

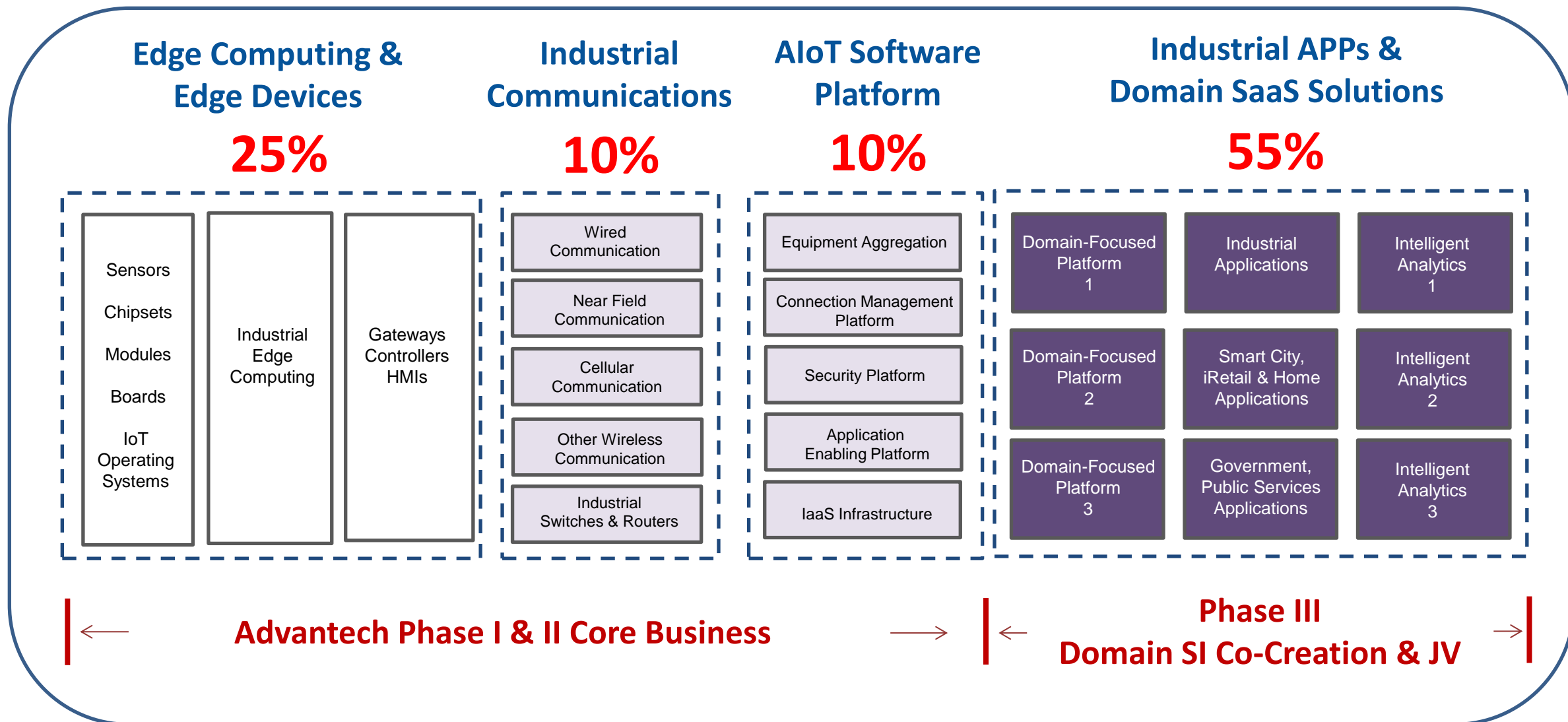
Co-Creating the Future of the IoT World

Enabling Digital Transformation of Industry Domains

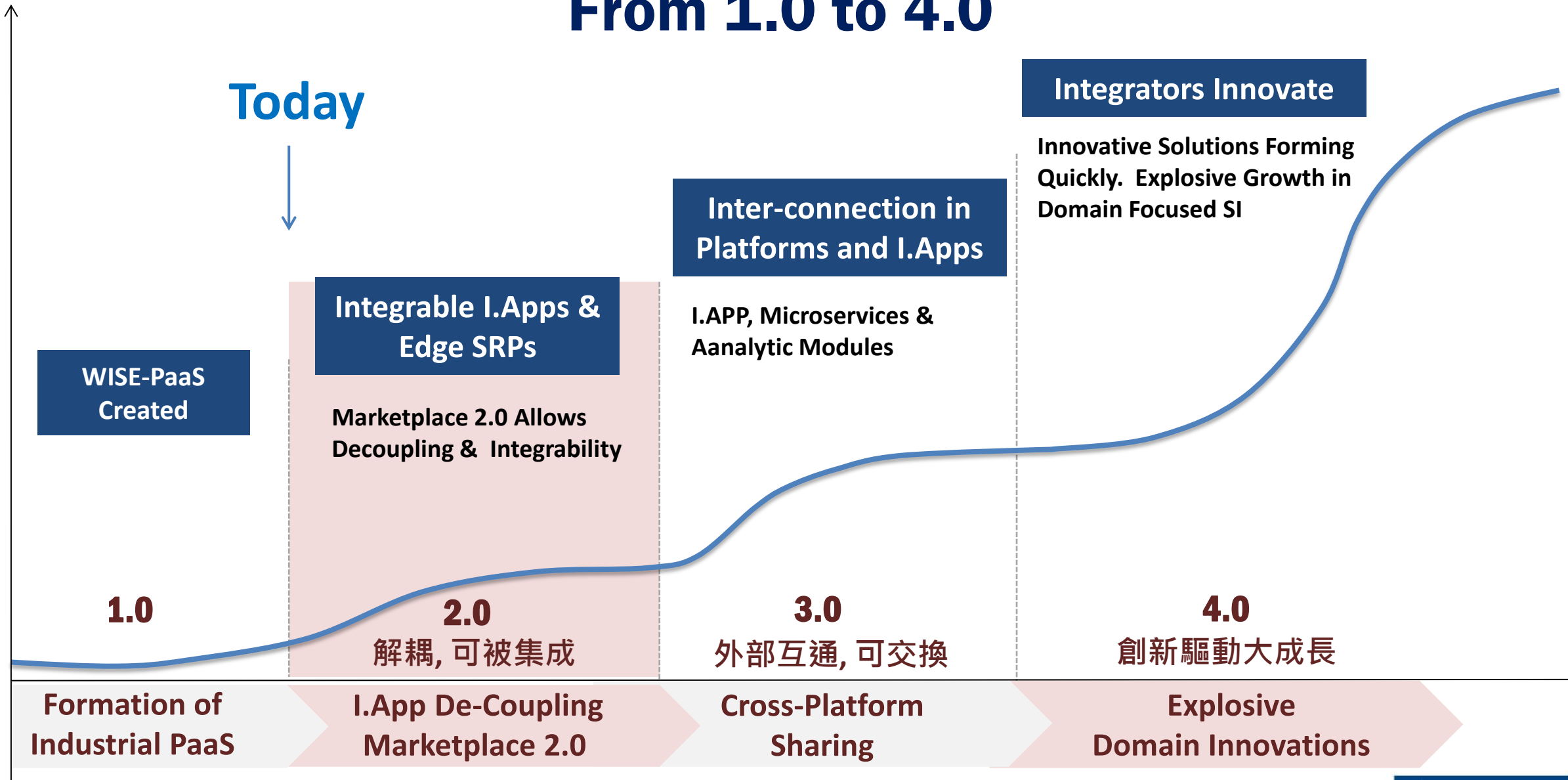
K.C. Liu, CEO, Advantech



AIoT Industry Value Chain and Market Size



Industrial IoT Platform Evolution Path From 1.0 to 4.0



The Key Concept of Software De-Coupling



**Feature Phone
Vs**

**Smart Phone
with Apps**



**Construction Machine
Vs**

Machine with SaaS



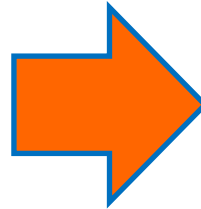
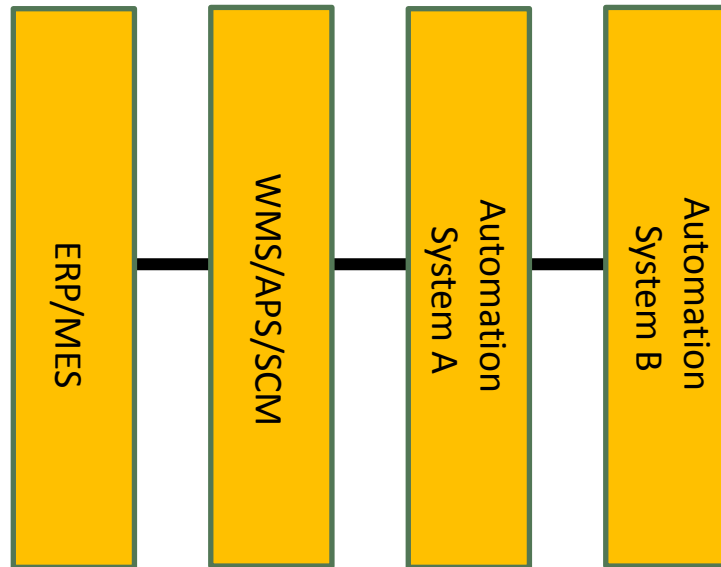
**Automation Equipment
Vs**

**De-Coupled
Industry AIoT Solutions
with I.Apps**

Cloud Based, Data Driven Digital Transformation, From 1.0 to 2.0

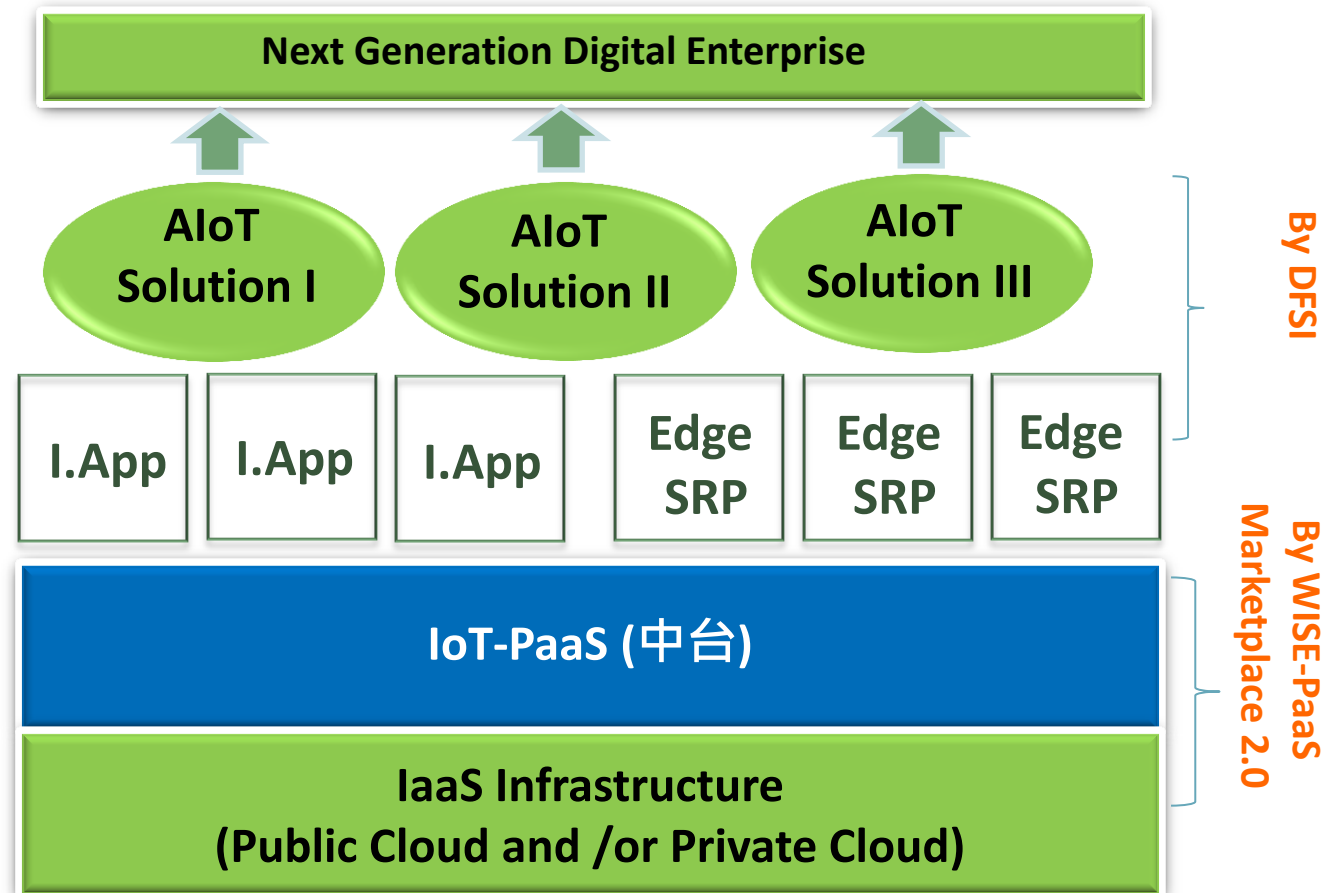
Digital Transformation 1.0

Internal Process Driven
IT & Automation Silos



Digital Transformation 2.0

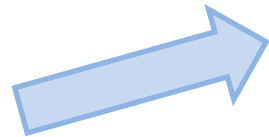
Cloud Based, Data Driven



WISE-PaaS New Slogan and New Concept

Marketplace 2.0 :

- De-Coupled & Integrable I.Apps
- Open for Eco-Partner Co-Creation
- Domain Categorized Solution Sharing



