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**Research project for the LabNET
members – idea for the common
proposal**

31.03.2025

Project Idea

ERA-LabNet

European reference materials
for recycling and **RA**w materials



Project Idea

ERA-LabNet

Necessity: growing need for high-quality, consistent analytical data due to: the Critical Raw Materials Act, decarbonisation of industry, expansion of recycling and urban mining, increasing complexity of feedstocks and secondary materials.

Problems: limited availability of Certified Reference Materials, which are expensive, often do not reflect European industrial streams, do not cover new/innovative recycling feedstocks, are not harmonised across laboratories.

ERA-LabNet may be an opportunity to solve these problems in your labs!

Project Idea

ERA-LabNet

Project Objective: to develop, characterise, certify and distribute a new line of European CRMs relevant to:

- ores, concentrates, slags
- secondary raw materials
- metallurgical by-products
- battery recycling streams (e.g., black mass)
- critical raw materials-bearing scrap
- alloy reference materials
- environmental samples linked to raw material processing

These CRMs will directly support method validation, QA/QC, accreditation, interlaboratory testing and cross-laboratory comparability.

Project Idea

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Project Structure

WP1 – Needs Assessment & Material Selection

WP2 – Material Collection & Preparation

WP3 – Characterisation Campaign

WP4 – Interlaboratory Comparison & Certification

WP5 – Documentation & Release

WP6 – Dissemination & Long-term CRM Line

Project Idea

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Key Benefits for Laboratories

Scientific & technical benefits

- High-quality CRMs co-created with the best European laboratories.
- Faster method validation and easier accreditation.
- Stronger QA/QC processes.
- Access to advanced analytical know-how from partners.
- Certified reference materials (ISO 17034) with high-quality metrological value.

Project Idea

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Key Benefits for Laboratories

Operational benefits

- Reduced CRM purchase costs through shared development.
- Support in troubleshooting and equipment calibration.
- Opportunity to expand analytical portfolios via partner labs.

Strategic benefits

- Positioning as a member of an European analytical network.
- More opportunities for joint proposals (Horizon Europe, EIT Raw Materials, national calls).
- Stronger visibility and credibility in the raw materials sector.

Thank you for your attention!

We invite you to collaborate

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