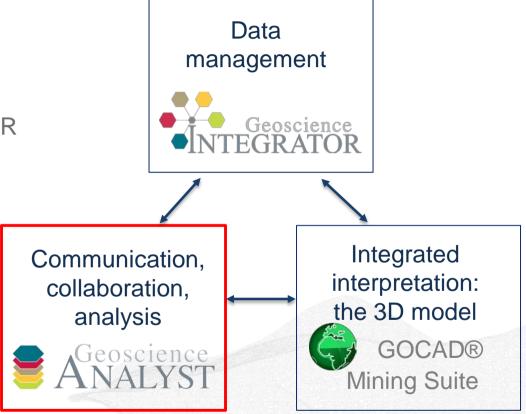


Geoscience ANALYST introduction

Presenter: Glenn Pears

Our products

- GOCAD Mining Suite
- Geoscience INTEGRATOR
- Geoscience ANALYST
- VP Geophysics Suite
- UBC-GIF





Geoscience ANALYST software structure

Free 3D viewer

Import and compile Visualize and query Edit and annotate Save and share

Pro package ioGAS Link Drillhole Designer Maxwell Link Basic geophysics (new functionalities next release) **Pro Geophysics package** Front end to UBC-GIF (codes not included) VPmg and VPem1D (codes included)

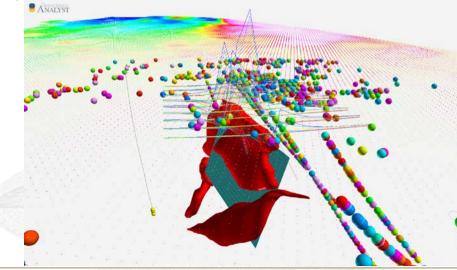


Geoscience ANALYST - Free 3D viewer

Key features:

- Standalone application that allows users to import, visualize, annotate, save, and distribute 3D geoscientific data, models, and files.
- Imports ASCII, ESRI, Geosoft, geo-referenced images, DXF, Datamine, Maxwell, UBC-GIF, and GOCAD Mining Suite files/objects, more.
- Export csv, drillholes, points, curves and surfaces in GOCAD format.
- Direct access to data values (not just a viewer).
- Add your own data to existing projects.

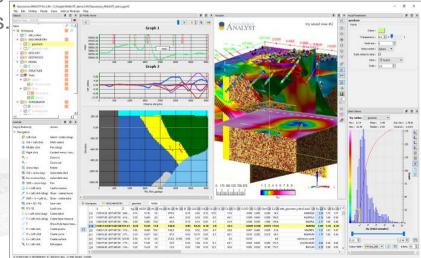




Geoscience ANALYST - Free 3D viewer

More features:

- Includes map and 2D profile viewer.
- Attach comments and external files to objects and folders.
- Annotate directly in Viewport through labels.
- Advanced interactive model clipping and slicing.
- Drape points, curves, and surfaces on surfaces.
- Texture drape geo-images and grids on 2D surfaces.
- Connect to Geoscience INTEGRATOR.





Geoscience INTEGRATOR

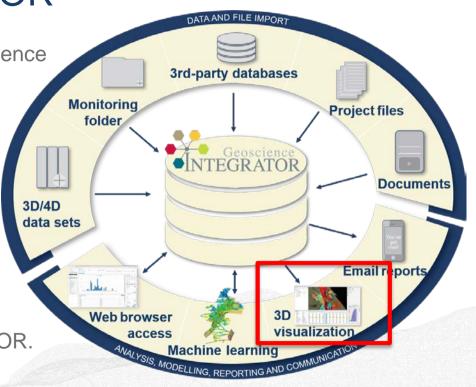
Single repository for 4D mining and geoscience data, metadata, models.

Powerful contextual 4D query capability.

Data integration for machine learning.