WISE-PaaS Marketplace 2.0 Landing Page

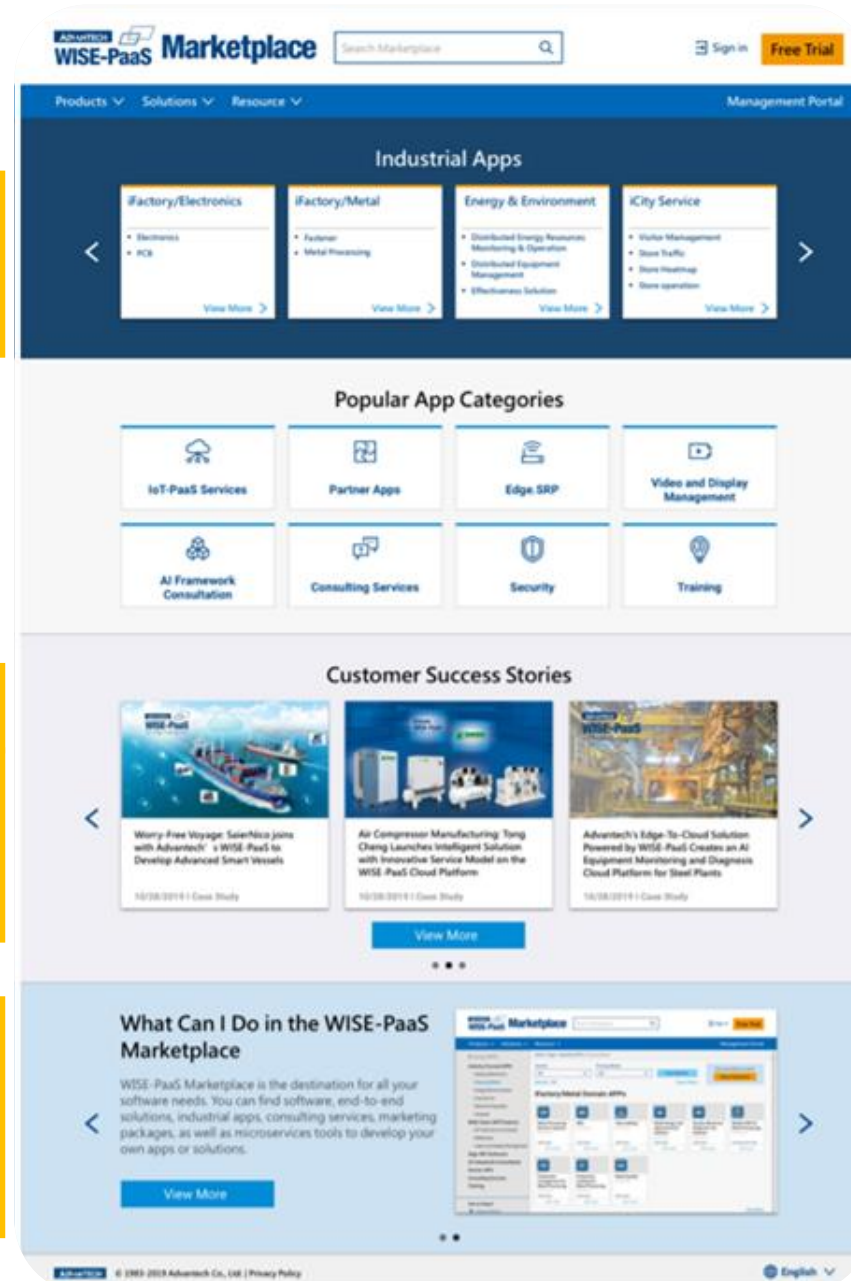
Industrial Domain Apps

Explore Apps by industrial domain

- iFactory/Electronics
- iFactory/Metal
- Energy & Environment
- iCity Service
- iRetail & Hospitality
- iHospital

Success Stories

About WISE-PaaS & Marketplace



Popular App Categories

Explore Apps by categories

- IoT-PaaS Services
- Partner Apps
- Edge.SRP
- Video and Display Management
- AI Framework Consultation
- Consulting Services
- Security
- Training

WISE-PaaS Marketplace 2.0 : Industrial Apps (I.Apps)

Sort by Categories

- Industry Focused Apps
- WISE-PaaS I.App Product
- DeviceOn App & Dev
- Edge.SRP
- Partner Apps
- AI Framework Consultation
- Training

The screenshot displays the WISE-PaaS Marketplace 2.0 interface. At the top, there's a navigation bar with 'Products', 'Solutions', and 'Resource' dropdowns, a search bar, and 'Sign in' and 'Free Trial' buttons. The main content area is divided into sections: 'Browse Apps' on the left sidebar, 'iFactory/Metal Domain Apps' in the top right, 'iFactory Industry Apps' in the middle right, and 'WISE-PaaS Common Apps' at the bottom right. Each section contains a grid of app cards with icons, titles, and brief descriptions. The 'iFactory/Metal Domain Apps' section includes apps like 'Metal Processing Management', 'Manufacturing execution system', 'Tube welding', 'Mold Design and adjustment for Fastener', 'Quality Abnormal Diagnostic for Fastener', and 'Mobile OEE for Metal Processing'. The 'iFactory Industry Apps' section includes 'Factory Energy Management', 'Overall Equipment Effectiveness', 'Factory Asset Performance', 'Mobile Dashboard', 'Mobile OEE', 'Mobile FEMS', 'Lite MES', 'Factory Environment and Waste Monitoring', 'Equipment Maintenance', and 'Command Center Dashboard'. The 'WISE-PaaS Common Apps' section includes 'WISE-PaaS/EnXaaS', 'WISE-PaaS/APM', 'WISE-PaaS/APS', 'WISE-Stack', 'WISE-PaaS/SaaS Composer', 'WISE-PaaS/Video Service', 'WISE-PaaS/Notification', 'WISE-PaaS/Command Center Dashboard', 'WISE-PaaS/OTA', 'WISE-PaaS/VPN', and 'WISE-PaaS/Lockdown'.

