
PEOPLE AND TECHNOLOGY

Digital Transformation through IoT and AI

Smart Attendance

IndoorPlus+ SmartCare IoT Geolocalization Solutions

In a nutshell

Accelerating hospital digital transformation thanks to Indoor Geolocation Intelligence and Smart Sensing/IoT

PEOPLE AND TECHNOLOGY (PnT)

- **Established in 2013.** Headquarters in Seoul, Korea
- **Leading IoT Healthcare solution provider in South Korea**
- **Subsidiary in Switzerland for EMEA** - Expanding international partnerships
- **End-to-end solution provider**
based on RTLS, LBS and Sensor and AI Data Analytics technology
- **>100 corporate customers / > 70 Hospitals**
- **Healthcare focus** :hospital digital transformation to boost Operational Efficiency and improve Patient Experience

Indoor-Plus⁺ SmartCare



More than 70 hospitals using People and Technology's capabilities

EXCERPT



IoT Healthcare Portfolio on our Unified Platform

Boost Operational Efficiency, Enhance Patient Experience, Empower Staff

PnT Application Platform

PnT IoT Technology

Off-the Shelf Applications

Indoor-Plus⁺ SmartCare

Real Time Location Services



Location Services

- ✓ Asset Tracking
- ✓ Patient Tracking
- ✓ Flow Optimization
- ✓ WayFinding
- ✓ Entrance Management
- ✓ Contact Tracing

Sensor Data Analytics



Sensor-Centric Services

- ✓ Remote Patient Monitoring
- ✓ Patient Room Condition Monitoring
- ✓ Cold Chain Monitoring
- ✓ Device Monitoring
- ✓ Vital Check Automatic EMR Transferring

AI Data Analytics



Clinical Business Operations

- ✓ Asset Management
- ✓ AI Based MRI Reservation
- ✓ Bedsore Intervention
- ✓ Fall-off Intervention
- ✓ Inpatient Pain Management
- ✓ After Operation Care

Improving workplace regulations compliance, workforce productivity and safety through **real-time monitoring** and **location information**



