FOR RELEASE

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Maptek releases I-Site Studio 6 point cloud modelling tools

The latest I-Site point cloud processing tools from Maptek focus on the everyday needs of mine surveyors for fast, accurate volumes, conformance reporting, geotechnical analysis and CAD design.

I-Site Studio software offers an expanding range of applications with increasing sophistication. I-Site Studio 6, released today, provides exciting new tools and requested enhancements.

New CAD design tools include user friendly preferences for snapping to angles and points. Other in-demand items include auto registration and alignment of scans, complex surface modelling, waviness analysis for geotechnical modelling and analysis.

‘Surveyors are under pressure from all departments to quickly and safely survey active mining areas. This is on top of recurrent stockpile volumes and active mining face updates,’ said Jason Richards, Global Business Development Manager for Laser Imaging Solutions at Maptek.

‘With I-Site Studio 6 they have access to geotechnical analysis, conformance reporting, CAD and geology tools in one package. Surveyors can respond to virtually any request, with accurate results and timely reports that are used by all mining departments to meet operational objectives.’

Survey data plays a vital role in safety management programs. Accurate information is mandatory for identifying areas of structural weakness that can affect mine planning and operational decisions.

New and enhanced geotechnical options in I-Site Studio 6 provide powerful analysis tools for understanding structural relationships. Creating solids from discontinuities helps determine wedge shape, size and volume. Dynamic adjustment extends discontinuities to assess the potential persistence across pits or structural domains.

Stereonet improvements include new tools, preferences and workflows. A direct link between the interactive stereonet and 3D views allows users to select discontinuities in the 3D view window in order to highlight them on the stereonet.

Kinematic analysis has been overhauled in I-Site Studio 6. Defaults for failure types have been added, and failure zones are automatically shaded to highlight areas of potential failure on the stereonet. Dragging and dropping the discontinuity of the slope face onto the kinematic slope orientation fields automatically displays failure zones.

New CAD tools allow users to create CAD design outlines direct from 3D point cloud data, streamlining everyday survey and engineering tasks.

‘Snapping preferences streamline CAD workflow and allow users to digitise from real world to CAD environment,’ commented Richards. ‘It’s easy to draft haul roads and ROM pad layouts, add strings for stockpile shadow zones and create CAD footprints of structures on site.’

A new 3D complex surface modelling tool produces a 3D surface that honours the original point cloud data, conforming around walls, curves and tunnels, as well as creating another surface by averaging the point set.

I-Site Studio 6 contains intuitive new tools for defining geological contacts direct from 3D point cloud data. Options such as applying patterns and fills to geological domains streamline mapping workflow.

I-Site Studio makes the most of the output from up-to-date terrestrial scanning instrumentation and faster survey processes. Mining professionals can generate reliable, repeatable, high quality reports. Customisable templates allow images and documents to be added so that one click generates a report that can be passed to production.

A new volume reporting tool applies a base surface, stockpile surfaces and polygons to generate volumes for multiple regions in one pass. Design conformance reporting allows users to compare a design surface to as-built and other surfaces, summarising sections, underdig, overdig, and percentage of volume variance.

Surveyors are under increasing pressure to hand off results that are accurate and easy to understand, and they are being asked to do so with shorter turn-around. So the quicker they can compile accurate and meaningful reports the better.

This release marks 15 years since Maptek began developing the unique I-Site spatial modelling software.

‘I-Site Studio has matured into a powerful, fully functioned software package that does more than just process point clouds,’ concluded Richards. ‘Accurate data is crucial to a mine’s success. I-Site Studio makes survey data understandable and useful for all stakeholders.’

More information about the release can be found here

About Maptek

Founded more than 30 years ago, Maptek™ is a leading provider of innovative software, hardware and services for global mining. Maptek solutions are used at more than 1800 sites in 75 countries, with applications across the mining cycle. Maptek develops industry-leading software Vulcan™, Eureka™, Evolution and BlastLogic™ for mine evaluation, planning, design, scheduling, operation and rehabilitation. I-Site™ is integrated hardware and software for 3D laser scanning, surveying and imaging. The spatial data collected can be used for geotechnical analysis, stockpile measurement, design conformance and movement tracking supported by software systems I-Site Studio, Drive, PerfectDig™ and Sentry.