

Company Introduction



aim Systems

" Will be+ today and future! "

aim Systems

With Outstanding Expertise, Achieving Goals Together

With our excellent expertise and passion for smart manufacturing innovation, we will work together to realize customer value and achieve goals in this digital age.



We provide integrated IT solutions combined with proven automation solutions and professional engineering services for smart factories and smart airports in the manufacturing industry, supporting customers' operational efficiency improvements and digital transformation.



We build a foundation for integrated operations management and immediate service deployment, as well as rapid adoption of cutting-edge technologies including AI into business processes. We prepare for customer business model innovation and sustainable value creation.

aim Systems

Global Industrial Intelligence Solution
Provider



Head Office

AIM SYSTEMS, INC.

INCORPORATED

CEO

BUSINESS

1996

Jung Yeun Sun

Development and supply of
industrial automation solutions
Core technology support and key
personnel operation
RND technology strategies
provision

189

EMPLOYEES

ADDRESS

Bundang, Gyeonggido
(www.aim.co.kr)

Shanghai Branch

AIM SYSTEMS (SHANGHAI) CO., LTD.

INCORPORATED

2005 Year

CEO

Jung Yeun Sun

BUSINESS

Local system construction, technical
support/maintenance

Sales/marketing activities and local
customer management

EMPLOYEES

81

ADDRESS

Shanghai, China

aim Systems

aim Growth Story

30
years

1996 ~ 2004

Company Established: 1996

Successful local development of MES for the first time in Korea

Secured references from large companies

Domestic Manufacturing Automation/Local Development

- Plaque of Appreciation Award from Hynix Semiconductor(MES system implementation contribution)
- Ranked 25th in '2003 Korean Technology Fast 50'
- Ranked 67th in '2002 DTT Asia Pacific Technology Fast 500'
- Plaque of Appreciation Award from Samsung Electronics Semiconductor (MES system implementation contribution) entered China

2005 ~ 2009

Leading the domestic manufacturing automation market

Expansion of overseas markets

Domestic Leader/Overseas Expansion

- Selected as a partner of the HP eKorea
- Best Award in the Commercialization Sector of the Industrial Technology Award Selected by the Minister of Trade, Industry and Energy
- Plaque of Appreciation Award from Hynix Semiconductor(MES system implementation contribution)
- Plaque of Appreciation Award from Siltronic-Samsung Wafer(MES system-implementation contribution)
- 5 Million Dollar Export Tower Award

2010 ~ 2014

Leading exports to overseas markets

Expansion of smart factory domestic business

Diversification of industries such as chemicals, electronics, assembly, and solar energy

Overseas Leader/Domestic Business Diversification

- Construction Excellence Prize Award by China's CEC-PANDA(MES system implementation contribution)
- Excellent Supplier Award by China's CSOT(MES system implementation contribution)
- Trade Day Award by the Minister of Trade, Industry and Energy (Special Contributor - Export)
- Companion Company Award by the Gyeonggi Provincial Small and Medium Business Administration
- Cooperation Prize Award from Samsung Display for mutual growth partnership
- Grand Prize in Industrial Technology Commercialization by the Minister of Trade,

2015 ~ Present

Securing smart airport technology

Expansion of new industries such as smart logistics/secondary batteries

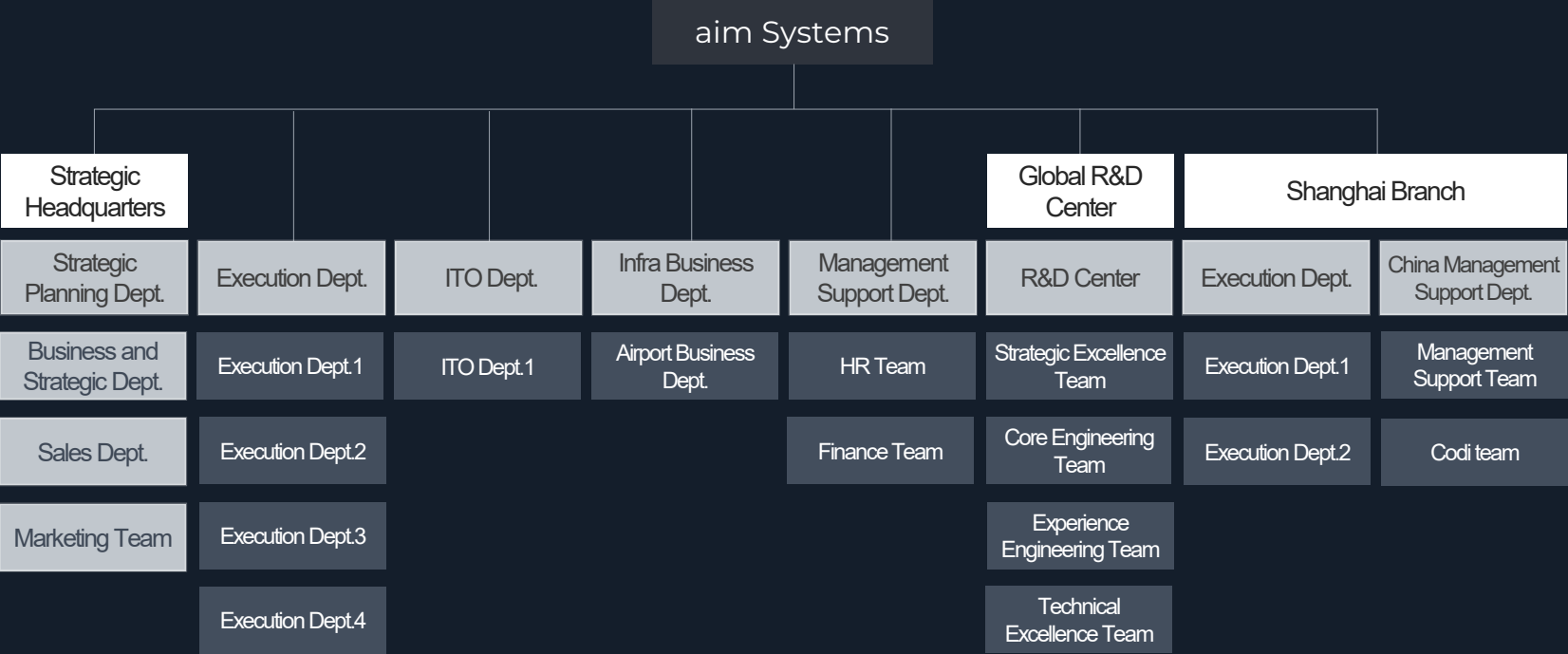
Sustainable Growth and New Businesses Expansion

- 30 Million Dollar Export Tower Award
- Youth-Friendly Small Giants Certification
- World-Class 300 Selection Certificate
- National Core Technology Company Selection Certificate by the Minister of Trade, Industry and Energy
- Digital Innovation Award at the 2024 19th Annual Digital Innovation Awards

Organization and Personnel

- We systematize product development, technical support, and business management through global R&D and management support organizations. Each business division realizes customer value with industry-specific expertise and proven technology accumulated over many years and carries out systematic and stable global business.

Collaborative Global Organization



Business Area

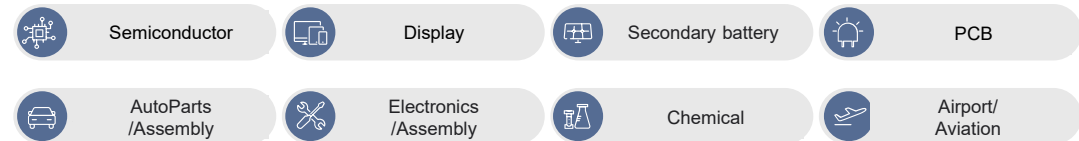
- aim Systems, the 1st generation leader in factory automation, provides automation solutions and engineering services based on advanced technology and expertise. We are leading the market and moving toward creating future value in industrial automation through continuous innovation and integration.



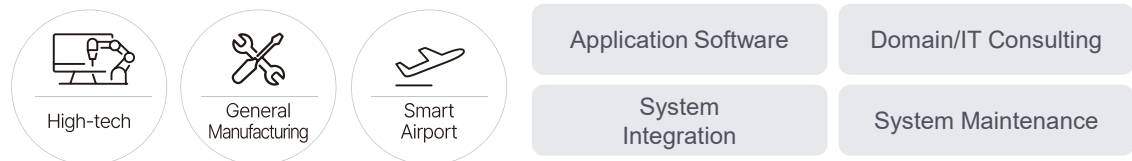
- We are securing market leadership based on proven technology and excellent market share in Asian markets centered on Korea and China



- We have professional technical capabilities to provide smart automation solutions from cutting-edge high-tech industries leading smart factories to various manufacturing fields.



- Through our strong in-house R&D organization, we continuously develop competitive, cost-effective and customized solutions.



Business Area

- Based on core technologies in the semiconductor and display fields, we have expanded our business areas to include smart factories, logistics, and airport infrastructure, and we are building a new ecosystem with a cloud-based manufacturing integration platform.



Smart Factory

A smart factory is an operational control system that improves productivity and quality by applying information and communication technology to the design and production process.



Semiconductor



Display



PCB



Secondary battery



Automotive, electronic parts/assembly



Chemical



Smart Logistics

A logistics control system that optimizes logistics movement time by managing return orders for logistics facilities



Factory Logistics Automation



Logistics Warehouse Automation

MES

WMS

MCS

WCS

OCS

ACS

SCS

CCS



Smart Airport

Integrated infrastructure system of passenger terminal including common use passenger processing system and self-bag drop/BRS

Self check-in

Self Back Drop

Security check

Other infrastructure



Manufacturing Integration Platform

A digital innovation system that integrates all IT from development to operation of integrated development operation support tools.

eziframe
(Libraries)

eziflow
(WF)



ezibizcon
(CIM Framework)

ezidevops
(CI/CD)

ezihub
(Centralization)



Smart Factory

We provide smart factory solutions that integrate production execution, facility automation, and logistics automation.

We implement the entire process from product planning to sales with ICT-based intelligent digital automation, and build an ecosystem that integrates development, building, and operation.

We realize a smart factory with high productivity and safety by optimizing automated operation processes with data-based prediction and analysis.



Semiconductor



Display



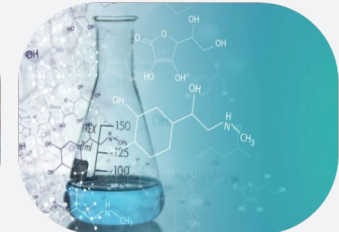
PCB



Secondary battery



Automotive, electronic parts/assembly



Chemical

- At a time when the automation solution depended heavily on imported goods, we succeeded in developing the semiconductor manufacturing operations automation solution for the first time in Korea. We have realized production efficiency and factory operation optimization by establishing various process-specific automation systems for major domestic and foreign semiconductor companies, and we have the unrivaled competitiveness to provide total solutions to semiconductor factories of various wafer sizes, memory/non-memory.

