Optimizing quality of information in RAw MAterial data collection across Europe

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ORAMA has received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreement No 776517
ORAMA

- EC funding: 1,731,230 €
- Consortium: 16 partners, 14 countries
- Technical, scientific and overall coordination: GTK
- www.orama-h2020.eu
Partners

Geological Survey of Finland  British Geological Survey (NERC)
Bureau de Recherches Géologiques Geological Survey of Norway et Minières
Chalmers Tekniska Högskola Technische Universität Berlin
Geological Survey of Ireland Universiteit Leiden
EMPA - Eidgenössische Materialprüfungs- United Nations University und Forschungsanstalt
Geological Survey of Slovenia WEEE Forum
Geological Survey of Denmark and Greenland
Instituto Geológico y Minero de España
Joint Research Centre
Mining and Geological Survey of Hungary
Advisory Board

• Pan-European Reserves & Resources Reporting Committee (PERC)
• Finnish Chemical and Safety Agency (Tukes)
• Norwegian University of Science and Technology (NTNU)
• Statistics Netherlands (CBS)
• United Nations Economic Commission for Europe – Expert Group on Resource Classification (UNECE EGRC)
• EuroGeoSurveys (EGS)
ORAMA was born in an appropriate period

Relevant EU funded, (e.g. MIN-GUIDE) and national projects for PRM and SRM

Development of a joint language for raw materials

Sustainable Resource Management System

Background

• The inability to easily produce reliable statistics about reserves, resources, stocks, and flows of raw materials is a major concern for the European Commission

• **PRM**: It is currently impossible to produce reliable pan-European figures for resources for any mineral commodity

• **SRM**: lack of harmonisation; data gaps; materials end up in municipal solid waste; poorly described material flows
ORAMA: High-level objectives

• Develop a clear strategy for improving the quality of collected raw materials (RM) data, and harmonise the data collected in accordance with the INSPIRE Directive

• Ensure and extend the sharing of RM data, information and best practices in data collection at national and EU levels
ORAMA in practise

• ORAMA is not collecting new data

• It is looking for ways to improve quality, comparability and interoperability of data related to primary and secondary raw materials

• Keeping in mind: INSPIRE and further development of Raw Material Information System (RMIS)
Work packages, WP leaders

- **WP1** Data for primary mineral raw materials – **NERC-BGS**
- **WP2** Secondary raw materials – **UNU**
- **WP3** Demonstration of the applicability of the recommendations – **BRGM**
- **WP4** Sharing data and best practices – **GEUS**
- **WP5** Clustering with other projects – **WEEE FORUM**
- **WP6** Communication, Dissemination and Exploitation – **GTK**
- **WP7** Project management – **GTK**
- **WP8** Ethics requirements – **GTK**
Stakeholders
E.g. PRM & SRM data providers, policy makers, investors, statistic organizations

WP6 Communication, dissemination and exploitation

WP4 Sharing data and best practices

WP3 Demonstration of the applicability
  - Evaluation of recommendations
  - Demonstration of benefits

WP1 Primary raw materials (PRM)

WP2 Secondary raw materials (SRM)

WP5 Clustering

Advisory Board

Guidelines and training material
Workshops and webinars

Relevant EU- and national projects
Case study: from national inventory to the UNFC via CRIRSCO

Original classification

CRIRSCO - without Modifying Factors

CRIRSCO - with Modifying Factors

UNFC

Transdanubia - Hungary
Thank you
for your attention!