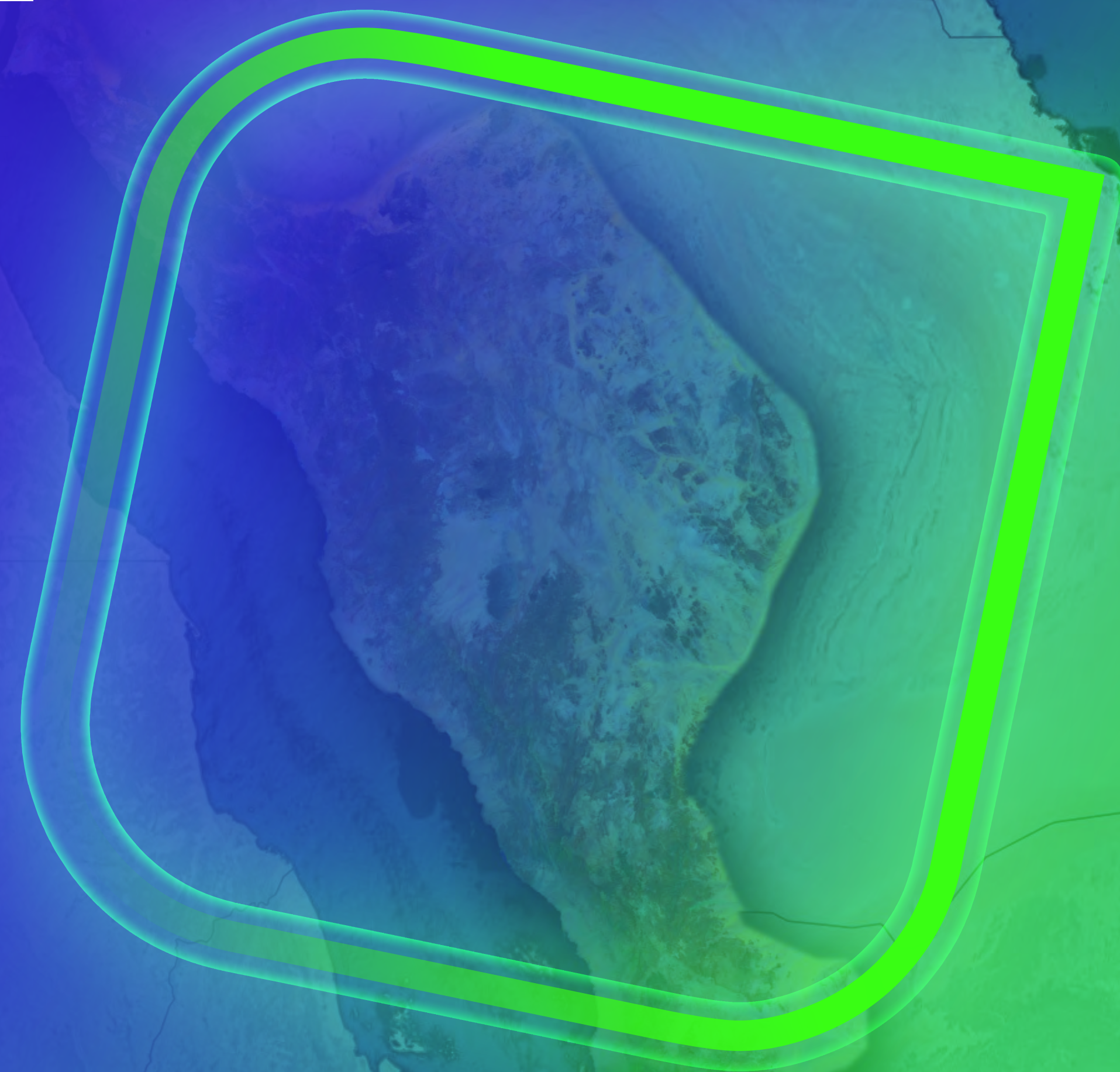


ARABIAN SHIELD - REMOTE SENSING MINERAL STUDY



SEE THINGS DIFFERENTLY

VIRIDIEN

ARABIAN SHIELD - REMOTE SENSING MINERAL STUDY

This study provides a comprehensive suite of data and services specifically designed to support mineral exploration and inform key investment decisions across the highly prospective Arabian Shield.

Our **Bare Earth Plus**ⁱ data package has been assembled to provide a detailed understanding of the region's geological characteristics and is tailored to meet the unique needs of exploration teams.

By combining our expertise in geological remote sensing and advanced data science with our in-house high-performance computing (HPC) capabilities, we deliver a robust and integrated framework for identifying and targeting key mineral systems. The data packages are delivered in full, with no subscription needed, giving complete freedom of use in current and future exploration workflows.

Read on for details on all the available datasets across the region.



Extension of ASTER Bare Earth Plus over the Arabian Peninsula.



ADVANCED GEOLOGICAL INSIGHTS FOR RAPID DECISION-MAKING

Understanding spectral information in a mineral systems context is challenging, especially if considered in isolation. Our study provides the critical geological contextualization you need for mineral exploration over the Arabian Shield, consolidated in a single, accessible resource.

