



## Deliverable D4.3

### Supply data to WP2, 3 and 5 for inclusion into resource databases and information systems

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## **GENERAL INTRODUCTION**

The European Union has identified security of supply, improvement in environmental management and resource efficiency as key challenges for the raw materials sector. Data regarding the location and spatial distribution of primary and secondary raw materials, with respect to exploration, exploitation, production and trade activities, underpin decision making in government and industry. Given the dynamic character of such data, regular updates of comprehensive, reliable and harmonized information across borders are required. The overall aim MINTELL4EU is to improve the European Knowledge Base on raw materials as there are several sources of non-harmonized data with different coverages developed for different purposes during national and international projects during the last decades.

Tasks on this include updating the electronic Minerals Yearbook produced in the Minerals4EU project as well as extending the spatial coverage and quality of data currently in the Minerals Inventory. Furthermore, MINTELL4EU aims to increase the degree of harmonization, communication and interaction between existing data platforms, with the ambition of reaching a fully operational and reliable data knowledge management system, fulfilling the European needs and taking into account the Raw Materials Information System (RMIS) of the European Union. Finally, the applicability of the UNFC classification system for obtaining more accurate Pan-European mineral inventories are tested through a large number of pilots on different commodity types across Europe.

MINTELL4EU has 27 partners representing each a national or regional geological survey organisation from 25 European countries.

## **EXECUTIVE REPORT SUMMARY**

This report documents D4.3. D4.3 is not a report but the delivery of data and information as an outcome of MINTELL4EU work package 4: UNFC pilot. D4.3 ensures coordination with other relevant tasks in MINTELL4EU as well as the incorporation of WP4 results into EGDI.

In addition, a proposal on how to visualize UNFC data has been elaborated, see Appendix to this report: GTK's proposal for visualisation of UNFC.



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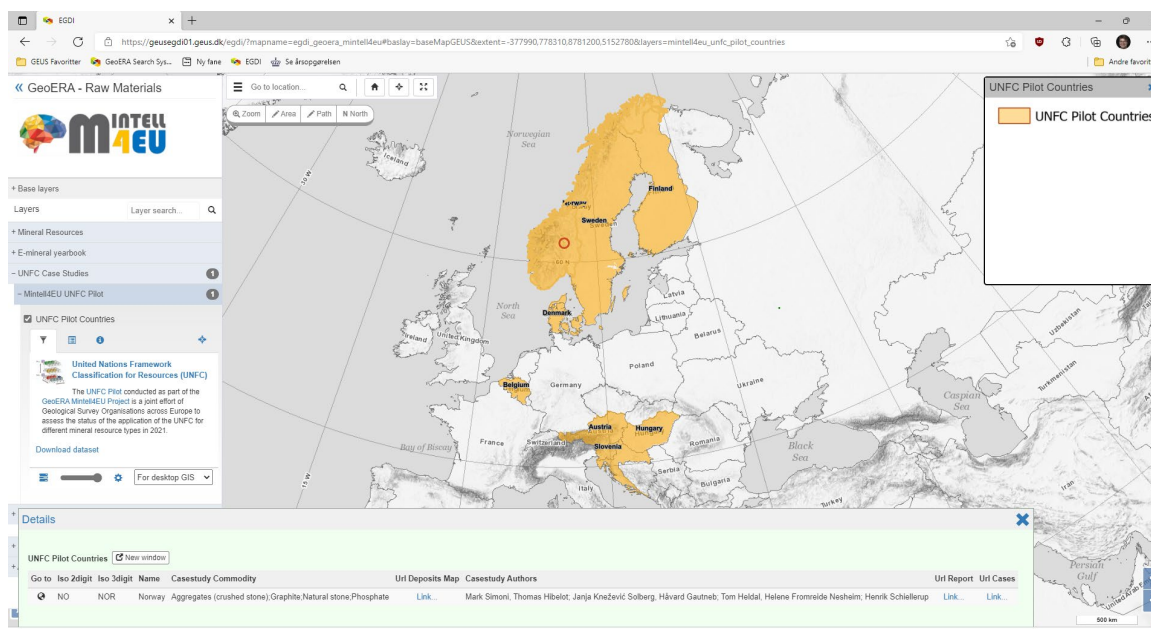
# 1 UNFC PILOT AND RESULTING DATA

One of the tasks of MINTELL4EU was to conduct a UNFC pilot (WP4), testing the UNFC system at a number of test cases across Europe. The outcomes of these efforts are documented in D4.1 (Simoni & Aasly, 2021) and D4.2 (Hokka & Eilu, 2021). These reports are available at the EGDl:

D4.1 Case study review with guidance and examples for applying the UNFC to European mineral resources

D4.2 Report on harmonization issues, data gaps and challenges, reviewing also the quality of Pan-European aggregated inventories for selected commodities

The spatial distribution of the test cases across Europe are visualized at this map called [MINTELL4EU UNFC Pilot](#) shown in Fig. 1 below.



**Figure 1:** The MINTELL4EU UNFC Pilot. By clicking at one of the countries with information on the pilot and a link to the report and cases appears.



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## 2 EXAMPLE ON VISUALIZATION OF UNFC CODES

UNFC code lists have been implemented in the MIN4EU database, updated under MINTELL4EU. However, so far only GTK has implemented UNFC codes on their national datasets on mineral occurrences and mines, but the database is ready for others to implement UNFC.

GTK has elaborated a proposal on how the UNFC codes can be visualized at EGDI. This proposal is described in the Appendix to this report.



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### 3 REFERENCES

Hokka, J., Eilu, P., Schjøth, F. and Aasly, K. A. (2021). [Report on harmonization issues, data gaps and challenges, reviewing also the quality of Pan-European aggregated inventories for selected commodities.](#) Helsinki, Finland: Geological Survey of Finland (GTK). MINTELL4EU deliverable D4.2., 22 pp.

Simoni, M., Aasly, K.A., Eilu, P., Schjøth, F. 2021. [Case study review with guidance and examples for applying the UNFC to European mineral resources.](#) MINTELL4EU Deliverable D4.1, 24 pp + [Appendix](#) (Aasly, K. A. et al), 195 pp.

Eloranta, T. (2021). GTK's proposal for visualization of UNFC. Helsinki, Finland: Geological Survey of Finland (GTK). MINTELL4EU, Appendix to D4.3. 14 pp.