



wakecap

CONNECTING JOBSITES TO  
IMPROVE **CONSTRUCTION**  
SAFETY

**Hassan Albalawi**

*Co-founder & CEO*

*Hassan@wakecap.com*



# Construction's Fatal Four



"Fatal Four" were responsible for more than half (63.7%) the construction worker deaths in 2016



# Construction's Fatal Four



ELIMINATING THE **FATAL FOUR**  
WOULD SAVE **631 WORKERS'**  
**LIVES** IN AMERICA EVERY YEAR





“

CONSTRUCTION IS AMONG THE  
**LEAST DIGITIZED** SECTORS

McKinsey&Company

connecting construction site is very **challenging!**



Site



Workers

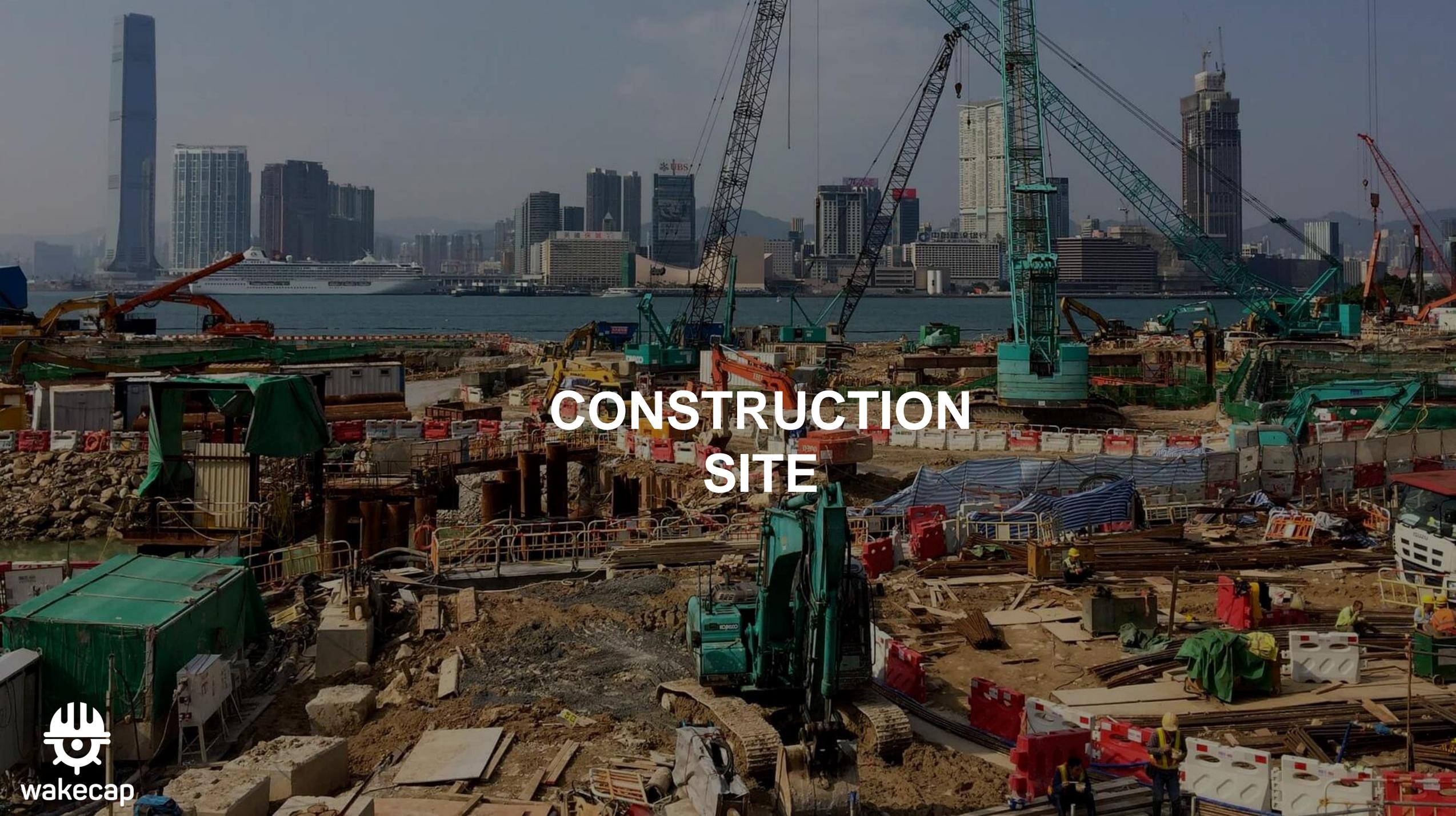


Hardware

“

Workers are **reluctant** to wear an additional piece of equipment

**Deloitte.**



# CONSTRUCTION SITE





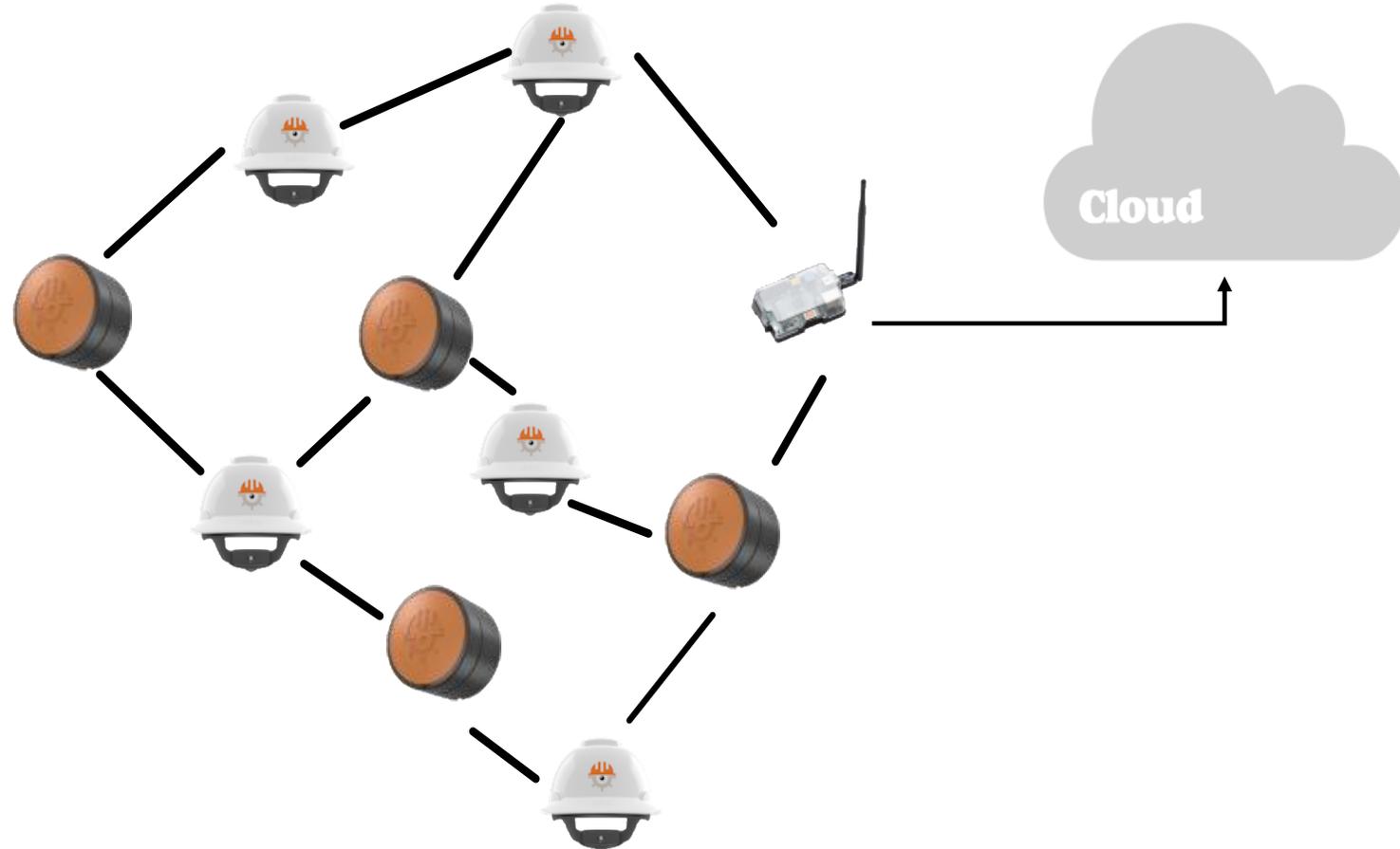
# CONSTRUCTION WORKERS



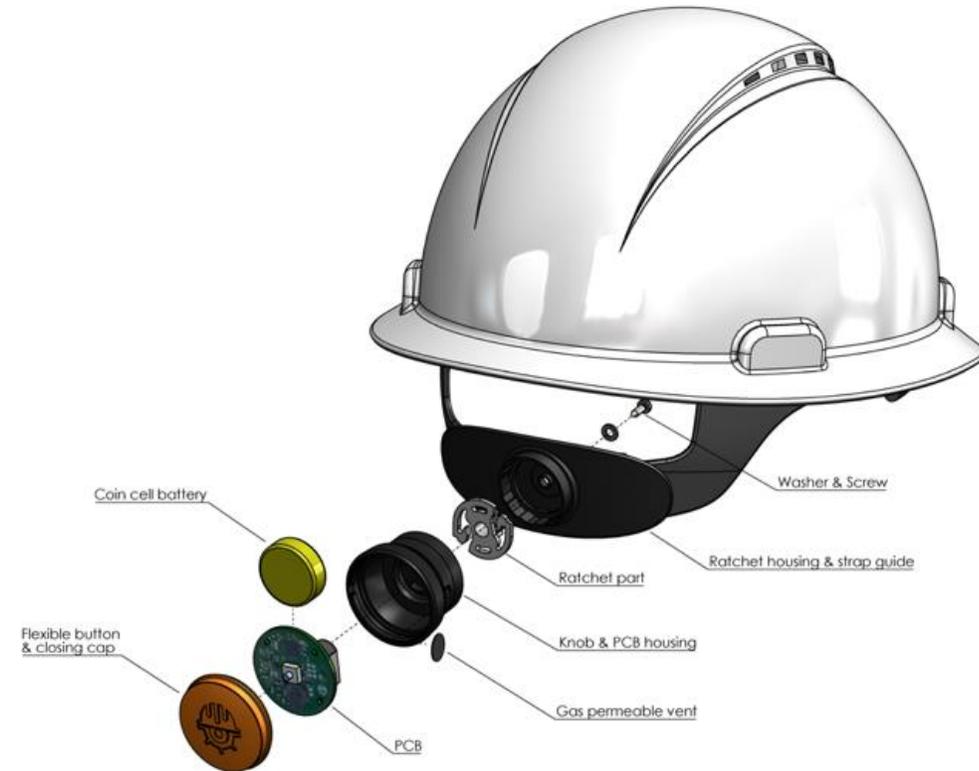
# Hardware



## Battery-powered Wireless Mesh Network



## Smart Wearables for Construction Workers

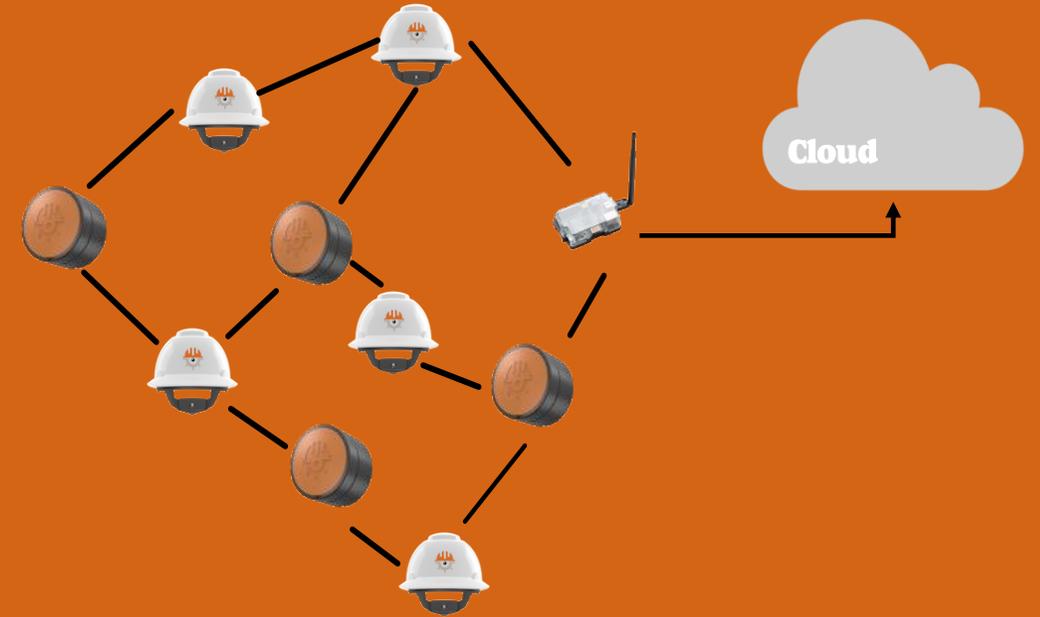


# Connecting Workers



Integrated Sensors **+** Wireless Mesh-Network

Sensors are integrated **seamlessly** with a construction hardhat without compromising the structural integrity of the helmet



Nodes are placed across the jobsite to **expand connectivity** using a proprietary mesh network and to stream to the cloud via a gateway



# MITIGATE RISKS EFFECTIVELY



## Prevent unauthorized access

Your workers receive automatic alerts when entering pre-defined danger zones or unauthorized worksite areas



