Creating highly accurate maps of the underground world, for the mining and natural resource industries is one of the most complex forms of surveying. Most environments are hazardous, and mining professionals need to work in tight, enclosed spaces, which can be complex and difficult to access. And of course, GPS coverage is non-existent. Despite needing to rapidly map mines under intense time constraints, traditional underground survey techniques have proved to be slow. Professionals all need access to user-friendly technology that is easy to install and use, but is robust and reliable enough to do the job quickly and accurately. They need versatile tools that enable them to survey an underground or difficult to access space and within minutes build a highly accurate 3D model of that space.

We are a global market leader in 3D mobile mapping technology. We offer mining professionals innovative technology tools such as our lightweight, handheld laser scanners which are highly mobile, simple to operate and can be used by anyone. Our award-winning user-friendly software turns data into real-time 3D information, delivering rapid and accurate results within minutes. And as our solutions don’t rely on GPS for accurate positioning and mapping, we are the perfect technology provider to help you with all your underground requirements. With accelerated survey workflows, we can help you manage underground facilities more effectively, with high improvements in productivity, safety and efficiency.
The benefits of using GeoSLAM

1. **Rapid scanning time.** Anyone can start operating the technology immediately, and our intelligent software (which uses the most established and robust SLAM mapping algorithm in the industry) can map tunnel profiles in minutes to an appropriately accurate level.

2. **“Go-anywhere” mobile mapping.** Our versatile technology is adaptable to any environment, especially complex and enclosed spaces, without the need for GPS. Our laser scanners are compact, lightweight and easy to use – you can walk with the handheld and survey accessible areas, or attach it to a trolley for more confined or hazardous spaces. Our technology even opens up areas which are ordinarily off-limits to human survey teams.

3. **Saving you time and money.** You can capture and model complex data up to 10 times faster, enabling you to successfully complete projects in minimum time with little or no disruption in the mine.

4. **Proven technology.** We have a strong track record of designing game-changing technology, applauded by industry experts and sold to over 40 countries. And with continuous innovation in our software, we aim to be the global market leader in 3D SLAM-based mobile mapping technology.

5. **User-friendly software.** Complete 3D point cloud outputs are compatible with all major industry post-processing software. Need to process unlimited data out in the field, or opt for a pay-as-you-go upload? We offer you cloud and desktop software options.