

# SEE. MITIGATE. MANAGE.

Technology-enabled solutions  
give you visibility to hidden risk.



Caterpillar Safety Services

**BUILT FOR IT.™**

# AGENDA

1. FATIGUE

2. TECHNOLOGY SUITE

3. DRIVER SAFETY  
SYSTEM

4. LAYERS OF  
PROTECTION

SIMONE SMYTH

CATERPILLAR SAFETY  
SOLUTIONS

## OPPORTUNITY // OMINOUS THREAT



## TECHNOLOGY





# DSS CAB INSTALLATION





### ■ Technology

- Non-contact, non-intrusive
- Measures eyelid closure
- Measures head orientation
- Discrete, Verifiable Events
- Event Types Detected

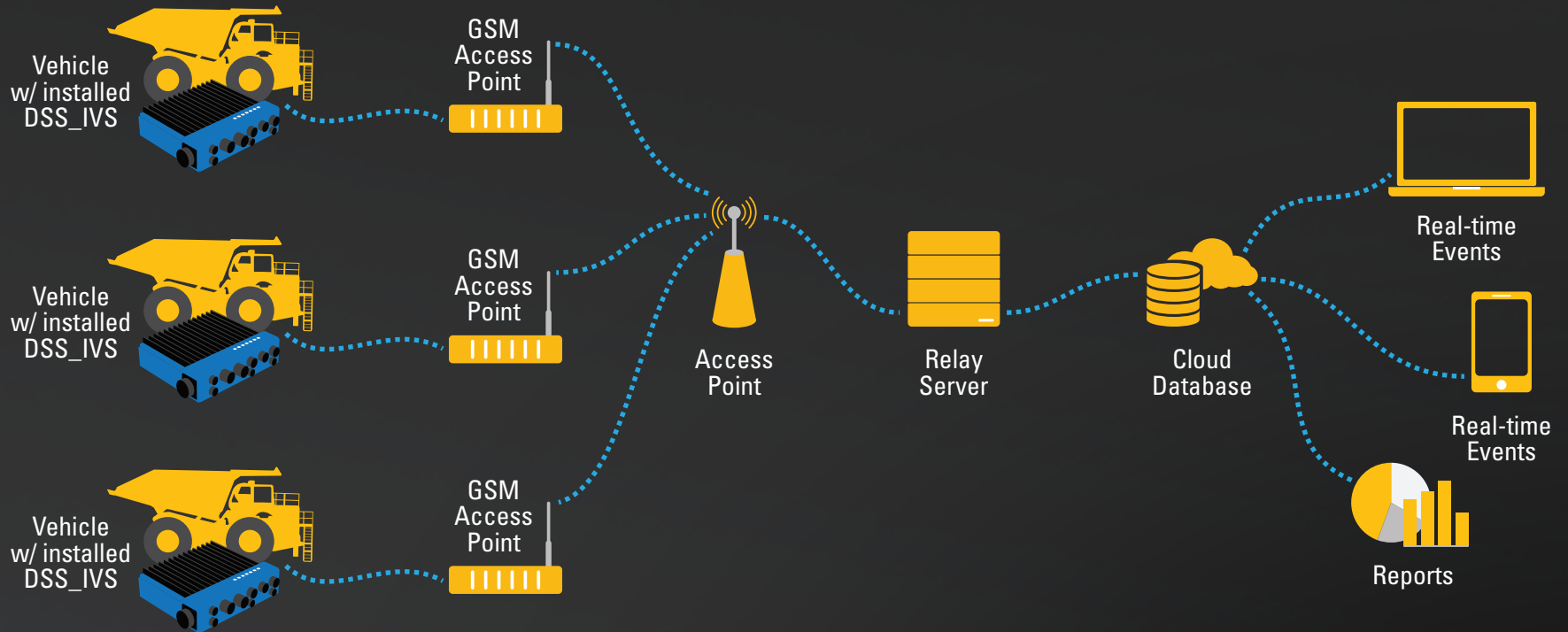
### ■ Fatigue events

- Eyes closed (duration > 1.5sec)
- Machine in motion (speed > 4mph)

