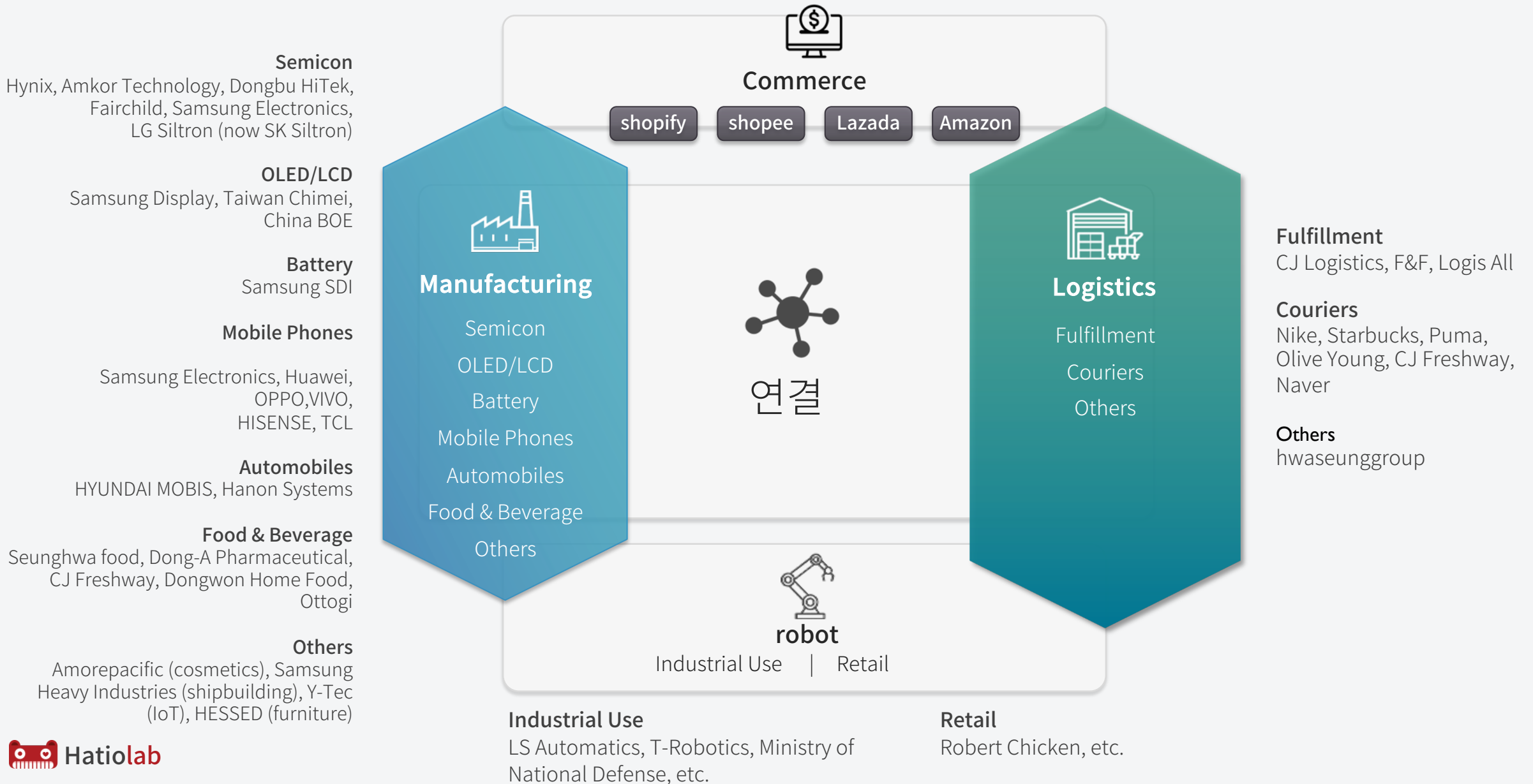# Overview of Hatiolab 2024

Hatiolab Co., Ltd. is a specialized service company in smart factory and smart logistics. With extensive project experience and know-how, it enhances corporate value for both domestic and international companies. Utilizing a