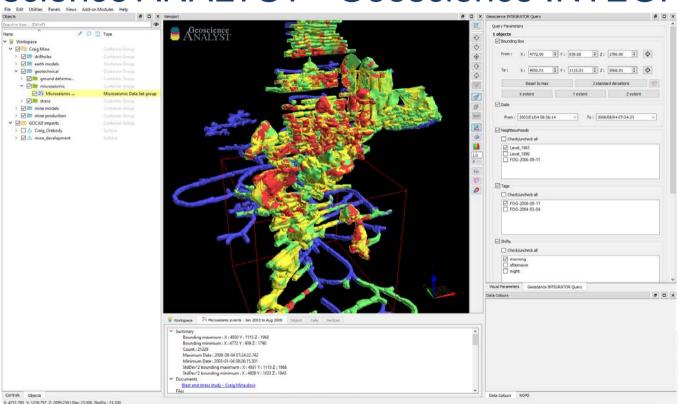
Automated import and reporting.

Geoscience ANALYST is the 3D visual query interface to Geoscience INTEGRATOR.

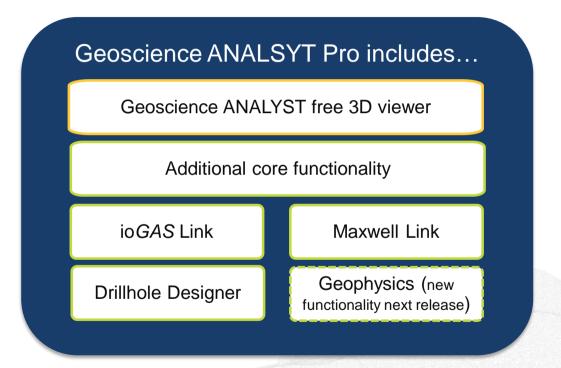




Geoscience ANALYST - Geoscience INTEGRATOR







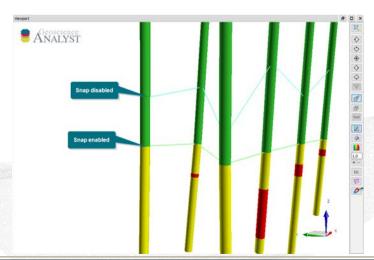


Additional functionality for low-cost.

Additional core functionality...

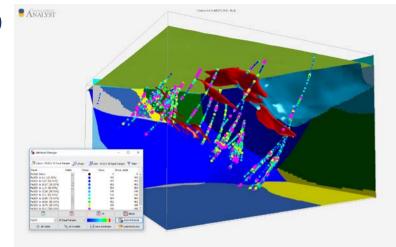
- Digitize new points, curves, and surfaces (snapping functionality).
- Edit points, curves, and surfaces (translate/rotate/scale objects).
- Transfer grid data to points, curves, and surfaces.
- Interpolate point, curve, and surface data to 2D grids.
- Edit data table entries.
- Desurvey drillholes to create points.
- Transfer point data to drillholes.
- Design 2D grids.
- Undo/redo functionality.
- Includes support.





ioGAS Link...

- Live connection to ioGAS.
- View points with ioGAS attributes.
- Real-time attribute updates.
- Real-time ioGAS data addition updates.
- Synchronize utility to push data edits and additions to ioGAS.
- Ability to save linked ioGAS data after disconnecting.
- Ability to use ioGAS's graphs, maps, utilities, stereonet, gridding, and statistical tools.



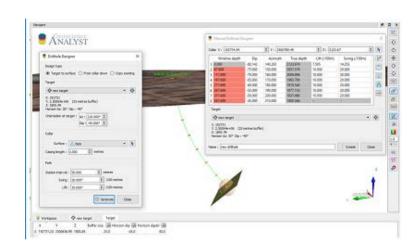


Does not include the ioGAS application developed by the REFLEX GEOCHEMISTRY team.

