ Poor**A.3. Assistance fournie (si elle a été demandée) pour le travail préparatoire des participants pour l'évènement**☐ Excellent ☐ Bien ☐ Moyen ☐ Mauvais**A.4. Efficient and effective follow-up of preparations and progress towards the event**☐ Excellent ☐ Good ☐ Average ☐ Poor**A.4. Suivi efficace de la préparation et des progrès accomplis pour la tenue de l'évènement**☐ Excellent ☐ Bien ☐ Moyen ☐ Mauvais**A.5. Planning for the event: selection and design of methodology, programme/daily agenda and work rules**☐ Excellent ☐ Good ☐ Average ☐ Poor**A.5. Planification de l'évènement: choix et conception de la méthodologie, programme/ ordre du jour et règles de travail**☐ Excellent ☐ Bien ☐ Moyen ☐ Mauvais**A.6. Smooth flow of programme, efficient handling of emerging needs and attentiveness to participants concerns**☐ Excellent ☐ Good ☐ Average ☐ Poor**A.6. Bon déroulement du programme, gestion efficace des besoins émergents et aide aux participants**☐ Excellent ☐ Bien ☐ Moyen ☐ Mauvais**A.7. Presentations correspond and contribute to the planned objectives and are conducive to enhanced shared understanding and participation on addressed topics**☐ Excellent ☐ Good ☐ Average ☐ Poor**A.7. Les présentations correspondent et contribuent aux objectifs fixés et favorisent la compréhension mutuelle et la participation aux questions abordées**☐ Excellent ☐ Bien ☐ Moyen ☐ Mauvais



| | |
|--|---|
| A.8. Clarity, coverage and sufficiency of concepts, objectives, anticipated outputs and outcomes <input type="checkbox"/> Excellent <input type="checkbox"/> Good <input type="checkbox"/> Average <input type="checkbox"/> Poor | A.8. Clarté, couverture et suffisance des notions, des objectifs, des produits et des résultats attendus <input type="checkbox"/> Excellent <input type="checkbox"/> Bien <input type="checkbox"/> Moyen <input type="checkbox"/> Mauvais |
| A.9. The materials distributed were helpful/ <input type="checkbox"/> Excellent <input type="checkbox"/> Good <input type="checkbox"/> Average <input type="checkbox"/> Poor | A.9. Les matériels distribués ont été utiles <input type="checkbox"/> Excellent <input type="checkbox"/> Bien <input type="checkbox"/> Moyen <input type="checkbox"/> Mauvais |
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| A.11. Overall rating of the event <input type="checkbox"/> Excellent <input type="checkbox"/> Good <input type="checkbox"/> Average <input type="checkbox"/> Poor | A.11. Evaluation globale de l'évènement <input type="checkbox"/> Excellent <input type="checkbox"/> Bien <input type="checkbox"/> Moyen <input type="checkbox"/> Mauvais |

B. FEEDBACK ON TECHNICAL ASPECTS**B. COMMENTAIRES SUR LES ASPECTS TECHNIQUES**

| | |
|--|--|
| B.1. Coverage of the event In your opinion did the event cover (tick one of the following): <input type="checkbox"/> All the topics necessary for a good comprehension of the subject nothing more <input type="checkbox"/> Some topics covered are not necessary <input type="checkbox"/> Some additional topics should be included | B.1. Couverture de l'évènement A votre opinion l'atelier a traité (cochez une des options suivantes): <input type="checkbox"/> Tous les sujets nécessaires pour la bonne compréhension de la thématique et rien de plus <input type="checkbox"/> Certains sujets traités ne sont pas nécessaires <input type="checkbox"/> Des sujets supplémentaires devraient être inclus |
| B.2. Level of difficulty (tick one of the following): <input type="checkbox"/> Difficult <input type="checkbox"/> Adequate <input type="checkbox"/> Elementary | B.2. Niveau de difficulté (cochez une des options suivantes): <input type="checkbox"/> Difficile <input type="checkbox"/> Adéquat <input type="checkbox"/> Élémentaire |
| B.3. Length of the training In your view the workshop duration (tick one of the following): <input type="checkbox"/> Longer than needed <input type="checkbox"/> Sufficient <input type="checkbox"/> Shorter than required | B.3. Durée de l'atelier de formation A votre avis, la durée de l'atelier était (cochez une des options suivantes): <input type="checkbox"/> Trop long <input type="checkbox"/> Suffisante <input type="checkbox"/> Trop courte |



B.4. What is the most valuable thing you learned during the workshop (knowledge or skills)?

