ThingsFactory

THINGS SERVICE

SMART MANUFACTURING

THE FUTURISTIC PRODUCTION

AUTOMATED CONVEYOR

AUTOMATIC ASSEMBLY

A HOLOGRAPHIC CONTROL PANEL

IDENTIFYING PROBLEMS

ARTIFICIAL INTELLIGENCE

REMOTE CONTROL

SERVER-SIDE

ROBOTIZED MANUFACTURE

ENGINEERING CENTRE

ROBOTIC EQUIPMENT

QUALITY CONTROL

PRODUCTION DATA CENTER

AUGMENTED REALITY

MODERN MECHANICAL ENGINEERING

UTILIZATION OF WASTES

AUTOMATED WAREHOUSE

Manufacturing Execution System
ThingsFactory

- Semiconductor & Display
- Beverage & Pharmaceutical & Food
- Electrical & Electronic
- Automotive & Heavy equipment
- Metal & Chemical
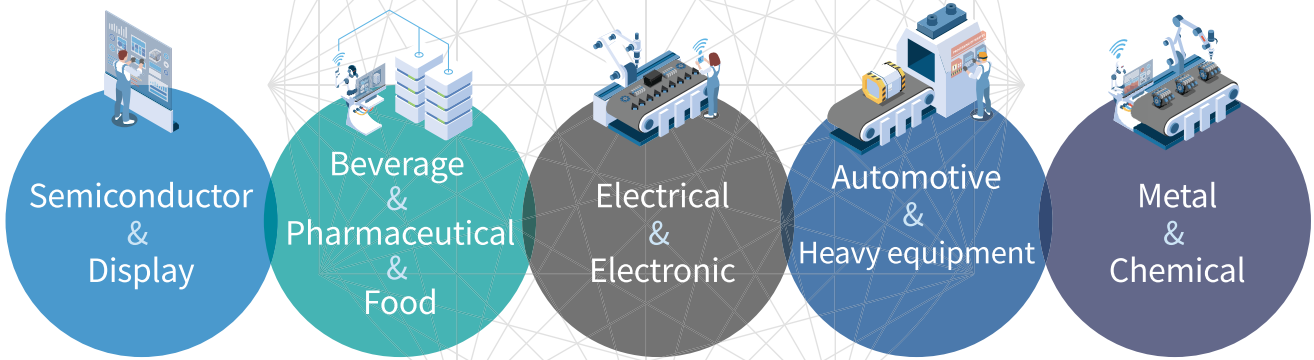
Real-time manufacturing logistics management
Understanding and managing ever-changing logistics status in real time

Quick response to changing market environment
Perfect response to changing business situations with flexible system structure and rapid software development

Effective management of production resources
Improve utilization rate by checking production resource

