National Technical University Of Athens

Research Team: Raw Materials Exploitation & Sustainable Energy Solutions



6.8



Partnerships





- Multi-Stakeholder Platform for a Secure Supply of Refractory Metals in Europe (MSP-REFRAM). H2020 2015.
- Guidance for innovation friendly minerals policy in Europe (MIN-GUIDE). H2020 2015
- Solutions for CRitical Raw materials a European Expert Network (SCRREEN). H2020 2016.
- Network of Infrastructure on Product Centric Recycling (PCRec.). EIT RawMaterials, 2016
- Infrastructure and technology network on residue valorisation (ResiduFlex). EIT RawMaterials, 2016
- 8Circular Economy MOOC: Rationales, Policies and Business Cases for Closing Material Loops (CEMOOC). EIT RawMaterials, 2016
- International Intelligence and Business Development Network on Circular Economy Business Opportunities with China (intCEB). EIT RawMaterials, 2016

PROJECT CONCEPT

Further, MIREU will facilitate an exchange between all interested stakeholders in the regions, namely regulatory authorities, political and administrative bodies, development agencies, mining companies, non-government organisations, as well as the public.

Guidelines and recommendations for actions to be taken to foster a sustained and sustainable development of the extractive industries will be developed in close co-operation with a range of selected regions from the European Union.



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PARTNERS:





A EUROPEAN NETWORK OF MINING AND METALLURGY REGIONS

How can European regions ensure a sustained and sustainable supply of mineral raw materials to the EU? The EU project MIREU aims to establish a network of mining and metallurgy regions across Europe, that will help the regions to share knowledge and experiences when facing the challenge to establish and maintain an extractive industry.

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AIM OF THE PROJECT

The project will develop a shared knowledge base, which will consider the region-specific geographic and economic features, cultural, societal and language diversity, and their historical developments. The network will also learn from experience in other regions of the world. This knowledge base will allow to understand what has been conducive and what hampering to the development of extractive and metallurgical industries. It will also provide the context for a bottom-up integration of these activities into their respective socio-economic and socio-cultural

context.

The EU project MIREU aims to establish a network of mining and metallurgy regions across Europe, that will help the regions to share knowledge and experiences

MIREU will establish a Council of Mining and Metallurgy Regions of Europe (CoMMER) a permanent regional network and raw materialsfocused working group, incorporated within and operated by ERRIN (European Regions Research and Innovation Network)

ERRIN is a platform of more than 120 regional stakeholders organisations (24 countries) most of whom are represented by their Brussels offices.

CoMMER will provide a forum for sustained interaction between different stakeholders within the regions as well across the regions.



Minerals Policy Guidance for Europe

www.min-guide.eu

ABOUT MIN-GUIDE

Are you part of the public administration, business, research, geological survey or civil society organisation interested in one or more aspects of the mining valuechain? Do you want to contribute to the development of a minerals policy framework that promotes innovation as well as a secure and sustainable supply of minerals in Europe?

If your answer is "Yes" to these questions, join the MIN-GUIDE project!

MIN-GUIDE is a Horizon 2020 project that aims to establish a coherent and innovation friendly minerals policy framework in Europe by developing a Minerals Policy Guide and engaging diverse stakeholders in the mineral sector and related areas.

MIN-GUIDE DOES:

Minerals Policy Guide

Providing comparable information about mineral policies and innovation potential of the 28 Member States and the EU

5 Policy Laboratories

Fostering experience exchange and knowledge co-creation on different aspects across the mining value-chain

3 Annual Conferences

Disseminating the project results and enhancing

MIN-GUIDE BRINGS TOGETHER:







Advanced experience on process simulation, and LCA software:

- TRNSYS
- **SUPERPRO**
- SimaPro
- GaBi

RESOURCE

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ACOUISITION



Our LCA projects

LICYMIN:	LCA for ore processing and metal production processes
I-STONE:	LCA focused on waste management challenges and efficiency optimization of dimensional stone production chain
LIFETIME:	LCA analysis of the overall environmental performance of buildings and civil infrastructures
ENVIMAN:	LCA combined with risk assessment for polluted sites from mining and metallurgical activities, waste minimization and long term control of rehabilitated sites
AXIOMA:	comparative analysis of the environmental footprint (LCA combined with risk assessment) between conventional paints and antimicrobial paints adapting smart release concepts of eco-acceptable biocide
ENTHALPY:	LCA combined with Process System Engineering for the dairy production chain for 16 possible routes combining conventional and innovative technologies
LOCOMATECH:	LCA for Low Cost Materials Processing Technologies for Mass Production of Lightweight Vehicles





