

## MINERAL RESOURCES MAPPING OF ORTHOMAGMATIC DEPOSITS IN EUROPE:

### THE MAP VIEWER

This map viewer presents the results of the resource mapping of orthomagmatic mineral deposits in Europe. This task was part of the Work Package 5 of the SEMACRET project. Data were systematically collected, reviewed, complemented and evaluated between November 2023 and February 2025. As the source of information were used existing national and EU databases as well as other additional literature (articles, press releases, reports, etc.). It covers EU and associated European countries (Norway, South Balkan countries) as well as Greenland, associated with the EU through Denmark as overseas territory which recently signed strategic partnership on sustainable raw materials value chains with the EU.

The map shows different types of mineralizations associated with orthomagmatic mafic-ultramafic mineral systems:

- Sulphide Ni-Cu dominated mineralization with possible Co, Cr and/or PGE by-products
- Oxide (Fe)-Ti-V mineralizations (with Ti/V rich magnetite, rutile or ilmenites)
- Chrome ores
- PGE dominated (reef type) mineralizations that might be associated with other precious and base metals (Au, Ag, Cu, Ni)

The database that has been created to this purpose contains basic information, localization with coordinates, characterization of occurrence type, resource quantities (if available), including UNFC<sup>1</sup>. In addition to the basic information, for majority of points is available a link to passport with more detailed information.

The map viewer allows to filter data by different attributes, such as occurrence type (deposit, prospect, occurrence), mine status (operating, under development, not operating)

<sup>1</sup> For the UNFC, the United Nations Framework Classification Update 2019 and related guidances and documents has been applied. For further information see:

<https://unece.org/sustainable-energy/publications/united-nations-framework-classification-resources-update-2019-ece>

For CRIRSCO-compliant resource estimates, respective UNFC class is not displayed

or importance (very large, large, medium, small) which are based on INSPIRE Mineral Resources Theme definitions<sup>2</sup>. Other filter options are by mineralization type or by classification method applied for the resource estimate.

To learn more about the specific definitions applied in the map viewer and the passports see the [Terminology](#).

If you have further questions or comments, please use the SEMCRET [Contact form](#), or contact directly to: [blazena.wertichova@geology.cz](mailto:blazena.wertichova@geology.cz)

### **Disclaimer:**

*Information provided in the Map viewer and respective Mineral deposit passports are based on the literature review at the time of data collection. The purpose of the Map viewer is to illustrate general mineral potential of selected deposit type in the EU and associated countries. It is not aimed to be neither an inventory nor any kind of qualified assessment, advice or official statement. Authors are not responsible for the use which might be made of this application. It is recommended to verify an up to date information of respective objects from reliable sources.*

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<sup>2</sup> [https://knowledge-base.inspire.ec.europa.eu/publications/inspire-data-specification-mineral-resources-technical-guidelines\\_en](https://knowledge-base.inspire.ec.europa.eu/publications/inspire-data-specification-mineral-resources-technical-guidelines_en)