

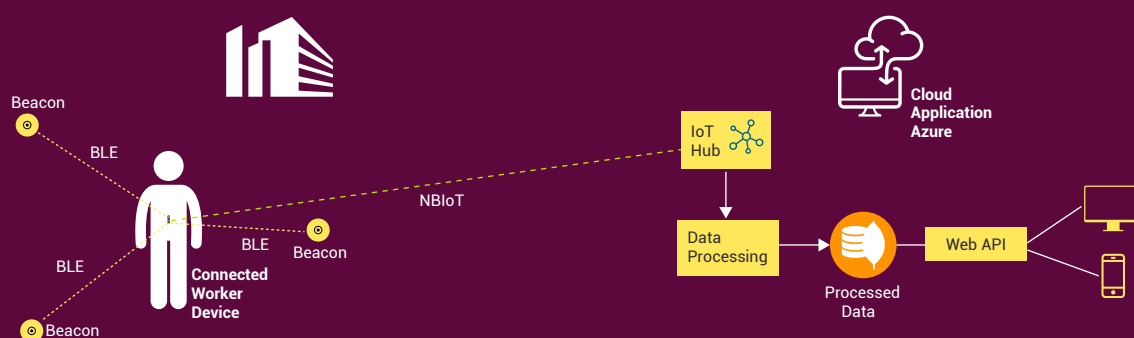


# NAVISAFE

## ELEVATE YOUR CONSTRUCTION SAFETY & PRODUCTIVITY

A construction site is characterized by thousands of workers from tens of contractors doing different activities on an ever changing structure. Worker Safety is still not a solved problem at construction sites. Precious lives are lost in major accidents and several workdays and compensation lost with minor incidents. A new accident is waiting to happen every moment in a construction.

When we combine several years of construction safety experience, understanding of Worker Behavior & Technology, we have Connected Worker, an integrated IoT solution that significantly reduces unsafe behavior at construction sites.



## FEATURES



Realtime Position Information of each Worker



Ability to filter and watch high risk workers & activity



Dynamic Geofence to protect the workers



Distress Alert



Fall Alert



Send evacuate message to workers directly



Integration to Safety Apps like ePTW



Maintain worker safety records including Training



Worker Fatigue Monitoring



Worker Activity, Movement and Productivity Analysis



Regulatory Reports with more accurate Data



Gamification of Safety – A new Safety Paradigm

# TECHNICAL SPECIFICATIONS

Connected Worker System (CWS) is a fully integrated complete system consisting of the Device, Geolocation & Communication Infrastructure and Cloud based application. It supports both LoRa and NBIoT and can be deployed in Azure or AWS cloud.

# UNIQUE VALUE PROPOSITION

Jointly Developed by UST Global and Jacobs,  
one of the world's largest constructions  
consultants

Based on the real needs of the construction industry

All algorithms fine tuned to perfection through field  
deployments

Simplified Pricing . All inclusive Per Worker Per  
Month (PWPM) pricing

# DEVICE SPECIFICATIONS

## ELECTRONICS:

- ARM Cortex-M0+ Controller based design for optimal resource utilization
- Battery capacity of 1300 mAh with 5 days backup
- Localization using GPS for outdoors (+/- 10m) and BLE beacons for indoors (+/- 5m)

## INDUSTRIAL DESIGN:

- Pocket sized with 100x50x20 mm product dimensions
- Rugged IP65 design for indoor and outdoor use

## NETWORK CONNECTIVITY:

- Wireless Interface using NB-IoT for cloud connectivity with global interoperability (B1/B3/B5/B8/B20/B28 @ LTE TDD)
- MQTT based bidirectional Data transmission and Device Management

## PROPRIETARY ALGORITHMS:

- Fall detection, Altitude detection, Idle, Posture and pedometer analysis
- Panic alerting

# BENEFITS



Significant reduction  
in Unsafe behavior



Two way  
safety alerts



Future proof  
architecture



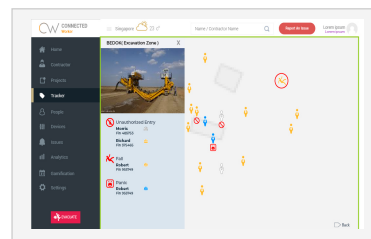
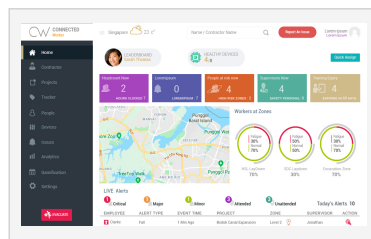
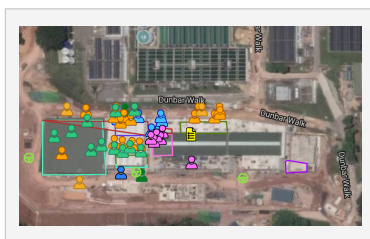
Hassle free  
Reporting



Availability of Safety  
Command Center



Higher Worker Engagement  
in Safety through Gamification



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