Real-time monitoring of site conditions
Real-time monitoring of the manufacturing site, including process / robot / operation / logistics / stock status and more.
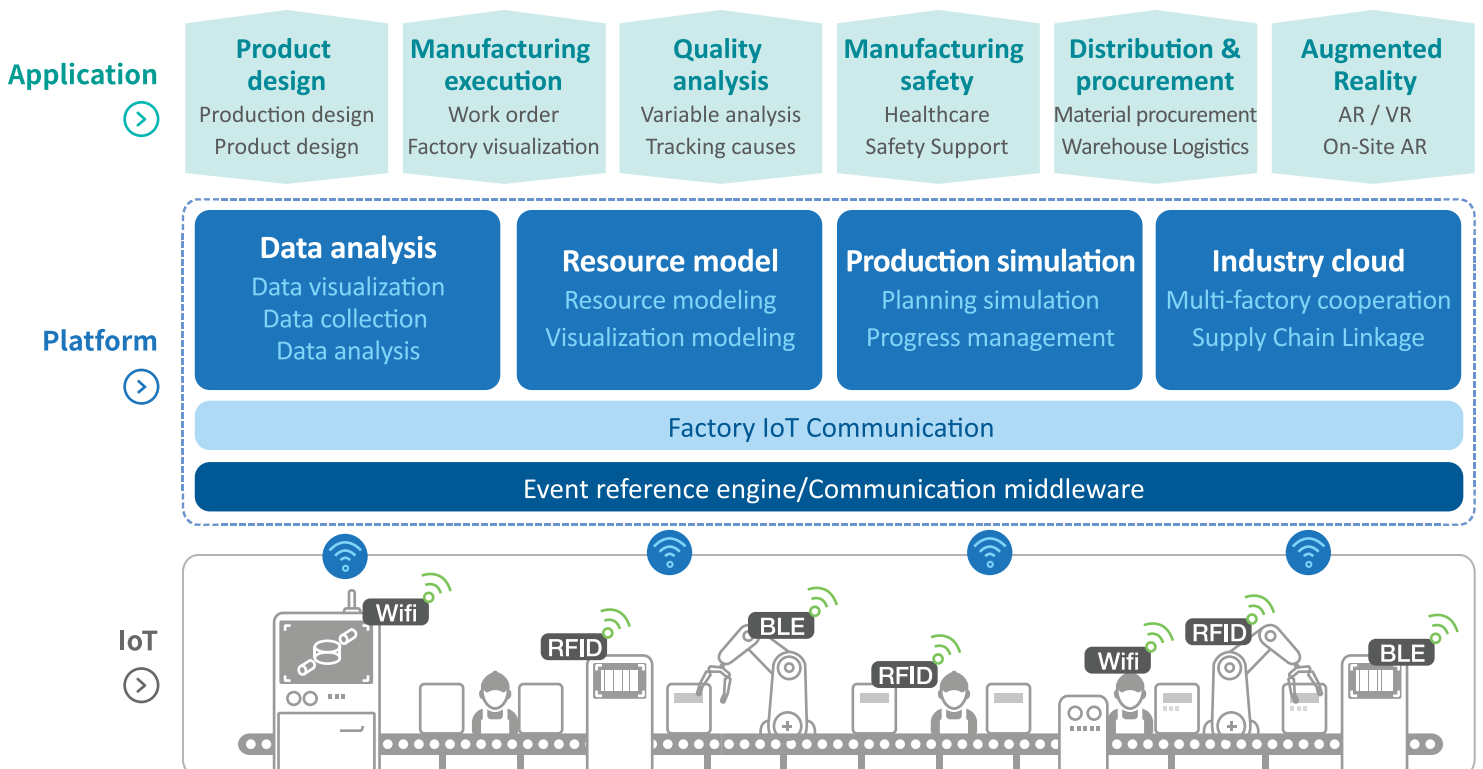
The best quality management
Provide the reference data in case of a defect for analyzing the causes of the quality issues

Multi-Device Support
Mobile device support, such as Tablet, PDA, and wireless scanner for smart factory implementation

☐ Smart Factory Model

Application

Product design	Manufacturing execution	Quality analysis	Manufacturing safety	Distribution & procurement	Augmented Reality
Production design	Work order	Variable analysis	Healthcare	Material procurement	AR / VR
Product design	Factory visualization	Tracking causes	Safety Support	Warehouse Logistics	On-Site AR

Platform

Data analysis	Resource model	Production simulation	Industry cloud
Data visualization	Resource modeling	Planning simulation	Multi-factory cooperation
Data collection	Visualization modeling	Progress management	Supply Chain Linkage
Data analysis			

Factory IoT Communication

Event reference engine/Communication middleware

IoT

Wifi · RFID · BLE · RFID · Wifi · RFID · BLE

HatioLab dreams of a better world that manufacturing innovation will bring.

Beyond the traditional way of production that was operated manually, experience better service to collect and analyze field data in real time and monitor and control the entire manufacturing process.
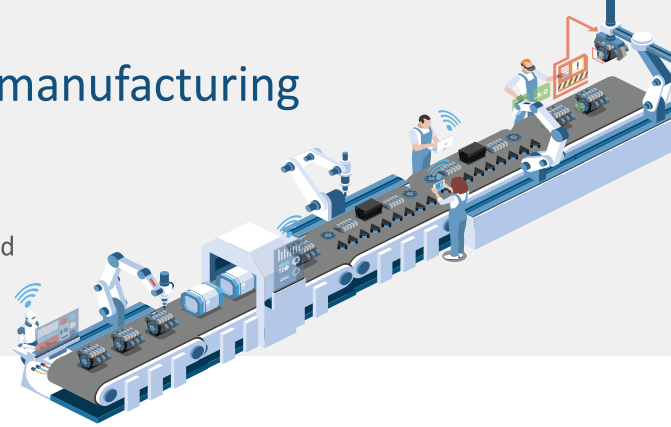
☐ Things Factory

- Smart factory building platform that can collect and share necessary information in real time such as production planning, work order, job progress, quality information
- Providing easy and convenient user environment with web-based UI, user authority by job type, and globalization support
- Flexible product configuration, short deployment period, scalability and easy maintenance make it possible to respond to customers of various sizes

