



DINAMINE 2nd Standardization Workshop



Co-funded by
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DINAMINE

13/06/2025

The project



€12.282.837,50

BUDGET



42

MONTHS



11

PARTNERS



6

COUNTRIES

Consortium



FELMICA Minerais Industriais, S.A.



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Vision

DINAMINE will demonstrate a smart and integrated **mine management** approach of the future, including:

- Real-time **mine-to-port monitoring** of performance, risks, mine productivity and recovery rates
- **New technologies** for machine automation and robotisation

DINAMINE will identify best practices for:

- Carbon-neutral **logistics and transportation**
- More **energy-efficient processing**, and handling and reuse of mining waste

Benefits for critical raw materials production in Europe:

- Develop digitisation and automation technologies for raw materials production
- DINAMINE will be translated into commercial products and services suitable for European and global mining industry market uptake
- Contribute to sustainable, safe and more environmentally friendly production
- Share knowledge on best practices to accelerate the transition toward digitalisation in mining
- Contribute to EU Action Plan on Critical Raw Materials



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DINAMINE Standardization Task



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DINAMINE Overview of Task 6.3 – Best Practices in Mining Digitization (M25-M42)



Objective: Mapping and collection of existing and evolving standards, practices, and regulations in mining, with focus on:

- **Environment**
- **Energy**
- **Health, Safety & Environment (HSE)**

Purpose: Ensure DINAMINE technologies:

- Align with or enhance current standards
- Enable positive change and innovation
- Support data standardization and regulatory mapping

Key Activities:

- Analyze how DINAMINE tech integrates or influences standards and HSE practices
- Participate in key mining digitization frameworks (e.g., **ICMM**, **AMIRA**, **ERMA**)

DINAMINE: Data & Validation Approach



Collaboration with End Users:

Analysis of available data (used & unused)

Three focus areas:

- Define **case-specific needs/specifications**
- Identify **non-utilized data** opportunities
- Set **validation criteria** for future tech adoption

Goal: Strengthen mining digitization with data-driven insights and regulatory alignment

DINAMINE: What we have done so far...



We have requested relevant initiatives in the field of safety and monitoring standards and best practices to the EIT RAW Materials, and they shared the initiatives listed below:

- BAT (Best Available Techniques): <http://eippcb.jrc.ec.europa.eu/>
- IRMA Responsible Mining: <http://responsiblemining.net/>
- ICCM: <http://guidance.miningwithprinciples.com/> (although it is not fully working today)



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