

Company Introduction

2023

GLOBAL NO.1 INDUSTRIAL INTELLIGENCE SOLUTION PROVIDER





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01 Company Update

01 Company Overview

- ▶ We are the driving force of the Fourth Industrial Revolution through automation solutions for the semiconductor / display sector and general small and medium sized manufacturing.

aim Systems, Inc.

Head Office

Incorporated 1996

CEO Soohan Bae

Business Software Solutions for Industrial Automation

Employees 205

Address Bundang, Korea (www.aim.co.kr)

aim Systems

(SHANGHAI) CO., LTD.

Shanghai branch

Incorporated 2005

Business Tech-support, Sales support & UMS of aim products

Employees 79

Address Shanghai, China



01 Company History

▣ We lead the industry with 20 years of technology and experience.

Establishment

1996

- 2004
Received a plaque of appreciation from SK hynix
- 2003
Selected in '2003 Korean Technology Fast 50' as 25th
- 2002
Selected in '2002 DTT Asia Pacific Technology Fast 500' as 67th
- 2002
Received a plaque of appreciation from Samsung

Initiation

2005

- 2008
Received a plaque of appreciation from SK hynix
- 2008
Received a plaque of appreciation from Siltronic-Samsung Wafer
- 2008
Selected HP eKorea Partner
- 2005
Received '5 million Dollars Export Award'

Total Solution Provider

2010

- 2014
Received Industrial Technology Award from Ministry of Trade, Industry & Energy
- 2014
Received a plaque of appreciation from CEC-PANDA
- 2014
Received CSOT Excellent Supplier Award

Global Leader

2015

- 2017
Received '30 million Dollars Export Award'
- 2016
Selected World Class 300 Company from Ministry of SMEs and Startups
- 2016
Selected National Core Technology Company from Ministry of Trade, Industry & Energy

01 Business History

- Since its establishment in 1996, it has localized the factory automation market, which had been dependent on foreign products, and secured the world's best semiconductor/display market such as Samsung, LG, and SK hynix. We are taking a leap forward as an automation company.

1996

Korean market Localization

- 2004
BOE-OT LCD
5th generation
- 2004
hynix semi.
Semiconductor 300mm
- 2003
LG Display LCD
6th generation

2005

Overseas market expansion

- 2010
SHLMC (Shanghai)
SEMI-CIM
- 2008
LG Display Selected
as Global MES Standard
- 2008
hynix semi. 300mm
- 2005
Samsung SDI AMOLED

2010

Chinese market expansion

- 2016
BOE B7, B10
MES/EAS/MCS
- 2016
WHTM MES Project
- 2015
Truly MES/EAS/
MCS/EDA/EDB
- 2014
BOE B8 LCD G8.5 MES
& EAS (BC)
- 2013
Seoul Semiconductor
MES
- 2011
CSOT t1 (Shenzhen)
LCD G8.5 MES & EAS (BC)

2015

Competitive advantage

- 2021
Tianma TM18
MES/EAS/MCS
- 2021
LOTTE ALUMINIUM
IT System(MES)
- 2021
Cotem
MES/EAS
- 2020
BOE B12
MES/EAS/MCS
- 2020
HKC H5 MES
- 2020
SK on EAS
- 2019
Visionox V3
MES/EAS/MCS
- 2016
BOE B9
MES/EAS/MCS

01 Company Vision

▣ Global No.1 Industrial Intelligence Solution Provider

» We will grow into a global smart factory leader by developing intelligent solutions that apply New IT (Big data, IoT, AI Engine, 5G, etc.) technologies.

Key Technology

- ✓ Domain Knowledge
- ✓ Top industrial automation experts
- ✓ Specialized solution for semiconductor / display manufacturing factory and equipment automation
- ✓ Various Embedded Systems for factory and equipment automation
- ✓ New IT Technology

Global Major Customer

- ✓ Market references for high-tech industry in Korea (Samsung, SK hynix, LG, etc.)
- ✓ Provide solutions and services to major Chinese manufacturers in China (BOE, Tianma, CSOT, CEC-PANDA, GVO, Truly, etc.)
- ✓ Many Taiwan, US, and Japanese customers

Market competitiveness

- ✓ Technology advantage in competition with global company(IBM, AMAT, Siemens, etc.)
- ✓ No. 1 market share in display factory automation solution in China
- ✓ Rich high-tech industrial market reference
- ✓ Market competitiveness in entering new markets by diversifying solutions

01 Organization

- ▶ AIM System consists of Korea Business Headquarter, China Business Headquarter, Global Management Support Officer, Global R&D Center, and excellent technical personnel with various project experience participate to carry out stable and successful business.



01 Business Model

- Through the combination of automation software solution and engineering service, Whole Automation is implemented in semiconductor/display factories and general manufacturing industry sites, and total services related to airport automation solutions and embedded software are provided.



Product	Consulting	SI	SM
<ul style="list-style-type: none">✓ Application Software✓ Development Tools & System S/W✓ Computer H/W (Distribution)✓ Mechanic H/W : OEM	<ul style="list-style-type: none">✓ Domain Consulting✓ IT Infra Consulting	<ul style="list-style-type: none">✓ Engineering & Custom Service✓ System Integration Service	<ul style="list-style-type: none">✓ System Operation and Maintenance Service

