Who We Are

We are engineers who work in, and are passionate about, the mining Industry. We pride ourselves on our professionalism and our ability to collect accurate information in the most difficult of places. We only use reputable and highly skilled UAV pilots - ensuring successful outcomes every flight. We work underground and above ground collecting data from mines, tunnels, open pits, quarries, infrastructure, rehabilitation slopes and more.

SEE MORE

MINELiDAR

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SEE MORE

MAKE MEASURED DECISIONS

MINELiDAR

Make Measured Decisions

At MINELiDAR our highly detailed LiDAR acquired mapping data gives you the ability to know your mine like never before, so you can reduce risks and increase efficiencies.

The Technology

The Emesent Hovermap platform contains world-leading Simultaneous Localisation and Mapping (SLAM) with omni-directional collision avoidance - allowing for mobile airborne scanning without the need for GPS.

LiDAR scanning generates an accurately dimensioned point-cloud of any physical space or object, giving you the ability to investigate any area with complete confidence.

The Clearest Picture

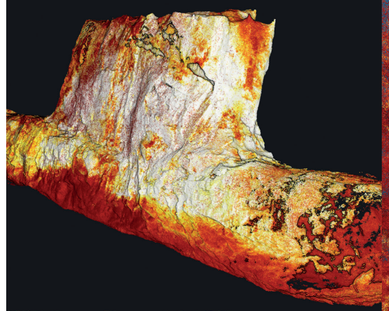
Traditional mapping of underground voids was dependent on total station locations and each point had to be precise. This was time intensive and only lead to low-resolution sampling. SLAM based LiDAR uses light pulses at 300000 points per second to produce an incredibly detailed shadow-free 3D image, with additional information collected regarding range and intensity.

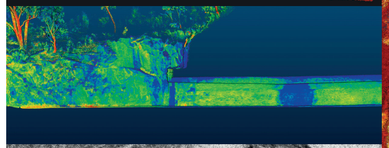
How You Can Use It

The Hovermap Platform is completely versatile and can be used in the following ways:

- **Handheld**
- **Vehicle Mounted**
- **Drone Mounted**
- **Winched**

This technology is suitable for mines (open cut and underground), tunnels, infrastructure, buildings and shafts.





A Well-Made Decision

The data collected can be used to make informed decisions with regards to rock mass response to excavation, structural geology, feasibility and environmental impact studies. Applications for SLAM based LiDAR are increasing rapidly. Some of the ways this technology has already been used in the industry includes: drilling and blasting, geotechnical studies, structural mapping, shaft overbreak/ ore pass wear detection, erosion mapping, failure mapping, drive deformation and stope scanning. It really is the future of mine mapping and engineering.