


The route to smart mining

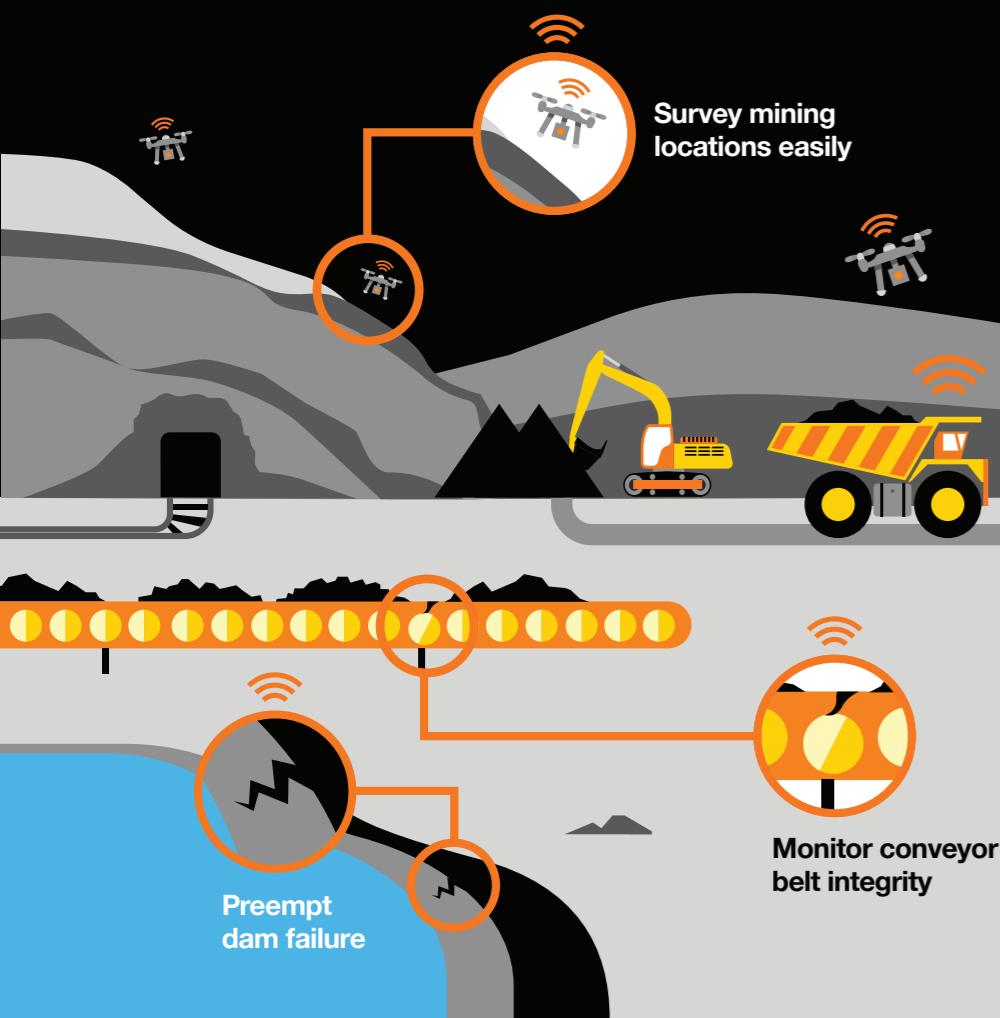
Three ways IoT can enhance sustainability, safety and performance

Mining is a tough and volatile market. Declining reserves and increasing safety, compliance and environmental issues demand better operational insights and greater leverage of automation capability. Check out our graphic to see how the internet of things (IoT) can help meet these challenges.

1 Improve mining safety


As resources in low risk areas become depleted, automation and digitization become essential for safer, smarter mining with less environmental impact.

