

REPORT ON IMPLEMENTED TRAININGS FOR PROFESSIONALS IN THE WATER SECTOR

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University of Nis



Strengthening of master curricula in water resources management
for the Western Balkans HEIs and stakeholders

PROJECT INFO

Project title	Strengthening of master curricula in water resources management for the Western Balkans HEIs and stakeholders
Project acronym	SWARM
Project reference number	597888-EPP-1-2018-1-RS-EPPKA2-CBHE-JP
Funding scheme	Erasmus+ Capacity building in the field of higher education
Web address	www.swarm.ni.ac.rs
Coordination institution	University of Nis
Project duration	15 November 2018 – 14 November 2021

DOCUMENT CONTROL SHEET

Work package	WP4 Implementation of developed master curricula and trainings
Ref. no and title of activity	A4.2 Implementation of trainings for professionals in the water sector
Title of deliverable	Report on implemented trainings for professionals in the water sector
Lead institution	NMBU
Author(s)	Milan Gocić, Zakhar Maletskyi
Document status	Final
Document version and date	v01, 14 July 2021
Dissemination level	Public

VERSIONING AND CONTRIBUTION HISTORY

Version	Date	Revision description	Partner responsible
v.01	14 July 2021	Final Report	UNI, NMBU

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List of abbreviations

AASKM	Academy of Applied Studies of Kosovo and Metohija
AUTH	Aristotle University of Thessaloniki
BOKU	University of Natural Resources and Life Sciences, Vienna
CBHE	Capacity Building in Higher Education
EACEA	Education, Audiovisual and Culture Executive Agency
HEI	Higher Education Institution
LLL	Life Long Learning
NMBU	Norwegian University of Life Sciences, Norway
PWMC VV	Public Water Management Company "Vode Vojvodine"
SWARM	Strengthening of master curricula in water resources management for the Western Balkans HEIs and stakeholders
UACEG	University of Architecture, Civil Engineering and Geodesy, Bulgaria
UNI	University of Nis, Serbia
UL	University of Lisbon, Portugal
UoM	University of Montenegro
UNIRIFCE	University of Rijeka, Croatia
UNMO	Dzemal Bijedic University of Mostar
UNS	University of Novi Sad
UNSA	University of Sarajevo
UPKM	University of Pristina in Kosovska Mitrovica
WRM	Water Resources Management

1 Introduction

Report on implemented trainings is a part of the work package (WP) 4 “Implementation of developed master curricula and trainings” and activity 4.2 “Implementation of the trainings for professionals in the water sector” of the Erasmus+ Capacity Building in the Field of Higher Education project „Strengthening of master curricula in water resources management for the Western Balkans HEIs and stakeholders“ (SWARM, www.swarm.ni.ac.rs).

For the purpose of successful organization of trainings the handbook in mother tongue was written and also translated into English and checked by the Quality Assurance Committee (QAC) team and reviewed internal by the members of programme partner higher education institutions (HEIs), plans for trainings and also description were written and sent to the possible participants via post or e-mail, certificates as a proof of attendance to these trainings were designed and printed. Promotional activities at all Western Balkans (WB) HEIs i.e. roundtables were organized in line with the dissemination strategy presented in the Dissemination and Exploitation Plan developed under WP6 Dissemination and exploitation. Responsible persons from different institutions in the field of water resources management were contacted using the created register of companies in the field of WRM in the WB created under activity 3.2 “Analyse of water sector needs for LLL courses in WB”.

Three trainings (one online and two face-to-face) were organized by the WB project partners i.e.

- The first training was organised online by the WB project partners (UNI, UNS, UNSA, UoM, UNMO, PWMC VV) on 8-10 June 2021.
- The second training was organised in person by the AASKM on 28-30 June 2021.
- The third training was organized in person by the UPKM on 29 June-1 July 2021.

The goal of the trainings is to educate professionals in the water sector about innovative approaches and solutions that can be applied in this domain.

All presented materials, agendas, photos and videos are freely available at the SWARM website (<http://www.swarm.ni.ac.rs/activities?id=75>).

2 Implemented trainings

Training description

Water resource management – is one of the biggest challenges of the 21st century. Water management today is faced with new challenges such as climate change or the effects of human activity. Public and private stakeholders who are active in this field must develop new ways to better manage the water cycle as a whole.

The participants of the training will be introduced to the water resources management. The training can serve anyone interested in the water sector as a basis for obtaining up-to-date information on legal frameworks, technical and technological processes, IT tools, adaptation to climate change, limited availability of water resources, management of atmospheric water quality, how to use of recycled water, management flood and drought risk as well as innovative techniques in water resource management.

Being trained in sustainable water resource management will teach participants the most advanced tools and techniques available in sustainable water resource management (WRM), and will instruct participants on how to use them.

By applying the acquired knowledge, tools and practical solutions to participants' local contexts participant will be able to assess and understand how and why sustainable WRM is an appropriate solution for the water sector.

