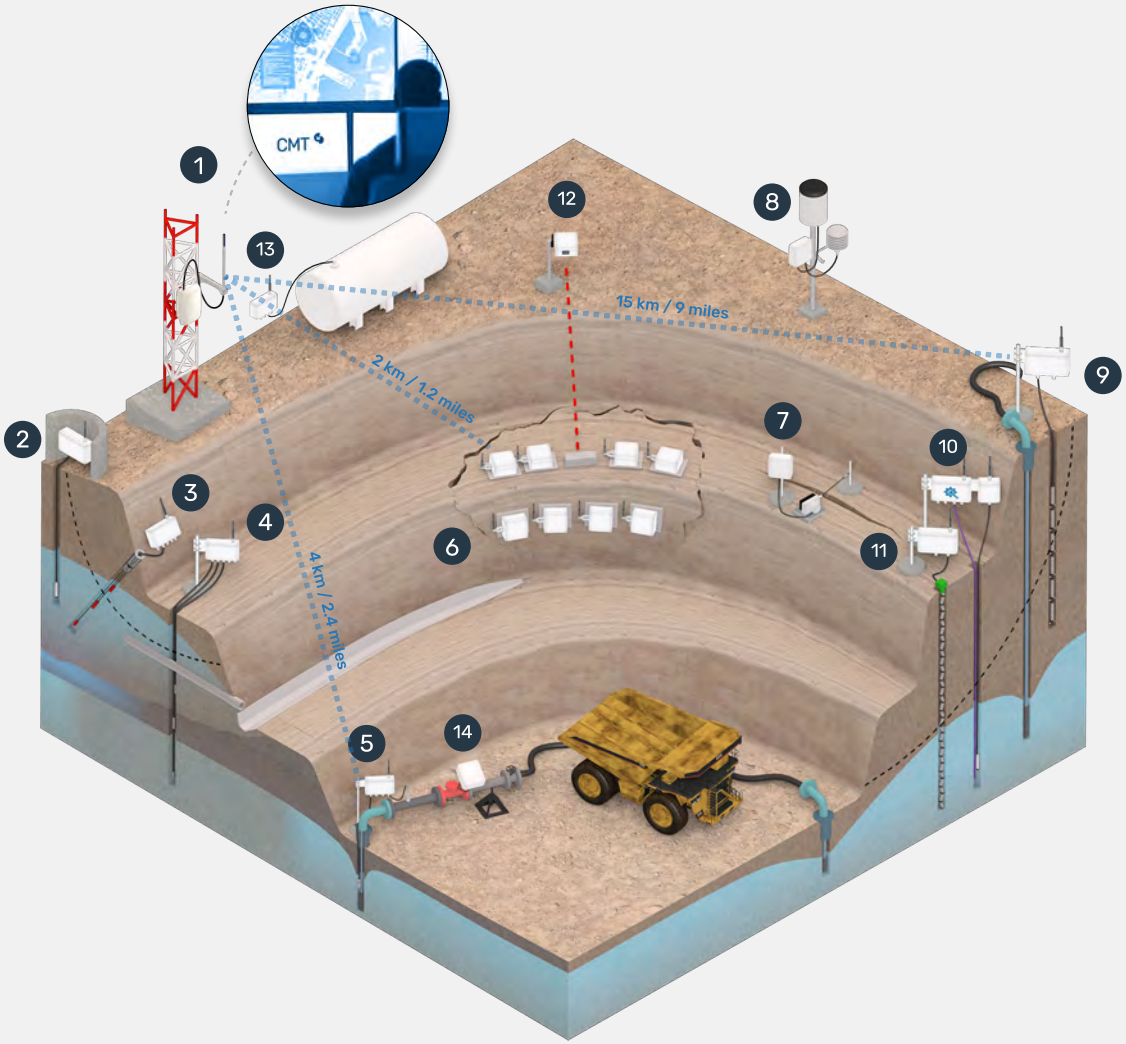
Your IoT Remote Monitoring Solution

Monitor Open Pit Mines more Efficiently



1. Remotely manage and monitor your deployed devices and networks. Obtain monitoring data either on-premise or through the cloud. The gateway sends all data to the **Connectivity Management Tool (CMT)** based on your selected sampling rates. Integrate your data analytics software in CMT to create complete monitoring reports.
2. Analyze the quality of the water with a water quality probe connected to a **digital logger**.
3. Measure vertical deformation at various depths with a multi-point borehole extensometer (MPBX) connected to a **vibrating wire 5-channel data logger**.
4. Monitor pore pressure through piezometers in a borehole connected to a **vibrating wire 5-channel data logger**.
5. Monitoring water level and temperature in the dewatering well and pressure at the pipe through a water level sensor and a pressure transmitter connected to an **analog data logger**.
6. Detect slope movements in real time (less than 2 seconds in most cases) through the **Tilt90-x wireless tiltmeters** for the **Event Detection Solution**.
7. Monitor movement across surface cracks with a draw wire sensor connected to a **Piconode.**
8. Monitor precipitation with a rain gauge and air temperature with a thermistor connected to a **Piconode**. If you need to monitor more parameters, use a weather transmitter connected to a **digital logger**.
9. Assess horizontal displacements through in-place inclinometers connected to a **digital logger** mounted on a pole.
10. Assess the pore water pressure with a piezometer connected to a **vibrating wire 1-channel data logger.** Locate the depth of a sliding surface using coaxial cables and a Time-Domain Reflectometer (TDR) connected to an **analog data logger**.*
11. Assess horizontal displacements through ShapeArrays connected to a **digital logger**.
12. Check the relative distance variation of the slopes with the **LaserTilt90**, a 3-in-1 laser distance meter, inclinometer and data logger, pointing at a target.
13. Monitor diesel fuel levels with a fuel tank level sensor connected to a n **analog data logger**.
14. Pumping rate measured with a water meter connected to a **Piconode**.

WORLD SENSING Monitoring What Matters

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