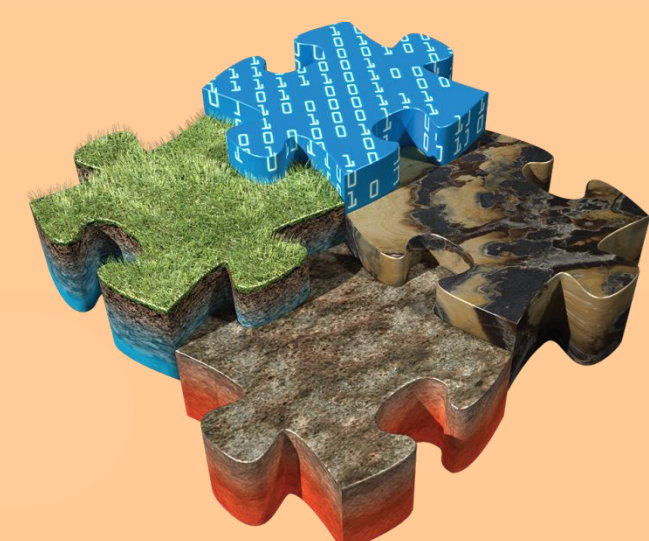




Η ΣΥΜΜΕΤΟΧΗ ΤΟΥ ΙΓΜΕ ΣΤΟ ΕΥΡΩΠΑΙΚΟ ΠΡΟΓΡΑΜΜΑ GeoERA: Θεματικό πεδίο ΠΡΩΤΕΣ ΥΛΕΣ



GeoERA

Το πρόγραμμα GeoERA: Establishing the European Geological Surveys Research Area to deliver a Geological Service for Europe (H2020 ERA-NET Cofund Action) εντάσσεται στο Σχέδιο Δράσης της Ε.Ε. για τον Ευρωπαϊκό Χώρο Έρευνας (European Research Area Policy), με σκοπό να υποστηρίξει την ελεύθερη μεταφορά ερευνητών, γνώσης και τεχνολογίας στην Ευρώπη και να συμβάλλει στην ευθυγράμμιση και συντονισμό των ερευνητικών προγραμμάτων και της χρηματοδότησης μεταξύ των κρατών-μελών (www.geoera.eu).

Αποτελείται από 4 διαφορετικά θεματικά πεδία στα ερευνητικά αντικείμενα:
Geo-Energy, Groundwater, RawMaterials (στο οποίο συμμετέχει το ΙΓΜΕ) & Information Platform. Χρηματοδοτούνται 15 έργα τριετούς διάρκειας (Ιούλιος 2018-Ιούνιος 2021) και συμμετέχουν 48 ινστιτούτα από 33 χώρες.

EuroLITHOS

EuroLithos – Ornamental Stone Resources in Europe

EuroLithos challenges: increasing replacement of traditional stone materials with «cheapest on the market»; decreasing competitiveness of SME's; reduction of cultural heritage values; increasing environmental footprints

EuroLithos concept: raising awareness and knowledge of the diversity of European ornamental stone resources, their importance to our landscapes and architecture, their quality and the environmental benefit of «short-travelled» resources

EuroLithos impact: improving cross-European knowledge sharing; improving tools for making good and sustainable choice of stone to construction projects; better competitive regime for European SME's

WP3 Atlas of European Ornamental Stones

WP4 Directory of Ornamental Stone Properties

WP5 Ornamental Stone Heritage

WP2 Dissemination, communication, stakeholders

WP6 Information Platform

Project Lead: GEOLOGICAL SURVEY OF NORWAY

WP Leads: HGI, LNEG, BGR, USGS, etc.

Partners: BGR, USGS, etc.

GeoERA

Εναρμονισμένα χωρικά και τεχνικά δεδομένα των πηγών Ευρωπαϊκών Διακοσμητικών Πετρωμάτων – Άτλαντας Διακοσμητικών Πετρωμάτων

Εκτίμηση μεταλλογενετικού δυναμικού ορυκτών αποθέσεων στον Ευρωπαϊκό υποθαλάσσιο χώρο – Διάθεση πληροφοριών για το Θαλάσσιο Χωροταξικό Σχεδιασμό

GIP: GeoInformation Platform



Ελεύθερη διάθεση εναρμονισμένων δεδομένων

MINDeSEA

Seabed Mineral Deposits in European Seas: Metallogeny and Geological Potential for Strategic and Critical Raw Materials



Approach

The overall objective of MINDeSEA is to establish the metallogenic context for different seabed mineral deposits with economic potential in the pan-European setting.

Partners



Challenge

Seafloor deposits: the most important yet least explored resource of CRM.

By 2030, 10% of the world's minerals, including cobalt, copper and zinc could come from the ocean floors.

Global annual turnover of marine mineral mining can be expected to grow from virtually nothing to €10 billion by 2030.