Objectives and outcomes of training

The main objective of this training is to develop an understanding of the problems related to water resources management and to enhance your ability to undertake WRM with special reference to catchment (watershed, river basin) management and ecosystems. Firstly, this training will define a resource and, more specifically, the resource of water. It will look at how water is used and the activities associated with it as well as any potential conflicts. The training will look at water resources management in detail through the analysis of the different types of rights and obligations associated with, for example, the development of a multi-sectorial regulation system or a watershed management approach.

By the end of this training, our aim is to enable participants to:

- 1) Identify the main issues and strategies linked to water resource management
- 2) Acquire the key reading material needed to understand the many variables (environmental, institutional and political) which affect water and which, in terms of management, may require adjustment.

During the training participants will learn about

- Water as a scarce resource,
- EU water policy under the Water Framework Directive,
- Water management and climate change adaptation,
- Wastewater treatment and reuse of treated wastewater,
- Flood and drought risk management,

- IT tools in the water resources management,
- Innovation in the water sector.

Target group and prerequisites

The following target groups was part of the trainings:

- Consultants, engineers and experts working or looking to work in the water sector
- Water resource professionals including water managers, water resource engineers, hydrologists, hydro-geologists and water resource modelers
- Representatives from municipalities, councils and other government organisations
- Representatives from nonprofit, civil society, community-based organisations
- Programme and project managers, administrators, coordinators and other professionals who work on water-related or community-based projects
- Those who work or wish to get involved in addressing the growing water challenge

2.1 First training

The first training was held online from 8 to 10 June 2021 in coordination of the following WB partners: University of Nis (UNI), University of Novi Sad (UNS), University of Montenegro (UoM), University of Sarajevo (UNSA), Dzemal Bijedic University of Mostar (UNMO) and Public Water Management Company “Vode Vojvodine” (PWMC VV). The training was technically supported by the staff of the Dzemal Bijedic University of Mostar whose Microsoft Teams platform was used.

According to the previous adopted agenda, 14 panelists presented materials related to the water resources management and their experience in this field. It should be highlighted that the representatives from the Ministry of Foreign Trade and Economic Relations of Bosnia and Herzegovina and Public Water Management Company “Vode Vojvodine” took part and presented their materials i.e. the connection was made between academia, policy makers and business sector.

In total, 174 participants attended the training from the Western Balkan region (118 from the non-academic sector and 56 from the academic sector) from 8th to 10th June 2021 or 85.71% of a total number of registered participants. In percentage, 68% of participants were from the water sector, while 32% of participants were from the academic sector (Fig. 1).

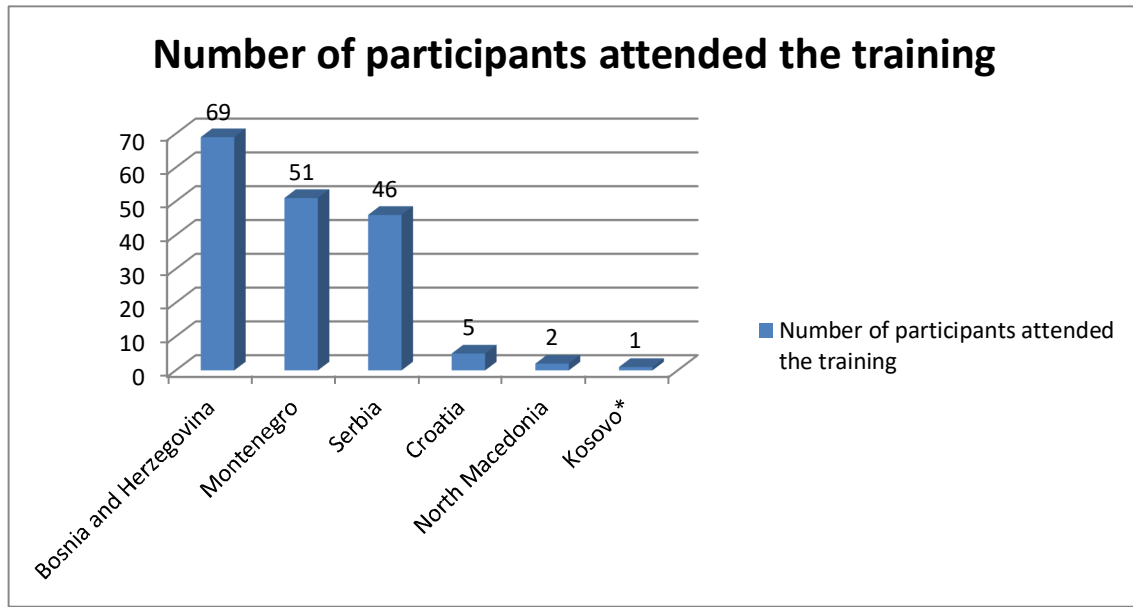


Figure 1. Number of participants attended the training

In Fig. 2 the percentage distribution of participants per country was presented. It can be seen that the largest number of participants was from Bosnia and Herzegovina (40%) then from Montenegro (29%) and Serbia (26%).