☐ Factory Automation

- Implement an environment that can provide customers with the necessary information by collecting and analyzing data from various facilities, sensors, and robots in the field
- Provide highly flexible UI and ease of use compared to traditional HMI
- Support various protocols for data collection of on-site equipment, sensors, robots, etc.(Modbus, Socket, MQTT etc.)
- Ensure stability of data communication using proven middleware through many projects

☐ Dashboard & Report

- Designing customer site layouts and equipment, provides a dashboard and 3D visualization environment that can collect and analyze field information in real time
- Efficient decision support with reports that are reflected in real-time
- Compose various report screens and implement reports using complex and various types of charts
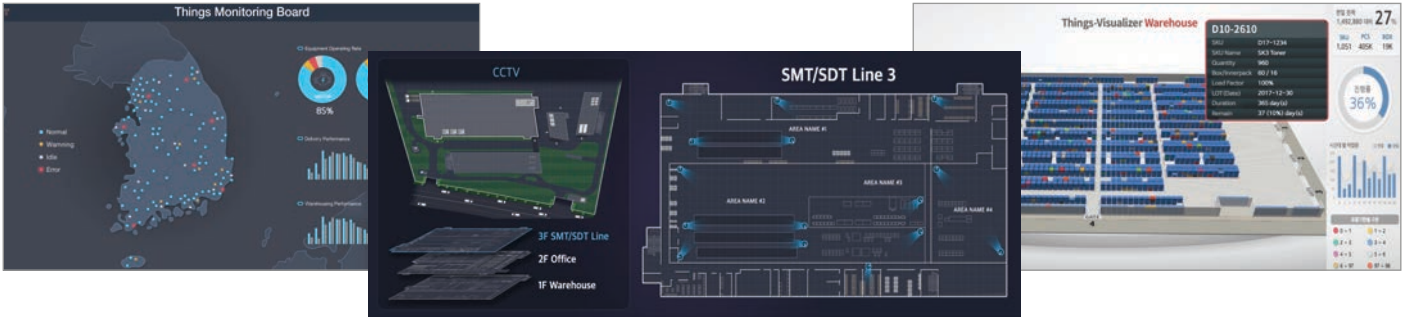
ThingsBoard
Real-time Monitoring Solution

Any data can be easily designed and monitored in various forms.

Dashboard, KPI report, equipment / process / stock status, logistics / distribution / transportation status are designed with web standard graphic integrated modeler and real-time monitoring is possible using 2D, 3D and map based service.

ThingsRTLS
Real-time Location System

Can be used in smart factories, logistics, construction, public facilities, event hall and more!

It can be applied to various fields such as indoor navigation(Picking, Put-away), work safety(Danger Zone Warning) and work guide, resource movement efficiency and utilization analysis, and augmented reality.
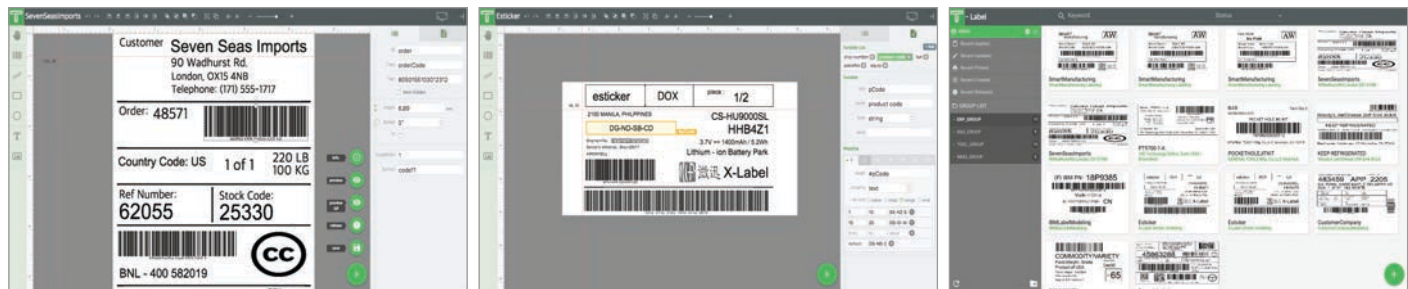

ThingsLabel
Barcode Label Management Solution

Integrated solution for business label management!

Non-specialist can design/print barcode labels as easily as paint. It supports not only 80 types of barcodes such as code11, code39, EAN13 and QR, but also manages the entire label of the company.