Domain Apps

Industry Apps

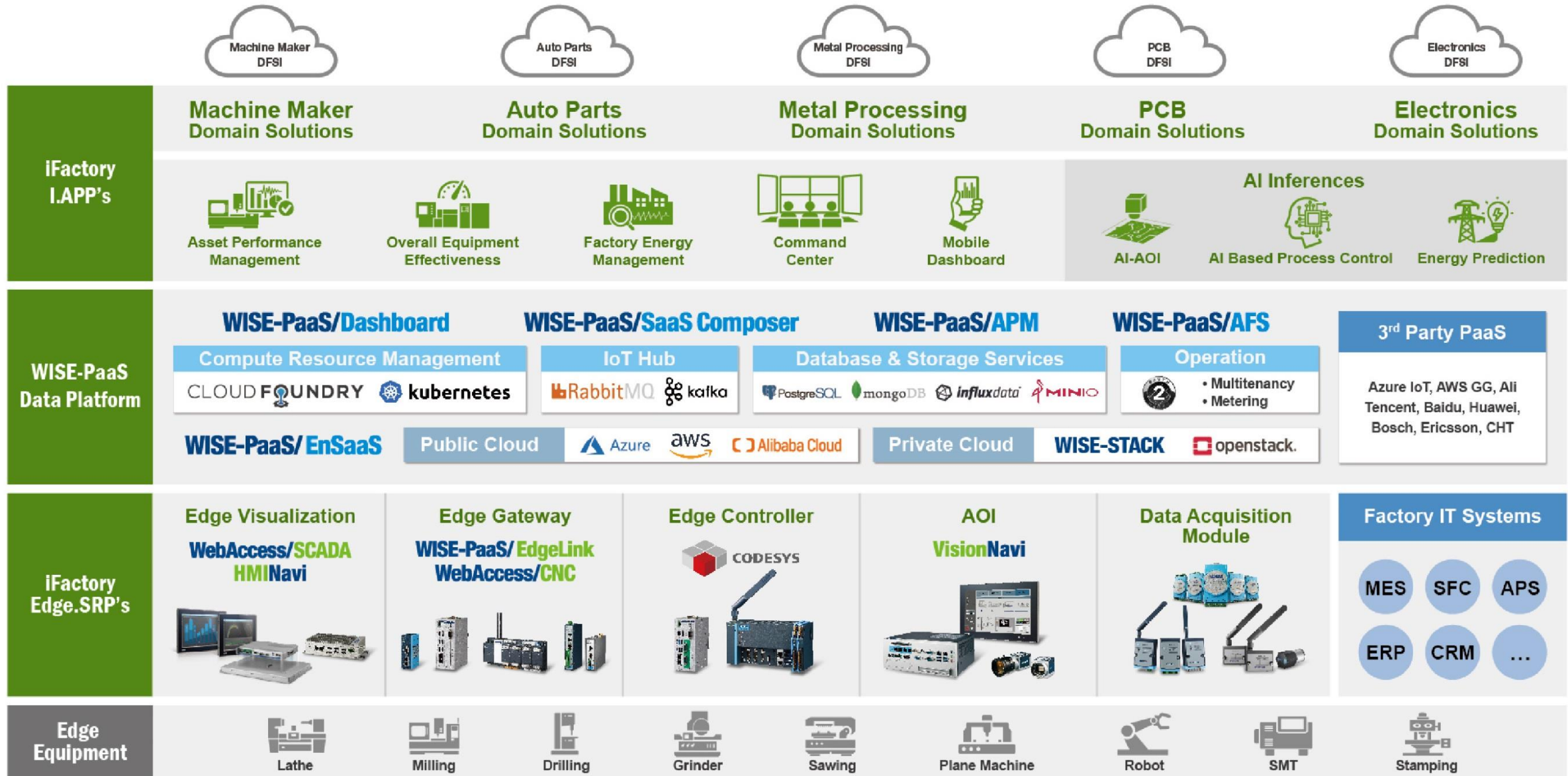
WISE-PaaS Common Apps

I.Apps Portfolio on WISE-PaaS Marketplace 2.0

<div>Domain-Focused Apps</div> <div>行業專用</div>	<div><div>iFactory</div><div>Drilling Diagnostic</div></div> <div><div>iFactory</div><div>PHM</div><div>Preventive Maintenance</div></div> <div><div>iFactory</div><div>MA</div><div>Mold Design and Adjustment for Fastener</div></div> <div><div>iFactory</div><div>YR</div><div>Yield Rate</div></div> <div><div>iFactory</div><div>PEM</div><div>PEM</div></div> <div><div>iFactory</div><div>FERM</div><div>Factory Equipment Repairing & Maintenance</div></div>	<div><div>E&E</div><div>Blowing and Aeration Energy Saving</div></div> <div><div>E&E</div><div>Power Predictive Analysis</div></div> <div><div>E&E</div><div>Loading Predictive Analysis</div></div> <div><div>E&E</div><div>Maximum Demand Prediction</div></div>	<div><div>iCity</div><div>CDT</div><div>Crowd Detection Dashboard</div></div> <div><div>iCity</div><div>FAT</div><div>Facial Attendance</div></div>	<div><div>iRetail</div><div>SHM</div><div>Store Traffic Dashboard</div></div> <div><div>iRetail</div><div>SHM</div><div>Store Heatmap Dashboard</div></div>	<div><div>iHospital</div><div>HQM</div><div>Hospital Queuing Monitoring</div></div> <div><div>iHospital</div><div>OPBI</div><div>Outpatient BI</div></div> <div><div>iHospital</div><div>OPM</div><div>Operations Management</div></div>
	<div><div>iFactory</div><div>SPC</div><div>Statistic Process Control</div></div> <div><div>iFactory</div><div>QAD</div><div>Quality Abnormal Diagnostic for Fastener</div></div> <div><div>iFactory</div><div>Mold</div><div>Mold Diagnostic</div></div> <div><div>iFactory</div><div>FM</div><div>Former Monitor</div></div> <div><div>iFactory</div><div>SFT</div><div>SFT</div></div> <div><div>iFactory</div><div>FDFPM</div><div>Forming defect and failure predictive module</div></div>	<div><div>E&E</div><div>Coagulation Sedimentation Process Dosing Control</div></div> <div><div>E&E</div><div>Optical Power Prediction</div></div> <div><div>E&E</div><div>Energy & Consumption Analysis by Category</div></div> <div><div>E&E</div><div>HVAC Strategic Evaluation</div></div>	<div><div>iCity</div><div>SDC</div><div>Smart Display Control</div></div> <div><div>iCity</div><div>SSM</div><div>Signage Sensor Manager</div></div>	<div><div>iRetail</div><div>Store Prediction</div></div> <div><div>iRetail</div><div>Smart Menu Board Control</div></div>	<div><div>iHospital</div><div>iWard</div><div>iWard Control Center</div></div> <div><div>iHospital</div><div>NSD</div><div>Nursing Station Dashboard</div></div> <div><div>iHospital</div><div>PCE</div><div>Patient Call Engine</div></div>
	<div><div>iFactory</div><div>MES Lite</div><div>Lite MES</div></div> <div><div>iFactory</div><div>Andon</div><div>Andon Monitoring</div></div> <div><div>iFactory</div><div>APS</div><div>Advanced Planning & scheduling</div></div> <div><div>iFactory</div><div>PCM</div><div>PCM</div></div> <div><div>iFactory</div><div>PMS</div><div>PMS</div></div>	<div><div>E&E</div><div>Failure Prediction Warning</div></div> <div><div>E&E</div><div>Photovoltaic Power Generation Analysis</div></div> <div><div>E&E</div><div>Vibration Predictive Warning</div></div>	<div><div>iCity</div><div>Customer Satisfaction</div></div> <div><div>iCity</div><div>VTM</div><div>Visitor Management</div></div>	<div><div>iRetail</div><div>SOM</div><div>Store Operation Management</div></div> <div><div>iRetail</div><div>RFM</div><div>Refrigerator Management</div></div>	<div><div>iHospital</div><div>ER Management</div></div> <div><div>iHospital</div><div>ICU Management</div></div> <div><div>iHospital</div><div>PCM</div><div>Patient Care Management</div></div>
	<div><div>iFactory</div><div>Work Order</div></div> <div><div>iFactory</div><div>PDD</div><div>Process Defect Detection</div></div> <div><div>iFactory</div><div>FDC</div><div>Fault detection classification</div></div> <div><div>iFactory</div><div>MPM</div><div>Metal Processing Management</div></div> <div><div>iFactory</div><div>MQC</div><div>MQC</div></div>	<div><div>E&E</div><div>Influent Water Pump Energy Saving</div></div> <div><div>E&E</div><div>Equipment Predictive Analysis</div></div> <div><div>E&E</div><div>Membrane Bioreactor System</div></div>	<div><div>iCity</div><div>Queueing Engine</div></div> <div><div>iCity</div><div>ISM</div><div>Interactive Sensor Manager</div></div>	<div><div>iRetail</div><div>Customer Profile Dashboard</div></div>	<div><div>iHospital</div><div>IPBI</div><div>Inpatient BI</div></div>
