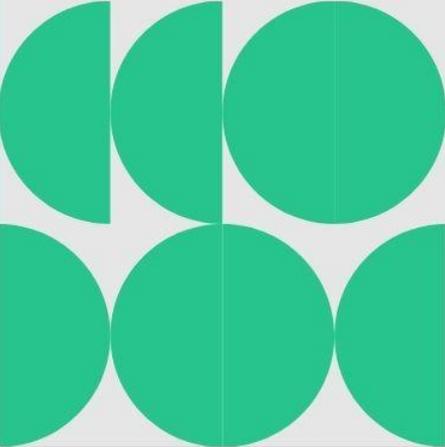


17 NOVEMBER 2025
BRUSSELS

NETWORKING EVENING

CONNECTING COMMUNITIES ACROSS EUROPE

RAW MATERIALS R&I



NCBR

National Centre for Research
and Development

The National Centre for Research and Development

NCBR is a centre for **supporting** and **developing** innovative technological and social solutions, creating an ecosystem of knowledge of, and information about, innovation. It, as funding agency, organizes and implements undertakings contributing to the civilization growth of the country.



NCBR 

Krajowy Punkt Kontaktowy
Programów Badawczych UE

The National Contact Point at the National Centre for Research and Development

NCBR supports the participation of Polish researchers, research units, enterprises of various sizes, central and regional governments, non-governmental organisations in the EU Framework Programme for Research and Innovation – **Horizon Europe**.





National Contact Point

Developing synergies and co-designing R&I national funding system for the forthcoming years

Supporting the participation of Polish research organisations, enterprises and other entities in the Horizon Europe and EURATOM

NCP Department in National Centre for Research and Development – team of 50 experts with more than 25 years of expertise

Providing training, consultations, networking events and much more

Cooperating with European Commission, other EU institutions and MS, **Polish governmental partners**, potential and actual beneficiaries of EU Framework Programmes for Research and Innovation

NCBR

National Centre for Research
and Development

NCBR

Krajowy Punkt Kontaktowy
Programów Badawczych UE

**HORIZON
europe**

Let's stay in touch!

National Contact Point:

kpk.gov.pl



NCBR

National Centre for Research
and Development

NCBR

Krajowy Punkt Kontaktowy
Programów Badawczych UE

NCBR Office in Brussels

NCBR Office in Brussels | BSP

Rue Belliard 40

ncbr.gov.pl/en

zpbsp.com/en

brussels@ncbr.gov.pl



- leader in the recovery of critical raw materials
- creator of unique technologies in non-ferrous metals processing
- manufacturer of products and technologies for defense and security

R&I achievements

- successful recovery of valuable materials from electronic equipment especially REE ADIR (2015-2019) H2020
- development of innovative hydro-technologies to deal efficiently with polymetallic and complex sulphide ores INTMET (2016 – 2019) H2020
- unlocking the recovery of metals by developed innovative metallurgical technologies METGROW PLUS (2016-2020) H2020
- novel aluminium alloys with minimalised critical raw material and increased recycled material content SALEMA (2021-2023) H2020
- innovative processes to recover cobalt, copper and nickel needed in the battery industry METALLICO (2023-2026) HE
- new hydrometallurgical concept with low CO2 footprint for increased raw material efficiency in zinc production by valorising significant amounts of lead, silver and tin contained in leach residues TETALEAD (2020-2023) EIT Raw Materials
- recovery of bismuth and antimony from the residues generated during the production of copper RECOPP's (2021-2024), EIT Raw Materials
- XRT- and XRF-based copper ore pre-concentration system to boost efficiency, cut energy use, and reduce mining's environmental impact MineCuON (ongoing), EIT Raw Materials

Collaboration offers

Design and management:

- product design for optimised use of (critical) raw materials and increased quality of recycling;
- improvement of materials management of CRM, including material saving, over the entire value chain

New processes:

- development of metallurgical and processing techniques to increase metal recovery, decreasing energy consumption and improving by-products recovery;
- recovery of strategic/critical metals from difficult/thermodynamically incompatible mixes

Waste flows and standard:

- optimisation of waste flows for increased recycling, increase the knowledge on the presence of Critical Raw Materials (CRM) in complex products to improve recycling rates;
- improving the quality of recycled material by developing standards for e-waste recycling and encouraging the transition from waste to secondary raw materials;
- treatment of batteries and WEEE to maximise recovery of strategic and critical raw materials



Witold Kurylak
witold.kurylak@imn.lukasiewicz.gov.pl
Department for International Projects

cetec



Footwear and Plastics Technology Center

We are open to collaborations on projects, synergies, and knowledge sharing.

Just write to us, we are sure your idea will find a place in our center!
a.crespo@ctcalzado.org

What we do

Footwear research
Advanced materials research
Plastics sustainability and circularity research
Biotechnology research
Coordinate European projects

What we can contribute

Footwear laboratory
Plastics & Rubber laboratory
Plastics & Rubber Processing Pilot Plan
Biotechnology area

Learn more



About us

Alhama de Murcia, Spain
www.ctcalzado.org
+34 968 632 200
Find us on LinkedIn

1. Mineral Exploration and Mining

(Oulu Mining School)

Geosciences, geophysics, remote sensing, mining, blasting, extraction, responsible mining

2. Mineral Processing

(Pilot Plant for Mineral Processing)

Concentration processes, process modelling, automation

3. Metallurgy and Chemistry

(Process Metallurgy, SusChem)

Low-carbon metal production, hydrogen reduction, recovery of critical raw materials

4. Advanced Materials and Manufacturing

(NANOMO, NMR Units, FMT)