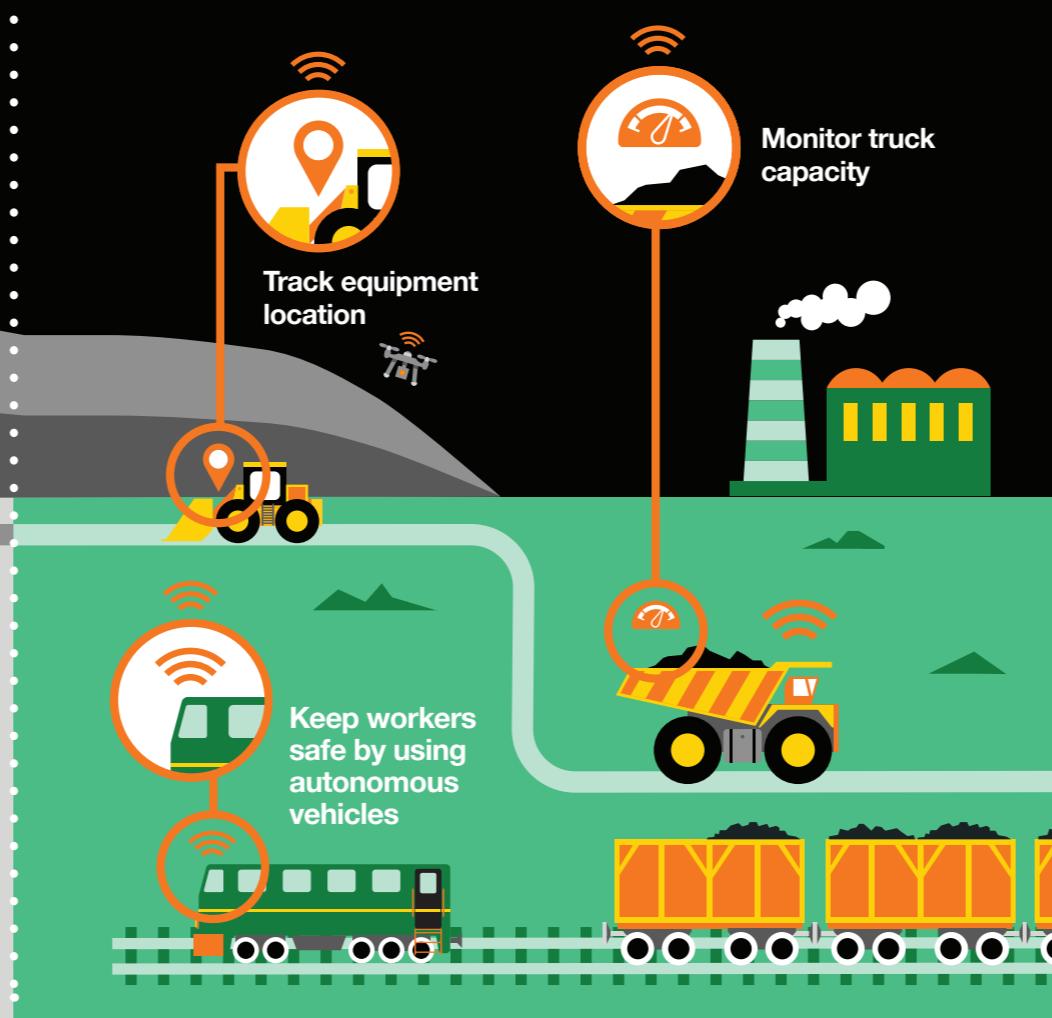
 Approximately \$180,000 lost in downtime per incident¹



2 Automate mining logistics


IoT in combination with advanced mapping technology plays a crucial role in allowing the remote operation of autonomous vehicles, such as trucks and trains.

 Autonomous trucks outperform a manned fleet by on average 14% and reduce load/hauling costs up to 13%²



3 Optimize mining operations

IoT can help to streamline business operations to improve operational excellence, reduce risk, asset management, demand planning and mine execution.

 Drones are 85% more cost effective than conventional inspection/survey techniques³

