

U S  
T .

Jacobs



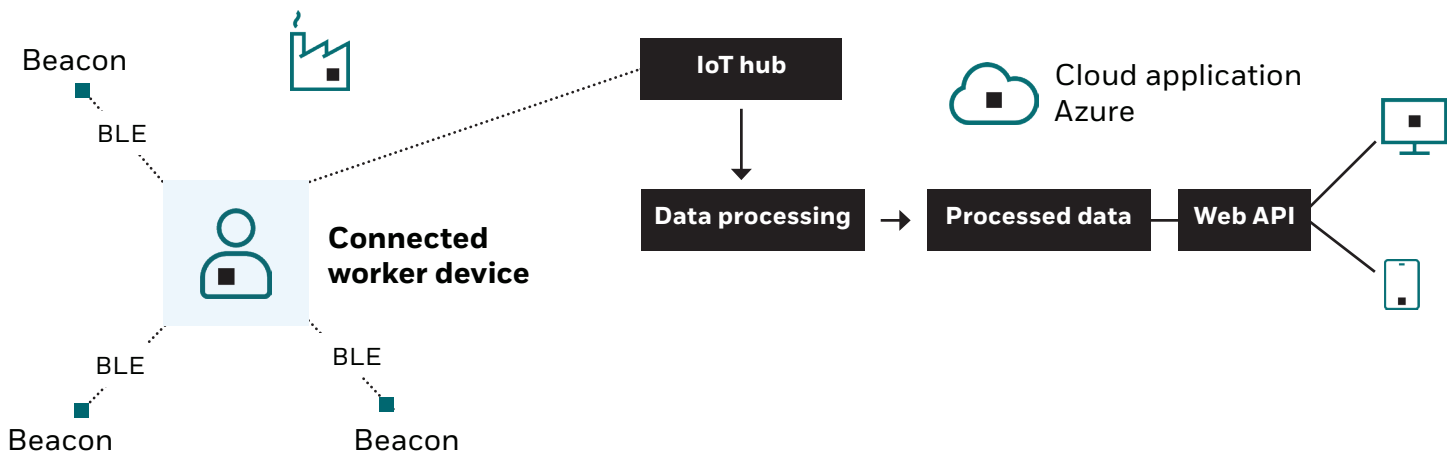
# NaviSafe

Elevate your  
construction  
safety and  
productivity

[ust.com](http://ust.com)

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 NaviSafe (connected worker system), 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	Gamication of safety – a new safety paradigm



# 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:

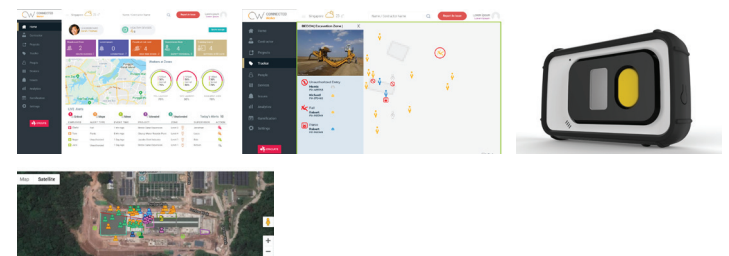
- Wireless Interface using NB-IoT for cloud connectivity with global interoperability (B1/B3/B5/B8/B20/B28 @ LTE TDD)
- MQTT based bidirectional Data transmission and Device Management

## Proprietary algorithms:

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

At UST, we're building for boundless impact across industries and organizations. Countries and communities. With clients in the Global 1000, we're working together to break free of convention and drive meaningful change. As our partner, you'll share in the knowledge and connections we've gained from transforming some of the world's largest companies across four continents—and get front-row access to insights and recommendations you can trust.

Jacobs® is one of the world's largest and most diverse providers of technical, professional, and construction services. They offer full-spectrum support of industrial, commercial, and government clients across multiple markets. Services include scientific and specialty consulting as well as all aspects of engineering and construction, and operations and maintenance.



# 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 NB-IoT and can be deployed in Azure or AWS cloud.

# Unique value proposition

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

Based on the real needs of construction industry

All algorithms fine-tuned to perfection through field deployments

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

# Benefits

<p>Hassle free reporting</p>	<p>Two way safety alerts</p>	<p>Future proof architecture</p>
<p>Significant reduction in unsafe behavior</p>	<p>Availability of safety command center</p>	<p>Higher worker engagement in safety through gamification</p>

For more than 20 years, UST has worked side by side with the world's best companies to make a real impact through transformation. Powered by technology, inspired by people and led by our purpose, we partner with our clients from design to operation. Through our nimble approach, we identify their core challenges, and craft disruptive solutions that bring their vision to life. With deep domain expertise and a future-proof philosophy, we embed innovation and agility into our clients' organizations—delivering measurable value and lasting change across industries, and around the world. Together, with over 26,000 employees in 25 countries, we build for boundless impact—touching billions of lives in the process. Visit us at [UST.com](https://ust.com).

**[ust.com](https://ust.com)**