self-developed framework, it operates and evolves its products, taking pride in its technological capabilities.
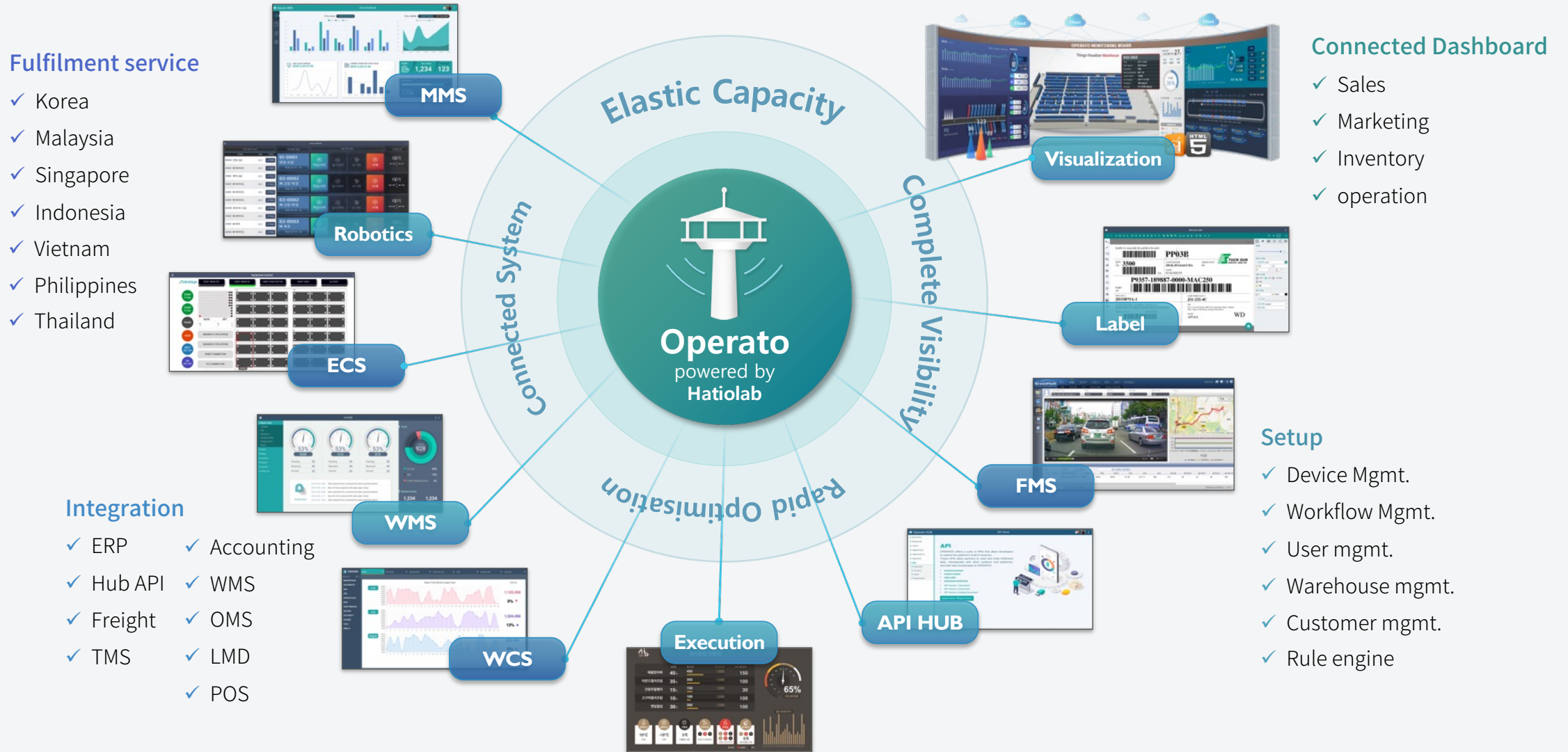
Although it is a small and medium-sized enterprise, it seeks to double its growth by being a strategic business partner for customer success.

