



# INFAC

Innovative, Non-Invasive and Fully Acceptable Exploration Technologies



## MEDIAKIT

August 2019



## SUSTAINABLE MINERAL EXPLORATION IN THE EU

Press release | July 2019 | The EU-funded INFACT project recently collected a set of new geoscience data through airborne electromagnetic (AEM) surveys in southern Spain. The Horizon 2020 project aims to develop first-of-its-kind European “reference sites” for non-invasive mineral exploration technologies in three EU countries.



INFACT is looking at two main aspects of exploration technologies:

- Technical performance: how a technology contributes to the discovery of a new deposit;
- Socio-environmental: what is the impact of a technology on the environment and how is it perceived by the local community.

### INFACT geophysical surveys

Airborne electromagnetics (AEM) is a non-invasive mineral exploration technique, minimising the environmental impact related to exploration activities, that can detect variations in the electrical conductivity of rocks, sediments and waters to a depth of several hundred meters. The INFACT consortium conducted a series of AEM surveys across Europe between summer 2018 and April 2019. The recent surveys in Spain were led by Geotech Ltd., in collaboration with Atalaya Mining, Cobre Las Cruces, Aarhus Geophysics, Geognosia, and coordinated by the Helmholtz Institute Freiberg for Resource Technology. In the coming months, the AEM data will be integrated with other datasets collected in order to build a strong knowledge of the under-cover geology.

### Social perception of mineral exploration

INFACT partners have developed a stakeholder engagement process based on preliminary scientific research on social acceptance of mining and mineral exploration for different social contexts: The European Union as a whole, and the INFACT reference countries, regions and sites based in Finland, Germany and Spain. Across the three countries, local residents and national stakeholders were informed, consulted, or invited to collaborate in the exploration campaign, building thus trust around the project's activities.

In Spain, two public events were organised nearby the reference area in Andalusia, inviting high-school students to follow live the geoscience data acquisition. Beyond the student engagement activities, the



INFAC team met with professionals from the mining and exploration sector, representatives of regional institutions, and representatives from the International University of Andalusia.



#### Project's outcomes

INFAC aims at developing a selection of innovative, non-invasive exploration technologies in an industry-relevant environment to raise their Technology Readiness Level, leading to direct benefits for Society.

The data collected during the project lifetime will be consultable by the public and displayed on an online interactive platform.

More information is available on the project website: [www.infactproject.eu](http://www.infactproject.eu)

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#### The INFAC partners:

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 Institute Freiberg for Resource Technology (HIF) at Helmholtz-Zentrum Dresden-Rossendorf (coordinator), Oulu Mining School, SRK Exploration Services, Supracon, SYKE, University of Eastern Finland.

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**Photo credit:** Robert De La Rosa and Leila Ajjabou

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#### For more information:

*Helmholtz Institute Freiberg for Resource Technology at HZDR:*

Leila Ajjabou | Project coordinator  
Phone: +49 (0) 351 260-4461 | Email: [l.ajjabou@hzdr.de](mailto:l.ajjabou@hzdr.de)

Dr. Richard Gloaguen | Head Exploration Division  
Phone: +49 (0) 351 260-4424 | Email: [r.gloaguen@hzdr.de](mailto:r.gloaguen@hzdr.de)

*European Federation of Geologists*

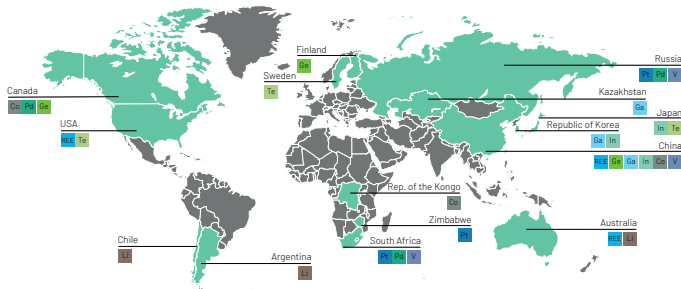
Marko Komac | Leader WP7 – Impact creation  
Email: [efg.president@eurogeologists.eu](mailto:efg.president@eurogeologists.eu)