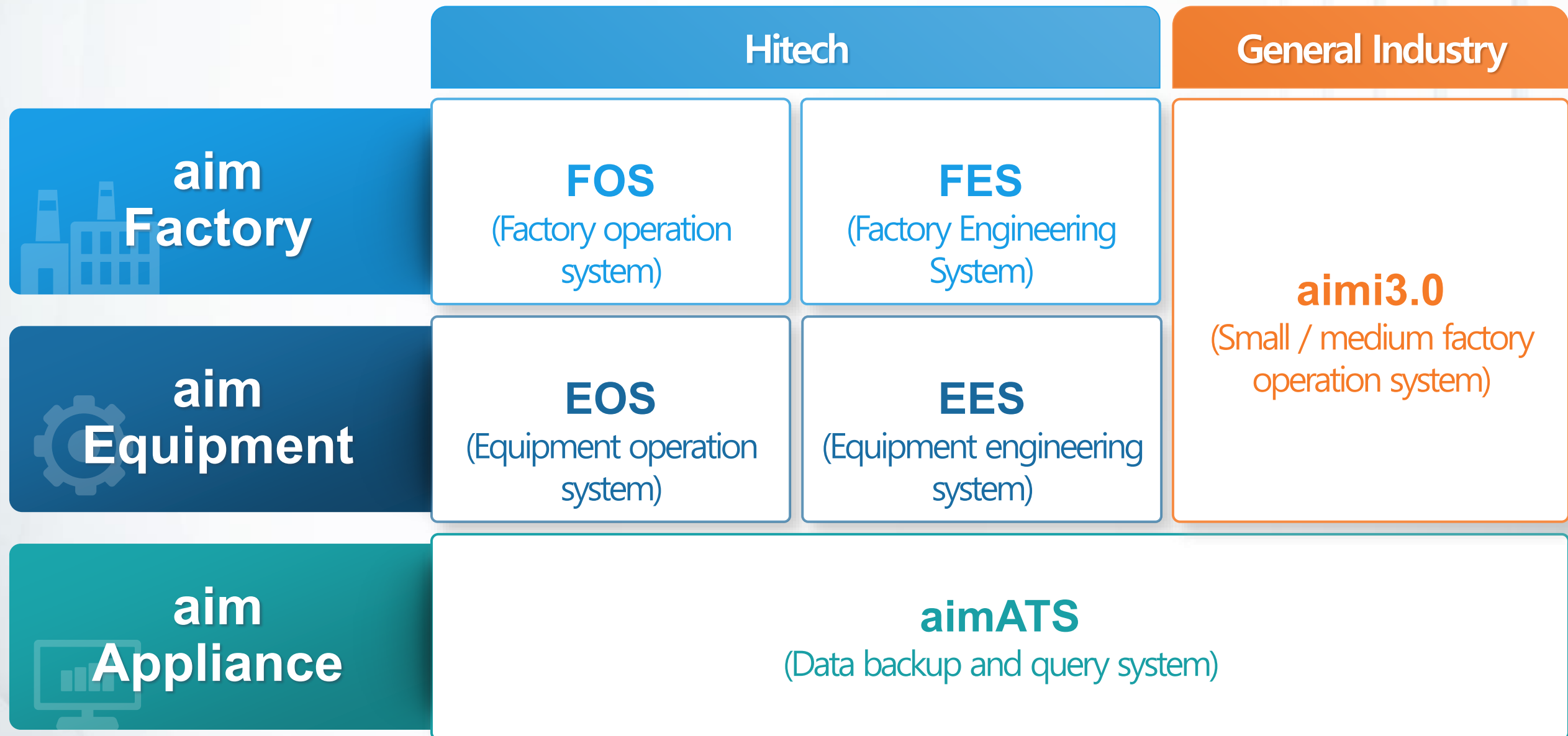


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02 Solution

02 Overview

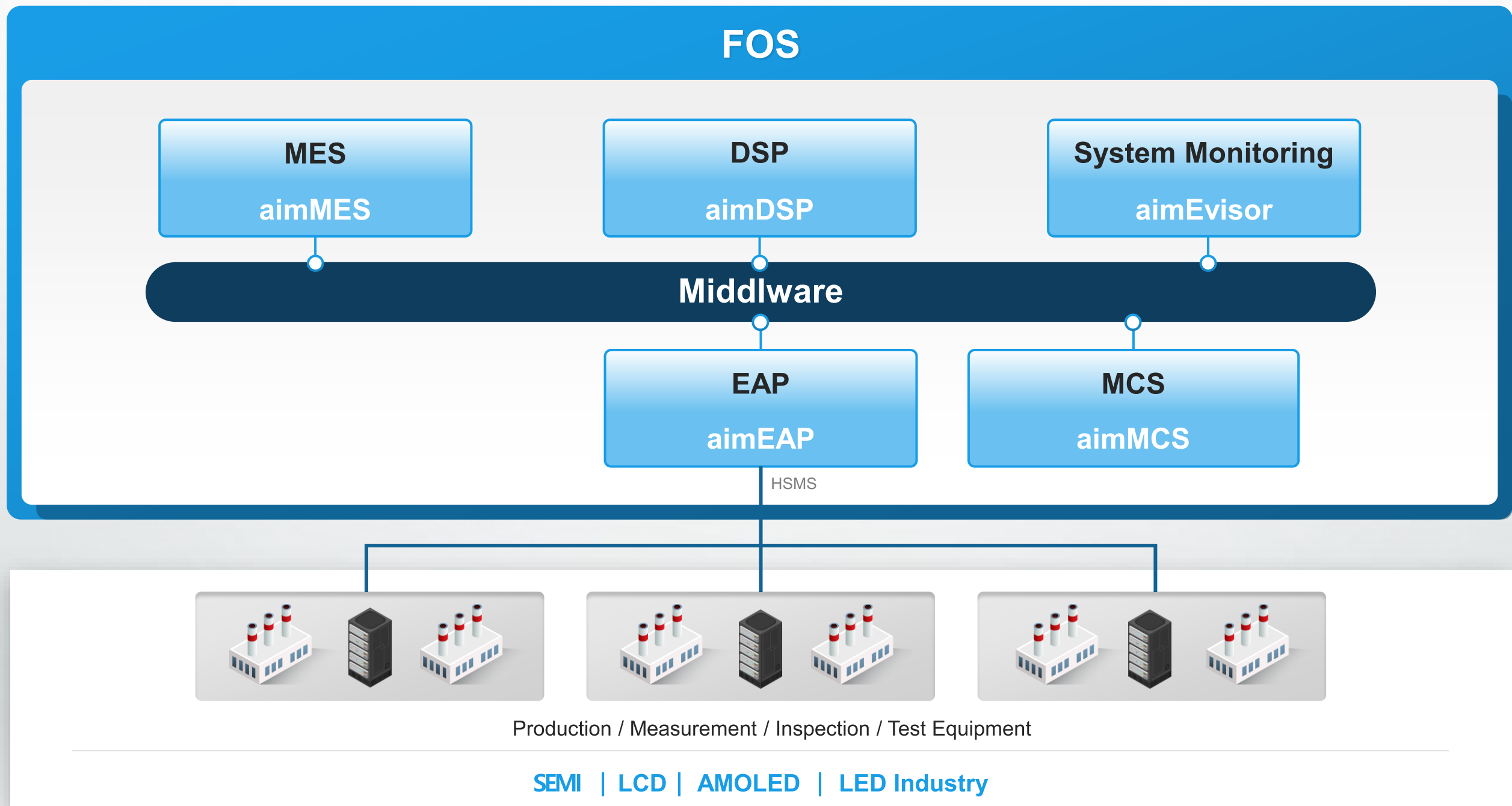
aimSolution Architecture



02 High-tech - aimFactory

▣ FOS(Factory Operating System)

