





Because of all the above, it is very important:

Education of experts for water resources management in the B&H in line with the national and EU policies/retrained teaching staff

In order to implement IWRM approach which includes intersectoral approach in water resources management, it is important to provide continuous education of students, stakeholders, to make continuous disemination of knoweldge

Education has a crucial role in integration process of candidate countries and must be based on the most up-to-date scientific knowledge and best practices-According to Indicative Strategy Paper for Bosnia and Herzegovina (2014-2020), it should "modernise the adult education and training".

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

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UNMO and UNSA contribution trough SWARM project

- Contribution to the review of the current situation in the water sector of Bosnia and Herzegovina, especially in the segment of integrated water management, as well as the impact on the education of engineers in the field of Water Engineering
- ☐ Contribution to the improvement of curricula of existing subjects in the field of water resources and environmental engineering, as well as the introduction of new subjects with the aim of improving students' competencies.
- ☐ Participation in the transfer of knowledge to the public sector as well as citizens in order to raise awareness of the importance of effective management of water resources.

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Survey results of the stakeholders regarding IWRM

The survey of public companies and institutions in B&H - 340 fulfilled questionnaires

 $Question \ 1: In your present position, how much time do you devote for carrying work related to Water Resources Management?$



The diagram shows that over half of the respondents (62.7%) are in the group whose work is related to water resource management up to 40% of the total working hours. About 23.2% are those who devote up to 60% of working time to this topic. While only 14.1% of those dealing with water management, spend over 60% working hours.

Half of the respondents (53.8%) are in the group whose work is related to water resources management up to 20% of the total working hours. About 34.1% respondents devote up to 60% of working hours to this topic, only 6.9% respondents devote 100% of working hours.

WP3.2 Report on analyse of water sector needs for LLL courses in WB - final.pdf

Survey results of the stakeholders regarding IWRM

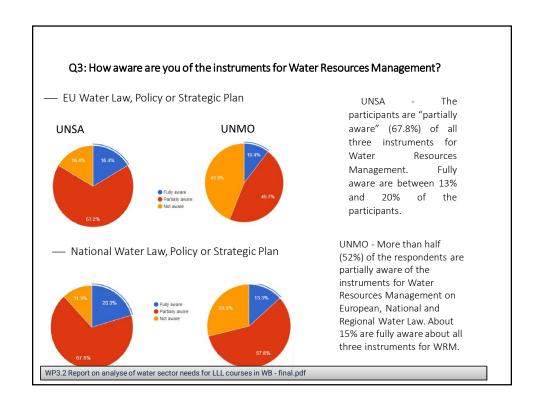
Q2 : In your present position, what are your responsibilities for Water Resources Management? You may tick more than one.

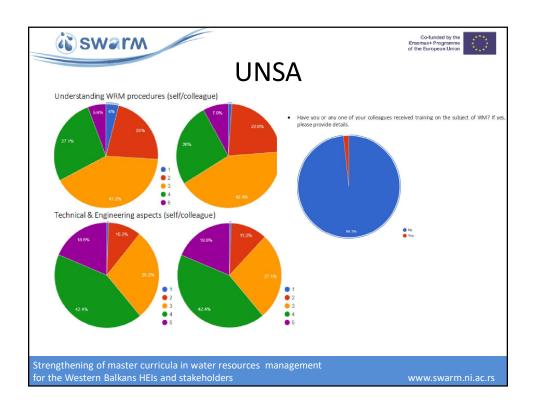


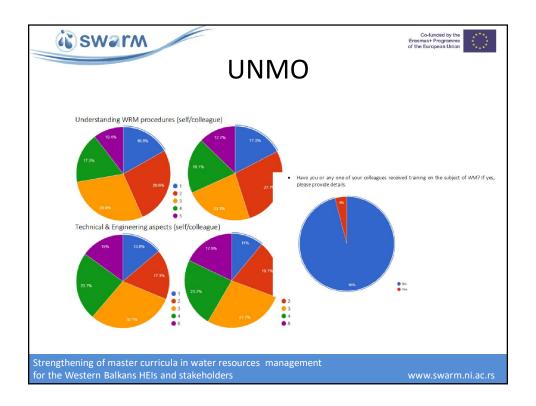
The most survey participants are responsible for Technical and Engineering Aspects (37.4%), and for Planning and Scheduling (37.4%). There is the smallest percentage of the participants involved in Staff Management, Control, Public Interaction and Complaint Redress, and Legal Aspects.

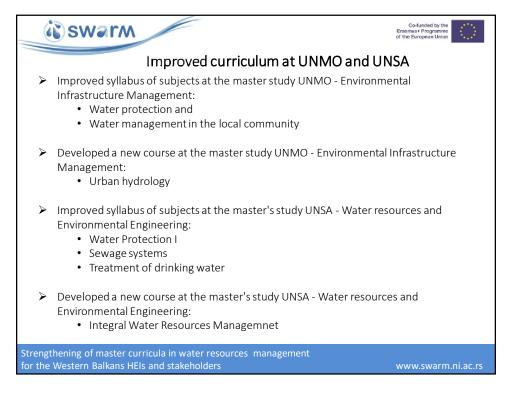
28.6% of respondents are responsible for Technical & Engineering Aspects, as far as other areas they have equal distribution of human resources.

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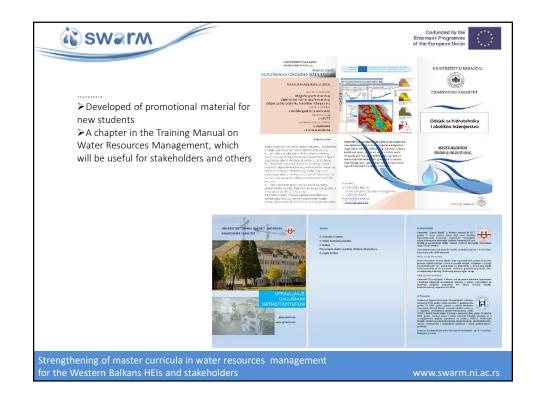




Modernization of the curriculum is achieved through:

- advanced approach to curriculum development using interdisciplinary communication, analysis of needs and problems of society and enterprises, mobilization of university resources and capacities for their solution,
- introduction of innovative teaching and learning methodologies,
- promotion of excellence in the use of ICT in higher education through the procurement of the most advanced laboratory equipment,
- increase the competencies, skills and applicable advanced knowledge of graduates in the WRM, harmonized between the WB and EU partner.

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A new laboratories

Procured laboratory equipment for innovative learning in water resources management

We modernised laboratory with the latest hardware and software equipment for simulation problems and solutions in WRM, where the students will gain practical knowledge that can be immediately applied, and the up-to-date library units will contribute to innovative study programmes.









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Sustainability of results in B&H

- > Two improved master programmes in WRM at the WB partner HEIs
- > A new training programmes, with training materials for water resources sector developed and conducted.
- > Retrained teaching staff with up-to-date knowledge in WRM to teach on the new/improved master programmes.
- > Advanced teaching and learning process introduced.
- > Introduced new laboratory equipment, library units and software necessary for the continuation of the master programmes.
- ➤ Prepared **Training Manual on Water Resources Management**, which will be useful for stakeholders and others
- Raising the awareness of citizens and stakeholders through lectures, webinars, round tables

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Thank you for attention \odot

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