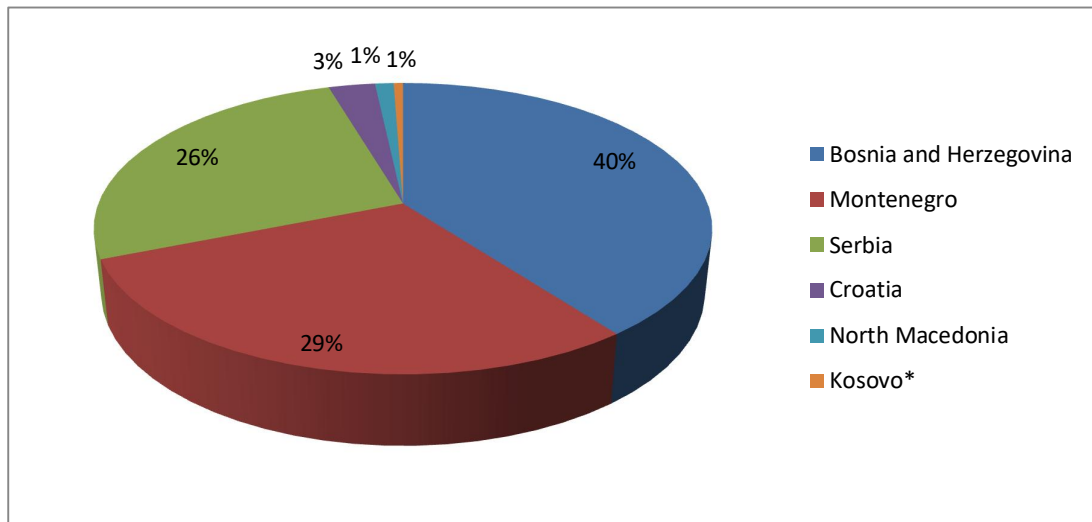


Figure 2. Percentage distribution of participants per country

The participants were both from academic and business sector:

The academic sector:

- Akademija tehničko - vaspitačkih strukovnih studija
- University of Montenegro, Faculty of Civil Engineering
- University of Novi Sad, faculty of Technical Sciences
- University of Nis, Faculty of Civil Engineering and Architecture
- Dzemal Bijedic University of Mostar, Faculty of Civil Engineering

- University of Sarajevo, Faculty of Civil Engineering
- University of Sarajevo, Faculty of Agricultur
- Gradezen Institut Makedonija AD Skopje
- Gradezen fakultet Skopje
- Institut za vodoprivredu "Jaroslav Černi" AD, Beograd
- IPSA Institut
- Knjaževačka gimnazija
- University of Rijeka, Faculty of Civil Engineering

The non-academic sector (water related sector):

- Vodovod i kanalizacija DOO Podgorica
- Alfahidroterm
- Greenbuilding Cluster
- Vodovod i kanalizacija DOO Danilovgrad
- Vodovod i kanalizacija DOO Bar
- E3 Consulting Podgorica
- Municipality of Mostar
- Public Water Management Company "Vode Vojvodine"
- Ministry of Foreign Trade and Economic Relations of Bosnia and Herzegovina
- Ministry of environment, Republic of Serbia
- Hidro - Konsult Skopje, Macedonia
- Hydro Control d.o.o
- ING-INVEST d.o.o.
- Javna Ustanova Zavod za javno zdravstvo Kantona Sarajevo
- Javna ustanova "Vode Srpske" Bijeljina
- JKP "Vodovod i kanalizacija" Subotica, Srbija
- JKP "Naissus" Niš
- JKP "Standard" Knjaževac
- JVP "SRBIJAVODE" BEOGRAD VPC "MORAVA" NIŠ
- Kanton Sarajevo-Ministarstvo privrede
- KJKP Vodovod i kanalizacija d.o.o. Sarajevo
- MONCORE DOO, Podgorica
- Nik Com d.o.o. Nikšić
- Municipality of Irig
- Municipality of Leposavić
- Municipality of Pljevlja
- Opštinsko veće Opštine Ub
- Phyto - BiH project
- Pizzarotti Montenegro & C. S.p.A.
- Pokrajinski sekretarijat za regionalni razvoj, medjuregionalna saradnja i lokalna samouprava
- Procon doo Podgorica
- Regulatorna agencija za energetiku i regulisane komunalne djelatnosti
- Republic Hydrometeorologica Service of Serbia
- Saraj inženjerig d.o.o. Sarajevo
- SENDO doo Sarajevo - preduzeće za projektovanje, inženjering, konsalting i izgradnju
- UNDP BiH
- Unioninvest dd Sarajevo
- Vigoris Ecotech DOO

- VIK Podgorica
- Vodacom
- "Vodovod" a.d. BANJA LUKA
- Vodovod i kanalizacija Kotor
- Vodovod Mostar
- Zavod za vodoprivredu Bijeljina
- Zavod za vodoprivredu d.d. Sarajevo

For the certification of participants' attendance, the certificate was created. In total, 141 participants were certified having in mind their attendance at the on-line training (minimum two days' attendance at the training) or 80.46% of the total number of participants or 68.96% of the total number of registered participants (Fig. 3).