» Factory operation system for integrated management of all activities such as schedule/work order/quality control/performance management

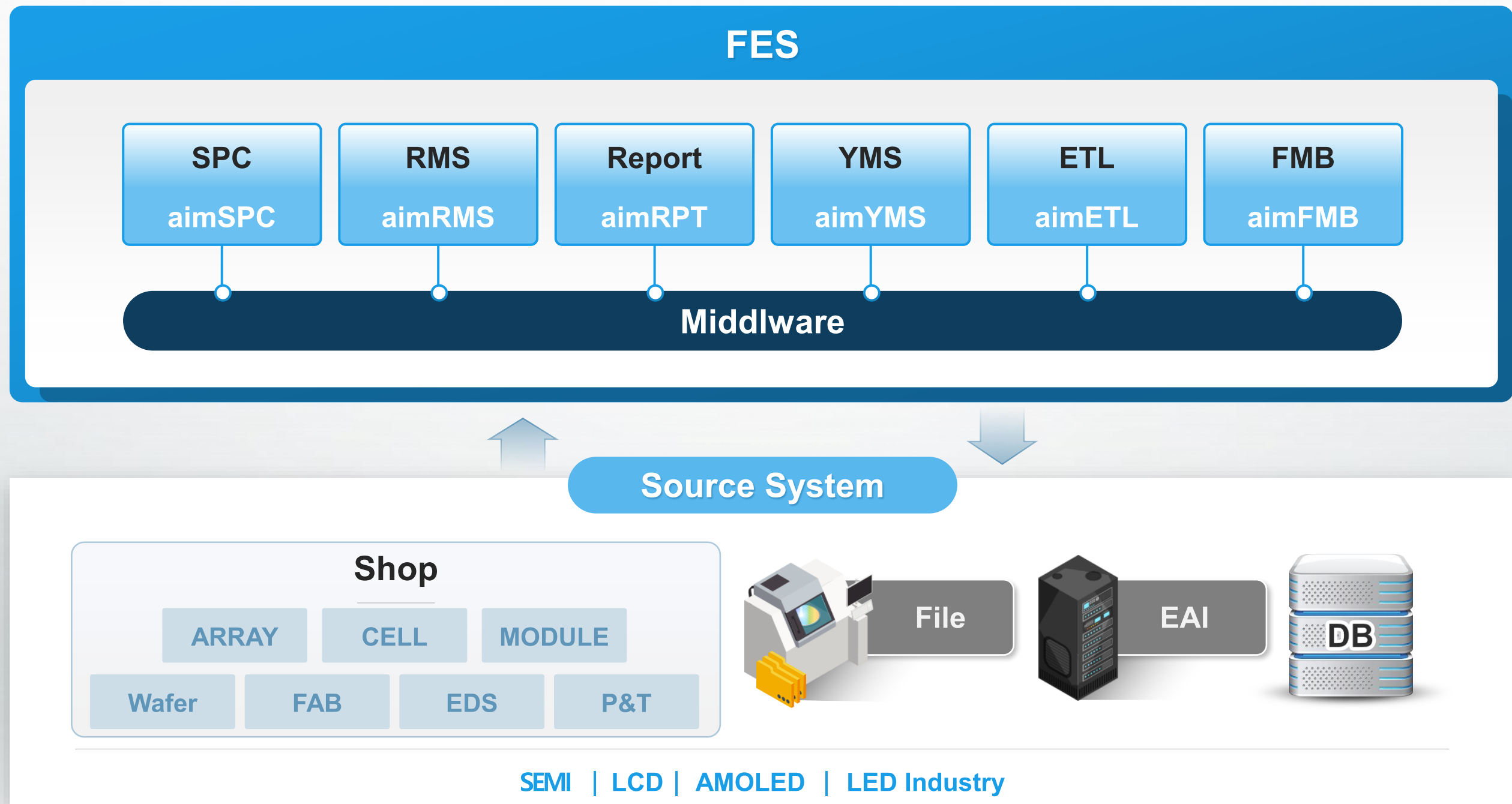


MES : Manufacturing Execution System / DSP : Dispatcher / MCS : Material Control System / ECS : Equipment Control System

02 High-tech - aimFactory

▣ FES(Factory Engineering System)

» Intelligent factory operation evaluation system that analyzes and extracts all data based on big data so that plant resources can be operated more efficiently