Materials design, nanostructures, characterisation, process innovations

5. Recycling and Circular Economy

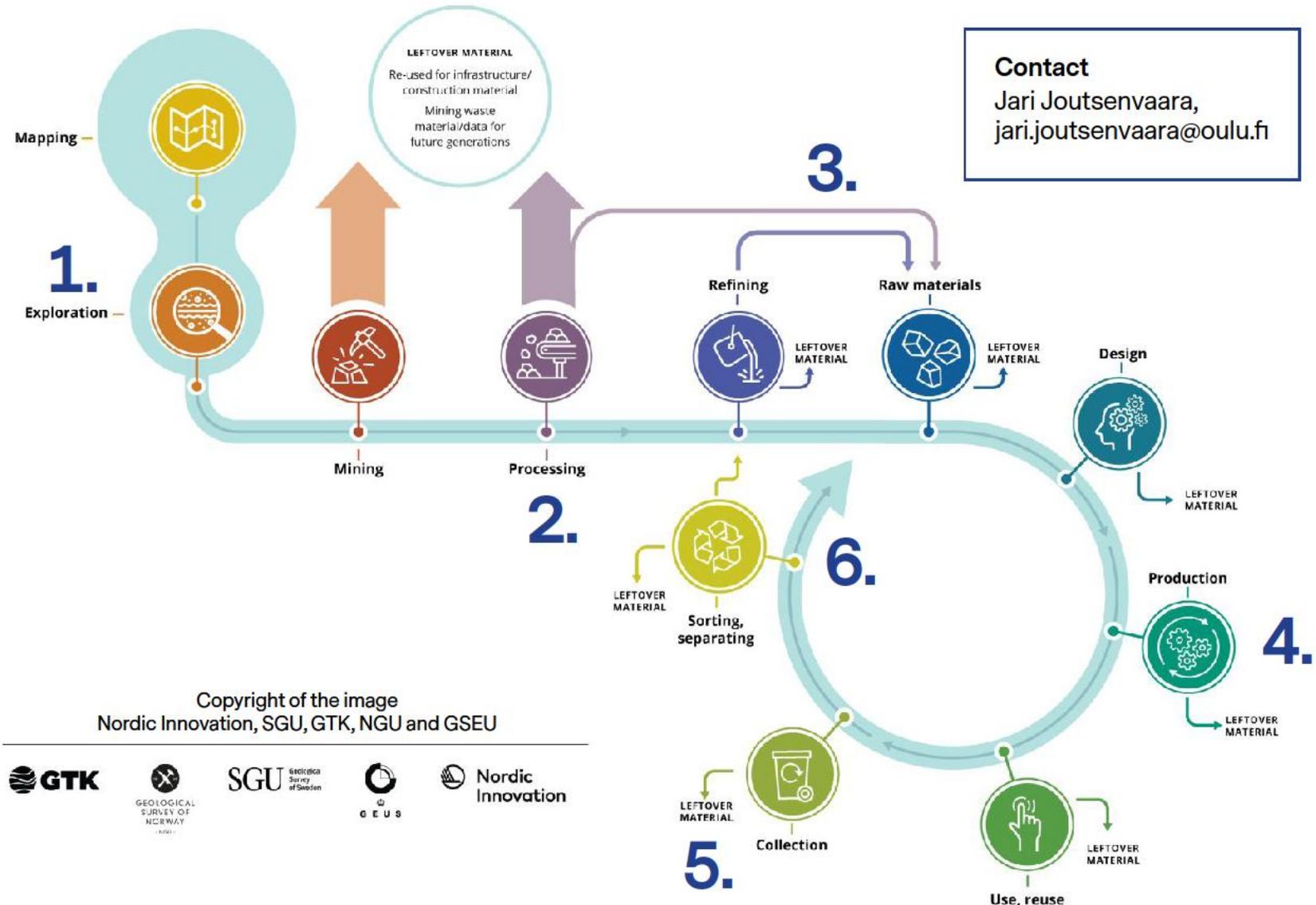
(Fibre and Particle Engineering, SusChem)

Urban mining, water purification, metal recovery from waste

6. Re-mining and Secondary Resources

(Processing, Kerttu Saalasti Institute)

Raw material recovery, secondary raw materials, sidestream, re-utilisation of closed mines, policy, socio-technical innovations as enablers

