



ORION 3D

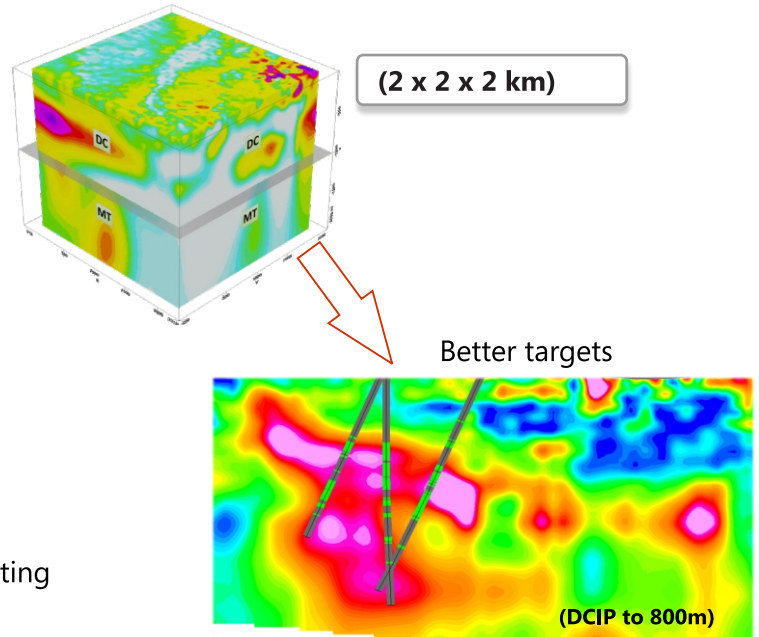
3D Distributed Multi-Parameter Imaging

Technology for Discovery

ORION 3D provides the most sophisticated and accurate electrical imaging of the subsurface available.

Full 3D data acquisition of DCIP & MT for True 3D results in complex geological environments.

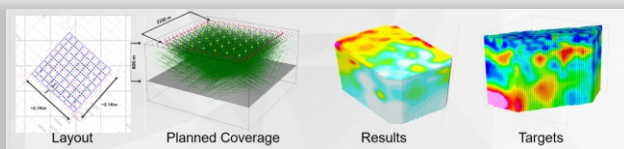
- Highlighted cross structures
- Detailed structural imaging
- Accurate target delineation
- From surface to depths of 2000+ metres (DCIP to 750m, MT to 2000m)
- Property and deposit scale imaging prior to drill programs for improved planning and enhanced targeting



Overview

ORION 3D is a multi-parameter geophysical technology providing DC resistivity, IP chargeability and deep MT resistivity, designed to provide detailed information in complex geological environments.

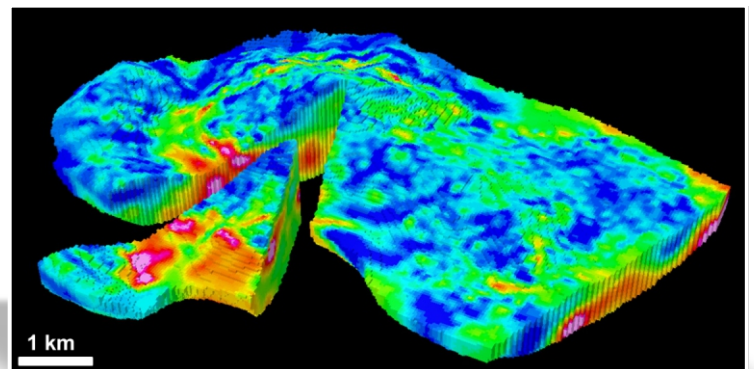
ORION3D is based on proven methods of DC Resistivity, IP Chargeability and MT Magnetotellurics and is an extension of the technology behind the successful **TITAN 2D** system. **ORION 3D** is designed to collect data in true 3D. By measuring in an omni-directional fashion all the nuances of the subsurface are captured. This yields the best possible images of the subsurface.



