

EUROGEOSURVEYS

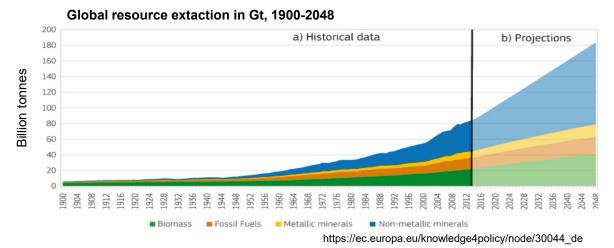


Zoltán Horváth (MBFSZ), Daniel de Oliveira (LNEG)

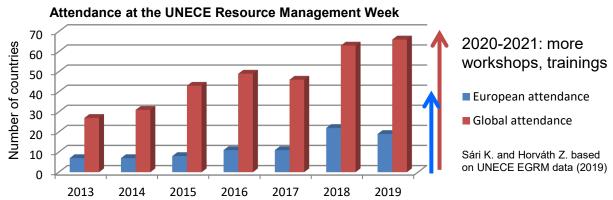
40 Years Listening to the Beat of the Earth

Introduction

 Growing need for raw materials



 Growing need for a resource management tool

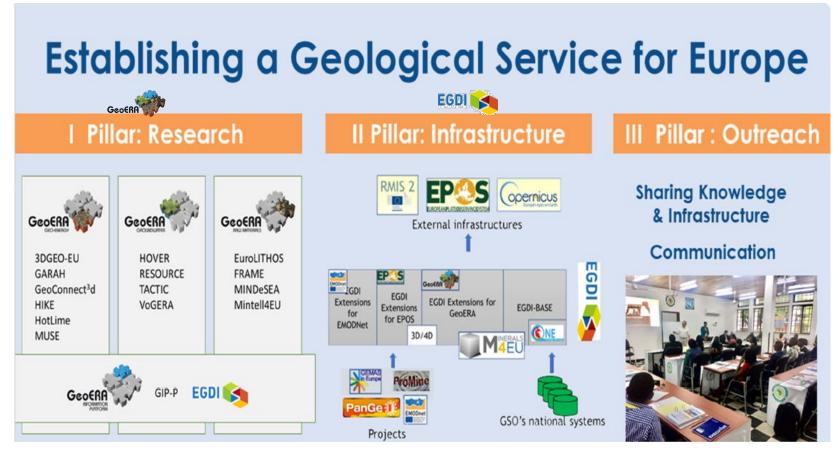


European Geological Surveys are the main data providers handling geoscientific and raw material data with statistical and spacial data and support the development and the use of UNFC





3 PILLAR STRUCTURE



By Slavko Solar (EGS Secretary General)





Activities with UNFC

 EGS MREG, GE, GW mineral resource, geoenergy, groundwater expert groups

Memorandum of Understanding between UNECE and EGS (2018-2021) will continue

 UNECE EGRM





https://www.youtube.com/watch?v=DhSNjoqp81I





https://www.unece.org/energywelcome/areas-of-work/unfc-and-sustainable-resource-management/media.html

GEOERA Program







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	Experience in the EGS	Represent			(ns: natural stone	Harmoni- zation	Guidance:
COUNTRY_NAME	MREG	ation	Mapping	Case studies	gr: grapgite m: marin, E: energy)		exist, progress, involvement)
Albania	IVIILEG	ation	Ινιαρριτις	case staures	m. mam, E. chergy)	(yes/earry	mvorvement)
Austria				aggregates, a	nthronogenic		MINTELL4EU
Belgium				phospate, limestone			MINTELL4EU
Bosnia and				priospate, mi	ies torre		WIIITTEEFTEG
Herzegovina							
Bulgaria							
Croatia				limestone, ag	gregates, ns gr		MINTELL4EU
Cyprus			developing	knowledge, intention			
Czech Republic							
Denmark				limestone, aggregates (m)			MINTELL4EU
Estonia							
Finland				gold, Co, Cu,			MINTELL4EU
France		hydro, renewables		ables			
Germany	UNFC is increasingly elevant and at the frontier of geoscience!		e.g. anthropogenic				
Greece	IINIFC I	s inclus	frontier				
Hungary	UNI	nd at th	e II.	all min. res.,	mine waste		MINTELL4EU
Iceland	elevant	ccier	ce!				
Ireland	of 9	geoscie					
Italy							
Netherlands							
Norway				Cu, Co, Phos,	agg., ns., gr, OG		MINTELL4EU
Poland							
Portugal				metallic, non	-met., E		MINTELL4EU
Romania							
Serbia and							
Montenegro							
Slovakia							
Slovenia				Limestone			MINTELL4EU
Spain							
Sweden				REE			MINTELL4EU
Switzerland							
Ukraine				graphite			MINTELL4EU
United Kingdom				ores, aggrega	tes		

