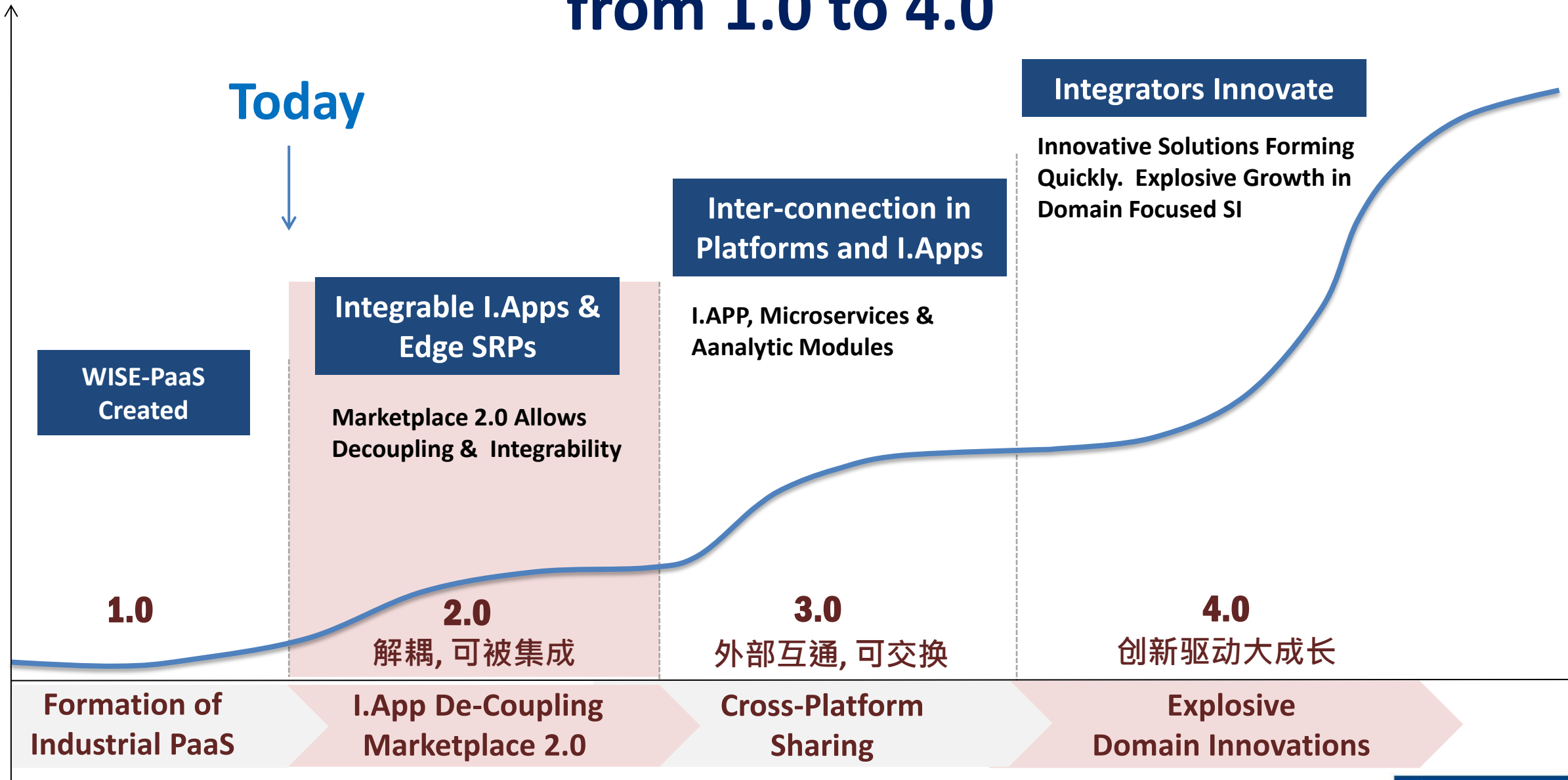


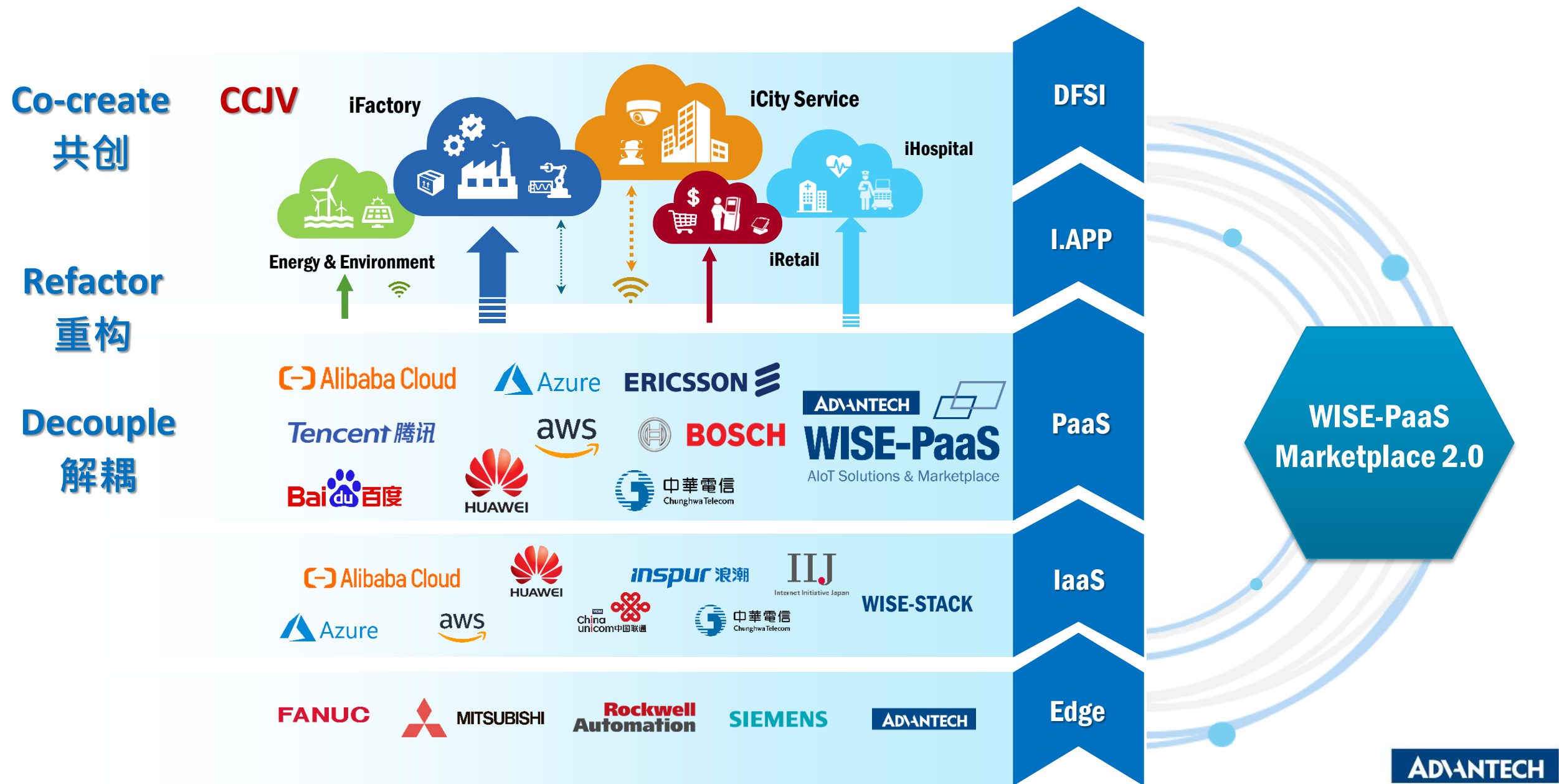
Allan Yang, Ph.D.
CTO, Advantech
Dec. 12th, 2019



Industrial IoT Platform Evolution Path from 1.0 to 4.0



AIoT Ecosystem and WISE-PaaS Marketplace 2.0



I.APP & Solutions Portfolio on Marketplace 2.0

I.APP:

Product Family	Product Name	PM	Marketing
Android DM	Android DM	Jianfeng.Dai	
iFactory	Mobile OEE	Phoenix	
iFactory	Mobile FEMS	Phoenix	
iHospital	iOutpatient >> Hospital Queuing Service	HS.Su	Claire.Tai
Stratus	Stratus	Albert.Wang	
VisionNavi	VisionNavi	Neil.Chen	
WebAccess/HMI	WebAccess/HMI	Wilson.Dai	Gennie.Chao
WebAccess/SCADA	WebAccess/SCADA	Jacksc.Yang	Gennie.Chao
WISE-PaaS WISE.M+	WISE-PaaS WISE.M+	LF.Chang	Gennie.Chao
WISE-PaaS/AFS	AFS.AOI	Jamie.su	Gail.Chen
WISE-PaaS/AFS	AFS.PQA	Michael.Chuang	Gail.Chen
WISE-PaaS/AFS	AFS.PHM	Ali.Chang	Gail.Chen
WISE-PaaS/AFS	AFS	Jamie.su	Gail.Chen
WISE-PaaS/APM	APM.IBMS	Ben.Shiue	Gail.Chen
WISE-PaaS/APM	APM Stnadard	Jamie.su	Gail.Chen
WISE-PaaS/APM	APM Advanced	Jamie.su	Gail.Chen
WISE-PaaS/APM	APM.CNC	Ben.Shiue	Gail.Chen
WISE-PaaS/APM	APM Managed	Jamie.su	Gail.Chen
WISE-PaaS/Dashboard	Dashboard	Tingting.Ning	
WISE-PaaS/Dashboard	Dashboard Mobile	Tingting.Ning	
WISE-PaaS/DeviceOn	WISE-PaaS/DeviceOn	Rison.Yeh	Lina.Liu
WISE-PaaS/EdgeLink	WISE-PaaS/EdgeLink	LF.Chang	Gennie.Chao
WISE-PaaS/EnSaaS	WISE-PaaS/EnSaaS	Kang.Ning	Gail.Chen
WISE-PaaS/LwM2M	WISE-PaaS/LwM2M	Oz.Chen	Gail.Chen
WISE-PaaS/Notification	WISE-PaaS/Notification	StevenHY.Li	Gail.Chen
WISE-PaaS/OTA	WISE-PaaS/OTA	Wei.Gang	Gail.Chen
WISE-PaaS/OTA	WISE-PaaS/OTA	Weigan	
WISE-PaaS/RTLS	OR	Ping.Huang	Fion.Liu
WISE-PaaS/RTLS	iWard	Ping.Huang	Fion.Liu
WISE-PaaS/SaaS Composer	WISE-PaaS/SaaS Composer	Ray.Lee	Gail.Chen
WISE-PaaS/SCADA	WISE-PaaS/SCADA	StevenHY.Li	Gail.Chen
WISE-PaaS/Video Services	WISE-PaaS/Video Services	Ray.Lee	Gail.Chen
WISE-PaaS/VideoSense	SignageCMS	HS.Su	Fion.Liu
WISE-PaaS/VideoSense	Store BI >> People Counting	HS.Su	Fion.Liu
WISE-PaaS/VideoSense	Facial Recognition	HS.Su	Fion.Liu

Solutions:

Product Family	Product Name	PM	Marketing
E&E	水處理	LF.Chang	Gennie.Chao
E&E	綜合能源	LF.Chang	Gennie.Chao
iCityServices	Monitoring & Security	HS.Su	Grace.Liu
iCityServices	Visitor Interactive Service	HS.Su	Grace.Liu
iCityServices	Smart Command Center	HS.Su	Grace.Liu
iFactory	扣件雲	Kai.Chem	Sherry.Lin
iFactory	Electronics	Willie Lin	Sherry.Lin
iHospital	Intelligent Outpatient	HS.Su	Claire.Tai
iHospital	Intelligent Ward	HS.Su	Claire.Tai
iHospital	Hospital Management	HS.Su	Claire.Tai
iRetail	Store Analytics	HS.Su	Grace.Liu
iRetail	Customer Engaement	HS.Su	Grace.Liu
iRetail	Store Management	HS.Su	Grace.Liu
iBuilding	Intelligent Building Management	Jichao	Gail Chen
iMachine	Intelligent CNC Management	Jichao	Gail Chen

AI Models:

Product Family	Product Name	PM	Marketing
AI	Process Quality Prediction Analysis	Michael.Chuang	Gail.Chen
AI	PQA for iFactory, PQA pretrained model	Michael.Chuang	Gail.Chen
AI	Automatic optical inspection	Paul.Kuo	Gail.Chen
AI	AOI pretrained model	Paul.Kuo	Gail.Chen

Consulting Services:

Product Family	Product Name	PM	Marketing
Solution Consult	DFSI	DFSI	DFSI
APM&AFS Consult	IoT.SENSE SW Enabling	Wang.Yu	Gail.Chen

I.Apps Portfolio on WISE-PaaS Marketplace 2.0

	iFactory	E&E	iCity Services	iRetail	iHospital
Domain-Focused Apps 行業專用	<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>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>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>iFactory</div> <div>Work Order</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>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>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>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>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>CDT</div> <div>Crowd Detection Dashboard</div> </div> <div> <div>iCity</div> <div>FAT</div> <div>Facial Attendance</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>iCity</div> <div>Customer Satisfaction</div> <div>Customer Satisfaction</div> </div> <div> <div>iCity</div> <div>VTM</div> <div>Visitor Management</div> </div> <div> <div>iCity</div> <div>Queue Engine</div> <div>Queueing Engine</div> </div> <div> <div>iCity</div> <div>ISM</div> <div>Interactive Sensor Manager</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>iRetail</div> <div>Store Prediction</div> <div>Store Prediction</div> </div> <div> <div>iRetail</div> <div>Smart Menu Board Control</div> <div>Smart Menu Board Control</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>iRetail</div> <div>Customer Profile Dashboard</div> <div>Customer Profile 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>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>iHospital</div> <div>ER Management</div> <div>ER Management</div> </div> <div> <div>iHospital</div> <div>ICU Management</div> <div>ICU Management</div> </div> <div> <div>iHospital</div> <div>PCM</div> <div>Patient Care Management</div> </div> <div> <div>iHospital</div> <div>IPBI</div> <div>Inpatient BI</div> </div>
Industry Apps 產業通用	<div> <div>iFactory</div> <div>OEE</div> <div>Environment and Waste Monitoring</div> </div> <div> <div>iFactory</div> <div>Factory Energy Management</div> <div>Factory Energy Management</div> </div> <div> <div>iFactory</div> <div>Environment and Waste Monitoring</div> <div>Environment and Waste Monitoring</div> </div> <div> <div>iFactory</div> <div>FAPM</div> <div>Factory Asset Management Mgt.</div> </div> <div> <div>iFactory</div> <div>OEE APM</div> <div>APM OEE</div> </div> <div> <div>iFactory</div> <div>Mobile OEE</div> <div>Mobile OEE</div> </div> <div> <div>iFactory</div> <div>Mobile FEMS</div> <div>Mobile FEMS</div> </div> <div> <div>iFactory</div> <div>ALM</div> <div>ALM</div> </div> <div> <div>iFactory</div> <div>EQM</div> <div>Equipment Management</div> </div> <div> <div>iFactory</div> <div>CNC APM</div> <div>APM CNC</div> </div>	<div> <div>E&E</div> <div>Failure Prediction & Analysis</div> </div> <div> <div>E&E</div> <div>Domain Application Scenario Configuration</div> </div> <div> <div>E&E</div> <div>Real-Time Equipment Monitoring</div> </div> <div> <div>E&E</div> <div>Performance & Statistics Analysis</div> </div> <div> <div>E&E</div> <div>Equipment Digital Twin Object Configuration</div> </div> <div> <div>E&E</div> <div>Alarm & Notifications</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>iCity</div> <div>Air Quality Management</div> <div>Air Quality Management</div> </div> <div> <div>iCity</div> <div>CCM APM</div> <div>APM.CCM</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>Air Quality Management</div> </div>
Common Apps 中台	<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>VPN</div> <div>WISE-PaaS/VPN</div> </div> <div> <div>Command Center</div> <div>WISE-PaaS/ Command Center</div> </div> <div> <div>SCADA</div> <div>WISE-PaaS/ SCADA</div> </div> <div> <div>WISE.M+</div> <div>WISE-PaaS/ WISE.M+</div> </div> <div> <div>Video Service</div> <div>WISE-PaaS/ Video Service</div> </div> <div> <div>Notification</div> <div>WISE-PaaS/ Notification</div> </div> <div> <div>APM</div> <div>WISE-PaaS/ APM</div> </div> <div> <div>Android DM</div> <div>Android DM</div> </div> <div> <div>AFS</div> <div>WISE-PaaS/ AFS</div> </div> <div> <div>PQA AFS</div> <div>WISE-PaaS/ AFS PQA</div> </div> <div> <div>AOI AFS</div> <div>WISE-PaaS/ AFS AOI</div> </div>				
Edge.SRPs 邊緣功能模組	<div> <div>Edge.SRP EdgeLink</div> <div>Edge.SRP/ EdgeLink</div> </div> <div> <div>Edge.SRP AOI</div> <div>Edge.SRP/ AOI</div> </div> <div> <div>Edge.SRP Android DM</div> <div>Android DM</div> </div> <div> <div>Edge.SRP ME-Cell</div> <div>ME-Cell</div> </div> <div> <div>Edge.SRP ME-Line</div> <div>ME-Line</div> </div> <div> <div>Edge.SRP Signage CMS</div> <div>Edge.SRP/ SignageCMS</div> </div> <div> <div>Edge.SRP Intelligent NVR</div> <div>Edge.SRP/ Intelligent NVR</div> </div> <div> <div>Edge.SRP People Counting</div> <div>Edge.SRP/ People Counting</div> </div> <div> <div>Edge.SRP Facial Recognition</div> <div>Edge.SRP/ Facial Recognition</div> </div> <div> <div>DeviceOn OTA</div> <div>DeviceOn/ OTA</div> </div> <div> <div>DeviceOn E2I</div> <div>DeviceOn/ E2I</div> </div> <div> <div>DeviceOn ePaper</div> <div>DeviceOn/ ePaper</div> </div> <div> <div>DeviceOn FaceView</div> <div>DeviceOn/ FaceView</div> </div> <div> <div>DeviceOn DM</div> <div>DeviceOn/ Device Management</div> </div> <div> <div>DeviceOn Security</div> <div>DeviceOn/ Security</div> </div> <div> <div>DeviceOn Data Management</div> <div>DeviceOn/ Data Management</div> </div> <div> <div>DeviceOn Connectivity Service</div> <div>DeviceOn/ Connectivity Service</div> </div> <div> <div>DeviceOn 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 SCADA</div> <div>WebAccess/ SCADA</div> </div> <div> <div>WebAccess DMP</div> <div>WebAccess/ DMP</div> </div> <div> <div>WebAccess CNC</div> <div>WebAccess/ CNC</div> </div> <div> <div>WebAccess NMS</div> <div>WebAccess/ NMS</div> </div> <div> <div>WebAccess Wizzard</div> <div>WebAccess/ Wizzard</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</div> <div>Parking Telecom Labs</div> </div> <div> <div>aws</div> <div>AWS</div> </div> <div> <div>IdeaCare</div> <div>IdeaCare</div> </div> <div> <div>Intelli-Signage</div> <div>Intelli-Signage</div> </div> <div> <div>ISMS</div> <div>ISMS</div> </div> <div> <div>mbed Device Connector</div> <div>mbed Device Connector</div> </div> <div> <div>OpenR8 Professional Edition</div> <div>OpenR8 Professional Edition</div> </div> <div> <div>Tiandi hexing</div> <div>Tiandi hexing</div> </div> <div> <div>VNC Connect IoT</div> <div>VNC Connect IoT</div> </div>				