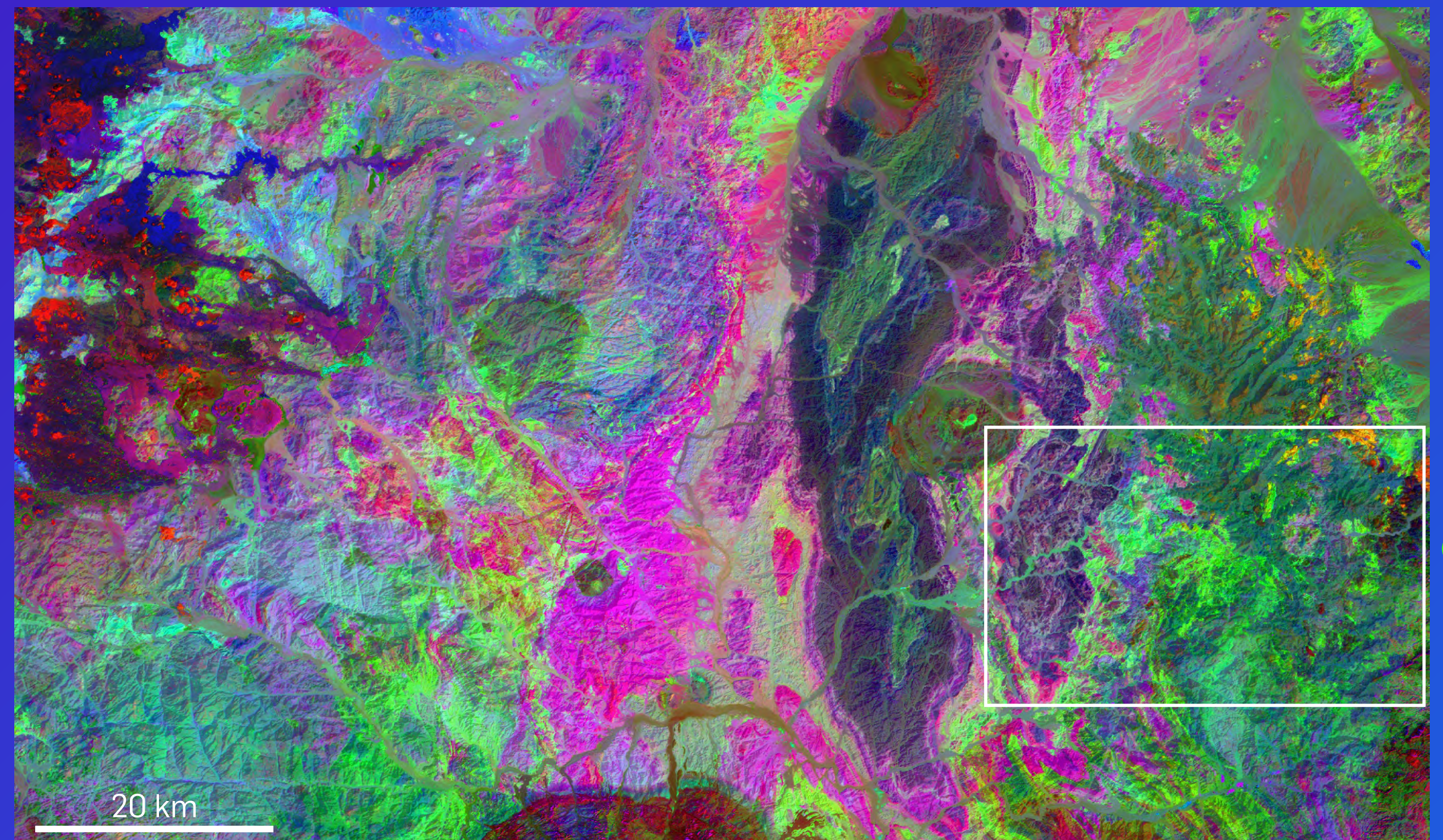


CASE STUDY: A HIGH-POTENTIAL AREA OF THE ARABIAN SHIELD

The colours within this area of interest depict various rock compositions such as iron-rich (red) and carbonate-rich (blue) rocks, and rocks with significant aluminium hydroxide content, such as shales and siltstones or hydrothermally altered rocks (green).

Sedimentary rocks of the Tura'ah Formation are visible as N–S striking folds in the eastern third of the image, characterised by light greens, yellows, pinks, and dark blues, highlighting their structural complexity and compositional variation. In the center of the folded Tura'ah Formation, the Tanbu' al Bahr igneous intrusive shows clear variability in colour, reflecting different intrusive events and/or stages of magma fractionation. To the east, the Wadi al 'Ays extrusive rocks are marked by bright green colours unconformable above the Tura'ah, distinguishing them from the surrounding lithologies.

Click on the rectangle on the right to view three **Bare Earth Plus** perspectives—including a geological map.

