



Connected Worker - Introduction



The **Connected Worker** increases the Worker Safety and Productivity at Construction Sites or Manufacturing or Treatment plants by :

- 1) Capturing Near Misses
- 2) Increasing Supervision Fidelity
- 3) Reducing Unsafe Behavior

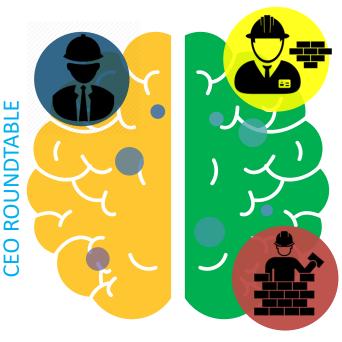
CWS uses Industry 4.0 technologies like IoT, Cloud and Analytics. It is a complete system with a Device, Communication infrastructure and the Cloud application.

CWS also introduces a new paradigm for Safety Management. The use of Gamification to engage workers in Safety activities

UST offers connected worker as a service on a per worker per month pricing model

ENABLERS - DISABLERS

- 1. Management Support
- 2. Supervision
- 3. Communication / Language
- 4. Tight Schedule
- 5. Tools / PPE
- 6. Manpower
- 7. Training
- 8. Skillset
- 9. Rewards & Recognition
- 10.Background / Experience
- 11.Fatigue
- 12.Health Conditions
- 13.Salary
- 14.Weather Condition



- 1. Paper Work KPI
- 2. Walk aimlessly
- 3. Communication / Language
- 4. Tight Schedule
- 5. Short cut

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- 6. Manpower shortage
- 7. Multi hatting
- 1. Boss scold me
- 2. Long working hours
- 3. No training ask do work
- 4. Sudden role change
- 5. Short cut / Faster do work
- 6. Rest area far / Fatigue
- 7. No sense of value

INDUSTRIAL ENGAGEMENT AT ALL LEVELS



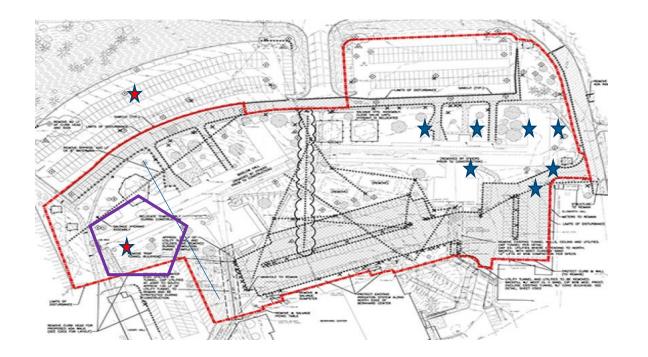


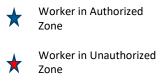
Target Facilities - Examples



USECASE 1 : Realtime Rostering and Supervision Fidelity







USECASE 2 : Fall Detection





Tom has fallen from a ladder and fainted



Site Office Alerted. They dispatch emergency personnel



Tom's Supervisor gets an instant SMS Alert. He rushes to the spot



2

Emergency response team provides first aid & brings him to hospital if required





USECASE 3 : Panic Alarm





Panic Button Pressed!

Site Office Alerted . They send Emergency y Response Team



2 He experienced a heart attack



He remembers and pressed the Panic Button

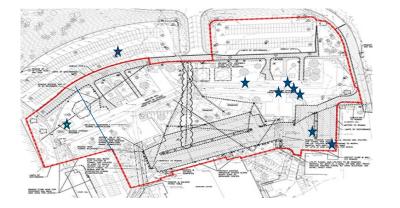


6 Emergency Response Team provides first aid and resuscitates him





USECASE 4 : User Profiling – Geo Tracing



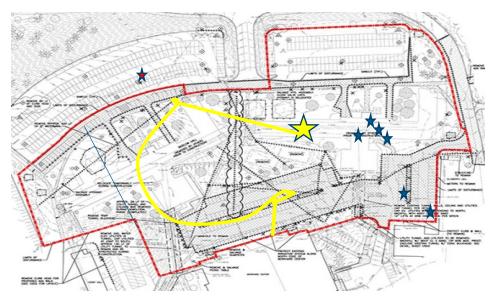
* Area with red tracing is the authorized area

Worker in Authorized Zone with Safety Gear

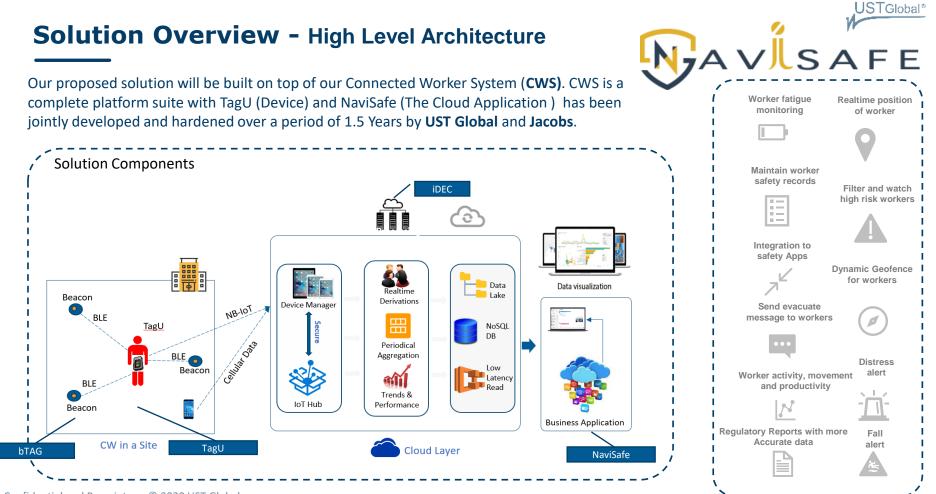
Worker in Unauthorized Zone

We have a productivity challenge with John . Let us analyze his day !

3rd Sept 2018 – 4.40 PM Name : John Unit : ZZZ Supervisor : Steve



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TAG U – OUR DEVICE













Realtime Position Information of each Worker

Ability to filter and watch high risk workers & activity

records including

Training

Dynamic Geofence to protect the workers



Integration to Safety

Apps like ePTW

Maintain worker safety

Worker Fatigue Monitoring





Significant reduction in Unsafe behavior

0) 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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Worker Activity, Movement and **Productivity Analysis** Regulatory Reports with more accurate Data

Gamification of Safety - A new Safety Paradigm

Distress Alert

Fall Alert

Send evacuate message to workers directly







Thank You