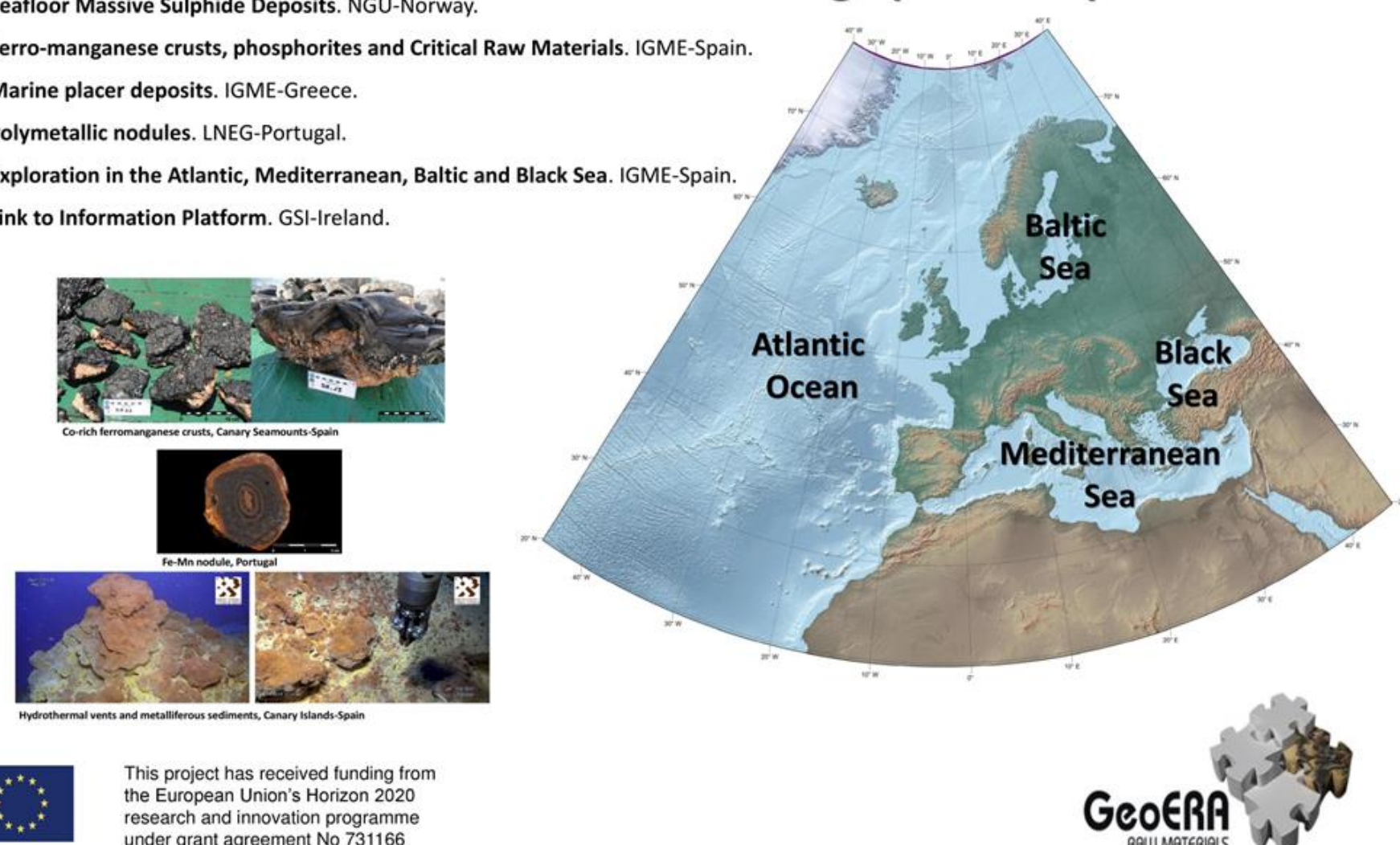
Objectives

1. Characterise deposit types;
2. Characterise the trace element content of the deposit type including CRM;
3. Identify the principal metallogenic provinces;
4. Develop harmonized mineral maps and datasets of seabed deposits incorporating GSO datasets, along with mineral-potential and prospectivity maps;
5. Demonstrate how the case study results can be used in off-shore mineral exploration;
6. Analyse present-day exploration and exploitation status in terms of regulation, legislation, environmental impacts, exploitation and future directions;
7. Demonstrate efficiency of a pan-European research approach to understanding seabed minerals and modes of exploration.

Workpackages

- WP1. Project Management and Coordination. IGME-Spain.
- WP2. Communication, Dissemination and Exploitation. IGME-Spain.
- WP3. Seafloor Massive Sulphide Deposits. NGU-Norway.
- WP4. Ferro-manganese crusts, phosphorites and Critical Raw Materials. IGME-Spain.
- WP5. Marine placer deposits. IGME-Greece.
- WP6. Polymetallic nodules. LNEG-Portugal.
- WP7. Exploration in the Atlantic, Mediterranean, Baltic and Black Sea. IGME-Spain.
- WP8. Link to Information Platform. GSI-Ireland.