Company	**Hatiolab Co., Ltd.**
CEO	Jong Ho Nam
Establishment	October 8, 2012
Employees	12 in Korea / 30 in Malaysia
Business	Smart Manufacturing / Smart Logistics / Monitoring Solutions / IoT / Robotics

Head Office
Gyeonggi-do, Seongnam-si, Sujeong-gu, Chang-up Road 42, Enterprise Growth Center, 714-715

HatioSEA in Malaysia
8-1 Jalan Setia Utama AU U13/AU Setia Alam 40170 Shah Alam, Selangor, Malaysia

Hatio Technology (Dalian) in China
辽宁省大连高新技术产业园区七贤岭学子街2-1号园内1号楼2单元4楼407室

Hatiolab

History and SCM of Hatiolab

Semicon
Hynix, Amkor Technology, Dongbu HiTek, Fairchild, Samsung Electronics, LG Siltron (now SK Siltron)

OLED/LCD
Samsung Display, Taiwan Chimei, China BOE

Battery
Samsung SDI

Mobile Phones
Samsung Electronics, Huawei, OPPO,VIVO, HISENSE, TCL

Automobiles
HYUNDAI MOBIS, Hanon Systems

Food & Beverage
Seunghwa food, Dong-A Pharmaceutical, CJ Freshway, Dongwon Home Food, Ottogi

Others
Amorepacific (cosmetics), Samsung Heavy Industries (shipbuilding), Y-Tec (IoT), HESSED (furniture)

Commerce

shopify | shopee | Lazada | Amazon

Manufacturing
Semicon
OLED/LCD
Battery
Mobile Phones
Automobiles
Food & Beverage
Others

연결

Logistics
Fulfillment
Couriers
Others

Fulfillment
CJ Logistics, F&F, Logis All

Couriers
Nike, Starbucks, Puma, Olive Young, CJ Freshway, Naver

Others
hwaseunggroup

robot
Industrial Use | Retail

Industrial Use
LS Automatics, T-Robotics, Ministry of National Defense, etc.

Retail
Robert Chicken, etc.

Hatiolab

Core Technologies and Products of Hatiolab for Control Tower

Fulfilment service
- ✓ Korea
- ✓ Malaysia
- ✓ Singapore
- ✓ Indonesia
- ✓ Vietnam
- ✓ Philippines
- ✓ Thailand

Integration
- ✓ ERP   ✓ Accounting
- ✓ Hub API   ✓ WMS
- ✓ Freight   ✓ OMS
- ✓ TMS   ✓ LMD
                       ✓ POS

Connected Dashboard
- ✓ Sales
- ✓ Marketing
- ✓ Inventory
- ✓ operation

Setup
- ✓ Device Mgmt.
- ✓ Workflow Mgmt.
- ✓ User mgmt.
- ✓ Warehouse mgmt.
- ✓ Customer mgmt.
- ✓ Rule engine

Elastic Capacity

Connected System

Complete Visibility

Rapid Optimisation

Operato
powered by
Hatiolab

MMS · Robotics · ECS · WMS · WCS · Execution · API HUB · FMS · Label · Visualization

Hatiolab

Operato Products

Logistics Specialized Framework

The web-based logistics-specific framework provides classification container and facility plug-in.