Implementation Details

Major Semiconductor Factories Implementation Details

200m FAB (Memory/Foundry)	300m FAB (Memory/Foundry)	EDS	OSAT
<ul style="list-style-type: none"> MANUAL/SEMI/FULL Auto Response Photo Inline Equipment Specialized Tracking Furnace Equipment Control Batch Lot Control Cassette/Reticle Management 	<ul style="list-style-type: none"> Multi Lot One Carrier Wafer Level Tracking & Traceability NPW (Non-Production Wafer) Large Data Processing N2 Purge Control 	<ul style="list-style-type: none"> PROBE Card Management Test Results Data Collection Wafer Map Inventory Management Facility Maintenance Management 	<ul style="list-style-type: none"> Multi Chip Management Material Management Process Golden Recipe Management Bin Sorting Wafer Map

Supply Solutions

MES	EAP	MCS	Monitoring/Engineering
<ul style="list-style-type: none"> Semiconductor Specialized Process Flexible Operation Scenario Based on Workflow Diverse Manufacturing Requirement Response Optimization by Manufacturing Type Flexible Application Support and Customization SEMI Standards-based Integration and Extension 	<ul style="list-style-type: none"> Various Communication Protocols Provision SECS/GEM, OPC, PLC UA Installation Scenarios by Equipment Type Single Equipment, Complex Equipment, In-line Equipment Real-time Monitoring and Control Real-time Large Data Processing 	<ul style="list-style-type: none"> Integrated Control of Various AMHS Equipment Field-based Modeling and Real-time Monitoring Intelligent Route Optimization and Real-time Route Optimization Production Bottleneck Prevention and Material Movement Efficiency Improvement 	<ul style="list-style-type: none"> RMS (Recipe Management System) SPC (Statistical Process Control) FDC (Fault Detection & Classification) FMB (Factory Monitoring Board) Report

Semiconductor

Smart Factory

Key Clients

MagnaChip	SK hynix			SHLMC	SK hynix ,Samsung
Korea			China		Korea
					
	M10	M11	C2	Fab1	All
S. LSI	DRAM, NAND	NAND	DRAM	S. LSI	DRAM/NAND/Foundry
130nm	60/40nm In-house(2016)	48nm~28nm In-house(2015)	90~60nm In-house(2016)	55/40nm	Under 20 nm
2004~	2004~2015	2008~2014	2006~2015	2011~	Current
80K	130K	140K	140K	35~40K	160K ↑

SM/Sl support
MC/MCS Project

- We are leading the global market by supplying full automation solutions optimized for various display manufacturing sites, such as TFT LCD, AM OLED, Module, and Micro OLED, to major domestic and overseas factories.
- We provide engineering solutions for manufacturing data analysis, focusing on manufacturing execution systems that integrate scheduling and deploying, equipment automation systems that provide standardized PLC I/F and in-line facilities, and logistics automation systems that enable intelligent return optimization and real-time monitoring.

Implementation Details

➤ Display Main Factories Implementation Details








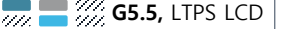









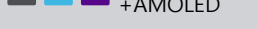
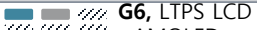
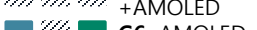
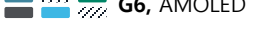




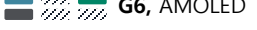

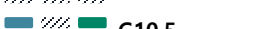










TFT LCD	Competitiveness		Module
<ul style="list-style-type: none">MANUAL/SEMI/FULL Auto ResponseArray/CF/CELL TrackingMMG & Advanced Glass SortingIndexer Control Operation StandardizationLot/Glass/Panel TrackingCassette/Mask Management	Solution	Verification and securing of multiple references in large-scale display FAB	<ul style="list-style-type: none">Module Line FULL Auto ResponsePanel Tray Map ManagementModule Process Specialized SamplingShipping Label ManagementOQC & RM Rework
		Total solutions required for factory operation and full automation functions provision	
		Possession of industry standard specifications and business field leader	
	Execution	Possession of optimal project methodology	
		Securing a number of experienced consultants and developers	
	Business	Execution organization for local support in Korea and China	
Organic cooperation with related partners for HW and System SW			
AM OLED	Value Chain	EquipmentProcess and inspection equipment and logistics equipment (MHS)	<ul style="list-style-type: none">Wafer / OLED / OSAT Complex ProcessWafer Level Tracking & TraceabilityMulti Lot/Multi Product ControlOLED Mask Management
		Material PartsCF, Material : PR, and others	

Display

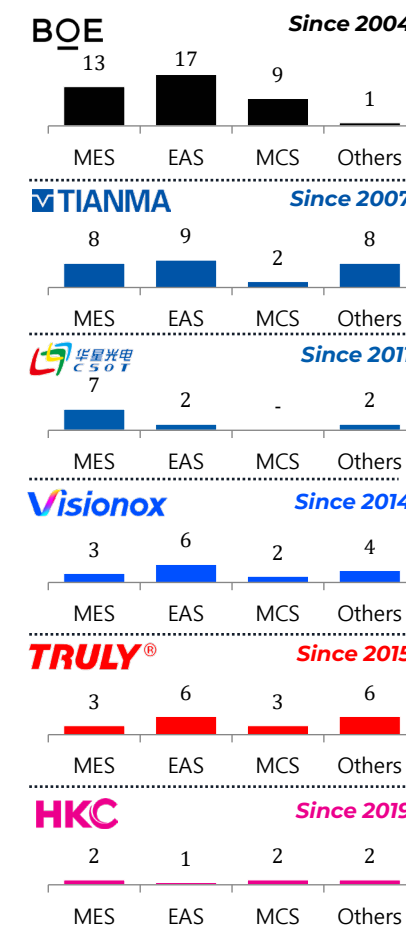
Key Clients

Building lasting trust relationships with key clients (focusing on the Chinese display market case)

MES EAP EAS MCS Report YMS

	BOE	TIANMA	华星光电 CSOT	Visionox	TRULY®	HKC
'04	 G5					
'07		 G4.5				
'09		 G4.5				
'10	 G6  G8	 G4.5				
'11			 G8.5			
'12		 G5.5, LTPS LCD				
'13	 G8					
'14	 G8		 G8.5	 G6, AMOLED		
'15	 G8	 G6, AMOLED  G6, LTPS LCD	 G6, LTPS LCD		 G4.5, TFT LCD  +AMOLED	
'16	 G6, LTPS LCD +AMOLED  G6, AMOLED  G11	 G6, AMOLED				
'17			 G11	 G6, AMOLED	 G4.5, TFT LCD	
'18	 G6, AMOLED  Micro-OLED  G10.5		 G6, AMOLED		 G4.5, TFT LCD	
'19	 G6, AMOLED		 G11	 G6, AMOLED		 G8.6
'20						 G8.6
'21		 G6, AMOLED	 G8.5			
'22			 G8.5			

Accumulated building performance



Secondary Battery/Material

Smart Factory

- Based on the automation solution technology proven in the semiconductor and display industries, we have expanded our business area to the secondary battery industry. From electrode, assembly, chemical, and module processes to material processes such as anode foil, we have successfully established production execution, facility and logistics automation, and engineering solutions to provide optimized secondary battery specialized solutions to customers.

Implementation Details

System main implementation details

Production Management

- Chemical materials, raw material compounding & mixing & slurry manufacturing, coating/rolling process
- Lamination/Welding/Packaging process of positive electrode & negative electrode & separator with semi-finished product/raw material BOM assembly concept

Recipe Management

- Real-time automatic calculation of compounding ingredients through COA such as IQC & PQC
- Real-time equipment input control by linking raw material input amount to raw material recipe
- Recipe management system operator input error prevention by product and facility

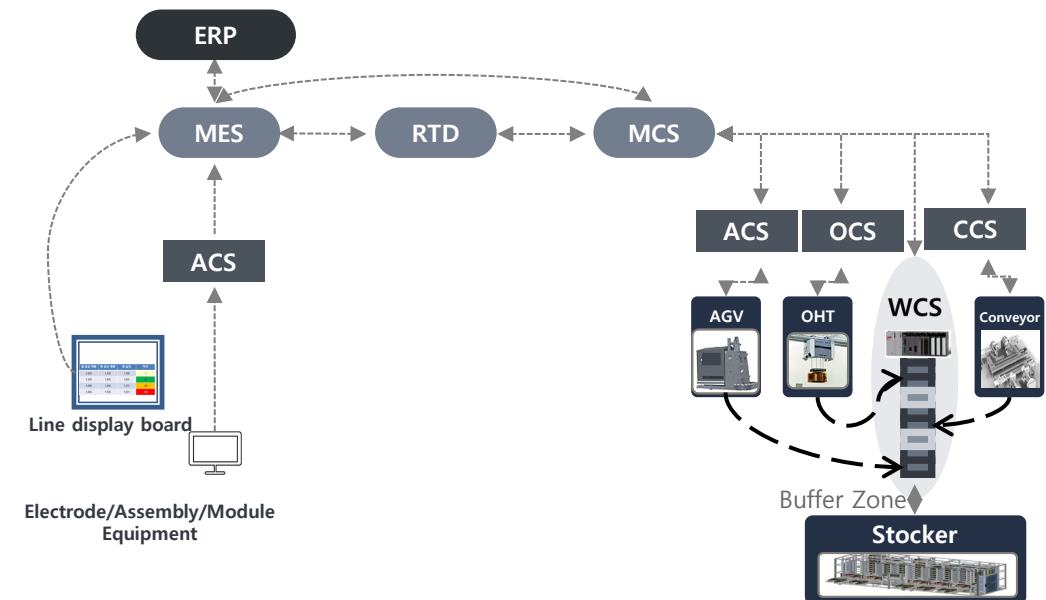
Material Management

- Improved traceability of raw materials & work in process management raw materials use
- LOT history tracking, quality improvement, and increased productivity by linking material input history

Equipment/Logistics Automation

- Production automation through PLC equipment I/F, automation of production performance, improvement of data reliability.
- Logistics automation through AMR/AGV I/F and optimal return route management

System configuration chart



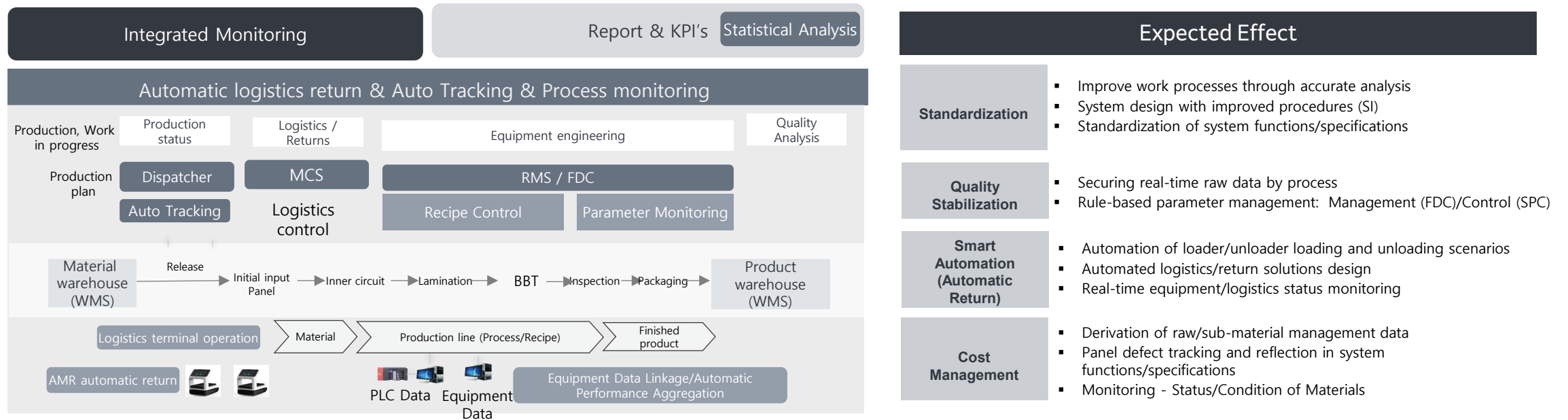
Implementation Performance

Supply Solutions

- By applying the integrated automation solution proven in the semiconductor and display industries and optimizing it to the characteristics of the PCB industry, we are realizing production efficiency. Especially, we support productivity improvement through the establishment of production plans that consider the diverse production environment of PCBs and the characteristics of each process, real-time equipment monitoring, and material history tracking management.