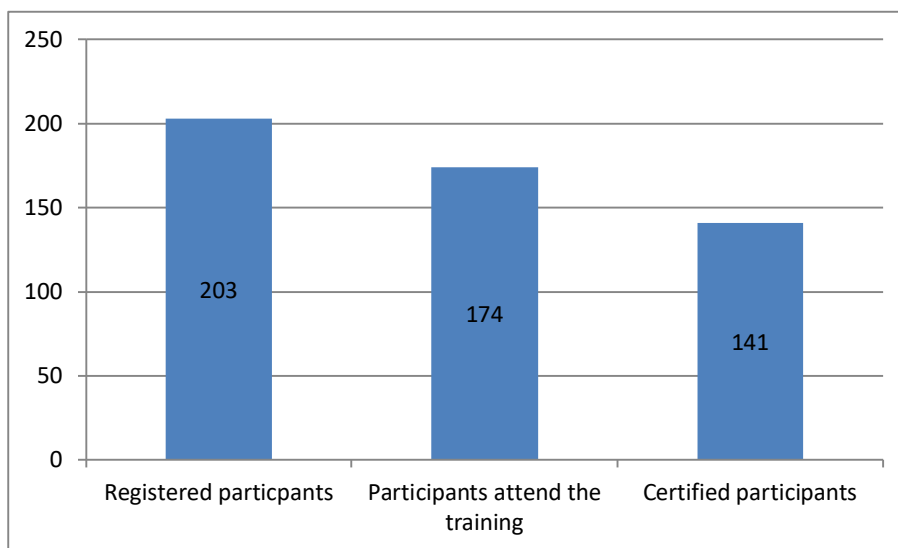


Figure 3. Comparative analysis of participants per different activities

All produced materials are freely available at the SWARM website <http://www.swarm.ni.ac.rs/activities?id=75>. Recordings are available at the SWARM YouTube channel:

First day

<https://youtu.be/tPymUu1t1Dg>

<https://youtu.be/e27lREo3Ljc>

Second day

<https://youtu.be/OPQYncfTBnw>

<https://youtu.be/xA3yLrMcF04>

Third day

https://youtu.be/ITGUTHt_FM

The Moodle platform is used for the created LLL courses. The link is <http://gf94.gaf.ni.ac.rs/>

Agenda

Tuesday, 8 th June 2021		
On-line training		
Moderator: Ammar Šarić , University of Sarajevo		
09:00-09:30	Introduction to SWARM project	Milan Gocić , University of Nis
09:30-10:30	EU water policy under the Water Framework Directive	Slaviša Trajković , University of Nis
10:30-11:30	Water management and climate change adaptation	Emina Hadžić, Suvada Šuvalija, Hata Milišić, Suada Sulejmanović, Ammar Šarić , University of Sarajevo
11:30-11:45	Break	
11:45-12:45	Water – scarce resource	Milan Gocić , University of Nis
12:45-13:45	Flood and drought risk management	Mladen Milanović , University of Nis
13:45-14:30	General discussion and conclusion remarks	Ammar Šarić , University of Sarajevo

Wednesday, 9 th June 2021		
On-line training		
Moderator: Milan Gocić , University of Nis		
09:00-10:00	Wastewater treatment and reuse of treated wastewater	Srđan Kovačević , University of Novi Sad
10:00-11:00	Leakage in water supply systems	Ivana Ćipranić , University of Montenegro
11:15-11:30	Break	
11:30-12:30	IT tools in the water resources management	Suada Sulejmanović, Emina Hadžić, Ammar Šarić , University of Sarajevo
12:30-13:30	Model of managing of a process of water supply network repairing by using fuzzy logic and fuzzy inference	Suad Špago, Merima Šahinagić-Isović , Dzemal Bijedic University of Mostar
13:30-14:00	General discussion and conclusion remarks	Milan Gocić , University of Nis

Thursday, 10 th June 2021		
On-line training		
Moderator: Mili Selimotić , Dzemal Bijedic University of Mostar		
09:00-10:00	Stormwater quality management	Goran Sekulić , University of Montenegro
10:00-11:00	Possibilities of application of new technologies in flood management on lowland rivers	Slobodan Kolaković , University of Novi Sad
11:00-11:15	Break	
11:15-11:30	Water pollution and their causes	Dalila Ivanković, Mili Selimotić, Marko Ćećez , Dzemal Bijedic University of Mostar
11:30-12:00	Methods of rational water management planning	Ratko Bajčetić , Public Water Management Company "Vode

		Vojvodine”
12:00-12:30	Water management in Serbia	Olivera Gavrilović, Jelena Vojvodić , Public Water Management Company “Vode Vojvodine”
12:30-13:00	Water management in Bosnia and Herzegovina	Enes Šeperović , Ministry of Foreign Trade and Economic Relations of Bosnia and Herzegovina
13:00-13:30	General discussion and conclusion remarks	Mili Selimotić , Dzemal Bijedic University of Mostar

2.2 Second training

The second training was organized in the premises of AASKM in Leposavic from 28th to 30th June 2021. In total, 38 participants took part in the training.