High Flexibility

Rapid response to changing logistics environment and optimized service for each customer are available and setting profile is provided.
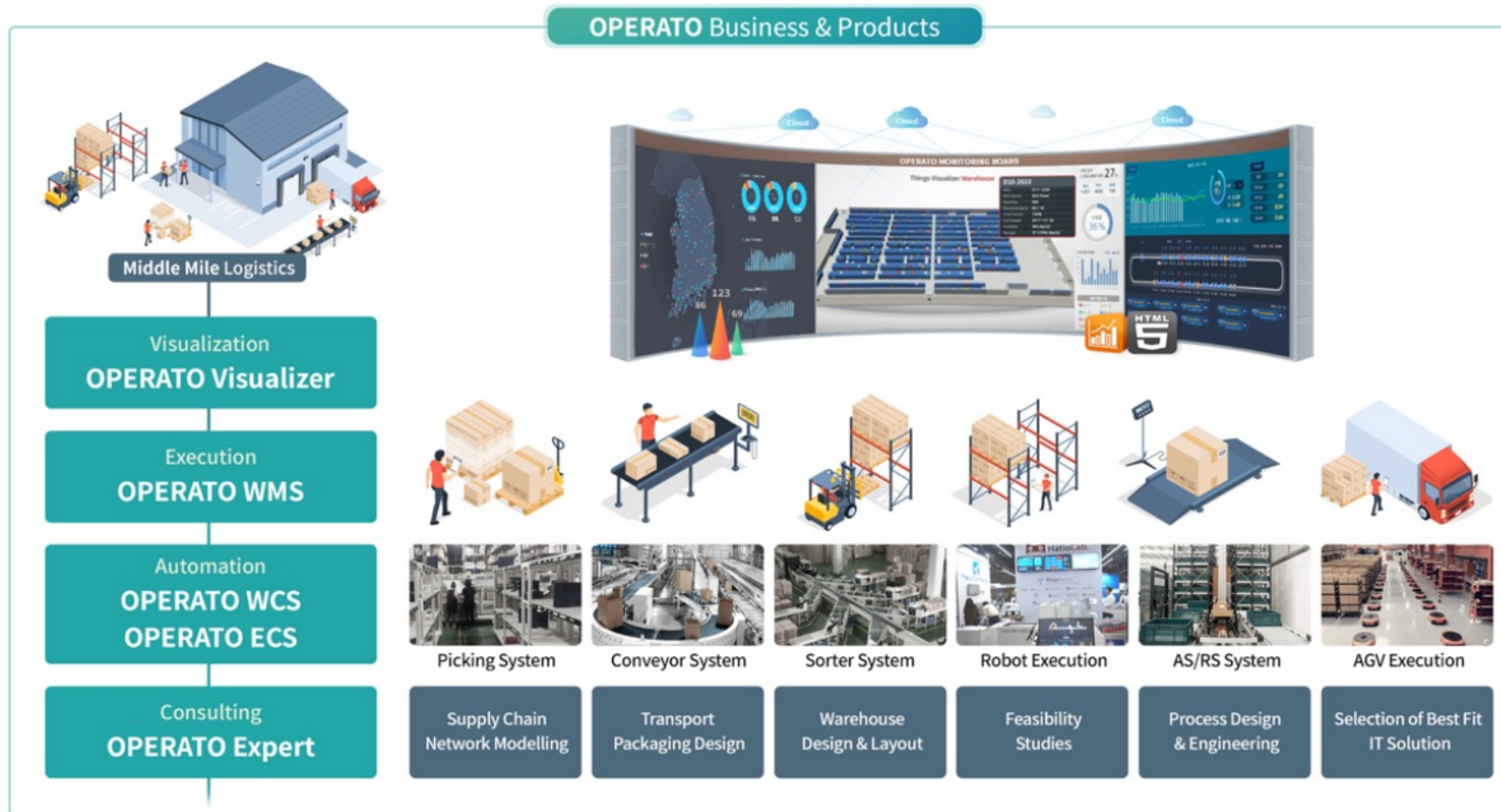
Provide Integrated Monitoring

Real-time monitoring is possible by providing web-based 2D and 3D status of distribution center facilities and warehouses.

Sorting Facility Operation

B2B, B2C specialized module and high-speed classification module can be provided. Efficient resource management through WCS.

Facility Optimized Operation

Plug-in type facility operation, real-time order merge reduces facility idle time, increase the utilization rate.

Classification container

Provides classification API, classification module management, processing of many changing and complex processes

OPERATO Business & Products

Middle Mile Logistics

Visualization
OPERATO Visualizer

Execution
OPERATO WMS

Automation
OPERATO WCS
OPERATO ECS

Consulting
OPERATO Expert

| Picking System	Conveyor System	Sorter System	Robot Execution	AS/RS System	AGV Execution
Supply Chain Network Modelling	Transport Packaging Design	Warehouse Design & Layout	Feasibility Studies	Process Design & Engineering	Selection of Best Fit IT Solution

Operato Visualizer

✓ You can monitor the real-time status and operation of each production line and respond promptly to any issues.