Implementation Details

Implementation Details



Implementation Performance

Supply Solutions

Automotive, Electronic Parts/Assembly

Smart Factory

- ▮ The entire process of complete vehicle assembly and automobile parts production can be managed in real time. Through integrated monitoring of production process, material control, product tracking, and equipment maintenance, quality risks are detected and resolved early, thereby implementing a high-quality production system.

Implementation Details

▮ Implementation Details

	Productivity Improvement	Quality Improvement	Cost Savings	Delivery Management
Key Details	<ul style="list-style-type: none"> • Process modeling required for various assemblies • Real-time production performance monitoring • Application of various latest devices optimized for field situations (Tablet, mobile PDA, kiosk) • AGV automatic return 	<ul style="list-style-type: none"> • BOM standard information revision management • LOT history tracking linked to material input history • Provides inventory management function for material receipt and payment (ERP linkage) 	<ul style="list-style-type: none"> • Provides process exception handling operation function • Provides RMA process, rework and repair process handling • Provides problem analysis function 	<ul style="list-style-type: none"> • Work plan creation and performance processing in connection with ERP • Provides production monitoring for delivery management • Provides planning/performance management dashboard
Expected Effect	<ul style="list-style-type: none"> • Increased production efficiency with highly scalable standard information modeling • Improved production management level by using advanced systems • Improved convenience and productivity on site • Improved DT level due to increased system reliability 	<ul style="list-style-type: none"> • Improved quality through prevention of input error • Reduced defect rate by improving production management level • Improved quality control level 	<ul style="list-style-type: none"> • Cost savings due to reduced rework • Increased fair quality due to repair process • Reduced inventory cost 	<ul style="list-style-type: none"> • Real-time performance history tracking compared to the plan • Production delivery date can be predicted and shortened

Implementation Performance

Supply Solutions



MES

EAS

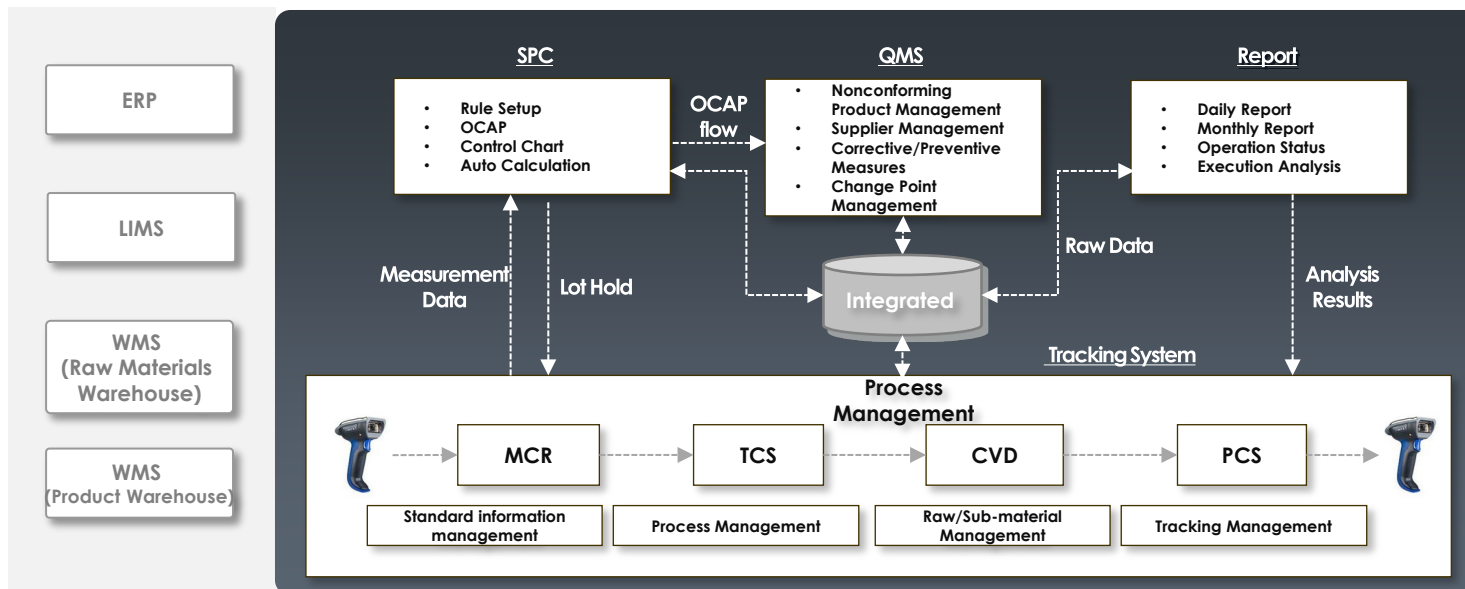
Report

SPC

- We collect and analyze data from all processes, from raw material imports to production and shipment. We provide solutions that maintain consistent quality regardless of the production location through real-time production status monitoring and quality risk detection.

Implementation Details

Implementation Details



Major Implementation Details

- Raw material input management
- Scale Performance I/F
- Raw material mixing equipment control
- LIMS linkage
- Real-time production information through equipment data linkage
- Continuous production flow work order management
- Automation of material receipt and payment, and consumption processing
- Automation of data-based quality control process
- Process data management using statistical techniques

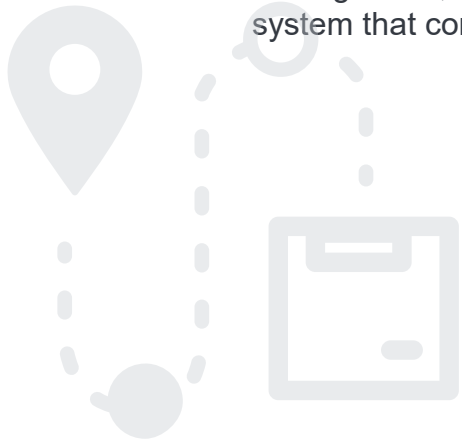
Implementation Performance

Supply Solutions

Smart Logistics

We provide logistics automation solutions for high-tech and general manufacturing industries.

We provide integrated management from automation of logistics equipment within the factory, such as Stocker, OHT, and AGV, to transportation, inventory, warehouse management, material management, and packaging. We implement a smart logistics system that combines AI, IoT, and robot technologies.



Factory Logistics
Automation



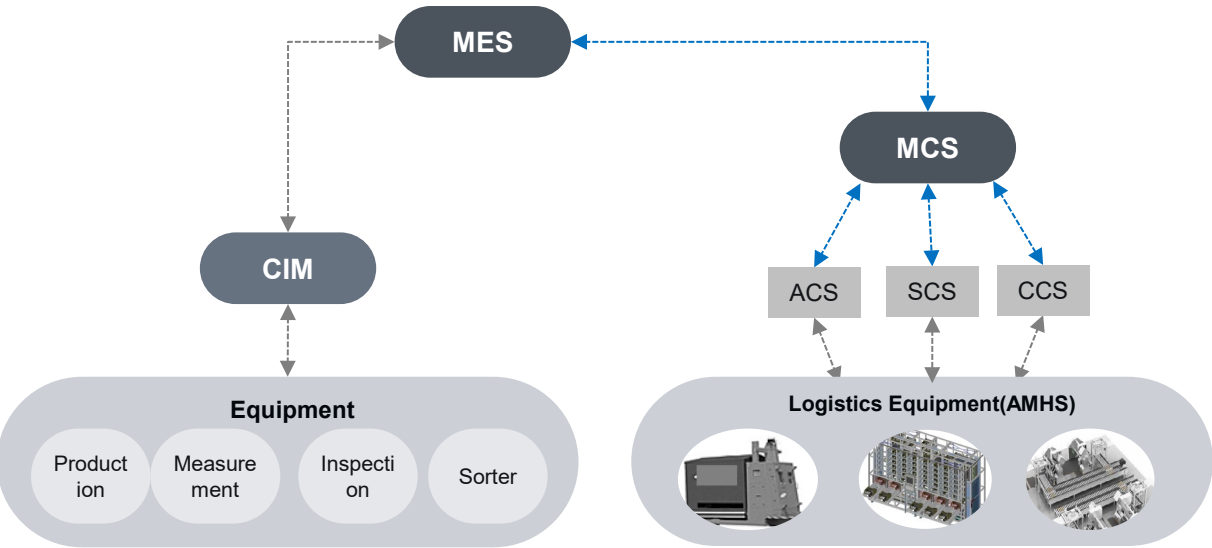
Warehouse
Automation

Factory Logistics Automation

- We provide logistics automation services to major high-tech factories in Korea and China. We implement intelligent logistics automation systems that provide optimal routes for material and product movement through digital modeling and real-time monitoring based on factory layout.