<div>Industry Apps</div> <div>產業通用</div>	<div><div>iFactory</div><div>OEE</div><div>Environment and Waste Monitoring</div></div> <div><div>iFactory</div><div>Factory Energy Management</div></div> <div><div>iFactory</div><div>Environment and Waste Monitoring</div></div> <div><div>iFactory</div><div>FAPM</div><div>Factory Asset Performance Mgt.</div></div> <div><div>iFactory</div><div>OEE APM</div><div>APM OEE</div></div>	<div><div>E&E</div><div>Failure Prediction & Grouped Analysis</div></div> <div><div>E&E</div><div>Domain Application Scenario Configuration</div></div> <div><div>E&E</div><div>Real-Time EquipmentMonitoring</div></div>	<div><div>iCity</div><div>PCA</div><div>People Counting Analytics</div></div> <div><div>iCity</div><div>IBMS APM</div><div>APM IBMS</div></div>	<div><div>iRetail & Hospitality</div><div>Store BI</div><div>Store BI</div></div> <div><div>iRetail & Hospitality</div><div>PVM</div><div>POS Video Monitor</div></div>	<div><div>iHospital</div><div>HKPI</div><div>Hospital KPI Dashboard</div></div> <div><div>iHospital</div><div>HAPM</div><div>Hospital Asset Management</div></div> <div><div>iHospital</div><div>Air Quality Management</div></div>
<div>Common Apps</div> <div>中台</div>	<div><div>Lwm2M</div><div>WISE-PaaS/ Lwm2M</div></div> <div><div>OTA 2.0</div><div>WISE-PaaS/OTA</div></div> <div><div>EnSaaS 4.0</div><div>WISE-PaaS/ EnSaaS</div></div> <div><div>EnSaaS DataService</div><div>EnSaaS/ Data Service</div></div> <div><div>WISE STACK</div><div>WISE-PaaS/ WISE STACK</div></div> <div><div>SaaS Composer</div><div>WISE-PaaS/ SaaS Composer</div></div> <div><div>Command Center</div><div>Command Center</div></div> <div><div>Dashboard</div><div>WISE-PaaS/ Dashboard</div></div> <div><div>Dashboard</div><div>Mobile Dashboard</div></div> <div><div>Signage CMS</div><div>WISE-PaaS/Signage CMS Management</div></div> <div><div>PHM AFS</div><div>WISE-PaaS/ AFS PHM</div></div>	<div><div>aws</div><div>AWS</div></div> <div><div>Alibaba</div><div>Alibaba</div></div> <div><div>Azure</div><div>Azure</div></div> <div><div>McAfee</div><div>McAfee</div></div> <div><div>Alleantia</div><div>Alleantia ISC</div></div> <div><div>Acronis</div><div>Acronis True Image Personal OEM</div></div> <div><div>SignApps</div><div>SignApps Express Cloud</div></div> <div><div>Machbase</div><div>Machbase</div></div> <div><div>Parking Telecom Labs</div><div>Parking Telecom Labs</div></div>			
<div>Edge.SRPs</div> <div>邊緣功能模組</div>	<div><div>Edge.SRP</div><div>EdgeLink</div><div>Edge.SRP/ EdgeLink</div></div> <div><div>Edge.SRP</div><div>AOI</div><div>Edge.SRP/ AOI</div></div> <div><div>Edge.SRP</div><div>Android DM</div><div>Android DM</div></div> <div><div>Edge.SRP</div><div>Cell ME</div><div>ME-Cell</div></div> <div><div>Edge.SRP</div><div>Line ME</div><div>ME-Line</div></div> <div><div>Edge.SRP</div><div>Signage CMS</div><div>Edge.SRP/ SignageCMS</div></div> <div><div>Edge.SRP</div><div>NVR</div><div>Edge.SRP/ Intelligent NVR</div></div> <div><div>Edge.SRP</div><div>PCount</div><div>Edge.SRP/ People Counting</div></div> <div><div>Edge.SRP</div><div>FR</div><div>Edge.SRP/ Facial Recognition</div></div> <div><div>DeviceOn</div><div>OTA</div><div>DeviceOn/ OTA</div></div> <div><div>DeviceOn</div><div>E2I</div><div>DeviceOn/ E2I</div></div> <div><div>DeviceOn</div><div>ePaper</div><div>DeviceOn/ ePaper</div></div> <div><div>DeviceOn</div><div>FaceView</div><div>DeviceOn/ FaceView</div></div> <div><div>DeviceOn</div><div>DM</div><div>DeviceOn/ Device Management</div></div> <div><div>DeviceOn</div><div>Security</div><div>DeviceOn/ Security</div></div> <div><div>DeviceOn</div><div>Data Management</div><div>DeviceOn/ Data Management</div></div> <div><div>DeviceOn</div><div>Connectivity Service</div><div>DeviceOn/ Connectivity Service</div></div> <div><div>DeviceOn</div><div>Rule Engine</div><div>DeviceOn/ Rule Engine</div></div>	<div><div>AI Navi</div><div>AINavi</div></div> <div><div>DAQ Navi</div><div>DAQNavi</div></div> <div><div>HMI Navi</div><div>HMINavi</div></div> <div><div>Motion Navi</div><div>MotionNavi</div></div> <div><div>Vision Navi</div><div>VisionNavi</div></div> <div><div>WebAccess-ss</div><div>WebAccess/ SCADA</div></div> <div><div>WebAccess-ss</div><div>WebAccess/ DMP</div></div> <div><div>WebAccess-ss</div><div>CNC</div><div>WebAccess/ CNC</div></div> <div><div>WebAccess-ss</div><div>NMS</div><div>WebAccess/ NMS</div></div> <div><div>WebAccess-ss</div><div>Wzzard</div><div>WebAccess/ Wzzard</div></div>			

