

Advantech Europe

intelligent Automation, Seamless Integration



Stéphane Blanc

stephane.blanc@advantech.fr

IO & Control - Product Sales Manager

November, 14th 2011

Enabling an Intelligent Planet

ADVANTECH

Fact Sheet

Leading Industrial Computing Platform & Services Company Worldwide

Established in:	May 1983
Public Listed in:	December 1999
Bloomberg Ticker :	2395 TT MSCI composite
Market Cap :	US\$ 1,111M
CEO:	K.C. Liu
Worldwide Employees:	4,056 (1,306 in Taiwan)
Revenue 2010:	564 Mio USD

Advantech Global Services Network



Enabling an Intelligent Planet



Design & Manufacturing Services (DMS)

- DMS – Network & Telecom
- DMS – Medical
- DMS – Gaming
- DMS – Applied Computing

Applied Computing & Intelligent Services

- Medical Computing
- Industrial Mobile Computing
- Self-service & Infotainment
- Digital Signage
- Intelligent Buildings



ADVANTECH

Embedded Design-in Business

Automation & Solution Business

Embedded Computing

- Applied Computing Design-in Services
- Single Board Computers & Industrial Motherboards
- Embedded Modules & Software Services



Industrial Automation (eAutomation)

- Industrial I/O & Controllers
- Industrial HMI & Panel PCs
- Industrial Communication
- Industrial Computers
- Power & Energy Solutions



Advantech Corporate Structure & Growth Engines

Advantech's Mission

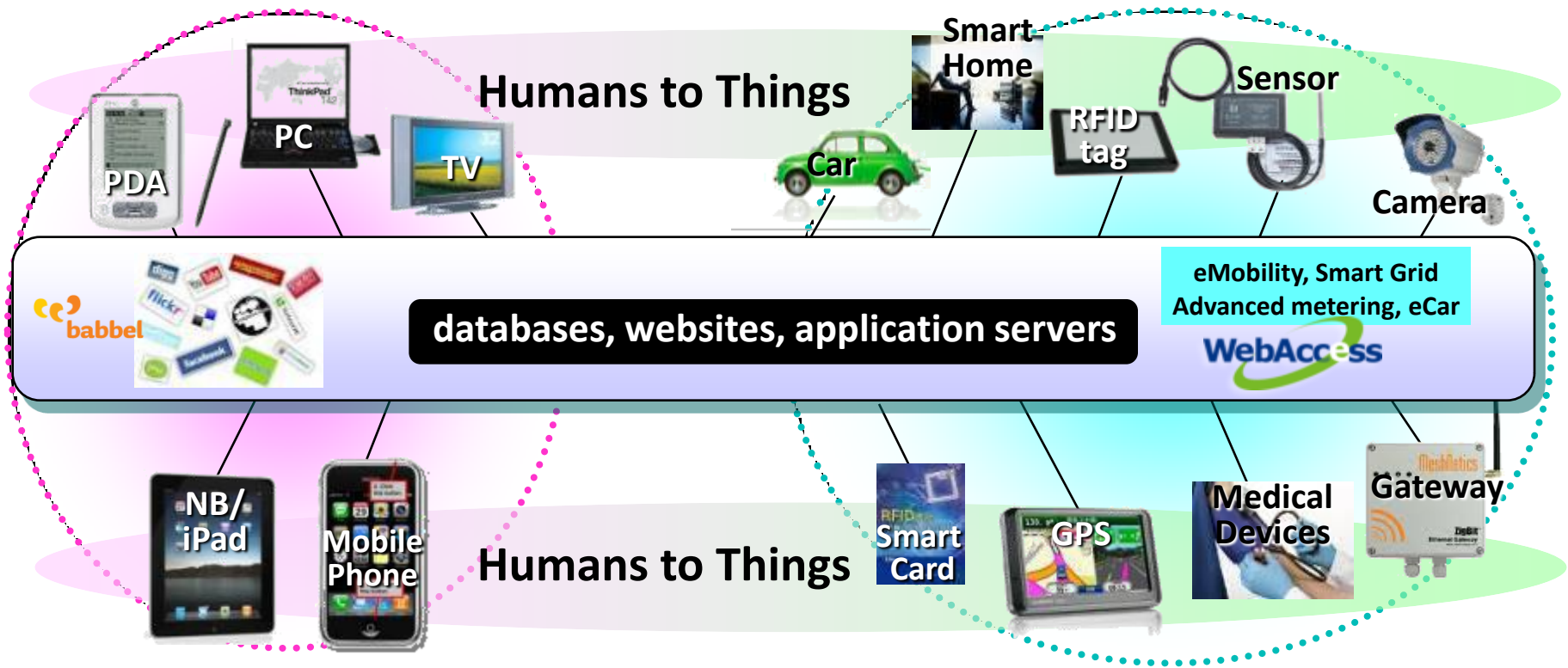
Fully realize the mission of “Enabling an Intelligent Planet” and become the most influential player in Intelligent Automation, Embedded Computing and the “Internet of Things” (IoT)