Implementation Details

Implementation Details



Core Strengths	
Increased Productivity	<ul style="list-style-type: none">▪ Shorten production cycle times by optimizing logistics flow▪ Increased overall production through increased equipment operation
Reduced Operation Costs	<ul style="list-style-type: none">▪ Reduced human dependence with automated logistics management▪ Optimized power consumption with energy-efficient operation
Improved Quality	<ul style="list-style-type: none">▪ Reduced production errors with accurate material supply▪ Rapid response to quality issues through real-time monitoring
Increased Flexibility and Scalability	<ul style="list-style-type: none">▪ Quick response to various production scenarios▪ Rapid adaptation to production line changes and expansions
System Integration and Data Consistency	<ul style="list-style-type: none">▪ Smooth integration with existing systems such as MES and ERP▪ Accurate reporting and analysis with enterprise data consistency

Implementation Performance



Supply Solutions



Warehouse Automation

Smart Logistics

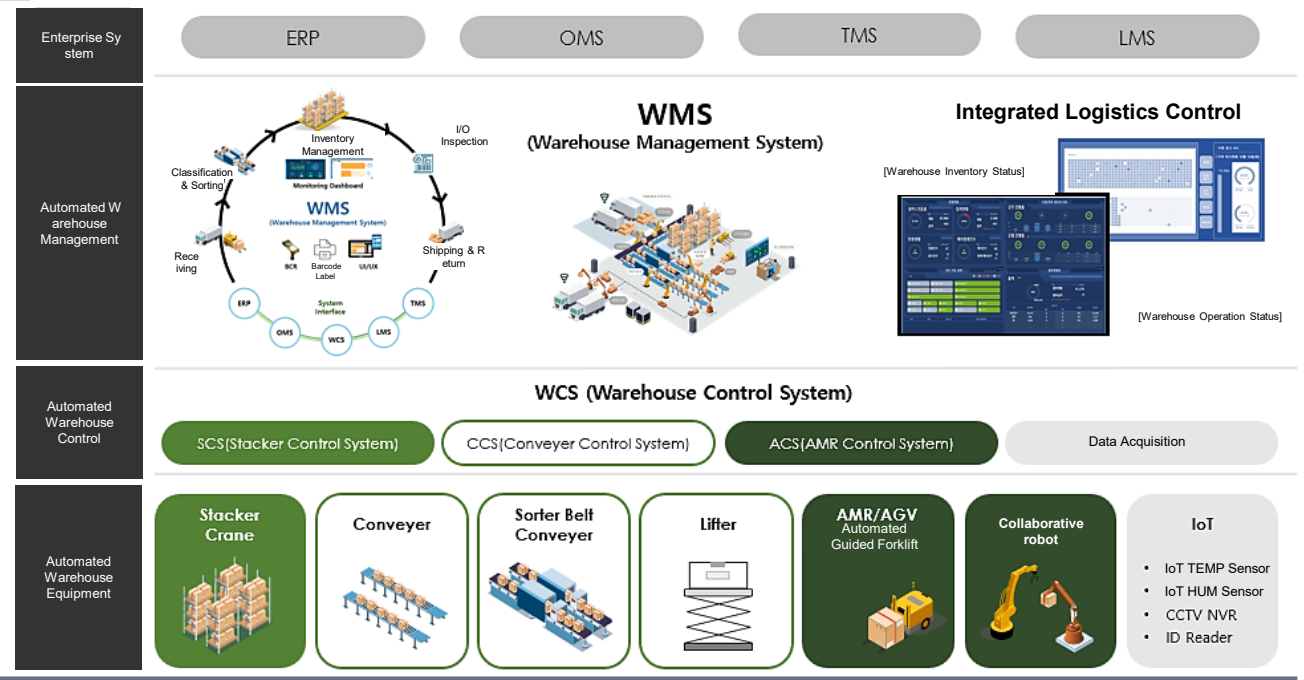
- Building smart warehouse automation is a key element in improving the efficiency of logistics centers, saving time and costs, and providing better customer service. Smart warehouse automation can be built through the supply of automatic logistics System equipment control and warehouse management systems.

Implementation Details

Implementation Details



Supply Solutions



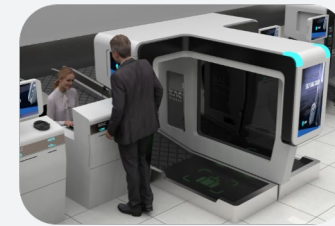
WMS WCS ACS CCS SCS

Smart Airport

Creating new value with smart airport automation solutions.

We have developed our own smart airport integrated automation solution and successfully implemented it in major domestic airports.

We are improving airport operation efficiency and passenger convenience through a common use passenger processing system, self check-in, and self bag drop system that comply with IATA international standards.



Next Generation Common Use Passenger Processing Systems



Common Use Self Check-in



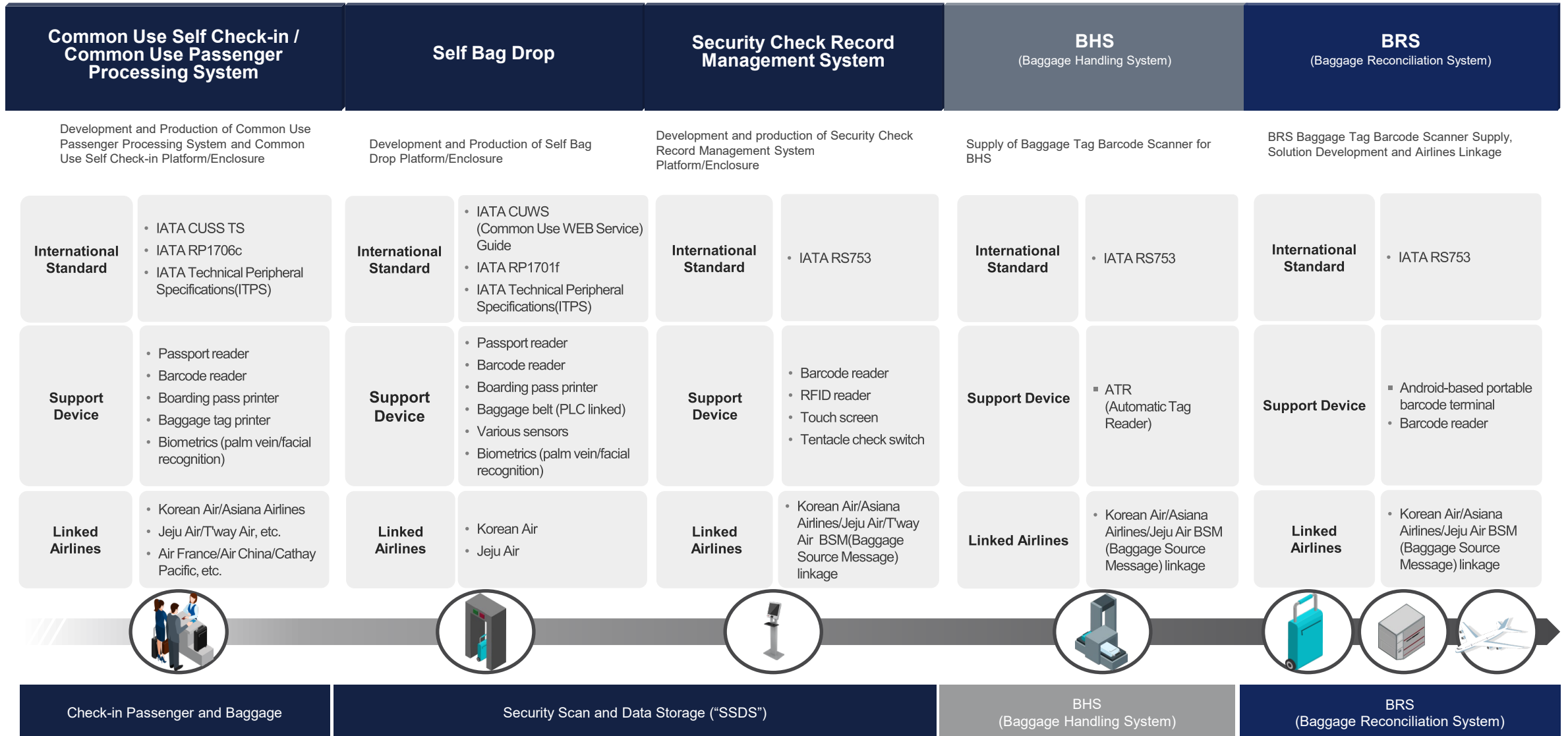
Self Bag Drop



BRS

Smart Airport

Smart Airport



Next Generation Common Use Passenger Processing System

Smart Airport

- The Next Generation Common Use Passenger Processing System' jointly developed with Korea Airports Corporation is a solution that integrates common use passenger processing and self-bag drop, and is a system that can be operated at global airports as it complies with IATA (International Air Transport Association) standards (CUPPS, CUSS, CUWS)

Details

- Compliant with IATA CUPPS Technical Specification 1.04.
- Compliant with IATA CUSS Technical Specification 2.2.0
- Compliant with IATA CUWS Technical Specification 2.0
- Same platform as the Self Check-in CUSS platform applied
- Efficient system operation possible by integrating the manned check-in system and the self bag drop system into one system
- Baggage shape recognition function (tub, luggage, etc.)
- Intrusion detection using LIDAR sensors
- Cutting-edge technologies such as RFID and biometrics support
- Support for localization of various devices is possible
- Ability to respond quickly to airline requirements



Linked Airlines



Common Use Self Check-in

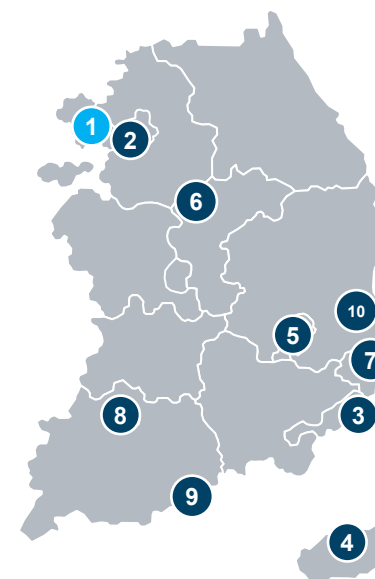
Smart Airport

- We have successfully developed and commercialized the first Common Use Self Check-in System in Korea and are currently operating it stably at major domestic airports such as Incheon Airport and Gimpo Airport. It is a proven solution that can be operated at global airports in compliance with IATA's CUSS international standard.

Implementation Details

- Complies with IATA CUSS Technical Specification
- Reduced introduction costs compared to ARINC/SITA self check-in
- Possible to build a wireless network using the LTE network, making installation and mobile operation easy
- Providing customized self check-in initial screen design
- New device authentication for self check-in and rapid technical support for airlines
- Proven reliability at 9 airports operated by Korea Airports Corporation (2016 to present)

● Korean airport locations



Airport	Number of installations	
	Domestic flights	International flights
1 Incheon Airport	0	250 units
2 Gimpo Airport	67	31
3 Gimhae Airport	30	47
4 Jeju Airport	73	8
5 Daegu Airport	10	18
6 Cheongju Airport	14	4
7 Ulsan Airport	8	0
8 Gwangju Airport	8	0
9 Yeosu Airport	8	0
10 Pohang Airport	2	0



Self Bag Drop

Smart Airport

- We have successfully developed the platform software and enclosure of the Self Bag Drop System and installed it at Incheon Airport (currently 68 units in operation), and are continuing to expand it. We are also promoting the replacement of aging systems at global airports with proven solutions that comply with IATA's CUSS/CUWS international standards.

