



The Geological Surveys of Europe

EuroGeoSurveys

HORIZON 2020

Portuguese Raw Materials InfoDay

31st October 2017, 14h00 – 17h30

Agência Nacional de Inovação (Edifício O), Campus do Lumiar, Lisboa



EuroGeoSurveys – minerals and EIP / Horizon2020

Teresa PONCE de LEÃO, President of EuroGeoSurveys and LNEG

40 Years Listening to the Beat of the Earth

Topics

- EuroGeoSurveys
- EGS minerals
- EIP / Horizon2020



EuroGeoSurveys

Albania
Austria
Belgium
Bosnia &

Latvia
Lithuania
Luxembourg
The Netherlands

Success depends no longer on the secret but else on the capacity to share

ta
way
and
tugal
nania
sian
eration
bia
vakia
venia
in
eden
tzerland
aine

Kosovo
United Kingdom



EuroGeoSurveys - The Geological Surveys of Europe



MANDATE (ROLE)

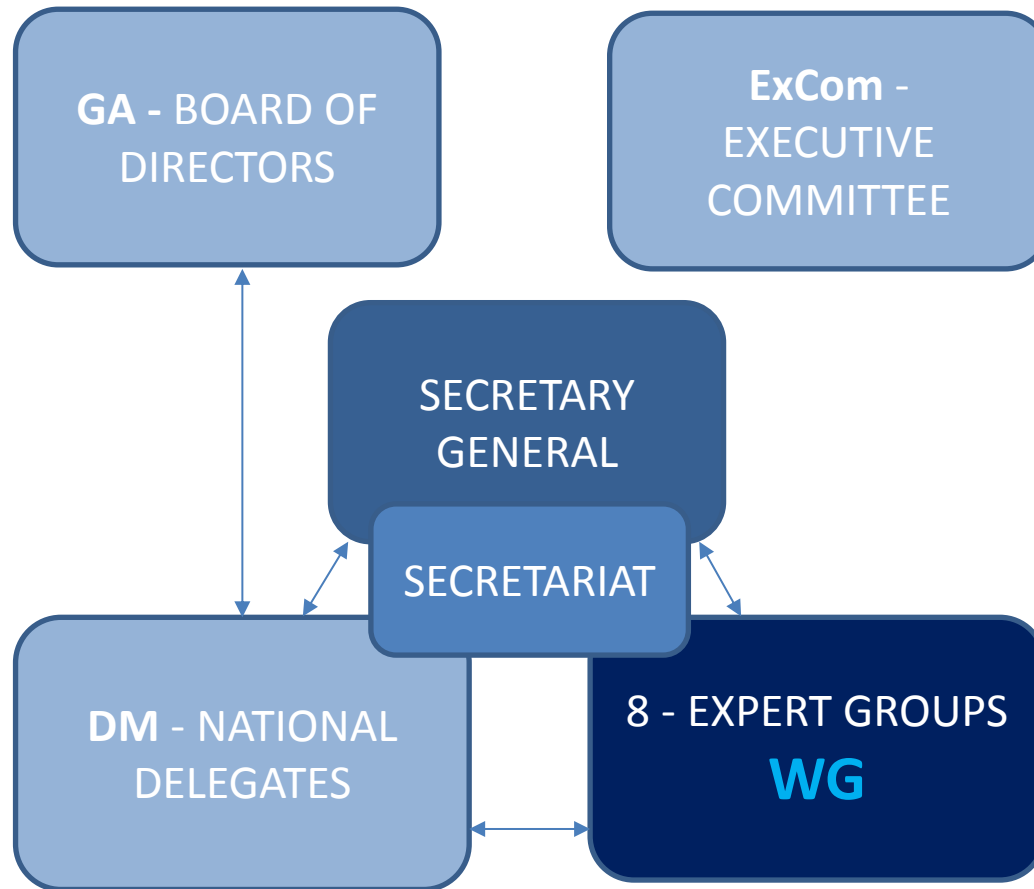
The **Geological Surveys** of Europe have the legal mandate for **data and information**:

- Collection
- Management
- Research
- Interpretation
- Delivery
- Monitoring

On land and marine subsurface



EGS Organisation



Joint Programming - WG

SPATIAL INFORMATION (INSPIRE)



