

NORDIC IRON ORE AB

A SWEDISH MINING DEVELOPMENT COMPANY

Aktiespararna i Vesteras

9th December 2021

IMPACT OF PARTICIPATION IN EU FUNDED PROJECTS.

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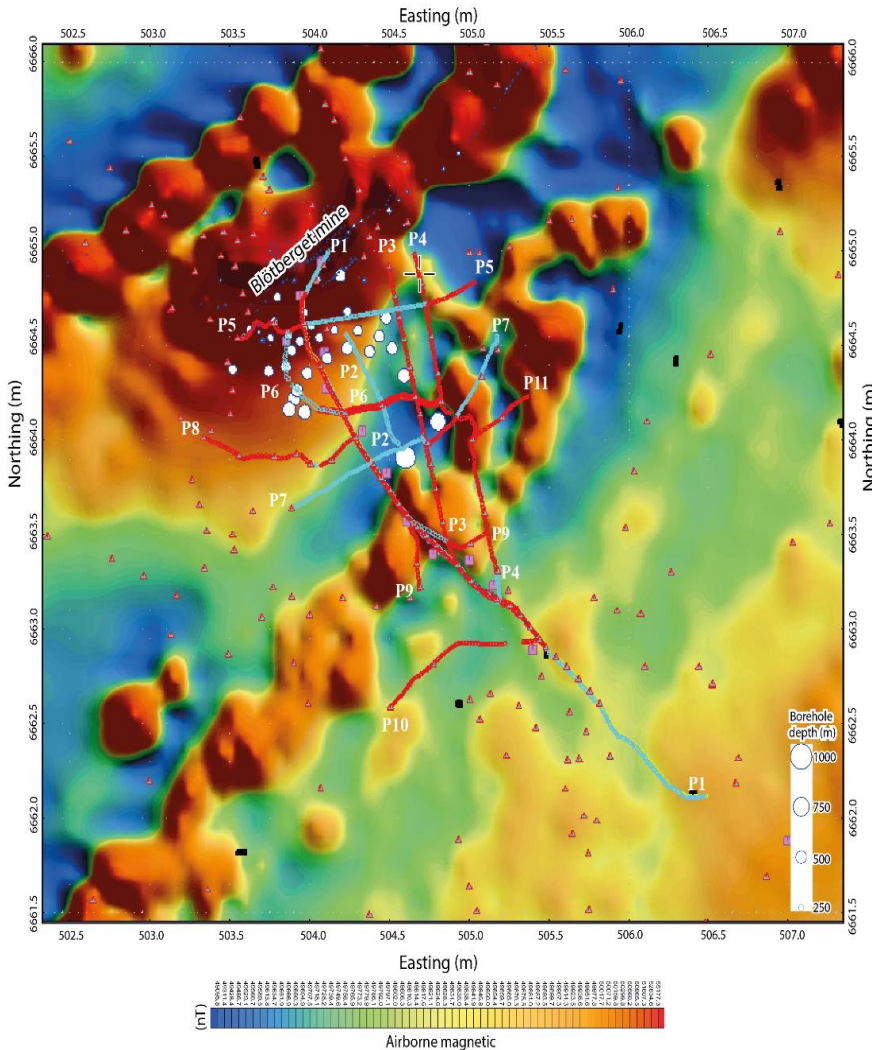
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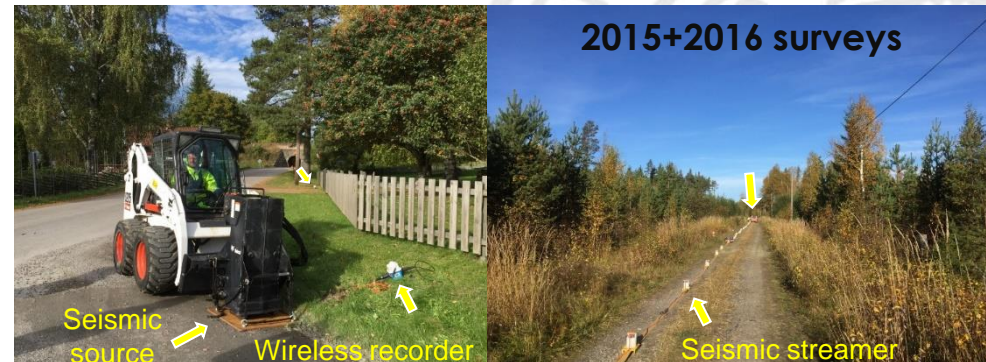
- **ERA-MIN 1 StartGeoDeliniation programme – Vinnova 2014, UU**
- **Smart Exploration – Uppsala University, 2017-2020, Development of low environmental and sustainable explorations techniques**
SMARTEXPLORATION
new ways to explore the subsurface
- **ERA-MIN 2 - Leading Edge – AMTEG – 2017-2021- Advanced magnetic instrumentation**