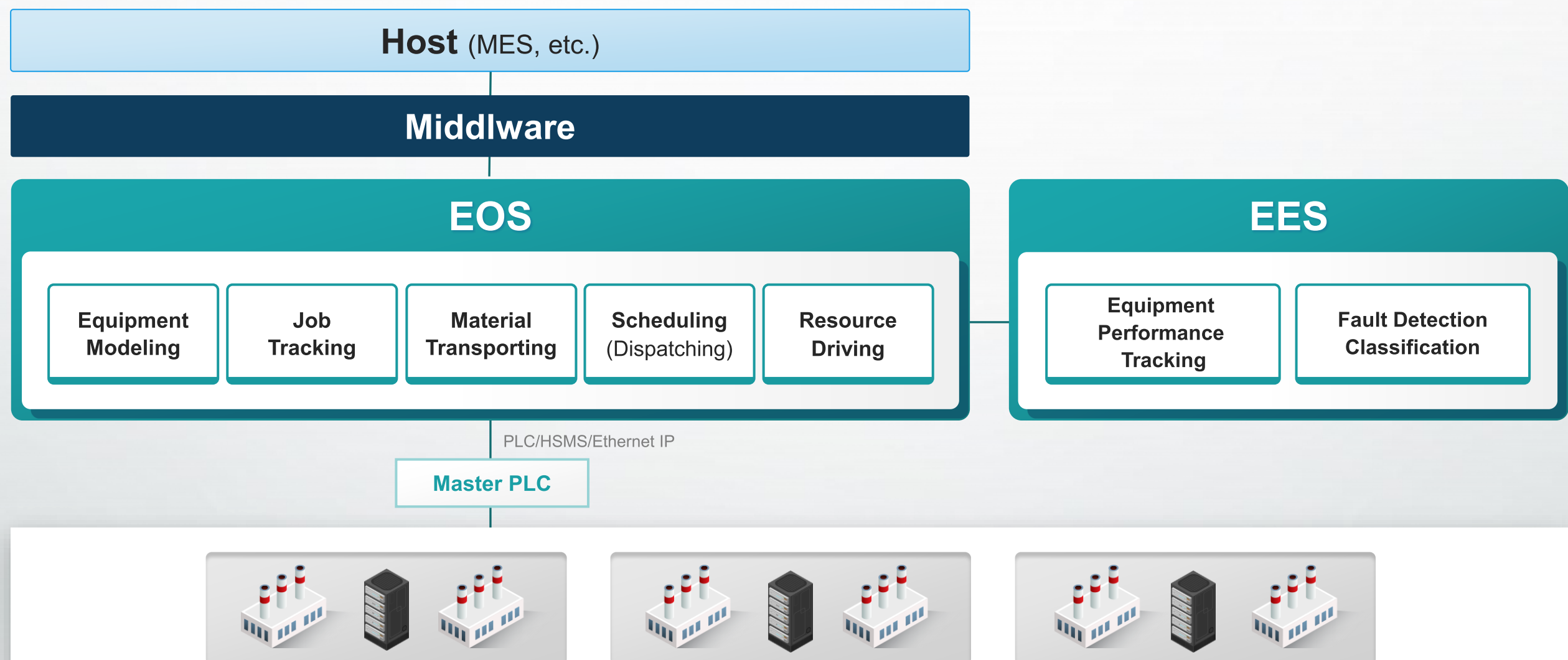


SPC : Statistical Process Control / RMS : Recipe Management System / YMS : Yield Management System / ETL : Extract, Transform, Load / FMB : Factory Monitoring Board

02 High-tech - aimFactory

▣ EOS(Equipment operating System) / EES(Equipment Engineering System)

- » Equipment automation system that provides comprehensive functions (equipment data collection, production control linked to host, equipment control, equipment and production status monitoring, etc.)
- » A system that supports engineering activities (data collection, analysis and maintenance / monitoring) of equipment performance and fault detection.



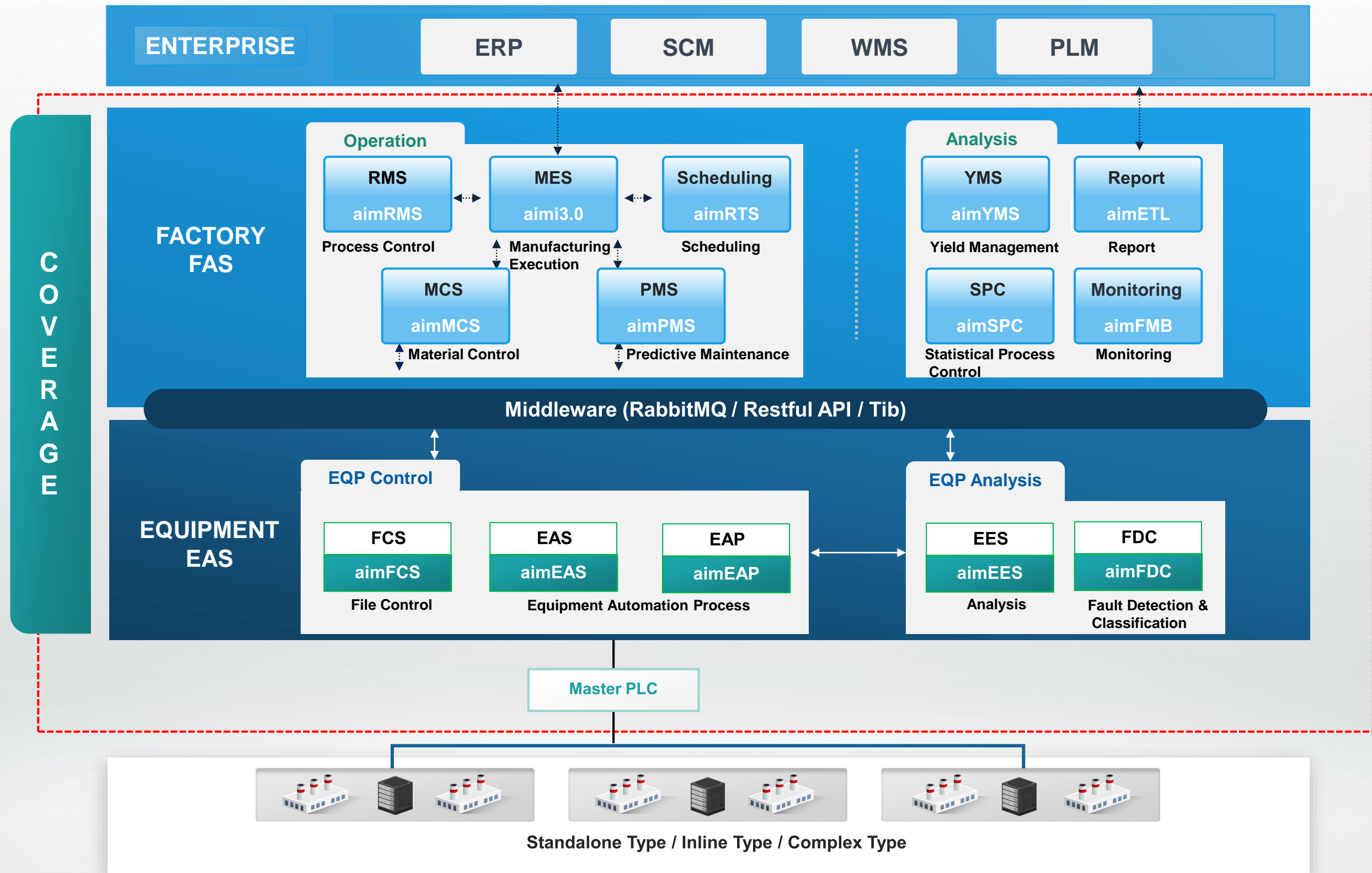
Standalone Type / Inline Type / Complex Type

