

*SWARM – Development Of Water Resources
Management Education in The Western
Balkans in Line with The National and EU
Policies*

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8th Bulgarian-Austrian Seminar

1. SWARM – What does it stand for?

- **SWARM** - *Strengthening of master curricula in Water Resources Management for the Western Balkans HEIs and stakeholders*
 - Erasmus+ Project
 - Under Key Action 2 “Cooperation for Innovation and the exchange of good practices – Capacity-building projects in the field of Higher Education”
- Project started November 2018
- 3-years project

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2. Project Objectives

- **Wider objective**
 - Education of experts in the field of water resources management (WRM) in the Western Balkans (WB) in line with the national and EU policies.
- **Specific objectives**
 - Improvement of the level of competencies and skills in HEI's
 - ✓ development of new and innovative WRM master programs
 - ✓ in line with the Bologna requirements and WB countries national accreditation standards

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2. Project Objectives

- **Specific objectives**
 - Improvement of the level of competencies and skills in Higher Education Institutions (HEIs)
 - ✓ development of new and innovative WRM master programs
 - ✓ in line with the Bologna requirements and WB countries national accreditation standards
 - Design and implementation of seven new and up-to-date laboratories in WB partner HEIs
 - Development and implementation of LLL courses for professionals in water sector in line with EU's Water Framework Directive

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3. Project Consortium

Nr.	Partner	Acronim
P1	University of Nis (Project Coordinator)	UNI
P2	University of Natural Resources and Life Sciences, Vienna	BOKU
P3	Norwegian University of Life Sciences	NMBU
P4	Aristotle University of Thessaloniki	AUTH
P5	University of Architecture, Civil Engineering and Geodesy	UACEG
P6	University of Rijeka	UNIRIFCE
P7	Universidade de Lisboa	UL
P8	University of Novi Sad	UNS
P9	University of Sarajevo	UNSA
P10	Dzemal Bijedic University of Mostar	UNMO
P11	University of Pristina in Kosovska Mitrovica	UPKM
P12	Technical College of Applied Sciences Urosevac with temporary seat in Leposavic	TCASU
P13	University of Montenegro	UoM
P14	Public Water Management Company "Vode Vojvodine"	PWMC VV

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4. Working Packages

Work Package	Contents	Leading Partner
WP1: Preparation	Analysis of water resources management in the Western Balkan region	University of Natural Resources and Life Sciences, Vienna (BOKU)
WP2: Development	Development of competence-based curricula aligned with EU trends	Aristotle University of Thessaloniki (AUTH)
WP3: Development	Development of trainings for professionals in water sector	University of Pristina in Kosovska Mitrovica (UPKM)
WP4: Development	Implementation of developed master curricula and trainings	Norwegian University of Life Sciences (NMBU)
WP5: Quality Plan	Quality assurance and monitoring	Universidade de Lisboa (UL)
WP6: Dissemination & Exploitation	Dissemination and Exploitation	University of Niš (UNI)
WP7: Management	Project management	University of Niš (UNI)

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4. Working Packages

Work Package	Activity	Description
WP1: Preparation	1.1	Identification of WB regional issues related to WRM
	1.2	Analyse of EU innovations in water policy and EU recommendations and legislation in water sector
	1.3	Analyse of existing curricula related to WRM in both EU and WB partner countries
	1.4	Identification of needed laboratory resources in WB HEIs and alignment with formed EU HEIs WRM laboratory equipment list
	1.5	Workshop on innovative practices in the EU water sector
WP2: Development Competence-based curricula aligned with EU trends	2.1	Development of specific competencies and learning outcomes of curricula in WB
	2.2	Development of courses content and syllabi
	2.3	Innovation of existing and development of new master curricula for WRM in WB
	2.4	Accreditation of master curricula
	2.5	Theme-based training of teaching staff for acquiring new teaching and learning methods
	2.6	Purchasing of literature, software and laboratory equipment, installation and activation

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4. Working Packages

Work Package	Activity	Description
WP3: Development Trainings for professionals	3.1	Introduction with LLL courses for professionals in water sector in EU
	3.2	Analyse of water sector needs for LLL courses in WB
	3.3	Development of trainings' content and corresponding educational material
WP4: Development Implementation of developed master curricula and trainings	4.1	Implementation of developed master curricula
	4.2	Implementation of trainings for professionals in water sector
	4.3	Self-evaluation of master curricula
	4.4	Self-evaluation of trainings for professionals in water sector
WP6: Dissemination & Exploitation	6.1	Creation of the Dissemination & Exploitation Plan
	6.2	Development of project website and promotional materials
	6.3	Info days for student enrolment
	6.4	Roundtables with non-academic sector
	6.5	Winter/summer schools
	6.6	Symposium for promoting WRM in WB

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4. Working Packages

- **Trainings and Summer Schools**
 - 6 theme-based trainings for teaching staff from WB HEIs
 - ✓ Held in 5 EU countries and in Norway
 - ✓ 3-days training
 - ✓ To be done until April 2020
 - ❖ The staff training in UACEG is the first one
 - ❖ **29th -31st of May 2019 - ongoing today!**
 - 6 winter/summer schools for students from WB HEIs
 - ✓ Held in 5 EU countries and in Norway
 - ✓ 5-days long
 - ✓ To be done between January and September 2021
 - ❖ UACEG to welcome students in 2021

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5. Expected Results

- **Life Long Learning (LLL) Courses for professionals in water sector**
 - Developed courses
 - At least 1050 participants (on average 150 per WB HEIs)
- **Theme-based training for teaching staff**
 - 90 trainings for at least 17 teachers from WB
- **Winter/Summer Schools**
 - 120 trainings for at least 78 students from WB countries

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5. Expected Results

- **New subjects (courses)**
 - 15 new courses developed
 - Implemented in master curricula
- **Updated or new master curricula for WRM**
 - Accredited curricula (study programs)
- **Laboratory Equipment**
 - 7 laboratories in WB HEIs – modernised / updated

Not to neglect or forget

- Colleagues from EU countries will exchange experience and good practices between each other
- There will be opportunities for future cooperation

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THANK YOU FOR YOUR ATTENTION!



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