Tracking



Employee location – real-time, on map

Access Security



Detailed headcount and zone-entry restrictions

Visualization



Digital maps of the facilities

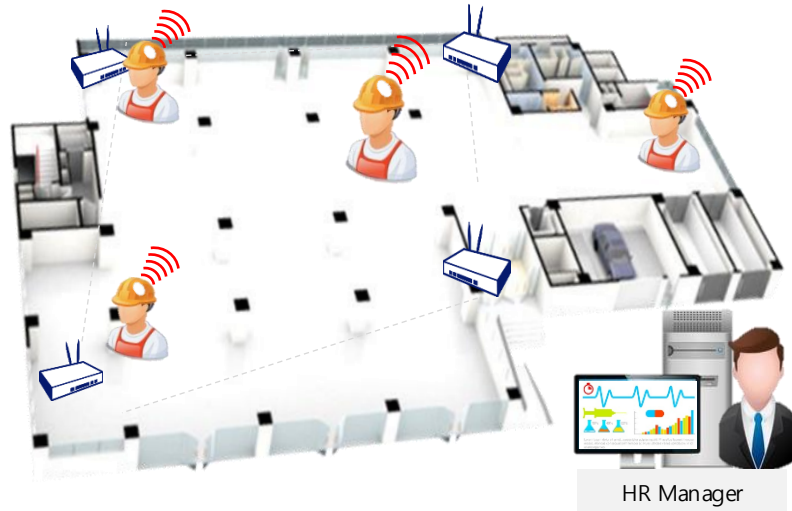
Safety



Integrated with safety systems – alerts, firefighting, dispatch-orders

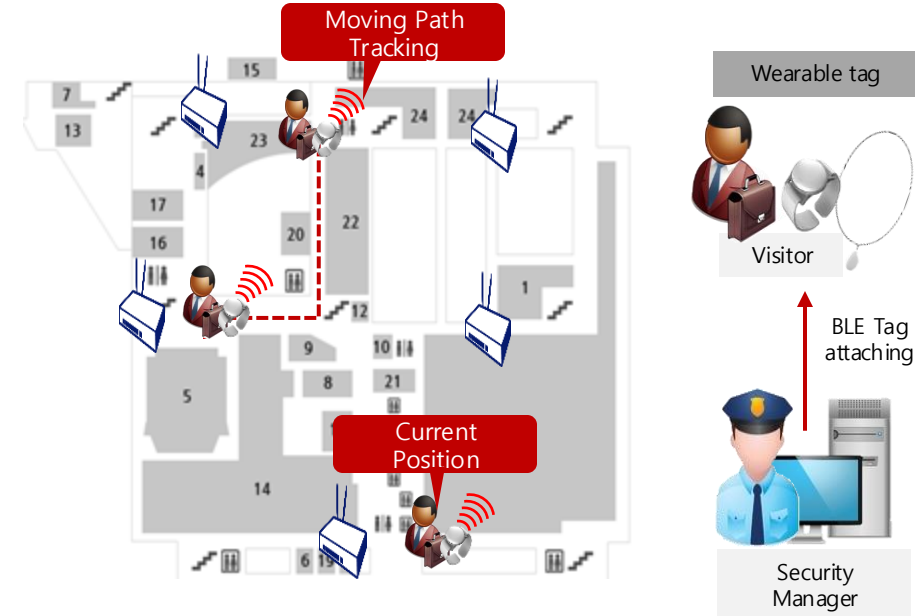
Attendance & Access Security

Staff Attendance Management



- ① Installation of Beacon Scanners
- ② Distribution of Beacon Tag to Target
- ③ Arrangement of Staff
- ④ Tracking data to be used as administrative data :
 - Staff location record in given period
 - Restricted zone access history
 - Heatmap

Visitor Location Tracking



- ① Distribute Beacon Tag to visitors and register to system
- ② Tracking of Visitor
- ③ Monitoring Visitor location with purpose of visit
- ④ Alert Visitor at risk area or restricted area entrance (geofenced zone)

Geolocation?

