



# A Sustainable Ecosystem for the Innovative Resource Recovery and Complex Ore Extraction



**The XTRACT project introduces the novel concept of the Zero Emission Mine of the Future, developing and validating innovative microinvasive technologies for sustainable and decarbonised extraction**

## TECHNOLOGIES

- Mineral Classification Mastery
- Revolutionary Waste Management
- Ore Grade Assessment in Real-Time through Drill Monitoring
- Sustainable Practices in Focus
- Eco-Friendly Metal Recovery
- Efficient Membrane Filtration
- Airborne Geophysical-Electromagnetic System
- XTRACT Reconfigurable UAV System
- Comprehensive Mine Mapping
- Tailings Content Assessment
- Optimised Drilling Performance
- Electrodialysis and Processability Index
- Novel Phytoextraction and Phytoremediation Solutions

## PROJECT FACTS

Funding Programme:  
Horizon Europe  
Duration:  
36 months  
Start Date:  
December 1st, 2023  
Total cost:  
4.995.636€  
XTRACT Coordinator:  
Technische Universitaet  
Bergakademie Freiberg (TUBAF)

## CONNECT

- <https://xtract-project.eu>
- @xtract-project.bsky.social
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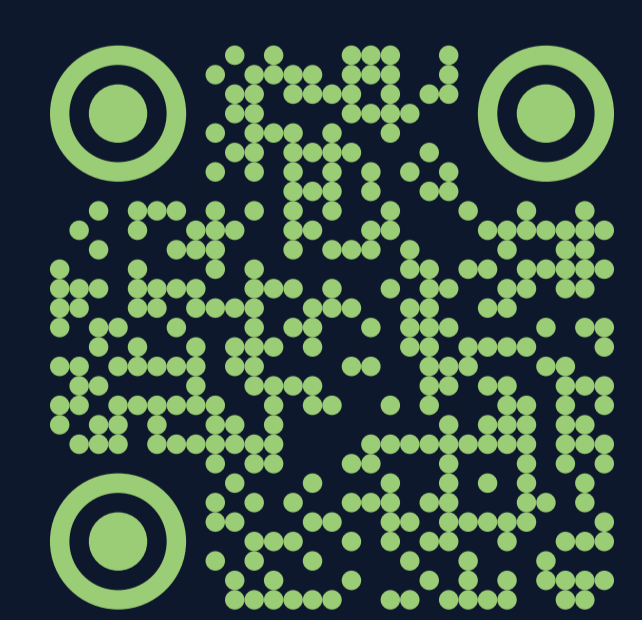
## PILOTS

Pilot 1  
Tellerhäuser  
Germany

Pilot 2  
Björkdal  
Sweden

Pilot 3  
São Domingos  
Portugal

Pilot 4  
Lavrion  
Greece



## CONSORTIUM



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