ADVANTE

iFactory/Industry 4.0 Digital Transformation with Data Driven Refactoring



WISE-PaaS/ DeviceOn

Empowers Edge Intelligence



Device Management

- Device Monitoring and Diagnostics
- Device Control & Updating



Data Management

- Data Acquisition and Storage
- Secure Data Access



Connectivity Service

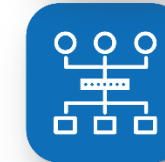
- Device Connectivity
- Plug-n-Play Peripherals

DeviceOn.Dev



OTA

- Software & Firmware Updates
- Advantech BIOS Updates



Rule Engine

- Distributed Rule Monitoring
- Flexible Trigger and Action



Data Security

- McAfee Threat Protection
- Acronis Backup Recovery

DeviceOn.App

DeviceOn
OTA

OTA

- Software, firmware & configuration updates
- Advantech BIOS updates

DeviceOn
FaceView

FaceView

- Facial recognition
- People counting
- Behavior detection

DeviceOn
E2I

E2I

- Protocol conversion
- Edge intelligence
- Real-time virtualization

DeviceOn
ePaper

ePaper Manager

- EPD device auto-discover
- Fast transmission
- Device association

WISE-PaaS Marketplace 2.0 - DeviceOn Dev. & Apps

DeviceON App & Dev 選項

ADVANTECH WISE-PaaS Marketplace Search Marketplace Sign in Free Trial

Products Solutions Resource Management Portal

Browse Apps

Industry Focused Apps

- iFactory/Electronics
- iFactory/Metal
- Energy & Environment
- iCity Service
- iRetail & Hospitality
- iHospital

WISE-PaaS I.App Products

- IoT-PaaS Service (EnSaaS)
- WebAccess
- Video and Display Management

DeviceOn App & Dev

Edge SRP (Software)

Partner Apps

AI Framework Consultation

Consulting Services

Training

Ask an Expert

- Request Call Back
- Contact Sales
- More Contacts

Toll Free
1-888-576-9668
800-866-6008
800-346-3119

Home > Apps > Industrial Apps > iFactory/Metal

Vendor: All Pricing Model: All View Results Clear Filters

Results: 182

DeviceOn Apps

DeviceOn DM	DeviceOn FaceView	DeviceOn E2I	DeviceOn ePaper	DeviceOn OTA
Device Management By Advantech	Face View By Advantech	Equipment to Intelligence By Advantech	ePaper Management By Advantech	OTA Updates By Advantech
Free	125 Points	180 Points	100 Points	Free
Free Software Trial	Get it now	Get it now	Get it now	Free Software Trial

DeviceOn Dev

DeviceOn DM	DeviceOn Data Management	DeviceOn Connectivity Service	DeviceOn OTA	DeviceOn Rule Engine	DeviceOn DeviceOn Security
Device Management By Advantech	Data Management By Advantech	Connectivity Service By Advantech	OTA Updates By Advantech	Rule Engine By Advantech	DeviceOn Security By Advantech
Free	Free	Free	Free	Free	Free
Free Software Trial	Free Software Trial	Free Software Trial	Free Software Trial	Free Software Trial	Free Software Trial

DeviceOn 3rd Party Apps

McAfee	Acronis
Application Control By Advantech	Backup & Recovery By Advantech
2 Points	2 Points
Get it now	Get it now