✓ It is possible to integrate with various existing monitoring systems and purchase additional data from the Data Hub.

✓ Without installing a separate program, you can use the easy-to-use interface on any device to manage and configure detailed data conveniently.

Operato OMS

✓ Reliable, Real Time Marketplace Management Platform

Online Marketplaces

MY
SG
ID
PH
VN

brand.com
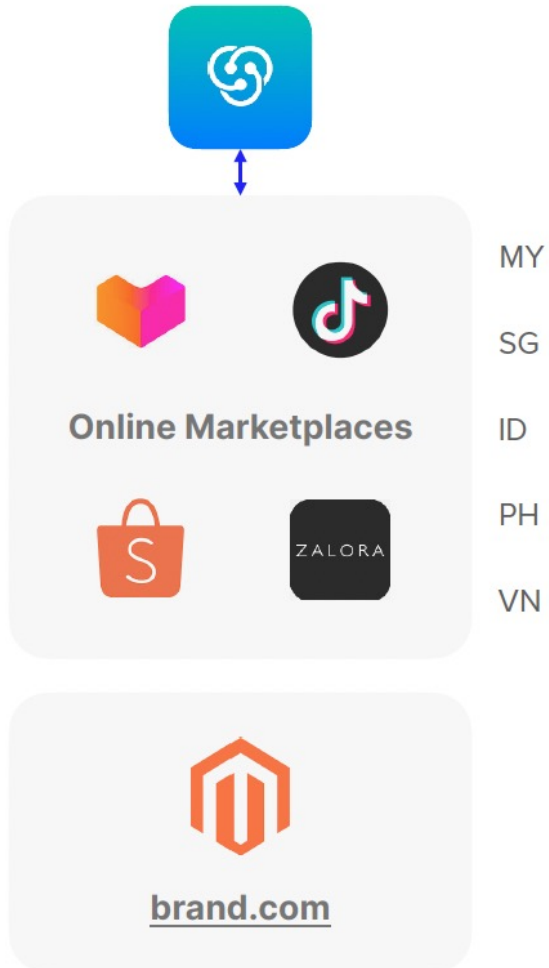
Master Data Management

- Product Master Management
- SKU, iSKU, CSKU, Product Description, Product Values and Key Information

- Product Data to be pushed to multiple platforms (ie. ERP, Accounting System, Xilnex, Magento)

Catalogue Management

- Product Information Management
- Product Bundling
- Promotions - Gift with Purchases

- Catalogue Details real time sync into Marketplaces

Inventory Control

- One source of Inventory Control
- Set buffer quantity, reserved quantity, and locked quantity
- Set sellable quantity for individual SKU and in bulk

- Inventory Sync from Warehouse, Retail POS to Marketplaces

Order Management

- Process all orders
- Monitor order statuses
- Orchestrate order fulfilment to different fulfilment centres and retail POS for self pickup

- Orchestrate orders to different countries - MY, SG, ID, PH, VN

Operato WMS

✓ System Guided Warehouse Management System to process B2B, and B2C Orders seamlessly within SLA

Warehousing & Fulfilment
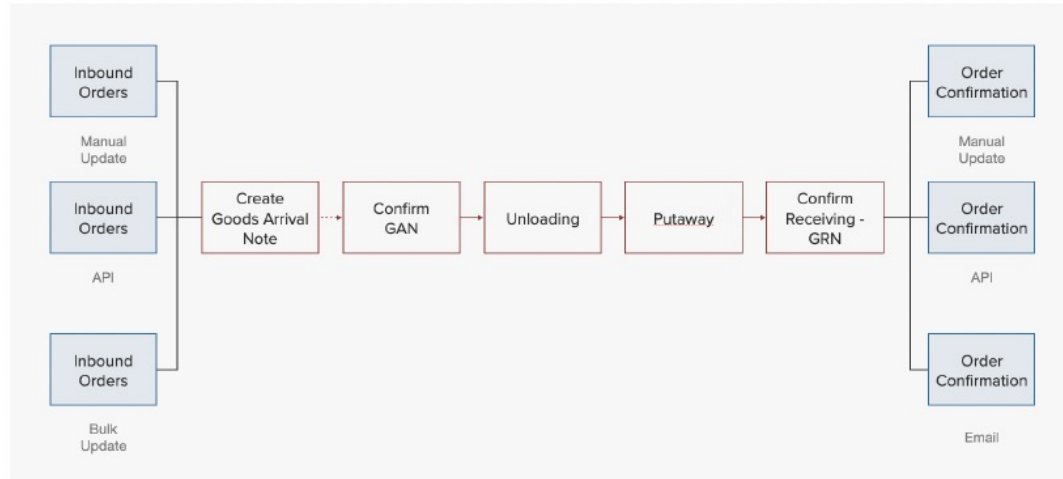
Warehouse Inbound