- Smart Exploration, backed by the EU, decided to push for solutions that are **environmentally friendly**, cost-effective and technically sensitive for deep exploration.
- The Smart Exploration project has responded to this interest by developing five prototypes and six methodological solutions addressing the ever-increasing demand to provide high-resolution and accurate subsurface imaging and modelling algorithms appropriate for deep **non-intrusive exploration** technology

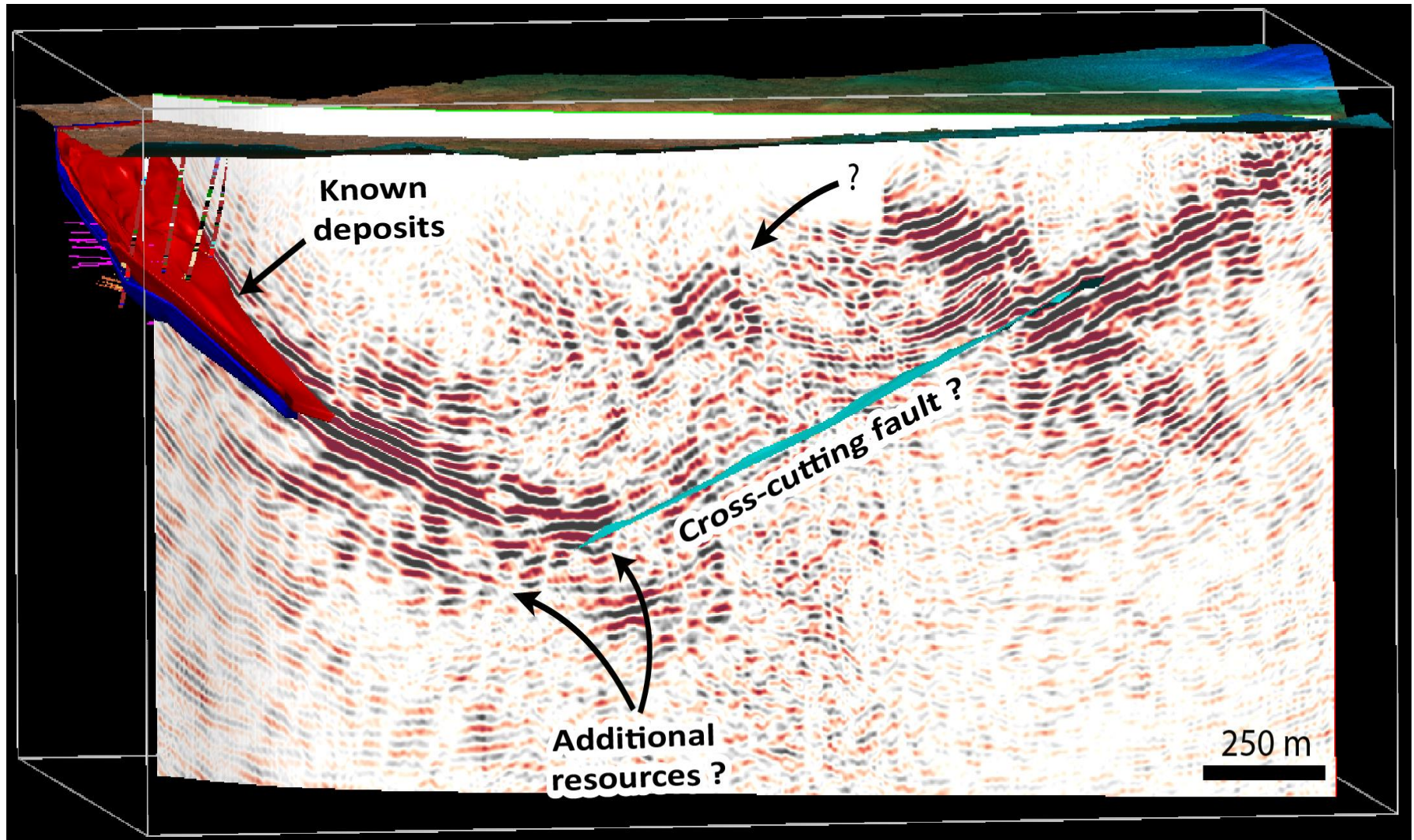
Ludvika surveys

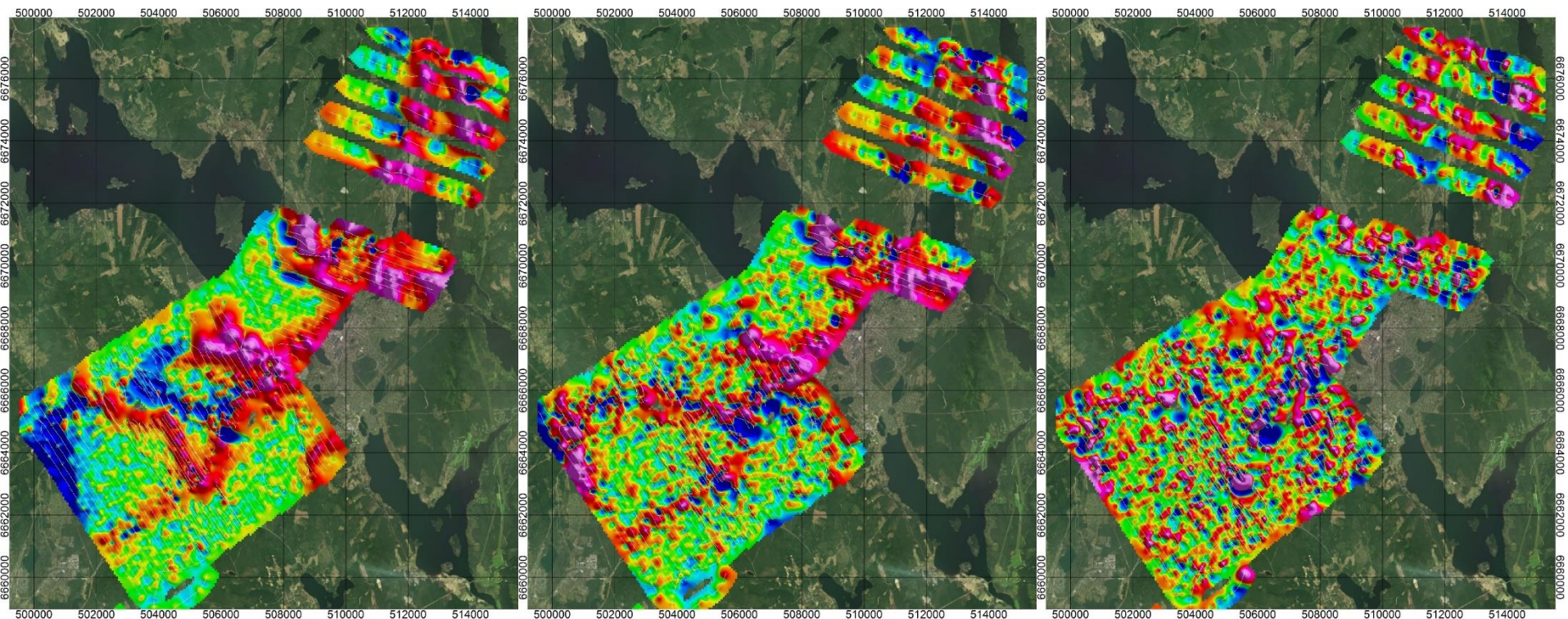


- **2015:** landstreamer seismics (~3.5 km)
- **2016:** Downhole logging conducted in 6 boreholes
- **2016:** Two cross profiles (~2.2 km & 800 m)
- **2016:** Ground-UAV mag, ground gravity and MT
- **2016:** Laboratory mag properties and
- **2019:** 3D seismic survey (c. 2 × 2 km)
- **2019:** SkyTEM survey
