

# GeoERA Webinar Series



From National Geological Surveys  
To  
Geological Service for Eu/EU

What we are?  
What is ahead of us?



November 9, 2020

Zdenek Venera  
Director of Czech Geological Survey  
President of EuroGeoSurveys

# EuroGeoSurveys



Albania	Luxembourg
Austria	Malta
Belgium	Montenegro
Bosnia & Herzegovina	North Macedonia
Croatia	Norway
Cyprus	Poland
Czech Republic	Portugal
Denmark	Romania
Estonia	Russian Federation
Finland	Serbia
France	Slovakia
Germany	Slovenia
Greece	Spain
Hungary	Sweden
Ireland	Switzerland
Italy	The Netherlands
Kosovo	Ukraine
Latvia	United Kingdom
Lithuania	



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# EGS Expert Groups and Strategy

## SPATIAL INFORMATION (INSPIRE)



## MARINE GEOLOGY



## URBAN GEOLOGY



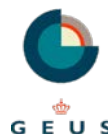
## MINERAL RESOURCES



## GEOENERGY



## WATER RESOURCES



## GEOCHEMISTRY



## GEOLOGICAL MAPPING AND MODELLING

## GEOHERITAGE

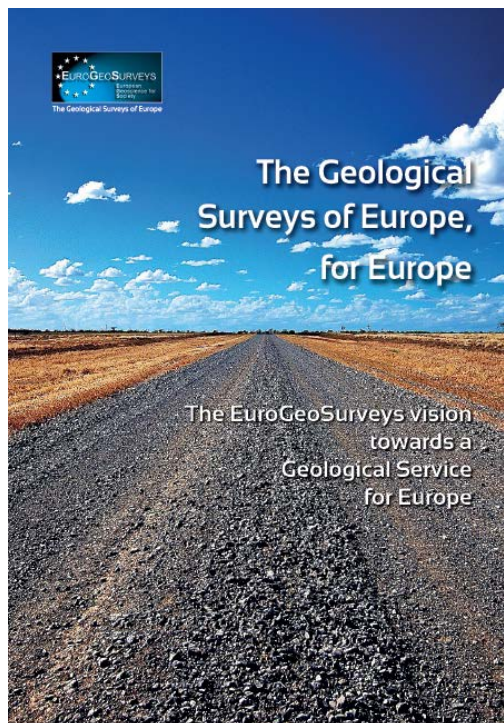
## INTERNATIONAL COOPERATION AND DEVELOPMENT



## COMMUNICATION



## EARTH OBSERVATION AND GEOHAZARDS



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# Example: EGS' Mineral Resources Expert Group

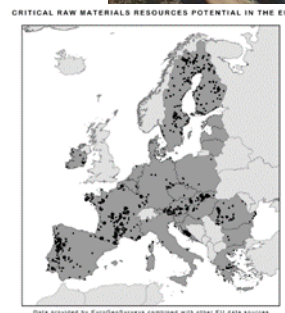
- Mission of the Mineral Resources Expert group  
... to **provide the best available mineral expertise and information** based on the knowledge base of member geological surveys, for policy, industry, communication and education purposes on European level ...
- Vision of the Mineral Resources Expert group  
... to become the leading **partner within a European mineral information network**, or other form of cooperation, that will be provide tools and expertise to support sustainable minerals supply for Europe ...

## Quick fact

- Number of Experts: 71
- Number of Surveys Represented: 33

## Activities:

- EU Raw Materials Policy (CRM 2020, EIP RM, ERMA)
- EGS Strategy (CSA + SRIA – GSE)
- EGS minerals related projects (SCRREEN2, PanAfGeo2, MDNP, II ..)
- UNECE (UNFC, EGRM)
- ...