Supporting documents

 Guidances, guidelines, publications to facilitate national, regional and EU-level data harmonization with UNFC







Optimizing quality of information in RAw MAterial data collection across Europe

Deliverable 1.4 Draft good practice guidelines for harmonisation of resource and reserve data

Title of the project: Optimizing quality of information in RAw MAterial

data collection across Europe - ORAMA

Grant Agreement number: 776517

Funding Scheme: H2020 - SC5-15-2017 - CSA

 Start date:
 01.12.2017

 Duration:
 24 months

Document title: Deliverable 1.4: Draft good practice guidelines for

harmonisation of resource and reserve data

Work Package:

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Eloranta (GTK) and Kari Aasly (NGU)

Date of delivery: 30/4/2

Dissemination level: PU1

<u>Link:</u> https://orama-h2020.eu/wp-content/uploads/ORAMA WP1 D

Reviewed by: EL1.4 20190430 BGS v1.0.pdf

Document location: Tilmeri: Documents / Deliverables

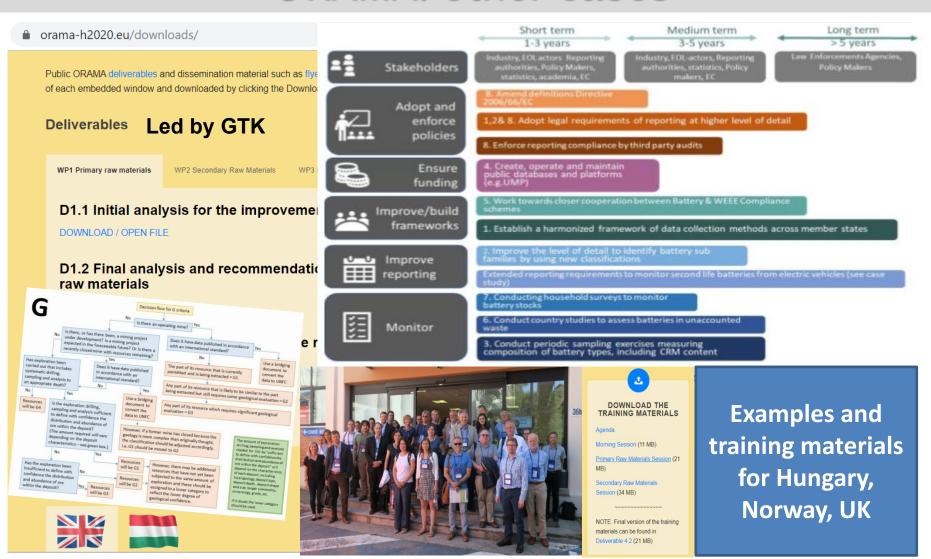
Project web site: http://www.orama-h2020.eu

...
PU=public, PP= Restricted to other programme participants (including the Commission Services), RE= Restricted to a group specified by the consortium (including the Commission Services), CO=





