



Interregional investment for the sustainable supply of raw materials in the EU Green Energy Transition.

I4-GREEN is an industry-driven project wishing to deploy regional circular economy innovations in the mining processes

Enabling access to raw materials is a crucial requisite for ensuring Europe's recovery and is essential to preserve and further improve the environment and the life quality, while they are crucial to Europe's economy due to the current deep Raw Materials crisis.

I4-GREEN stemmed from an interregional innovation network and will scale into a unique interregional ecosystem, real node for the green transformation of extractive industries and the emergence of an EU sustainable mining value chain. It will generate a proof of concept for forefront sustainable and environmentally friendly processing recovery technologies, becoming a lighthouse of low environmental impact, incorporating circular economy strategies and financial support into SMEs working on securing the sustainable supply of minerals essential to meet EU resilience and Green Energy Transition.

Making mining green, circular and social through joint investments

An environmental shift requires the deployment of sustainable advanced technologies for the green and circular extraction and processing of raw materials. Besides CO₂ savings and energy efficiency, the re-evaluation of mining dumps, mining waste and tailings as potential sources of strategic materials also entails an opportunity to revive ecosystems that are (often hardly) touched by deindustrialization.



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I4-GREEN industrial pilots

I4-GREEN is industry-driven, with two pilots at its core which will deploy circular innovations to the market:

Pilot 1 – Extremadura, Spain -With the objective is to create and develop a forefront technology to recover minerals from iron mining waste, reducing environmental impact and alleviating EU dependence.

Pilot 2 - Andalusia, Spain - Will be implemented for scaling up hydrometallurgical leaching of primary sulphide minerals for the sustainable recovery of essential metals for the green transition.

Unleashing the green innovation power of EU interregional ecosystems

Not only is innovation necessary: it is needed at scale. Cohesive interregional ecosystems are necessary to build critical mass and leverage complementary capabilities to foster the green transition of EU regions facing similar challenges in mining and extractive industries.

In parallel, and within the overall I4-GREEN project, several actions will be carried out that are essential and necessary for the success of the final achievement of the entire project, and they are reflected in the scope of cascade funding actions.

In this development of actions, it is foreseen the establishment of a system of cascade funding for SMEs, for the development of innovation projects within the two industrial pilots, with the objective of establishing new interregional and inter-sectoral value chains.

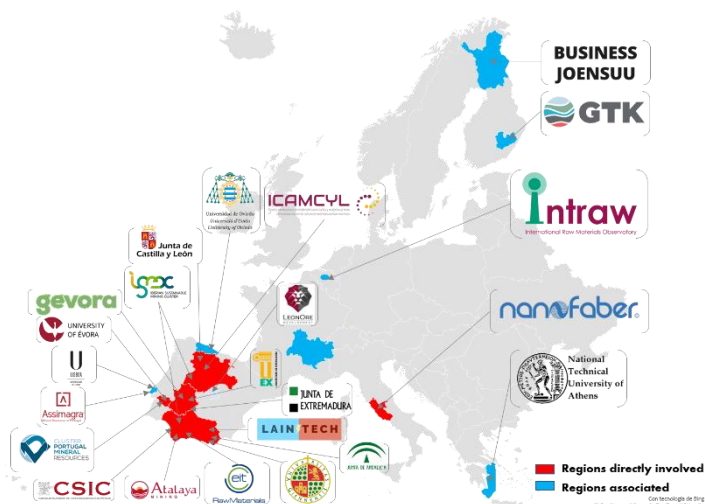
The open and competitive call will require SME-driven innovation projects to foster the inclusion of new products, processes and/or technical services in Pilot 1 and Pilot 2 projects.

For this purpose, a budget of 448.500,00 € will be financed, where up to 15 SMEs will receive up to 30.000,00 € each to develop innovation projects within the two industrial pilots.



I4-GREEN involved regions and quadruple helix ecosystem

Around these 2 pilots, an interregional system will grow organically with investors, tech partners, regional governments (which bring their own resources to I4-GREEN), and other enablers ready to align regional investments to improve green mining.



Partners	Type
ISMC Cluster	Cluster
GEVORA	Industry
NANOFABER	Industry
LEONORE	Industry
LAIN TECHNOLOGIES	Industry
ATALAYA MINING	Industry
ICAMCYL	NGO
Junta de Andalucía	Government
ACPMR cluster	Cluster
Associated partners	Type
UNIVERSITY OF OVIEDO	RTO
INTRAW	NGO
National Technical University of Athens	RTO
GTK Mintek	RTO
Business Joensuu	Industry
University of Jaen	RTO
University of Extremadura	RTO
EIT Raw Materials Andalusia Hub	EU association
CSIC-EIT Raw materials Hub-Andalusia	NGO
ASSIMAGRA	Cluster
University of Evora	RTO
Junta de Castilla y León	Government
University of Lisboa	RTO
N-ABLE	RTO
Supporting Institutions & Entities	Type
Government of Extremadura	Government
Junta de Extremadura	Government
EU Cluster Alliance	Cluster
EIT Raw Materials GmBH	EU association
AMINER	Association
S3P Mining Industry	EU association
S3P Advanced Materials for Batteries	EU association

I4-GREEN Consortium



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