The participants were from the local companies, STO, Fire department, Public Utility Company, Leposavic Municipality, etc.

The following topics were presented:

- EU Water Policy - Objectives and goals
- Water and climate change – policy framework
- Impact of the urbanisation on use and water management
- Flood risk management, adaptation and climate changes and disasters risk mitigation
- Challenges of water scarcity and drought
- Advanced wastewater treatment and reuse of water
- EU regulation on wastewater treatment
- EU best practices on wastewater treatment: Examples from EU countries and their experiences
- Possibility of forming wastewater plants in Kosovo*
- Possible application of EU directives in Kosovo*scenario
- Water resources in the Western Balkan, Europe and the world
- Unsafe water, sanitation and hygiene
- Use of IT tools in the water resource management

- Barriers and challenges for innovation in the water sector
- Examples of innovation in the water sector

The general organization of the training was evaluated by the majority of participants as very good. The relevance of the topic was for 100% of participants excellent as well as the Usefulness of the acquired knowledge. The methodology of working with participants for 7.89% of participants was very good while 92,11% thinks it was excellent. Prepared training materials was rated as very good by 97.37% participants, while 100% stated that the organization was excellent, and the same for working conditions. Interactivity of the training was very good for 5.26% of participants, and excellent for 94.74%. Transferability of acquired knowledge was excellent for 89.47%, the other 10.53% think it is very good. Satisfaction of participation in training was for 97.37% of participants excellent. 100% of participants stated that their satisfaction regarding the training was met.



Agenda

Monday, 28 th June 2021		
TCASU premises, 24 November Street Leposavic		
09:00-09:30	Participant registration	
First session – Introduction to the EU water policy under the Water Framework Directive		
09:30-10:30	Introduction to the SWARM project	Jelena Rajović
10:30-12:30	<ul style="list-style-type: none"> - EU Water Policy - Objectives and goals; - Integration of all EU water legislation under a single framework; - Implementation of Directives: experiences and best practices; 	Predrag Stanojević
12:30-13:00	Coffee break	
Second session – Water management and climate change adaptation		
13:00-15:30	<ul style="list-style-type: none"> - Water and climate change – policy framework - Climate Change and the European Water Dimension - Climate change and impacts on water - Contributing to better water management: Experiences from case studies across Europe 	Mirjana Galjak
Third session – Water and limited resources		
15:30-16:30	<ul style="list-style-type: none"> - Water resources in the world, with the emphasize on the Western Balkan - Water demands - Impact of the urbanisation on use and water management - Water resources management 	Milan Mišić
16:30-17:00	Conclusions of the day	

Tuesday, 29 th June 2021		
TCASU premises, 24 November Street Leposavic		
09:00-09:30	Participant registration	
Fourth session – Drought and flood risk management		
09:30-12:30	<ul style="list-style-type: none"> - EU polices on flood management - Flood risk management, adaptation and climate changes and disasters risk mitigation - Challenges of water scarcity and drought - Good practices: examples of EU practices in prevention and management of drought and floods - Possible application of EU directives in Kosovo* scenario 	Predrag Stanojević
12:30-13:00	Coffee break	
Fifth session – Management of precipitation water		
13:00-14:00	<ul style="list-style-type: none"> - Issues related to precipitation waters - Treatments of precipitation waters - Methods for control of the quantity and quality of precipitation 	Milan Mišić
Sixth session – Wastewater treatment and reuse of treated wastewater		
14:00-16:30	<ul style="list-style-type: none"> - Introduction to the wastewater systems - Processes and treatments of the wastewater - Advanced wastewater treatment and reuse of water - EU regulation on wastewater treatment - EU best practices on wastewater treatment: Examples from EU countries and their experiences - Possibility of forming wastewater plants in Kosovo* 	Mirjana Galjak Jelena Rajović
16:30-17:00	Conclusions of the day	

Wednesday, 30 th June 2021		
TCASU premises, 24 November Street Leposavic		
09:00-09:30	Participant registration	
Seventh session – Water-scarce resource		
09:30-12:00	<ul style="list-style-type: none"> - Water resources in the Western Balkan, Europe and the world - Freshwater availability - Impact of urbanization on water use and management - Unsafe water, sanitation and hygiene 	Milan Mišić
12:30-13:00	Coffee break	
Eight session – IT tools in the water resources management		
13:00-15:30	<ul style="list-style-type: none"> - Use of IT tools in the water resource management- selected programmes: HEC-SSP, HEC-HMS, HEC-RAS, HEC-WAT, Hydrus, Epanet - Good practices and learned lessons in managing water resources 	Predrag Stanojević
Ninth session – Innovation in the water sector		
15:30-16:30	<ul style="list-style-type: none"> - Innovation in water policy and governance - European Innovation Partnership on Water - Barriers and challenges for innovation in the water sector - Examples of innovation in the water sector 	Jelena Rajović
16:30-17:00	General discussion and conclusions of the training	

2.3 Third training

The third training was organized in the premises of UPKM in Kosovska Mitrovica from 29th June to 1st July 2021. In total, 32 participants took part in the training.