Geographical Scope



FRAME

Forecasting and Assessing Europe's Strategic Raw Material Needs - FRAME

FRAME FORECASTING AND ASSESSING EUROPE'S STRATEGIC RAW MATERIALS NEEDS

Europe shows a growing and accelerating consumption of mineral commodities

Can supply meet demand? This cannot be answered with any certainty

Non-energy minerals underpin the modern economy and are essential for manufacturing and renewable "green" energy supply technologies

critical and strategic minerals and metals may be collected through recycling of mining related waste materials

even with the important contribution from recycling, it will still be necessary to extract them from primary mineral deposits, focusing on applying new technologies for deep exploration and mining, turning low-grade ores to exploitable resources and reducing generation of mining wastes and large tailings by converting them to exploitable resources

FRAME is designed to research the critical and strategic raw materials in Europe by employing sound strategies and a partner base spread far and wide amongst those that have some of these raw materials

WHY FRAME?

A SOLID, EXPERT CONSORTIUM

WP1 – Project Coordination

WP2 – Communication, Dissemination and Exploitation

WP3 – Critical and Strategic Raw Materials Map of Europe

WP4 – Critical Raw Materials in phosphate deposits, and associated black shales

WP5 – Energy Critical Elements – Lithium, Graphite, Cobalt

WP6 – Conflict free Nb-Ta for the EU

WP7 – Historical mining sites revisited

WP8 – Link to Information Platform

ALIGNMENT WITH OTHER EU INITIATIVES

THE EU LIST OF CRITICAL RAW MATERIALS

Guidelines:

SYNERGIES WITH OTHER GEOERA PROJECTS

MINTELL4EU – Mineral Intelligence for Europe

MINDeSEA - Seabed Mineral Deposits in European Seas

GeoERA

Αξιολόγηση των αναγκών της Ευρώπης στον τομέα των στρατηγικών πρώτων υλών - Αποτύπωση μεταλλευτικού δυναμικού

Βελτίωση της γνώσης για τις πρώτες ύλες στην Ευρώπη – Επικαιροποίηση της Ηλεκτρονικής Επετηρίδας Ορυκτών

Mintell4EU

Mineral Intelligence for Europe - Mintell4EU

Background

The European Union has identified **security of supply, improvement to environmental management and resource efficiency** as key challenges for the raw materials sector. Data regarding the location and spatial distribution of primary and secondary raw materials, with respect to exploration, exploitation, production and trade activities, underpin decision making in government and industry. Given the dynamic character of such data, regular updates of comprehensive, **reliable and harmonized information** across borders are required.

Aims and objectives

The overall aim of this proposal is to improve the overall EURAMIS and more specifically to deliver:

- Updating of the **European Minerals Yearbook** with production and trade data (2016-2017), and resource and reserve data as well as exploration information (reference year 2019);
- Integration of the European Minerals Yearbook in the **MINTELL4EU** platform;
- Improving the quality and spatial coverage of the Minerals Inventory, addressing harmonisation issues and facilitating interoperability with other ongoing European mineral intelligence project;
- Testing the application of the **UNFC classification system** as a tool to obtain more accurate pan-European mineral inventories;
- Recommendations of communication and interaction between already existing databases and data portals, and the **Raw Materials Information System (RMIS)**;
- Integration of the European Minerals Yearbook and Minerals Inventory in the **GeoERA Information Platform** and provide user-oriented search and visualization facilities, thereby de-facto establishing a dedicated **MINTELL4EU portal**, but also enabling interoperability of raw materials data with data on groundwater and geosurvey resources to support spatial planning and management of competing landuses.

Ambition

- Alimentation and automation of the e-Minerals Yearbook and its incorporation in the Minerals4EU database and further integration into the GeoERA Information Platform through the EGD;
- Harmonizing and homogenization of the minerals inventory;
- Reporting standards and UNFC;
- Data and knowledge delivery while keeping the existing platforms operational.

Relationship between work packages and tasks in the Mintell4EU project

WP1: Coordination and Management and Reporting

WP2: e-Minerals Yearbook

WP3: Minerals Inventory

WP4: UNFC Portal

WP5: Interaction with RMIS and GeoERA IP

WP6: Integration of a Minerals Yearbook in Mintell4EU

WP7: Production and Trade data

WP8: Resources, reserves and exploration data

WP9: Addition, improvement and QC of data

WP10: Training

WP11: Data and knowledge delivery

WP12: Reporting standards and UNFC

WP13: Data and knowledge delivery

WP14: Data and knowledge delivery

WP15: Data and knowledge delivery

WP16: Data and knowledge delivery

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GeoERA