Anita Stein | EFG Communication Manager  
Email: [anita.stein@eurogeologists.eu](mailto:anita.stein@eurogeologists.eu)



## PROJECT BACKGROUND ..... INFAC IN A NUT-SHELL .....

- Rising global demand for metallic raw materials and complex metal alloys including "high-tech metals", e.g. gallium, germanium, the platinum group elements and steel alloy metals such as nickel and molybdenum;
- Recycling recovery rate still very low for Rare Earth Elements (REE);
- EU currently dependent on mineral raw material import.



Source: <http://energiesysteme-zukunft.de>

INFAC looks at critical raw materials and elements indispensable for the energy transition.

1

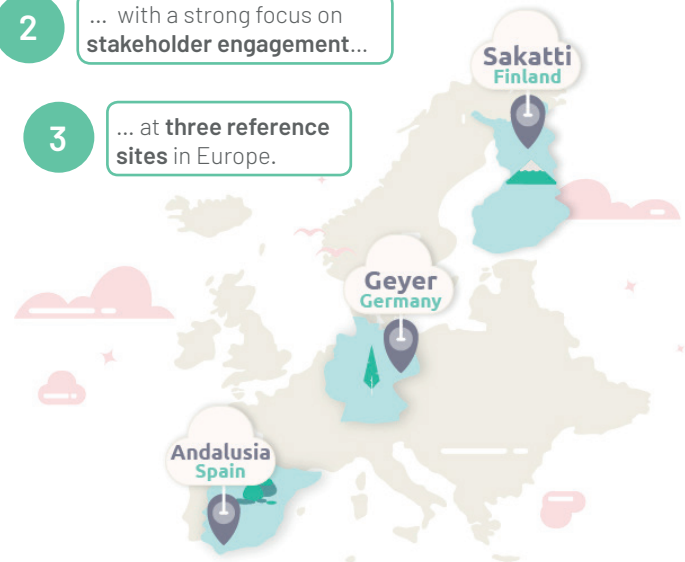
Benchmarking of **innovative non-invasive mineral exploration** techniques...

2

... with a strong focus on **stakeholder engagement**...

3

... at **three reference sites** in Europe.



## WHO? ..... HOW LONG DOES THE PROJECT RUN? .....

**17 partners** from research and academia, industry, state and not-for-profit organisations from **seven countries** with extensive experience in mining, geology, exploration, IT, social science and communication:

## COORDINATOR

HZDR

HELMHOLTZ  
ZENTRUM DRESDEN  
ROSSENDORF

## SOCIAL DIALOGUE &amp; ENVIRONMENT

DIALOGIK

SYKE



## IMPLEMENTATION &amp; BUSINESS MODEL



Fraunhofer

## TECHNICAL DEVELOPMENT &amp; EXPLORATION

GEOTECH

Atalaya

supracon

srk

AARHUSGEO

OULU MINING  
SCHOOL

INFAC has started in **November 2017** and will run over 36 months, until **October 2020**.

## MORE INFORMATION

- FAQ section: <https://www.infactproject.eu/faq/>
- Project reports: <https://www.infactproject.eu/deliverables/>
- Technical information: <https://www.infactproject.eu/technical-information/>

## CONTACT

Helmholtz Institute Freiberg for Resource Technology at HZDR

Leila Ajjabou | Project coordinator

Phone: +49 (0) 351 260-4461 | Email: [l.ajjabou@hzdr.de](mailto:l.ajjabou@hzdr.de)

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Marko Komac | Leader WP7 - Impact creation

Email: [efg.president@eurogeologists.eu](mailto:efg.president@eurogeologists.eu)

Anita Stein | EFG Communication Manager

Email: [anita.stein@eurogeologists.eu](mailto:anita.stein@eurogeologists.eu)



WEB: [INFACPROJECT.EU](http://INFACPROJECT.EU)  
SOCIAL MEDIA: @INFACPROJECT

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# INFACT

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