IndoorPlus+

People & Technology

Dashboard

Present State

Control

Map

Monitoring

Statistics

Scanner

Beacon

Geofencing

Service

Contents

Basic Information

Dashboard > Control

Summary Information

Number of beacons30

Choose Floor

1st Floor

Geofencing

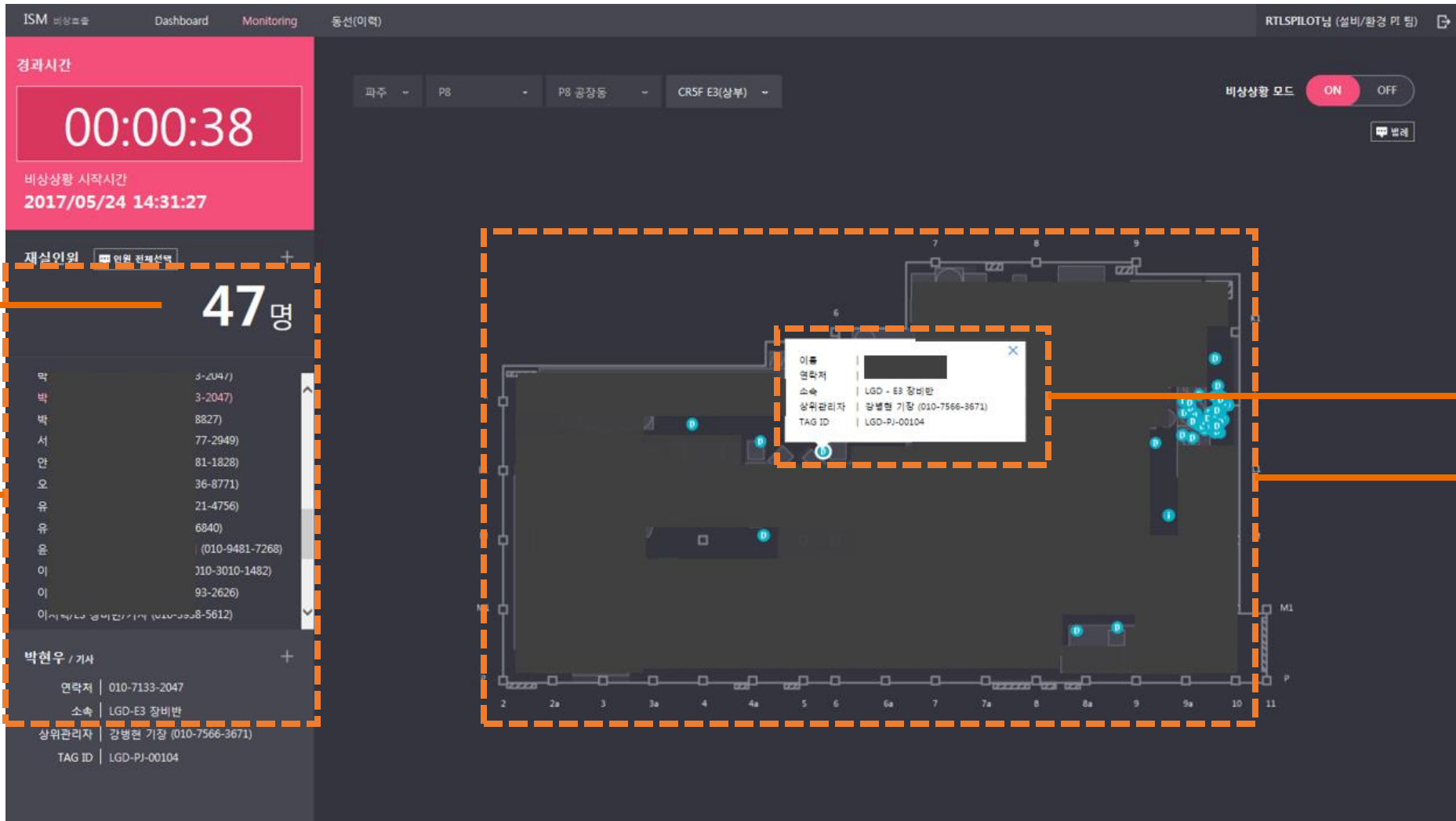
0 selected

Entry information

| Target Name | Entry Time | Residence time |
|---------------|------------|----------------|
| ID#2000010010 | 16:59:04 | 00:02:32 |
| ID#2000010030 | 16:57:36 | 00:04:00 |
| ID#2000010028 | 16:57:20 | 00:04:16 |
| ID#2000010029 | 16:56:56 | 00:04:40 |
| ID#2000010027 | 16:56:44 | 00:04:52 |
| ID#2000010026 | 16:56:27 | 00:05:09 |
| ID#2000010025 | 16:56:13 | 00:05:23 |
| ID#2000010024 | 16:55:59 | 00:05:37 |
| ID#2000010023 | 16:55:46 | 00:05:50 |
| ID#2000010022 | 16:55:31 | 00:06:05 |
| ID#2000010021 | 16:55:19 | 00:06:17 |
| ID#2000010020 | 16:55:06 | 00:06:30 |
| ID#2000010019 | 16:54:40 | 00:06:56 |
| ID#2000010018 | 16:54:11 | 00:07:25 |
| ID#2000010017 | 16:53:54 | 00:07:42 |

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Location on Map



Staff details

Localization zone

Staff count in Zone

List of Staff

Headcount Dashboards

Site overview

Zones summary



Various staff record
ed states
(Custom feature)

Presence per Zone and Category (employees, contractors, visitors)

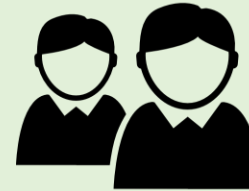
USE CASE – Attendance

People Tracking



Indoor-Plus+ SmartCare

Delivering Value across the organization



Staff

- Time saving : No burdensome process to record attendance
- Safety : Constant tracking for quick response in case of emergency, accident and isolated situation



Human resources

- Optimized Staff/Visitors management and data-collection
- Prevent staff non-compliance to company attendance rules
- Track staff location in real time
- Data-driven recruitment forecast



High-level management

- Cost savings with increased staff productivity
- Enhanced facility Security with zone entry/exit monitoring

