The Next Generation of Mining

Quintillion is the only telecommunications operator to build a submarine and terrestrial fiber-optic cable network in the U.S. Arctic. A leading infrastructure provider of high-speed broadband, our network brings resource development companies the next generation of project capabilities.

The mining industry is a focal point of economic activity as global demand for cell phones, computers, electric vehicles and renewable energy sources increase at an unprecedented rate. As demand grows, producers are looking to increase production, reduce mine footprints, improve sustainability and maintain profitability.

Telecommunications is transforming the industry, incorporating new digital technologies that create efficiencies and reduce costs. Most mining processes can be highly automated or remotely operated, but automation and digital resources by themselves are not enough. Mining telecom solutions must be partnered with a network that meets the low latency, high-reliability and security demands of new digital devices and software.

Ensuring a mining operation has access to an industrial-grade, reliable, scalable, flexible and secure telecommunications network is the first step toward automation. It allows for projects that can monitor and provide analytics to improve planning, production, processing, logistics, safety and sustainability.

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Arctic Case Study

The Aitik Mine in Sakajarvi, Sweden has leveraged automation capabilities to become the most efficient open-pit copper mine in the world.

- ▪ + 2,000 hours/year in drilling operations
- ▪ + 40% in completed operational drill hours
- ▪ ↑ EUR 2.5M net annual savings
- ▪ ↓ 10% reduction in fuel consumption
- ▪ ↓ 9,400 metric ton reduction in CO_2 emissions

Quintillion provides mining companies with a variety of products that deliver high-quality, low latency, cost-effective communications solutions for every stage of the project life-cycle.

Products

- ▪ **Custom Networks**
- ▪ **Dark Fiber**
- ▪ **Corporate WAN**
- ▪ **Optical Wavelength Service (10G - 100G)**
- ▪ **Ethernet Private Line (1Mbps - Gbps)**
- ▪ **Ethernet Virtual Private Line (1Mbps - Gbps)**
- ▪ **Internet Access**
- ▪ **Camp-Based Services**

In addition to broadband products and high-speed internet connectivity, Quintillion also provides a host of related broadband services.

Services

- Joint Network Development
- Network Security
- Network Monitoring

Enabled by Communications

Increasing production and improving profitability in the mining industry requires working relentlessly on efficiency, and the industry is turning its attention toward automation as the next area of opportunity. Carrying out drilling and blasting operations through the application of automation can save mining operators millions of dollars each year – particularly in remote locations – and it all starts with network communications technology.

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