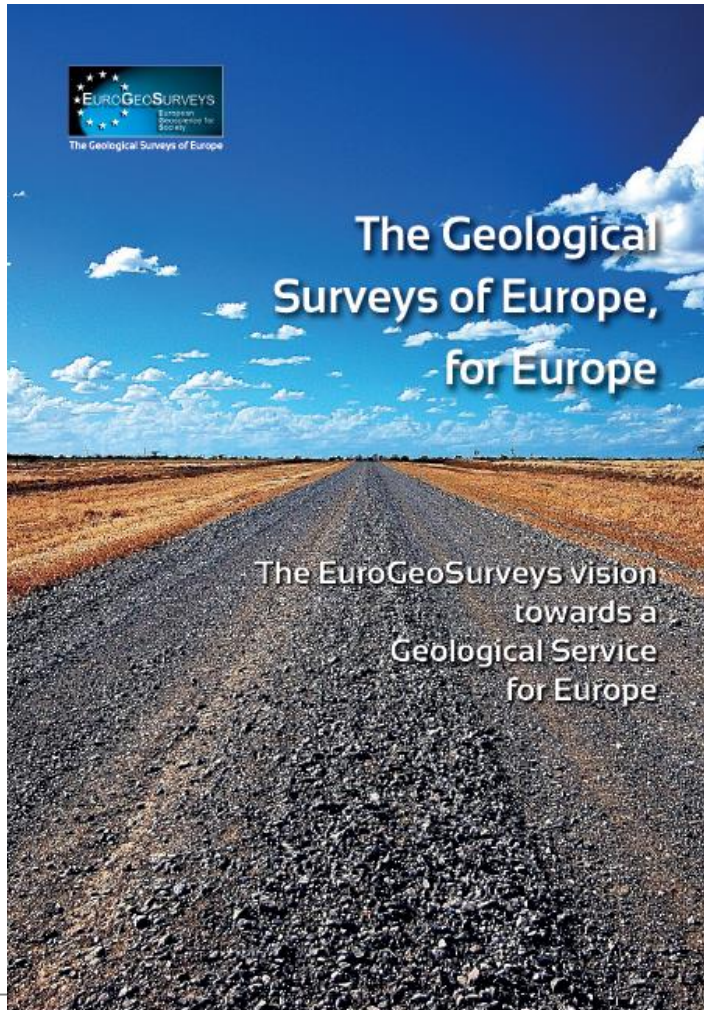
MINERAL RESOURCES



MARINE GEOLOGY



GEOENERGY



GEOCHEMISTRY



EARTH OBSERVATION AND GEOHAZARDS

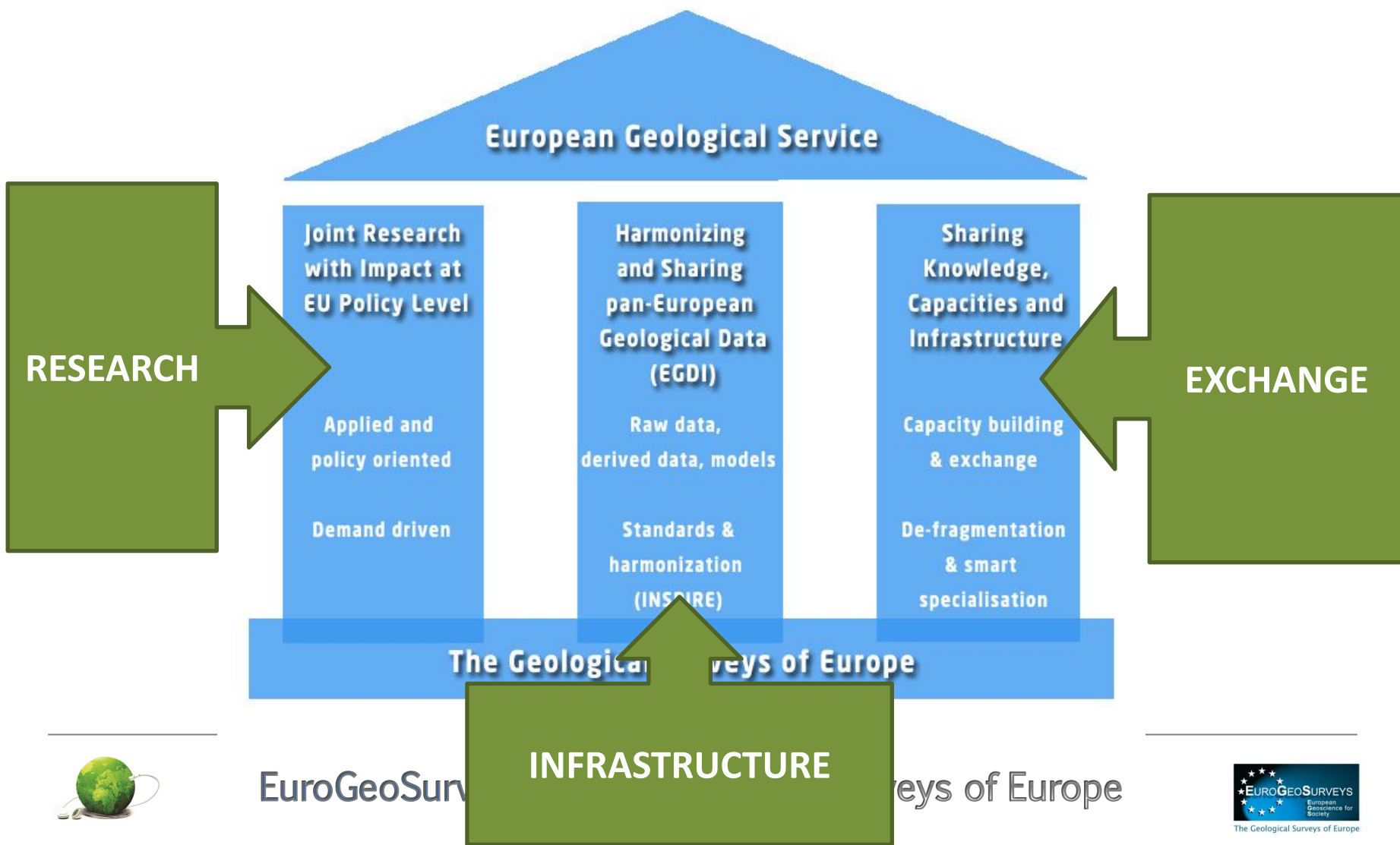


WATER RESOURCES

