



MEET THE
GSEU
GEOLOGICAL | FOR
SERVICE | EUROPE

**Mapping & Managing
Sustainable GeoEnergy
Capacities in Europe**



Funded by
the European Union



The Geological Surveys of Europe

A G E N D A

- The Geological Service for Europe (*Francesco Pizzocolo*, TNO-GSEU)
- GeoEnergy Resources in the GSEU (*Maayke Koevoets*, TNO)
- Spotlight on Carbon Capture and Storage (*Paula Canteli*, CSIC-IGME)
- Spotlight on H₂ Underground Storage (*Serge van Gessel*, TNO)
- Spotlight on Geothermal Energy and Heat Storage (*Ignasi Herms*, ICGC)
- Q&A – Moderated by Julie Hollis (EuroGeoSurveys)

SPEAKERS



Francesco Pizzocolo
Program Manager GSEU
TNO



Maayke Koevoets
Project Manager
TNO



Ignasi Herms
Head of Geological Resources
ICGC



Julie Hollis
Secretary General
EuroGeoSurveys



Paula Canteli
R&D Geologist
CSIC-IGME



Serge van Gessel
Senior Geologist
TNO



Francesco Pizzocolo – TNO

Julie Hollis – EGS

www.geologicalservice.eu



BRINGING THE SUBSURFACE INTO THE LIGHT



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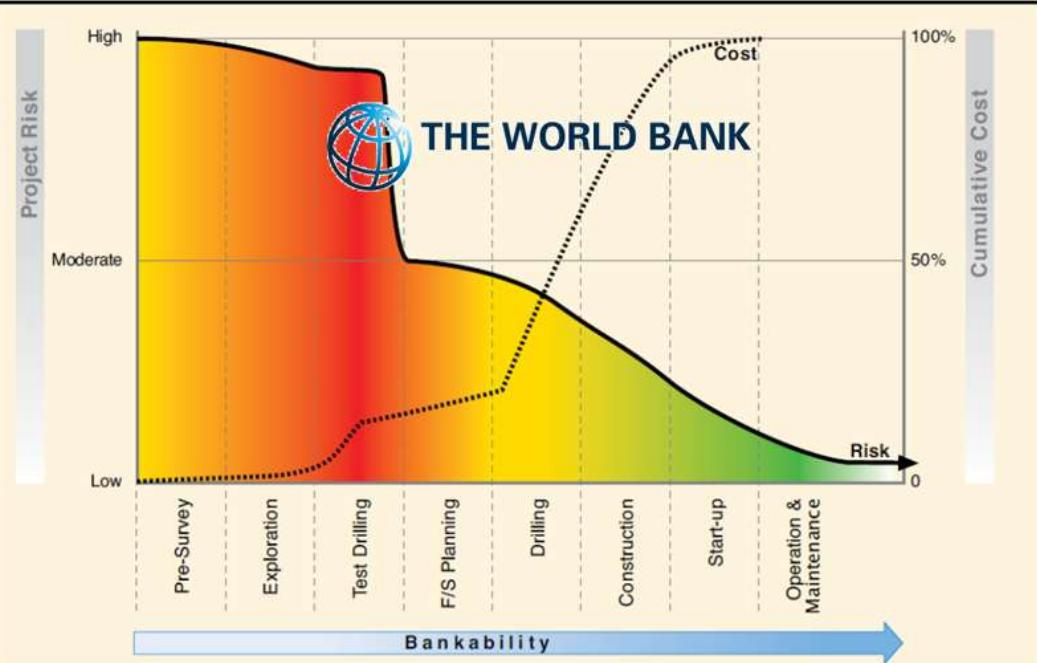


The Geological Surveys of Europe



Why a Geological Service for Europe?

FINANCIAL TIMES
EU sounds alarm on critical raw materials shortages



Forbes
We Have An Energy Storage Problem

THE WALL STREET JOURNAL.

HEARD ON THE STREET

Critical-Mineral Diplomacy Needs to Focus on Supply, Not Demand

U.S. and EU talk of collaborating to ensure energy security in the renewable age. A bigger priority should be strengthening trade links with big mining nations.

Europe's groundwater – a key resource under pressure

Europe's groundwater — a key resource under pressure

European Environment Agency



SPIEGEL International

The Global Competition for Raw Materials

Europe at Risk of Losing the Lithium Race

Without lithium, copper and rare earths, our mobile phones, electric cars and wind turbines wouldn't function. Currently we are almost exclusively dependent on China for these critical raw materials. But there might be a way out.

