

Open Gallery of Sustainable Ecosystems of Innovation and Strategic Alliances

Session debrief

On June 17th, Seville hosted the Investing Forum in Raw Materials, a significant event under the 14-GREEN project. This forum brought together key stakeholders from across Europe to discuss funding and investment possibilities within the EU framework, as well as sustainable ecosystems and strategic alliances in the mining sector.

Open Gallery

A highlight of the event was the pan-EU emulation session carried at the beginning, which focused on sustainable approaches to mining. During this session, several pioneering projects presented their innovative methods:



S34I focuses on mining decarbonization, aiming to create significant social and economic impacts through the adoption of EO technologies, underscoring its commitment to sustainability.

The interdisciplinary team balances industrial and research expertise to develop new data-driven methods for analysing Earth Observation (EO) data to enhance systematic mineral exploration and continuous monitoring of mining activities. This project supports European knowledge and autonomy in raw material resources, contributing to the green transition by managing technical and environmental issues. It also aims to improve social acceptance and legislation in mining.

[S34I Website](#) / [S34I LinkedIn account](#)



RESILEX focuses on enhancing the sustainability and resilience of the raw material value chain in Europe by focusing on technological advancements and sustainable practices. It aims to demonstrate industry-driven technological and business innovations covering the entire silicon value chain. Improving the silicon value chain is crucial for the EU's resilience, as silicon is integral to various key sectors, including batteries, photovoltaic systems, and information and communication technology. Replacing silicon without compromising performance or increasing costs significantly is challenging. The goal is to strengthen the extraction and transformation of raw silicon, optimizing and recycling PV modules, and reusing silicon for lithium-ion batteries.

[RESILEX Website](#) / [RESILEX LinkedIn account](#)



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BATMASS aims to establish the first EU Circular Battery Valley, focusing on sustainability through cross-regional investments in advanced circular technologies and processes for battery materials.

The project will create a comprehensive interregional ecosystem around four demonstrators, designed to scale up, commercialize, and deploy breakthrough GreenTech innovations. By leveraging the innovation power of research and technology organizations (RTOs) and small and medium-sized enterprises (SMEs), BATMASS will accelerate the market entry and international replication of these technologies across EU regions and beyond.

Tech transfers between less developed, transition, and developed regions will structure this emerging sustainable value chain, integrating it into regional innovation ecosystems and promoting circularity in battery production and recycling.

[BATMASS Website](#) / [BATMASS LinkedIn account](#)



MADITRACE aims to enhance the reliability of critical raw material (CRM) tracking and transparency in complex supply chains. The project develops and tests independent digital and geo-based CRM traceability methods, integrating them into a certification scheme covering the entire mineral supply chain, from extraction to manufacturing and recycling. By increasing the technological readiness of experimental methods, the consortium addresses the complexity of mineral supply chains, including material processing and circular economy aspects.

This approach will help downstream industries validate their sustainability claims and comply with current and upcoming regulations, such as the EU Battery regulation and the German Supply Chain Act. A robust stakeholder process involving upstream and downstream industries, large networks, and clusters ensures the project's alignment with industrial needs and regulatory requirements.

[MADITRACE Website](#) / [MADITRACE LinkedIn account](#)



I4-GREEN showcased its strategies for sustainable mining practices, aimed at reducing EU dependence on imported Critical Raw Materials (CRMs) and their environmental impact by fostering green and circular technologies. Key sustainability initiatives include (1) the construction of an interregional ecosystems to leverage capabilities and support the green transition in mining and extractive industries, (2) the implementation of sustainable practices through advanced technologies for green and circular extraction, including re-evaluating mining waste, (3) the establishment of an interregional ecosystem for sustainable mining, demonstrating environmentally friendly processing technologies with low impact and (4) the development of two mining pilot projects implementing green technologies/techniques to boost their sustainability.

[I4-GREEN Website](#) / [I4-GREEN LinkedIn account](#)





The C-SINK project addresses the urgent need for large-scale CO₂ removal (CDR) to limit global temperature rise to under 2°C, ideally 1.5°C. C-SINK aims to create a transparent, regulated market for high-quality CDR by delivering a comprehensive package of proposals to the European Commission (EC). This includes pre-standards for sampling, testing, and quality management systems, and methodologies for monitoring, reporting, and verification. Additionally, it will address environmental, social, and governance issues, and foster market trust.

By establishing high-quality standards and a robust regulatory framework, C-SINK will encourage safe and effective CDR projects, stimulate significant investments, and support the evolution of a market to combat the climate crisis.

[C-SINK Website](#) / [C-SINK LinkedIn account](#)

The session was attended onsite by around 30 individuals representing mining associations, mining clusters, EU administrative bodies, regional administrations, foundations, financial consulting firms and companies from the mining value chain. The diverse representation underscored the wide-reaching interest and collaborative spirit within the mining sector to adopt sustainable practices and strategic partnerships.

The Investing Forum in Raw Materials event provided a platform for sharing best practices and fostering strategic alliances across Europe. The presentations and discussions during the open gallery session highlighted the commitment to drive innovation and sustainability in the mining industry and its capacity to pave the way to a green transition.



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