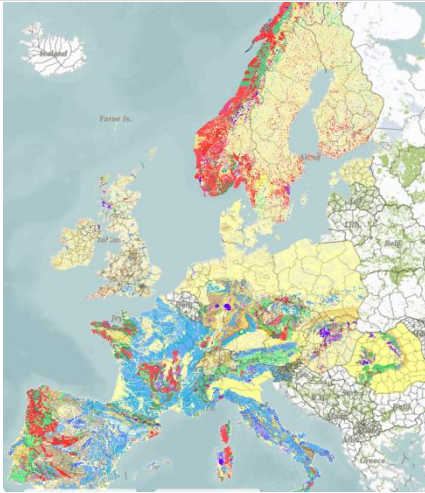


INTERNATIONAL COOPERATION AND DEVELOPMENT

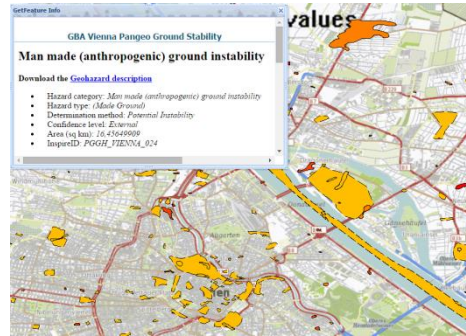
EGS Strategic Vision: towards a European Geological Service