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WISE-PaaS/LwM2M

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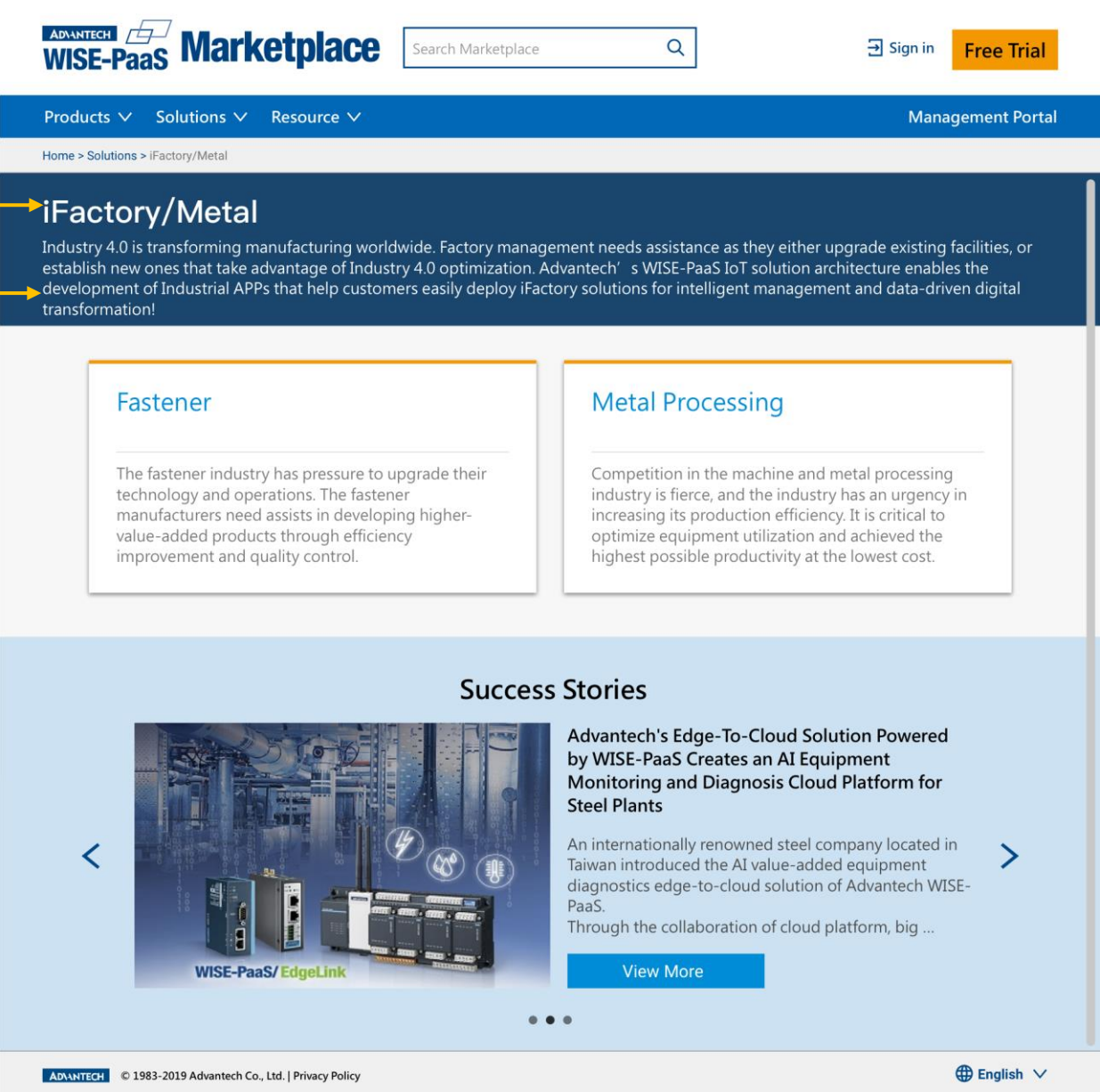
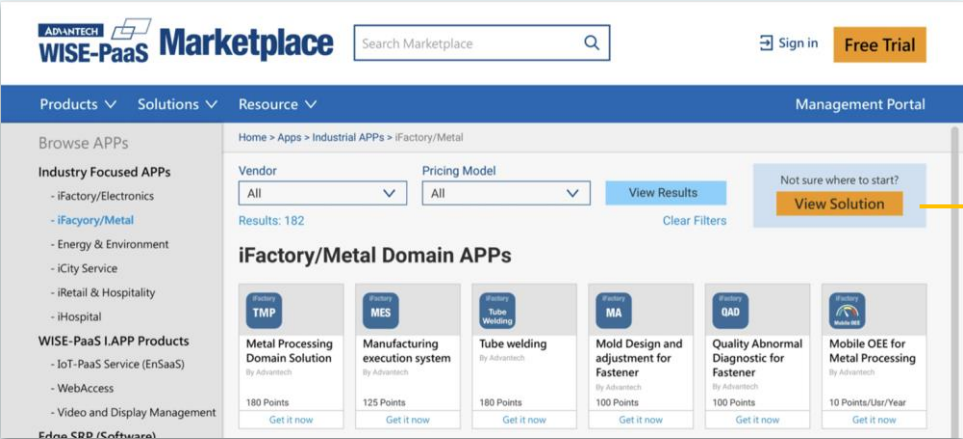
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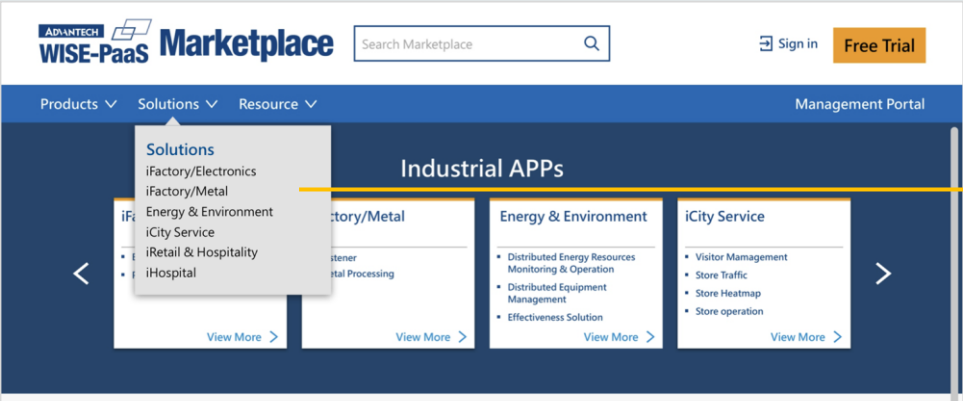