The participants were from Municipalities, Departments for Environment, water and forestry, Local Water companies, Units for emergence situations, Trepca company, Public utility companies.

The participants of the training are introduced to the water resources management. The training can serve anyone interested in the water sector as a basis for obtaining up-to-date information on legal frameworks, technical and technological processes, IT tools, adaptation to climate change, limited availability of water resources, management of atmospheric water quality, how to use of

recycled water, management flood and drought risk as well as innovative techniques in water resource management.

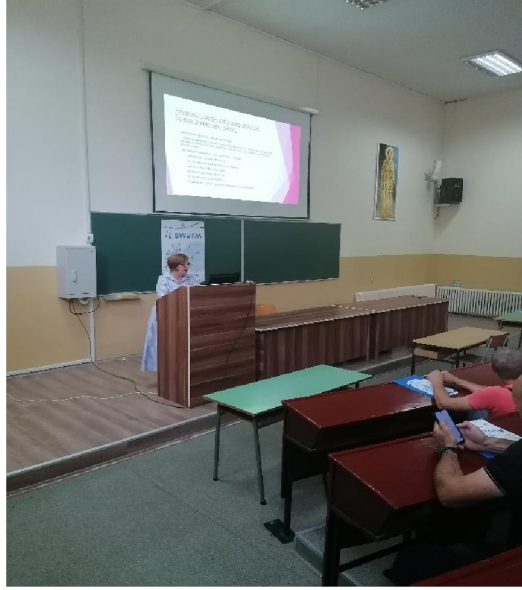
By applying the acquired knowledge, tools and practical solutions to participants' local contexts participant will be able to assess and understand how and why sustainable WRM is an appropriate solution for water sector.

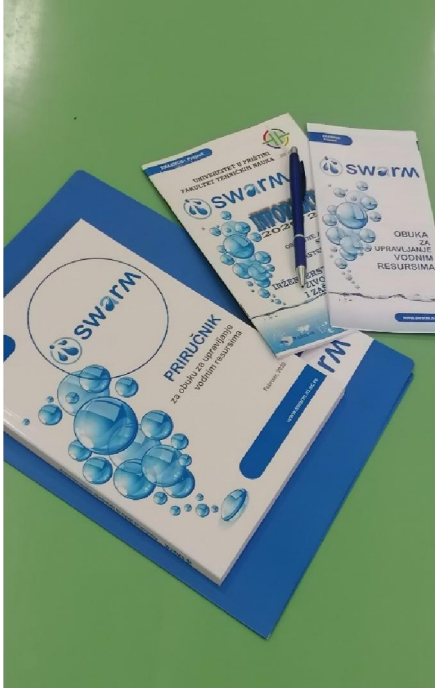
At the end of the training the participants were able to identify the main issues and strategies linked to the water resources and to be able to use different reading material for the further development.

The following topics were presented:

- Water – scarce resource
- Water management and climate change adaptation
- Wastewater treatment and reuse of treated wastewater
- IT tools in the water resources management
- EU water policy under the Water Framework Directive
- Flood and drought risk management
- Innovation in the water sector







Agenda

Tuesday, 29 th June 2021		
University of Pristina in Kosovska Mitrovica, Faculty of Technical Sciences, Knjaza Milosa 7		
08:30-09:00	Participant registration	
09:00-09:15	Welcome speeches	Prof. Dr. Nebojsa Arsic, FTS Dean Prof. Dr. Srdjan Jovic, FTS Vice dean
09:15-09:30	Presentation of the SWARM project	Dr. Aleksandra Petrovic, UPKM
09:30-10:00	Coffee break	
Module 1 Water-scarce resource		
10:00-13:00	<ul style="list-style-type: none"> ▪ Water resources in the Western Balkan, Europe and the world ▪ Freshwater availability ▪ Impact of urbanization on water use and management ▪ Unsafe water, sanitation and hygiene 	Prof. Dr. Gordana Milentijevic, UPKM
13:00-14:00	Lunch break	
Module 2 Water management and climate change adaptation		
14:00-17:00	<ul style="list-style-type: none"> ▪ Water and climate change – policy framework ▪ Climate Change and the European Water Dimension ▪ Climate change and impacts on water ▪ Contributing to better water management: Experiences from case studies across Europe 	Prof. Dr. Jelena Djokic, UPKM
17:00-17:30	General discussion and conclusions of the day	

Wednesday, 30 th June 2021		
University of Pristina in Kosovska Mitrovica, Faculty of Technical Sciences, Knjaza Milosa 7		
08:30-09:00	Participant registration	
Module 3 Wastewater treatment and reuse of treated wastewater		
09:00-11:00	<ul style="list-style-type: none"> • Treatment of Urban Waste Water Directive and EU legislation related to water reuse • Standards for the quality of reused treated wastewater • Potential sources and uses for reuse of treated wastewater 	Prof. Dr. Natasa Elezovic, UPKM
11:00-11:30	Coffee break	
11:30-12:30	<ul style="list-style-type: none"> • Water reuse in Europe - needs for and barriers to innovation 	Prof. Dr. Natasa Elezovic, UPKM
Module 4 IT tools in the water resources management		
12:30-14:00	<ul style="list-style-type: none"> • Review of the selected programs (HEC-SSP, HEC-HMS, HEC-RAS, HEC-WAT, Hydrus, Epanet, SWMM, WEAP) 	Prof. Dr. Jelena Djokic, UPKM
14:00-15:00	Lunch break	
15:00-16:30	<ul style="list-style-type: none"> • Good practices and learned lessons in managing water resources 	Prof. Dr. Jelena Djokic, UPKM
16:30-17:00	General discussion and conclusions of the day	