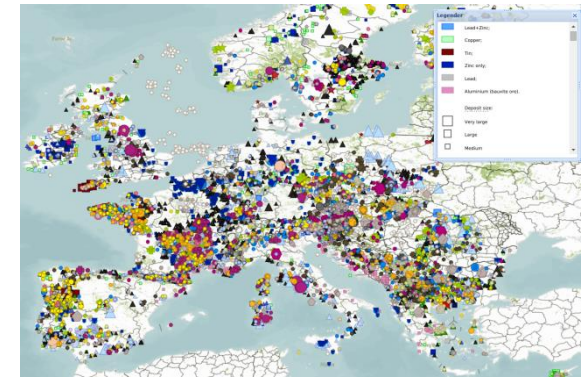
Examples



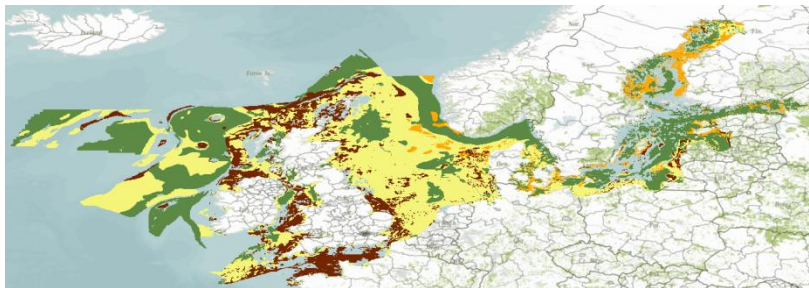
OneGeologyEurope; Surface geology of Europe in 1:1 mil. Using distributed architecture, including ISO19115 metadata and WMS/ WFS (GeoSciML) services



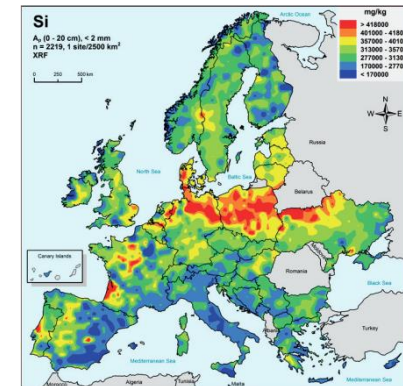
PanGeo; Ground instability assessment of major European cities using PSI data from satellite in combination with in situ data



Mineral deposits; Compiled and harmonised through a number of projects (ProMine, EuroGeoSource, Minerals4EU) using distributed architectures, ISO, OGC and CGI standards



EMODnet-geology; Marine substrate map. Currently in 1: 1 million, but aiming for 1: 250 000 covering all European waters



GEMAS; geochemical mapping of agricultural and grazing land soils of Europe




Mineral occurrences

Layer chooser

▼ Critical Raw Materials 1

Mineral occurrences

Project page:



Name:

Commodity:

Predictive map (ProMine)