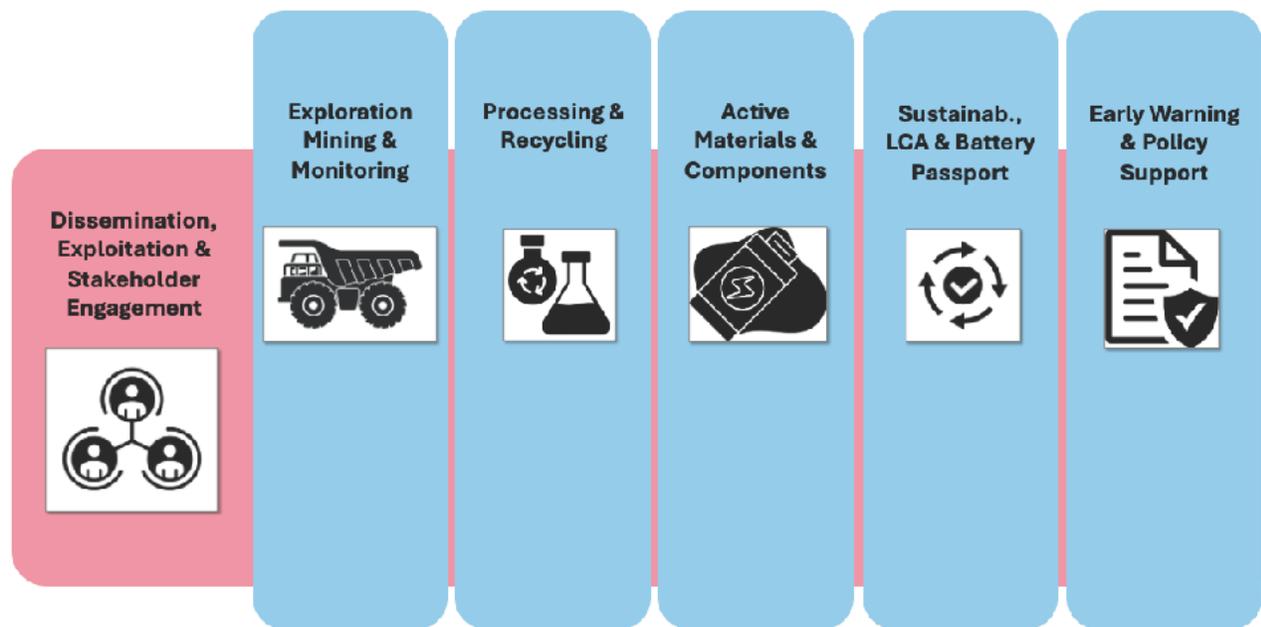


What we do

- Support Joint Research projects and funding
- Increase training programs for scientists
- Share knowledge, best practices
- Promote public awareness for Raw Materials
- Support promotion of shared infrastructure



Core R&I Expertise



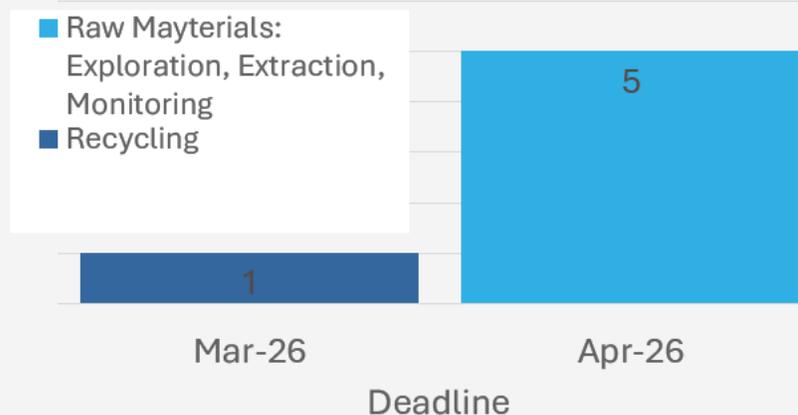
EU project as partner or advisory board member:



Green Dealing



Horizon Europe Calls





East Kazakhstan represents a strategically significant region for advancing the EU's Critical Raw Materials Act objectives. The area contains extensive secondary deposits of beryllium, titanium, vanadium, rare earth elements (La, Ce, Nd, Pr, Y), graphite, manganese, and molybdenum within more than 14 industrial waste repositories.

The existing industrial infrastructure, research capacity, and regulatory support position East Kazakhstan as an ideal demonstrator region for collaborative RIA and IA projects under Horizon Europe Cluster 4.



Horizon Europe calls submitted in 2025

HORIZON-CL4-INDUSTRY-2025-01-MATERIALS-62

- GraPEfite: GRAPHITE BATTERY ANODE MATERIAL FOR PAN EUROPEAN GREEN FUTURE THROUGH INNOVATIVE** (23 participants)
- TiBeRIUM: Titanium and Beryllium for European Resilience and Innovative Utilization of Minerals** (22 participants)

Horizon Europe Work Programme 2026-2027

- HORIZON-CL4-2026-01-MATERIALS-PRODUCTION-11: Innovative technologies and tools for exploration and data modelling of raw materials (RIA)
- HORIZON-CL4-2026-01-MATERIALS-PRODUCTION-12: Technologies for innovative extraction of critical raw materials (RIA)
- HORIZON-CL4-2026-01-MATERIALS-PRODUCTION-14: Improving availability of secondary raw materials through recycling (IA)
- HORIZON-CL4-2027-01-MATERIALS-PRODUCTION-16: Technologies for innovative processing of raw materials (IA)