B.4. Quelle est la leçon la plus utile que vous avez-vous apprise pendant l'atelier (connaissances ou compétences)?

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6.4 Q2 – Evaluation Questionnaire



TRAINING ASSESSMENT QUESTIONNAIRE

| | |
|-----------------------------|--|
| Workshop Title | SWIM-Horizon 2020 Support Mechanism REG-5: 2st Regional on-site training on Decentralized Water Management |
| Date | 17 th -18 th April 2018 |
| Venue Location | Vienna, Austria |
| Participant Name | |
| Participant Title/ Position | |
| Participant Country | |

INSTRUCTIONS/ INSTRUCTIONS:

Please respond to the questions below. Your feedback is sincerely appreciated. Thank you.



1. What could be an aspect in the decentralization process (3 out of the 4 is the correct answer)

- ☒ a process of redistributing authority and responsibility for providing public services from the central or national level of government to a sub-national and/or local level
- ☒ decentralization of government expenditure and revenue-raising authority to sub-national government structures in line with their allocated functional responsibilities
- ☐ a process which strengthened the competence of the ministry and supports the development of the capital city
- ☒ a process whereby the voice of citizens is integrated into policy decisions at a sub-national level and civil society can hold the associated authorities and officials accountable

2. WFD and its link to the national governance (1 out of the 2 is the correct answer)

- ☒ WFD is setting the frame for the EU water policy and is guiding through the process
- ☐ WFD is strictly regulating details at local level and does not allow for any flexibility at Member State level

3. What are relevant criteria for the delineation of groundwater bodies of the following are among the objectives of the EU Water Framework Directive (WFD)? (3 out of 4 is the correct answer)

- ☒ Geological and hydrogeological boundaries
- ☒ Vulnerability maps, risk potential
- ☐ Feasibility of accurate status assessment
- ☒ Local and regional administrative boundaries

4. What is the basic unit for groundwater management according to the WFD (1 out of 3 is the correct answer)

- ☒ the groundwater body
- ☐ the political district
- ☐ the abstraction well

5. What are the benefits of public participation (4 out of 6)

- ☒ more informed and transparent decision-making;
- ☒ conflict prevention by development of consensus and information sharing;
- ☒ identification of more appropriate solutions;
- ☐ reduction of the work load of the responsible authorities since they can rely on the public to gather and provide additional information;
- ☒ help in the implementation of otherwise unpopular decisions;
- ☐ identification of better solutions.



6. List 5 factors for successful stakeholder/public participation in decentralised water management

Possible answers

- *Changes in procedures;*
- *Political commitment and resources;*
- *building and information of public/stakeholders;*
- *Demonstration objects;*
- *Roles of all actors involved are clear;*
- *Cooperative attitudes and trust;*
- *Transparency, openness, information-sharing;*
- *All relevant interest are included/represented;*
- *Tailored process design/arrangements: Participation methods are appropriate to meet participation objectives.*

7. River Basin Management Plan requires data on (5 out of the 6 answers are correct):

- ☒ Water tariffs
- ☒ Water resources quality
- ☒ Waste water discharge
- ☒ Water infrastructures
- ☐ Energy production
- ☒ Population growth

8. Data sharing agreement or regulation should include (4 out of the 5 answers are correct):

- ☒ Description of objectives
- ☒ Role of institutions
- ☐ Cost of data
- ☒ Public access to data
- ☒ List of data sets provided by each institution

THANK YOU!



6.5 Photo gallery









