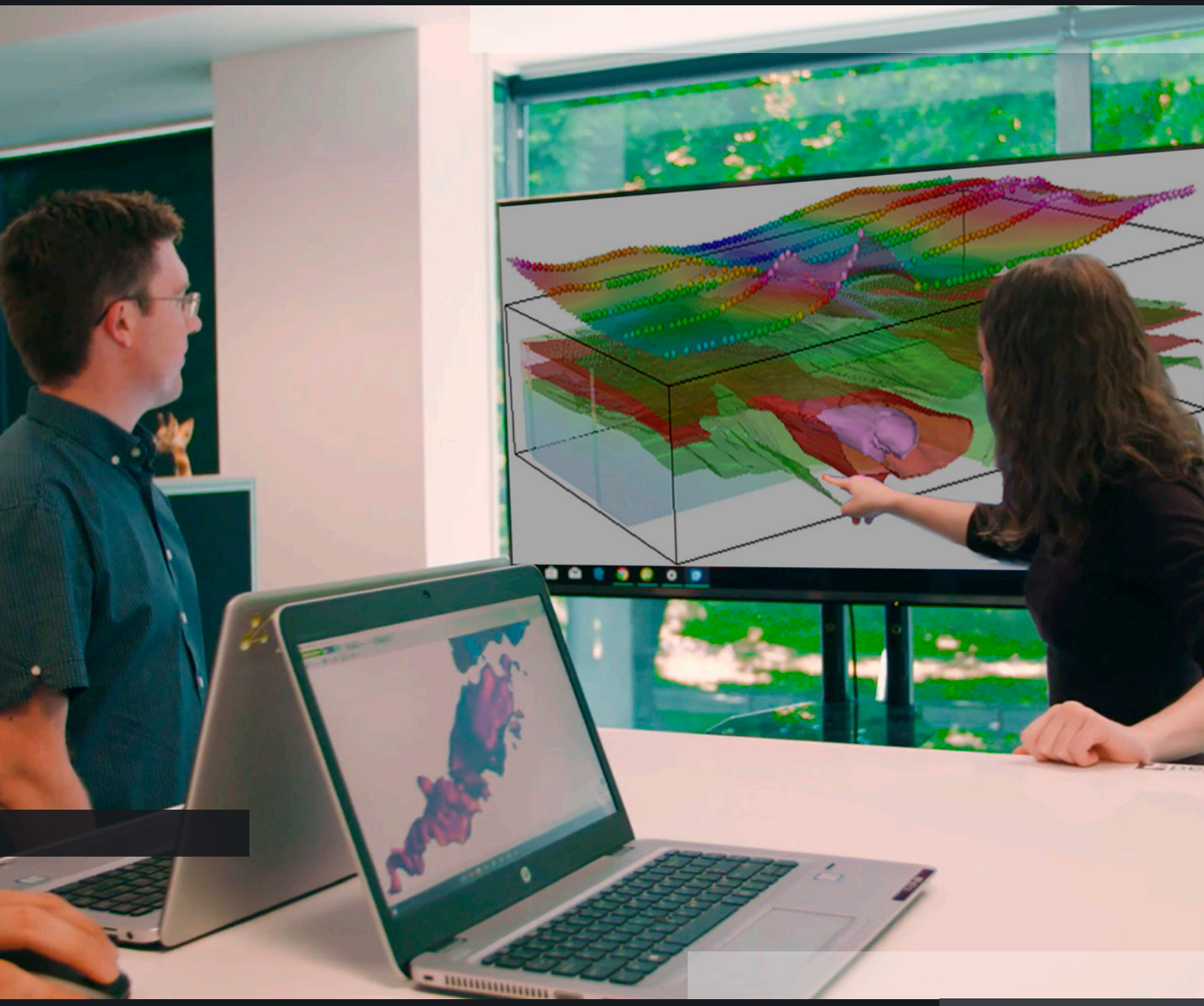
SEEQUENT



Lightning-fast, intuitive geophysical inversion with VOXI

Visualise the deep subsurface with Cloud-powered speed and responsiveness

Seequent, The Bentley Subsurface Company

Free up your computer – run inversions in the Cloud

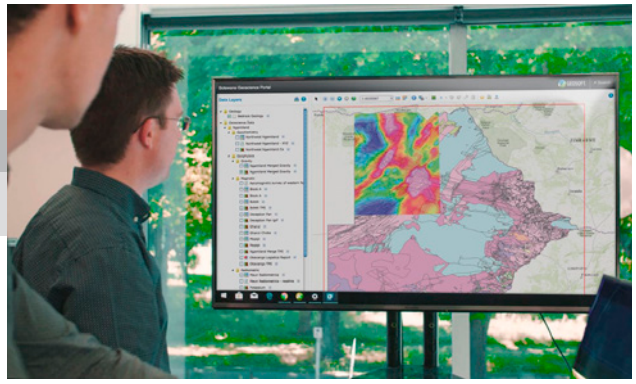
Create your VOXI project directly within Oasis montaj – the industry-standard platform for geophysics and then harness the power of on-demand Cloud computing.

