



ROCKMASS INNOVATION HIGHLIGHT



COMPANY OVERVIEW

RockMass is a mining and geosciences technology startup focused on data capturing and mapping for technical services. RockMass was founded in 2016 from a PhD thesis and is headquartered in Toronto. They work with over 15 mining companies globally who have benefited from their technology through improved safety in underground environments, labour efficiency, optimized analysis for ground support design, block modeling and mine planning. RockMass also partnered with major CAD-based software producers such as Seequent, Deswik, and Rocscience.

LOCATION: TORONTO, ON

TECHNOLOGY



Internet of Things



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ADVANCING GEOLOGICAL AND GEOTECHNICAL MAPPING

Geological and geotechnical mapping remains a primitive process that affects the value of multi-billion-dollar operations. RockMass' proposed solution is automated and remote geological and geotechnical mapping. Their sensors are designed to collect and process geotechnical/geological data, while their client's engineering team makes the decisions.

GEOLOGICAL AND GEOTECHNICAL MAPPING FOR UNDERGROUND ENVIRONMENTS

RockMass focuses on helping operations make the best possible decisions. They believe having the best data doesn't mean sacrificing safety or speed and provides actionable intelligence to engineers while keeping them safe and streamlining data. Their solution georeferences and gathers crucial face and back mapping data in real time. Having efficient access to geological and geotechnical data enables both engineers and geologists to make safe and guided decisions when they're in underground environments.

CONNECTIVITY OUTSIDE AND INSIDE THE MINE

By accessing the CENG Smart Mining Living Lab at the NORCAT Underground Centre, RockMass tested the operation and reliability of their Axis Mapper 3.0. They had success on public LTE networks outside the mine and they also successfully executed all the test cases with the Wi-Fi network inside the mine. Their device could send data without errors, as intended. RockMass also achieved the network communication speeds that they require for production deployments.

"The technical procedures we developed during the testing and validation phases will save us time and resources as we commercialize new connectivity features."

Matthew Gubasta,
President,
RockMass