Details

- Compliant with IATA CUSS Technical Specification 2.2.0
- Compliant with IATA CUWS Technical Specification 2.0
- Same platform as self check-in CUSS platform applied
- Ensuring self check-in level performance/quality and stability
- Baggage shape recognition function (tub, luggage, etc.)
- Intrusion detection using LIDAR sensors
- Cutting-edge technologies such as RFID and biometrics supported
- Development linking with external systems support
- Support for localization of various devices is possible
- Improved design and convenience
- Ability to respond quickly to airline requirements



Linked Airlines



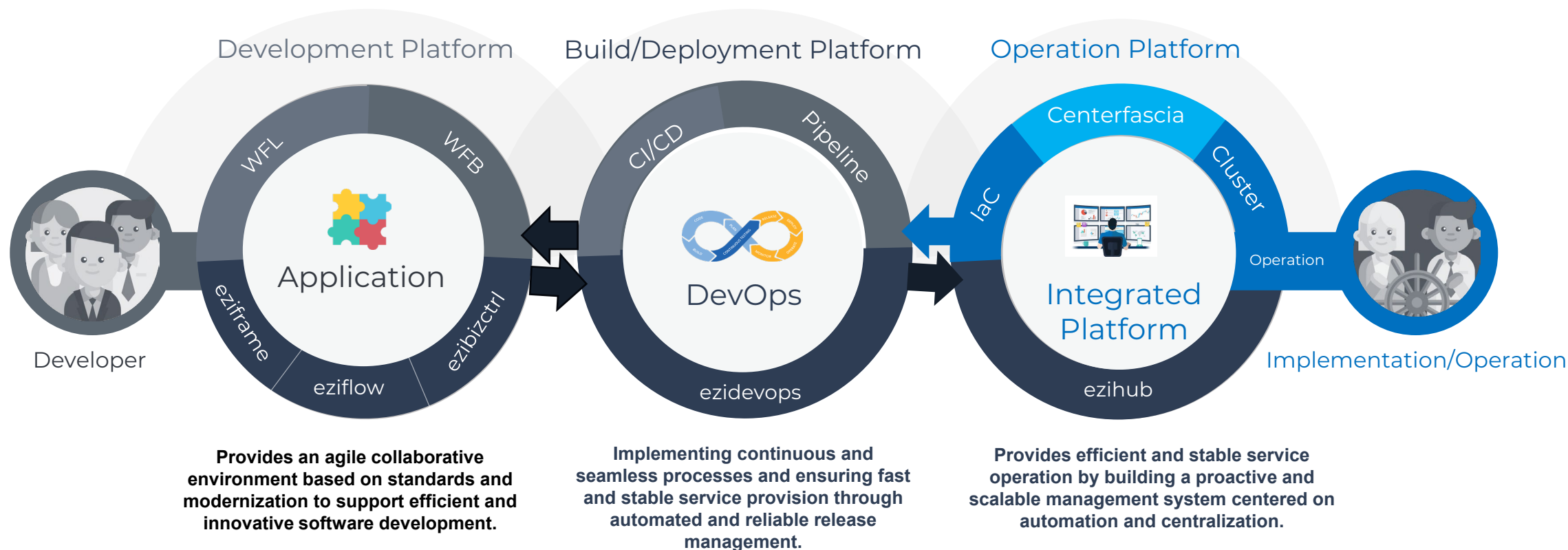
Enterprise Manufacturing Platform

An enterprise platform that integrates and manages all phases of a manufacturing solution from development to operation.

We implement digital innovation with a Manufacturing Integration Platform that covers all manufacturing areas from development to operation.

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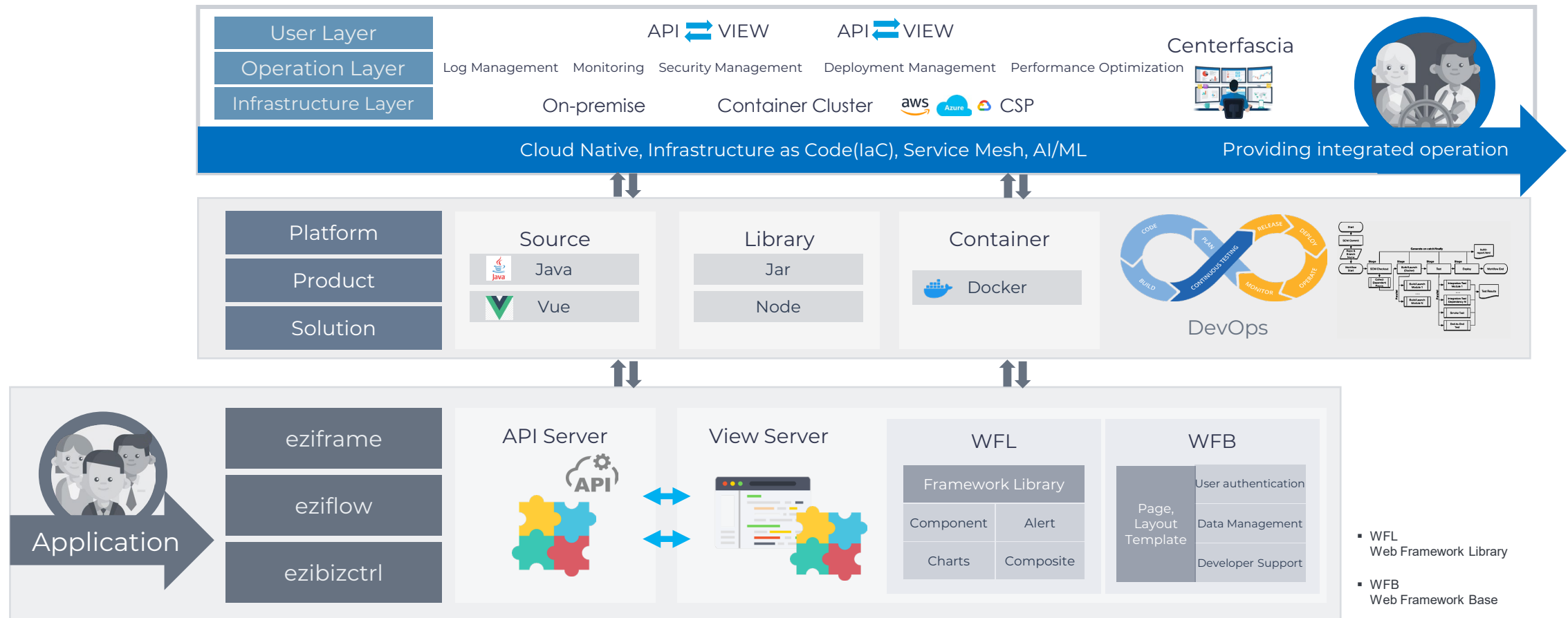
- Automate your build, test, and deployment processes with aim's eziéco to increase your development productivity. Use the CI/CD (Continuous Integration/Continuous Deployment) environment quickly and conveniently, and analyze performance with continuous monitoring services to ensure stable operation.



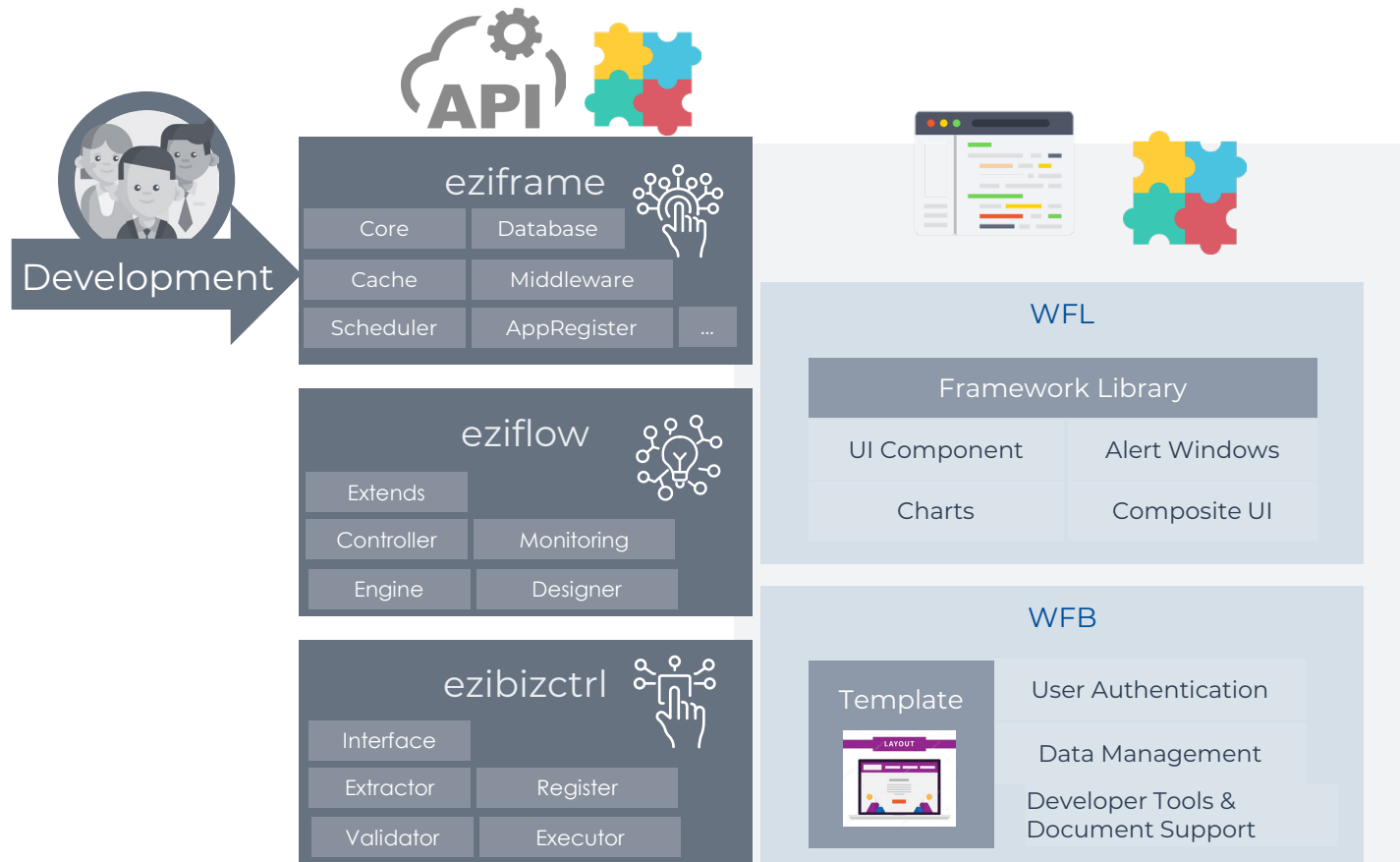
Cloud Native / Microservices / Automation / Container / AI,ML / IaC (Infrastructure as Code) / IAM (Identify and Access management)

Tech Heritage / Modernization / DevOps / Continuous Everything / Agile / Customer-Centric

- aim develops automation solutions in a standardized environment within the ezienco ecosystem that covers the entire life cycle from development to operation. This provides customers with an integrated operating environment along with the solution, enabling them to manage the system consistently and efficiently throughout the entire process.



- Harmonizing tradition and innovation: A modern, standard-based, agile collaborative development platform



Key Features

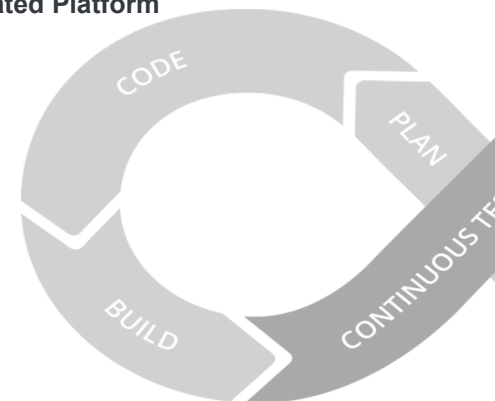
Efficient Development Environment Configuration

It provides various libraries and templates based on accumulated know-how required for front-end and back-end application development, allowing quick and efficient project configuration.

