

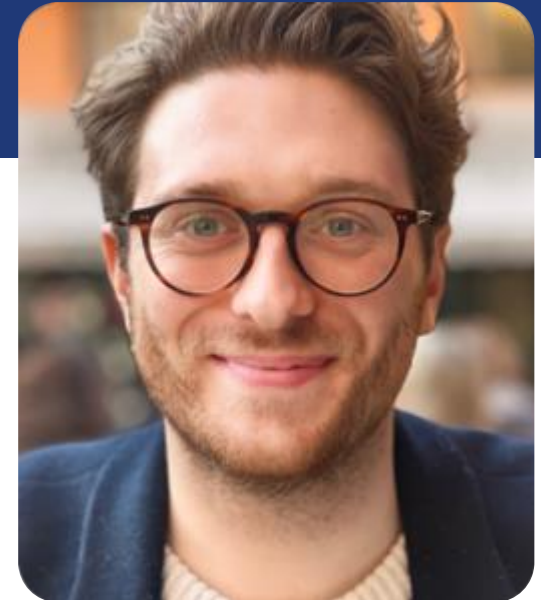
VECTOR



Tina Pereira
Helmholtz Institute Freiberg for Resource Technology,
Helmholtz-Zentrum Dresden-Rossendorf, Germany



Sarah Gordon
Satarla



Chris Stockey
Satarla

What do you consider to be the key challenges in exploration and mining projects?

Geological pilot sites


- Irish Midlands, Ireland
- Kupferschiefer, Germany
- Jadar, Serbia (analysis of historic data only)

Core R&I targets/results

VECTOR's delivers evidence-based and accessible knowledge that integrates geoscience and social science pathways, to develop sustainable and responsible mineral exploration and mining.

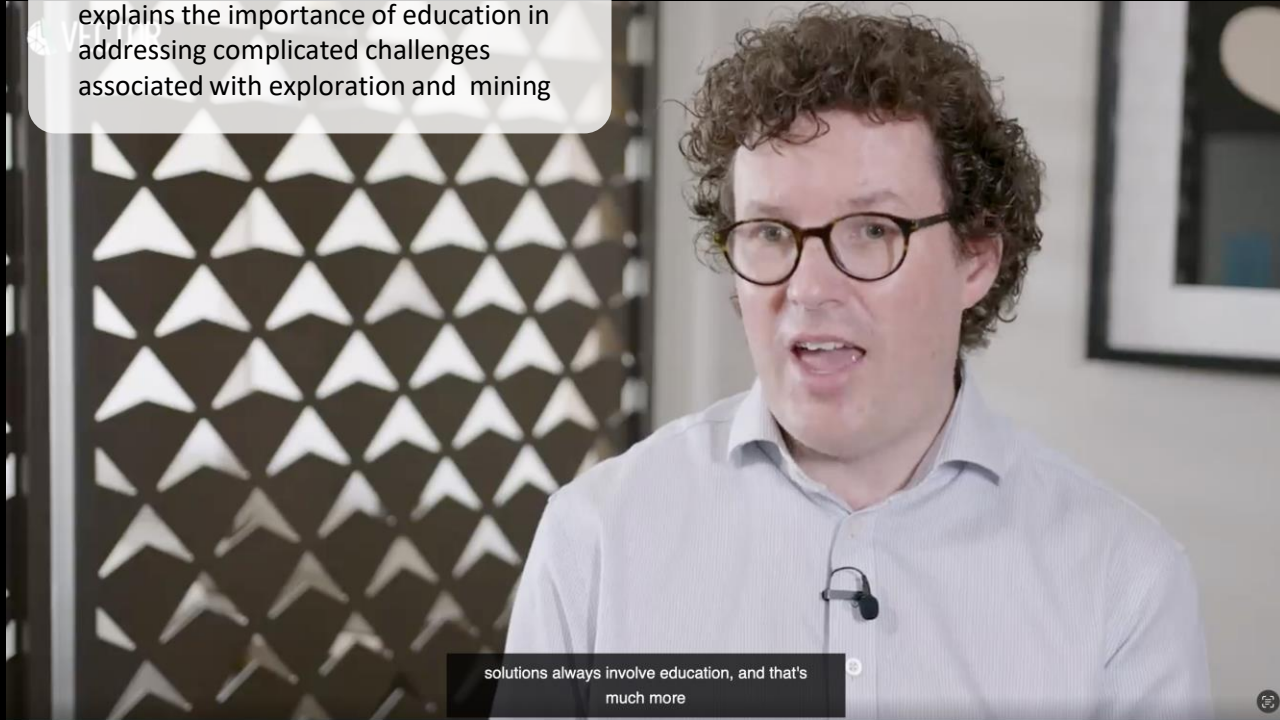
Goals:

- A geological prospectivity toolkit based on a novel workflow using machine learning-based integration of less invasive geological, geochemical and geophysical measurements.
- Identification of how differences in societal values impact attitudes towards mining projects.
- An integrated toolkit that considers both geological exploration potential, social and environmental factors.