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Fastener

Advantech provides digital transformation solutions to fastener industry with IoT, Cloud and AI, including: visualizing equipment data via connected devices such as head forming with the edge intelligence; also providing solutions to production, such as Mold Design and adjustment for Fastener; Quality Anomaly Diagnostic for fastener, allowing customers to further improve production quality and capacities, then help fasteners upgrade their industry and move to next new level.

Featured Solutions

Statistical Process Control and Yield Management	Monitoring Technology for Forming Process
Optical Guiding System for Mold Adjustment	Monitoring Technology for Molds
Prognostics for Machine Failure	Forming Defect and Failure Prediction

Especially for the screw and nuts, the on-site mold adjustment technician can carry out the position adjustment of the fastener forming machine through the human-machine interface guiding program, and can combine the optical testing equipment or the existing general formed products then adjust the position of the mold base to make the geometric parameters such as the eccentricity, the length of the rod and the thickness of the formed fastener product into the production specifications.

- Spend lots of time on adjustment and trail for mold
- Most mold designs rely on masters.

Implementation

Cloud Services

Cloud-based services are designed and developed for managing full cycle of the visualized data to facilitate end-user's production operations and behaviors.

- Mold Adjustment Guiding
By Connected / Wireless
- Monitoring Technology for Molds
By Connected / IIoT
- Fault Detection
By Connected / IIoT

Adjusts the position of the fastener forming machine through the human-machine interface guiding application

Proactively analyze the trend to discover and alert to potential shutdown features

Proactively detects any faults to prevent any possible loss. Includes alert and notification

Optical Guiding System for Mold Adjustment

We provide flexible plans for the solution package. Click the GET button below to optimize the package according to your needs.

[Get](#)

Data Acquisition

Fundamental software for connecting connected devices. Data collected from field devices can be processed to cloud.

An 100% web-based SCADA software allowing users to monitor and control their projects simply through a web browser.

Field Devices

Fundamental hardware for connecting and managing devices. Data collected from field devices can be processed to cloud via data acquisition services.

Its modular design features optimized I/O and offers three different configurations. It also supports Advantech's iDiox technology via a second expansion stack.

< 1 / 3 >

Consulting Service

Consulting service is recommended for this solution to ensure you can enjoy smooth installation and its performance.

DotZero - provides professional and experienced consulting services in Fastener industry

Success Stories

The customer is a large manufacturer with hundreds of threading equipment in the fastener industry. With more and more equipment, it is more and more difficult to rely on manpower to control and monitor them, except that it is hard to know the operation status and production of each machine in time. Beyond the situation, labor costs and human error are also a major problem.

Advantech provides client a visualization solution that connects edge devices to each fastener equipment. After collecting the data from their Advantech visualizes the data by existing module, and show the current plant status, production line conditions, and operating status of each device with different easy understanding graphs in few days.

Solutions in the Focused Industry Segments

Our solutions target at specific **pain points** in the focused industry segments

Solutions explained with **solution architecture** and field site **scenarios**, manifesting what pain points the solution targets at.

The screenshot displays the Advantech WISE-PaaS Marketplace 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 header shows the breadcrumb 'Home > Solutions > iFactory/Metal > Fastener'. The 'Fastener' section describes digital transformation solutions using IoT, Cloud, and AI. Below this, 'Featured Solutions' are listed in a grid: Statistical Process Control and Yield Management, Monitoring Technology for Forming Process, Optical Guiding System for Mold Adjustment, Monitoring Technology for Molds, Prognostics for Machine Failure, and Forming Defect and Failure Prediction. A detailed 'Solution Architecture' section follows, featuring a diagram of the fastener production process (Product Design, Heading, Threading, Logistics, Heat Treatment, Surface Finish, Inspection and Packaging) and a list of services: Cloud Services (Mold Adjustment Guiding, Monitoring Technology for Molds, Drilling Diagnostic), Data Acquisition (WebAccess/SCADA), and Field Devices (ECU-1051). A text block explains the on-site mold adjustment process and its challenges. The bottom section, 'Implementation', shows the 'Cloud Services' and 'Optical Guiding System' components.

ADVANTECH WISE-PaaS Marketplace

Search Marketplace

Sign in Free Trial

Products Solutions Resource Management Portal

Home > Solutions > iFactory/Metal > Fastener

Fastener

Advantech provides digital transformation solutions to fastener industry with IoT, Cloud and AI, including: visualizing equipment data via connecting the devices such as head, forming with the edge intelligences; also providing solutions to production, such as Mold Design and adjustment for Fastener, Quality Abnormal Diagnostic for Fastener, allowing customers to further improve production quality and capacities, then help fasteners upgrade their industry and move to next new level.

Featured Solutions

- Statistical Process Control and Yield Management
- Monitoring Technology for Forming Process
- Optical Guiding System for Mold Adjustment
- Monitoring Technology for Molds
- Prognostics for Machine Failure
- Forming Defect and Failure Prediction

Especially for the screw and nuts, the on-site mold adjustment technicians can carry out the position adjustment of the fastener forming machine through the human-machine interface guiding program, and can combine the optical testing equipment or the existing precision measuring method to obtain the size of each part of formed products, then adjust the position of the mold base to make the geometric parameters such as the eccentricity, the length of the rod and the thickness of the formed fastener product into the production specifications.

Solution Architecture

- Cloud Services**
 - Mold Adjustment Guiding
 - Monitoring Technology for Molds
 - Drilling Diagnostic
- Data Acquisition**
 - WebAccess/SCADA
- Field Devices**
 - ECU-1051

1. Spend lots of time on adjustment and trial for mold
2. Most mold designs rely on masters.

Implementation

- Cloud Services**
 - iFactory
 - Adjusts the position of the fastener
 - Optical Guiding System

Products and services required for implementing the solution:

Grouped by:

- Cloud Services,
- Data Acquisition,
- Field Devices
- Consulting Services

Products and services required for implementing the solution from edge to cloud:


Grouped by:

- Cloud Services,
- Data Acquisition,
- Field Devices,
- Consulting Services

Implementation


Cloud Services

Cloud-based services are designed and developed for making full use of the visualized data to facilitate end-users' production operations and behaviors.




Mold Adjustment Guiding
By Advantech
1.5WP/hour

Adjusts the position of the fastener forming machine through the human-machine interface guiding application



Monitoring Technology for Molds
By Advantech
19.4WP/month

Proactively analyze the trend to discover and alert to potential shutdown features




Fault Detection
By Advantech
19.4WP/month

Proactively detects any faults to prevent any possible loss. Includes alert and notification

Data Acquisition

Fundamental software for managing connected devices. Data collected from Field devices can be processed to cloud.




WebAccess/SCADA
By Advantech
36WP

An 100% web-based SCADA software allowing users to monitor and control their projects simply through a web browser.


Field Devices

Fundamental hardware for connecting and managing devices. Data collected from field devices can be processed to cloud via data acquisition services.



UNO-2271G
By Advantech
\$430.00

Its modular design features optimized I/O and offers three different configurations. It also supports Advantech's iDoor technology via a second expansion stack.



On-site Support
By Advantech
36WP

DotZero - provides professional and experienced consulting services in Fastener industry

Optical Guiding System for Mold Adjustment:

We provide flexible plans for the solution package. Click the GET button below to customize the package according to your needs.

Get

Success Stories



The customer is a large manufacturer with hundreds of threading equipment in the fastener industry. With more and more equipment, it is more and more difficult to rely on manpower to control and monitor them, except that it is hard to know the operation status and production of each machine in time. Beyond the situation, labor costs and human error are also a major problem.