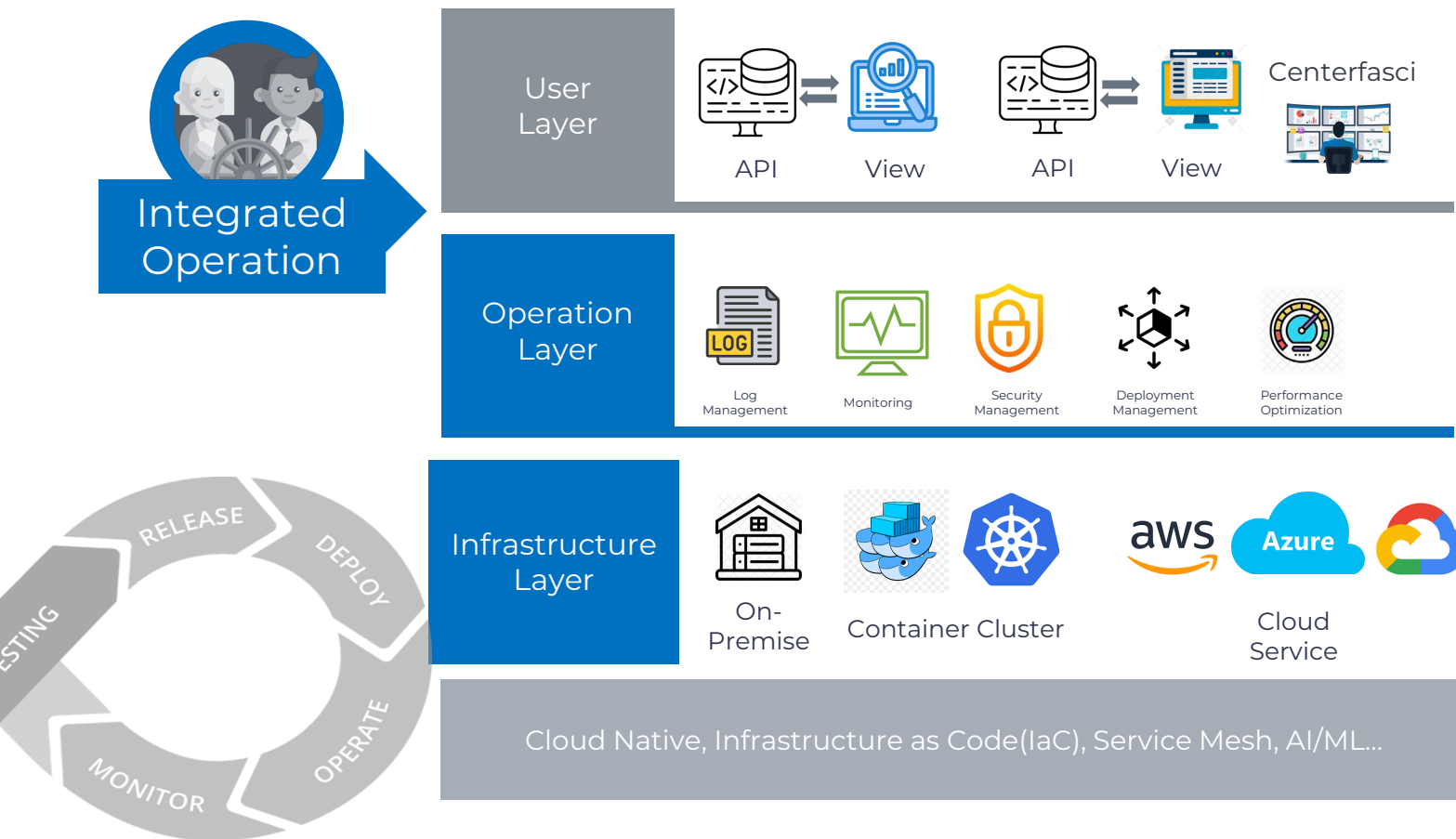
In addition, it provides a mechanism for flexibly building business logic and a flow engine that can quickly respond to changes in user application requirements, maximizing business flexibility.

CI/CD Tool Integration Linkage

Instant Connection to the Integrated Platform



► Synergy of Automation and Centralization: A Preemptive, Scalable, and Stable Operation Platform



Key Features

Integrated Platform

It is designed to be deployed and operated immediately on various operational infrastructures. It provides standardized operational functions to ensure consistent user experience and operational level.

It minimizes context switching and optimizes workflow by providing security management of integrated authentication and consistent interface through a single approach.

It also improves the speed of problem detection and response through centralization of system status and Notifications and supports continuous operational advancement through data integration and correlation analysis functions.

CI/CD Tool Integration Linkage

IaC, IAM, Centerfascia, API Gateway

- IaC
Infrastructure as Code
- IAM
Identify and Access Management

Solution Introduction

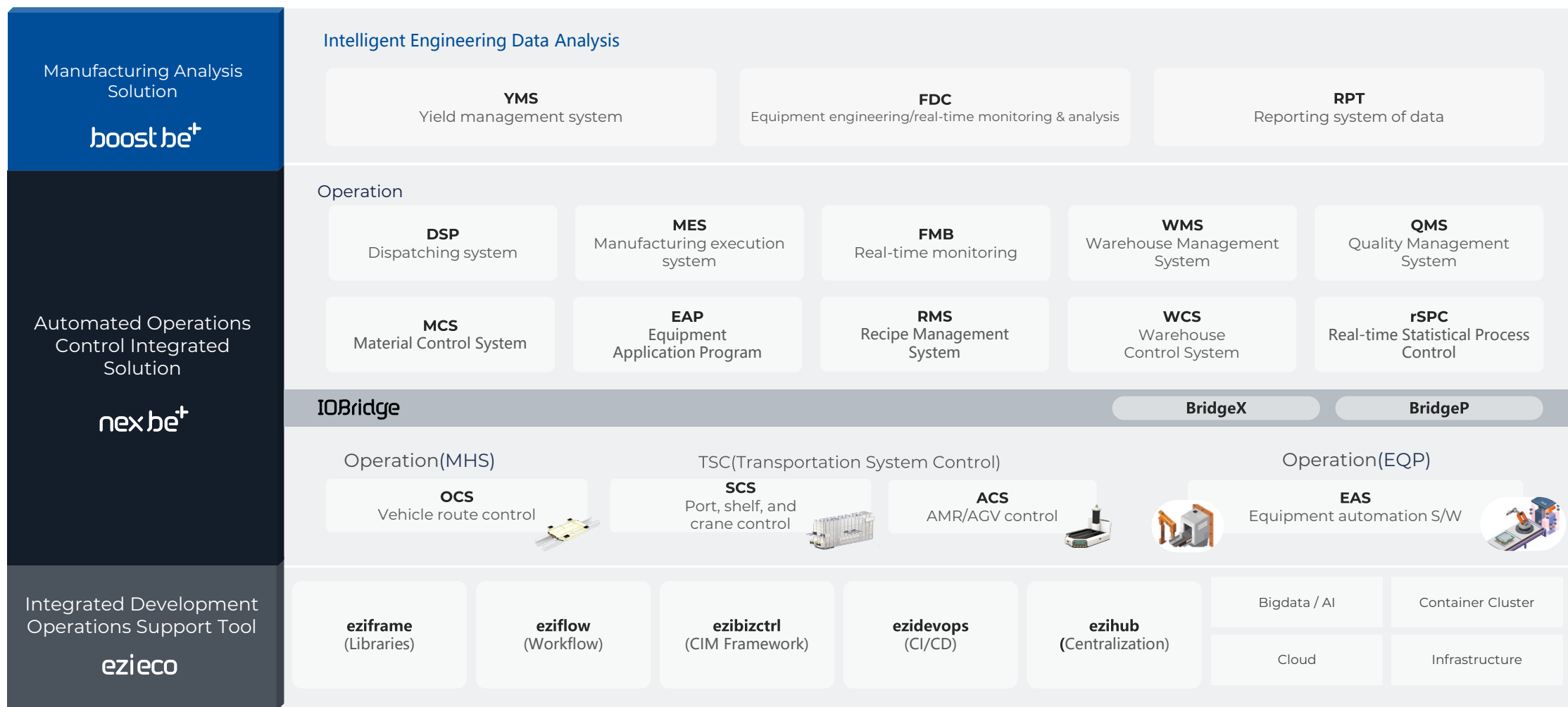
In 2024, we provide a next-generation smart factory integrated solution converged with digital technologies.

Designed with a flexible architecture, our solutions support continuous technological innovation and business growth.



Smart Factory Solution Configuration Chart

Solution Introduction



Smart Factory Solution Configuration Chart

Solution Introduction

- Our company enhances customer competitiveness through automation and digitalization with a smart factory integrated platform. nexbe+ and boostbe+ provide integrated management from production to facility management. They support optimized operations through advanced technology-based manufacturing operation analysis and intelligent facility connection. IOBridge and ezi platform enable rapid and efficient solution construction, leading customers' manufacturing innovation.

Data Utilization Optimization Operations Control Automation

Integrated Operations Platform

nex be⁺

넥스비

Automated Operations Control Integrated Solution

We provide convenient and stable services from installation to operation through a smart factory platform with various package-type solutions for building optimized factory automation.

By utilizing equipment-to-equipment data, we provide integrated operations management from production operations to facility maintenance and monitoring / immediate processing services enabling customers to utilize resources more effectively and maximize operational efficiency.

boost be⁺

부스트비

Manufacturing Analysis Solution

It's an evolved factory that produces customized products. The integration of IoT, AI, and big data into this process to automate and digitalize the process is what differentiates it from existing factory automation.

boostbe+ has objects related to manufacturing, such as procurement, logistics, and consumers. Each of these objects is given intelligence and connected to the Internet of Things (IoT) to operate as a factory that autonomously connects, collects, and analyzes data.

IOBridge

아이오브릿지

Equipment Automation Core Solution

The IOBridge series is a proven equipment automation and integration solution with over 20 years of experience, providing improved user APIs by seamlessly handling communication connections and sending and receiving messages

BridgeX is a SECS communication driver that ensures reliable equipment connectivity with modernized user experience and performance. BridgeP standardizes various PLC communications to enable flexible equipment control and integration.

ezi eco

이지에코

Integrated Development and Operations Support Tools for Fast and Flexible Development and Operation

ezi helps developers and engineers perform projects efficiently through various automation modules.

It can easily implement data management, web development, business process processing, DevOps support, and integrated operations. It realizes innovation by quickly building, deploying, and operating solutions. Maximize the efficiency of your development and operating environments with ezi.

Smart Factory MES Introduction

Solution Introduction

- nexbe+ MES (Manufacturing Execution System) manages and monitors the manufacturing process in real time and automates and optimizes various activities at the production site.

Based on the technology and experience accumulated in high-tech industries such as semiconductors and FPD, we provide a system to efficiently manage production resources in various automation industries.