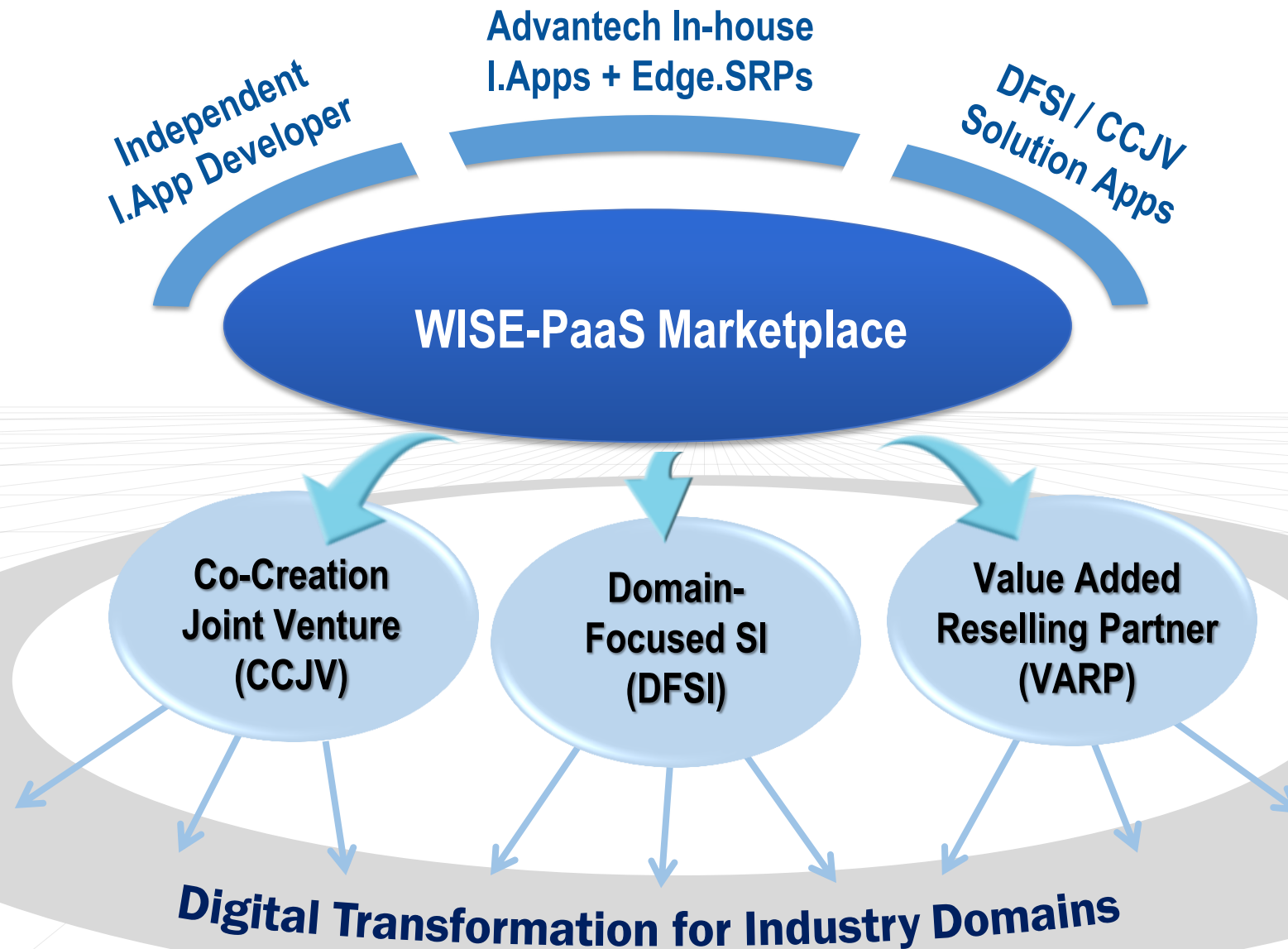
ADVANTECH © 1983-2019 Advantech Co., Ltd. | Privacy Policy English