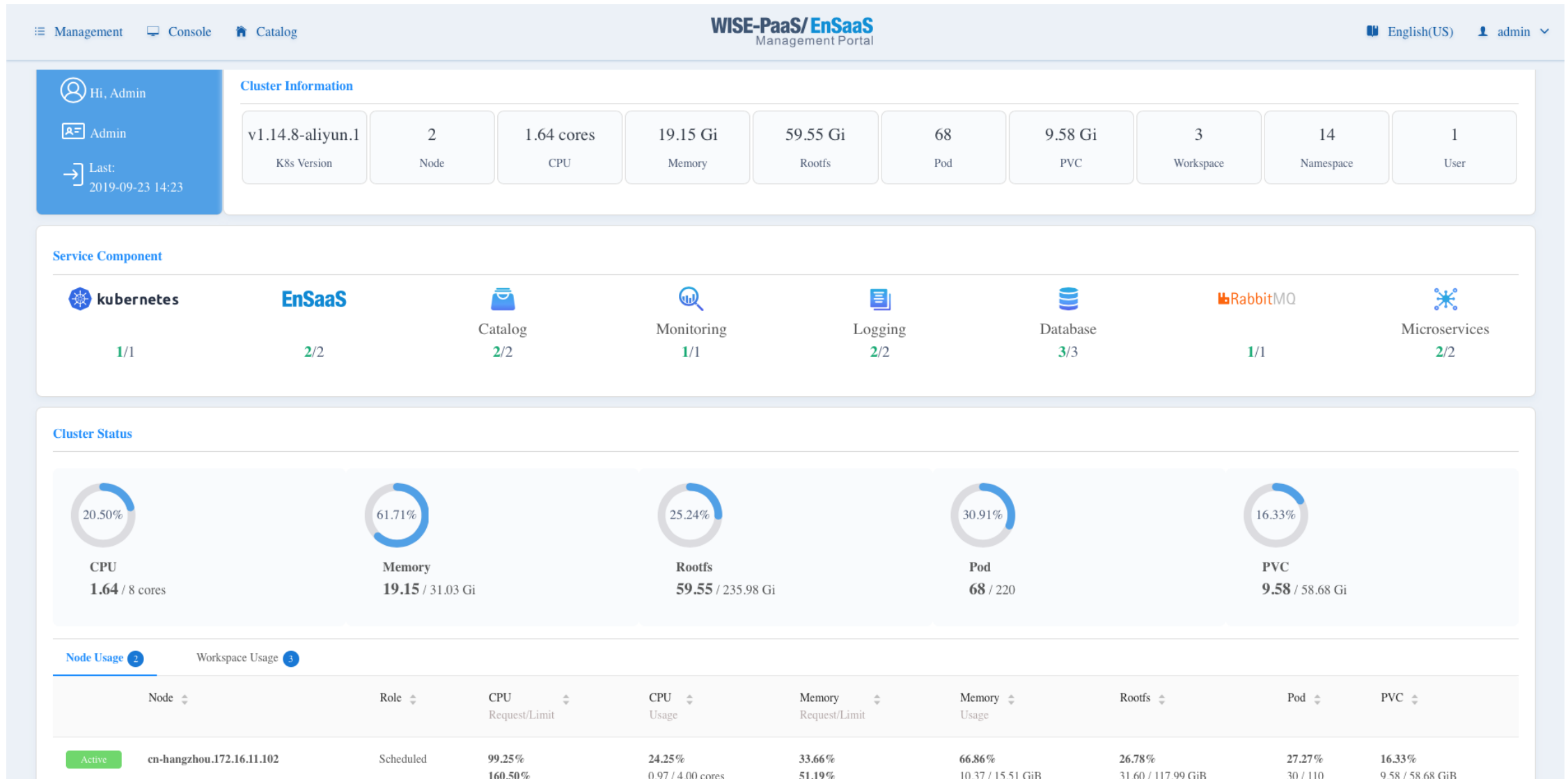
Advantech provides client a visualization solution that connects edge devices to each fastener equipment. After collecting the data from that, Advantech visualizes the data by existing module, and show the current plant status, production line conditions, and operating status of each device with different easy understanding graphs in few days

Leads customers to EnSaaS 4.0 **Management Portal** where users can customize solution packages and deployment.

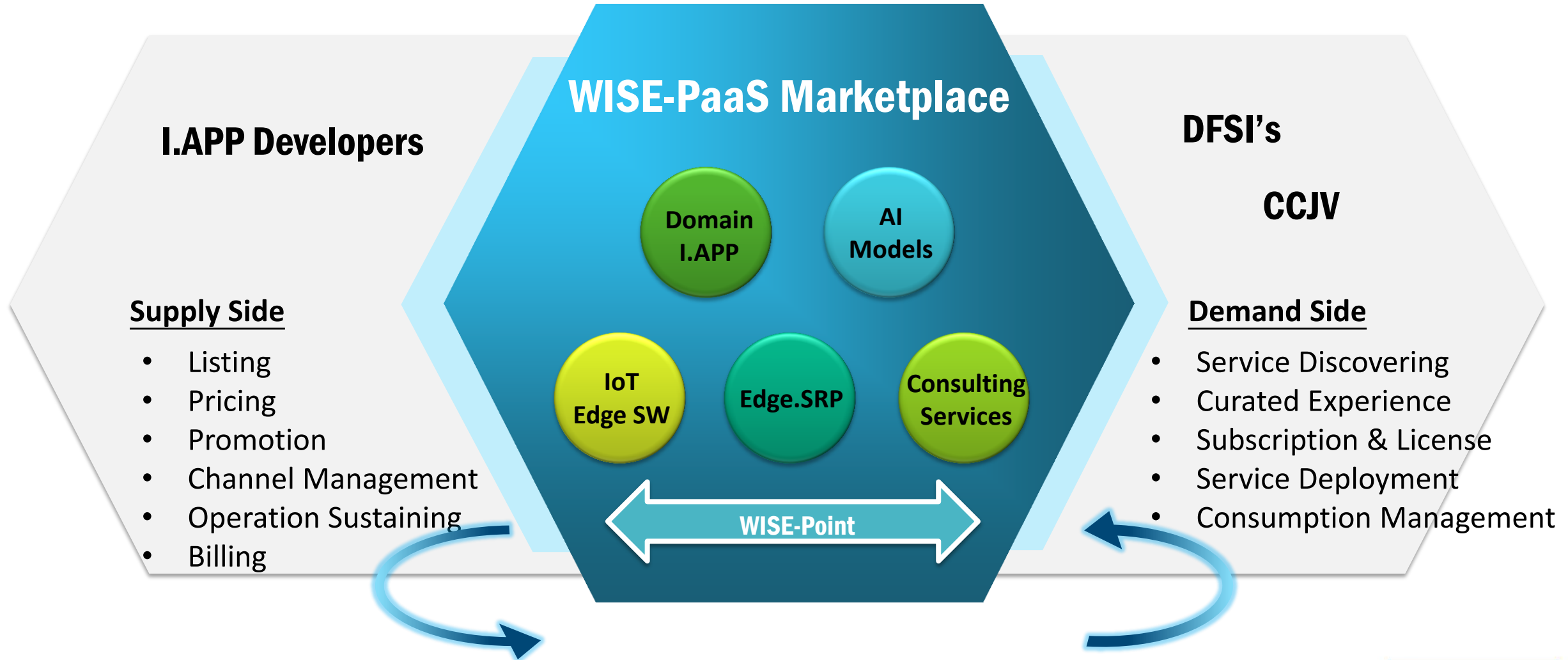
Further information available on each product pages.

WISE-PaaS/EnSaaS MP (Management Portal)

Tenants' UI/UX on Cloud Service Operation & Resource Management



WISE-PaaS Marketplace 2.0 as Network Orchestrator – Many Make, Many Sell



WISE-PaaS Application Framework Services – Low-Coding AIoT Solution Development



Fixed Assets



Mobile Assets



Site Infrastructures



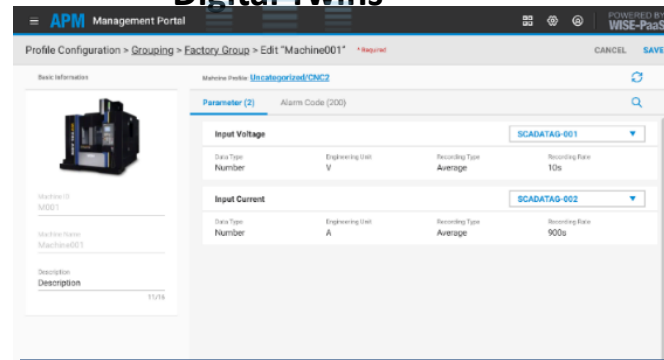
Management Staffs

Integration with
workflow IT systems

Digital Twins



Visualization



Asset Performance Mgmt.