<u>Drillhole Designer....</u>

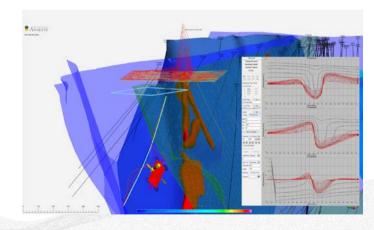
- Design new drillholes from target to surface
 - oriented buffered target creation and edit utility.
- Design new drillholes from collar down
 - Casing length, azimuth, dip, lift, swing, and station interval parameters.
- Design new drillholes from existing ones.
- Design drillholes manually.
- Change collar location, modify deviation station dip, azimuth, lift, and swing parameters.
- Insert and delete deviation stations manually and at surface intersections.





Maxwell Link...

- Live connection to Maxwell EMIT ElectroMagnetic Imaging Technology software.
- Dynamically manipulate plate geometry directly in the viewport.
- Manipulate plate geometry through visual parameters.
- Move plates by dragging in the viewport.
- Broadcast plate geometry, visual parameters, and data updates from and to Maxwell.



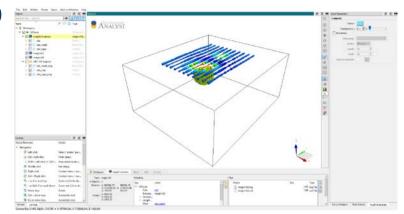


Does not include the Maxwell application developed by the EMIT ElectroMagnetic Imaging Technology team.

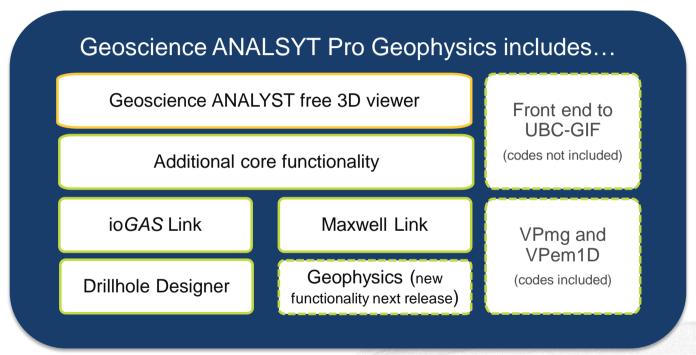
Basic geophysics....

- Minimum curvature gridding.
- Geophysical filters.
- Trend removal.
- EM loop modelling.
- Visualization of EM time domain decays.
- Forward modelling and unconstrained inversion (gravity, magnetics, gravity gradiometry) powered by our unique VP geophysical modelling technology that can operate directly on geological models.
- Geophysical survey design simulation of data acquisition through forward modelling.





Geoscience ANALYST – Pro Geophysics

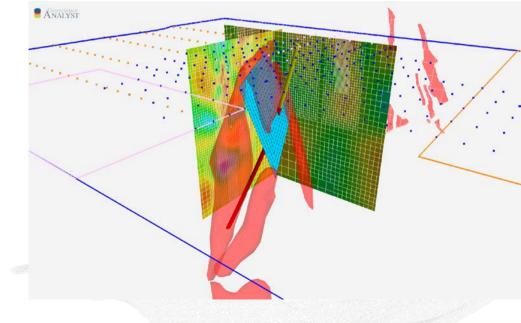




Geoscience ANALYST - Pro Geophysics

Features:

- Constrained and unconstrained inversion of potential fields, resistivity, induced polarization, and electromagnetic data.
- User interface to UBC-GIF codes to prepare data, create meshes, incorporate constraining geologic information, run inversions, and visualize results in an integrated 3D environment.
- Unlimited access to VPmg and VPem1D (standalone software).





Geoscience ANALYST - Pro Geophysics Consortium

Vision:

- Deliver software and methods that make the use of advanced geophysics a day-to-day, practical reality for industry.
- Emphasize the development and use of UBC-GIF, VP Geophysics Suite, and open source initiatives, along with codes from other academic research groups.
- We will not be focused on furthering fundamental research into the computational algorithms themselves.

Deliverables:

- Tiered corporate licensing.
- GIFtools (UBC forward modelling and inversion) and VPmg.exe and VPem1D.exe.
- Annual meeting in Vancouver.
- 50 hours of support or training per year and steering committee*.

