

Powered by
ScatterX

The ScatterX logo features a large, stylized 'X' composed of four blue geometric shapes. The background of the top half of the slide is white with light blue concentric curved lines emanating from the right side, suggesting a radar or scanning motion. A teal circular shape is partially visible on the right edge.

ScatterX

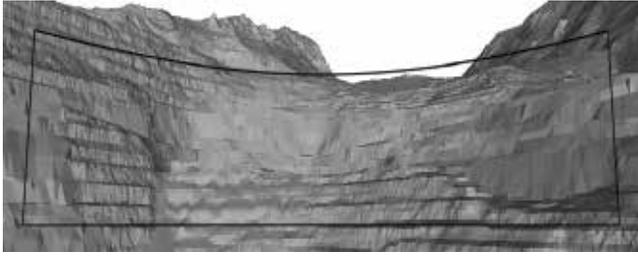
Powerful Software Inspired by the Industry

At Reutech Mining we believe that the industry doesn't require more solutions, but that it requires smarter solutions. This fundamental belief is reflected in our latest software release - ScatterX. With ScatterX, we set out to do the impossible: to design a state of the art strategic monitoring radar and a cutting edge tactical monitoring radar. In One.

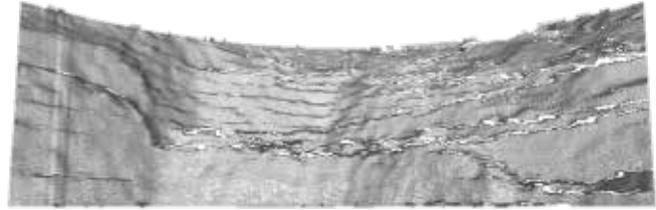
ScatterX is the reason that there is nothing quite like the MSR. Because we engineered both the hardware and the software, everything is designed to work together seamlessly. It brings together class leading radar hardware and innovative software to offer a game changing slope monitoring radar capable of performing both strategic monitoring tasks as well as tactical monitoring tasks. ScatterX improves the MSR offering in three key areas, namely resolution, scan speed, and atmospheric correction.

High Resolution Data in 3 Dimensions

ScatterX relies on advanced proprietary processing techniques that dramatically improve the amount of information recoverable from inside a single beam. Whereas previously a single data point in range was reported for each scan point, up to 30 points within a single beam are now reported on and displayed. Through millions of data points, smaller failure mechanisms can be tracked with the highest level of confidence.



Digital Terrain Model Generated Using a Laser Scanner

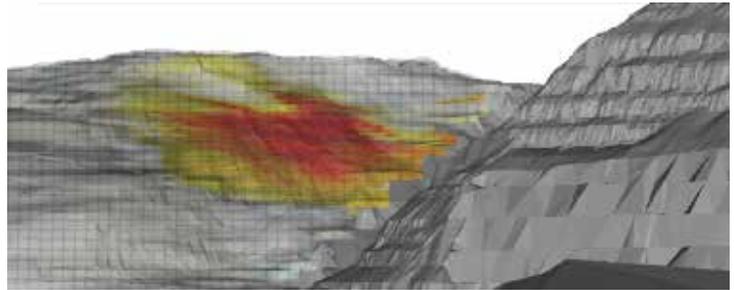


3-Dimensional Point Cloud Generated using the MSR Powered by ScatterX

Fast Scan Speeds over Broad Areas at Longer Distances

Faster scanning results in faster response times. The MSR powered by ScatterX offers fast scan speeds over broad areas at long distances, making it the ideal strategic and tactical monitoring tool.

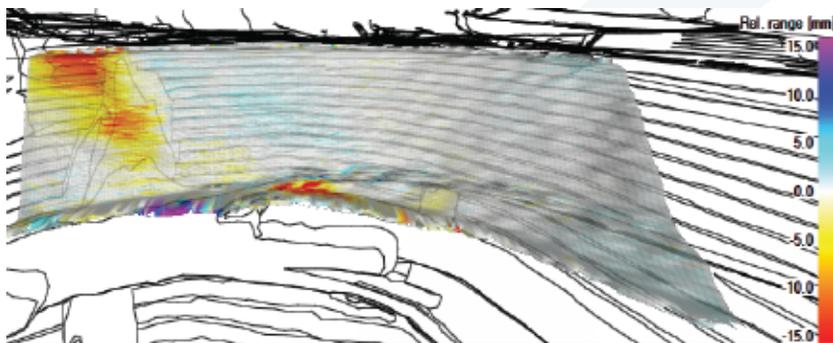
The ability to extract multiple points at each elevation position means less elevation positions need to be visited, allowing the radar to scan up to three times faster, without compromising processing time and at distances of up to 4000m. A new multi-threaded software architecture combined with optimised data file compression structures provides updated radar data immediately after every scan.



High resolution true 3-Dimensional MSR synthetic map generated at 3200m

Improved Atmospheric Correction without a Known-Stable Region

The MSR no longer requires known-stable regions as it relies on advanced atmospheric correction algorithms to compensate for the effect of the atmosphere on radar data. The increase in resolution combined with shorter scan times allow for better correction of atmospheric effects, yielding a cleaner and more accurate representation of the displacement of the slope surface. That means that the MSR can operate reliably in all conditions including fog, rain, smoke and dust. The result is exceptionally accurate geotechnical data when it's needed most



Built In Atmospheric Correction Algorithms Requires no Known-Stable Region

The class leading ScatterX software makes analysis and interpretation of slope performance straightforward. Through an intuitive graphical user interface, the complex tasks of setting up scan regions and defining alarm settings are simplified. With high speed WiFi connectivity, data management is practical, making remote access possible from anywhere. At any time.

REUTECH RADAR SYSTEMS, A DIVISION OF REUTECH (PTY) LTD

P.O Box 686 | Stellenbosch 7599 | South Africa

Tel: +27 21 880 1150 | Fax: +27 21 880 1842

e-mail: [mining@reutech.co.za](mailto: mining@reutech.co.za) | www.reutechmining.com