Thursday, 1 st July 2021		
University of Pristina in Kosovska Mitrovica, Faculty of Technical Sciences, Knjaza Milosa 7		
08:15-08:30	Participant registration	
Module 5 EU water policy under the Water Framework Directive		
08:30-10:30	<ul style="list-style-type: none"> • Objectives and instruments of EU Water Policy • Integrating water policy: Linking all EU water legislation within a single framework • Roadmap to implementing the directive's economic analysis • Best practice examples for using Water 	Prof. Dr. Natasa Elezovic, UPKM

	Framework Directive	
10:30-11:00	Coffee break	
Module 6 Flood and drought risk management		
11:00-13:30	<ul style="list-style-type: none"> • European policies influencing the management of floods • Flood risk management, climate change adaptation and disaster risk reduction • Challenge from water scarcity and droughts • Good practices and learned lessons across Europe in preventing and managing water scarcity, flood and drought situations 	Prof. Dr. Jelena Djokic, UPKM
13:30-14:00	Lunch break	
Module 7 Innovation in the water sector		
14:00-16:30	<ul style="list-style-type: none"> • Innovation in water policy and governance • European Innovation Partnership on Water • Barriers and bottlenecks for innovation in the water sector • Examples of innovation in the water sector 	Prof. Dr. Gordana Milentijevic, UPKM
16:30-17:00	Certificate award, final remarks and closing the event	

3 Statistics of trained participants

This section aims to present statistical data for the trained participants. During the trainings, 259 participants were trained i.e. 184 from the non-academic sector and 75 from the academic sector (Fig. 4).

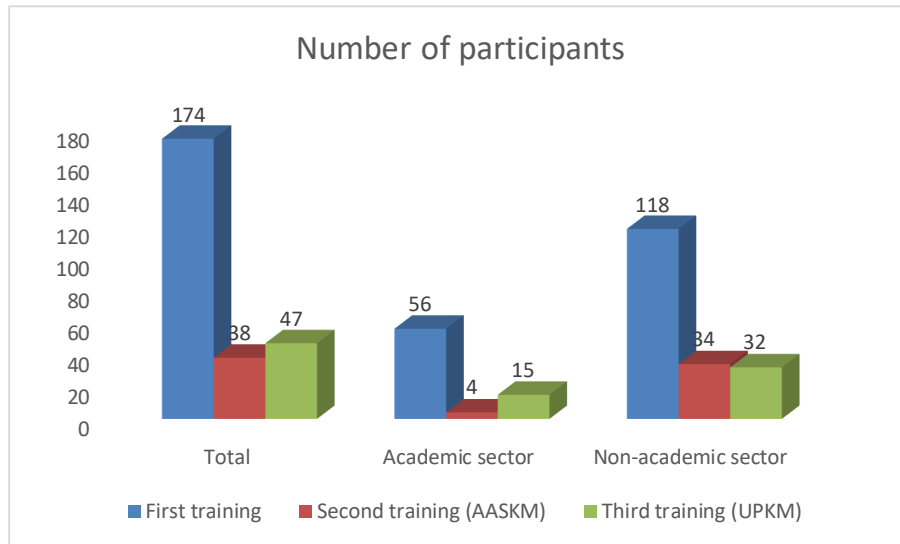


Figure 4. Number of participants

The percentage distribution of participants per training is presented in Fig. 5 i.e. 67% participated at the first (online training), 15% at the second and 18% at the third training.

