



FORECASTING AND ASSESSING EUROPE'S STRATEGIC RAW MATERIALS NEEDS

Forecasting and Assessing Europe's Strategic Raw Material Needs

Daniel de OLIVEIRA, LNEG | FRAME Project Lead ETPSMR event, 17 November 2020









20 partners

8 work packages

- > CRM & SRM
- Phosphates
- Energy Critical Elements
- Responsible sourcing (Nb-Ta)
- > Abandoned mines (selected case studies

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Challenges we face today





CRM Mineral Intelligence

















CRM Mineral Intelligence: the next steps



Legend:

GLGB: central Lappland greenstone belt; NB: Norrbotten; Sk:Skellefte; BR: Bergslagen; S-CAL: Scandinavian Caledonides; IS-CAL: Ireland-Scotland Caledonides; EAP: Eastern Alpine province; WAP: Western Alpine province; WC: Western Carpathian; EC: Eastern Carpathian; CB: Carpathian-Balkan Zone; SMZ: Serbian-Macedonian Zone

Geological map of Europe and Greenland modified after Asch (2005) and the main metallogenetic areas in Europe







Energy Critical Elements



innovation programme under grant agreement No 731166













Cell Based Analysis (CBA) method

to apply

- 1) a set of known deposits containing the targeted commodity in the area of study (learning set)
- 2) a map of relevant geological features
- Superimpose a regular grid ("cells") over the area o study
- Build an attribute table
- Codes the presence (1) or absence (0) of each lithology in each cell of the grid
- 3) identify the lithological associations related to known deposits by drawing a buffer around each deposit















Highlights

A cohesive taskforce of scientists working together for common European goals

> Innovation in mineral prospectivity science

Unlocking the mineral potential for a renewed raw materials sector in Europe as a driver for domestic raw material value chains