What is Internet of Things (IOT)?

Humans to Humans

Things to Things

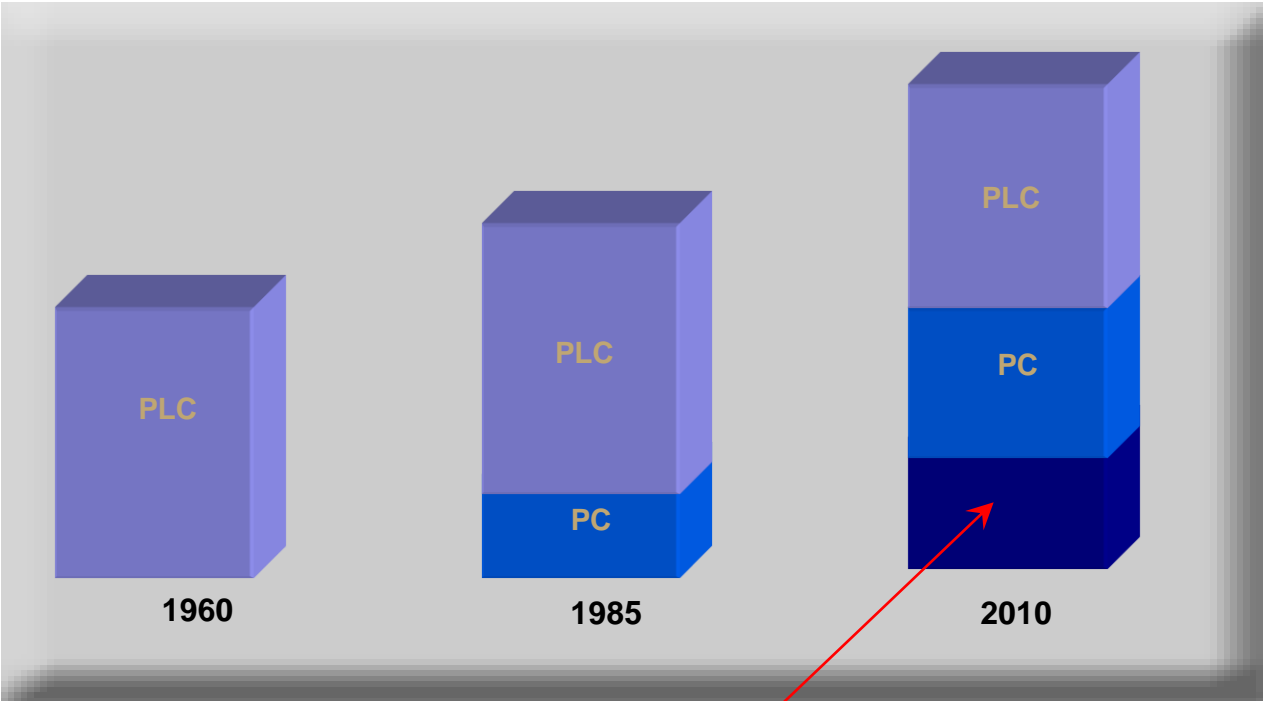


**Humans
+
Attached Devices**

Ubiquitous Networking

Things/ Objects
Remote Monitoring Devices

Embedded PC technologies are driving Smart devices and sensors



Intelligent Field Devices

Smart Sensors

- Color