SEMI | LCD | AMOLED | LED Industry

02 General Industry – aimi3.0 solution

▣ aimi3.0 solution

» Next-generation smart factory solutions to support manufacturing innovation



02 General Industry – aimi3.0 solution

▢ aimi3.0 solution

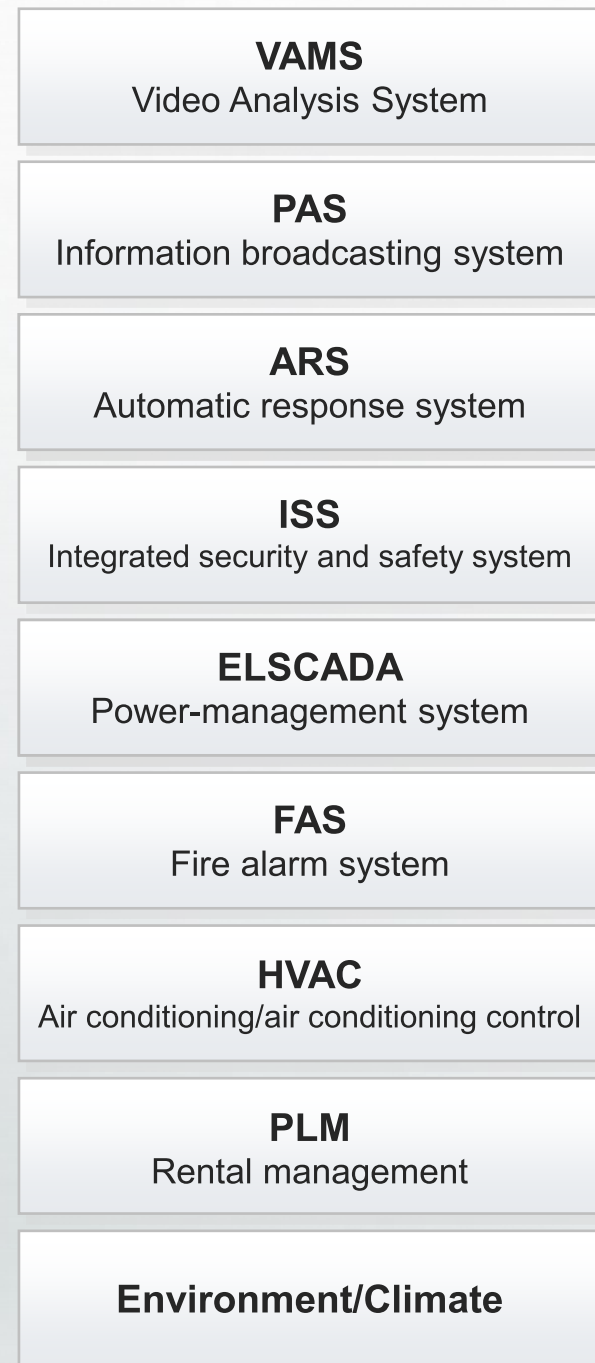
Standard Function


Production Planning	Packaging/shipment mgt.	SPC	Production status mgt.	EQP maintenance	Shipment report
Work Order	Work mgt.	Legacy I/F	Barcode mgt.	Recipe mgt.	Standard information
Material mgt.	EQP mgt.	Quality mgt.	Manufacturing Control	LOT Tracking	Data Collection

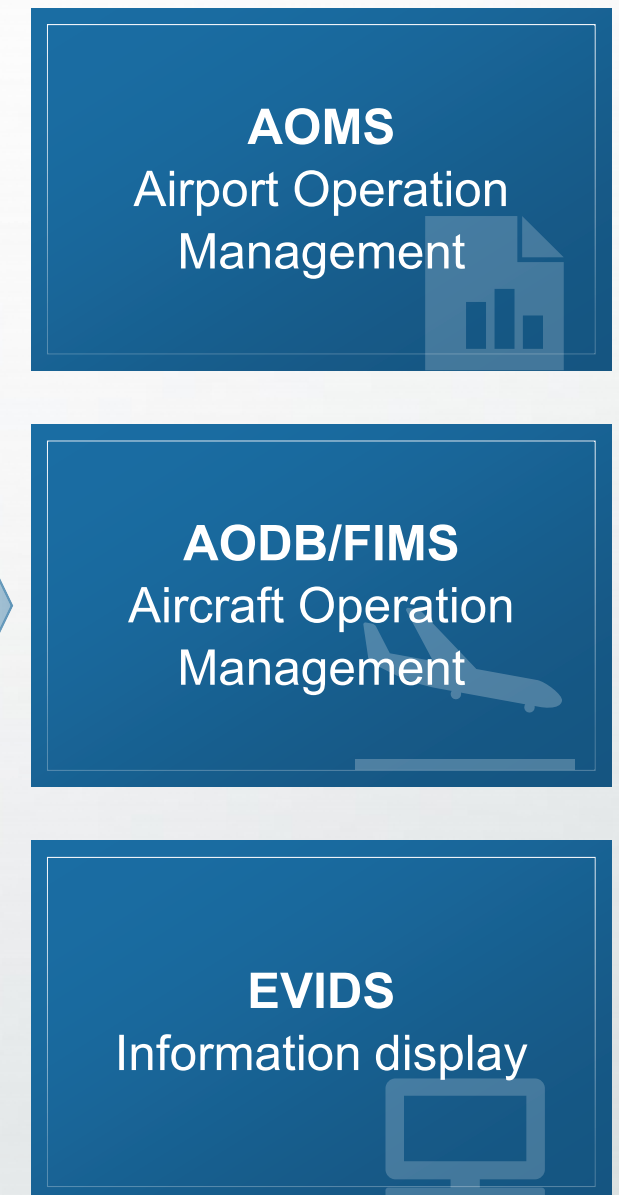
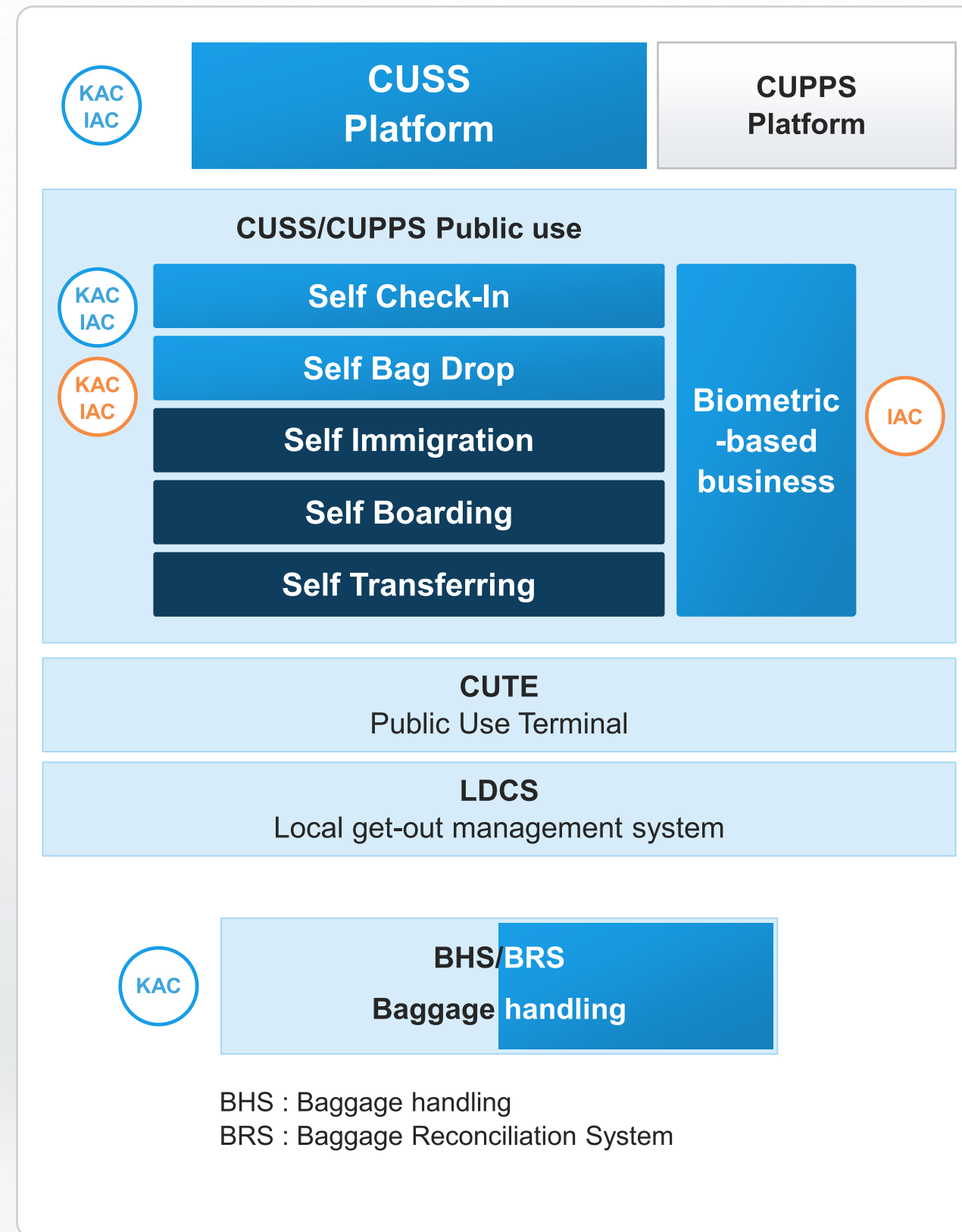
Industry Specific Function