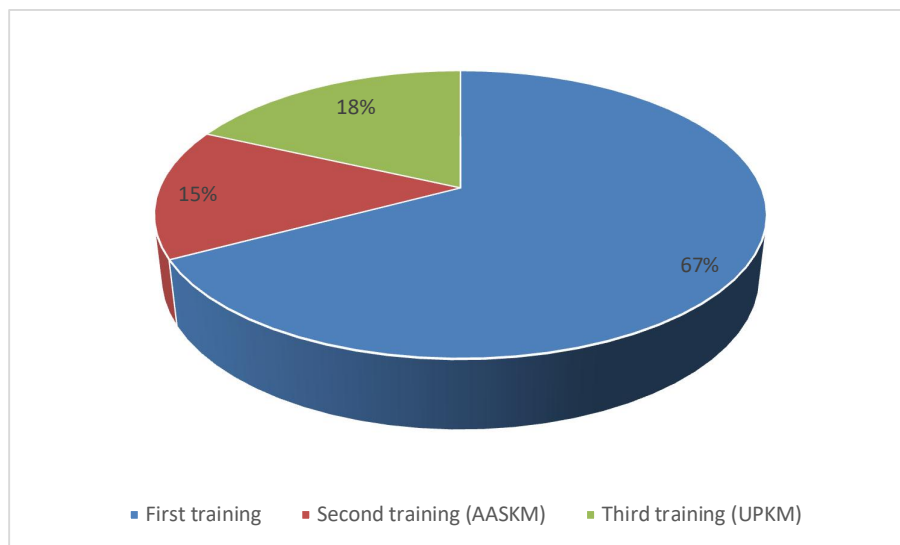


Figure 5. Percentage distribution of the number of participants per training

The number of companies (non-academic sector) per training is presented in Fig. 6. In total, 57 different companies took part in these trainings.

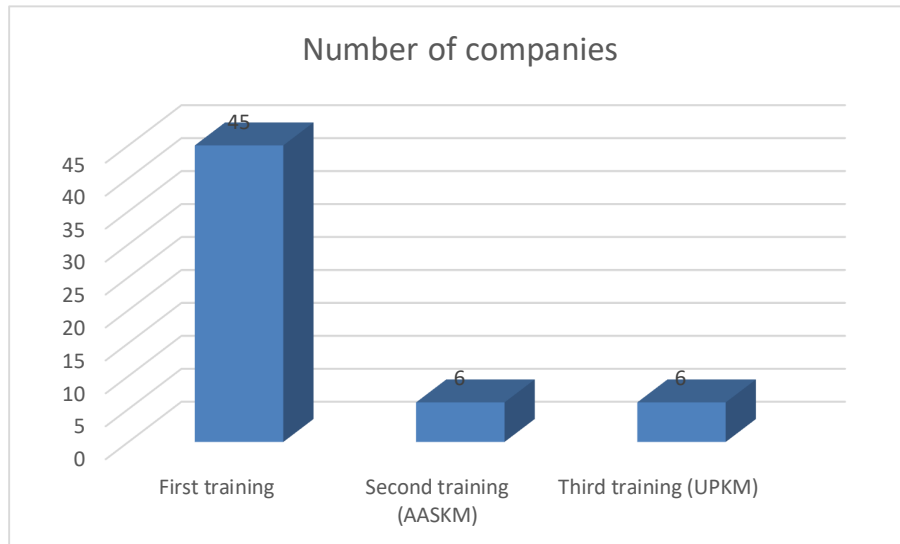


Figure 6. Number of companies per training

For the purpose of successful organization of trainings, 21 trainers were participated into trainings organization (Fig. 7) that represents capability of WB HEIs to organize similar activities and also more important the potential for sustainability after the end of project funding. The trainers prepared presentations that can be downloaded freely from the SWARM website.

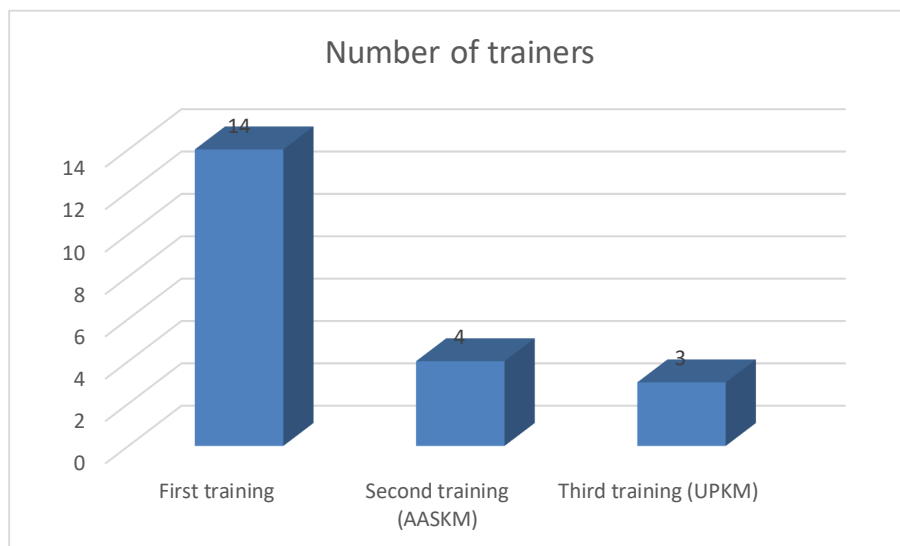


Figure 7. Number of trainers per training

After organized trainings, WB HEIs prepared self-evaluation report of training according to the received evaluation lists (Annex QA7). Evaluation list for self-evaluation of trainings contained three groups of questions classified as 1) general organisation of the training, 2) general participant expectations and 3) evaluation of trainer. Results obtained from the following questions were summarized in three self-evaluation reports (<http://www.swarm.ni.ac.rs/activities?id=76>).

The general opinion is that the trainings were excellent organised. Participants agreed in total that the trainings can help them in the future and that the presented topics are relevant. The quality of presentations and prepared material were evaluated with high marks.