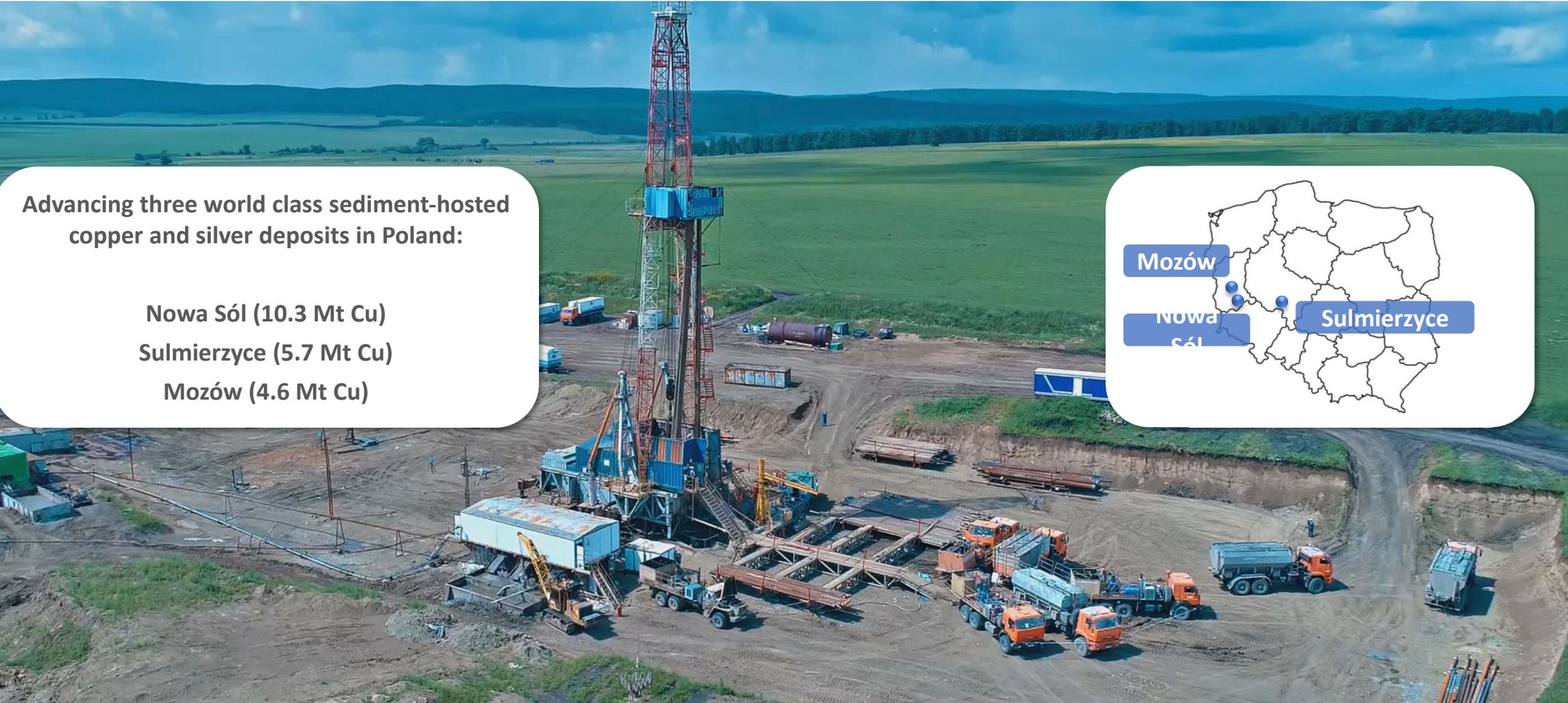
LUMINAMETALS

Advancing three world class sediment-hosted copper and silver deposits in Poland:

Nowa Sól (10.3 Mt Cu)

Sulmierzyce (5.7 Mt Cu)

Mozów (4.6 Mt Cu)



3 Multi-Generational Discoveries In An Established Mining District



European Technology Platform on Sustainable Mineral Resources



etpsmr.org



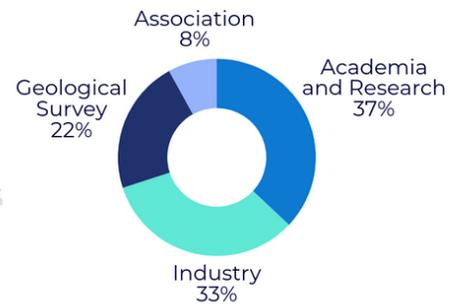
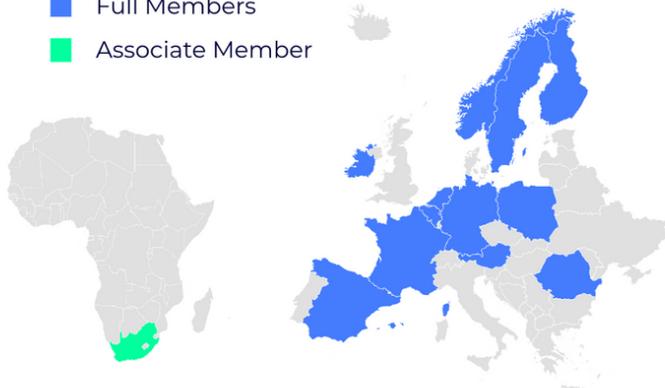
ETP SMR

About Us - Innovation for a Sustainable Mineral Supply

ETP SMR is a leading organization dedicated to ensuring a sustainable supply of mineral resources through groundbreaking research, development, and innovation. We are at the forefront of defining Europe's mineral future.

A Network Covering the Entire Raw Materials Value Chain

- Full Members
- Associate Member



Exclusive opportunities as an ETP SMR member

- Contribute to the Strategic Research and Innovation Agenda and Strategic Implementation Plan, helping to define research priorities and **influence EU funding calls and partnerships.**
- Gain significant **recognition with key decision-makers**, including the European Commission (DG GROW).
- Showcase your expertise at strategic events like **EU Raw Materials Week** and **IndTech.**
- Gain preferential access to our **exclusive network**, fostering collaboration at a European and global level.
- Contribute to **impactful Position Papers** that shape the industry's narrative.



For more information, connect with
Katarina Nilsson, ETP SMR President

Purpose & Objectives

RAMP supports Europe’s green and digital transition by ensuring a sustainable and resilient supply and use of raw materials.

 Committed countries (32)
 Observer countries (4)



RAMP aims to:



Build a strong, international R&I ecosystem on raw materials



Support the full value chain – from exploration to recycling



Strengthen Europe’s strategic autonomy and industrial resilience



Promote circular, sustainable and policy-relevant innovation

Expected Results & Impact:

- Needs-driven R&I projects funded across the globe
- More efficient and sustainable raw materials value chains
- Stronger links between research, policy and industry
- Increased European resilience and reduced import dependency
- Shared results through annual events and open data

Partners

54 **32**
organisations **countries**

Representing academia, industry, funding agencies and policy actors.