AI Framework Service

Data
Fusion

WISE-PaaS/Dashboard
WISE-PaaS/SaaS Composer

Multiple Data Sources
2D & 3D Rendering

WISE-PaaS/APM

Asset Models
Asset Evaluation
Workflow Integration

Alarm/Trigger
OTA
Auth. Mgmt.

WISE-PaaS/AFS

Code IDE
Hyper Parameter
Data Pre-Processing

Model Management
Inference Engine Deploy
Compute Resource Mgmt.

WISE-PaaS/EnSaaS

Scalable Data Platform with Microservices Framework

WebAccess/SCADA

WISE-PaaS/WISE.M+

WISE-PaaS/DeviceOn

WISE-PaaS/VideoSense

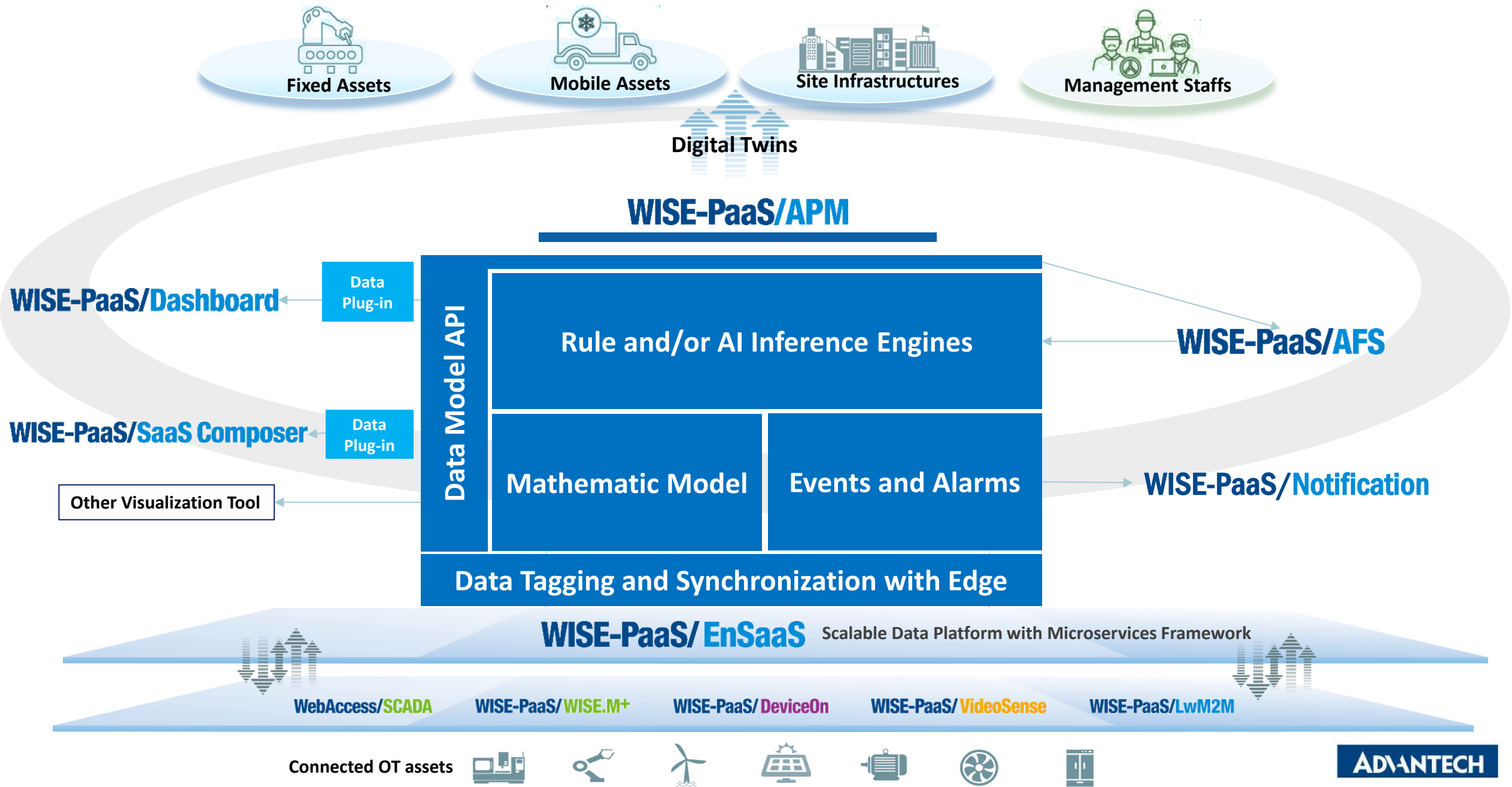
WISE-PaaS/LwM2M

Connected OT assets



ADVANTECH

WISE-PaaS/APM : Asset Performance Management

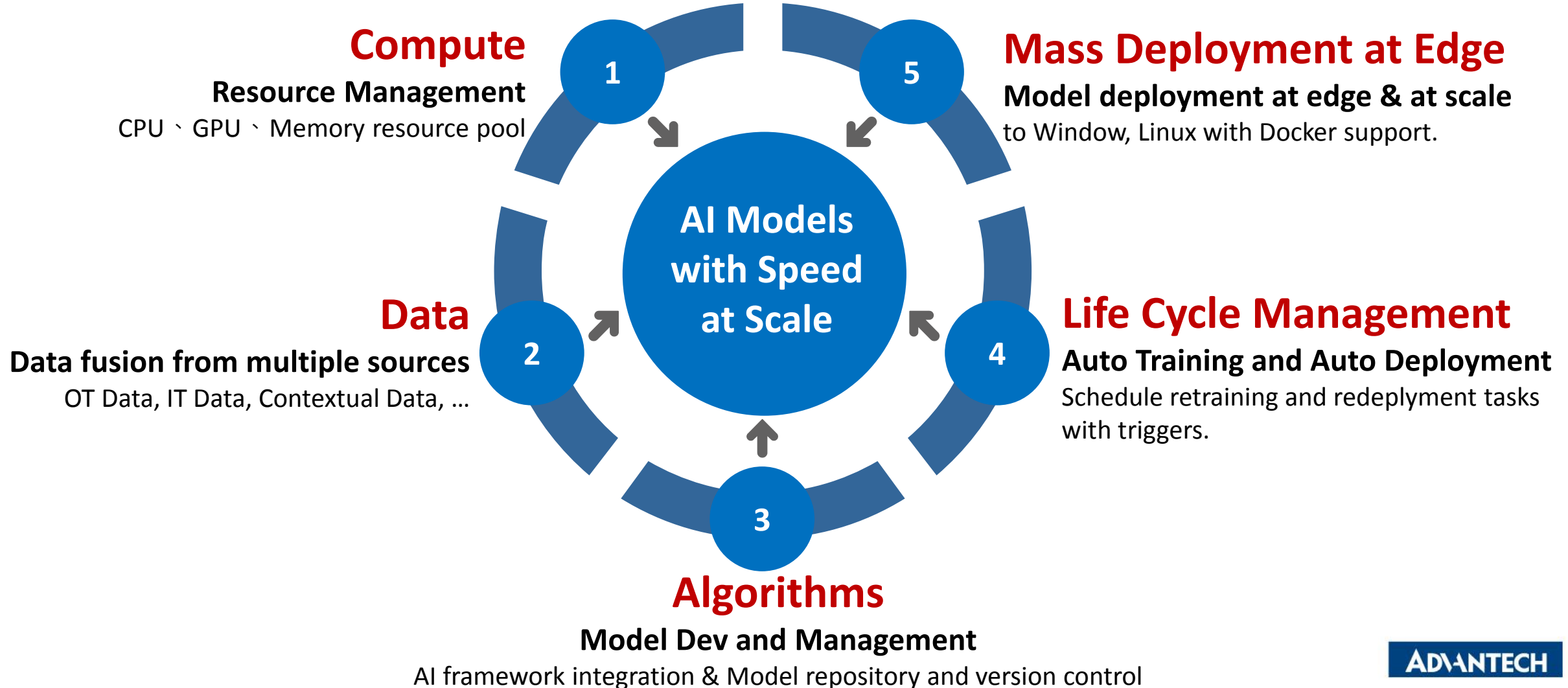


WISE-PaaS/AFS : AI Framework Service

0 to 1 : Speed up building the first working AI model, and continue to improve accuracy.

1 to N : Replicate and tune AI models to similar scenarios that require retraining.

N X M : Manage multiple AI models across entire site.



