

WHAT WE CAN HELP YOU DO

- ↑ **INCREASE:** Visibility | Awareness | Confidence | Productivity
- ⊘ **PREVENT:** Heavy machinery collisions | Heavy-to-light vehicle collisions | Fixed equipment accidents
- ↓ **REDUCE:** Repair costs | Downtime | Lost productivity | Paperwork & administration
- ★ **IMPROVE:** Individual safety | Site safety



TAKE A LOOK AROUND

HOW WE MAKE IT POSSIBLE: DETECT CAPABILITIES

- 1 Vision: Cameras**
 - » Surface: Operators can see what's happening close to machines
 - » Longwall: Follows and tracks people along the working face
- 2 Object Detection: Radars**
 - » Automatically detects other equipment or vehicles around machines
 - » Shows operators where potential hazards are located
- 3 Proximity Awareness: Satellite**
 - » Displays locations of other equipment and assets and provides warnings based on proximity.
 - » Displays preprogrammed information — such as avoidance zones and haul road maps.
- 4 Fatigue & Distraction Management: In-cab camera**
 - » Driver Safety System measures operator eye and eyelid behavior to determine onset of fatigue and distraction
 - » Provides in-vehicle intervention and event monitoring with no operator input required
- 5 Personnel: Locator Tags**
 - » Tracks the location and identity of personnel working on longwall equipment.
 - » Can automatically halt operations when unauthorized people enter restricted areas
- 6 Seat Belt Monitoring**
 - » Outbound indicator to show when operator is wearing seat belt
 - » Visual and audible aid within the cab to alert operator to buckle up

Enhance operators' awareness of the environment around their equipment:

- » Manned or unmanned
- » Remotely controlled
- » Mobile machines
- » Fixed equipment

FOR MORE INFORMATION,
GO TO WWW.CAT.COM/MINESTAR
OR CONTACT YOUR LOCAL DEALER