- **2019:** An E-vib 2D test survey along profile 1
- **2020:** Downhole survey planned (1-2 boreholes)
- **2020:** UAV-ground EM planned (small area)



Nordic Iron Ore™ **2D Results -Blötberget Mine Site, Sweden – (ERA-MIN 1
StartGeoDeliniation programme – Vinnova 2014)**

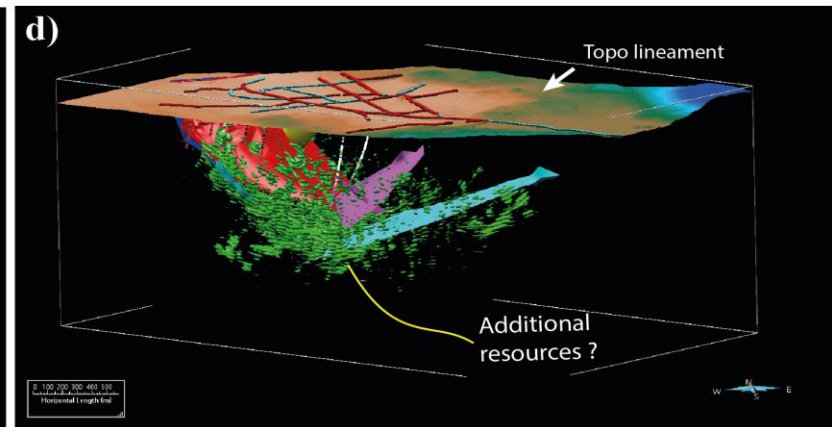
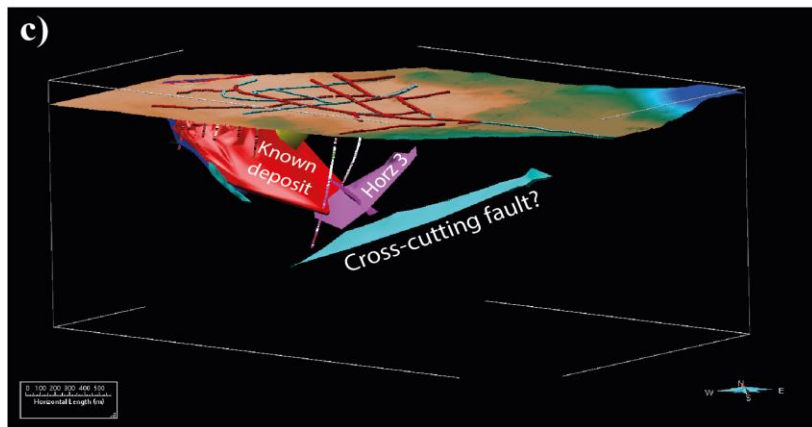
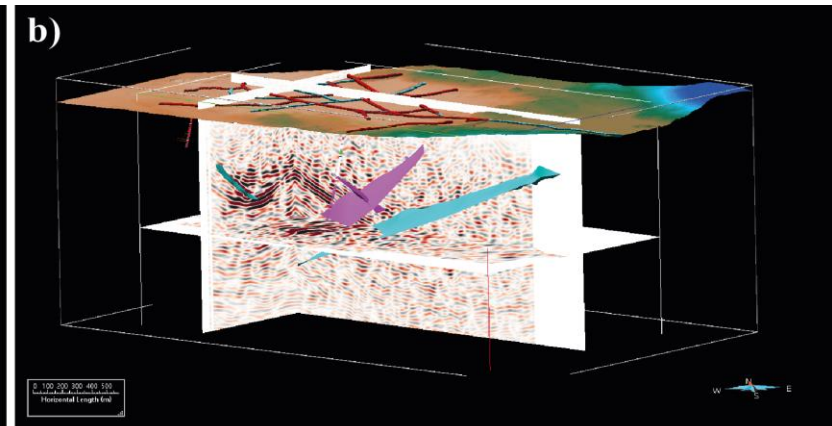
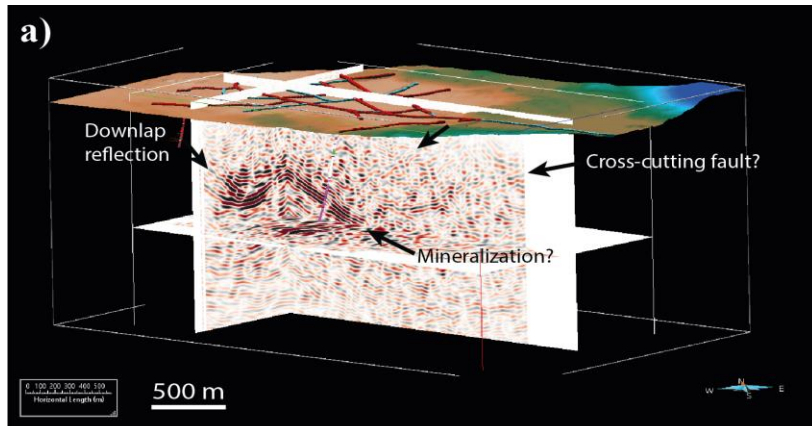


