



Implemented Dissemination Activities

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University of Nis, Faculty of Civil Engineering and Architecture

Sixth Project Management Committee meeting / 10th September 2021

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University of Nis



www.swarm.ni.ac.rs

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

Project number: 597888-EPP-1-2018-1-RS-EPPKA2-CBHE-JP



For the successful realization of the SWARM project goals, it is necessary to promote the project and to introduce the public to the project benefits.

Promoting the SWARM project has been planned using the:

- Website of the project
- Social media
- Different promo materials
- Webinar – Frontiers in Water Resource Management and
- Direct promotion of the SWARM at the project member Universities

The best way to promote a project anytime and anywhere in the world is through a website.

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

HOME PROJECT ACTIVITIES NEWS & EVENTS GALLERY SYMPOSIUM LLL COURSES MANAGEMENT

ABOUT THE PROJECT

Overall Broader Objective
Education of experts for water resources management in the Western Balkans HEIs in line with the national and EU policies.

Specific Objectives
Improve the level of competences and skills in HEIs in the field of water resources management. Develop innovative master programmes in the field of water resources management. Contribute to the fulfilment of the Bologna requirements and national accreditation standards by October 2021.

Develop and implement seven inter and cross-disciplinary LLL courses for the water sector in line with EU Water Framework Directive by January 2021.

SEWAGE
Retention
Pollution
Lack of Water
Spring
natural drainage
WATERWAY
Hydrodynamics
Irrigation

Watershed
groundwater
storm water
drinking water
water area

UPCOMING EVENTS

September 2021						
M	T	W	T	F	S	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

NEWSLETTER

SWARM Newsletter - Issue 1 June 2019
SWARM Newsletter - Issue 2 November 2019
SWARM Newsletter - Issue 3 May 2020
SWARM Newsletter - Issue 4 November 2020
SWARM Newsletter - Issue 5 July 2021

WELCOME TO THE OFFICIAL WEB SITE OF ERASMUS+ SWARM PROJECT

INTERNATIONAL
CVIADOCILIA

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

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SWARM Newsletter

Issue 1, 2, 3, 4, 5

Strengthening of master curricula in water resources management for the Western Balkans HEIs and stakeholders (SWARM) (597888-EPF-1-2018-1-RS-EPPKA3-CBHE-JP)

IN THIS ISSUE

- Report on LLL courses for professionals in the field of water sector related to HEIs in the field of water resources management
- Report on master curricula related to HEIs in the field of water resources management
- The North theme-based training of teaching staff in 3 countries

Welcome to the SWARM

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- The North theme-based training of teaching staff in 3 countries
- Development of new master curricula for HEIs in the field of water resources management
- Development of training content for HEIs in the field of water resources management

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SWARM newsletter, Issue 1/June 2019

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IN THIS ISSUE



- ◆ Project
- ◆ Consortium
- ◆ Kick-off meeting
- ◆ Workshop on innovative practices
- ◆ First theme-based training
- ◆ Report on WB regional issues related to WRM
- ◆ Report on EU water policies and innovation

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Welcome to the SWARM newsletter!

This bulletin provides information on the latest SWARM project activities.


 


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With the best regards,
SWARM project team

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SWARM newsletter, Issue 2/November 2019

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- ◆ Register of companies in the field of WRM in the WB countries
- ◆ Report on LLL courses for professionals in EU water sector
- ◆ Report on master curricula related to WRM in EU and WB partner countries
- ◆ Report on an analysis of water sector needs for LLL courses in WB
- ◆ The second theme-based training of teaching staff in ÅS
- ◆ The third theme-based training of teaching staff in Rijeka
- ◆ Report on development of specific competencies and learning outcomes of curricula
- ◆ Catalogue of competencies
- ◆ The fourth theme-based training of teaching staff in Thessaloniki

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- ◆ The fifth theme-based training of teaching staff in Lisbon (UL)
- ◆ Development of courses content and syllabi
- ◆ Innovation of existing and development of new master curricula for WRM in WB
- ◆ The sixth theme-based training of teaching staff in Vienna (BOKU)
- ◆ Report on purchased laboratory equipment and software
- ◆ Development of trainings' content and corresponding educational material
- ◆ The webinar – "Frontiers in water resources management"
- ◆ The mid-term results leaflet



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SWARM newsletter, Issue 3/May 2020

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SWARM Brochure

Page 1

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University of Nis



STRENGTHENING OF MASTER CURRICULA IN WATER RESOURCES MANAGEMENT FOR THE WESTERN BALKANS HEIS AND STAKEHOLDERS

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Project number: 597888-EPP-1-2018-1-RS-EPPKA2-CBHE-JP



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Erasmus + PROJECT SWARM

Overall Broader Objective

Education of experts for water resources management in the Western Balkans (WB) in line with the national and EU policies.