DeviceON App

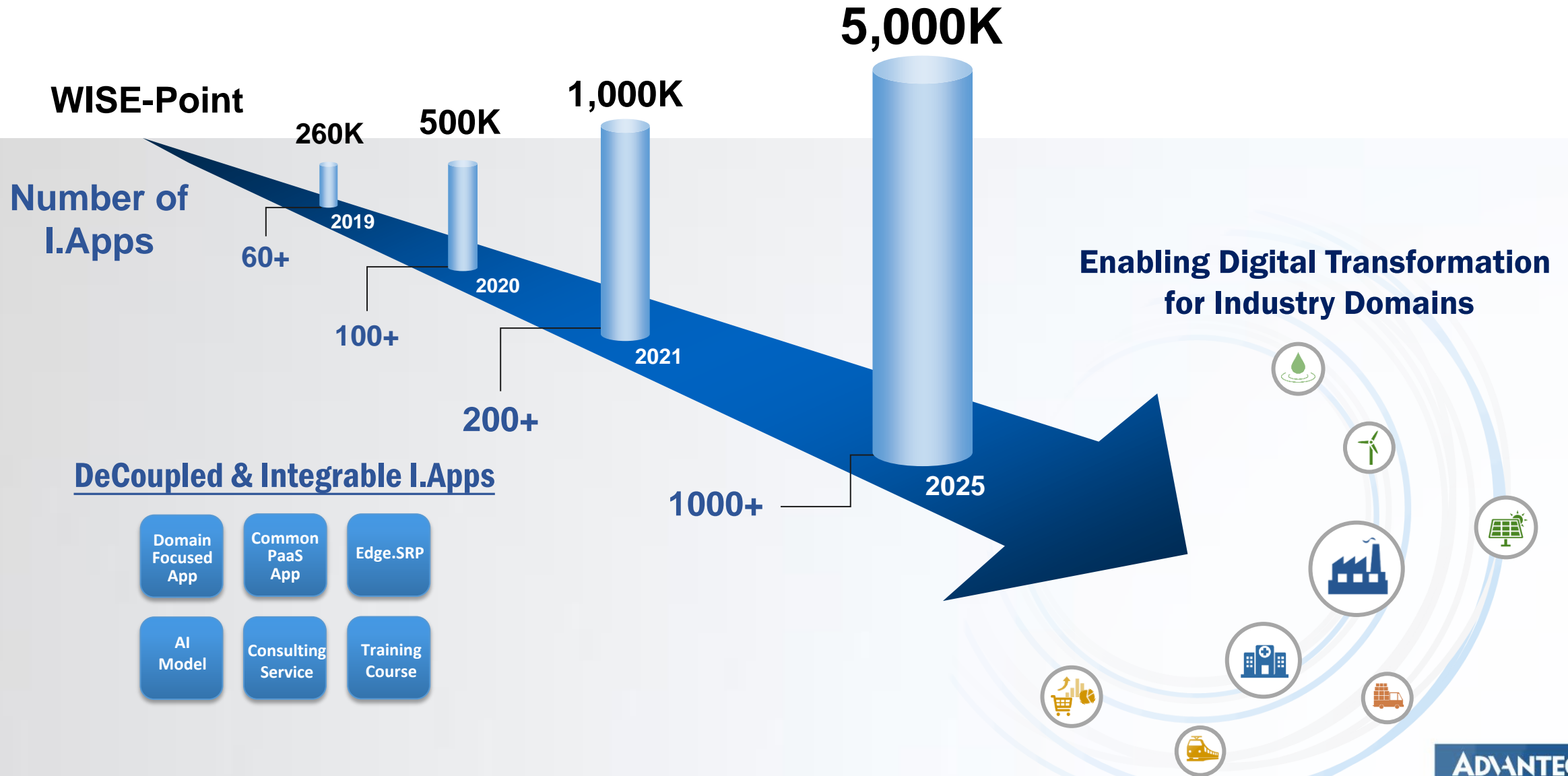
DeviceON Dev

DeviceON 3rd Party App

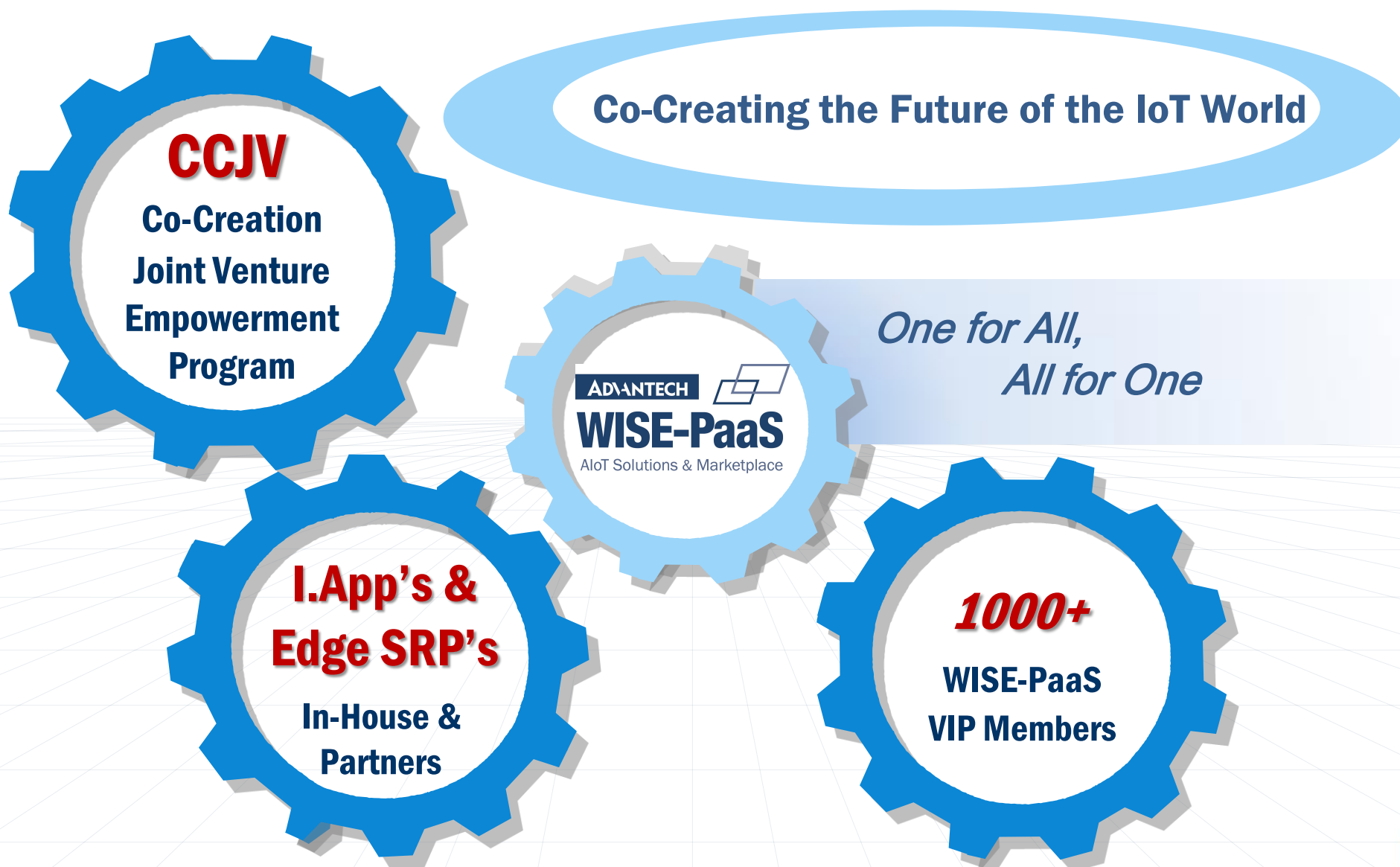
Eco-system Co-Creation with WISE-PaaS Marketplace



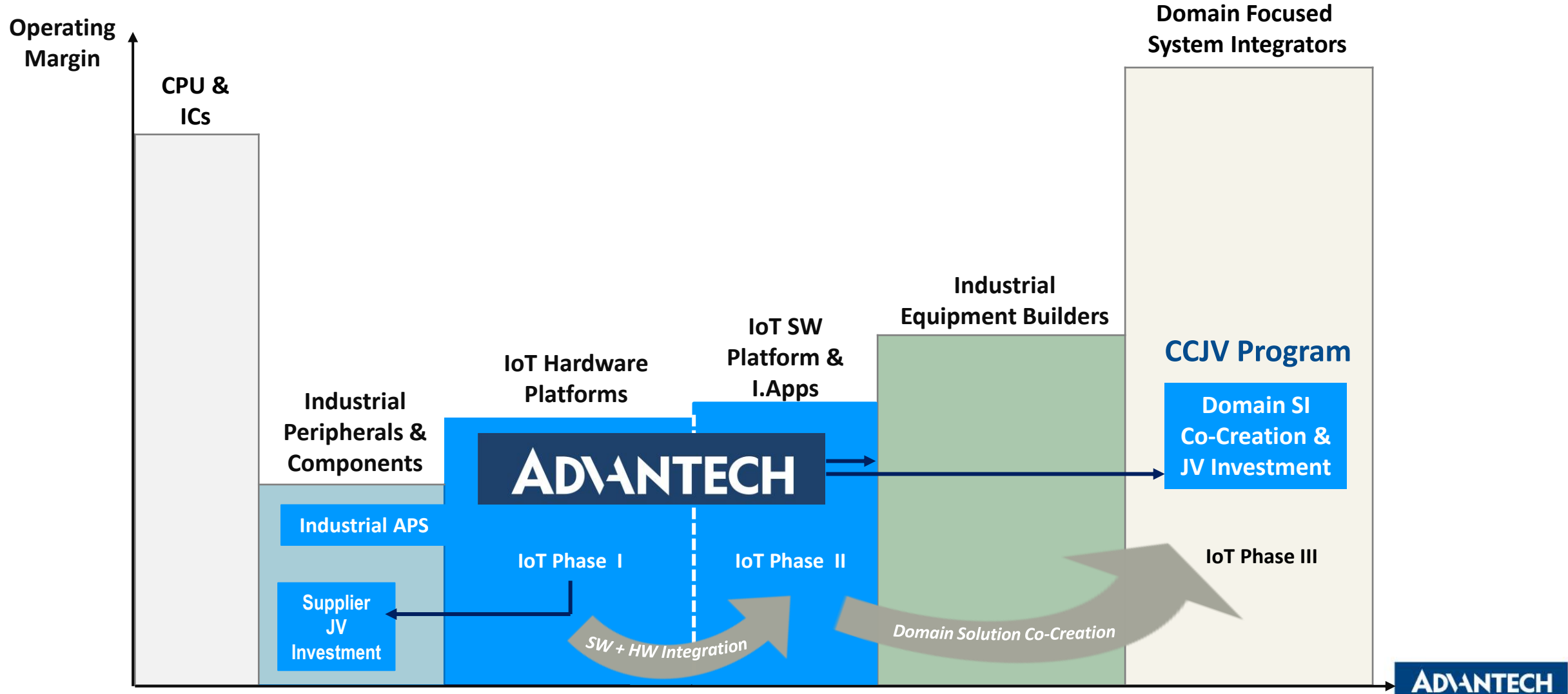
Vision of WISE-Point Growth



Biz Model of WISE-PaaS by The Next 5 Years



Future Profit Zone Strategies for Advantech in the Industrial AIoT Value Chain



Paving the Way for IIoT Business Opportunities



> 50B connected **IoT devices**, or things, generating 80 zettabytes (ZB) of data in 2025.



AI in manufacturing market estimated to be valued at \$ 17.2 billion by 2025, at CAGR of 49.5%.



5G will contribute \$2Tr+ to the global economy between 2019-2035, 35% will go to the manufacturing and utilities sector.

Empowering AI Services with Edge-to-Cloud Solutions



Embedded IoT Wireless Connectivity Solutions



Transportation



AGV



Medical



Smart Lighting



Bridge



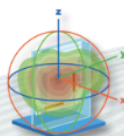
Construction



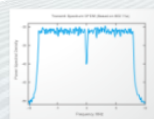
Aquaculture



Logistics



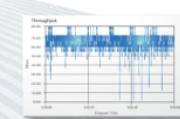
Optical Antenna Design



RF Certification

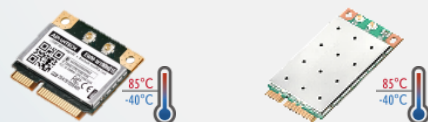


Software Integration



System Performance Tuning

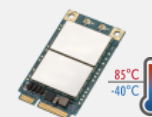
Wireless Design –in Services



Industry-Grade WiFi-5 Module



Industry-Grade
GPS + G-sensor Module



Industry-Grade
Cellular Module



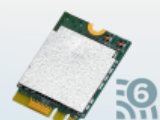
New M.2 3052
Sub-6G Module



Mini PCI-e Module



WiFi-5 Module



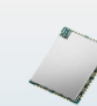
WiFi-6 Module



Industry-Grade
GPS Module



4G LTE Module



Sensor Node Module



Wireless IoT Gateway &
Sensor Node

Embedded Wireless Module

IoT Solution

Edge Computing and Intelligence Solutions

ADVANTECH WISE-PaaS

AIoT Solutions & Marketplace

Multi-Cloud Interoperability &
Application Services



Equipment
Mgmt.



