

TILLTARGET - Enhanced use of till samples in mineral exploration targeting

Topic + key elements of the idea/problem:

The project introduces a new approach of use of till samples in mineral exploration by characterization of the mineralogical sources of geochemical anomalies by cutting edge electron optical and mass spectrometric analytical tools. This approach maximizes extracted information from the samples, supports efficiency of target selection, and enhances capacities for the prediction of the quality of potentially occurring ore in the targeted area.

Expected synergies and complementarities:

Projects targeting development of enhanced vectoring tools for mineral exploration. Re-evaluation of existing databases/sample sets in the point of view of further exploration potential. Development of time and cost efficient, cutting edge analytical procedures for mineral exploration.

Outcomes:

New service for mineral exploration by introduction of modern, highly sensitive and time-efficient mineralogical and geochemical characterization of till samples. Application of the new targeting method supports strategic decisions at the early stages of mineral exploration projects and reduce environmental footprints of mineral exploration in vulnerable arctic-subarctic areas.

Market & Business opportunities:

Mineral exploration companies, SMEs developing new exploration techniques and services.

Potential partners already identified:

University of Oulu, Mawson Resources Ltd., Boliden Finland Oy, Universidad del Desarrollo, Chile

Wanted additional partners:

Research institutions with modern analytical infrastructure, exploration and mining companies

