



Innovative, Non-Invasive and Fully Acceptable Exploration Technologies



SOCIALLY ACCEPTED, ENVIRONMENTALLY-FRIENDLY & TECHNOLOGICALLY ADVANCED:

THE PROJECT SCOPE

Exploration discovery of raw material resources requires innovations that either change the geological targets of exploration, the physical places that are reached, or the manner in which they are explored. Despite its rich history of mining and residual mineral wealth, current conditions within the EU present several social, political, legislative, cost, technical and physical obstacles to raw material exploration: obstacles to be overcome by **innovation, dialogue and reform**.

The *Innovative, Non-invasive and Fully Acceptable Exploration Technologies* (INFAC T) project unites stakeholders of Europe's future raw materials security in its consortium and activities. Via **effective engagement of civil society, state, research and industry**, the project will focus on each of the aforementioned obstacles. It will co-develop improved systems and innovative technologies that are more acceptable to society and which will invigorate and equip the exploration industry, unlocking unrealised potential in new and mature areas.

The project will develop **innovative geophysical and remote sensing technologies** (less-invasive than classical exploration methods) that promise to penetrate new depths, reach new sensitivities and resolve new parameters. The project will also set the EU as a leader on the world stage by establishing permanent infrastructure to drive innovation in the next generation of exploration tools: tools that are cost-effective, designed for EU conditions and its raw materials strategy, and high-performing in terms of environmental impact, social acceptability, and technical performance.

INFAC T is comprised of the following main components:

- Development and test of **innovative, non-invasive exploration technologies**;
- Foundation of **3 reference sites** for exploration technology in the south, centre and north of Europe;
- **Stakeholder engagement, education and policy reform**.

These actions are combined to reach each of the main areas in which the EU has the power to influence changes in its raw materials security.

INFAC T FACTS IN BRIEF

FUNDING ORGANISATION

EU/ H2020

FUNDING AMOUNT

5.6 Mio €

TIMEFRAME

Nov 2017 – Oct 2020

COORDINATOR

Helmholtz Institute Freiberg for Resource Technology at Helmholtz-Zentrum Dresden-Rossendorf

PARTNERS

17 partners from research and academia, industry, state and not-for-profit organisations drawn from seven countries. Altogether they have extensive experience in mining, geology, exploration, IT, social science and communication:

Agencia de Innovation y Desarrollo (IDEA), Anglo American Sakatti Oy, Arhus Geo, Atalaya Mining, ATClave, Cobre las Cruces, Dialogik, European Federation of Geologists (EFG), Fraunhofer IAO, GALSA (Geotech), Geognosia, Helmholtz-Zentrum Dresden-Rossendorf (coordinator), Oulu Mining School, SRK Exploration Services, Supracon, SYKE, University of Eastern Finland.



WEB: INFAC TPROJECT.EU
SOCIAL MEDIA: @INFAC TPROJECT

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement n° 776487.