From design to targeting

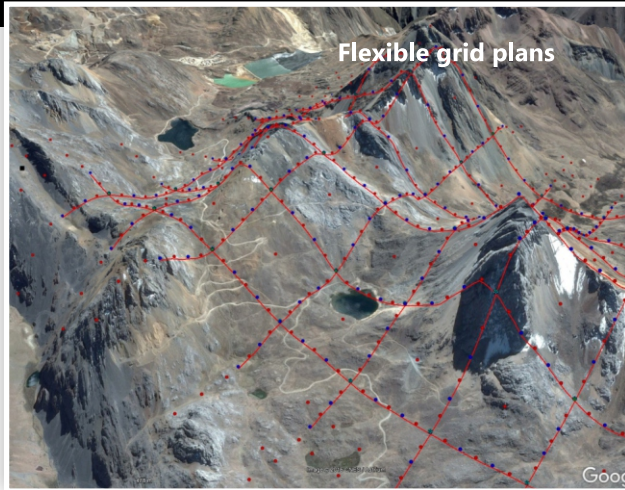
High Signal to Noise

- The high data volume and accurate measurements contribute to the overall resolution of the survey through better inversions and enhanced understanding of the subsurface.
- A typical setup can use up to 294 receiver dipoles coupled with 450 current transmits. This generates over 130,000 unique data measurements. This is a 100 fold increase over conventional approaches to DCIP surveys.
- In addition, an array of **MT stations** is recorded over the duration of the survey within the ORION3D grid to increase the depth of investigation of the survey.

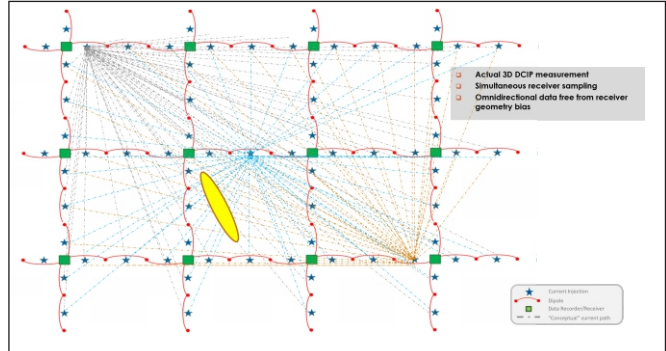




ORION 3D survey - Multi-parameter DCIP & MT



OMNI-DIRECTIONAL CURRENT PATH
provides best coupling with all features in subsurface



Example: feature energized from only 1 injection site

Simultaneous measurements at distributed receivers for every current injection

Setup (* Coverage from as small as 1 x 1 km)

- Flexible dipole lengths from 300m to 10m
- Current injections throughout the grid
- Flexible survey designs - can be set up around surface obstacles
- Orthogonal receiver dipoles deployed across the entire survey area
- Survey plan includes estimate of 3D coverage

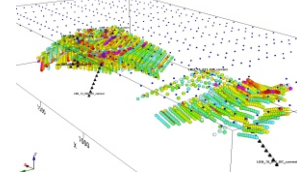
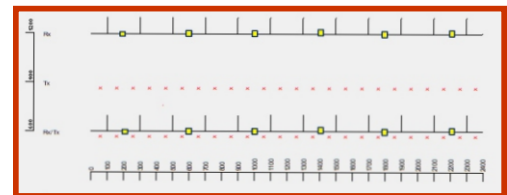
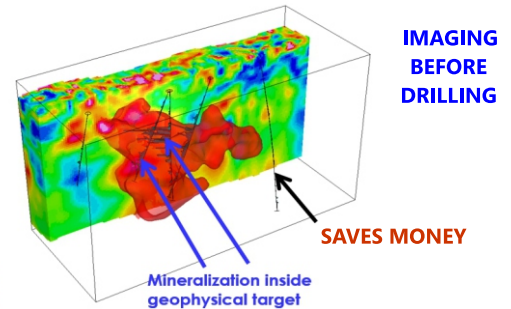
Highest Resolution

ORION SWATH

Technology configured on a 2D grid but providing 2.5 D results. Utilizes cross line dipoles for better 3D coupling.

ORION PLUS

Utilise existing boreholes to energize the sub surface from below. Adding subsurface energy improves inversion results at depth.



**Global
Office
Locations**

HEAD OFFICE

TORONTO, CANADA: +1 416 306 1941

USA: +1 403 919 6644

ARGENTINA: +54 261 496 1414

CHILE: +56 2 2368 4564

PERU: +51 54 288 686

BRAZIL: +55 61 981 230 671

AUSTRALIA: +04 10 529 992

Exploration Enquiries

info@quantecgeoscience.com