PEOPLE AND TECHNOLOGY

Geolocation Intelligence and Smart Sensing

Travel Industry

Airport Asset Tracking – Use Case

People & Technology

2023-Jan

The customer – Incheon Airport
Some context information

Incheon International Airport is the largest airport in South Korea. It is the primary airport serving the Seoul Capital Area and one of the largest and busiest airports in the world.

As of 2021, the airport has been rated by Skytrax as the fourth best airport in the world. Skytrax also has rated the airport as the world's best international transit airport and one of the world's cleanest airports. The airport is one of Skytrax's 5-star airports and also has been awarded for the best airport security in 2021. [3][4][5][6]

Incheon International Airport's terminal has 111 boarding gates altogether, with 44 in Terminal 1, 30 in Concourse A (connected to terminal 1), and 37 in Terminal 2.

Incheon Airport – Real Time Location Asset Tracking

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Pain

- **Efficient operations heavily depends on high-value equipment availability**
- **Very large facilities (Terminals, Hangars, Driveways...) where moveable equipment is often misplaced.**
- **Lack of visibility and up-to-date information on asset status and availability.**

Solution

- **Real Time location of key assets with tags**
- **Seamless Outdoor and Indoor Tracking**
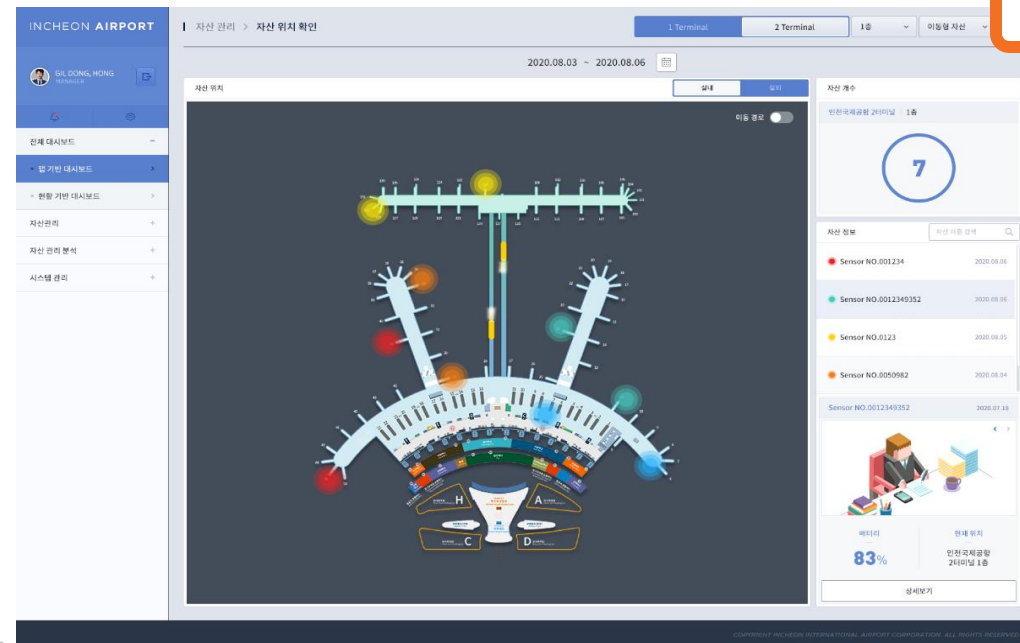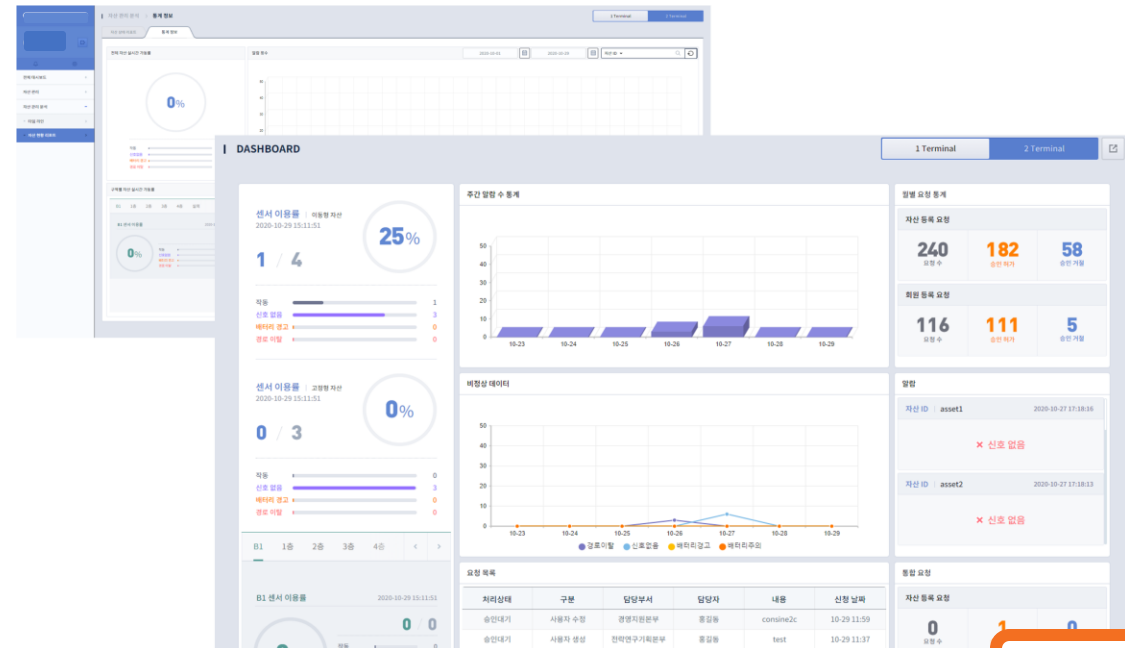- **Operational care to limit active tag battery consumption**