# EuroGeoSurveys Science Topics - 2019



## EXPERT GROUP SCIENTIFIC TOPICS

2019

EuroGeoSurveys



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04 June 2019

Topics Expert Group	1	2	3
GEEG	Geothermal assessment/inventory	Energy Storage	Carbon Capture, Utilization and Storage
MREG	Minerals: inventory / assessment / classification	Exploration / undiscovered deposits	Recycling and re-use potential of mineral-based secondary resources
WREG	climate change and the water – food – energy nexus	Groundwater and the biosphere, biodiversity and ecosystem services	Data and tools to support EU and UN policy development and implementation (e.g. via EGDJ)
SIEG	European Geological Data infrastructure (EGDI)	EGDI advanced technological development	EGDI advanced data ecosystem
EOEG	Climate related geohazards	EuroGEOSS: Earth Observation of Urban Geohazards	Earth Observation for Raw Materials
GEG	Soil chemical status in EU (soils quality assessment, risk assessment)	Chemical quality of the urban and suburban environments (collaboration with UGEG)	Chemical status of European groundwater (collaboration with WREG)
MGEG	Marine network EMODNET	Marine Georesources (minerals)	Linking marine and terrestrial geology
UGEG	Modelling subsurface environment	City typologies/urbanised catchment pressures	Geoscience communication for cities and citizens



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# S R I A July - October 2020

GEOLOGICAL SERVICE FOR EUROPE

## STRATEGIC RESEARCH & INNOVATION AGENDA

Draft July 2020

By ~~EuroGeoSurveys~~

A community of European Geological Surveys from 37 countries, provides ~~public~~ public-Earth science knowledge to support the EU's competitiveness, social well-being, environmental management and international commitments.



