

SES MEO In Action

Powering Day-to-Day Operations and
Digital Transformation Initiatives Across
Remote Mining Operations

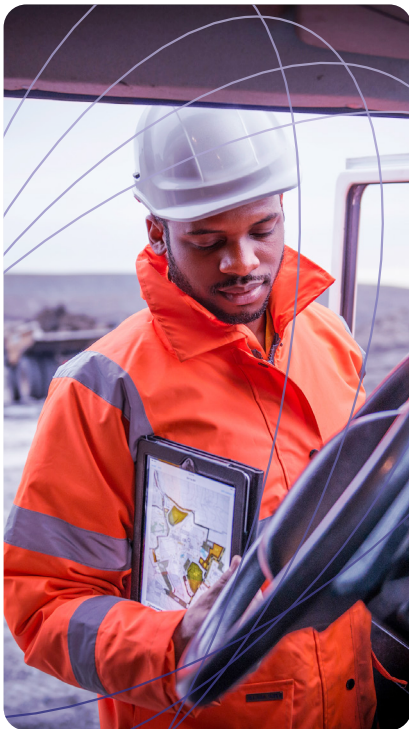


Industry
Fixed Data

Location
Global

Why SES MEO for Modern Mining

SES MEO's combination of predictable low latency, high bi-directional throughput, and enterprise-grade reliability provide the connectivity required for real-time control, analytics, and continuous operations. For mining environments where fiber is unavailable or impractical, or when other satellite services offer only basic internet connectivity options, SES MEO provides a performance foundation that allows digital systems to operate as designed, unhindered by substandard connectivity constraints.



Modern mining operations are defined by an array of digital transformation initiatives and operational models. From basic safety, resilience, and continuity to real-time automation and analytics-driven optimization, what unites these operations is a growing dependence on connectivity that behaves predictably under sustained load.

Autonomous Mining Operations | Resolute Mining, Mali

At Resolute Mining's Syama gold mine in Mali, the objective was full operational autonomy. As the world's first purpose-built, fully automated sub-level cave gold mine, Syama depends on continuous, low-latency connectivity to support real-time control of autonomous drills, loaders, and advanced visualization systems.

Located more than 300 kilometers from the nearest urban infrastructure, the mine cannot rely on terrestrial networks to deliver the performance automation it requires. SES MEO connectivity enables real-time monitoring and control by providing predictable latency and consistent throughput, allowing autonomous systems to operate continuously and safely.

With SES MEO extending the mine's local fiber network into the cloud, operational data is accessible to both onsite and headquarters teams in near real time. This performance foundation has enabled Resolute to reduce product costs by \$135 per ounce while improving safety by minimizing human exposure to hazardous underground environments.

While the operational details and goals may differ, these three customer examples illustrate how modern mining operations are leveraging SES MEO (Medium-Earth Orbit) space solutions to deliver production-grade performance unequaled by other satellite services.

Resilient Connectivity for Operations and Wellbeing | Shevon Holdings & Alphamin, Democratic Republic of Congo (DRC)

At Alphamin Mining's Mpana North tin operation in the DRC, safety, workforce wellbeing, and operational continuity all rely on access to resilient connectivity. The mine operates in a sparsely populated region with minimal terrestrial infrastructure, where connectivity limitations once constrained digital operations and increased operational risk.

Through its partnership with Shevon Holdings, SES deployed SES MEO connectivity to establish a resilient, production-grade communications platform. Predictable performance supports cloud-connected mining applications, site-wide wireless access, and reliable communications for up to 200 onsite workers.

Beyond operational improvements, the SES MEO-enabled infrastructure allows Alphamin to extend communications access to surrounding communities, supporting safety, coordination, and broader social responsibility objectives. The connectivity foundation scales with operational demands, enabling resilient growth without reliance on costly terrestrial build outs.



Bi-directional Performance Enables Cloud-heavy Workloads

Advanced analytics depend on more than high download speeds. SES MEO is designed to deliver sustained high upload capacity, predictable latency, and consistent throughput that is critical for transporting sensor data, processing outputs, and real-time operational data.

Analytics-driven Recovery Optimization | AXESS Networks, Africa

Across Africa, mining operators increasingly rely on data and advanced analytics to improve recovery and optimize processing. For a remote gold mining operation supported by AXESS Networks, the challenge was not data availability but the ability to transport and analyze that data reliably and at scale.

SES MEO connectivity provided the predictable performance required for sustained, bi-directional data flows between the mine and cloud analytics platforms. High return-path capacity and low, consistent latency allowed large volumes of operational data to be consolidated and analyzed without congestion or delay.

With data unified across systems and locations, advanced analytics can be applied to planning, processing, and operational control functions. The result was a measurable 4% increase

in metal recovery. For AXESS, SES MEO enables delivery of production-grade digital mining services in infrastructure-constrained regions, supporting long-term analytics-led customer outcomes.

One Performance Foundation, Multiple Mining Archetypes

While mining operations differ in maturity, geography, and digital priorities, they share a common requirement: connectivity that performs predictably to support both day-to-day operations and digital transformation initiatives under real-world conditions.

SES MEO enables a unifying communications infrastructure to meet autonomous operations, analytics-driven optimization, and remote-site resilience requirements. By aligning connectivity architecture to application requirements, SES enables mining operators and their partners to execute digital strategies with confidence wherever the mine is located.

Solve.
Empower.
Soar.



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Published in August 2026.

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