

# RAW MATERIALS UNIVERSITY DAY ZAGREB

Project title in Zagreb: RawMaterials University Day Zagreb



Project leader: EIT Raw Materials GmbH (EIT RM)

Duration of the project: throughout 2018 (RM University Day Zagreb held on **14th June, 2018**)

Project partners for RMUD Zagreb (constituent units of University of Zagreb):

- Faculty of Mining, Geology and Petroleum Engineering, Zagreb (RGNF) - coordinator
- Faculty of Food Technology and Biotechnology, Zagreb (PBF)
- Faculty of Chemical Engineering and Technology, Zagreb (FKIT)
- Faculty of Science (Department of Geology), Zagreb (PMF)
- Faculty of Geotechnical Engineering, Varaždin (GFV)
- Faculty of Metallurgy Sisak (SIMET)



This activity has received funding from the European Institute of Innovation and Technology (EIT), a body of the European Union, under the Horizon 2020, the EU Framework Programme for Research and Innovation

Web page: <https://eitrawmaterials.eu/events/rawmaterials-university-day-at-the-university-of-zagreb/>

Contact person at UNIZG-RGNF: Antonija Zrno, mag.pol., Office for International cooperation and Projects

E-mail: [antonija.zrno@rgn.hr](mailto:antonija.zrno@rgn.hr)

### Project description:

Raw materials University Day is an EIT RawMaterials' program which takes place since 2016 and is devoted to promotion of raw materials-related professions and study programmes. In 2018 this event is being hosted by three universities across Europe, among which is University of Zagreb. The overarching theme of Raw materials University Day Zagreb, held on 14th June this year, was **potential, importance, education and employment in the raw materials sector**. The opening ceremony was held at the University of Zagreb rectorate building, which was followed by simultaneous thematic events at 6 faculties, constituent units of University of Zagreb, both within Zagreb and in the towns of Varaždin and Sisak. The main goal was introducing high school pupils, students and wider audience to the importance and utility of primary and secondary raw materials in everyday life as well as the entire raw materials life cycle, with topics covered:

- Exploration and raw materials resource assessment;
- Mining in challenging environments;
- Increased resource efficiency in mineral and metallurgical processes;
- Substitution of critical and toxic materials in products and substitutions for optimised performance;
- Recycling and materials chain optimisation of end-of-life products, and
- Design of products and services for the circular economy.

### Target participants:

- Pupils from 1st, 2nd and 3rd grade of high schools/grammar schools outside Zagreb, who gained basic knowledge on raw materials via interactive exercises and were also presented study programmes and learning opportunities at the faculties they visited;
- BSc, MSc and PhD students from STEM (*Science, Technology, Engineering, Mathematics*) subjects at the University of Zagreb, who attended the main programme and lectures organized at the faculties, and
- Wider society which participated in the opening ceremony and main programme, and was informed of the event via media



This activity has received funding from the European Institute of Innovation and Technology (EIT), a body of the European Union, under the Horizon 2020, the EU Framework Programme for Research and Innovation

## Raw materials University Day held successfully in Zagreb, 14th June 2018

The main programme was held at the University of Zagreb rectorate building, with opening speeches from the University Rector, followed by representatives of Ministry of Economy, Entrepreneurship and Crafts, Ministry of science and education, as well as Ministry of Environment and Energy.



More than **200 high school pupils** from Josip Slavenski Grammar School Čakovec, Grammar School Nova Gradiška, Grammar School Požega and Grammar School Petrinja visited six faculties in Zagreb, Varaždin and Sisak and participated in **17 interactive lectures** and **12 showcases** by institutional or industrial partners. Seven lectures were live streamed.

At UNIZG-RGNF, pupils visited three laboratories, attended two lectures with showcases and the demonstration of Compact Robotic Dozer, machine for deep mining manufactured and presented by DOK-ING company.



This activity has received funding from the European Institute of Innovation and Technology (EIT), a body of the European Union, under the Horizon 2020, the EU Framework Programme for Research and Innovation



The following lectures were held for students and professors:

- Tihomir Frangen (Croatian Geological Survey): Application of drones in geology
- Željko Dedić (Croatian Geological Survey): Geological potential of raw materials in Croatia
- Mladen Pađen (DOK-ING): Mechanization in mining industry via remote systems
- Success stories (former students of Faculty of Mining, Geology and Petroleum Engineering): Tomislav Šokić i Mario Pavičić



This activity has received funding from the European Institute of Innovation and Technology (EIT), a body of the European Union, under the Horizon 2020, the EU Framework Programme for Research and Innovation