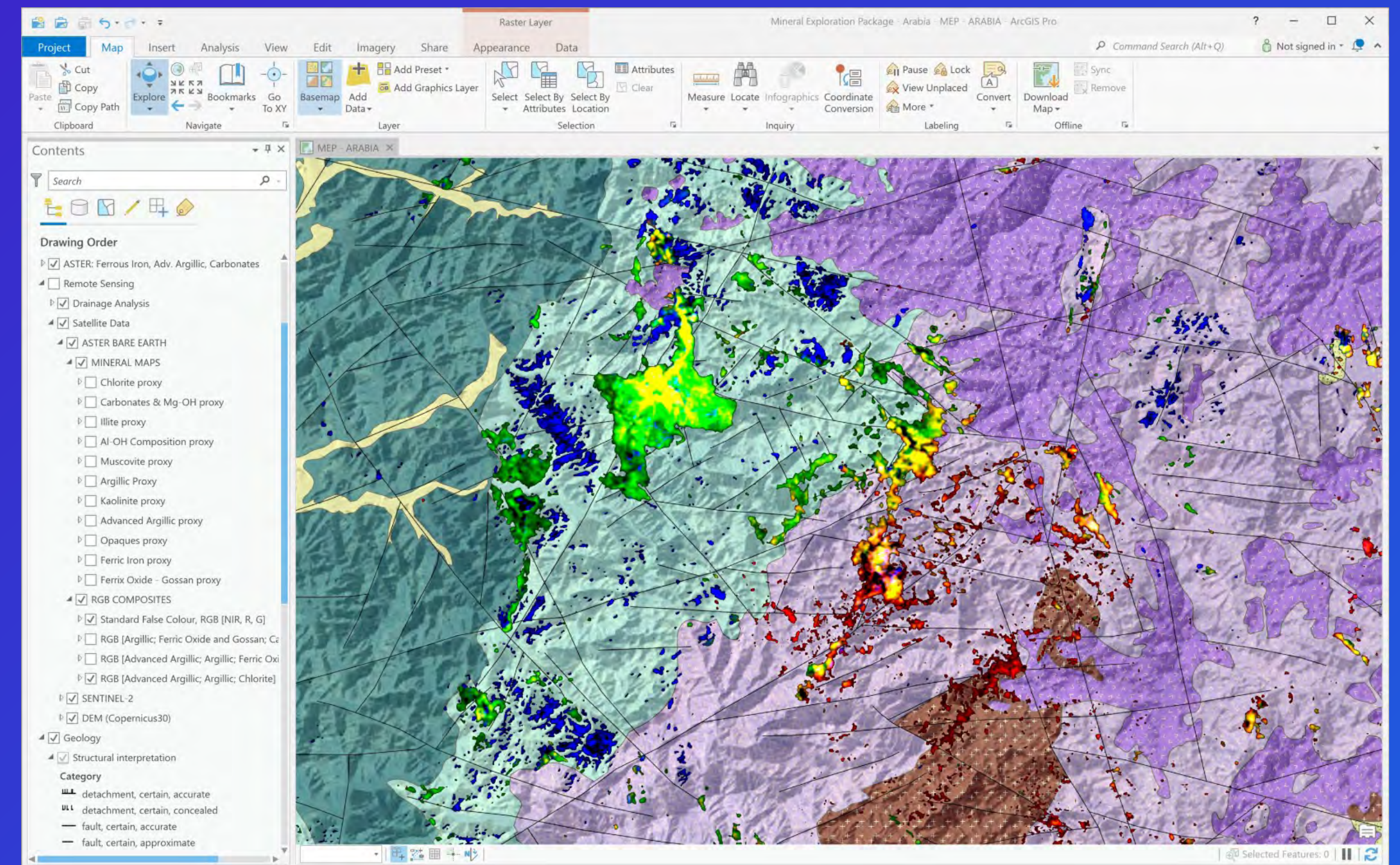


DATA INTEGRATION

Our comprehensive GIS project delivers all data in a format compatible with leading industry-standard software platforms, including ArcGIS and QGIS, as well as our proprietary Viridien **SatExplorer** platform, ensuring seamless integration and maximum flexibility.

This data package is supported by Viridien's advanced machine learning, workflows, and expert consultancy to identify areas of high mineral prospectivity. Our capabilities include:

- **Mineral prospectivity mapping:** Utilizing machine learning and expert analysis to pinpoint areas with high potential for mineral discovery
- **Multiphysics analysis:** Providing detailed insights into subsurface geology, enabling a more comprehensive understanding of the underlying structures and mineral systems
- **Integrated Earth data:** Seamless integration of data from our **GeoVerse** platform to contextualize geological and geomorphological data reveals new opportunities for exploration
- **Bespoke consultancy services:** Offering tailored support, including field-based data collection, spectral analysis, and expert classification of mineral deposits to inform exploration strategies and optimize discovery outcomes



Our custom visualization keys simplify the interpretation of complex datasets, with full, clear reporting.



CONTACT US

Get the critical insights your need to identify and target key mineral systems over the Arabian Shield with data packages delivered in full, with no subscription needed, giving complete freedom of use in current and future exploration workflows.

Data is available now!

@ Connect with us