The Geological Surveys of Europe

Bridging Geoscience and Policy towards a Geological Service for Europe



Through Research & Innovation, our **Mineral Resources Expert Group** informs on policy and strategy addressing the sustainable supply of critical and strategic raw materials

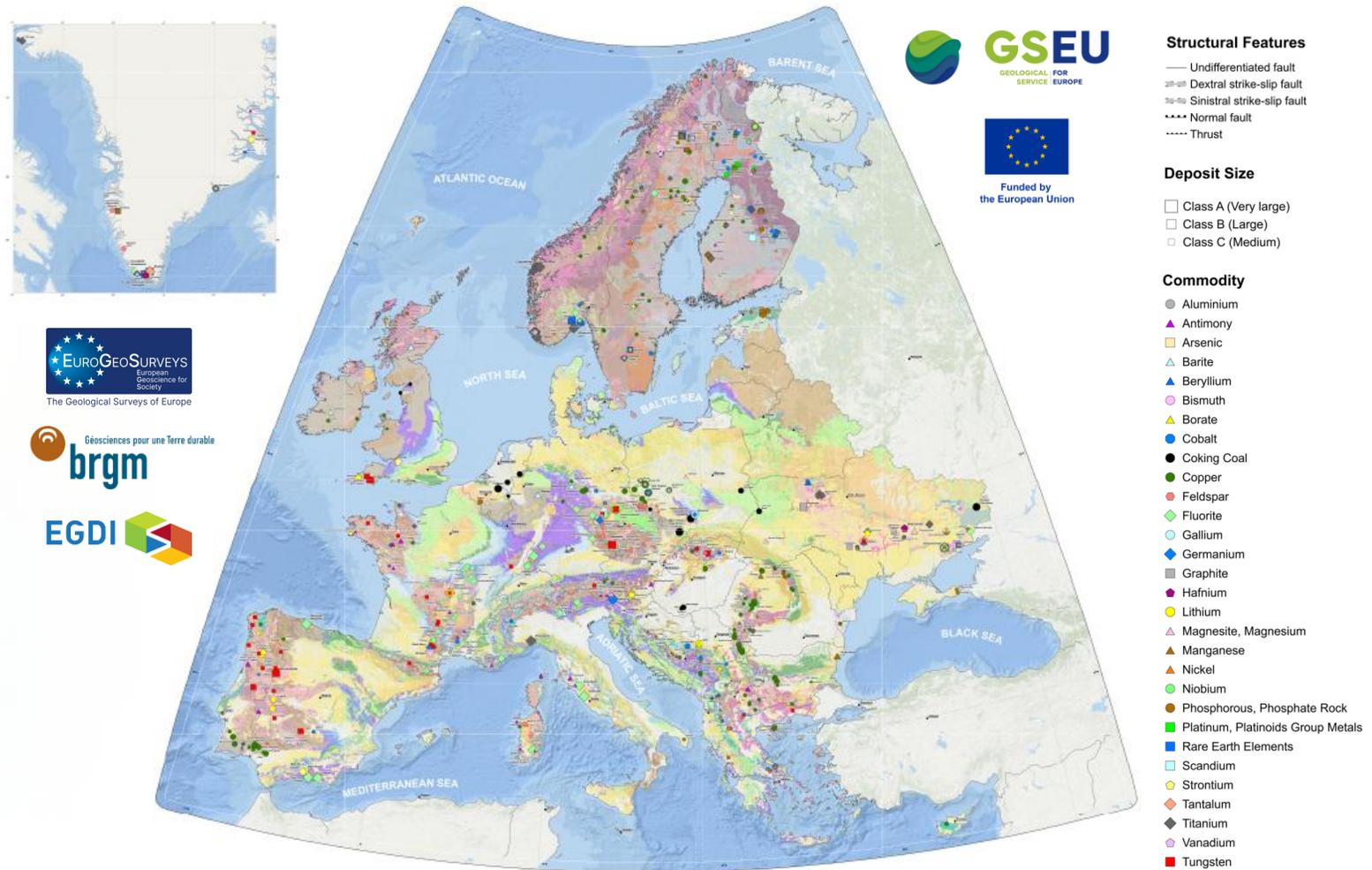


For more information, connect with Patrick Wall, Scientific Policy Manager

eurogeosurveys.org
geologicalservice.eu
europe-geology.eu

CRITICAL RAW MATERIALS HARD ROCK DEPOSITS OF EUROPE

A flagship result of our Geological Service for Europe (GSEU) project



Funded by the European Union

Impacting sustainable development at scale with data, integrated analysis, and strategic outreach

TRANSFORMATIONS

Low-carbon Economy

Energy Transitions

Power Markets

Industrial Sustainability

Sustainable Livelihoods

QUALITY OF LIFE

Clean Air

Sustainable Water

Sustainable Food Systems

Sustainable Cooling

Sustainable Mobility

ENABLERS

Sustainable Finance

Technology Futures

Circular Economy

Climate Resilience

International Cooperation

380+

Multidisciplinary team

510+

Peer-reviewed publications

650+

Convenings

400 million+

Lives impacted

11

Union ministries supported

20+

State governments supported

SPECIAL INITIATIVES

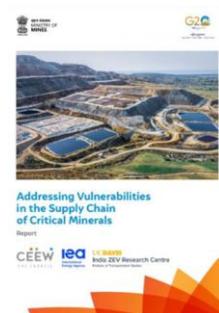
CEEW Green Finance Centre

Powering Livelihoods

Emerging Economies

UP State Office

Our latest
PUBLICATIONS



CONTACT

Rishabh Jain

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Sunil Kumar

Email: sunil.kumar@ceew.in

SCAN the QR code for our **WEBSITE**



Or, VISIT: <https://www.ceew.in/>



Advancing EU excellence in rare earth elements and permanent magnets



remhub-project



remhub-project.eu

4 year project

16 M€ EU Grant

6 countries

24 partners

- 1) Secure Europe's access to rare earths and permanent magnets by developing new technologies for REE exploration, refining and permanent magnets production
- 2) Reduce waste and dependency by secondary sourcing of REEs and permanent magnets from side streams and end-of-life products
- 3) Support circular design for the development of permanent magnets and electric motors using Re-X methodologies
- 4) Enable transparency and recyclability through geo-traceability and digital twins
- 5) Strengthen EU resilience by developing a platform to scale industrial access to innovations, technologies, and services in the REE and PM sectors