Semiconductor material	Electronic assembly	Material chemistry	PCB/ Automotive Parts	Other general processing
Process operation management <ul style="list-style-type: none">• TestPGM Control• Bin map File Control• COA auto-generated	Process operation management <ul style="list-style-type: none">• Multi Lot Trace• Product/semi-finished product BOM management• Multi Device function	Process operation management <ul style="list-style-type: none">• Raw material input management• PQC management in the early, middle and late stages• Balance Performance Interface• Raw material stirring equipment control	Process operation management <ul style="list-style-type: none">• Mounter EQP management• AOI inspection result management• PCB Serial LOT tracking management	Process operation management <ul style="list-style-type: none">• Kiosk Performance Management• RunCard Traceability
Reusable Material Management <ul style="list-style-type: none">• FOSB management• PCard management	Label creation management <ul style="list-style-type: none">• RunCard Label management• Shipping label creation management		Reusable Material Management <ul style="list-style-type: none">• SolderCream history management	

02 Airport - aimAirport



 : aim's Coverage



02 Airport - aimAirport / Self Check-in

Key Features

- ✓ IATA CUSS Technical Specification
- ✓ Easy installation and mobile operation as wireless network construction using LTE network is possible.
- ✓ Provide customized self-check-in initial screen design
- ✓ New device authentication that constitutes self-check-in and rapid technical support for airlines
- ✓ Proven stability at 8 airports operated by Korea Airports Corporation (since 2016 ~)



References

Airlines (11)



Domestic Airport/Self Check-in (8/165)

“ Gimpo, Jeju, Gimhae,
Cheongju, Daegu,
Gwangju, Ulsan, Yeosu ”



International Airport/Self Check-in (5/74)

“ Gimpo, Jeju, Gimhae, Daegu,
Cheongju ”



02 Airport - aimAirport / Self Bag Drop

▶ Key Features

- ✓ IATA Recommended Practices 1701f
- ✓ Apply the same platform as the self-check-in CUSS platform
- ✓ Securing self-check-in level of performance/quality and stability
- ✓ Support development in connection with external systems
- ✓ Rapid airline and device authentication
- ✓ Support for advanced technologies such as RFID and biometrics
- ✓ Localization of various devices available
- ✓ Beautiful design and improved convenience
- ✓ Quick response to airline requirements



