Geolitix

Cloud-Based platform for GPR processing

Developed to be a complete solution for GPR data analysis, **Geolitix** is **easy** to use yet has all the complex features you need for **advanced projects**. Geolitix **improves your survey efficiency and accuracy** by harnessing the power of cloud computing to enable the seamless importing, editing, analysis, and interpretation of underground imaging data.

Don't miss the opportunity to try it!

Register

NOVATEST Engineering Solutions

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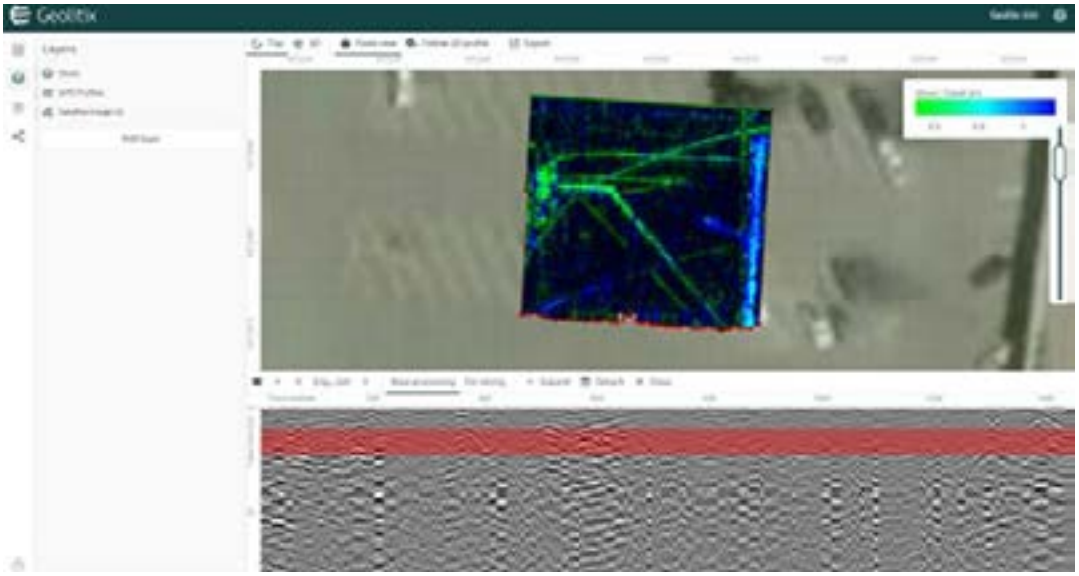
Project Collaboration and Sharing

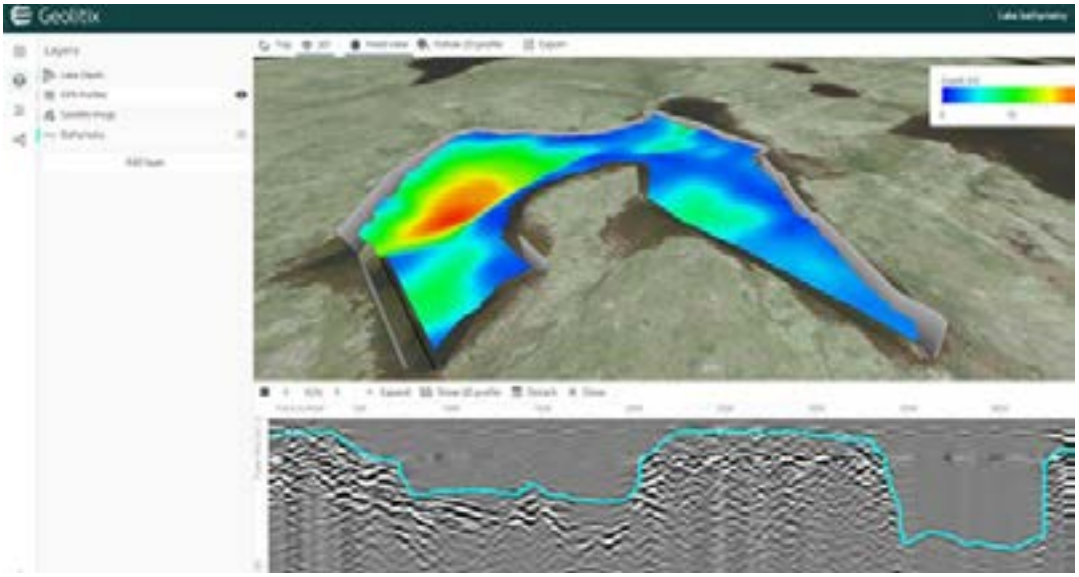
Geolitix allows you to seamlessly collaborate with colleagues with just a click. You can upload data from the field, immediately interpret it in the office and share project elements live with stakeholders. Geolitix offers licencing structures for all users, from students to large enterprises with multiple sharable licences.

