Improving Safety Through AI and the Internet of Things





What is IoT?



The Internet of Things is...

The network of physical objects...

...embedded with electronics, software, sensors and network connectivity...

... which enables these objects to collect and exchange data.

The Safety of the Workforce

According to the International Labor Organization, every 15 seconds, 151 workers have a work-related accident. The global number of non-fatal occupational accidents reaches a staggering number of 317 million, annually. In the United States alone, workplace injuries and illnesses cost employers more than \$250 billion annually, with 27 million working days lost per year.

Each Year:

10 workers are injured every second

Over 321,000 lives are lost on the job

More than 317 million non-fatal occupational accidents

The Cost of an Unsafe Workplace in the USA Alone 222222222222 L THERAPY \$155,092,844,897 \$\$\$\$\$\$ BRAND EROSION **BULANCE RIDE** \$53,240,993,046 **\$\$\$\$\$\$\$** COSTS \$221.625.776.846

Safety Results

Organizations have reported the following statistics after deploying a safety system powered by The Nation Safety Net



<u>Oil & Gas</u>

Injury rate reduced by 86% related to Fatigue and Falls

Warehouse **27 Proximity** alerts received in six weeks which resulted in a **100%** reduction in injuries



Steel Manufacturer 40 Heat Stress incidents avoided over a 9 months which resulted in 0 injuries

<u>Utility</u>

Workers and pedestrians had experienced injuries and death added a **Danger Zone** warning system which resulted in a significant reduction of incidents and **0** deaths

Safety Using AI and IoT Improves Business Value

Increased Safety Improved Productivity

Better Accountability

More Accurate Risk Assessment



Injury Prevention Market Success

Industrial

- -Heat Stress
- -Gas Exposure
- -Fatigue
- -Overexertion
- -Man Down
- -Falls

-Drop / Danger Zones

-Proximity to Dangerous Equipment

Telecommunications & Utilities

- Electric Field
- Fatigue
- Man Down
- Falls
- Overexertion
- Drop / Danger Zones
- Proximity to Dangerous Equipment

Distribution

- Fatigue
- Man Down
- Falls
- Overexertion
- Bad Bends
- Drop / Danger Zones
- Proximity to Dangerous Equipment

Public Municipalities

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- Heat Stress
- Fatigue
- Overexertion
- Man Down
- Falls
- Drop / Danger Zones
- Proximity to Dangerous Equipment

<u>Insurance</u>

- All Injuries
- All Industries