H KAΘΗΜΕΡΙΝΗ
 H.E. φάχνει στην Ελλάδα κρίσιμες πρώτες ύλες

Εποίκη Μυτίλενος - Κομισιόν για την παροντερική γνώση στην Βουτιά

LA TRIBUNE
 PARISIENS & ECONOMIE

Semi-conducteurs : la prochaine crise viendra-t-elle de l'accès aux métaux stratégiques ?

EL PAÍS
La falta de materias primas y la competencia de EE UU amenazan la producción europea de baterías



There is a Critical Need for
High-Quality Subsurface Data!



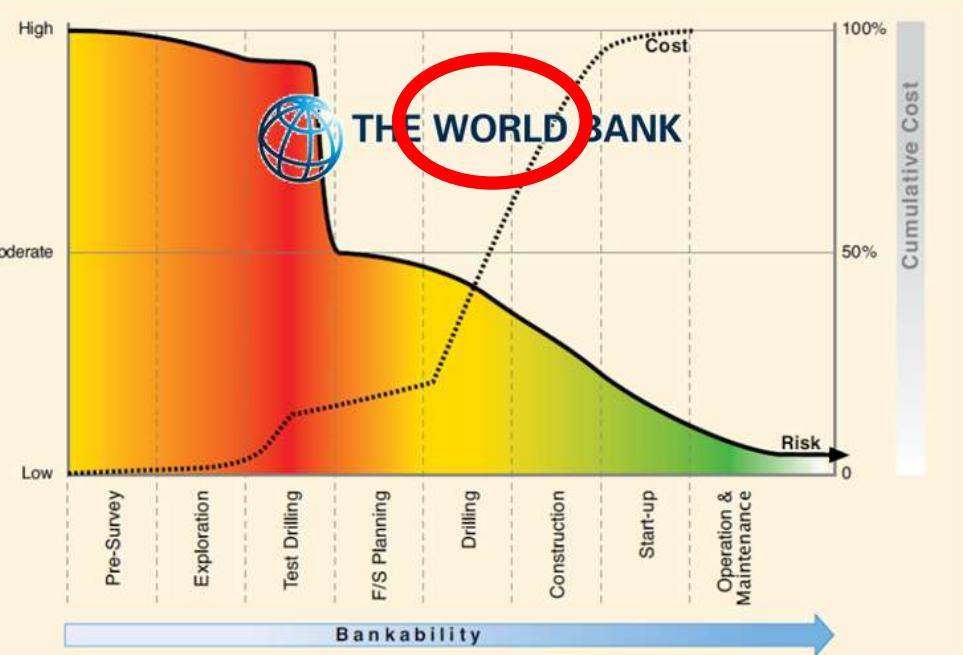


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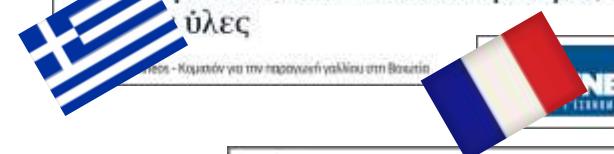
Europe's groundwater – a key resource under pressure
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Greek - Κομισιόν για την παρουσία γεωλογίας στην Ευρώπη



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 **La falta de materias primas y la competencia de EE UU amenazan la producción europea de baterías**