Working with GPR

You can import data from any single or multichannel GPR system into Geolitix by simply dragging and dropping. Any survey geometry can be used, from simple grids to complex GNSS or total-station tracked surveys. The platform incorporates all processing and interpretation functions in a user-friendly interface. GPR data can be automatically processed using Geolitix's unique algorithms.

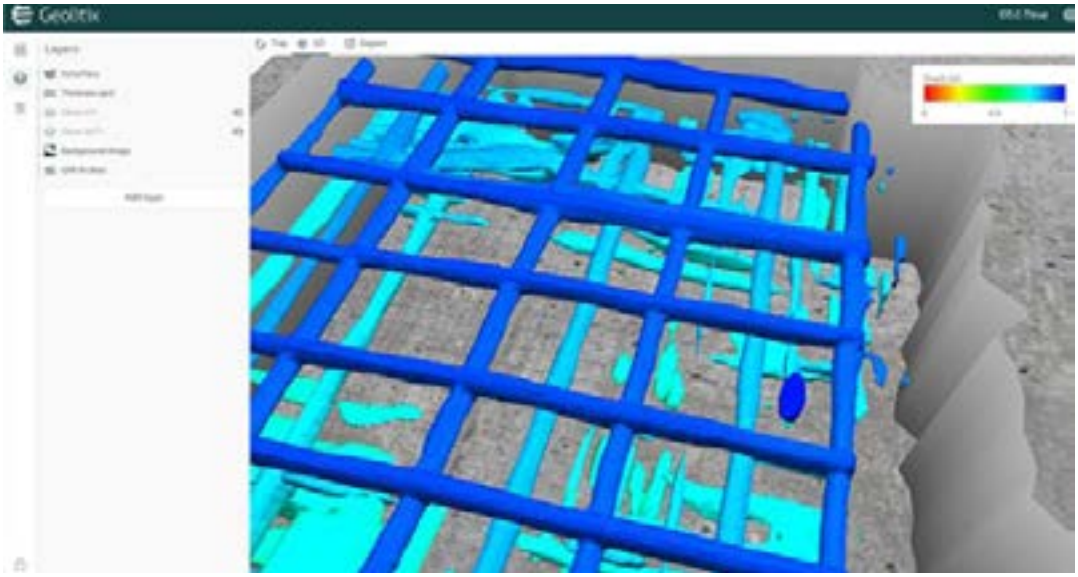


Geolitix allows you to slice your 3D or multichannel GPR data with a few clicks. Complex parameters are suggested for you, allowing you to focus on data analysis.

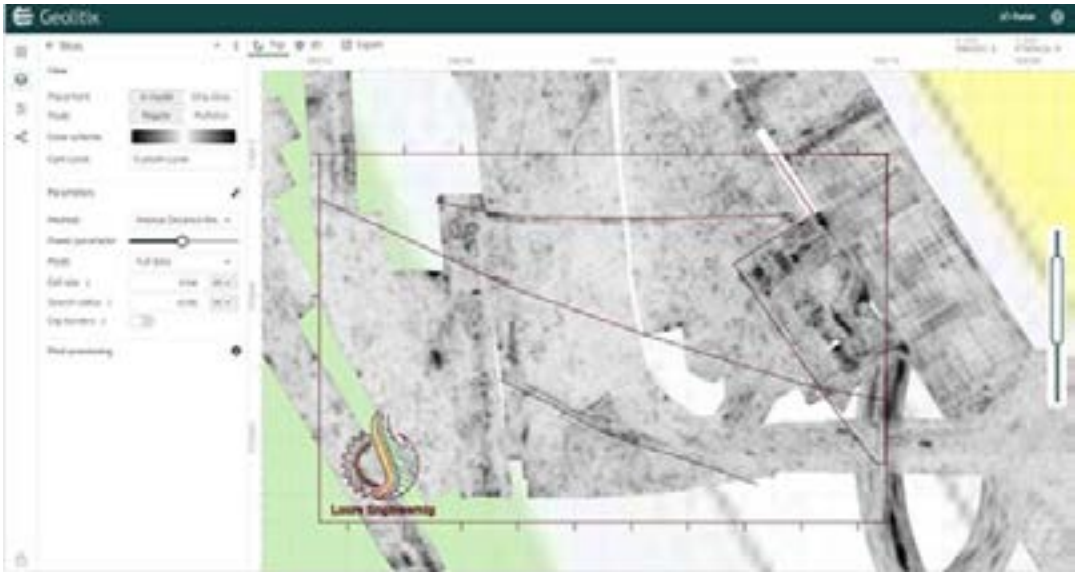


Creating 3D surfaces of geological layers or thicknesses is easy with Geolitix. Simply select the interpreted layers you want to map and the gridding parameters are automatically calculated for you.