MES Key Roles and Features

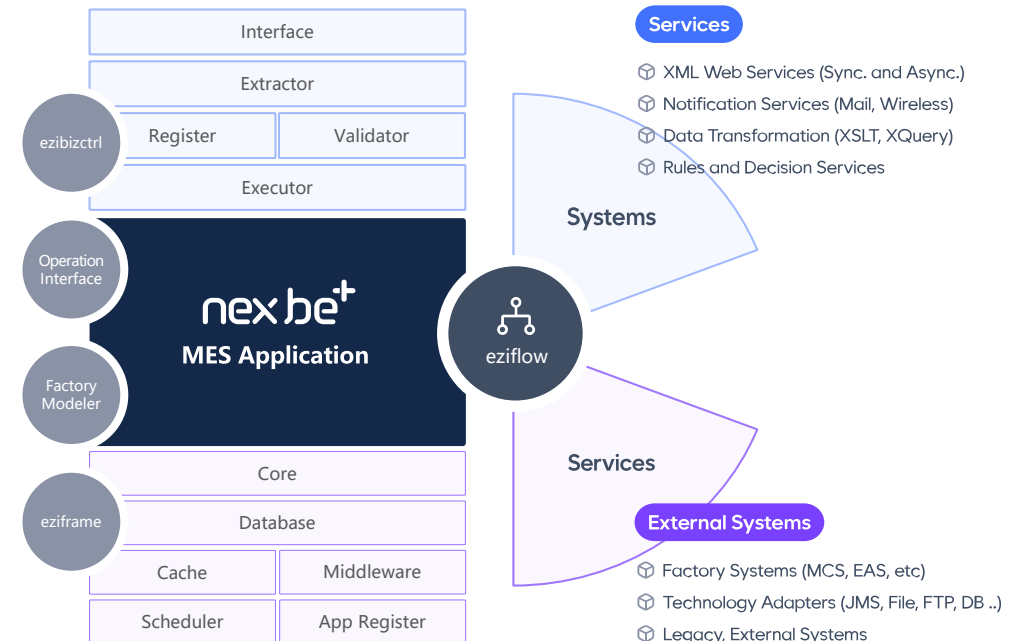
- **Production Plan Execution**
It executes and manages production plans received from upper-level systems (such as ERP) on site and manage the creation and priorities of work orders.
- **Production Management**
It manages production performance through work start/end processing via the worker screen, production/defect quantity performance data management, lot tracking management, etc.
- **Real-time Monitoring**
It collects data generated in the production process in real time. Monitors equipment operation status, production volume, and detects various on-site problems.
- **Quality Control**
It collect quality data generated during the product manufacturing process, analyze it to detect quality problems early, and support improvement. It also manages quality history by process.
- **Inventory Management**
It tracks inventory status in real time, from raw materials to finished products, preventing stock shortages or excesses.

Provides MES functions considering user convenience

Statistical-based quality management industry standards

A proven system that maximizes efficiency

System Configuration Chart



Smart Factory EAS Introduction

Solution Introduction

- nexbe+ EAS is a software for integrated equipment automation and operation, providing comprehensive functions required for equipment automation. It helps users operate equipment effectively and intelligently.

30 years of experience in building and operating factory automation systems!
Experience factory operation optimization services provided by field experts

EAS Key Roles and Features

- ▶ **CIM Implemented Architecture**
PLC communication network support/HSMS/Serial communication support
- ▶ **Common Framework + Equipment/Factory Specific Services**
- ▶ Service-oriented architecture/component-based development (CBD)/providing features for customization/extensible architecture
- ▶ **Fast Data Processing**
It collects quality data generated during the product manufacturing process and analyze it to help detect and improve quality problems early.
- ▶ **Tool-based Development - Workflow**
Business Logic Flow Modeling/Flexibility (Real-time patch application and execution)/Visualization (Intuitive visualization of business logic flow)
- ▶ **ATT (Automated Testing Tool)**
It helps reduce costs and improve test quality through tools that automate the overall equipment testing process.

Industry Automation
Specialized Company

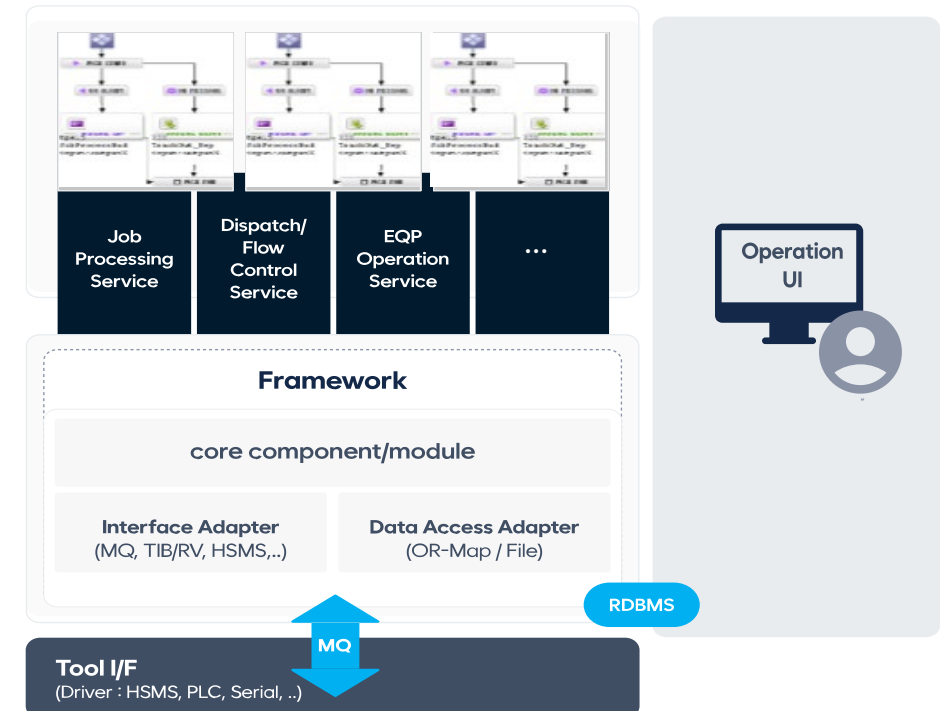
Equipment Automation
Operation

- Inline/Online Job Processing
- Equipment CIM Operation

Engineering to improve
equipment productivity

- Fast data collection
- Return tact time

Common Framework + Equipment/Factory Specific Services



Smart Factory MCS Introduction

Solution Introduction

- nexbe+ MCS is the core control software of AMHS (Automated Material Handling System). It is an online control system that optimizes the movement of materials and products in the manufacturing process through digital modeling and real-time monitoring based on the factory logistics layout.

Based on our extensive experience in implementing and operating semiconductor and FPD factories,
we provide evolving solutions through continuous linkage with various AMHS systems.

MCS Key Roles and Features

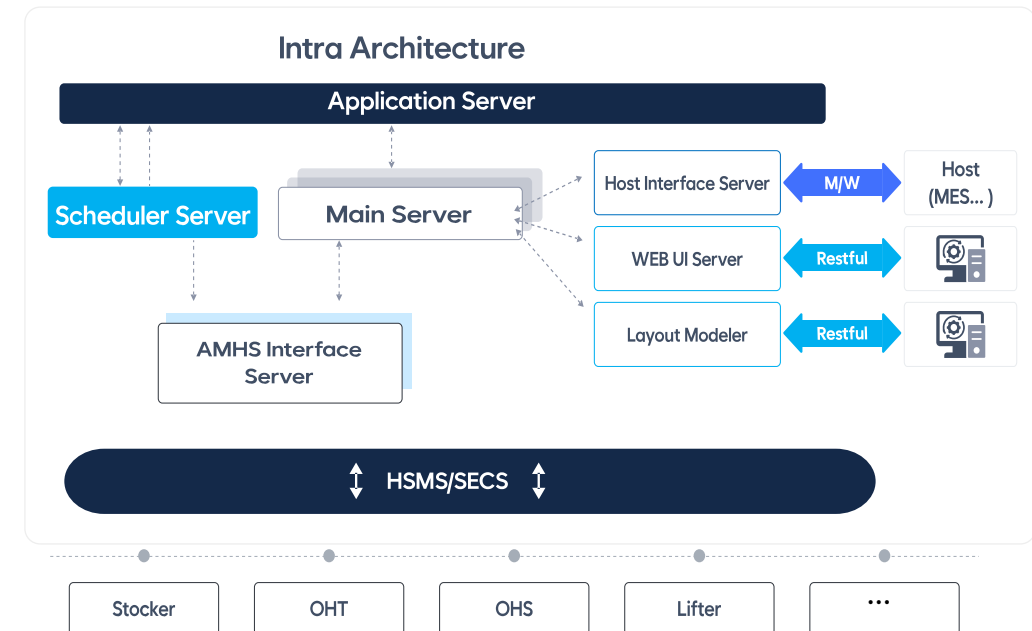
- ▶ **Digital Modeling and Monitoring**
Accurate digital twin implementation based on the factory's logistics layout/Optimization and readjustment of return/Support for simulation and optimization of logistics return
- ▶ **Flexible Online Control and System Integration**
Online control through mediation between logistics H/W and upper-level systems/Providing a highly flexible and scalable control structure/Smooth integration with upper-level systems such as MES and ERP
- ▶ **Advanced Optimization and Decision-making Support**
Application of transportation route optimization and bottleneck prevention algorithms/Operational data collection and advanced analysis functions/Support for real-time user decision making
- ▶ **User Management Service**
Manage user groups based on user class and level/Restrict menu use by setting account permissions

Standardized functional
reliability and
customized solutions

Industry-specific experience
Continuous development for
reliability and wide application

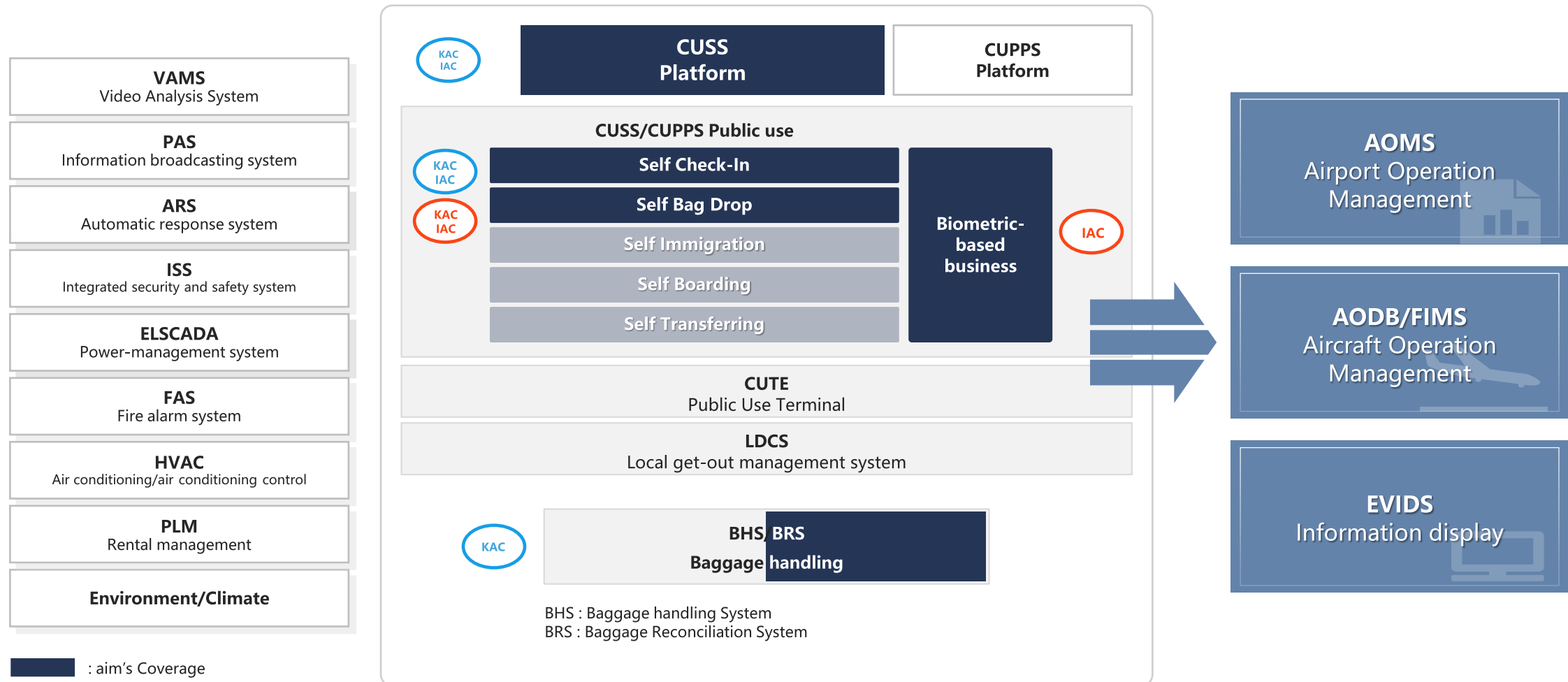
User-driven system
management and
optimization