**Pan-European problems require a
pan-EU efforts and solutions!**

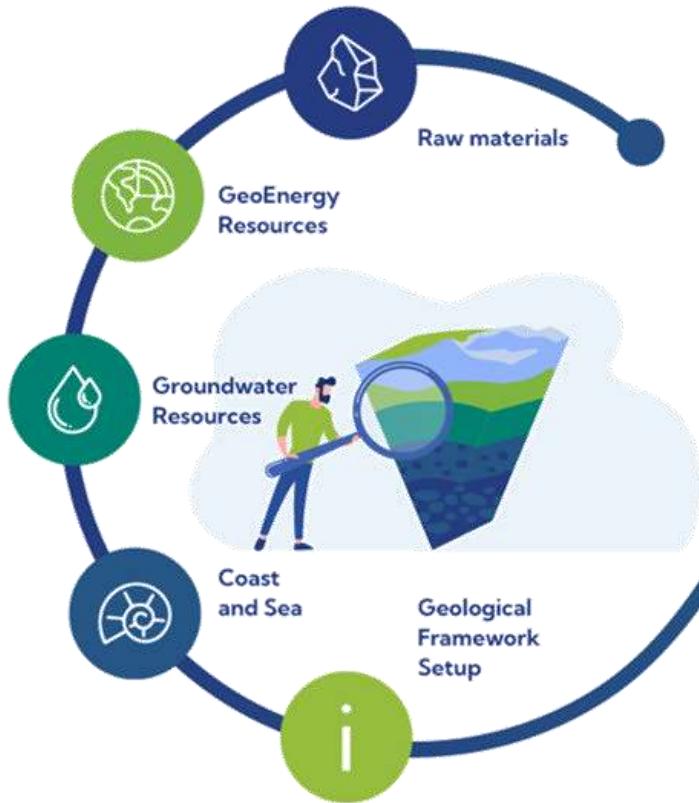




Approach & Mission



Approach: 3 Interconnected Rings



Developing harmonised data & Information service



Developing Information structure

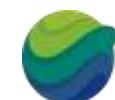
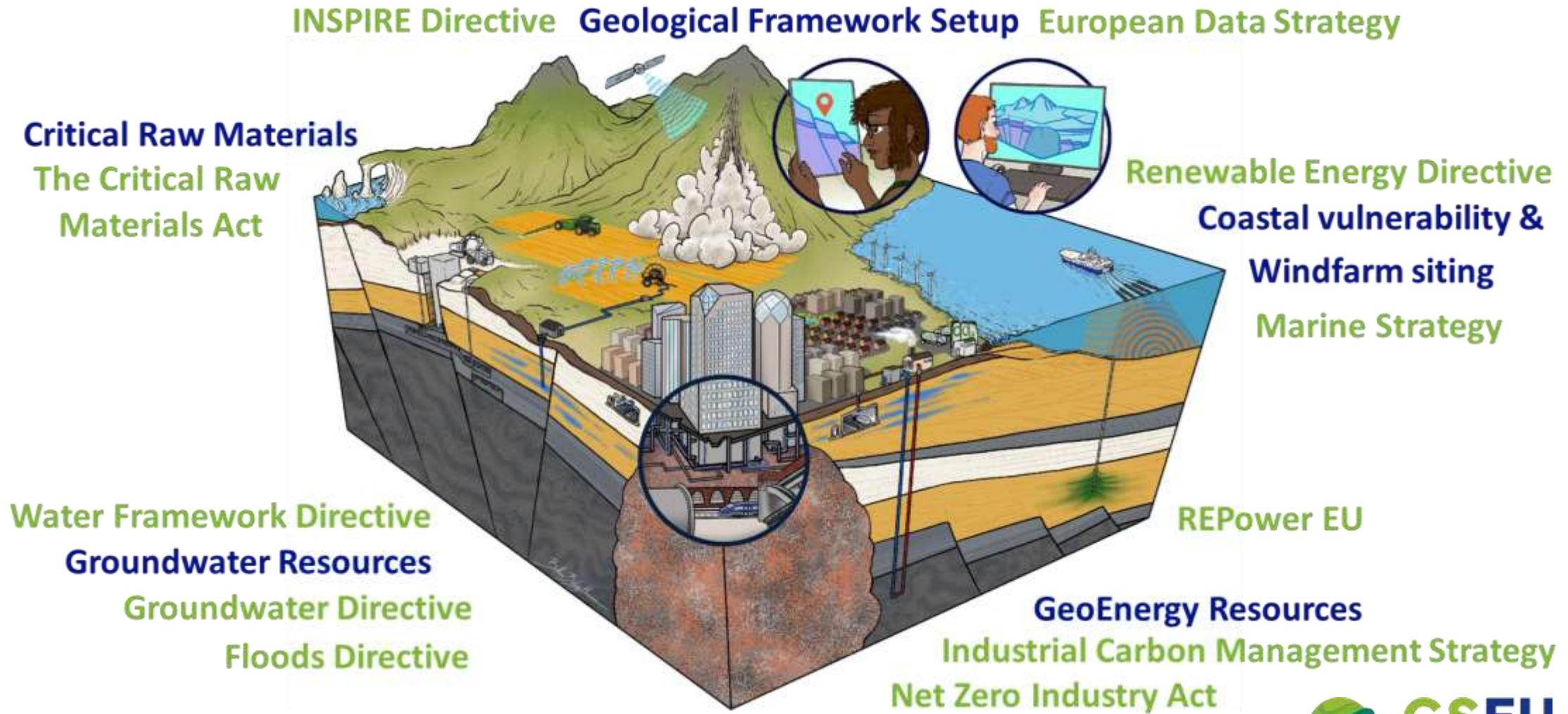