RESOURCING  
EUROPE



CLIMATE CHANGE &  
DECARBONISATION



SAFETY, SECURITY &  
WELLBEING

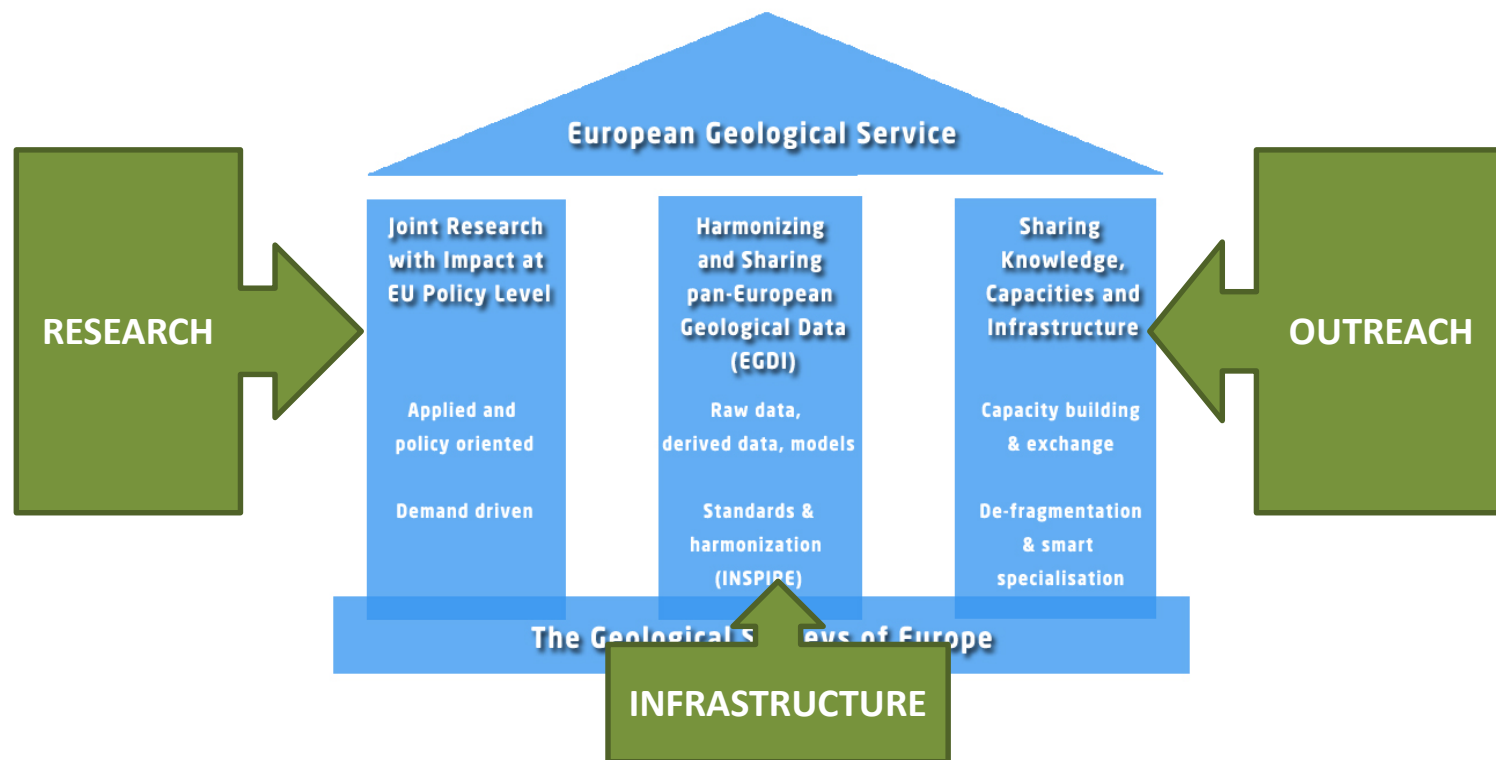


EUROPE'S DIGITAL  
TWIN



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# EUROGEOSURVEYS' STRATEGIC VISION: TOWARDS A EUROPEAN GEOLOGICAL SERVICE



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# 1. PILLAR: JOINT RESERACH



## GeoERA Projects Themes

4 GeoERA themes with in total 15 project:

- GeoEnergy: 6 projects
- Groundwater: 4 projects
- Raw Materials: 4 projects
- Information Platform: 1 project

[www.geoera.eu](http://www.geoera.eu)



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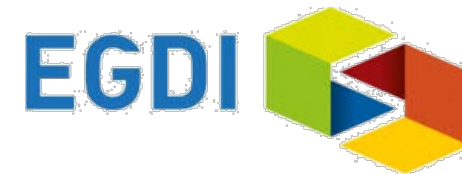
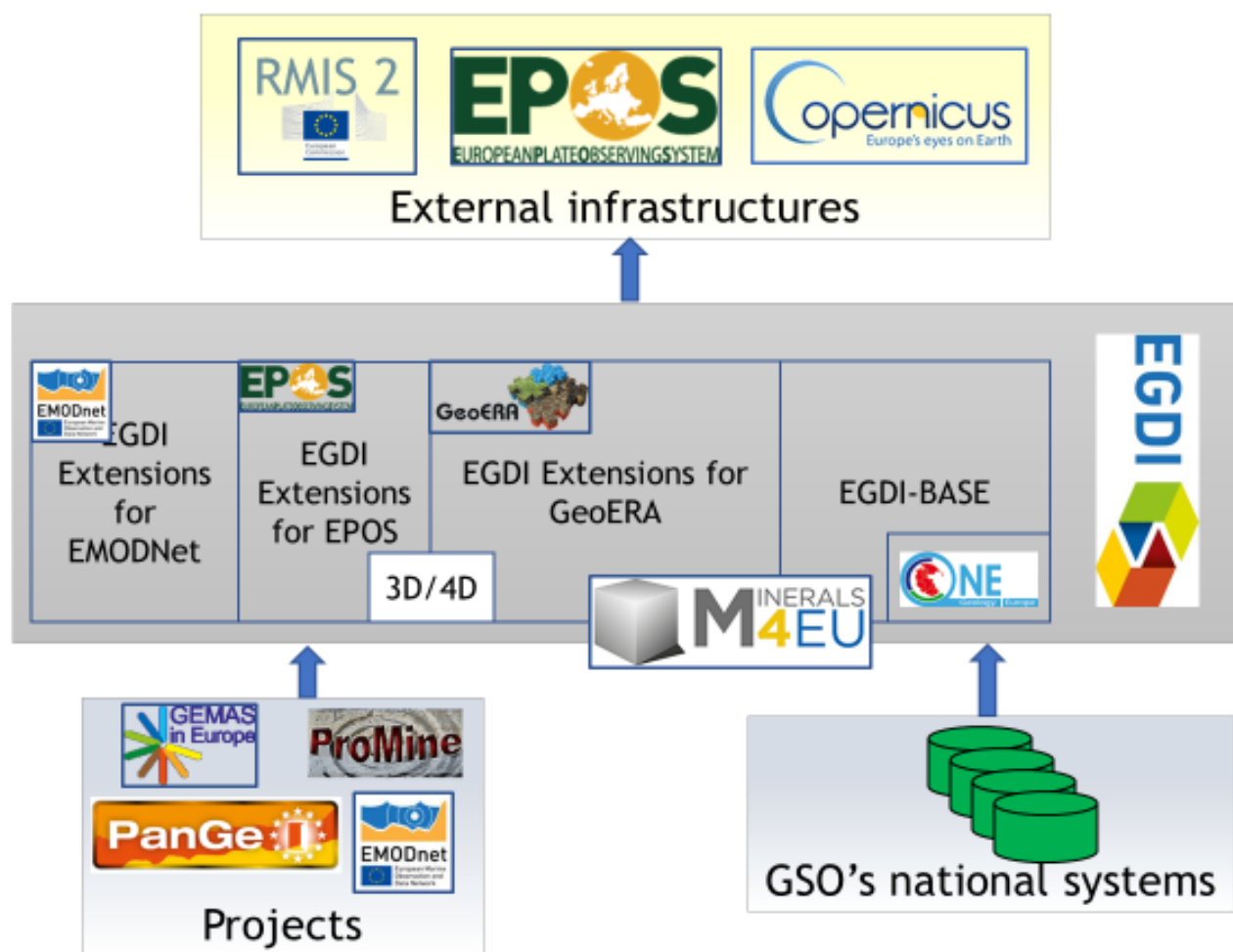