- Monitor Inbound Orders from PO, Manual Order Creation
- Setup of Warehouse Inbound Processes
  - Piece Counting
  - Bulk Update Quantity
  - Serial Number Scanning
  - Piece by Piece Scanning
- Putaway to Location based on SKU, suggested location
- Auto Generate GRN based on company's settings and template
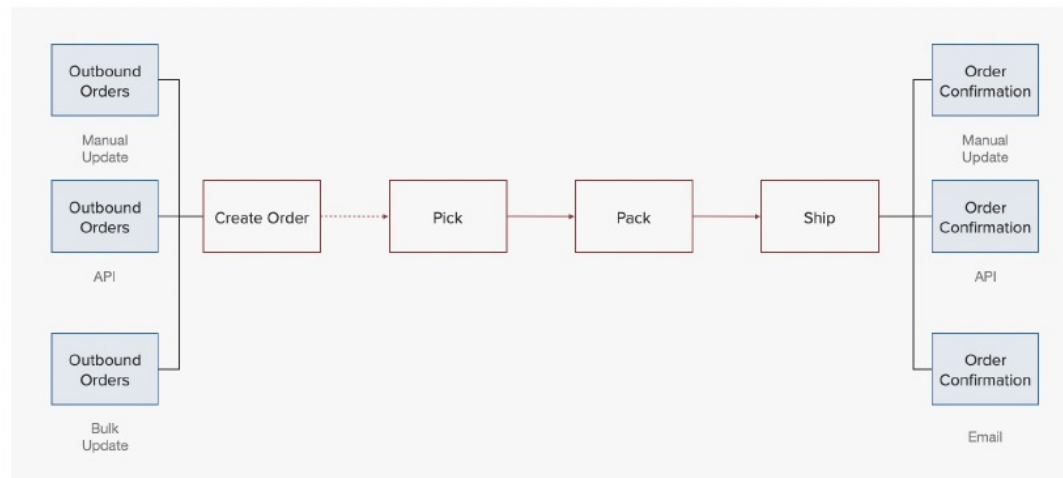
Warehouse Outbound

- B2B and B2C Outbound Processes
- Setup of Warehouse Outbound Processes
  - Piece Scanning
  - Bulk Update Quantity
  - Batch Management
  - FEFO, FIFO, FMFO, By Batch or By Assigned Location
- AWB Sync from Marketplace
- Auto-assign designated 3PL Courier Providers

Operato WCS

✓ Comprehensive logistics solutions from leading automated systems in Korea to Southeast Asia, covering everything from material handling to shipping.

✓ Professional logistics planning with AGV, conveyors, cranes, and mobile equipment for diverse environments.