AGEMERA in Brief



agemera.eu



AGEMERA EU Project



AGEMERA EU Project



@agemera_eu



Coordinator

Jari.Joutsenvaara@oulu.fi



Years (2022-2025)



20 partners across
11 countries



Funded by Horizon
Europe



Horizon Europe Technology
Success Story 2024

MAIN OUTCOMES

1. Enhanced **models for mineral exploration**
2. Non-invasive **geophysical methodologies**
3. AI-driven **data integration platforms**
4. **Tools** to evaluate and address community acceptance of mining
5. **Educational resources** to support sustainability awareness

Target sites
and regions



SUPPORTING SMEs IN THE DEVELOPMENT IN ACCORDANCE WITH CIRCULAR ECONOMY - SPIN PROJECT IN POLAND

INTRODUCTION

The implementation of the circular economy (CE) idea is a chance to minimize the consumption of raw materials, energy, CO2 emissions and waste generation. New business models in line with the CE concept may create new opportunities for companies, but their implementation is hampered by a number of barriers that mainly affect small and medium-sized enterprises (SMEs). Experts indicate that the biggest one is the low awareness of market participants - both entrepreneurs (producers) and consumers, and the lack of specialist knowledge (competence gap). In order to effectively eliminate barriers to the development of CE, an appropriate system of incentives is necessary, including competence and financial support for companies. The results of the survey addressed to 1,200 industrial enterprises from Malopolska Region showed that more than half of the companies (57%) took actions in accordance with the CE rules, but only 7% of them have a strategy or program directly related, and in the case of 11%, such activities are included in other documents. Another 30% of companies need additional knowledge in this area.

SPIN is an example of a project supporting SMEs from the Malopolska Region on their way to innovation and transformation in accordance with the "Malopolska 2030" Regional Development Strategy (Figure 1). - <https://www.spin.malopolska.pl/>

SPIN MALOPOLSKA KNOWLEDGE TRANSFER CENTERS



- The pre-audit (obligatory)** covers overall performance of the company and includes:
 - expert consultations,
 - external risk assessment,
 - verification of methods and tools used,
 - assistance in establishing R&D business contacts,
 - analysis of international markets,
 - patent analysis and review of the latest technological solutions,
 - individual industry consultations, opinions on innovation.
- In-depth technological audit**, assessing the entrepreneur's potential and environment, includes:
 - verification of the company's areas of operation, the demand for innovations with an indication of potential solutions and their sources,
 - verification of new trends, innovations, technologies,
 - consultation with entrepreneurs - development of a consultation program with an analysis of the needs, technologies used and company development strategies,
 - development of new innovative technological solutions of the company.
- Advisory services in the field of technology transfer** includes:
 - searching and establishing business contacts in the country and abroad,
 - consulting in the process of applying for support in the form of vouchers for innovations,
 - supporting development of applications,
 - preparing offers and inquiries in the field of R&D,
 - consulting in the process of negotiating and concluding contracts in the field of R&D.

Figure 2. Services offered to SMEs within SPIN project

Regional Development Strategy "Malopolska 2030"

Raising the awareness of entrepreneurs and residents about the benefits of the widest possible use of CE

Preparation of HR for CE implementation, in particular at the design (ecodesign) stage resulting in the highest environmental impact

Taking action to use products and raw materials more efficiently - designing products so that they can be recycled or reused



Source:
https://www.malopolska.pl/_userfiles/uploads/IMP...Malopolska_2030_SRW_cz-II__EN__v052__INTERNET.pdf

Figure 1. Main CE challenges in Malopolska

KNOWLEDGE TRANSFER CENTERS IN MALOPOLSKA REGION

Knowledge Transfer Centers provide pro-innovation services for entrepreneurs within SPIN project, focusing on selected sectors indicated in the Developed Regional Innovation Strategy for the Malopolska Voivodship 2020 and being part of Malopolska's Regional Smart Specializations (RIS).

Joint activities with MEERI and the use of marketing tools allowed the company to enter the market - the first cooperation proposals appeared, encouraging the company to plan the implementation of the new solution (Figure 2). <https://min-pan.krakow.pl/zaklady-i-pracownie/en/zaklady/zaklad-gospodarki-o-obiegu-zamknietym/>

Empowering Future Leaders for Social License to Operate in the Raw Materials Industry — The PRO-SLO Story

Securing the Future of Raw Materials

The aim of the PRO-SLO project is to bridge the gap between RM operations and economic, social and ethical discourse and to provide the RM industry with future leaders for Social Licence to Operate (SLO) issues by training PhD students to master the complex SLO process, and act as ambassadors for the RM industry.

It's core is a unique alliance of SLO experts from all sides of the knowledge triangle who will develop and deliver the school. The project incorporates innovative teaching/learning methods, supplemented with field excursions, behavioral-experiments and challenge based assessments to ensure participant competence. The target audience is PhD candidates. Mentors from industry will aid informal/formal learning exchange.



Lecture Topics (based on state-of-the-art research)

- » Concept and definition of SLO (Social Licence to Operate) and its significance in the RM Industries....
- » Future Trends and Issues – emerging challenges and opportunities in SLO
- » Normative Ethics – grounds to understand social/political discourse
- » Community Relations & Development – case studies: successful community engagement initiatives
- » Cross-Cultural Collaboration – fostering collaboration across diverse cultural & social contexts
- » Sustainability & the Circular Economy – business models
- » Environmental, Social, and Governance (ESG) – reporting (what & how)
- » Risk Management and Resilience – identify & mitigate social/environmental risks; crisis communication
- » How to communicate effectively – stakeholder analysis & management
- » Social research methodologies – acquiring sources of information

PRO-SLO PhD School

2nd PRO-SLO PhD School – CALL FOR STUDENTS IS OPEN!
From the **4th of November to the 15th of December 2025**, students can apply for participation from the web

<https://www.proslo.eu/>

The 2026 School edition comprises an online part, from **9th to 13th of February 2026**, with lectures on the basic SLO principles and terminology from various perspectives, such as policy, societal, ethical and environmental and SLO examples related to the Raw Materials sector. During the onsite part, from the **19th to the 24th of April 2026**, to be held in Kassandra Mines of Hellas Gold S.A in Greece, students will interact with stakeholders to develop a methodology to obtain SLO, with the support of academic and industry mentors. Between the two parts, in the interval period, from the **23rd of February to the 27th of March**, students will work in groups and will be assigned with an SLO-related project with frequent online mentorship meetings.