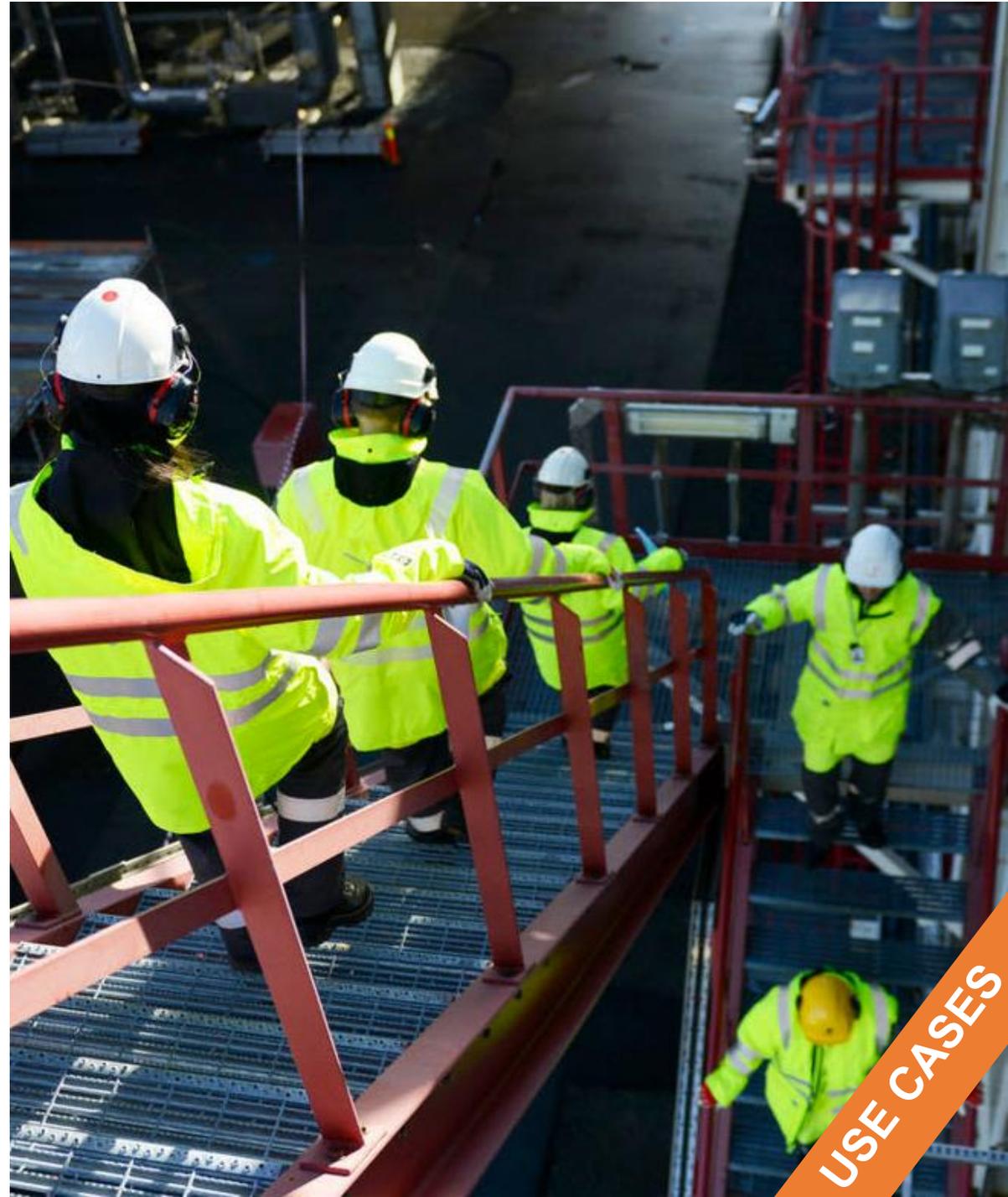
USE CASES

# IMPROVE SAFETY MEASURES



## EVACUATE WORKSITE EFFECTIVELY

Alarm all workers on site simultaneously on their WakeCap hardhats no matter where they are located on the site.