Solution Overview

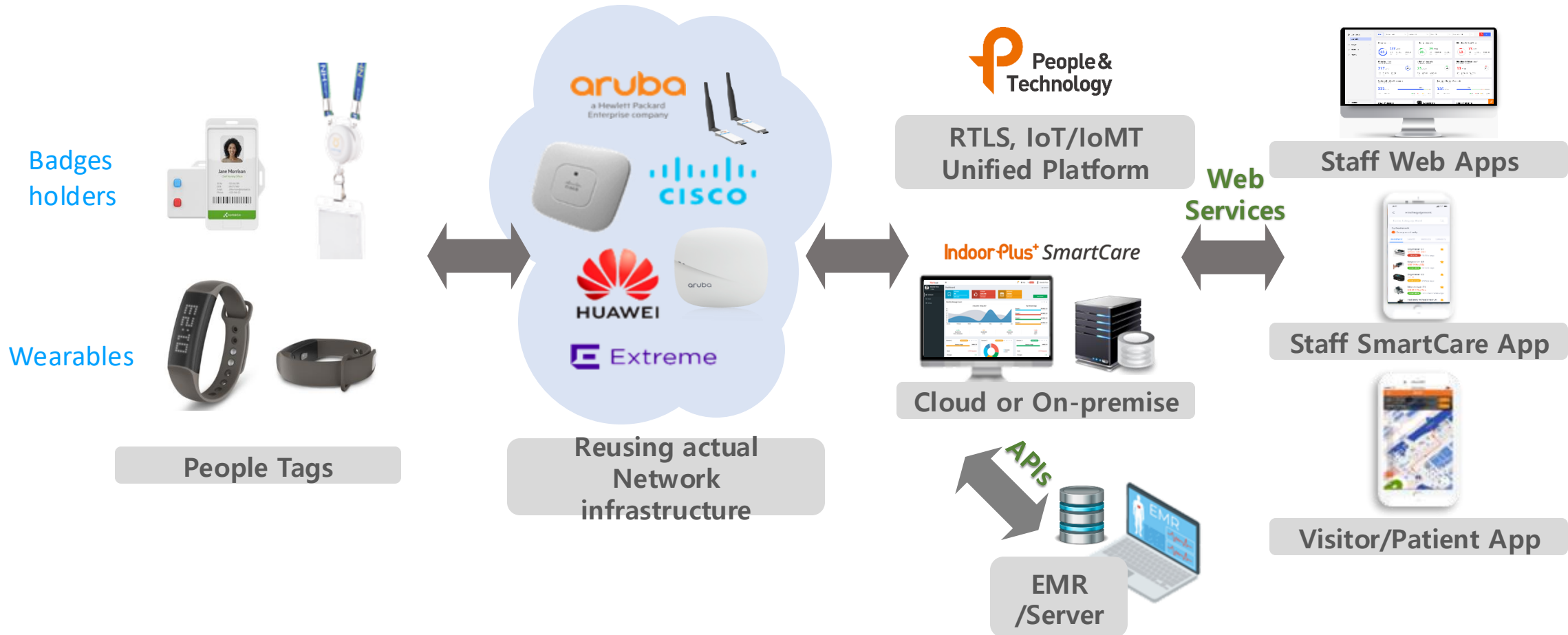
More Flexible, Highly Scalable and Expandable

TRACKED ELEMENTS
(People)