► Precious Metals

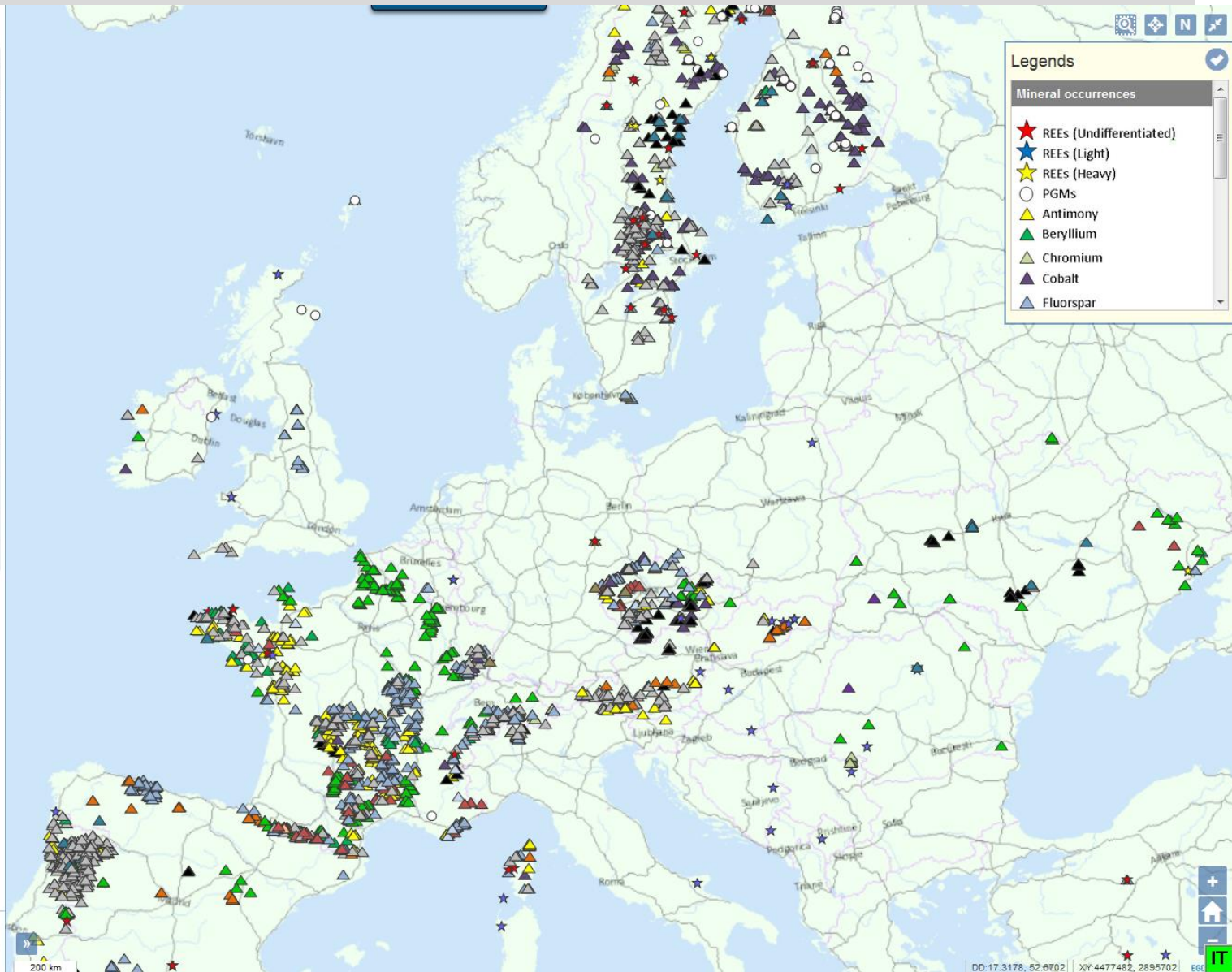
► Base Metals

► Energy Metals

► Precious Stones

Base map: OSM hosted by GEU: ▼

Optional layers: ▼



Unique pan-European datasets (mineral resources)

<http://www.minerals4eu.eu/>

MINERALS 4EU HOME DATA SEARCH MAP VIEWER **YEARBOOK**

Minerals Intelligence Network for Europe

Simplified, user-friendly and efficient access to all available and new data related to mineral resources through the EU-MKDP (European Minerals Knowledge Data Platform)

DATA SEARCH
Search into the EU-MKDP (Mineral Resources Database and Knowledge Documents) to find the best data

MAP VIEWER
View the data inside the EU-MKDP and combine them with other data to create decision support maps

MINERALS YEARBOOK
View data for primary minerals production, trade, resources and reserves; and for secondary materials

NEWS
March 9, 2015
European Minerals Yearbook pre-version available
The pre-version of the new Electronical European Minerals Yearbook is available on the EU-MKDP
September 30, 2014
EU-MKDP presentation @

MINERALS 4EU HOME DATA SEARCH MAP VIEWER **YEARBOOK**

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EUROPEAN MINERALS YEARBOOK

Welcome to the first edition of the new 'European Minerals Yearbook'!

This Yearbook contains data for primary minerals production, trade, resources and reserves; and for secondary materials it contains data for mineral-based waste generation, treatment and trade. It also contains case studies relating to the recovery of 10 commodities from key waste streams.

Please select the data you wish to view from one the following 4 options (primary minerals by country or by commodity; or secondary materials by category or case study).

We would be pleased to receive any comments you may have relating to this Yearbook, please send them to ... << contact e-mail to be inserted here >>

BY COUNTRY
Albania
VIEW

BY COMMODITY FOR PRIMARY MINERALS
Aggregates and rel.
VIEW

BY CATEGORY FOR MINERAL-BASED WASTE FLOWS
Batteries and accur.
VIEW

DATA SEARCH FOR CASE STUDIES ON COMMODITIES FROM WASTE AND OTHER YEARBOOK-RELATED DOCUMENTS
VIEW

ACKNOWLEDGEMENTS **DISCLAIMER** Copyright ©2014 Minerals4eu.eu



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Ongoing projects:

MICA

FORAM

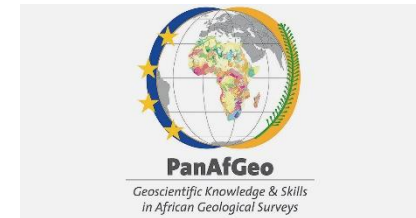
PanAfGeo

PROSUM

EGDI

GEOERA

GEOCRADLE



Future projects:

INTERMIN

MINLAND



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Estonian Presidency
of the Council of the
European Union