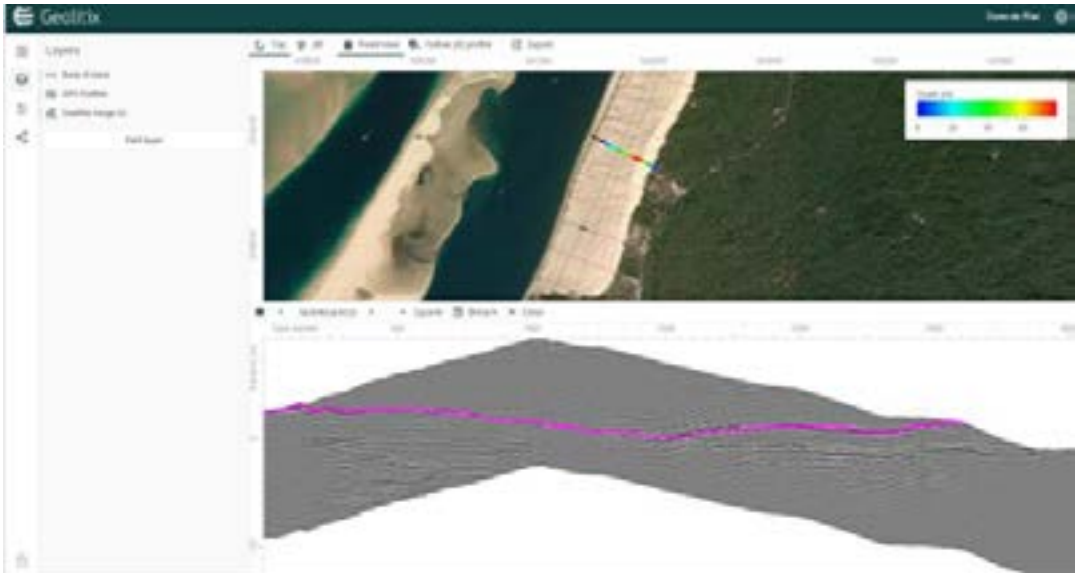
Rebar corrosion and pavement delamination can be visualised by mapping GPR reflection amplitudes. Geolitix generates these maps in seconds—there's no need to perform calculations or import data into other software.



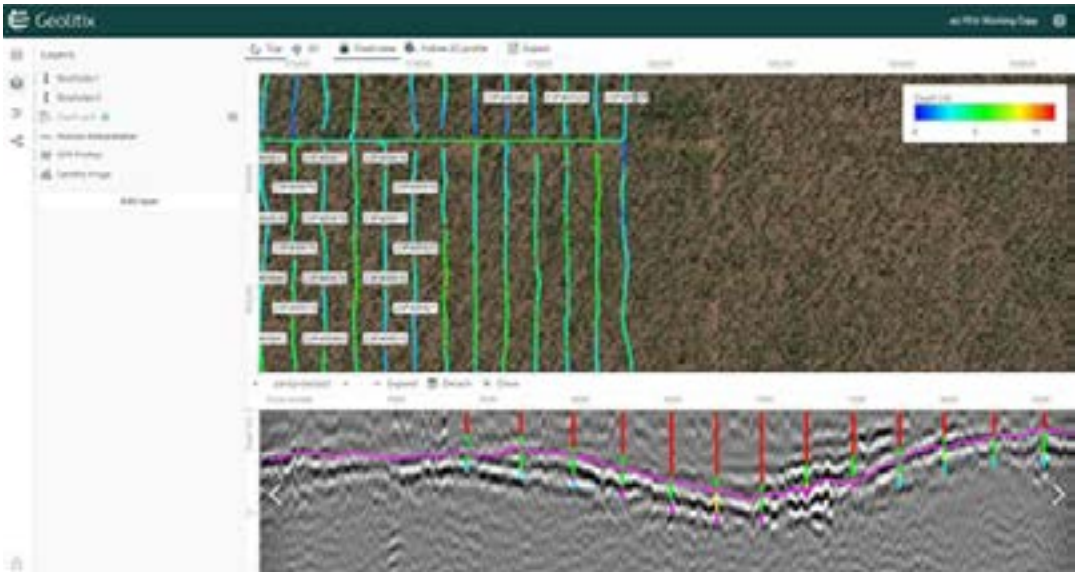
For some applications, such as rebar or void mapping, you may need to create a 3D model of a radar target. Geolitix can easily create 3D isosurface models from GPR profiles for a better understanding of discrete targets.



