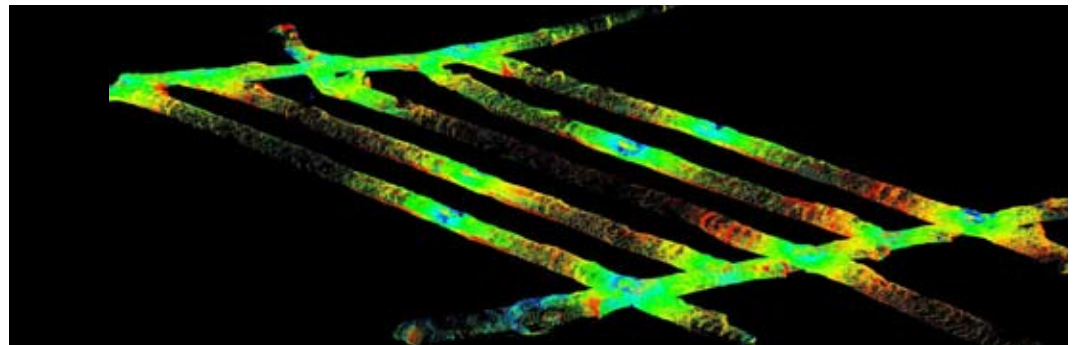


## Surveying Underground Drives

The Maptek I-Site™ 4400 3D laser scanner can rapidly obtain very detailed information from underground drives and stopes. I-Site technology collects survey points like conventional surveying methods - with a distinct advantage in its speed of data capture and ease of use.



Filtered I-SITE data of an underground development drive, coloured for differentiation

### HIGHLIGHTS

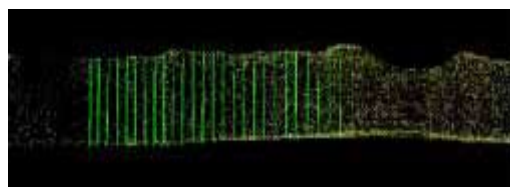
- Rapid operation
- Very detailed information captured compared to traditional survey methods
- Safety is paramount without compromising accuracy
- Intuitive, easy to use software
- Wide choice of filtering and export options for processing all types of data

The I-Site 4400 laser scanner can capture 3D point clouds of any scene in seconds. Highly accurate models can be developed from this data for volume reconciliations. Polygon strings can also be created for design work.

Colouring the scan data by intensity allows a geologist to map structural and lithological information. Combined with the low light option and I-Site's incredible photo capturing capability, intense detail can be captured quickly.

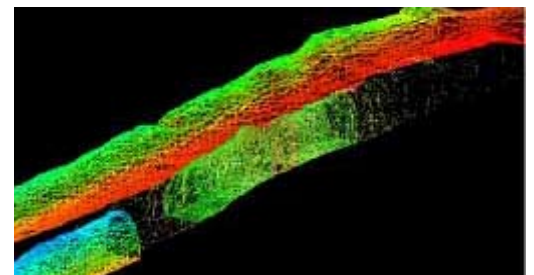
The density of the point cloud data acquired by the scanner provides the added option of creating triangulation models in I-Site Studio™ software, for digitising features. The point cloud itself is adequate for designing any CAD features, eliminating the arduous task of modelling complex drives.

Using I-Site Studio's smart 'Loop Wrap' option, closed polygons can be created from any point cloud in any view (*below*).

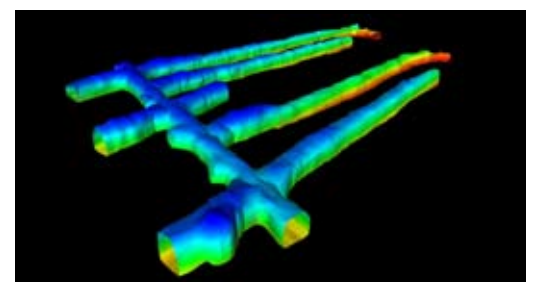


This reduces the size of a model while still retaining the detailed information required for volume calculations

If for example there are vehicles or machinery in a drive you can simply create closed polygons on either side of these unwanted objects, reducing post processing time in filtering and editing. Vent bags and service pipes are easily removed with the delete and/or crop options.



Wireframe model plus loop wrap sections



Triangulation of underground drive