

DIM ESEE-2: IMPLEMENTING INNOVATIONS

Project title: Dubrovnik International ESEE Mining school: Implementing innovations

Supported by



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Project leader: University of Zagreb - Faculty of Mining, Geology and Petroleum Engineering (UNIZG-RGNF)

Consortium:

Dnipro University of Tehcnology (NMU), Ukraine

Geological Survey of Montenegro (GSM), Montenegro

Goce Delcev University Shtip (GDU), North Macedonia

Montanuniversität Leoben (MUL), Austria

National Technical University of Athens (NTUA), Greece

Polytechnic University of Tirana - Faculty of Geology and Mining (FGM), Albania

Slovenian National Building and Civil Engineering Institute (ZAG), Slovenia

Technical University of Košice (TUKE), Slovakia

Université de Liège (UL), Belgium

University of Belgrade, Faculty of Mining and Geology (UNIBG-RGF), Serbia

University of Mining and Geology "St Ivan Rilski" (MGU), Bulgaria

University of Miskolc (UM), Hungary

University of Tuzla, Faculty of Mining, Geology and Civil Engineering (RGGF), Bosnia and Herzegovina

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Project description

DIM ESEE-2: Implementing innovations is a lifelong learning project focused on **rising innovativeness among raw materials professionals in the ESEE region**, and is based on positive results and success of [previous DIM ESEE school \(2016-2020\)](#).

During the preparation phase for the project, DIM ESEE-2 consortium developed extensive questionnaire for raw materials professionals as well as in-deep analysis of current ESEE higher education system (HEI). Results are pointing to continuous lack of lifelong learning (LLL) courses for raw materials (RM) professionals in the Eastern and Southeastern Europe (ESEE region), with the exception of obligatory, law-regulated educations for professionals related to safety, working in explosive environment etc. At the same time, classical higher education system with outdated curriculum has very little ability to follow development trends and absorb new innovative and advanced tools and methodologies. This unfortunate situation reflects in **lower innovativeness rate of HEI graduates and alumni**. Our aim is to change recognised negative trends in the region by implementing:

1. **innovative workshops for RM professionals at IUC Dubrovnik, and**
2. **spin-off workshops for RM Master and PhD students at ESEE universities.**

Ad 1. Preliminary technical workshops are developed based on questionnaire campaign conducted by DIM ESEE consortium January – February 2020, including 100+ raw materials companies from ESEE region.

For the duration of DIM ESEE v.2 (2021 – 2025), a total of 120+ professionals will receive LLL education attending innovative workshops on following topics:

- 2021 **Innovation in exploration**
- 2022 **Innovation in process-oriented orebody characterization**
- 2023 **Innovation in extraction**
- 2024 **Innovation in ore processing**

More information is available [here](#).

Ad. 2. ESEE universities will prepare the joint spin-off workshops for their PhD and MSc students from raw materials sector, using prepared materials of the primary innovative workshops. Spin-off programmes will last continuously for four years after the implementation, targeting raw materials students – future alumni of the ESEE universities. During that period, we estimate that additional 80 MSc and PhD raw materials students will benefit from innovative workshops, increasing level of innovation and entrepreneurial skills among the MSc and PhD student population in the region for 8%.

Project objectives and scopes

- Delivering Training need analysis of the [RIS ESEE](#) raw materials companies from Albania, Bosnia and Herzegovina, Bulgaria, Croatia, Greece, Hungary, Montenegro, N. Macedonia, Serbia, Slovakia, Slovenia and Ukraine via questionnaire.
- Implementing four annual workshops (3 days each) for a total of 120+ RIS ESEE professionals at Inter-University Centre Dubrovnik
- Delivering and implementing four spin-off programmes in form of student workshops (2 days each), following annual IUC Dubrovnik workshops topics, in order to benefit 60 RIS PhD and MSc students, future RM professionals, and 15 RM academicians from 9 participating RIS ESEE universities. Spin-off programmes will continue for minimum 3 years after the end of the project, as self-sustainable courses.
- Dissemination of the DIM ESEE v.2 innovative workshops annually:
 - ✚ Disseminating the project at minimum 20 national or regional professional conferences/business forums/chambers of commerce/professional societies events etc.
 - ✚ Digital communication with minimum 2.000 ESEE RM professionals from the ESEE region
 - ✚ Attending minimum 11 university events annually in the ESEE region and promotion of DIM ESEE spin-off workshop to minimum 1000 students
 - ✚ Digital communication with minimum 2.000 ESEE RIS ESEE RM MSc/PhD students and academicians form the ESEE region
 - ✚ Attending 1-2 physical meetings with national policy makers and promotion of DIM ESEE Innovative workshop.
 - ✚ Minimum 2 media appearances in each of the consortium countries annually (28 media appearance per year).
- Building a new educational collaborative network between different RIS ESEE universities, non RIS universities and research institutes and participating industry partners contributing to building, training and de-siloing of the ESEE education, scientific and industrial community.
- Project will increase the capacity for innovation in RM sector of the ESEE region and outcome of the project will create a strong regional KTI (*knowledge triangle integration*) between universities, research organizations and RM industry.