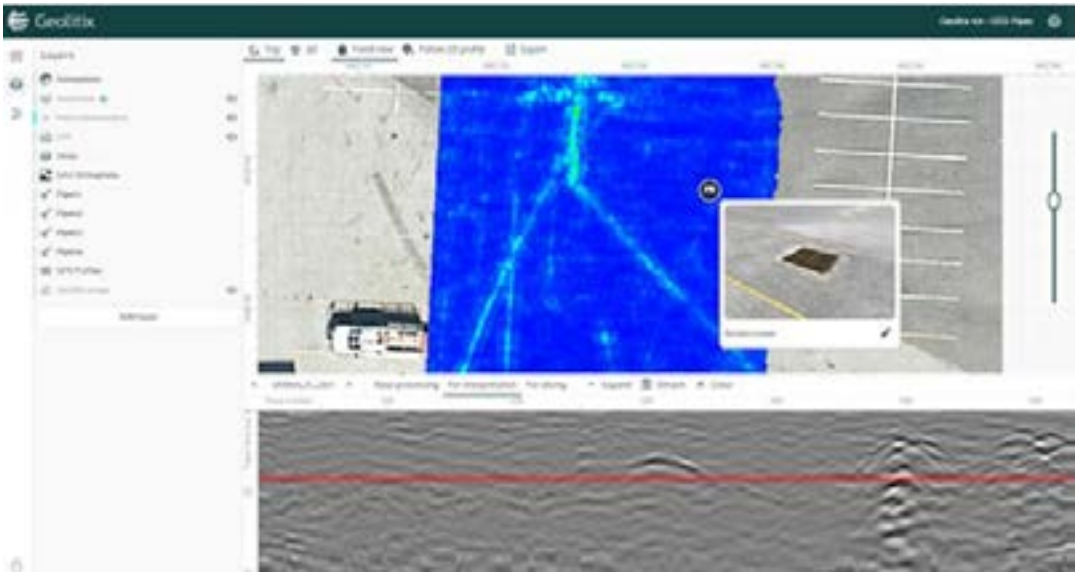
Add context to your subsurface data by adding layers with CAD maps, satellite imagery, your own georeferenced drone images or other spatial datasets in grid files.



Geolitix offers powerful tools for interpreting your data, enabling you to define 3D points, horizons, or polylines for pipes and cables, as well as vectorised drawings. Each of these layers can be re-ordered in the manner of GIS software, as well as exported in a variety of georeferenced formats.



Drilling and coring data can be imported to assist in data interpretation. Geolitix displays lithologies with colour codes and multiple assay results. Drilling data are automatically projected onto the nearest subsurface profiles within a user-specified distance.



Photos and notes taken in the field are invaluable for later interpretation of subsurface data. Photos taken with GPS-enabled phones and cameras are automatically placed in the correct position on your project space.

Applications:

Mapping Utilities
Pipes, cables and USTs are easily detected and mapped using single or multichannel GPR data for output to AutoCAD® or Google Earth™.

Rebar and Bridgedecks
Geolitix automatically detects and positions rebar in concrete and bridge decks in 3D, allowing the system to generate maps of rebar depths and corrosion conditions in Google Earth™.

Pavement Analysis
Geolitix is designed for large datasets where roadbed layers are automatically detected to produce layer maps.

Forensics and Archeology
In just a few clicks, GPR field data can be visualised in 3D to produce detailed maps highlighting subtle targets such as graves and foundations.

Railbed Analysis
Large multichannel GPR datasets can be easily processed and interpreted to show the depth and texture of ballast.

Geological Mapping
Data from low-frequency GPR systems can be interpreted in a 3D-aware environment to build exportable geological models.

Drone GPR
Data from airborne GPR surveys can be processed with discrete targets and horizons displayed in 3D and exported to Google Earth™.

Register now on the Geolitix platform and start exploring its endless possibilities!

Register now