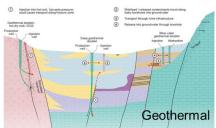
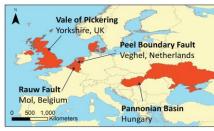


The four GeoERA groundwater projects and their main contributions to EGDI and sustainable groundwater management aligned with EU and UN policies:

Conceptual models and decision support tool for assessment of groundwater vulnerability to energy-related activities



Reports from pilot study sites in BE, HU, NL & UK



Groundwater quality travel times, vulnerability and age

HOVER

(BRGM)

Research and Information products from local to Pan-European scale from the four projects include:

Groundwater quantity

Pan-EU groundwater

Degradation of contaminants at specific points in the groundwater – surface water transition zone

Groundwater vulnerability to pollution from the surface at European scale



Groundwater vulnerability

to deep energy related activities

Salt water intrusion into coastal aquifers at local scale



Groundwater recharge studies at local to Pan-European scale



(GEUS)

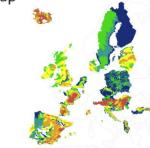
TACTIC (GEUS)

Groundwater and climate change impacts and adaption



Local studies of karst and chalk springs and aquifers

ESOURC

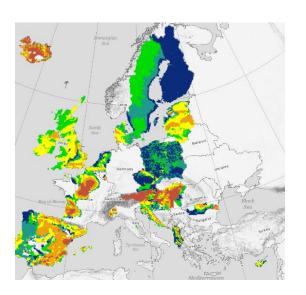


Depth and volume of groundwater resources at European scale

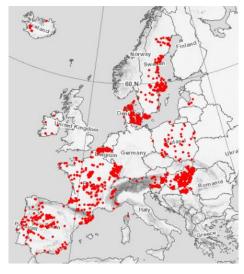
GEOERA

Examples of contributions for expected GeoERA groundwater impacts according to the GeoERA Grant Agreement include:

1) Improved access to downloadable groundwater <u>quantity</u> and <u>quality</u> data at local to Pan European scale – examples include:



Water volumes and aquifer characteristics in European aquifers

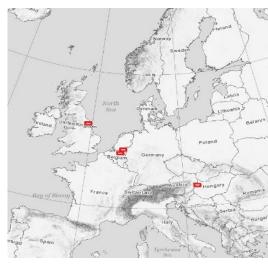


Groundwater quality in European aquifers: here As > DWS (HGT > 1)

2) State-of-the-art tools to support sustainable decision making in relation to the water-food-energy-ecosystem nexus (interrelated resource systems) – examples include



Nitrate in the unsaturated zone infiltrating to groundwater

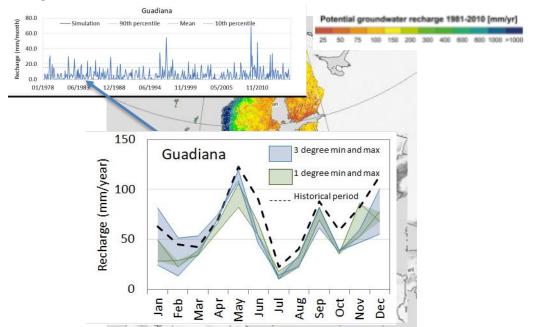


Decision Support Tool for assessment of groundwater vulnerability to deep energy related activity

GeoERA - GROUNDWATER

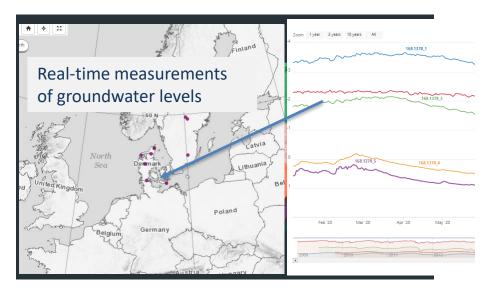
Further examples of contributions for expected GeoERA groundwater impacts according to GA include:

3) Tools for assessment of climate change impacts, mitigation and adaptation strategies examples include:



Average groundwater recharge for Europe as well as measured and simulated historical, current and future recharge at different scales and climate change scenarios

4) Opportunities for and collaboration with private companies and research institutions to develop new EGDI add on services for groundwater – examples include:



Collaboration with SMEs e.g. for 1) visualisation of 3D models for hydrogeological assessments and 2) real-time water table measurements and visualization

GeoERA - GROUNDWATER



THANK YOU

for your attention





https://geoera.eu/themes/groundwater/



