



**FRAME**  
FORECASTING AND ASSESSING EUROPE'S  
STRATEGIC RAW MATERIALS NEEDS

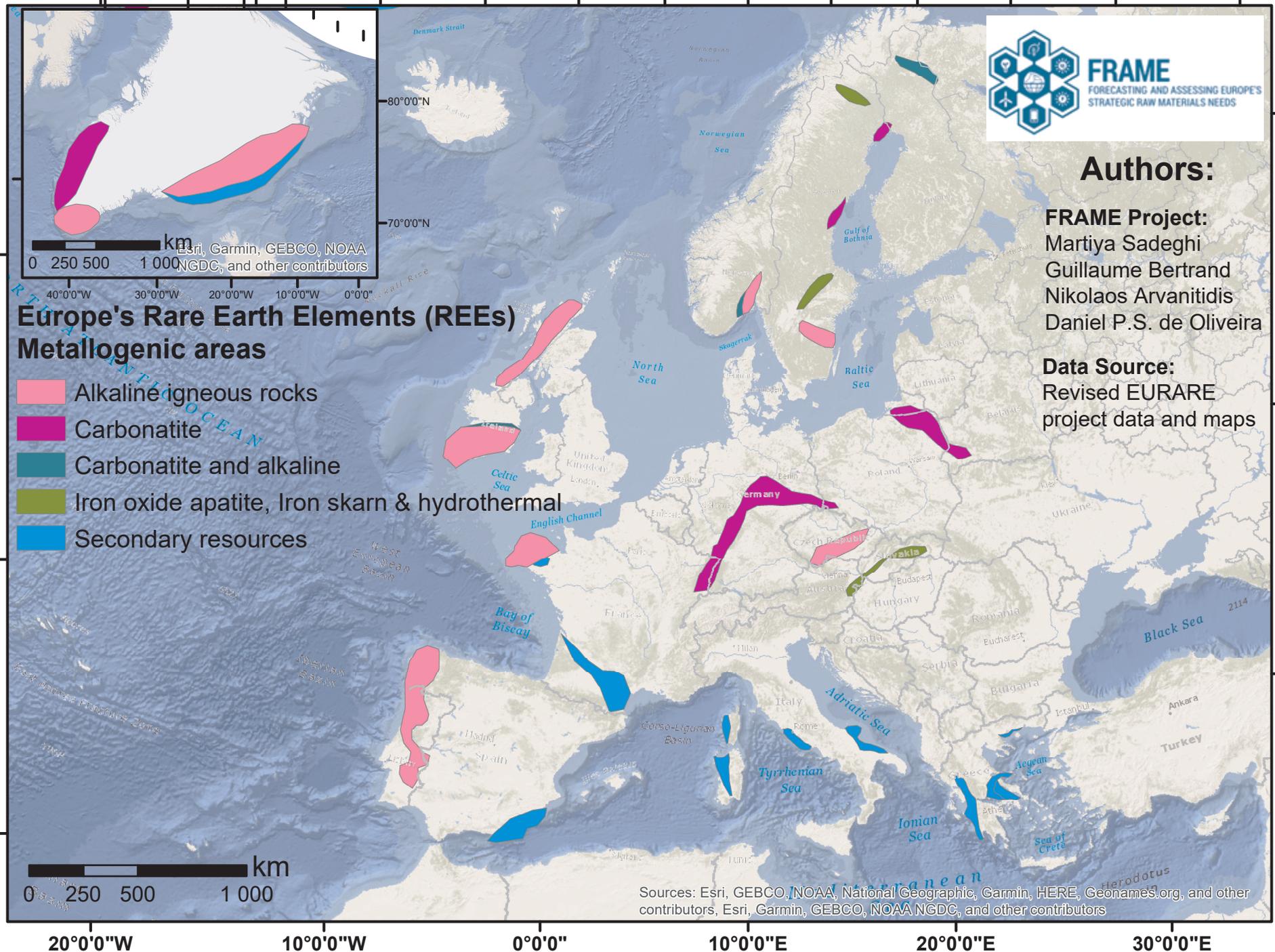
### Authors:

#### FRAME Project:

Mariya Sadeghi  
Guillaume Bertrand  
Nikolaos Arvanitidis  
Daniel P.S. de Oliveira

#### Data Source:

Revised EURARE  
project data and maps



## Europe's Rare Earth Elements (REEs) Metallogenic areas

-  Alkaline igneous rocks
-  Carbonatite
-  Carbonatite and alkaline
-  Iron oxide apatite, Iron skarn & hydrothermal
-  Secondary resources

Sources: Esri, GEBCO, NOAA, National Geographic, Garmin, HERE, Geonames.org, and other contributors, Esri, Garmin, GEBCO, NOAA NGDC, and other contributors