SW Configuration Chart



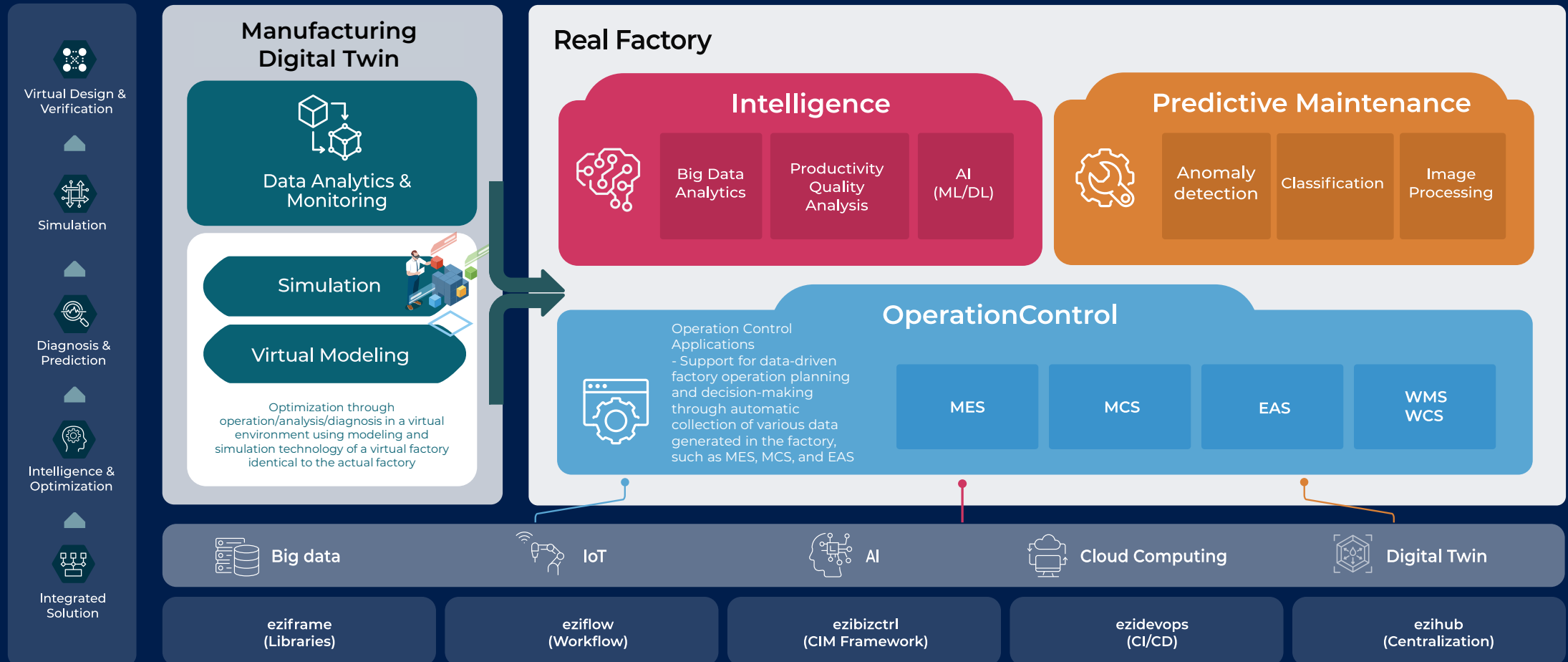
Smart Airport Solution Configuration Chart

Solution Introduction



aim Future (1/2) Future Intelligent Solutions

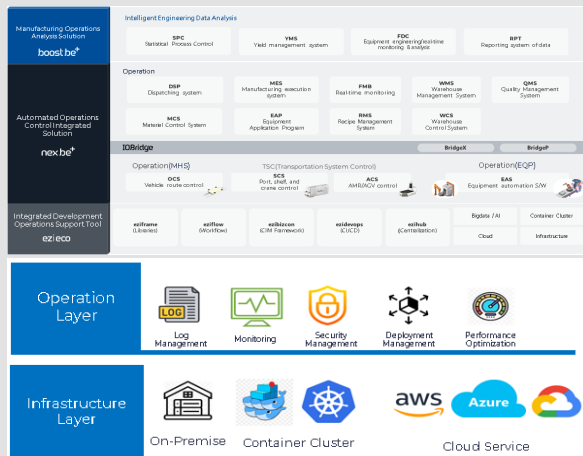
Providing factory automation solutions for verification, intelligence, and optimization through Cyber Physical Systems based on Digital Twin technology



aim Future (2/2)

Smart Manufacturing Innovation – Beyond Automation, Toward Autonomy

Autonomy stages



One-Stop Solutions

- Automation & operational Optimization
- Modernization & advancement of manufacturing solutions
- Standardized & Scalable Manufacturing Framework

Providing modernized integrated solutions for digital transformation

Core values

- Production and operation optimization through an integrated system
- Establishing a standardized production process and data-driven operational system
- Flexible deployment tailored to various manufacturing environments
- Establishing a foundation for quality improvement and operational cost reduction



One-Touch Solutions

- Intelligent automation solution
- Configuration-based modular system
- Cloud-based Smart Manufacturing
- AI-Driven Data Analysis

AI-based automation for operational optimization

- Production schedule optimization and AI-based quality control
- Flexible production operation
- AI-based equipment anomaly detection and maintenance application
- Operational optimization through system performance analysis and optimization



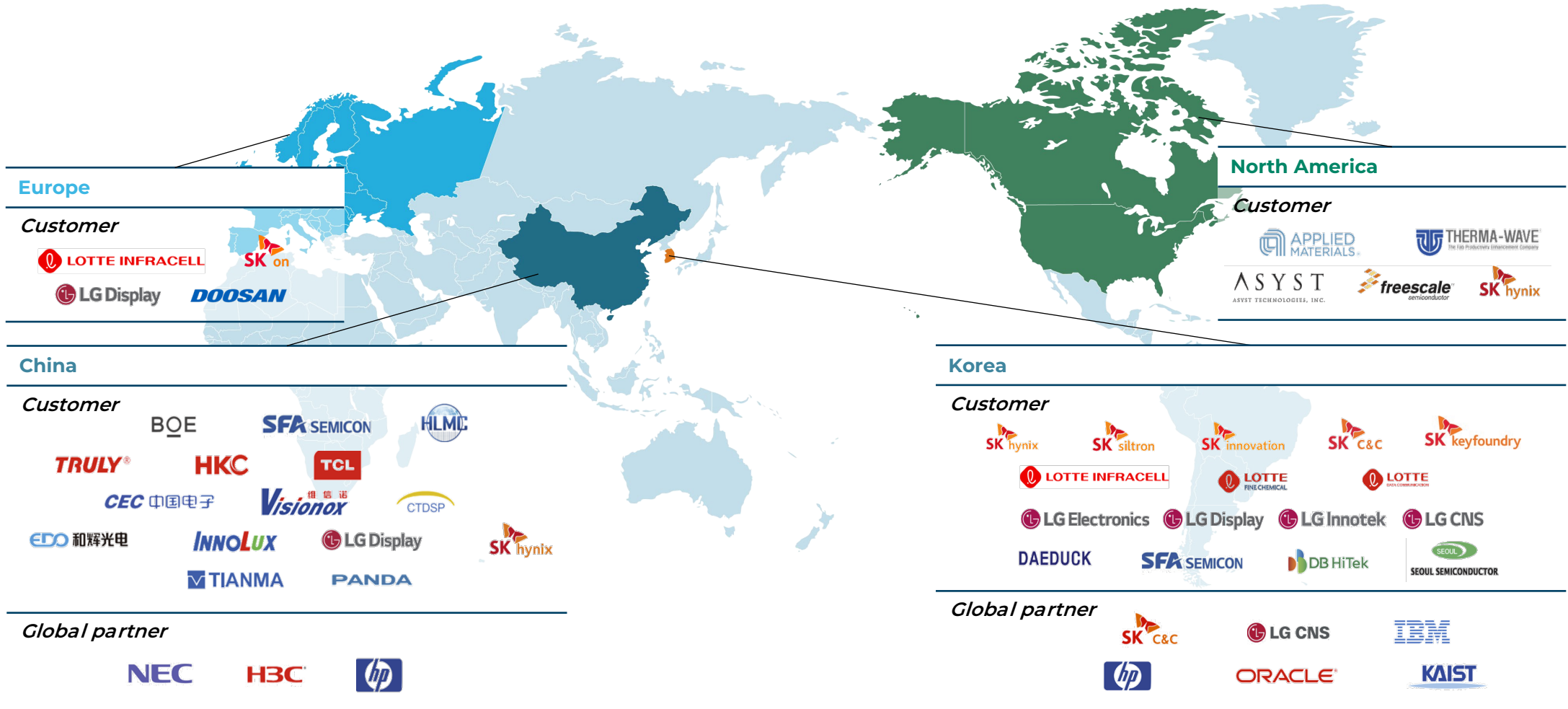
Zero-touch Solutions

- Autonomous automation
- AI-Driven Real-time decision making system
- Hyperconnected Smart Manufacturing with Digital twin.
- Self-Learning AI & Adaptive Optimization

AI-driven real-time optimization and decision-making operational environment

- Automatically establishing and executing the optimal production plan
- Utilizing Digital Twin and AI-based process simulation
- Establishing an autonomous operation system
- Light-out Factory

Clients & Partners



aim Systems

Will be⁺
today & future



aim Systems



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- Business Proposal / Partnership
- Product Demonstration/Trial Performance
- Technical Consultation/Inquiry
- Others



Smile! Plant