USE CASES



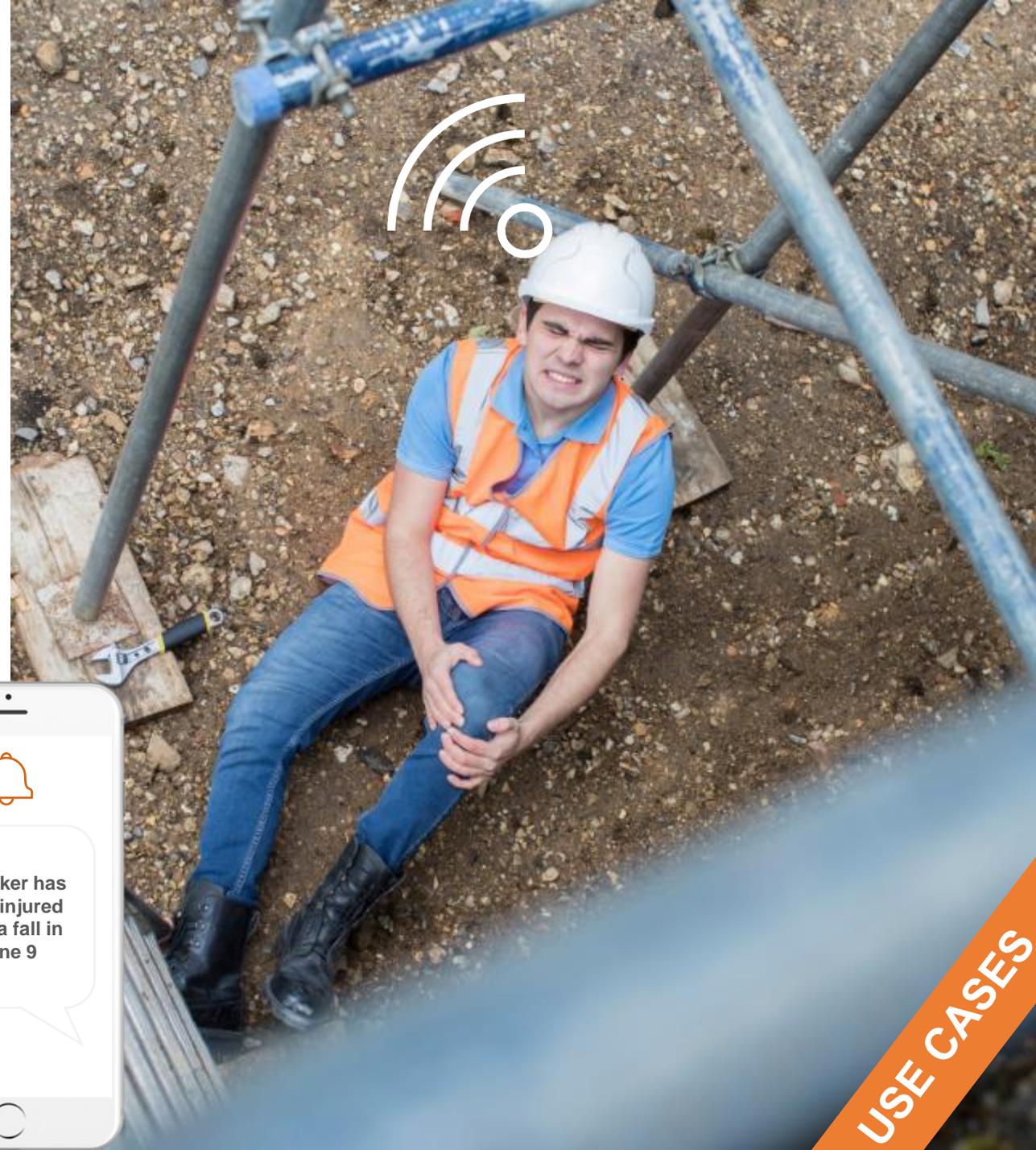
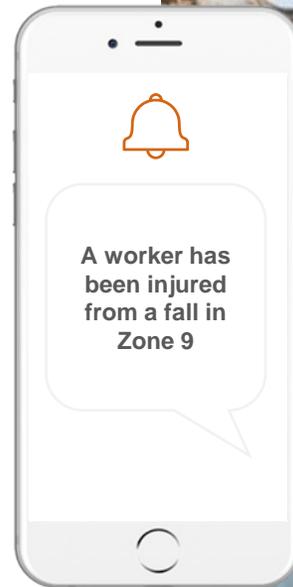
wakecap

# OPTIMIZE EMERGENCY REPOSE



## Detect falls automatically

The accelerometer sensors can detects if workers falls, slips or trips and alerts the response team in real-time for faster emergency response time



USE CASES



wakecap

# QUANTIFY HARDHAT PROTECTION

## Prevent Faulty / Damaged Helmets

Keep track of the hits received and ensure workers are receiving the optimum performance from their protective headgear



Credit: Little Rock District



# Hassan Albalawi

*Co-founder & CEO*

*Hassan@wakecap.com*