- Contrast
- Capacitance
- Background Suppression

RFID

IO-Link



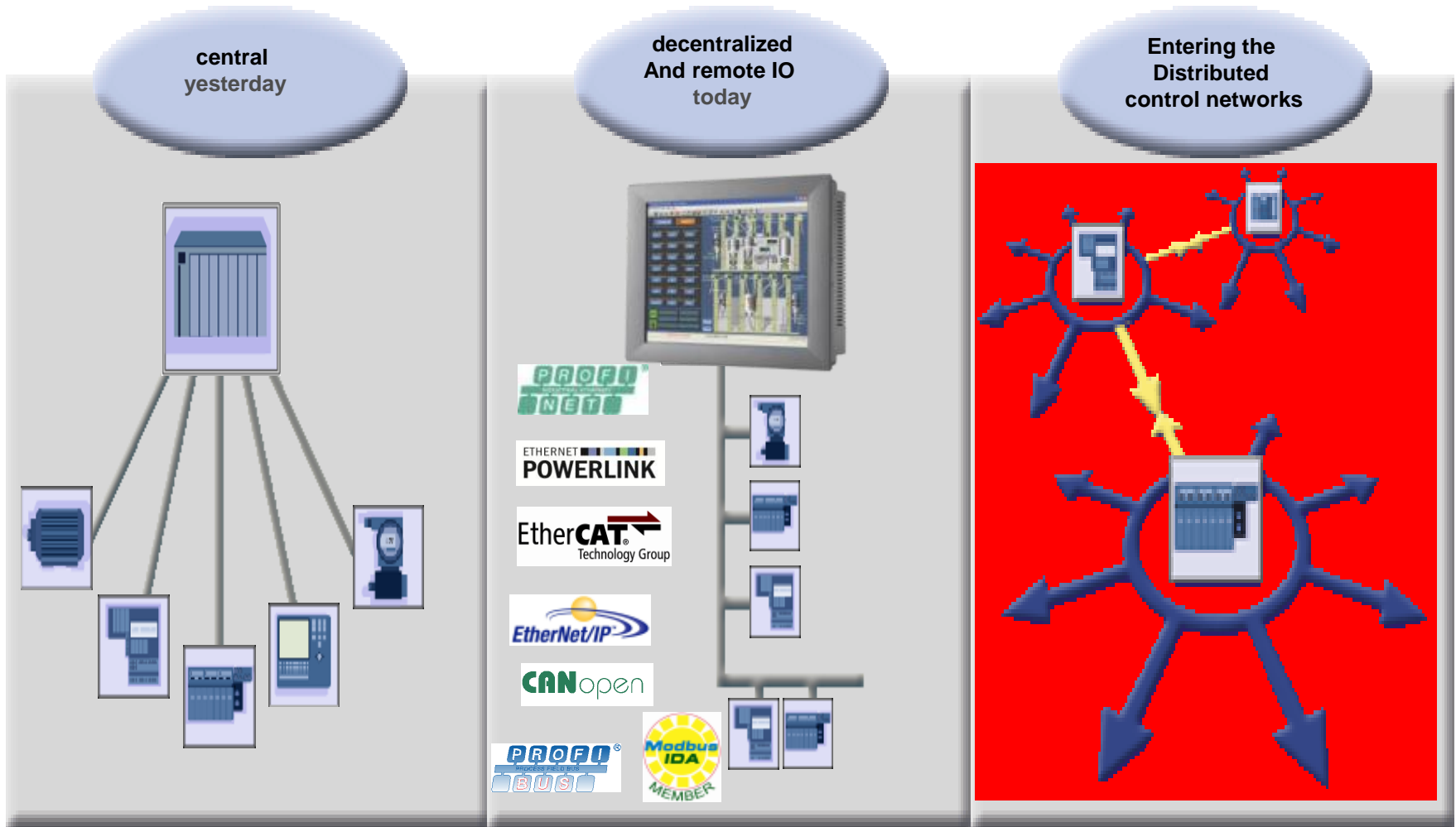
Smart Relays

- CANopen
- DeviceNet
- easyRelay
- easyMI
- easyControl
- easySafety

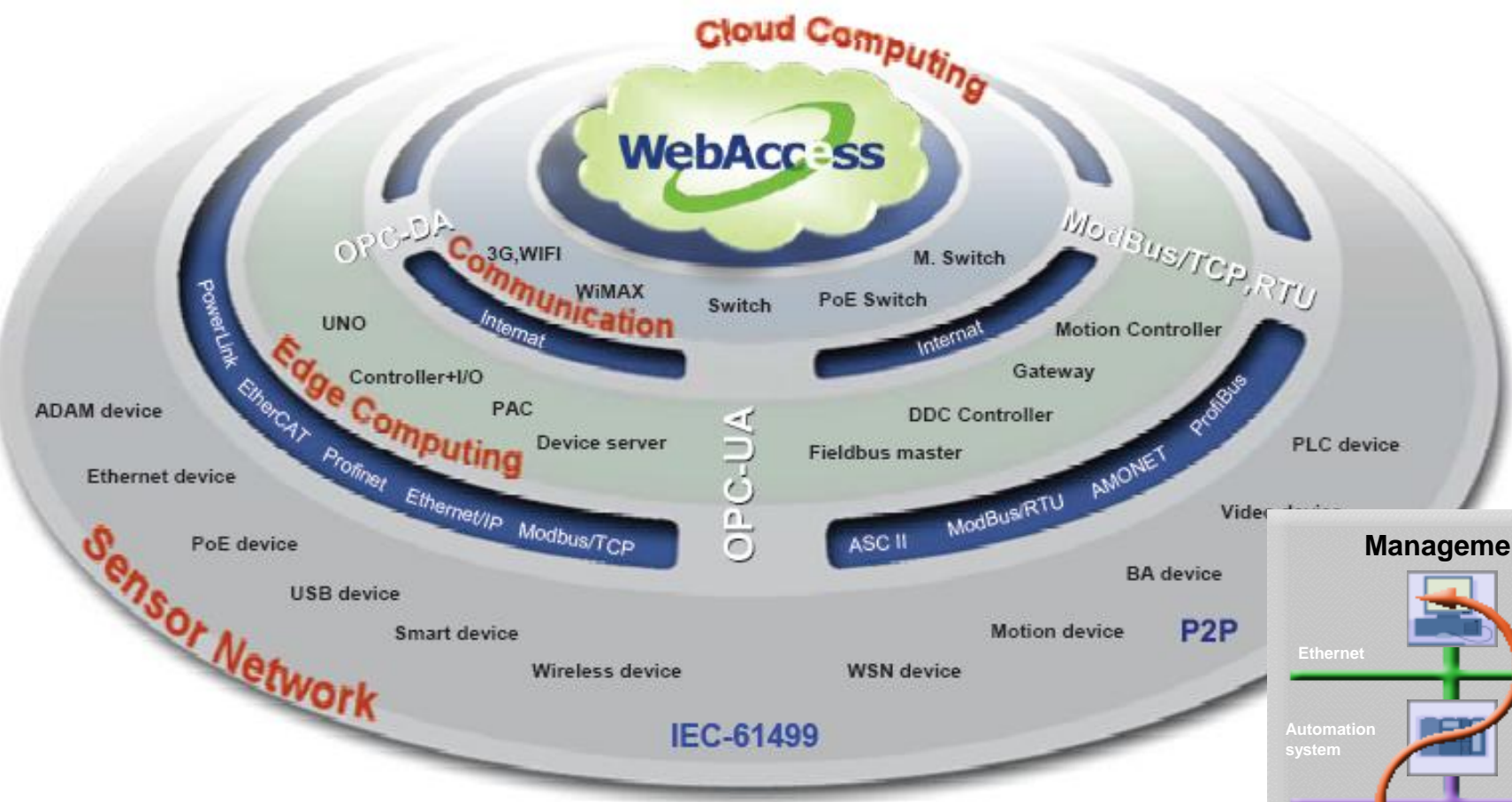
Enabling an Intelligent Planet



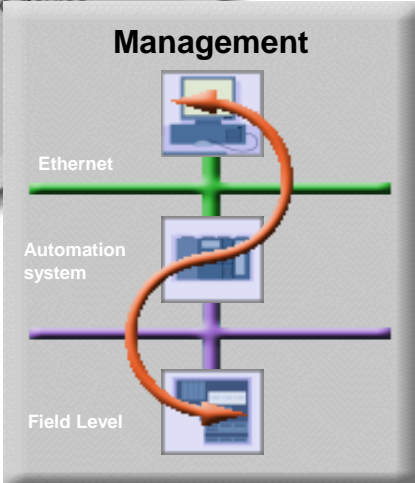
Towards Distributed Controller networks



Cloud-enabled Industrial Automation



Transparent Communication from the cloud to Field Level



Enabling an Intelligent Planet



Intelligent Automation Product portfolio

Automation Software



HMI & IPC

TPC-1017H/1271H/1571H : IoT platform / Supports mini-PCI/e expansion / Wireless / C2D