Communication, dissemination, exploitation & outreach

<https://www.europe-geology.eu/>



Green Deal Policy & Earth Systems are Interconnected



GSEU
GEOLOGICAL SERVICE FOR EUROPE



From Geological Data to Policy & Society Support

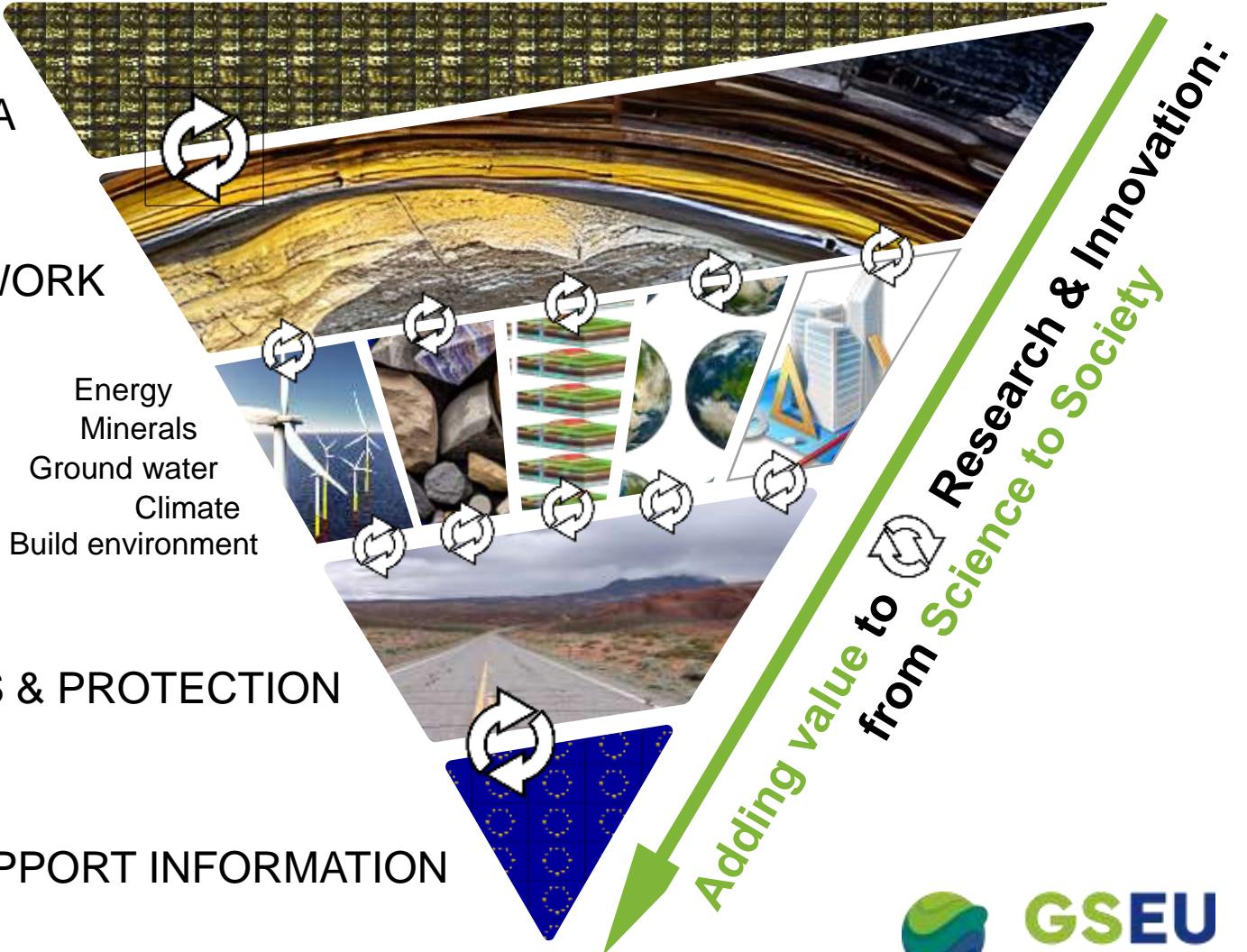
INTEROPERABLE GEOLOGICAL DATA

3D GEOLOGICAL FRAMEWORK

Energy
Minerals
Ground water
Climate
Build environment

IMPACTS & PROTECTION

DECISION SUPPORT INFORMATION





The banner features the GSEU logo at the top left, consisting of a green and blue stylized rock icon followed by the text "GSEU" and "GEOLOGICAL SERVICE EUROPE". The background image is a scenic view of a coastal cliff overlooking a body of water under a clear blue sky. At the bottom, the text "GEOLOGICAL SERVICE FOR EUROPE" is written in large, bold, green and white letters, with the website "WWW.GELOGICALSERVICE.EU" in smaller white text below it.