ORAMA: other cases

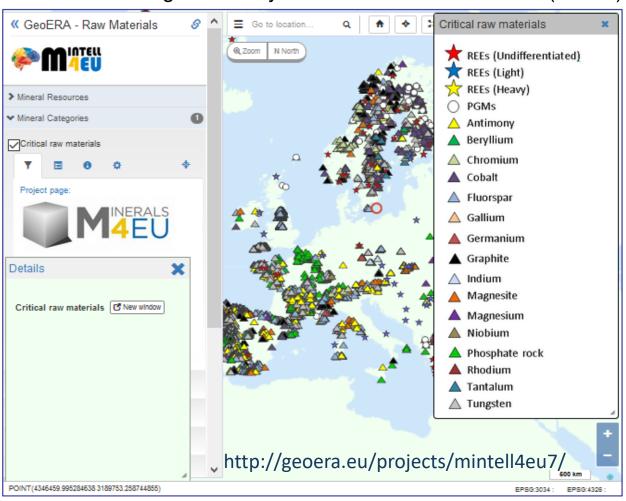






MINTELL4EU: Mineral Intelligence for Europe

Co-ordinator: Geological Survey of Denmark and Greenland (GEUS)



Aims amongs others:

- Improving the quality and spatial coverage of the Minerals Inventory;
- Testing the application of the UNFC classification system as a tool
- Recommendations for improving integration communication of existing databases and data portals, incl. Raw Materials Information System (RMIS);





CSA-GSE-ICE-UNFC in progress

International Centre of Excellence on Sustainable Resource Management

A collaborative NETWORK within GSE to

Promote and build capacity on United
Nations Framework Classification for
Resources (UNFC) for mineral
resources (primary and secondary)

support the United Nations
Resource Management System
(UNRMS) in line with the UN 2030
Agenda for Sustainable
Development

support policy on Resource
Management at national and
EU level

Baseline assessment

Methodology to fill data gaps and improve dataservice

Guidance for using UNFC in Europe

Development of EGDI with UNFC datasets and UNFC visualisation

Starting the operation of UNFC modul of the EGDI with dissemination and communication

- Production of data regarding the location and spatial distribution of PRMs and SRMs needs regular updates
- Operating infrastructure and network of data providers across Europe, collecting
- , Work on data gaps and harmonizing, disseminating and safeguarding data
- Providing INSPIRE compliance (updating of INSPIRE code lists with UNFC etc.) still needs to be elaborated.
- Implementation of UNFC as a decision making tool in exploiting and assessment of the potentials in mineral resources
- improve the Knowledge Base by extending the spatial coverage and quality of data currently in the MIN4EU database in order to efficiently support the objectives of the EU Green Deal
- Update mineral resource assessment information for the Minerals Inventory;
- Increase the degree of harmonization, communication and interaction between existing data platforms, with the ambition of reaching a fully operational and reliable database, supporting the European needs and connecting to RMIS of the EU
- Ensure future sustainability as part of the EuroGeoSurveys-governed European Geological Data Infrastructure (EGDI).
- Search synergies with the EU International Centre of Excellence on Sustainable Resource Management (UNFC)
- Strengthening the **network** with and the capability of data providers;
- Targeted visualization of data for a correct understanding of the content, interpretation of data





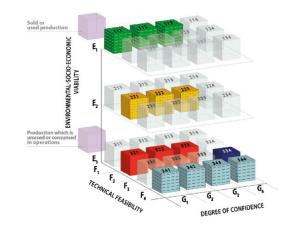
Conclusions

- Favourable time period and historical chance to strenghten co-operation between players for full implementation of the UNFC for PRM ans SRM in the frame of new EU CSA Geological Service for Europe.
- MoU between UNECE and EGS will have a streamlined period based on more experience, case studies and future program planned for 2022-2026.
- EU-projects (ORAMA2020, GEOERA program) dealing not only with minerals but geoenergy and groundwater will have stronger co-operation with building the European Geodata Infrastructure in the frame of Geological Service for Europe.
- Data and experience will be interoperable into the Raw Materials Information System (EC JRC) that will allow to compare national/regional and EU-level datasets and in global context as well for decision makings.

UNFC:

- is the only classification that can be integrated into a resource management framework
- is a tool having proper bridging between national and international reporting standards and codes
- is applicable to various types of resources
- is full accounting of resource quantities
- integrates geological data, information on feasibility, economic, environemntal-social viability.

"Alea iacta est"















wwww.eurogeosurveys.org,

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www.mbfsz.gov.hu