FPM-3000 / 8000 series : C1D2 / Sunlight readable / Stainless



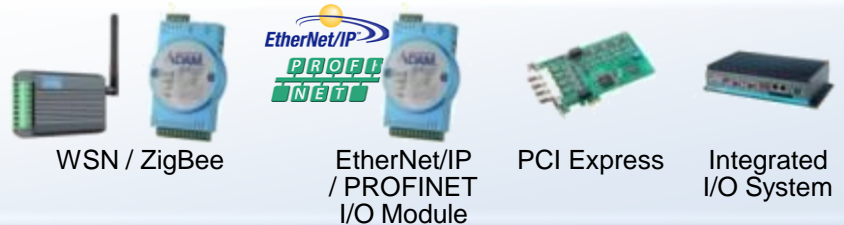
Industrial Communication



Embedded Controller



I/O



ADAM-66xx Pico Controller series with IEC-61499 Runtime

- Small footprint combines I/O & controller functions
- IEC-61499 Enable distributed control
- Support both Modbus Master/ Slave
- Support SNMP easy manage thru. Ethernet
- Build-in Ethernet switch for easy wiring



ADAM-66xx Pico Controller series

ADAM-6617
ADAM-6618

ADAM-6650
ADAM-6651/6656
ADAM-6660

Pico Controller with 8-ch
Isolated Analog Input

Pico Controller with 8-ch
Thermocouple Input

Pico Controller with 15-ch Isolated DI/DO

Pico Controller with 16-ch Isolated DI/DO

Pico Controller with 6-ch Relay

Type:	List prices Euro
ADAM-6617	360 €
ADAM-6618	425 €
ADAM-6650	255 €
ADAM-6651	255 €
ADAM-6656	255 €
ADAM-6660	279 €

Estimated prices

Common Specifications

General

- **LAN** 10/100Base-T(X)
- **Power Consumption** ADAM-6650: 2.4 W @ 24 V_{DC}
ADAM-6651: 2.4 W @ 24 V_{DC}
ADAM-6656: 2.7 W @ 24 V_{DC}
ADAM-6660: 3.5 W @ 24 V_{DC}
- **Connectors** 2 x RJ-45 LAN, (Daisy Chain)
Plug-in screw terminal block (I/O and power)
- **Watchdog** System (1.6 second) and Communication (programmable)
- **Power Input** 10 ~ 30 V_{DC}

Protection

- **Over Voltage Protection** ±35 V_{DC}
- **Isolation Protection** 2,500 V_{DC}
- **Power Reversal Protection**

Environment

- **Operating Temperature** -10 ~ 70°C (14 ~ 158°F)
- **Storage Temperature** -20 ~ 80°C (-4 ~ 176°F)
- **Operating Humidity** 20 ~ 95% RH (non-condensing)
- **Storage Humidity** 0 ~ 95% RH (non-condensing)

Programmable Automation Controller – APAX Series

Controllers
- APAX-5000 series



CANopen
Controllers
- APAX-5620

CANopen



APAX PAC Series



Versatile
I/Os



Couplers
-APAX-5570 Series



EtherNet/IP
Modbus-IDA
PROFI
NET

● Integrating Control, information Processing and Networking in a Single Platform

