



Regional innovation scheme for zero waste extraction of critical raw materials

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Useful links:

<http://ris-recover.zag.si/>
<https://eitrawmaterials.eu/>

External Expert

We are looking for external participants in the RIS-RECOVER project. All interested institutions please join us in "Building Knowledge Community" by "stakeholder log in" on the web page:
<http://ris-recover.zag.si/>

Building Knowledge Community:

For regular updates and progress about the project, please register as a relevant stakeholder on the projects web page:

<http://ris-recover.zag.si/>

More information

For more information about the project activities and registration to events (free of charge) please visit the web page:

<http://ris-recover.zag.si/>

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Introduction

Mining tailings and metallurgical heaps can pose a substantial risk to environment, due to their large quantity and composition, while on the other hand represents valuable sources of secondary raw materials (SRM), including critical raw materials. The main objective of the RIS-RECOVER project is to develop a roadmap for the zero waste extraction of SRMs and metals from mining tailings and metallurgical heaps in ESEE and to build the capacity of T-shaped entrepreneurs and actors along the value chains. The final output of the project will be a regional innovation scheme based on validated and fact-based data.

Project progress

During the last period project partners from Republic of North Macedonia, Civil Engineering Institute "Macedonia" (CEIM) and Goce Delcev University (GDU) successfully were focused on material residues after valuable raw metals are extracted and S-LCA. CEIM worked on utilisation of residues in construction industry. GDU worked on assessment of social impacts of large-scale industries in Macedonia. For that purpose a questionnaire was distributing among local inhabitants and students.



Technical demonstration based on the zero waste paradigm, which means that, once valuable raw metals are extracted, the residues can be recycled for the construction sector.

News about project activities

For the most interesting topics that were offered each partner institution will prepare one training:

- **GIM:** Laboratory testing of waste based materials from industry and mining for their application in construction **DATE: 4th December**
- **UGD:** SEM/EDS analyses of ores **DATE: 7th December**
- **VITO:** Advanced leaching processes for the removal of specific metals (hydrometallurgy): column leaching, batch leaching... **DATE: 14th December**
- **ZAG:** Use of EAF slag in construction sector (mineralogy, special testing such as volume expansion of slag, leaching) **DATE: 16th December**
- **MUL:** General approach on the assessment of industrial by-products (e.g. Waelz slag) **DATE: 14-18th December**

All trainings will be online, supported by video material from laboratories/field/pilots of the project partners etc.

Future project activities

In the next period there will be activities for build up a **Regional Innovation Scheme – roadmap**.