Benefits/Results

PnT RTLS Asset Tracking contributes to
- ✓ **Reduce costs (any estimates?)**
- ✓ **Improve efficiency by preventing time lost**
- ✓ **Prevent Loss or Theft (how effective?)**
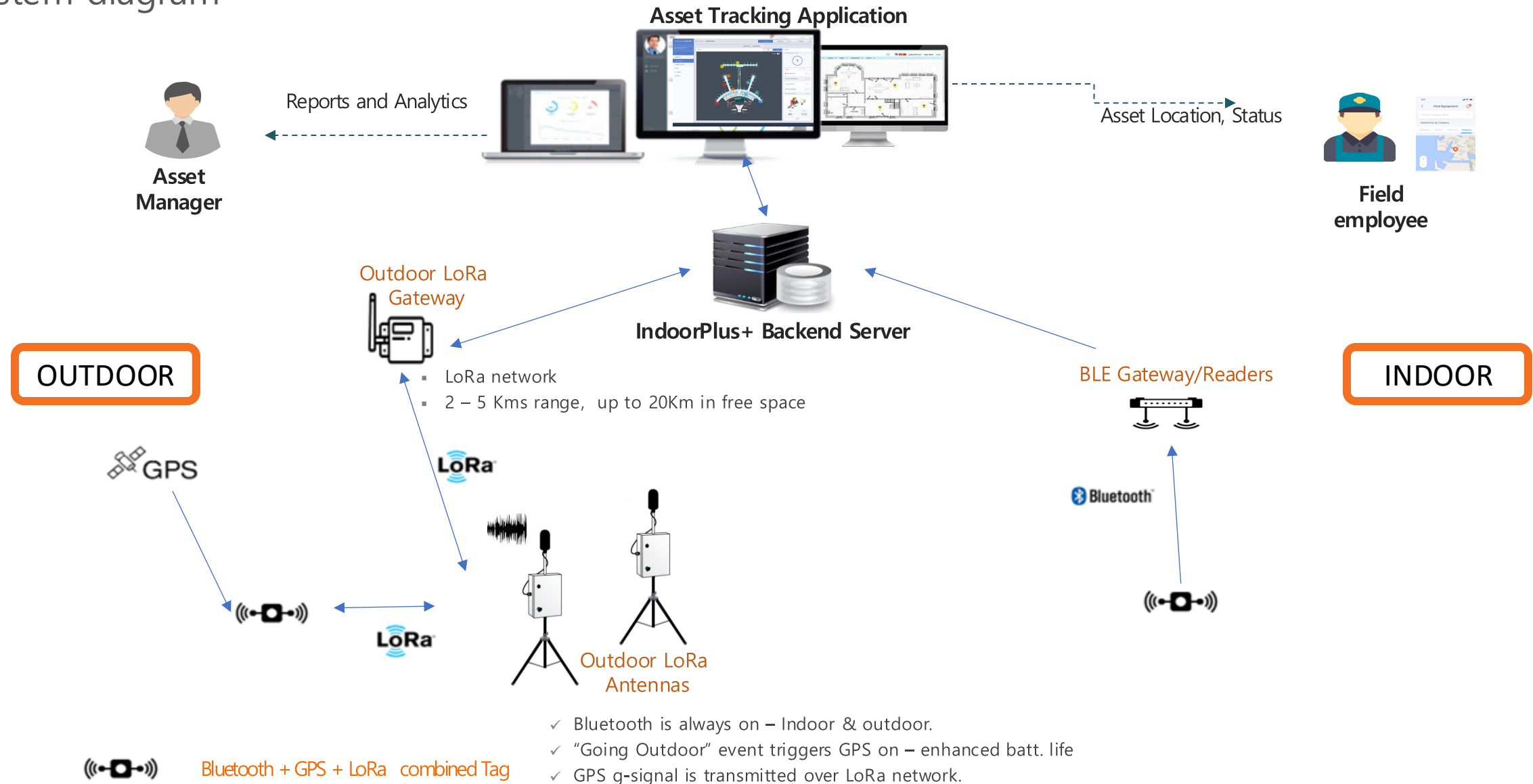
Key functionalities provided
Asset Tracking Application Visuals

INDOOR

IndoorPlus+ Indoor/Outdoor Solution Overview
System diagram

Asset Tracking Application

Reports and Analytics

Asset Location, Status

Asset Manager

Field employee

IndoorPlus+ Backend Server

Outdoor LoRa Gateway

OUTDOOR

INDOOR

BLE Gateway/Readers

- LoRa network
- 2 – 5 Kms range, up to 20Km in free space

GPS

LoRa

Bluetooth

LoRa

Outdoor LoRa Antennas

Bluetooth + GPS + LoRa combined Tag

✓ Bluetooth is always on – Indoor & outdoor.
✓ "Going Outdoor" event triggers GPS on – enhanced batt. life
✓ GPS g-signal is transmitted over LoRa network.

Indoor Plus⁺

Contact: sales@pntbiz.com

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Headquarter, (APAC)
People and Technology
2F, Youngchang Building,
27 Samsung-ro 95-gil, Samsung-dong,
Gangnam-gu,
06159 Seoul – South Korea

Actionable Geolocation Intelligence and Smart Sensing