Actionable Geolocation Intelligence and Smart Sensing Solution

PEOPLE AND TECHNOLOGY

Workers Safety with IoT and AI

IndoorPlus+ Asset Tracking solution Toxic emissions exposure Use Case



People & Technology

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USE CASE – Workers Safety Reference Use Case



LG Display

- In 2015, 2 workers of the LG Display Factory in Paju, South Korea, died due to unmonitored over-exposure to Nitric Oxide.
- A production stop required for investigation costed USD 30M to the company.

Indoor Plus⁺ Workers Safety



USE CASE – Workers Safety Context

THE PROBLEM

- Some facilities are equipped with hazardous materials and present dangerous zones.
- Employees can occasionally be exposed to dangerous sit uations.
- Workplace accidents causes s erious legal issues and finan cial losses to companies in a ddition to the human harm.

STATUS QUO

- The size discrepancy between the large facility area and low number of workers leads to unwanted isolated situations.
- Loss of personnel track/ locat ion makes it difficult for the r escue team to operate in a ti mely manner.



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OUR SOLUTION

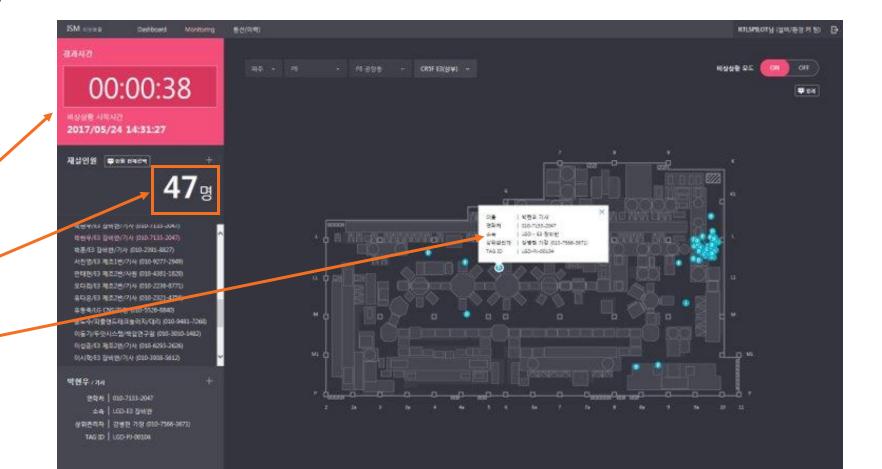
- Use of wearables to track pers onnel movement and location within the facility in real time (Security + Safety)
- Warning notification when a w earable has been removed
- Alarm in case of unauthaurize d access for quick identificatio n and response
- Personnel location history to tr ack back any movement in tim e



USE CASE – Workers Safety

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- All workers wear tags to track the m (badge, bracelet... any type of wearable)
- All workers locations visible on th e map in real time
- Time elapsed since safety alert is give n
- Count of workers on site
- A click on the worker gives the worker's information



USE CASE – Workers Safety



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- Geofenced area to determine zones of danger
 - Number of workers in the defined zon e
- Visual display of the zone on the map

USE CASE – Workers Safety



Required hardware installation

• System up and running 24/7 after installation





BLE TAG

- Coin battery [640mA]
- SOS button
- Gyro/Accelerometer Sensor
- RTC
- Buzzer

- **BLE** Scanner
- BLE 4.0 Supports
- Simultaneous 200
- scanning / sec
- POE support



Indoor Plus* RTLS Server SW

- Location and sensing
- Dashboard
- Alarm and recording

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