



# Dubrovnik International ESEE Mining school

## DIM 2017 - Zero Waste Management

November 20 to 25 2017

Inter University Centre Dubrovnik, Croatia

European Institute of Innovation and Technology (EIT) has granted financing of the educational project “**Dubrovnik International ESEE Mining school**” (acronym DIM ESEE) worth 0.5 M€ funded through the program KIC Raw Materials. The **project consortium** consists of **eight key higher education and research institutions** from the area of Eastern and Southeastern Europe (ESEE region) with the Faculty of Mining, Geology and Petroleum Engineering (University of Zagreb) as the lead partner.

The **main objective** of the project is **knowledge transfer**, as well as **strengthening innovation capacities** in the mining, recycling and waste management sectors. This is a lifelong learning project that will be implemented in close partnership with industry stakeholders in all project consortium countries. During the **four years of project implementation**, the following **key topics** will be analyzed:

- 2017 Zero waste management
- 2018 Deep intelligent mining
- 2019 Small mining sites
- 2020 Recycling

The **Dubrovnik International ESEE Mining school** brings together international experts in the field of raw materials in the heart of the ESEE Region. Within the thematic workshops and project work **the focus lies on direct knowledge transfer** from renowned experts to the participants, but also the creation of an **open dialogue** between graduate students, scholars, researchers, the industry and the wider society. The knowledge and skills gained at DIM aim at increasing the employability of mining engineers. Furthermore, wider general education on topics of mining and processing and especially the improvement of mining techniques, resulting in a lower environmental impact, help gain **wider societal acceptance of raw material extraction and processing**. In the long run, the program will lead to an **increase in sustainable mining and processing activities**, which will result in economic growth and the creation of employment in respective countries.

Under the **2017 topic Zero waste management DIM ESEE** project partners will discuss several important questions. *How to preserve natural resources? How to recycle and utilize mining and industrial waste as valuable resources for the building sector? How to reduce environmental impacts by these new approaches?* The topic will deal with:

- (1) recycling in general – including legislation aspects, methods for recycling of mining and industry waste, selected good practices on steel slag; applications in building sector;
- (2) large-scale landfilling of industrial, mining, and municipal waste across the region, and its use in construction;
- (3) reclamation of contaminated areas, polluted by past industrial and mining activities;



- (4) demonstration of sustainable additional purifying of water from small wastewater treatment plant;
- (5) enhancing a circular economy through industrial symbiosis by demonstration on selected cases how to use big data mining and decision tools on one hand and demonstrating possible innovative processes and services, that enable product and material reuse, recycling, and recovery on the other hand;
- (6) environmental impact and benefits of recycling waste –using Life Cycle Assessment tools.

Visit our web page: <https://www.rgn.hr/en/studies/dubrovnik-international-esee-mining-school>

**Contact us**

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