DATA COLLECTION

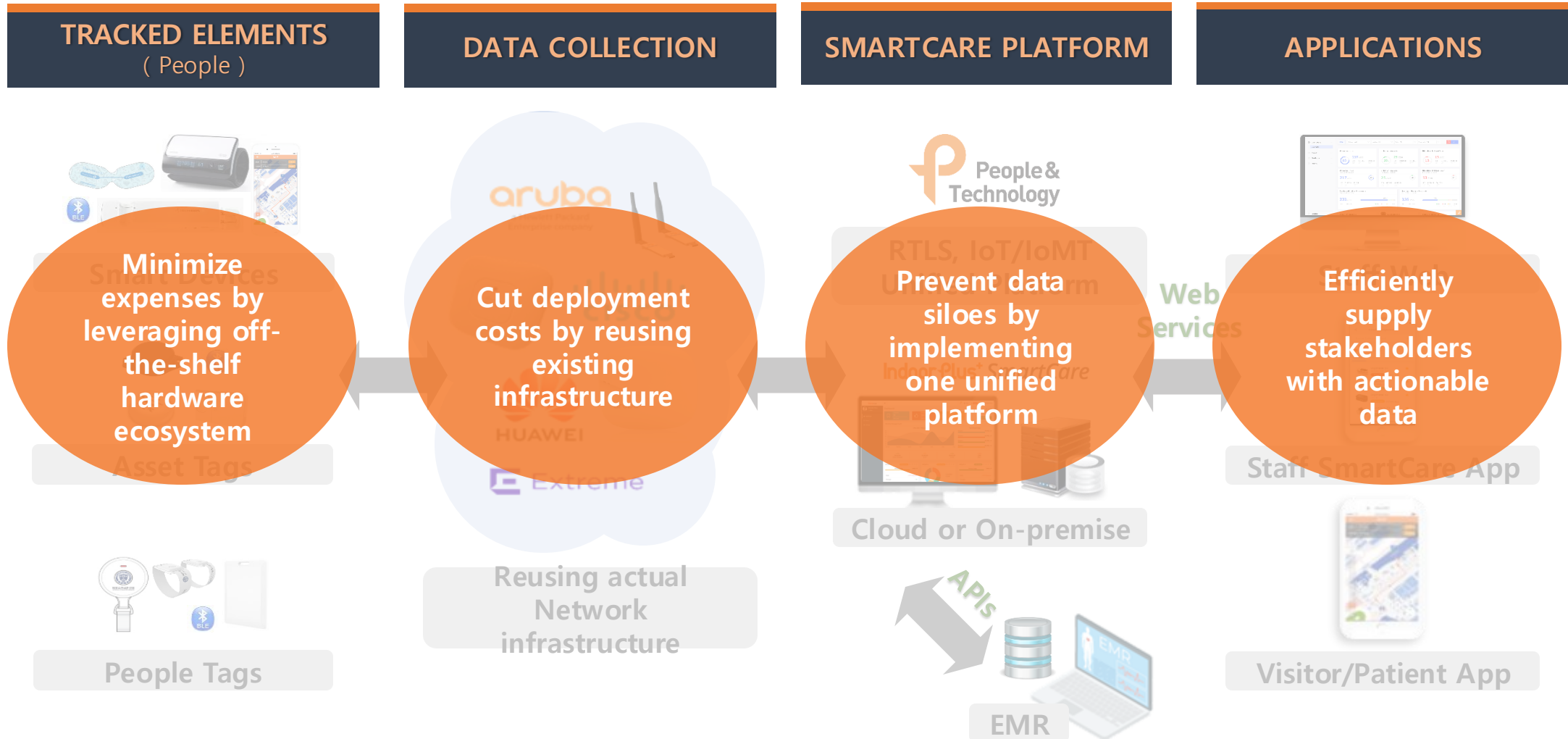
SMARTCARE PLATFORM

APPLICATIONS

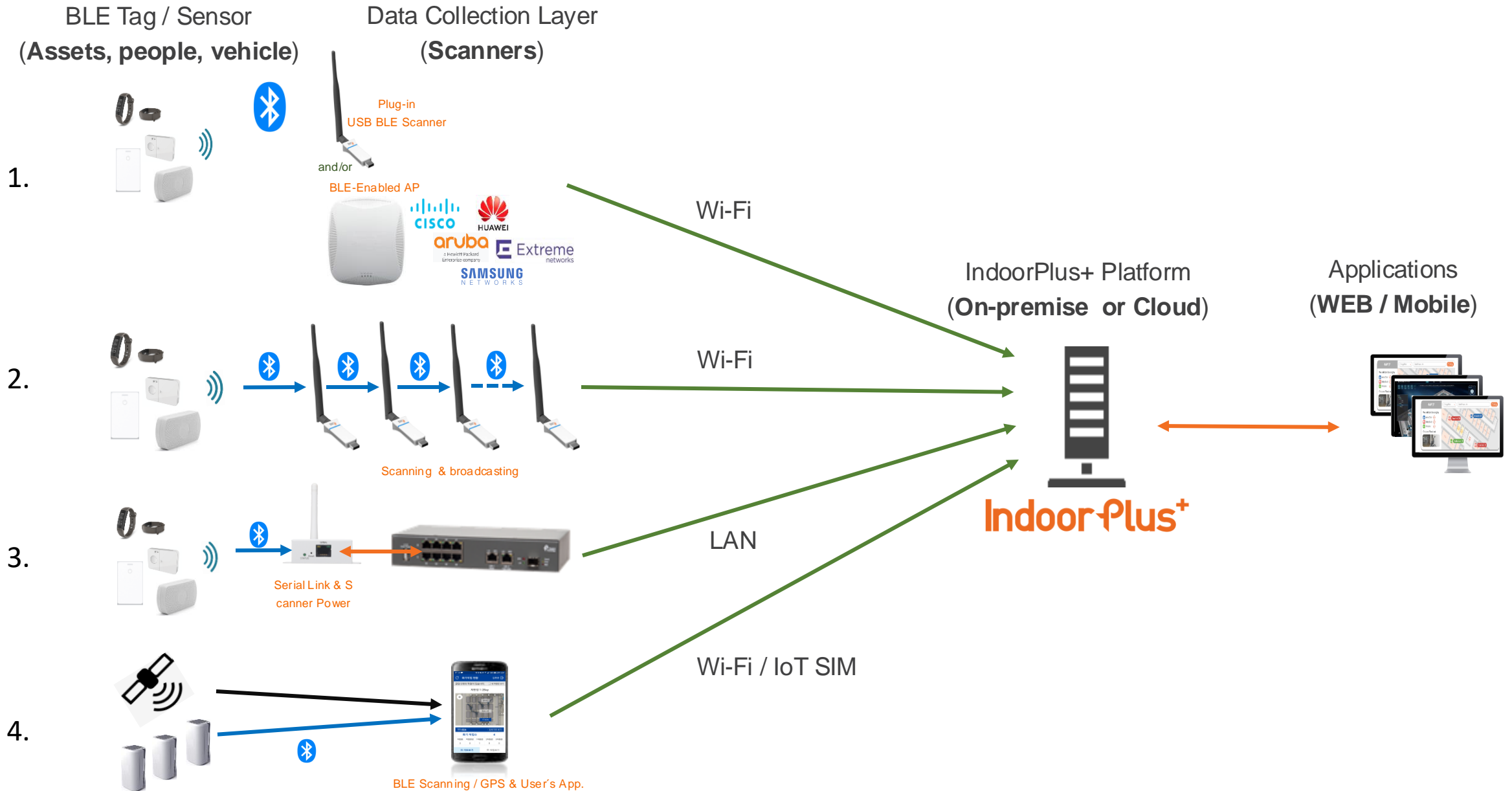


Solution Overview

More Flexible, Highly Scalable and Expandable



Data Collection Deployment examples



A white circle with a thin orange outline, connected to the bar by a thin orange line.

Simple installation : does not require complicated tuning

A white circle with a thin orange outline, connected to the bar by a thin orange line.

Easy to maintain : does not require periodical calibration nor re-tuning.

A white circle with a thin orange outline, connected to the bar by a thin orange line.

Minimal requirements on infrastructure : multiple options for deployment

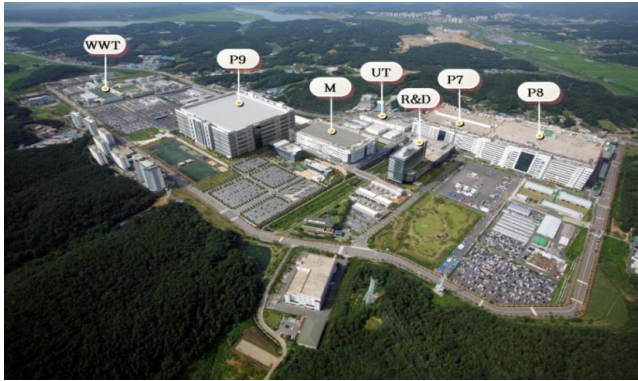
A white circle with a thin orange outline, connected to the bar by a thin orange line.

Integrated with leading network equipment providers : Cisco, HPE Aruba, Huawei, Samsung, Extreme, Cassia

A white circle with a thin orange outline, connected to the bar by a thin orange line.