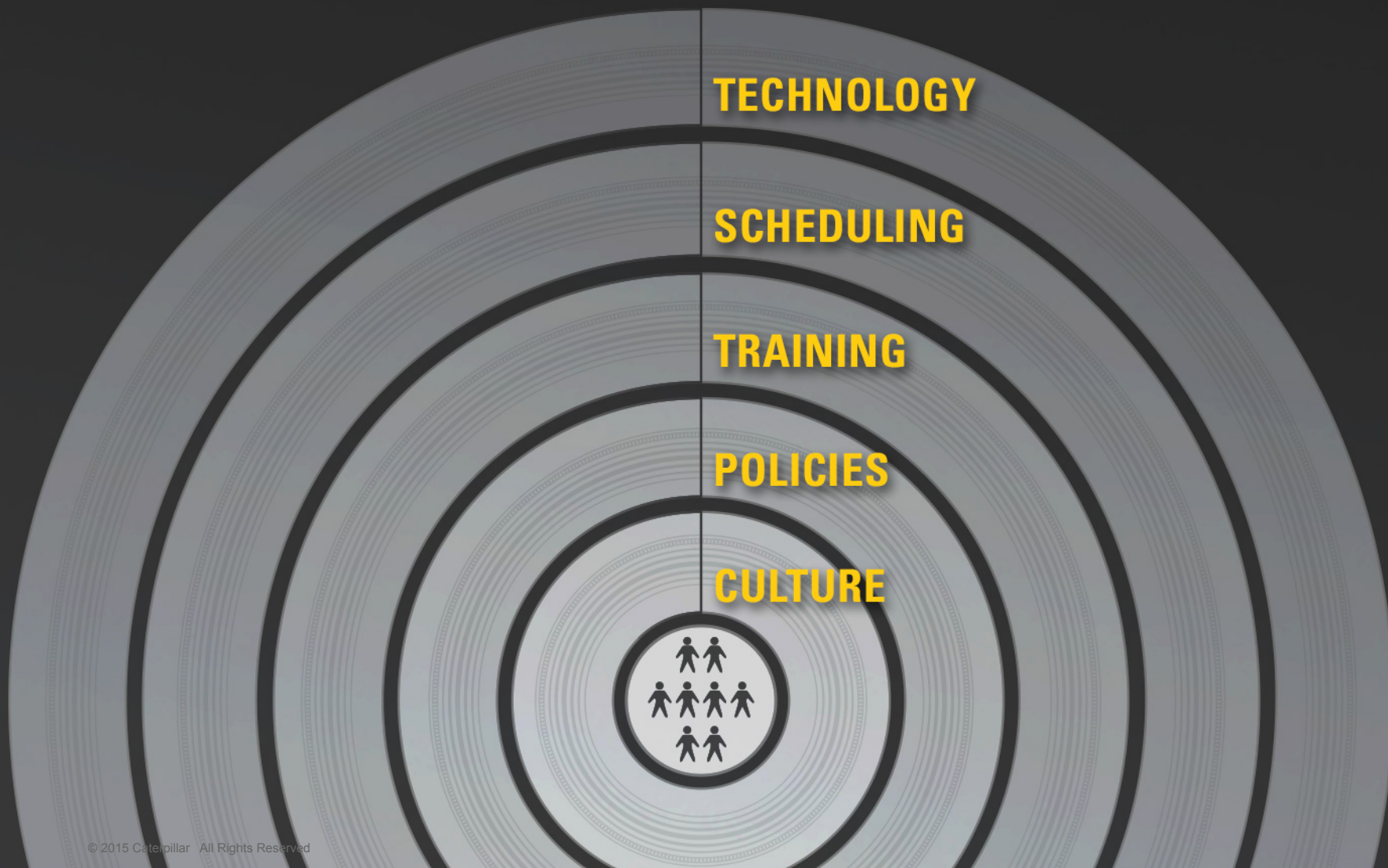
### ■ Distraction events

- Look away from road (duration > 4.5sec)
- Machine in motion (speed > 10mph)

## TECHNOLOGY // HOW IT ALL WORKS



## SOLUTIONS // LAYERS OF PROTECTION





# Questions

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