# GeoERA collaboration among GSOs



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## 2. PILLAR: INFRASTRUCTURE



[www.europe-geology.eu](http://www.europe-geology.eu)



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# INTERNATIONAL COOPERATION

## Organisations

## Projects

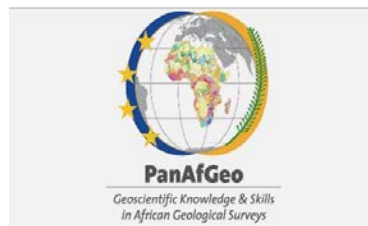


**Organisation of African Geological Surveys**  
Organisation des Services Géologiques Africains  
Organização de Serviços Geológicos Africanos



**ASGMI**  
Asociación de Servicios  
de Geología y Minería  
Iberoamericanos

- Regional (OAGS, ASGMI, CCOP, WCOGS)
- Strong GS (like USGS, GSC, ...)
- World's main organizations (UNECE, UNESCO, IUGS, UNECA, V



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# European Cooperation



...our prime client and others

- DG GROW / raw materials
- DG RTD / energy
- DG ENV / water
- DG DEVCO
- DG JRC
- DG MARE
- EuroGEO /DG RTD



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# Geological Service for Eu ? EU

- EC prime client => EU
- Components: national GSOs
  - Clear remit, competencies and responsibilities
  - Established by various legal forms: law, decree, etc.
  - Founding bodies to report to and be financed by
- None of that at EU level
- Principal motivation for collaboration
  - No frontiers in geological setting
  - Intl. collaboration - natural in geosciences
  - Archetypal win-win strategy



# Geological Service for EU

- Why working together for EC?
  - Not just about science (via FPs or ERC) but experience of GSOs to apply research and deliver expertise in geosciences applied to policy and decision making, and everyday practice of a state or regional administration
  - Hence, the ambition to provide such expertise integrated over the European continent to EC/EU
- Vision: How it could work?
  - Network organization based on GSOs with hub in BXL office
  - Beefed up secretariat with secondment of experts from member GSOs
  - National data provided by member GSOs to processed/integrated by workforce centered around EGS BXL office



# Geological Service for EU

- Vision: Financial model
  - So far, based on data, information, expertise, know-how and work power funded over decades by member states
  - This massive input to be integrated and/or harmonized – at expenses of EC
  - Current GeoERA – transitory stage, investment by member states with 30% subsidy by EC
  - Future: combined sources
  - Unique case of EC services funded not solely by EC



# Geological Service for EU

- To that point, still long way to go
- Upon us to demonstrate our expertise is vital to achieve our common European goals for future generations
- Show this is worthwhile investment
- A role model to follow: GSO essential for a government in issues of mineral resources, energy, groundwater, subsurface management and natural hazards





**Thank you for your attention !**

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