Generate inversions in minutes, not days

Faster, Cloud-based geophysical inversion modelling gives you more time for interpretation and allows you to work on other tasks while your model processes remotely.

Cloud computing is available on-demand with no overhead cost or setup – simply click "Run." Ensure project data is private with a secure and encrypted connection to Microsoft Azure.





Rapidly iterate models

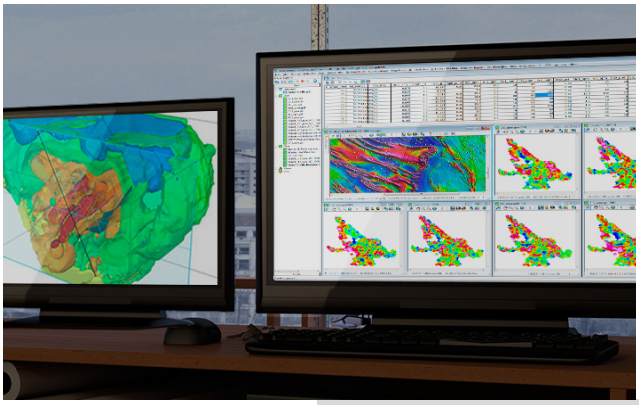
As new data and insights become available, quickly build new model iterations using data and model integration tools in VOXI. Apply new constraints and then run another inversion to test different modelling hypotheses.

Add multidisciplinary insight

VOXI is directly integrated within Oasis montaj, providing a new way to interact and collaborate on geophysical models.

Inversion models can be constrained and efficiently integrated with exploration data from other teams, including borehole data, geological models, and geochemical data.

VOXI Earth Modelling requires Oasis montaj.



Streamline model creation, data integration, and interpretation

Your entire exploration team can collaborate on geophysical models, adding 3D models and real-world observations from other software packages, including Leapfrog Geo.

Incorporate their insights into VOXI inversions or forward calculations with easy-to-use tools.



Import and organise project data

Import and work with more than 50 supported data types and formats. Efficiently store large geoscientific datasets in high-performance databases to improve data access.



Build and constrain models

Use the Model Builder to incorporate supplementary geological, geophysical, and geochemical information. Automatically apply these models as constraints to the inversion.

The defaults are auto-populated and the math is applied automatically, making creation of constraints easier and freeing up your time for interpretation.



Sharpen contacts

Iterative Reweighting Inversion (IRI) takes a smooth earth model and uses it as a reweighting constraint when running a new inversion of the same data.

Model sharper contacts in the inversion result to create more refined targets. IRI is automated, saving processing time so that your results are available faster.



Model conventional gravity and magnetic field data

Generate forward and inverse models of conventional gravity and magnetic field data. Create density and susceptibility models quickly and easily. Constrain results by incorporating information from geological, geochemical, or geophysical observations.



Model gravity gradiometry data

Run inversion and forward modelling on gravity gradiometry data. Yield a detailed 3D model of rock density to be used to interpret and to target regions for potential oil, gas, and mineral deposits.

Generic vertical gravity gradient data is supported as well as direct import of two common data types: Falcon AGG data and Bell Geoscience/ ARKeX LM FTG data.



Model the 3D magnetisation vector

Traditional susceptibility inversions assume that subsurface magnetisation is in the direction of Earth's magnetic field. More often than not, this assumption is false and can yield inaccurate inversion results.

Magnetisation Vector Inversion (MVI) is a method that solves for both magnitude and direction, which has been shown to coincide more closely with known geology than traditional susceptibility models.



Model frequency domain EM data

Invert frequency domain horizontal coplanar configuration electromagnetic (EM) data to produce a voxel conductivity model. Then, integrate this conductivity model with your gravity and magnetic inversions into a geophysical or geological interpretation in Oasis montaj.

The FDEM inversion is based on 1D inversions interpolated along and between lines, suitable for airborne frequency domain systems such as Dighem or Resolve.