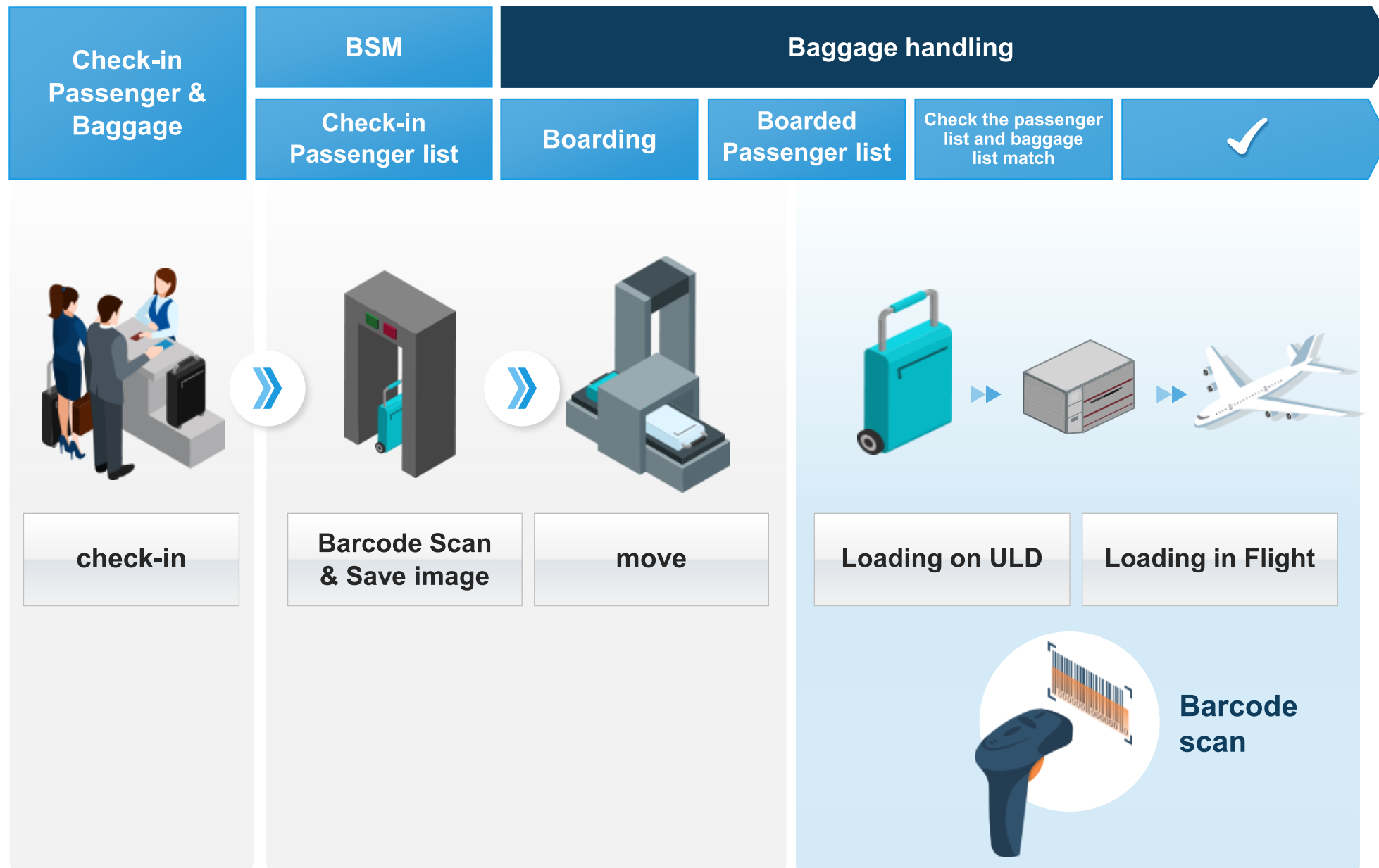
▶ References – CALT (City Airport, Logis & Travel, Korea, Co., Ltd)



02 Airport - aimAirport / BRS

▢ BRS (Baggage Reconciliation System, IATA Resolution 753 Baggage Tracking)

■ BRS ■ DCS



Departure
possible



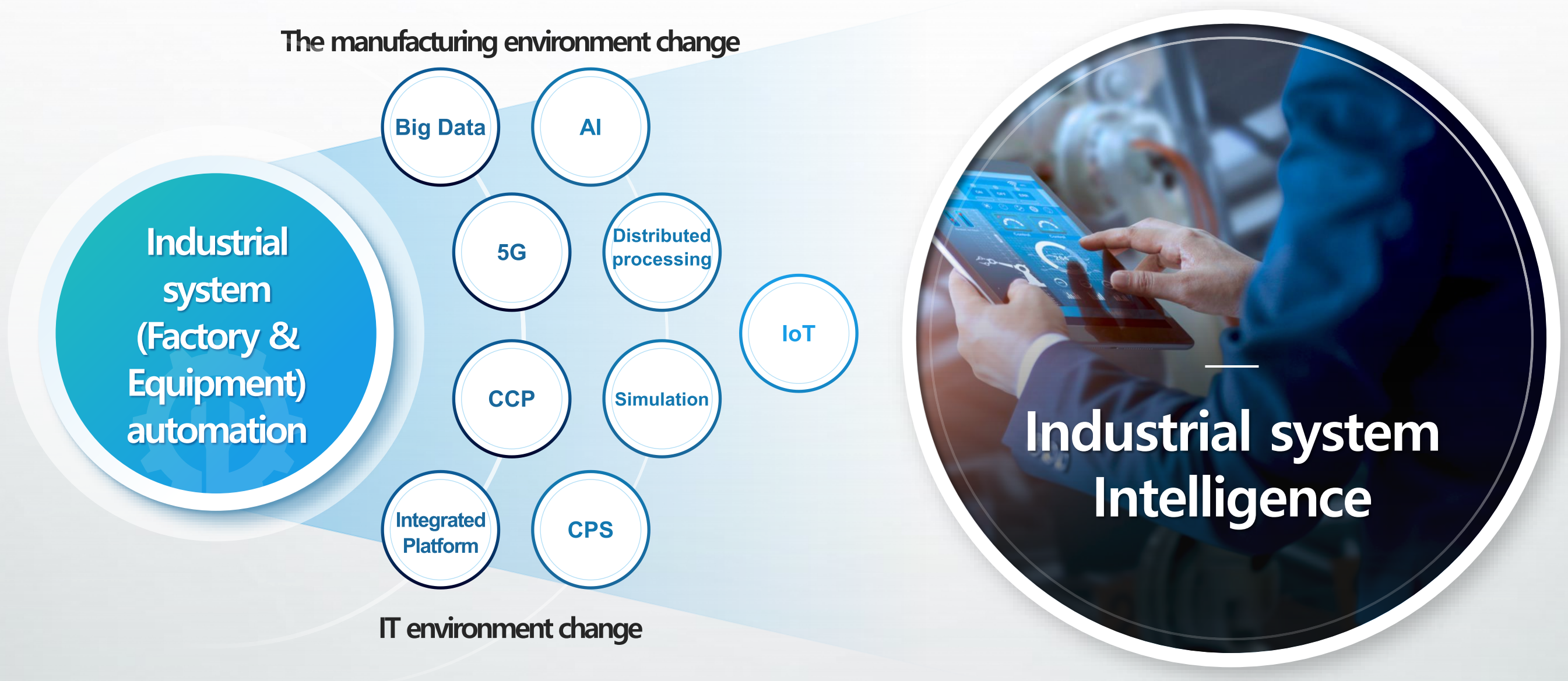
Gimpo International Terminal
BSA (Operating Area)

Barcode scanner

25 set

02 Solution Roadmap - Overview

- Using new IT technology, we will provide agile response to changes in the manufacturing environment and provide industrial system operation optimization and intelligence solutions that integrate manufacturing-related systems.