● Unique Dual Controllers Architecture for HMI/SCADA and I/O tasks

● Changeable Controllers and Couplers

● Flexible Expansible Topology

● Modular, hot swappable I/O design

Enabling an Intelligent Planet

ADVANTECH

Intelligent Building Automation & Energy Management



Integrated Facility Management Systems



HVAC System Management



Lighting Control Systems



Video Surveillance Systems

Enabling an Intelligent Planet

ADVANTECH

Power & Energy



Power Generation
-fossil
-hydro
-nuclear



Power & Energy
-Transmission
and distribution
-Smart grid



Renewable Energy
-Micro generation
-smart metering
- Power storage



**Electric Car
Charging Station**

Intelligent Transportation Systems



Railway Station



Onboard Train



**Freeway
Management &
Information
Display**



**Electronic
Payment**

Water Industry & Environmental Monitoring System



**Water &
Wastewater
Treatment**



**Water Pipeline
Monitoring**



**Water Pump
Station
Monitoring &
Control**

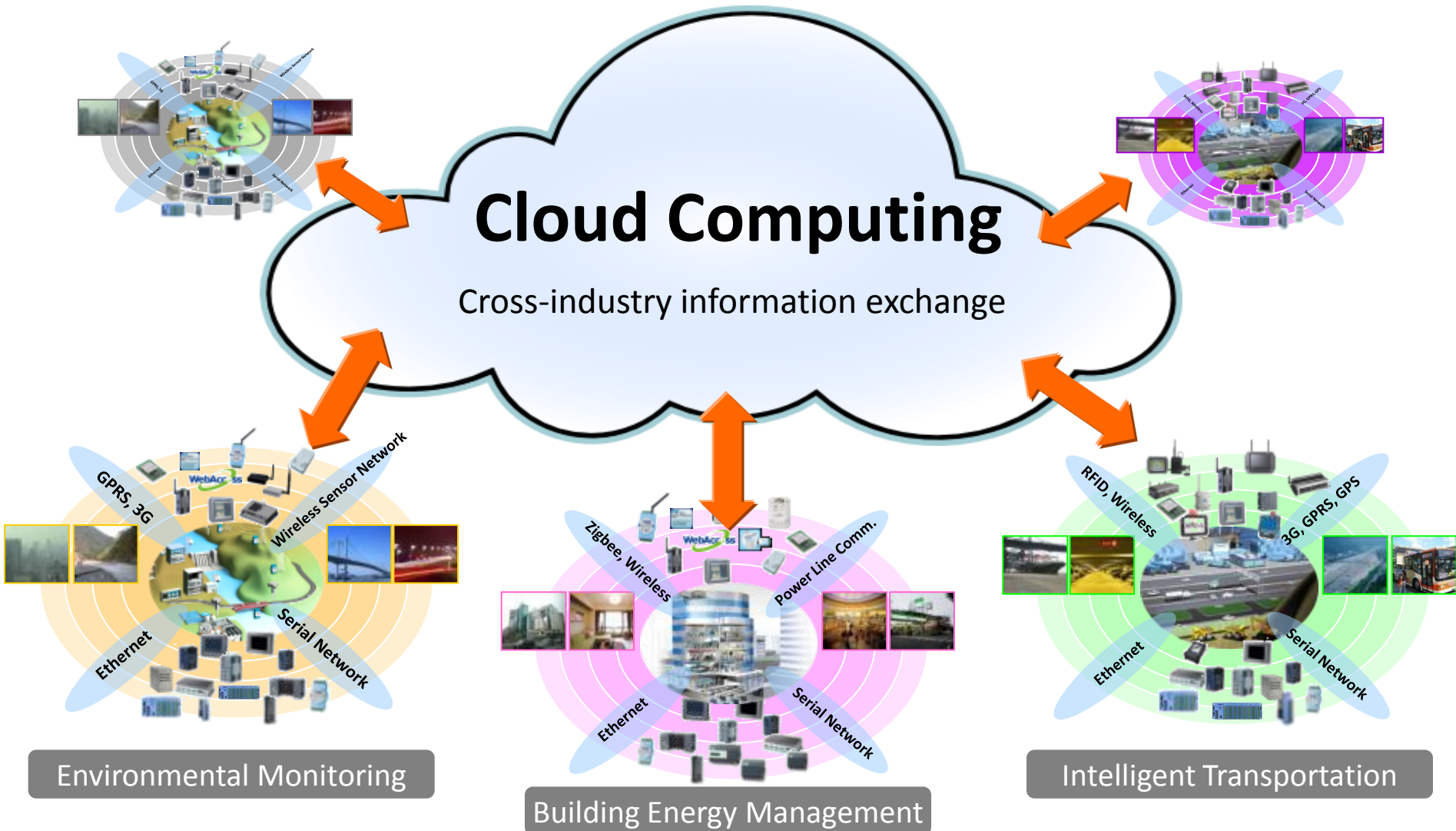


**Homeland
Security**

Enabling an Intelligent Planet



Crossing Application Boundaries thru Cloud Computing



Enabling an Intelligent Planet

ADVANTECH

We are looking forward to meet you at our

Booth 593 in HALL 7,

sharing with you our key Theme

"Transforming Technologies into Intelligence"

as we take the next steps into

"Enabling an Intelligent Planet"

ADVANTECH

Enabling an Intelligent Planet

Enabling an Intelligent Planet

ADVANTECH