

REECOL

Ecological rehabilitation and long term monitoring of post mining areas

Newsletter No. 2

WELCOME to the 2nd newsletter of the REECOL European project!

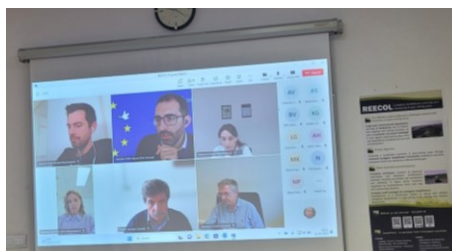
A lot of work to produce the project results and to reach the project target audience was carried out by us during the past few months. In this issue we share news regarding our main activities and achievements during this period of time. More information you can find on the project website and social media.

REECOL Team

What's going on in the project

The partners' progress meeting

On 11-12.04.2024 a project meeting took place in Velenje, Slovenia. The 1st day was devoted to presentations and discussions in the conference room. Some of the attendees participated online. Our special guest was the Project Officer from the European Commission. The 2nd day was spent on visiting the lands of Premogovnik Velenje (PV) coal mine that undergo rehabilitation and the Coal Mining Museum of Slovenia in Velenje – both the surface and underground part.



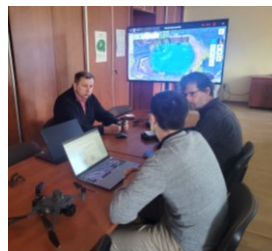
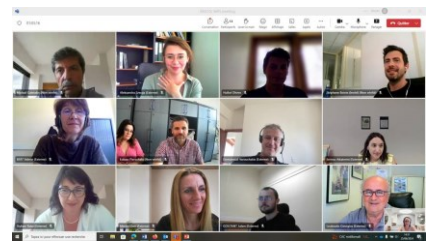
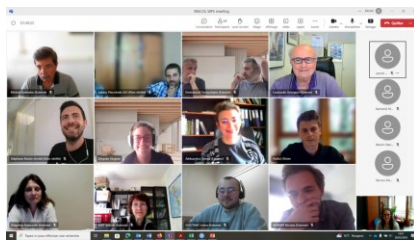
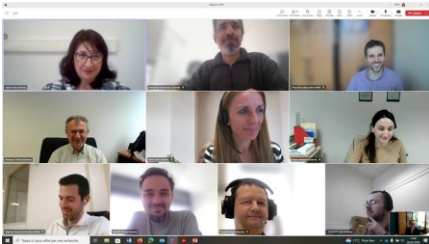
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What's going on in the project – cont.

Work on the results

During the past few months, work on the project results included: online and in-room meetings, laboratory work on compost, drone flights and processing the collected data, soil samples collecting and analysis, literature studies. We also completed development of the *Deliverable 3.1: Document on classification of ecosystem degradation including of degraded land maps*.

See a photo gallery below and find out more on the project website and social media.



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Reaching the project target audience on conferences

We were very active in this matter. The REECOL ideas and research results were shared during 5 conferences!

- 1 **KOMEKO 2024** - International Scientific and Technical Conference held on 18-20.03.2024 in Szczyrk, Poland. A presentation: „The concept of technology for non-contact soil reclamation developed as part of the European project REECOL” was given. The project informative roll-up was also exhibited.
- 2 **EGU24** General Assembly 2024 held on 14-19.04.2024 in Vienna, Austria. A presentation: „Certification systems for the ecological rehabilitation of mined areas” prepared by TUC and PPC was given.
- 3 **geoENV2024** 15th International Conference on Geostatistics for Environmental Applications held on 19-21.06.2024 in Chania, Greece. A poster „'Advancing Sustainable Mining: The Role of Legislation and Certification in Ecological Reclamation” developed by TUC and PPC was displayed. The project informative roll-up was also shown.
- 4 **SGEM 2024** XXIVth International Multidisciplinary Scientific GeoConference Surveying, Geology and Mining, Ecology and Management held on 29.06-08.07.2024 in Albena, Bulgaria and online. Two presentations were given online by VUHU: 1. „Degraded soils of the Most Basin and the possibilities of their localization, classification and reclamation” and 2. „Selection of case study areas of the Most Basin for solving reclamation issues of the European project REECOL”.
- 5 **SDIMI 2024** The 11th International Conference on Sustainable Development in the Minerals Industry held on 09-11.07.2024 in Turin, Italy. A presentation „Certification and ecological reclamation of mined areas: evolving standards and practices for sustainable mining” prepared by TUC and PPC was shown.



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Virtual Lecturers/ Publishers						
No	SECTION	ARTICLE	TITLE	NAME	FAMILY	UNIVERSITY
90	13.SoiIs	DEGRADED SOILS OF THE MOST BASIN AND THE POSSIBILITIES OF THEIR LOCALIZATION, CLASSIFICATION AND RECLAMATION	PhD	Michal	Rehor	Brown Coal Research Institute j.s.c.
91	13.SoiIs	SELECTION OF CASE STUDY AREAS OF THE MOST BASIN FOR SOLVING RECLAMATION ISSUES OF THE EUROPEAN PROJECT REECOL	PhD	Michal	Rehor	Brown Coal Research Institute j.s.c.

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Get some knowledge...

Soil is a mixture of minerals, organic matter, water, and air, which forms on the land surface. It is a limited, ecologically and economically **valuable non-renewable resource**. Along with water and air, it is **essential for life**.

Soil has **physical, biological and chemical properties**.

Soil health - the continued capacity of soil **to function as a vital living system**, within ecosystem and land-use boundaries, to sustain biological productivity, maintain the quality of air and water environments, and promote plant, animal, and human health.

Soil fertility - the ability of a soil to **sustain plant growth** by providing essential plant nutrients and favorable chemical, physical, and biological characteristics as a habitat for plant growth. **Plant nutrients** include the macronutrients nitrogen, phosphorus and potassium, sulfur, calcium and magnesium. Micronutrients are essentially boron, chlorine, copper, iron, manganese, molybdenum and zinc. **Fertilizers** are chemical or natural substance or material that is used to **provide nutrients to plants**, usually via application to the soil, but also to foliage or through water in rice systems, fertigation or hydroponics or aquaculture operations. Nutrient sources include chemical and mineral fertilizers, organic fertilizers, such as livestock manures and composts, and sources of recycled nutrients.

References:

<https://tinyurl.com/mwzjmexe> <https://tinyurl.com/3bs6xx82> <https://tinyurl.com/wydxzeba> <https://tinyurl.com/56w52vy6>
<https://tinyurl.com/m89enkfv> <https://tinyurl.com/4j92rkzx>

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