Specific Objectives

Improve the level of competencies and skills in HEIs by developing new and innovative master programmes in the field of water resources management (WRM) in line with the Bologna requirements and national accreditation standards by October 2021.

Design and implement seven new and up-to-date laboratories in WB partner HEIs in cooperation with EU project partners by November 2019.

Develop and implement LLL courses for the water sector in line with EU Water Framework Directive by January 2021.

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The diagram illustrates a water cycle with various stages and components: SEWAGE, Retention, Watercourse, Pollution, Purification, watershed, Lack of Water, TANK, groundwater, Spring, watershortage, discharge, drainage, Stom water, natural, drinking water, Hydrology, WATERWAY, water area, steams, RESOURCES, Hydraulics, and Irrigation.

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

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WORK PACKAGES

- WP1: Analysis of water resources management in the Western Balkan region ... leader: BOKU, Vienna (Austria)
- WP2: Development of competence-based curricula aligned with EU trends ... leader: AUTH, Thessaloniki (Greece)
- WP3: Development of training for professionals in water sector ... leader: UPKM, Kosovska Mitrovica (Kosovo*)
- WP4: Implementation of developed master curricula and training ... leader: NMBU, Akerhus (Norway)
- WP5: Quality assurance and monitoring ... leader: UL, Lisboa (Portugal)
- WP6: Dissemination and Exploitation ... leader: UNI, Niš (Serbia)
- WP7: Project management ... leader: UNI, Niš (Serbia)

Strengthening of Educational Base

Development and implementation of the advanced and modern master curricula in line with Bologna requirements and national accreditation standards.

Interdisciplinary approach and cooperation between experts from various scientific fields.

Introduction of innovative teaching and learning methodologies.

Promotion of excellence in application of the most advanced laboratory equipment.

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EU partners:

- University of Natural Resources and Life Sciences, Vienna _ BOKU, Austria
- Norwegian University of Life Sciences _ NMBU, Norway
- Aristotle University of Thessaloniki _ AUTH, Greece
- University of Architecture, Civil Engineering and Geodesy _ UACES, Bulgaria
- University of Rijeka, Faculty of Civil Engineering _ UNIRIFCE, Croatia
- Universidade de Lisboa _ UL, Portugal

Western Balkan partners:

- University of Niš _ UNI, Serbia
- University of Novi Sad _ UNS, Serbia
- University of Sarajevo _ UNSA, Bosnia and Herzegovina
- Džemal Bijedić University of Mostar _ UNMO, Bosnia and Herzegovina
- University of Prishtina in Kosovska Mitrovica _ UPKM, Kosovo*
- Technical College of Applied Sciences Uroševac with temporary seat in Leposavić _ TCASU, Kosovo*
- University of Montenegro _ UoM, Montenegro
- Public Water Management Company "Vode Vajvodine" _ PWMC VV, Serbia

Associated partners:

- "Sofijska voda" AD, Sofia, Bulgaria
- Association for Water Technology and Sanitary Engineering
- Association Resource Aarhus Center in DKH
- Regional water supply "Crnogorsko primorje", Montenegro

Coordinator:
University of Niš
Universitetskog brg 2
18000 Niš, Serbia
www.ni.ac.rs

This project has received the support of the European Commission. The Commission is not liable for any errors or for any consequences arising from the use of the information contained herein.

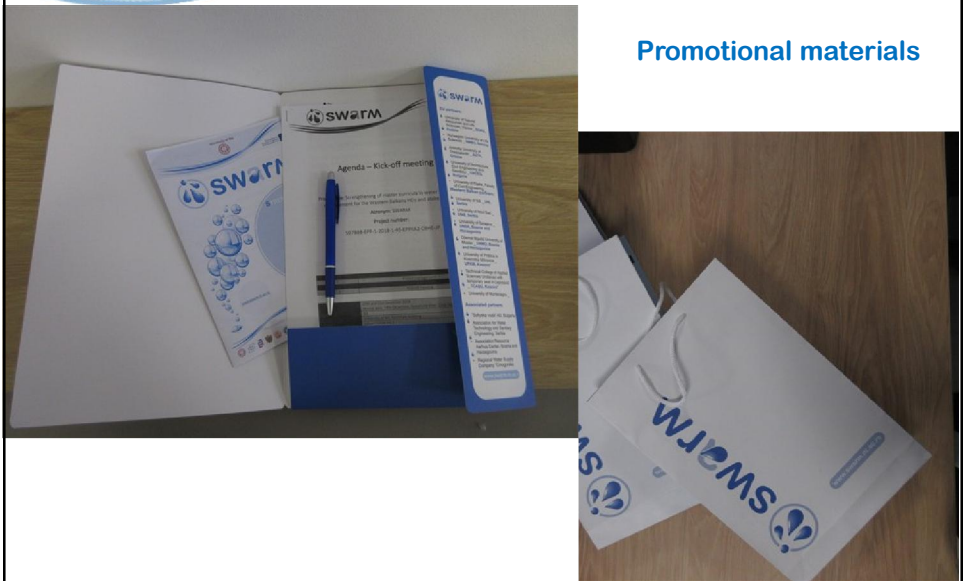
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Promotional materials