✓ Real-time, flexible processes with customizable setups and displays for adaptive logistics management.
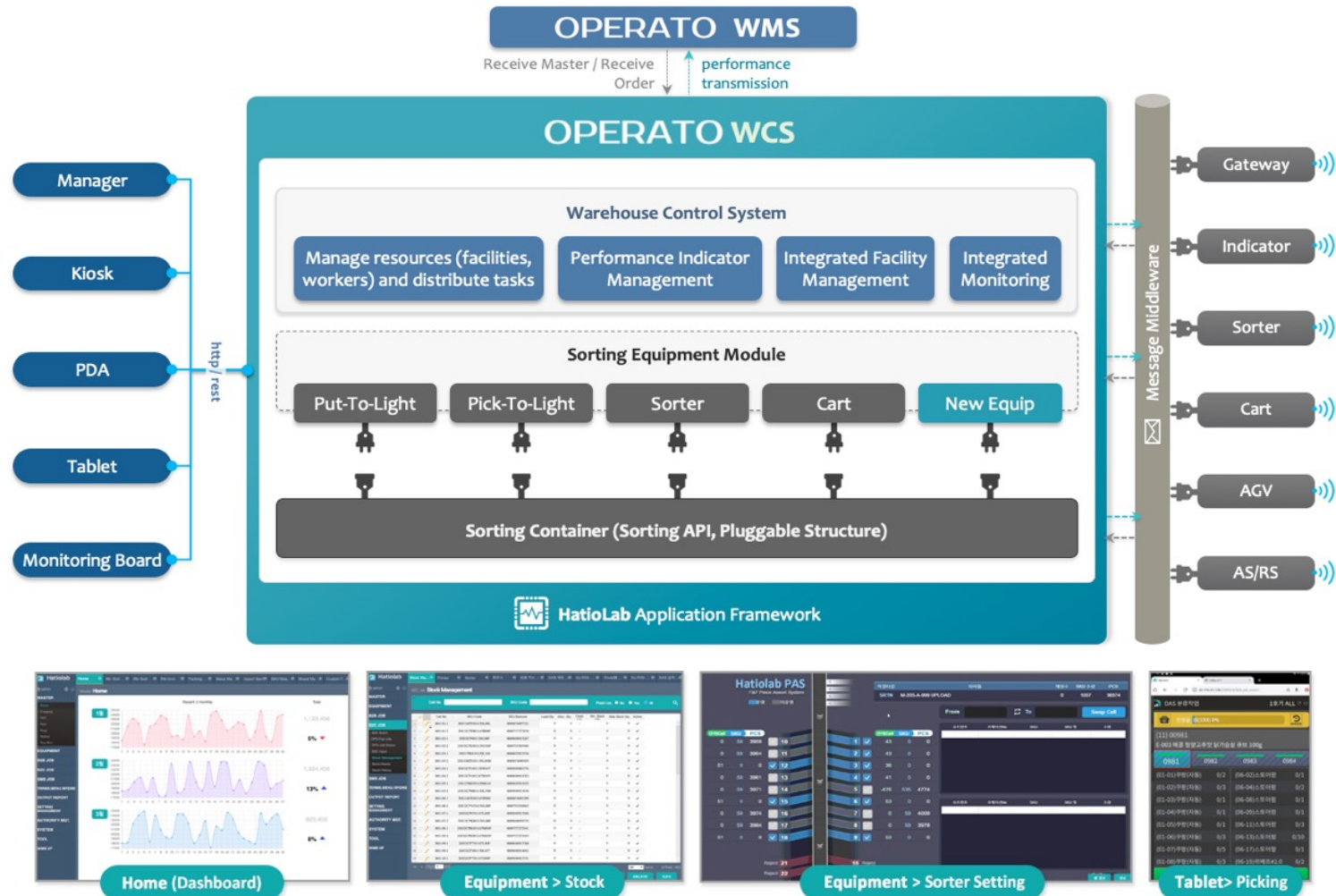
Operato ECS

Utilizing Equipment, IoT Sensors, and Robots
Collect and control data from various equipment, sensors, robots present in the field.

Support for Various Protocols
Utilize Modbus, Socket, MQTT, and other protocols for efficient data collection.

Code-Free System Implementation
Enable system implementation without coding using Scenario and UI Modeler.