Integrating AI to Solutions with WISE-PaaS/AFS

Unified Platform for AI Models Training, Deployment and Life Cycle Management.

Smart
Retail

- Face Recognition
- & Passenger Flow Calculation

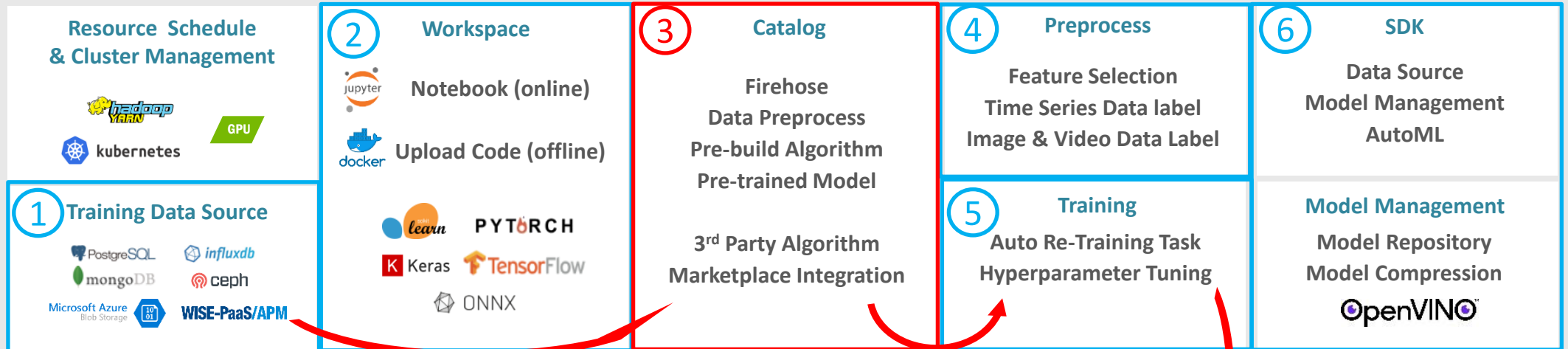
Smart
Machine

- PHM
- Motor PMS
- Predictive Cutting Edge Broken

Smart
Factory

- AOI
- Process Quality Analysis
- Inventory Forecast

Training and Model Management

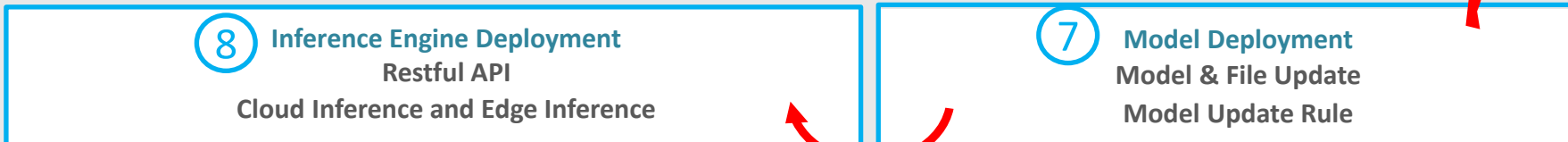


Public Clouds: Azure aws 阿里云 ...

Private Clouds: WISE-STACK openstack. vmware

Hybrid Clouds: GPU Server

Inference



Container Runtime : docker EDGEXFOUNDRY

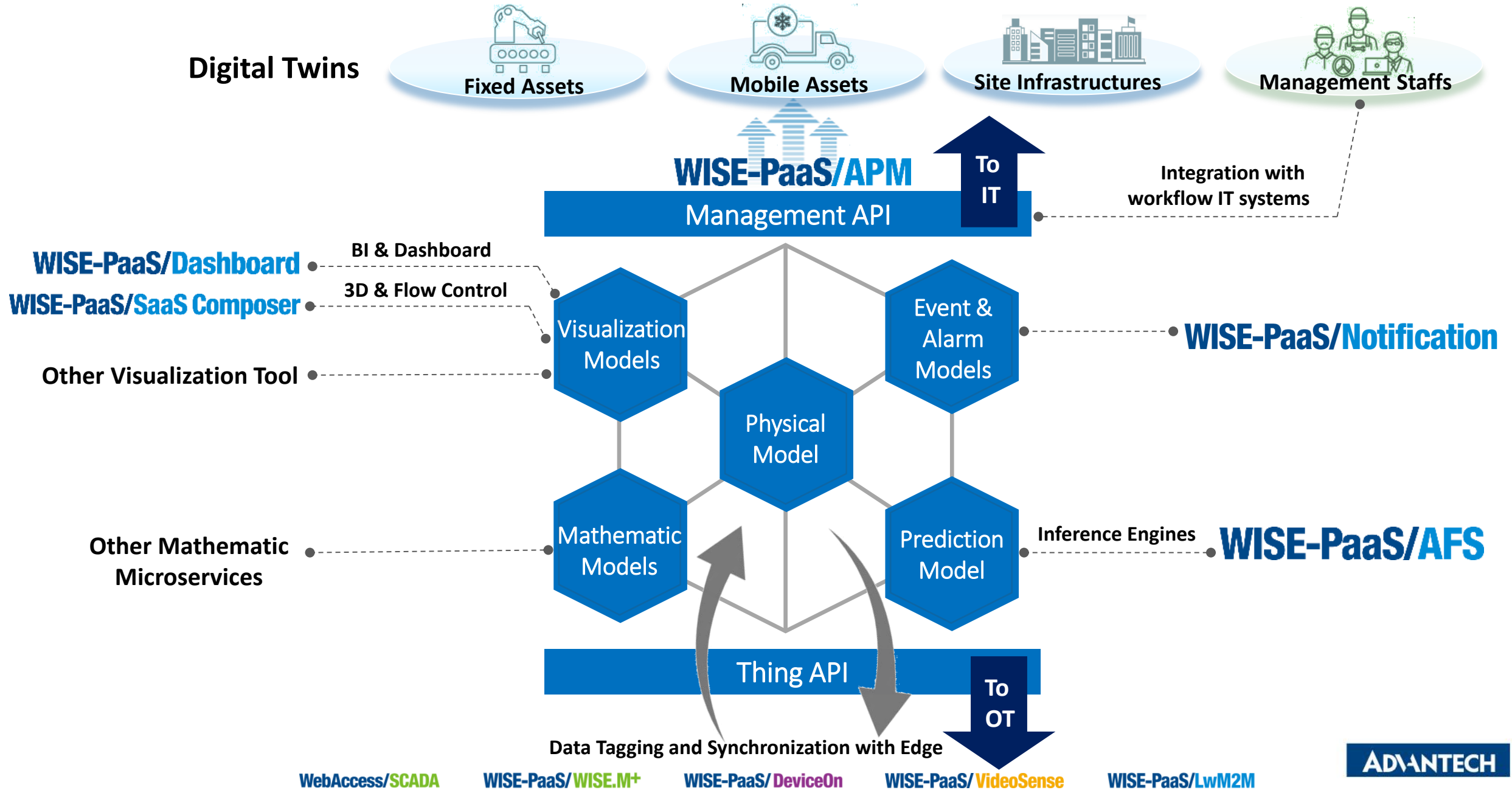
Operating System:

Windows Linux

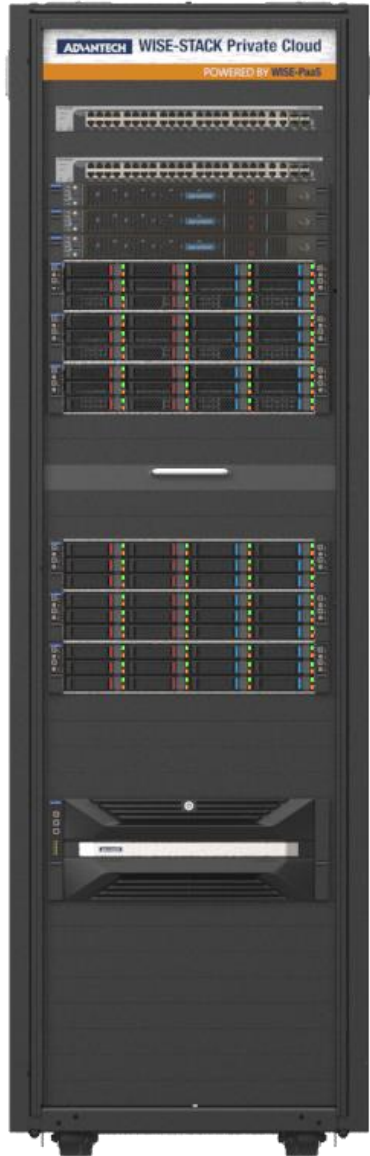
Android







WISE-PaaS/ DeviceOn
WISE-PaaS/OTA

Application Framework Services – decoupled, refactored, integrable



WISE-STACK – AIoT Edge Cloud in a Rack



	Standard Data Platform & Device Mgmt.	Advanced Std + 3D Visualization & AI	Pro Advanced + GPU Management
Model	WISE-STACK-200	WISE-STACK-300	WISE-STACK-600
Software Package**	WISE-PaaS/EnSaaS Standard: Generic PaaS + Dashboards + APM Standard	WISE-PaaS/EnSaaS Advanced: Generic PaaS + Dashboards + SaaS Composer + APM Multi-tenancy + AFS	WISE-PaaS/EnSaaS Pro: Generic PaaS + Dashboards + SaaS Composer + APM Multi-tenancy + AFS GPU
Node	 (3) All-in-one nodes SKY-7221	 (3) Controller Nodes SKY-8101  (3) HCI Nodes SKY-7221	 (3) Controller Nodes SKY-8101  (6) HCI Nodes SKY-7221  (1) AI Nodes SKY-6400