Asset
Mgmt.



Face ID
Recognition



License Plate
Recognition



Edge.SRP



DeviceOn.App



3rd Party App



m2.com

Wireless Gateways



Embedded Computers



OPC UA

Edge Intelligence Servers



Digital Signage Players



AI Inference Systems



CO2 / Temp / Vibration / pH Sensors



Machines / Manufacturing / KIOSK



Air Compressor / Energy Storage / Robotic



Display / Signage



Camera

Allied Industrial Modular - Linux & Android Services

AIM-Linux & AIM-Android					
App Add-Ons & SDKs	Launcher <ul style="list-style-type: none"> • Quick Boot • Boot Logo • Status Bar • Navigation Bar 	Protocol <ul style="list-style-type: none"> • CANopen • J1708 • J1939 • MODBUS • 1-Wire 	Diagnostic <ul style="list-style-type: none"> • RF Diagnostic • Connection Diagnostic • System Diagnostic 	Management <ul style="list-style-type: none"> • SNMP • Multi-Screen Control • Resource Mgmt • Applications Mgmt 	Security <ul style="list-style-type: none"> • Secure Boot • License Management • Lock Device • Secure On-device Data
	Distribution <ul style="list-style-type: none"> • Yocto • Realtime • Debian • Ubuntu 	DevelopSDK <ul style="list-style-type: none"> • Qt • Python • Java • HTML5 	Maintenance <ul style="list-style-type: none"> • OTA • Remote Desktop • App Management 	Control <ul style="list-style-type: none"> • Device Control • System Control • Extension Port Access • Extension Modules Access 	Edge AI <ul style="list-style-type: none"> • HD PMQ • Pre-trained Models • Edge AI APP
Unified Embedded Platforms	Unified Core	Industrial I/O Drivers	Performance Optimization	Peripheral Integration	



Modularized Framework

- Efficient Resource Allocation
- Unified Core Structure
- Easy Migration



Value-Added Industrial App & SDK

- Accelerated Development
- High Efficient Library
- Comprehensive Documentation



Longevity BSP Maintenance

- Reliable Foundation
- LTS Kernel Selected
- Planned Roadmap and Validation



Development Documentation

<http://ess-wiki.advantech.com.tw/view/RISC>



TEXAS INSTRUMENTS

ADVANTECH


WISE-STACK - the Edge Intelligence Private Cloud



- Privacy
- Continuous Operation
- Multi-tenancy Support
- Easy expansion
- Enable IoT Solution
- Cost Effective

Micro-services   Knative

Container  **kubernetes**

Hardware Resource Management  **Bigstack**

Software Defined Infrastructure

WISE-STACK

WISE-STACK-200

On-premises Date Platform

- Operation Management
- 2D Dashboard
- Equipment & Device Management

WISE-STACK-300


CPU-based All with 3D Visualization

- Operation Management
- 3D Dashboard
- Equipment & Device Management
- CPU-Based AI Framework Service


WISE-STACK-600

CPU Resource Management

- Operation Management
- 3D Dashboard
- Equipment & Device Management
- CPU-Based AI Framework Service
- AI Framework Service with CPU Resource Management


All-in-one Nodes x 3
SKY-7221

+


Controller Nodes x 3
SKY-8101

+


HCI Nodes x 3
SKY-7221


AI Node x 1
SKY-6400

Green Power
Wind Turbine

Atmosphere Light

Surveillance Camera

Air Quality Detector

WiFi Hot Spot

Audio Broadcast

E-paper or LCD Display

User Interface
AMIS-100

URI-700

iStation for Smart Campus

智慧園區多功能基站



Modular Design

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Advantech's Key Milestones Across Two Decades (2010-2030)

Enabling an Intelligent Planet
as Corporate Vision

2010

2013

Reach US \$ 1B

Introduce WISE-PaaS

2017

2018

Kickoff Phase II Biz

LEAP Challenge
for Reaching US\$ 2B

2020

2020

Announce
WISE-PaaS Marketplace 2.0
for De-Coupled I.App & Edge SRP

Next Stage Globalization:
Globally Integrated Regional Competence (GIRC)

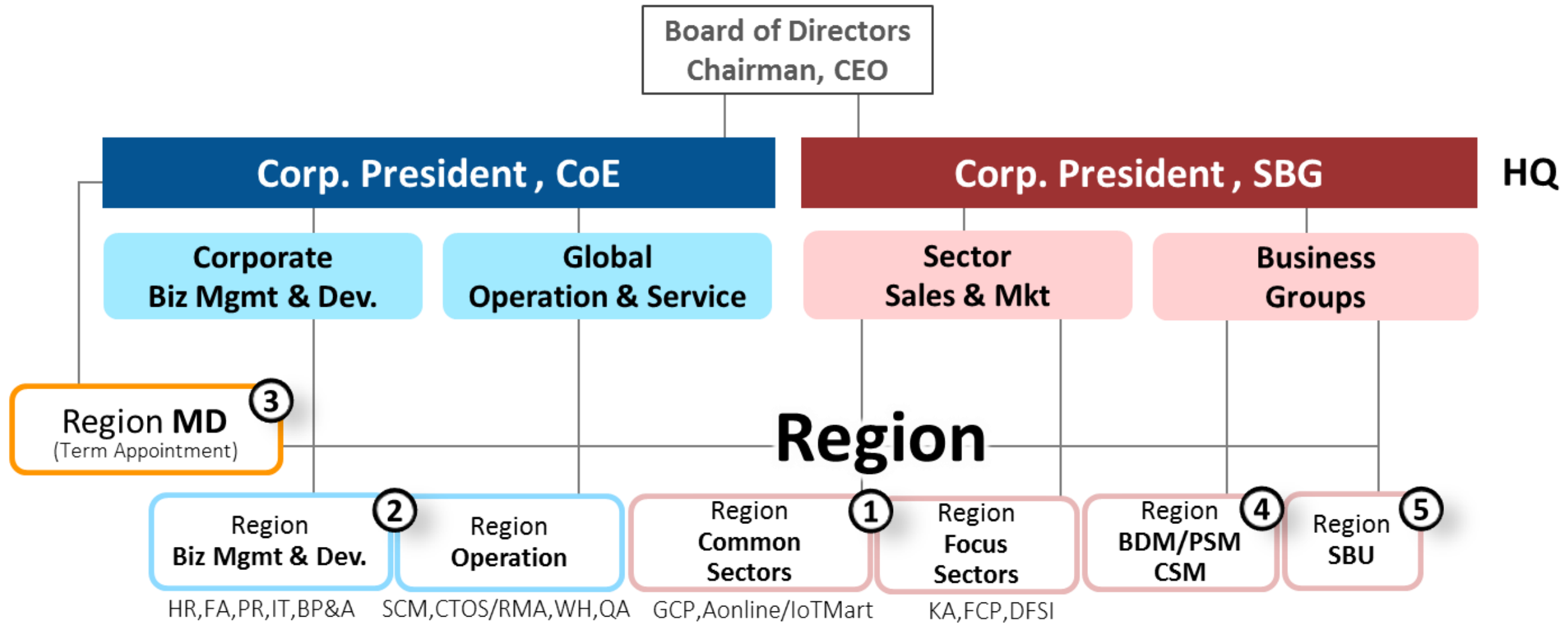
Phase III:
Co-Creation Joint Ventures with AIoT DFSIs

2025

Target to Reach 1000+ WISE-PaaS VIPs,
1000+ I.Apps on Marketplace

2030

Advantech GIRC Organization



US\$2B @ 2020

LEAP Challenge

15% Year on Year Growth

*Award &
Celebration*



ADVANTECH

Co-Creating the Future of the IoT World

