



# ARE YOU READY TO TAKE TECHNOLOGY UNDERGROUND? WE'RE HERE TO HELP.



What if you could bring the same proven technology solutions that are available to surface operations to your underground mine? And what if you could have a team of experts on site to help you successfully install, deploy, integrate and support them?

With Cat® MineStar™ for underground, you can.

It's no secret that underground mining presents special challenges when it comes to safe, efficient operation. That's why we tailor Cat® MineStar™ Solutions to the unique needs of your environment.

Cat MineStar is the mining industry's most comprehensive and thoroughly integrated suite of technology offerings. No matter the size, type or complexity of your underground operation, Cat MineStar can help you deal with the challenges you face every day: Controlling costs. Extending equipment life. Working more productively. And keeping people safe.

## Are you ready to take technology underground?

Lean more at [cat.com/minestarforunderground](http://cat.com/minestarforunderground)

### MINESTAR FOR UNDERGROUND OFFERINGS

Individual technology offerings can be deployed individually or integrated to create a comprehensive technology system that is scalable and configurable to the needs of your operation.

#### Run your LHDS remotely with the *Command for underground*

Command for underground enables remote operation of load-haul-dump machines — from simple line-of-sight to full autonomy — providing immediate productivity and efficiency gains and improving safety.

#### Get essential operational information with *Fleet for underground*

Timely access to accurate information is key to running a productive mine. Fleet for underground provides real-time visibility to cycle time, payload and other key operational parameters and automatically records and tracks data up and down the value chain.

#### Address risks to people and assets with *Detect for underground*

Detect prevents unintended interactions between people and assets by letting you “see” in the dark. Using a high-precision peer-to-peer proximity detection system coupled with a revolutionary communications and tracking network, Detect can prevent incidents and track people and machines—wherever they are underground—in real time and with no reliance on mine infrastructure.

#### Make Informed Decisions And Optimize Your Maintenance Strategy with *MineStar Health*

Machine health data is critical to helping you improve the reliability of your mining equipment, reduce unplanned downtime and prevent costly failures. MineStar Health products and services enable you to collect and transmit equipment data that enables proactive maintenance services and predictive equipment analysis.