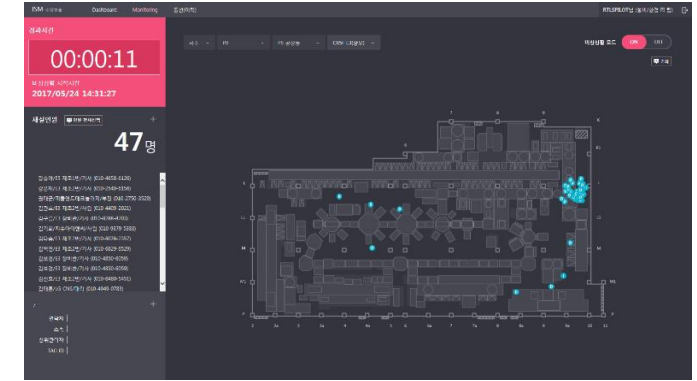
Best Balance : Complexity/Cost/Results

Typical use-case implementations in various business sectors



ELECTRONICS – Manufacturing plant

Worker Safety – Real-time location of workers in case of emergency. Lonely worker monitoring in dangerous zones.



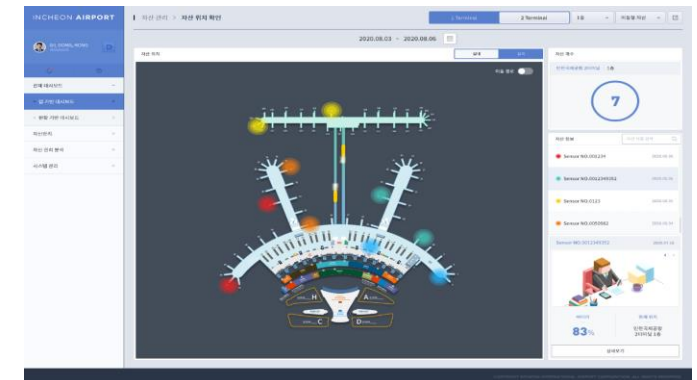
COSMETICS – several manufacturing plants and Headquarters

Security – Monitoring of contractors in plants; HR Compliance of employees related to access control - Visitor and non-employee Management



TRANSPORTATION – top 10 busiest international airport in 2023

Asset Tracking - Outdoor/Indoor
Wayfinding for Airport Passenger Mobile Experience



Typical use-case implementations in various business sectors



HYUNDAI MOTOR GROUP

DATA CENTER

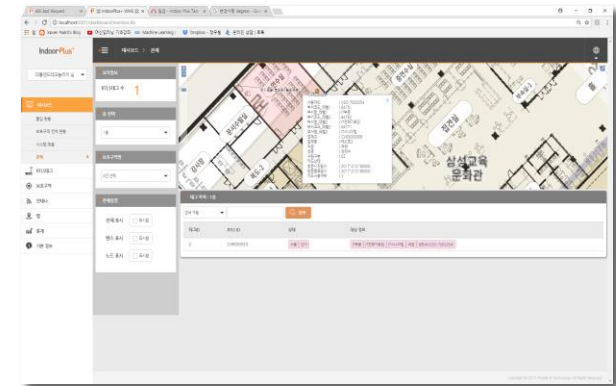
Security and Safety – monitoring of day-to-day activities, compliance with access policy, complementing CCTV and access control.



NH Bank

BANKING – Headquarters

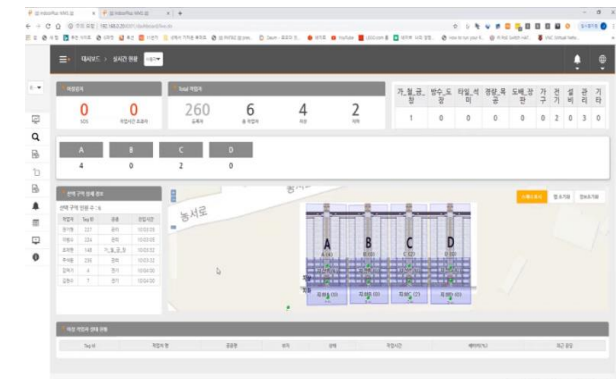
Security – Compliance of Employees related to access control



SAMSUNG SAMSUNG C&T

CONSTRUCTION

Attendance and Safety



Flexible

Cloud or On-Premise solution

**Investment
Protection**

Leveraging and/or complementing existing/deployed network + multi-vendor BLE ecosystem of Tags

Scalable

One software platform to address many use cases (Outdoor/Indoor RTLS, Navigation, Smart Sensing)

Open

Industry specific Front-ends/Apps + APIs for integrations

Proven

Multiple projects delivered in various industries and environments



<https://healthcare.indoorplus.io/>

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Actionable **Geolocation Intelligence** and **Smart Sensing**