Equipment Control

Cobot Control

AGV Control

Picking Carousel Eq.
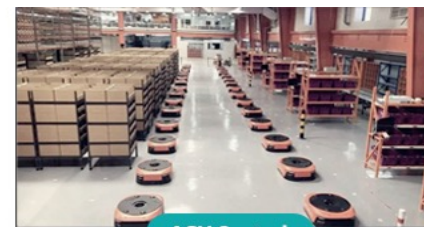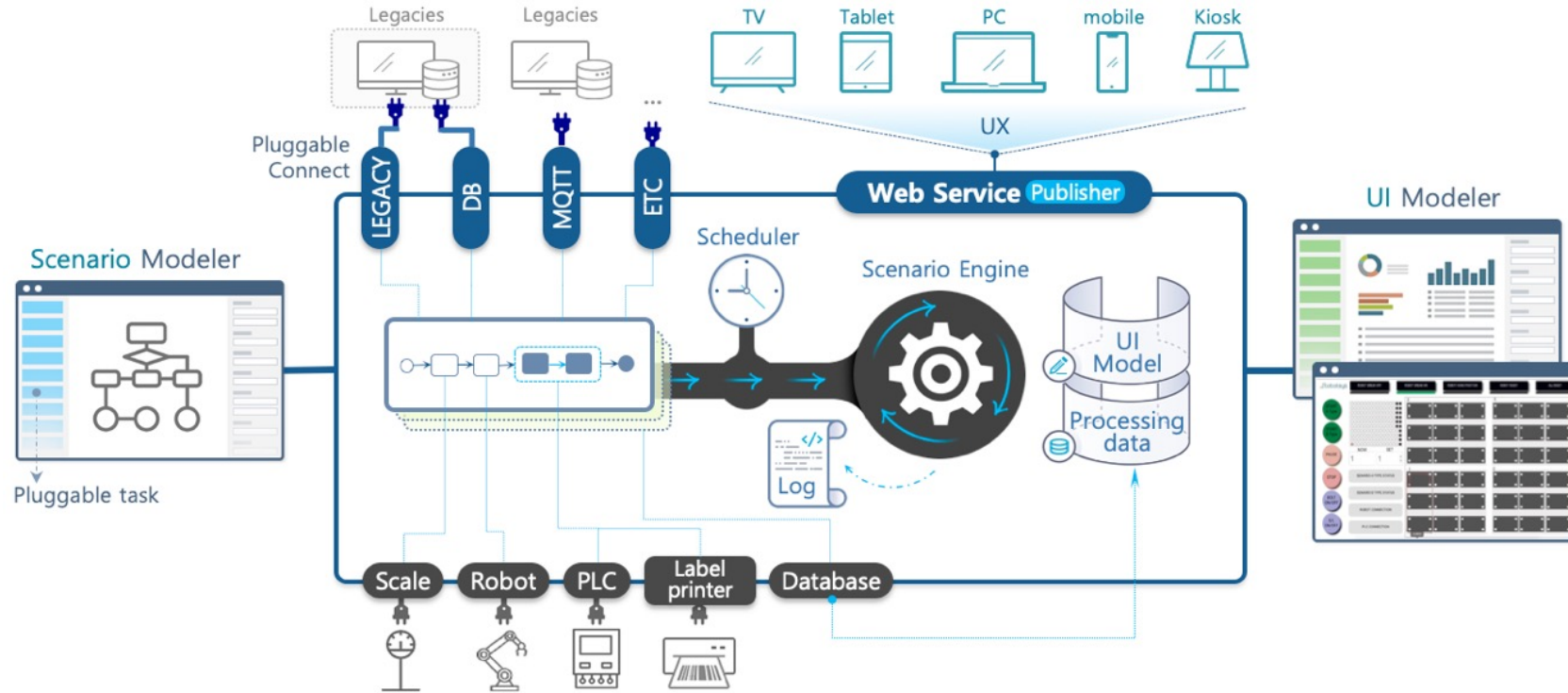
New Business : Operato Chef

Operato Chef is a smart solution enabling clear data management, real-time monitoring, and quality control automation, including Smart HACCP. From order to inventory, production planning, work instructions, shipping, and delivery.
A stepping stone for the advancement of small and medium-sized food and beverage manufacturers.

OPERATO Chef Function List

Master Data	Workflow	Production	HACCP
Order	Inventory	Equipment	Logistics
Integration	Monitoring	AI intelligence	Sales & Procurement

Hatiolab

Hatiolab customer

Hatiolab

Thank you For Your Attention

Heart of Supply Chain
Hatiolab