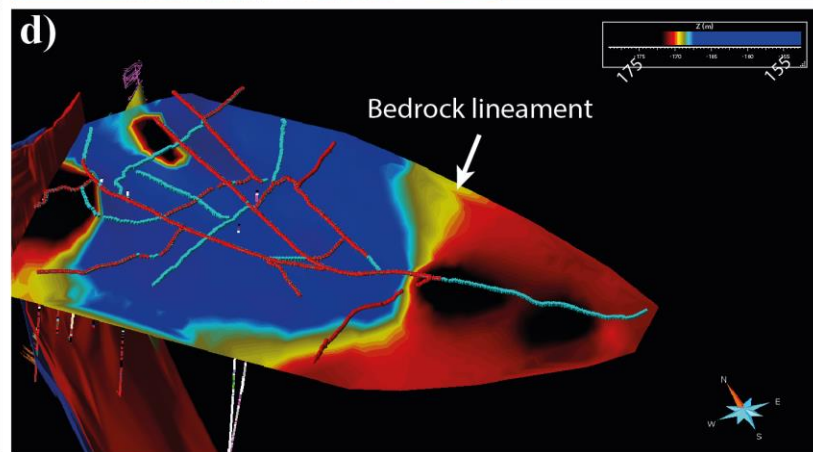
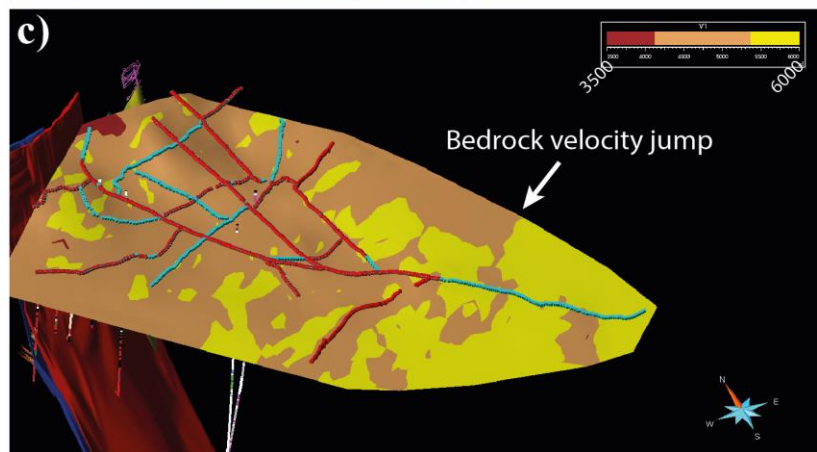
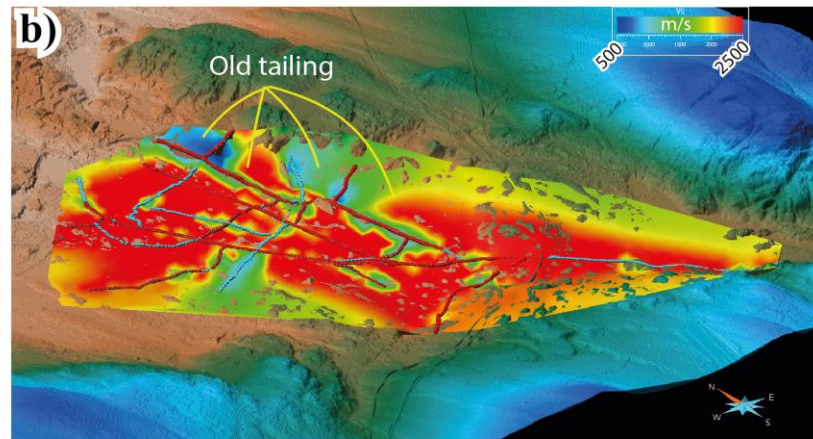
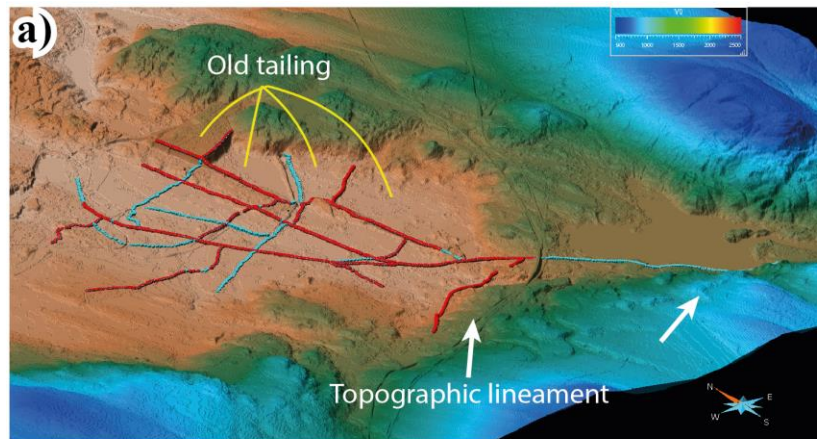


Early
gate

Intermediate
gate

Late
gate





- Provided concrete evidence of additional iron resources both laterally and horizontally.
 - Assists with defining target explorations drilling – more accurate and efficient – cost effective exploration & development
 - Assists with mine construction & development planning
- Confirmed geological structures
- Provided evidence of additional structures that will provide help in defining final mine exploitation
- Provided a platform for significant communications improvement with local society in Ludvika area, encouraged younger people in education to get involved.
- Provided good definition of ground disturbance at historic mine site, ie old tailings ponds etc which aids long term mine development and closure
- The Smart Exploration project has developed five prototypes and six methodological solutions, AMTEG has two similar, all to be made available to the mine developments in Europe. NIO with the distinct advantage of analysis of data and modelling development going forward to develop assets