Above: VECTOR drill-core scanning campaign.

Below: VECTOR researcher Shane Bergin explains the importance of education in addressing complicated challenges associated with exploration and mining



solutions always involve education, and that's much more

Project Outputs



2D

3D

4D

2D, 3D and 4D Geological Models

Validation of non-disruptive technologies:



Passive Seismic Imaging



Electrical Conductivity (3D)

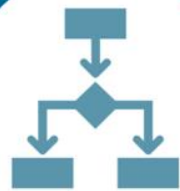
Integration

SVi

Shared Value Index



Continued Professional Development Platforms



Social Simulator

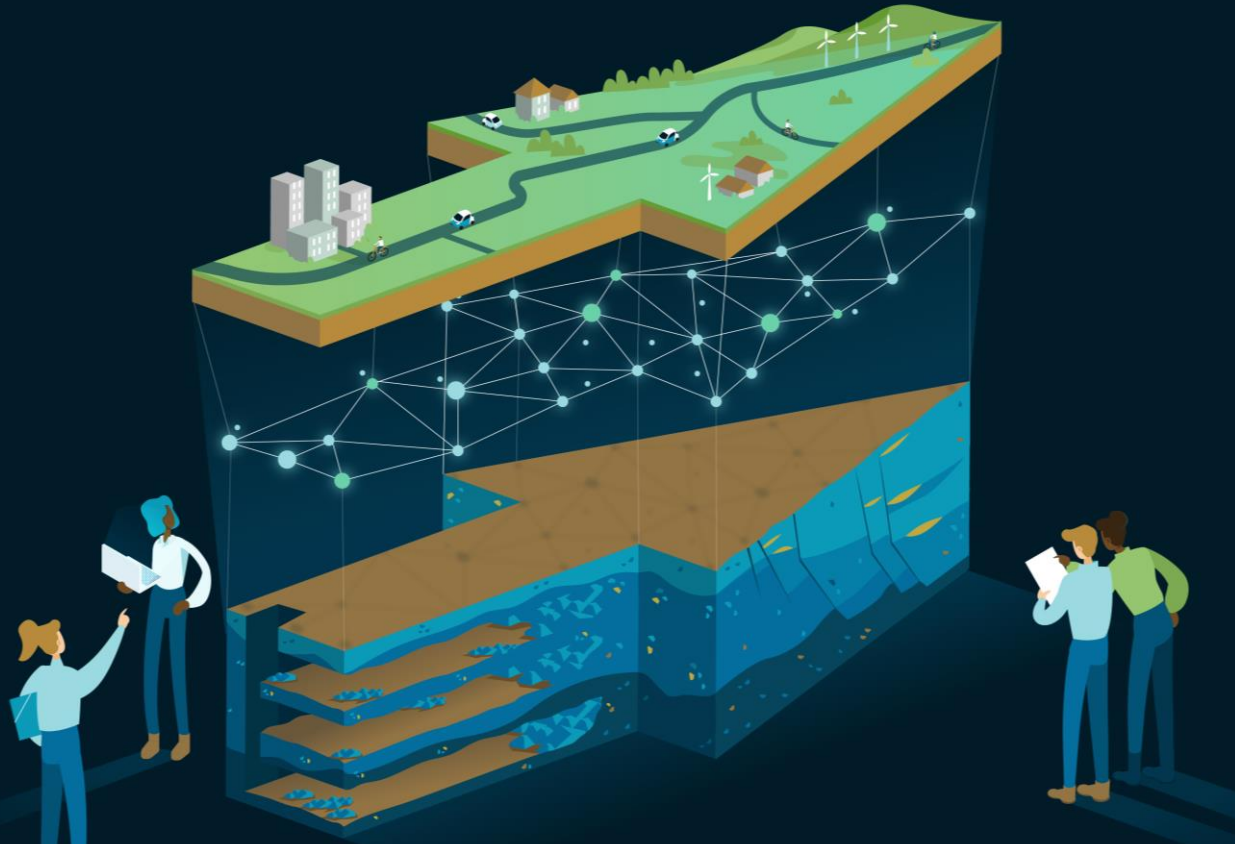


Education Facing Materials



Outreach at Science and Arts Festivals

Vectors to Accessible Critical Raw Material Resources in Sedimentary Basins



 **VECTOR**



Project name

VECTOR

Short description

Vectors to Accessible Critical Raw Material Resources in Sedimentary Basins

Project duration

1 June 2022 – 31 May 2025

Budget

€7,474,006 (€5,606,679 EU contribution)

TRL level

6

Major industrial/research partners