PRO-SLO project

Purpose and broader context The PRO-SLO PhD school is designed to address the significant gap in the Raw Materials sector's approach to Social Licence to Operate. It is a specialized PhD education program that equips future leaders with the skills to handle SLO challenges effectively. The PRO-SLO PhD school's purpose is to foster a deep understanding of societal, ethical, and environmental issues related to development of raw materials, thereby contributing to more sustainable and socially responsible practices in the industry.

Partners:

AGH University of Science and Technology (AGH)
HELLAS GOLD S.A.
Luleå University of Technology (LTU)
Mineral and Energy Economy Research Institute of the Polish Academy of Sciences, MEERI PAS
Montanuniversität Leoben (MUL) - Project Coordinator
National Technical University of Athens (NTUA)
Technische Universitaet Graz (TUG)
Technische Universität Bergakademie Freiberg (TUBAF)
Universidad Politecnica de Madrid (UPM)
University of Zagreb – Faculty of Mining, Geology and

Supported by



Social License to Operate

Social Licence to Operates the ongoing acceptance or approval that organisations, industries and companies receive from communities and stakeholders regarding their standard business practices and operating procedures.

SLO is created and maintained slowly over time, as a company builds trust of the community it operates in. Building a social licence involves long-term relationship building with stakeholders, through open dialogue, transparency, responsiveness to concerns, and a visible commitment to fairness and sustainability as the key elements. Trust is earned gradually and must be maintained through consistent behaviour and engagement.

The main goal of the project is to develop the structure and content of advisory materials that will provide targeted expert support for companies and stakeholders who need assistance in addressing challenges related to the concept of the SLO.

The hub will provide industries with specialized information on new technologies that improve environmental performance and enable transparent environmental monitoring, as well as on guidelines and regulatory frameworks (including ESG proposals for SMEs) and examples of best practices from various international contexts.



The main goal of the project

The aim of RM SLO PLUS HUB is to establish a dedicated Hub to develop training and consulting tools, equipping stakeholders with best practices for community engagement and fostering sustainable RM operations with responsible industry dialogue.

With the critical importance of raw materials for Europe's digital and green transition, the project seeks to bridge gaps between RM operations and societal expectations through education, consulting, and networking.

The Hub focuses on fostering SLO by equipping stakeholders – companies, academia, policy makers, communities, and NGOs with knowledge and tools to enhance transparency, trust, and responsible RM practices. It will create a centralized repository for SLO best practices, offer training programs tailored to diverse stakeholders across the RM life-cycle, and establish consulting services for effective stakeholder engagement and compliance.

SLO finds its base in the “triple bottom line”, - social issues, environmental goals and corporate profits.

Education for sustainable social dialogue in the raw materials sector includes four complementary components:

Cognitive – integration of geological, environmental, economic, and legal knowledge.

Communicative – development of mediation, negotiation, and deliberation skills.

Ethical and social – internalization of the values of social responsibility and intergenerational solidarity.

Participatory – inclusion of various stakeholder groups in consultation and decision-making processes.



<https://slohub.org/>

Partners:

Coordinator --The National Technical University of Athens, School of Mining and Metallurgical Engineering (NTUA, SMEE),
MUL, KAMK, UNIBL, UPM, MEERI, PASECO, ANEFA, ISMC

Supported by





Life Cycle Assessment of Cement Produced with Alternative Materials



Natalia Generowicz-Caba, Maciej Mańka, Agnieszka Nowaczek, Joanna Kulczycka, Maria De Lurdes Dinis, Alan Tkaczyk, Cansu Özcan Kilcan

Aim of the ValorWaste project

The mining industry is one of the largest sources of waste in Europe. In the shift toward a circular economy, mining waste and overburden can become valuable sources of raw materials, including critical ones, and be reused in various industries instead of burdening the environment.

The ValorWaste project focuses on identifying and promoting processes that enable the valorization of mining waste, overburden, and by-products by:

- characterizing these materials to determine suitable valorization pathways,
- evaluating sustainable processing and hydrometallurgical methods for raw material recovery,
- designing construction materials and chemicals incorporating these resources,
- assessing environmental impacts using life cycle assessment and hotspot analysis.

Valorization of Alternative Materials in Cement Production

The cement industry currently accounts for approximately 7–8% of global CO₂ emissions, which is primarily associated with the energy-intensive production of clinker. One of the most important ways to reduce this impact is to reduce the clinker content in cement and replace it with alternative materials (SCMs) such as fly ash, blast furnace slag, or limestone. The research conducted as part of the project focuses on a comparative analysis of LCA results for cements with mineral additives and manufacturers' EPD reports in order to identify the most beneficial solutions for sustainable cement production.

The analysis carried out as part of the ValorWaste project began with a critical review of the literature, an analysis of scientific databases, and the use of the VOSviewer tool to identify trends and research gaps. Particular attention was paid to indicators such as energy consumption, carbon footprint, and system boundaries (cradle to gate A1–A3). At the same time, data was collected from EPD reports, which enabled a comparison of the practical environmental performance of different production facilities.



