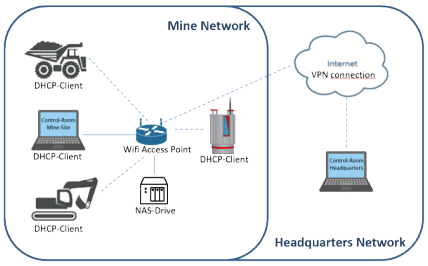
RIEGL Mining Apps

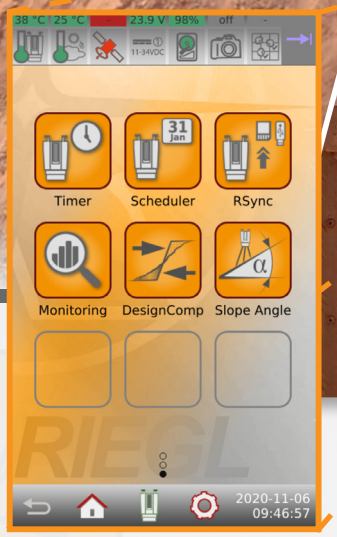
Real Time Analysis & Processing of VZ-i Data

Remote operation and automation are keywords of our time, even applying itself to the mining industry. The VZ-i Series of 3D terrestrial laser scanners are ready to meet these demanding challenges.

RIEGL presents three easy-to-use and intuitive mining apps that will support users in their daily work, especially in critical situations. Based on reliable real-time data, necessary decisions can be made promptly on a sound basis.

RIEGL's 3D terrestrial laser scanners can smoothly be integrated in any network infrastructure by using LAN, Wi-Fi, and LTE-interfaces. This enables fully remote operation of the scanners. With the installation of customized apps for automatic data acquisition and data processing, the user gets real-time results without any data post processing.





RIEGL **Monitoring App**

RIEGL **Design Compare App**

RIEGL **Slope Angle App**

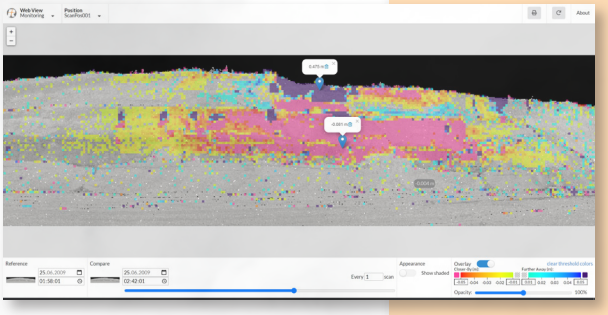
Scan this QR-Code to watch the Mining App Video

www.riegl.com

RIEGL®

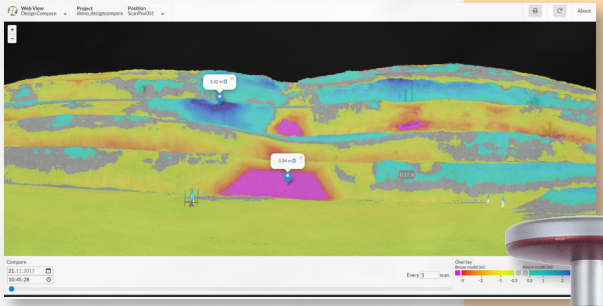
RIEGL Monitoring App

Change detection is calculated to a given reference scan. This allows to detect movements of e.g., highwalls long before this is visible to the human eye. The interpretation of the movements through a time series of scans allows the prediction of a possible slope failure. It ensures to have enough time to evacuate people and to remove machinery from the endangered areas.



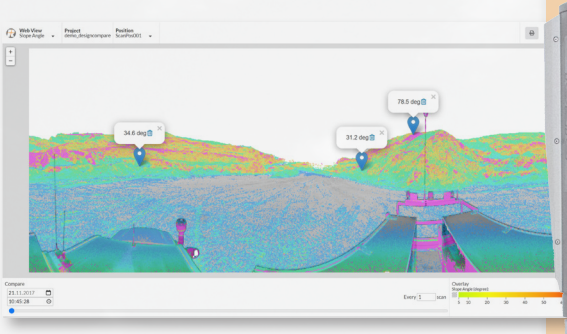
RIEGL Design Compare App

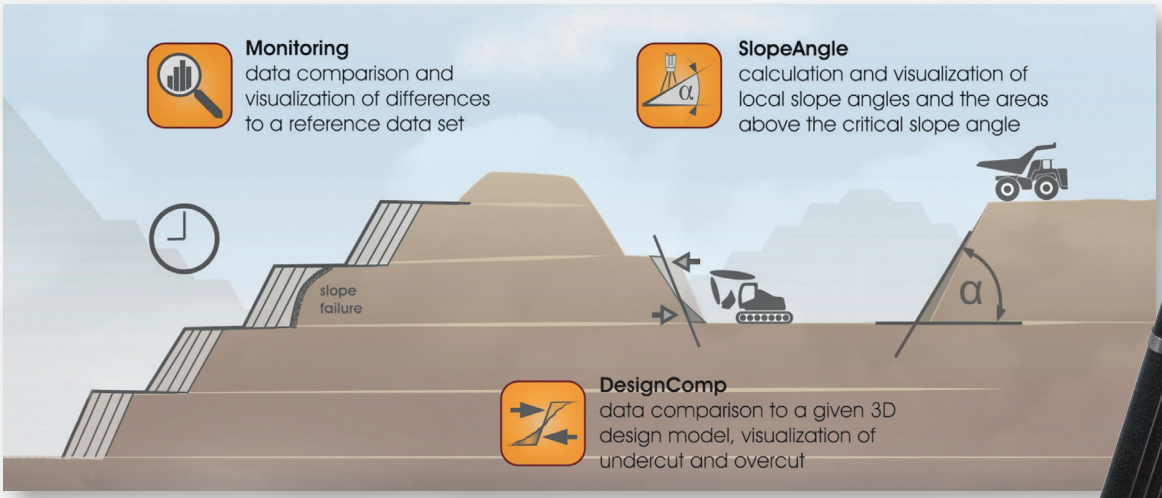
Overcut and undercut are calculated based on a given design model. While undercut is a waste of money, overcut can involve major safety risks. With the use of this app, the operation of heavy equipment such as digging machines can be optimized to streamline the mining process.



RIEGL Slope Angle App

Slope angles are calculated automatically from scan data. Critical slope angles can be highlighted and are provided to the user, e.g., the operator of loaders. The real-time information helps them to keep the slope angles of stockpiles and dump areas within the defined limits. They receive the information on a web browser on every device, which is connected to the mine network.





www.riegl.com

RIEGL®