UNFC and UNRMS in the spotlight of the GeoERA perspective

RESOURCE MANAGEMENT WEEK 2021
ENABLING SUSTAINABILITY PRINCIPLES IN RESOURCE MANAGEMENT

UNECE
- 47 national and regional Geological Survey Organisations co-funded by European Commission
- 32 European countries
- 15 Scientific Projects (SP)
- 4 Thematic themes
- 1 Goal: contributing to the optimal use and management of the subsurface

More on GeoERA: https://geoera.eu
GeoERA Perspective

Related Domains
- Works on mutual understanding
  - Vocabularies, test and show cases...

- Delivers harmonised information
  - cartographies and thematic maps ...

- Accumulates expertise of regional knowledge & information to a quality controlled / cohered resource database
  - Repositories, Inventory, eYearbook...

- Assists in identifying high potential areas for responsible sourcing and supply within Europe.
Method and model development, driver of technologies

- Assessing Critical Raw Material (CRM) potential in European Seas and monitoring of ecological developments
  - Pan-European map of seabed mineral deposits and resource estimations

- Fundamental information prior to business cases <-> G-, E-, F- Axis (UNFC)

- Recommendations <-> UNRMS

More on MINDeSEA: https://geoeramindesea.wixsite.com/mindesea
- Information on Critical and Strategic Raw Materials in Europe
- Method and model development
- Assessment of strategic and Critical Raw Material potential, including
  - Responsible sourcing potential in Europe
  - Common sense on standards, including showcases on UNFC;
  - Potential of residuals in historical mining sites
- Basis for reliable data at G-Axis

More on FRAME: http://www.frame.lneg.pt/
- Model developments, database, and repositories, including atlas.
- Feeds G and E-Axis through e.g.
  - non commercial value assessments in view of cultural heritage;
  - showcases on common standards
  - UNFC test case –Norwegian example provided to MINTELL4EU (see presentation by Kari Aasly)

More on Eurolithos: http://www.eurolithos.org/
GeoERA Perspective
MINTELL4EU: Mineral Intelligence for Europe | UNFC

- From national or regional to pan-European database:
  - Harmonization, increased spatial coverage, INSPIRE standards
  - Minerals Inventory (occurrences, occurrence areas, mines etc.)
  - Minerals Yearbook (trade statistics, resources/reserves and exploitation)
  - Historic mining sites of touristic interests
  - Test cases on UNFC

All displayed at the European Geological Data Infrastructure (EGDI - www.europe-geology.eu)

More on Mintell4EU: https://geoera.eu/projects/mintell4eu7/
- Actions in the forefront of industry exploration and after closures of business cases
- Method development, monitoring, observation, forecasts
  - Unbiased interpretation
  - Business cases of the future?
Thank you!

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