

Tautuk™ Smart Technology For Smart Mines

We're ready to help mining organizations with a solution for security and reliability in support of their mission to produce minerals and metals needed to drive the global economy. It's time for visibility into engineered technologies, artificial intelligence applications, IoT devices and connected operations systems

- ### 1 Process Automation

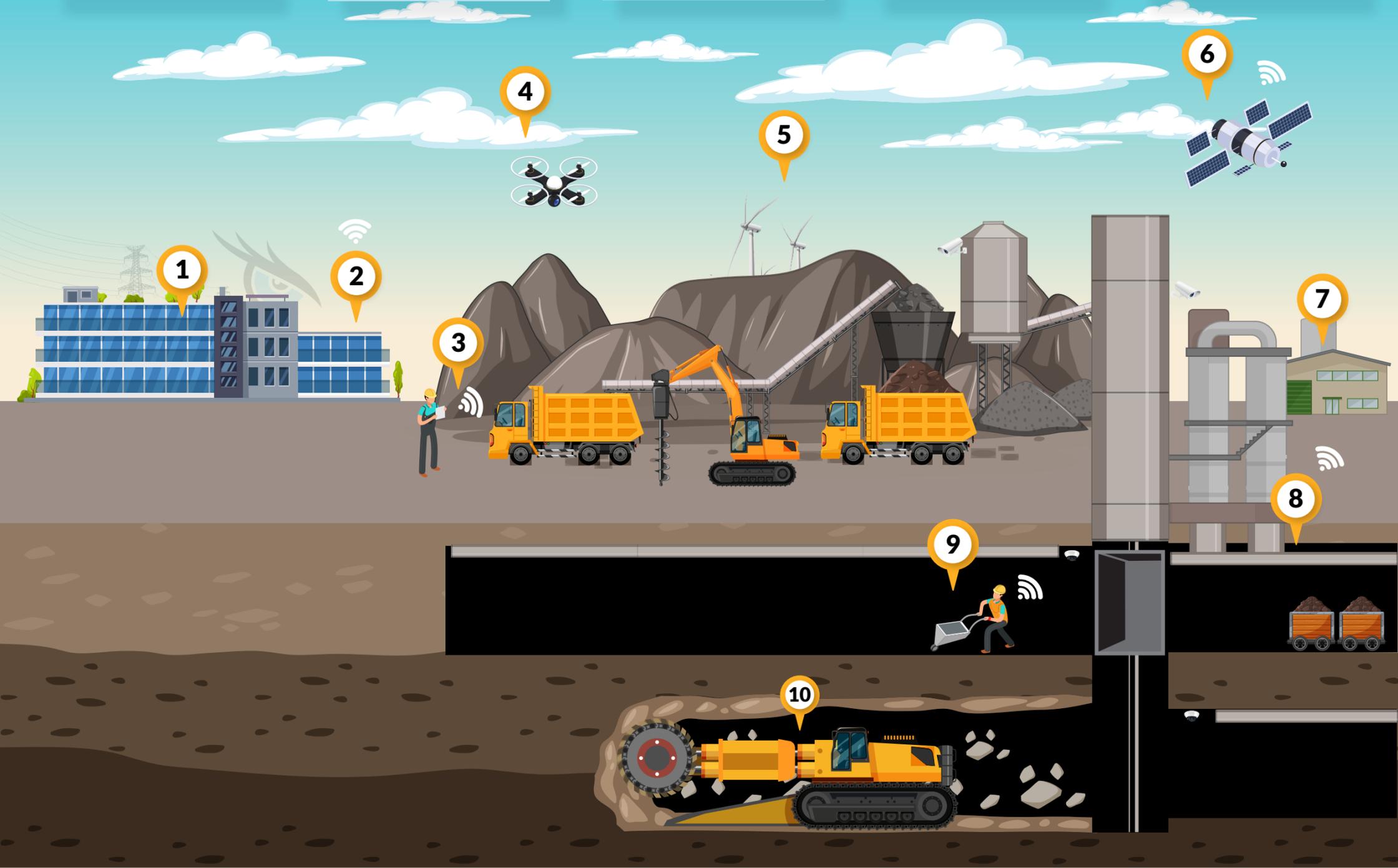
Visibility into Integrated autonomous machines and automated technologies enables operations in deep mines to operate more safely and effectively.
- ### 2 Data Optimization & Security Ops

Understanding the data collected from equipment and monitoring devices allows engineers to create simulations to plan and schedule reliable operations and security teams to stay ahead of threats
- ### 3 Equipment Management

Digitally integrated new sensor suites help track and optimize mining operations. Capturing data across all aspects of mining allows operators to predict and avoid failures eliminating downtime.
- ### 4 Surveillance Technology

Drones provide immediate aerial visibility of mining sites for maintenance, monitoring and mapping. Improving the safety and efficiency that helps reduce cost.
- ### 5 Renewable Energy

Wind, solar and bio-energy will reduce remote isolated communities on diesel, which is expensive and generate large amounts of GHG. Renewable energy is potential for future growth.



- ### 6 GPS Technology

High accuracy GPS technology builds precision into mining. From drilling to autonomous haul trucks for worker safety. Visibility into GPS solutions support safer and more efficient operations.
- ### 7 3D Printing & Modular Equip

3D printing technology increases the efficiency and flexibility of operations, through the production of on-demand parts for rapid replacement and repairs. Whole system perspective prevents safety issues and costly downtime.
- ### 8 Ventilation Technology

Airflow systems are critical to the safety and reliability of operations. Monitoring, managing and maintaining on-demand SMART Ventilation systems requires ground truth intelligence.
- ### 9 Worker Wearables

Wearable monitoring devices provide critical information for mining operations, equipment status, reports and air quality. Wearable visibility provides confidence that safety and reliability processes and protocols are met.
- ### 10 Alternative Powered Vehicles

Diesel, electrical and hydrogen powered vehicles require status visibility into their functionality for continued safety and reliability of equipment and air quality.