- Initiative by the **European minerals sector** and its related representative organisations
- EGS is a partner of the European Minerals Day
- **Sept 2017**: 10th Anniversary under the Estonian Presidency of the Council of the European Union



EuroGeoSurveys - The Geological Surveys of Europe



European Innovation Partnership on Raw Materials

EuroGeoSurveys representation:

- Member of High Level Steering Group
 - EGS President
- Sherpa group
 - Member of Mineral Resources EG
- Operational Groups
 - Several Members of Mineral Resources EG



European Innovation Partnership on Raw Materials



European Innovation Partnership on Raw Materials

Maroš Šefčovic made a statement on the need for Europe-wide approach on battery development and production in Europe

Cast iron, carbon steel

Carbon steel

Fibreglass and carbon fibers

European Innovation Partnership on Raw Materials - HLSG

- **Second term – from more EU investment to concrete actions**
 - **Monitoring**
 - **Increase visibility**
 - **Provide relevant and reliable information**

1st December HLSG will adopt a draft
position / strategy paper

Exploration oriented H2020 calls

Referência tópico	Título	Ano	Tipo de projeto	M€ por projeto	Concurso	Deadline
Call Greening the economy in line with the Sustainable Development Goals (SDGs)						
Raw Materials						
CE-SC5-06-2018	New technologies for the enhanced recovery of by-products	2018	RIA	3-7	Two-stage*	1ª fase: 27 Feb 2018 2ª fase: 4 Set 2018
CE-SC5-07-2018-2019	Raw materials innovation for the circular economy: sustainable processing, reuse, recycling and recovery schemes a) Sustainable processing and refining of primary and/or secondary raw materials (2018-2019) b) Recycling of raw materials from end-of-life products (2018-2019) c) Recycling of raw materials from buildings (2018-2019) d) Advanced sorting systems for high-performance recycling of complex end-of-life products	2018-2019	IA IA IA IA	8-13 8-13 8-13 8-13	Two-stage*	2018 1ª fase: 27 Feb 2018 2ª fase: 4 Set 2018 2019 1ª fase: 19 Feb 2019 2ª fase: 4 Set 2019
CE-SC5-07-2020	Raw materials innovation for the circular economy	2020	-	-	-	-
CE-SC5-08a-2018	Raw materials policy support actions for the circular economy - Voluntary scheme for certification of treatment facilities for key types of wastes	2018	CSA	2	Single-stage	27 Feb 2018
CE-SC5-08b-2018	Raw materials policy support actions for the circular economy - Resource efficiency in wood processing, recovery and recycling	2018	CSA	3	Single-stage	27 Feb 2018
CE-SC5-08c-2019	Raw materials policy support actions for the circular economy - Responsible sourcing of raw materials in global value chains	2019	CSA	3	Single-stage	19 Feb 2019
CE-SC5-08-2020	Raw materials policy support actions for the circular economy: expert network on Critical Raw Materials	2020	-	-	-	-
CE-SC5-08-2020	Raw materials policy support actions for the circular economy: expert network on Critical Raw Materials	2020	-	-	-	-
SC5-09a-2018	New solutions for the sustainable production of raw materials - Breakthrough concepts and solutions for sustainable exploration, mining and/or processing	2018	RIA	3-7	Two-stage*	1ª fase: 27 Feb 2018 2ª fase: 4 Set 2018
SC5-09b-2019	New solutions for the sustainable production of raw materials - Digital mine	2019	RIA	3-7	Two-stage*	1ª fase: 19 Feb 2019 2ª fase: 4 Set 2019
SC5-09c-2019	New solutions for the sustainable production of raw materials - Recovery of metals and minerals from sea resources	2019	RIA	3-7	Two-stage*	1ª fase: 19 Feb 2019 2ª fase: 4 Set 2019
SC5-10a-2019	Raw materials innovation actions: exploration and Earth observation in support of sustainable mining - Integrated exploration solutions	2019	IA	8-13	Two-stage*	1ª fase: 19 Feb 2019 2ª fase: 4 Set 2019
SC5-10b-2019	Raw materials innovation actions: exploration and Earth observation in support of sustainable mining - Services and products for the extractive industries life cycle	2019	IA	8-13	Two-stage*	1ª fase: 19 Feb 2019 2ª fase: 4 Set 2019
SC5-10-2020	Raw materials innovation actions: exploration and Earth observation in support of sustainable mining	2020	IA	-	-	-





Thank you for your
attention !

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