<https://odrasa.com.pl/o-nas/proces-produkcji-cementu>

The graph shows the most frequently used keywords in scientific literature on cement with waste additives. Clear thematic clusters are visible – blue focuses on the mechanical properties and durability of concrete, red on environmental aspects and waste management, and green on recycling and alternative raw materials. Central concepts such as “cement,” “concrete,” “fly ash,” and “waste” indicate key research directions and their interrelationships.

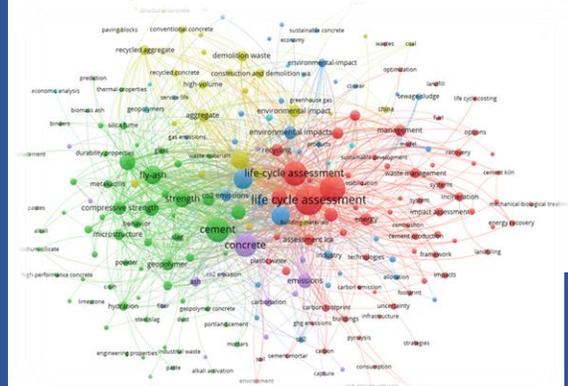


Figure. Co-occurrence graph of keywords related to LCA of cement

Results of the LCA analysis review

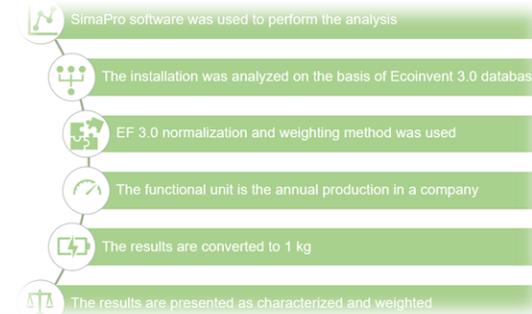
The analysis of the reviewed LCA studies reveals several key findings and trends in the development of sustainable cement production:

- Fly ash and slag are the most effective SCMs, enabling CO₂ reductions of up to 60–80%.
- Reducing clinker content is key to lowering CO₂ emissions and energy use. Blended cements (CEM II–IV) with supplementary cementitious materials are increasingly replacing CEM I due to their much lower environmental impact.
- The environmental benefits of SCMs depend on their regional availability — sourcing them close to power plants or steel mills reduces transport emissions and supports circular



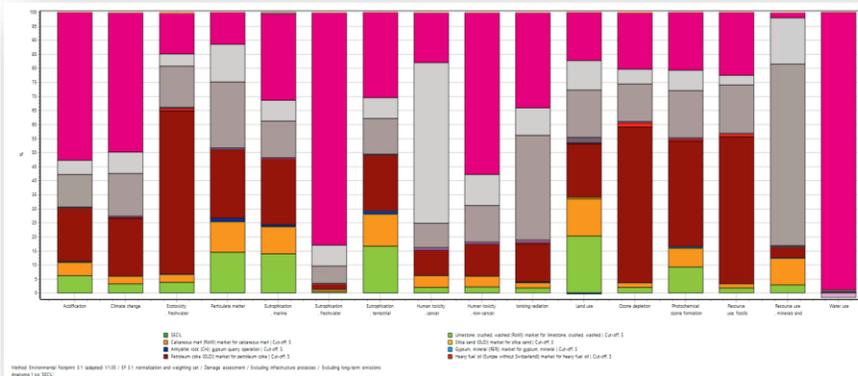
<https://www.money.pl/gielda/gus-produkcja-cementu-spadla-o-2-r-rw-sierpniu-6427910082553473a.html>

Preliminary LCA analysis in ValorWaste project



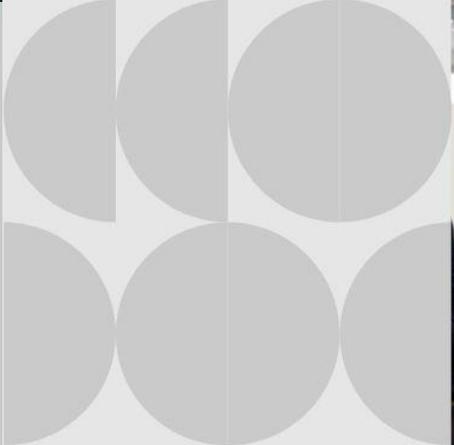
Objectives

- To identify the environmental impact of analyzed case studies using LCA, hot spot analysis and risk identification
- To assess the overall impact of the utilization of mining wastes in construction materials, using a cradle-to cradle technique
- To fulfil ESG and regulatory compliance according to LCA and planned EU strategies
- To develop a Scorecard for Regulatory Compliance Assessment



The chart presents the Life Cycle Assessment (LCA) preliminary results for a product from **Secil**, showing the percentage contribution of different raw materials and processes across various environmental impact categories (e.g., climate change, acidification, toxicity). The largest contributions in many categories come from fuel-related processes (such as heavy fuel oil and petroleum coke) as well as the extraction and preparation of mineral raw materials. This indicates that the key environmental impact areas are the use of fossil fuels and the exploitation of natural resources.



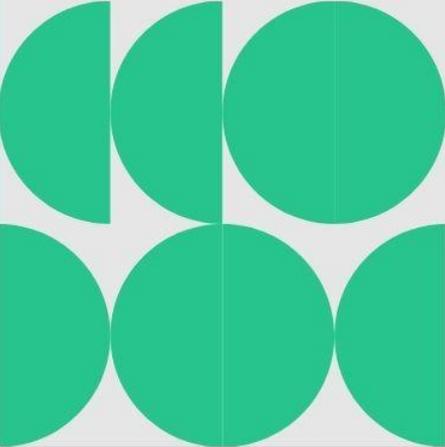


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 Institute of Non-Ferrous Metals