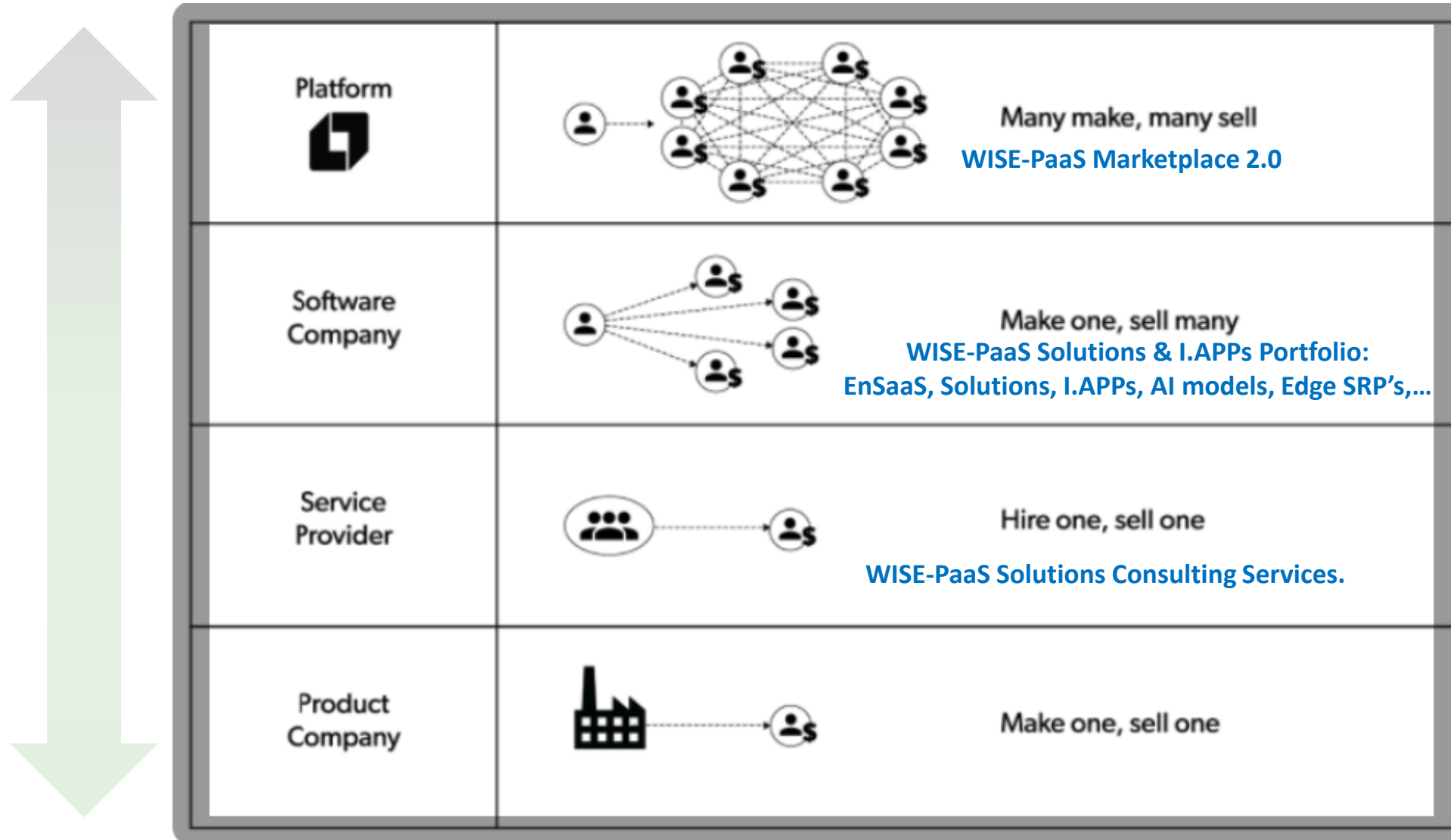
* Service Level Agreement (SLA) from 2nd year

** Annual software subscription from 2nd year

Business Scope Extends from Products to AIoT Services

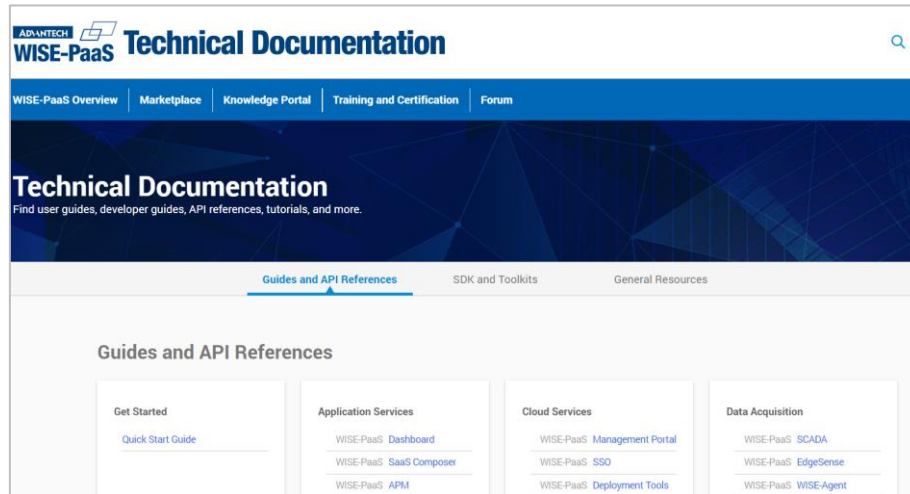
Complete Edge to Cloud AIoT offerings together with ecosystem partners.

Extends business from transactions to subscriptions.

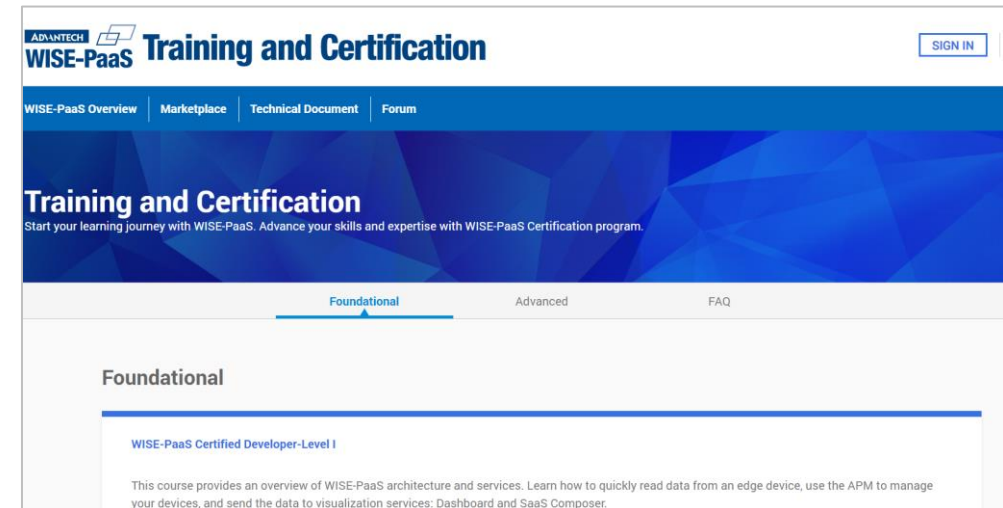


Technical Resources, Training, Certification and Support

Technical Documents and Forums



Training and Certification



Co-Creating the Future of the IoT World