AI
Artificial Intelligence

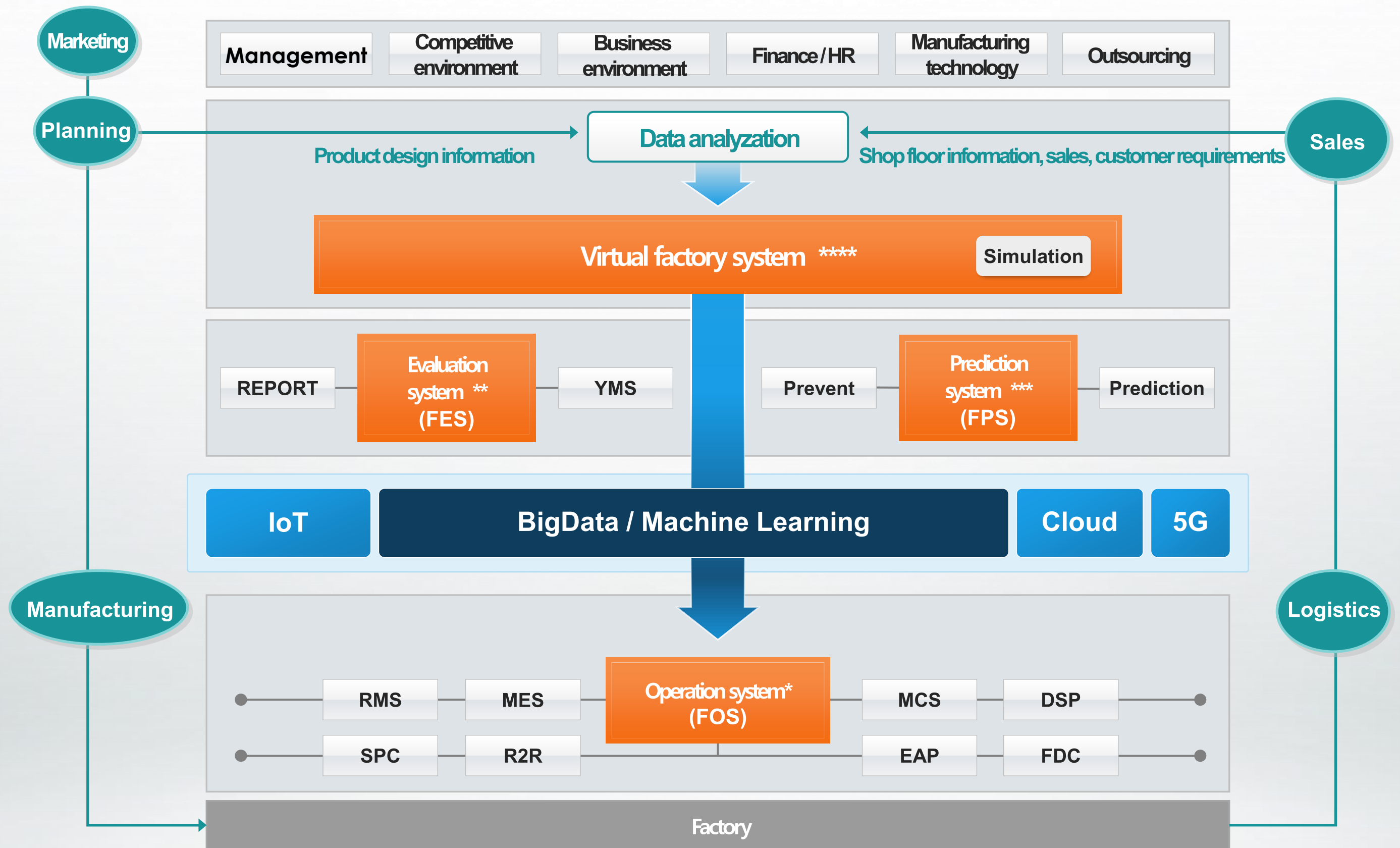
Big Data

IoT
Internet of Things

CCP
Cloud Computing Platform

CPS
Cyber Physical System

02 Solution Roadmap - Conceptual Architecture





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03 Business Status

03 References - Semiconductor

Domestic

FAB

- ✓ Samsung : 11 ~ 15Line, Back-end
- ✓ SK hynix : M10, M11, M12, M14, M15
DRAM-WT, R3, R&D, Mask Shop
- ✓ Magnachip : C4, C5
- ✓ SK Siltron
- ✓ ATEC Solution

EDS/PKG

- ✓ SK hynix Package Test, Probe
- ✓ Samsung Onyang Package
- ✓ SFA Semiconductor
- ✓ Signetics

Overseas

FAB

- ✓ SSW for Samsung Siltronic : 300mm
- ✓ SK Hynix China : 200mm, 300mm
- ✓ SHLMC : 300mm
- ✓ MEMC Wafer Level Control

EDS/PKG

- ✓ SK hynix China Probe
- ✓ SFA Semiconductor
SuZhou
- ✓ SFA Semiconductor Clark

03 References – Display

Domestic

LCD

- ✓ LG Display P6 ~ P8
- ✓ Samsung Display L4 ~ L6, T7, T8
- ✓ LG Display CF
- ✓ LUSEM

AMOLED

- ✓ Samsung Display : A1, A2
- ✓ DONGWOO FINE-CHEM : Touch For AMOLED

Overseas

FAB

- ✓ BOE : B1, B3 ~ B6, B8 ~ B10, TM1, B17
- ✓ Tianma : T1 ~ T4, T6
- ✓ CSOT : t1 ~ t3, t6, t7
- ✓ Truly : HZ G4.5, RS G5, SW G5
- ✓ InnoLux : T0/T1
- ✓ HKC H2 ~ H5
- ✓ CHOT, CDY, CEC-Panda

AMOLED

- ✓ BOE B6, B7, B11, B12
- ✓ Tianma : T5, T7, T8
- ✓ Visionox : V1, V2, V3
- ✓ Truly : Huizhou G4.5
- ✓ CSOT t4, EDO G6

03 References - Industry (1)

Smart Factory

Electronic Assembly

2020



2019



2019



2016



2014



PCB

2018



Dyeing

2019



Secondary battery

2020



2019



Automotive Parts

2011



2007



03 References - Industry (2)

Smart Factory

Advanced materials

2019



2018



2017



2013



2008



Chemical

2020



2020



2014



2009



Semiconductor processing

2020



2017



2017



2016



2015



03 Customers

Korea



China



North America



Europe



Taiwan



Singapore





Q&A

Thank You

GLOBAL NO.1 INDUSTRIAL INTELLIGENCE SOLUTION PROVIDER