Model time domain EM data

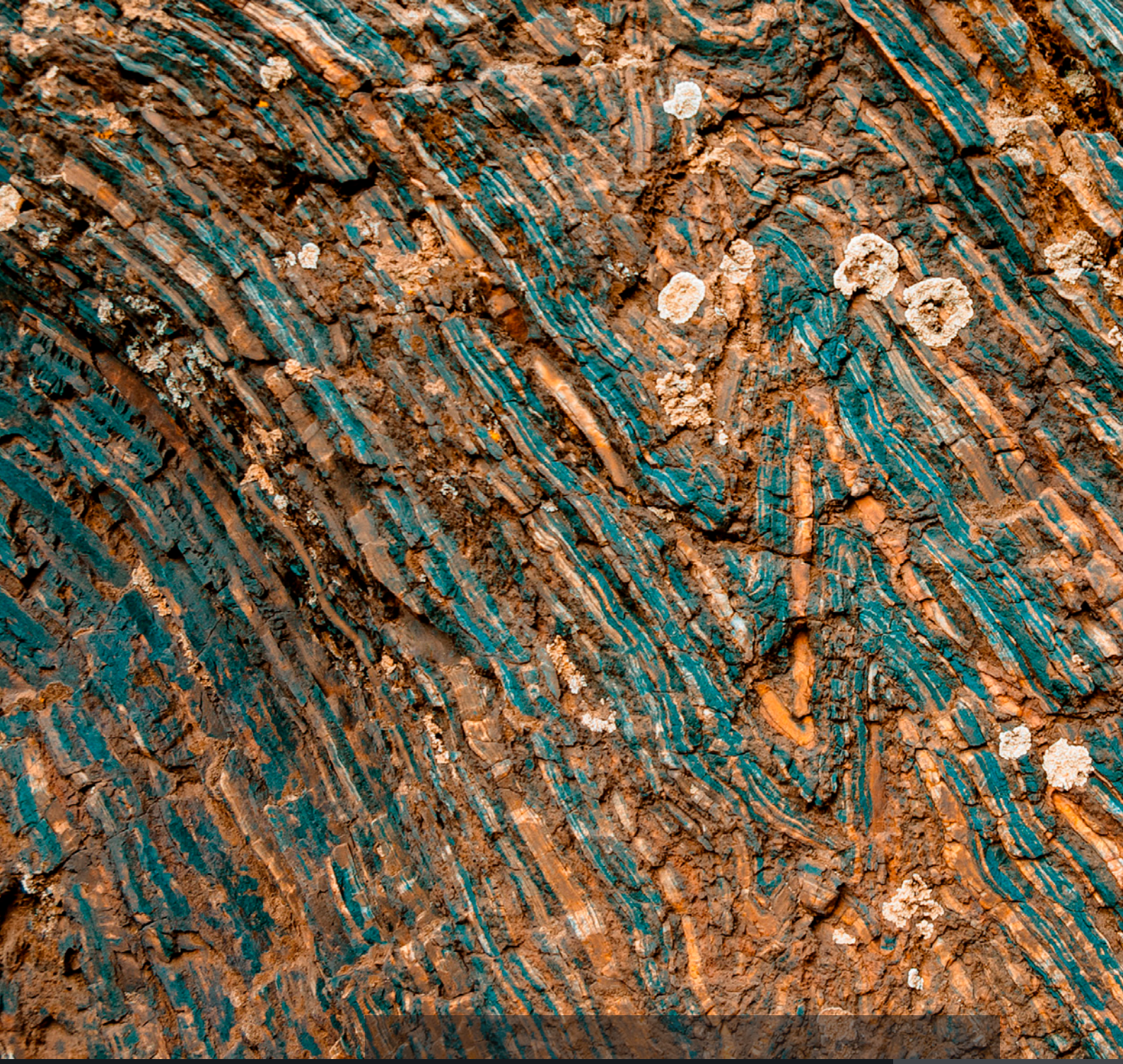
Model subsurface conductivity using the VOXI Time Domain Electromagnetic (TDEM) inversion method which supports a variety of transmitter configurations, such as the SkyTEM, Geotech VTEM, and NRG Xcite airborne EM systems.



Model IP and Resistivity data

Yield a detailed model of conductivity and chargeability through inversion and forward modelling of conventional IP and resistivity data as well as spectral IP data.

Create full 3D or along-profile models from any electrode configuration. Use the resulting models to interpret and target regions for mineral and environmental applications.



SEEQUENT

A better understanding of the earth
creates a better world for all

seequent.com

phoenix
GEOSYSTEM INDONESIA

Company Name PT. Phoenix Geosystem Indonesia

Address : Rasuna Office Park, 2nd Fl, Unit GO-01
Jl. HR. Rasuna Said Jakarta 12960 Indonesia
Website : www.phoenix-geosystem.com
Email : info@phoenix-geosystem.com

Seequent, The Bentley Subsurface Company