








# MADITRACE

## Material and digital traceability for the certification of critical raw materials

Global commodity flows and regulatory frameworks pertaining to critical raw materials (CRMs) are high on the European economic and political agenda. Companies are also facing increased pressure to responsibly extract, process and source materials as initiatives such as the EU Battery regulation and the EU Directive on Corporate Sustainability Due Diligence come into force. This makes standardised certification schemes, transparent and secure traceability, and decentralised confidential data handling imperative.

Launched in January 2023, MaDiTraCe is a 36-month European project coordinated by BRGM (French geological survey) that aims to reinforce the transparency, traceability, and sustainability of complex supply chains of critical raw materials including cobalt, lithium, natural graphite and rare earth elements. Bringing together 14 partners from 7 countries, the project will develop and integrate technological solutions for traceability and certification into a digital product passport. These solutions will enable key industry players to prove the reliability of their sustainability claims, comply with current regulation and anticipate future policies.

## Objectives:

-  Identify gaps in current due diligence practices and assess manufacturing industry needs in respect to compliance with sustainability standards and regulation.
-  Develop and test a portfolio of digital, mineralogical and geochemical technological solutions reinforcing the transparency and traceability of complex CRM supply chains.
-  Integrate this portfolio with a generic certification scheme for CRM supply chains from the mine to the manufactured and recycled products.
-  Integrate technological solutions into digital product passports, such as the battery passport, using a decentralised approach.
-  Facilitate the uptake, implementation and exploitation of the project's technologies and certification scheme by end-users and key stakeholders.

ALFRED H KNIGHT  
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