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SWARM Roll-up
SWARM Poster

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Webinar - Frontiers in Water Resources Management

The meeting was chaired by Milan Gocić and Zakhar Maletskyi. The webinar was organized by the University of Nis (UNI), Norwegian University of Life Sciences (NMBU), University of Natural Resources and Life Sciences, Vienna (BOKU), Aristotle University of Thessaloniki (AUTH) and University of Sarajevo (UNSA).

The purposes of the webinar were to:

- Share projects' outcomes and future ideas;
- Focus on knowledge exchanges with partners;
- Present water resource management issues.

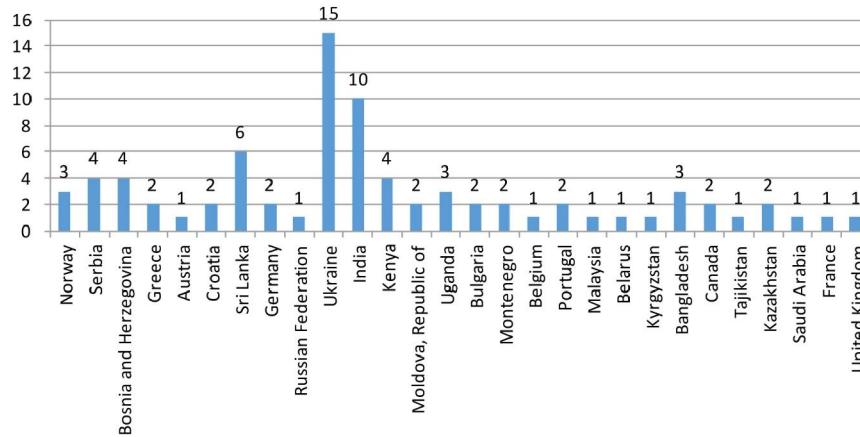
Webinar - Frontiers in Water Resources Management

The webinar presented different interdisciplinary research experiences in order to create a dialogue to point out solutions and synergies related to sustainable and fair water resource management, highlighting strengths, potentialities, and critical issues.

In total, 111 participants registered, 75 of whom attended (from 28 countries). The participants were from different specialties i.e. water and wastewater treatment, water resource management, water and wastewater transport and from different professions, i.e. academia, utilities, consultants, policy makers.

Webinar - Frontiers in Water Resources Management

Number of participants



Webinar - Frontiers in Water Resources Management

Tuesday, 5th May 2020

9:00 Greetings and Welcome

Milan Gocić, University of Nis

Zakhar Maletskyi, Norwegian University of Life Sciences

9:05 Strengthening Master Curricula in Water resource Management for the Western Balkans HEIs and Stakeholders (SWARM)

Milan Gocić, University of Nis

9:15 Perception of Strengths and Weaknesses towards Improving Water Resource Management in the Western Balkans

Michael Tritthart, University of Natural Resources and Life Sciences, Vienna

**9:30 Water Resource Management Issues in
Bosnia and Herzegovina**

Emina Hadžić, University of Sarajevo

9:45 Analysis of Water Sector Needs in the Western Balkans

Milan Gocić, University of Nis

10:00 Water Resource Management in Cold Climate

Harsha Ratnaweera, Norwegian University of Life Sciences

**10:25 Integrated Quantitative Assessment of Climate Change
Impacts on Mediterranean Coastal Water Resources and
Socio-Economic Vulnerability Mapping**

Charalampos Skoulikaris, Aristotle University of
Thessaloniki

10:45 Final Remarks

Zakhar Maletskyi, Norwegian University of Life Sciences

Promotion of SWARM project at the University of Novi Sad

Venue: University of Novi Sad, Faculty of Technical Sciences (UNS, FTS)

Date: 30th January 2020

The purpose and objectives of the workshop were to inform the participants (professors and assistants) about SWARM Project aims & objectives, as well as about the progress of the project. The main objective was to present the courses that will be modified and designed within the project.

Promotion of SWARM project at the University of Novi Sad

Presentations

First of all, Dejan Ubavin presented the overall objective of the project.

After that, Igor Peško presented the SWARM project, partners, project objectives and planned activities.

Maja Petrović presented the work packages in detail, as well as their status of progress.

At the end, Srđan Kovačević presented new and modernized courses within the SWARM project.

Promotion of the SWARM project at the University of Novi Sad





Promotion of SWARM project at the University of Novi Sad



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Thank you

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