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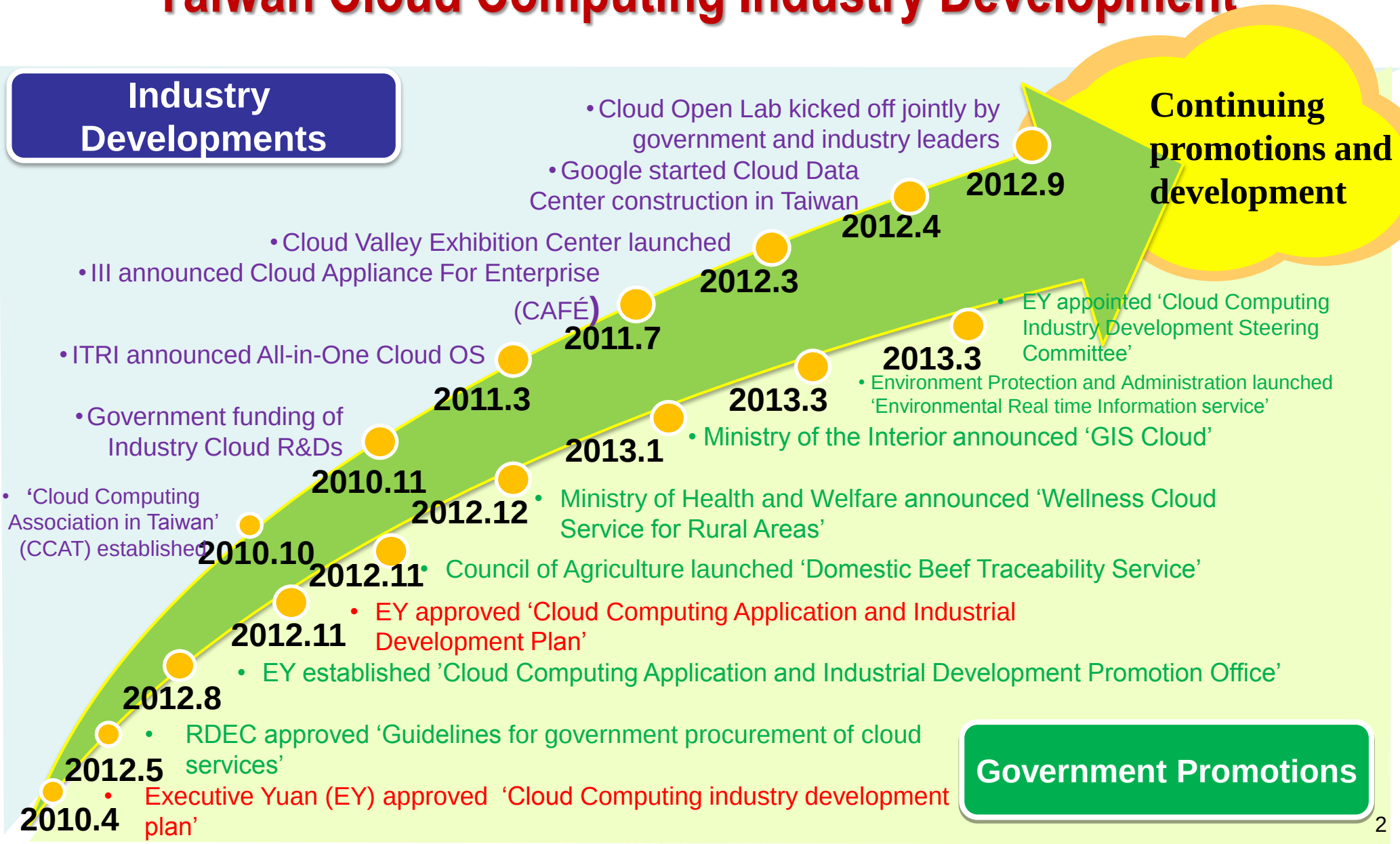
Cloud Computing in Taiwan

Dr. George Wang, VP, Cloud Computing Association in Taiwan
Chief Advisor, Inventec
September 26th, 2013

Milestones of Taiwan Cloud Computing Industry Development



Balancing Citizen's Service and Industry Revenue

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Taiwan Hardware Leadership for Cloud Computing

NB

WW No.1
Mkt Share:
94.1%

Mother Board

WW No.1
Mkt Share:
94.0%

LCD Monitor

WW No.1
Mkt Share:
72.1%

Server

WW No.1
Mkt Share:
40.9%

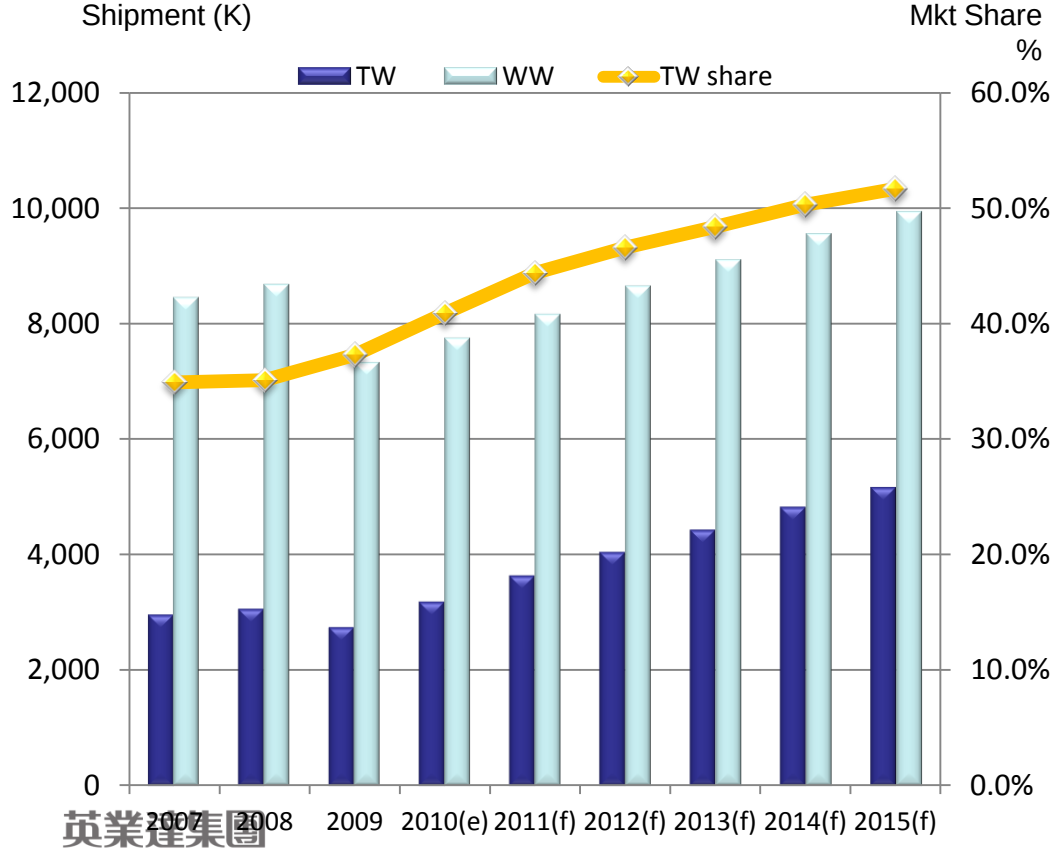
Thin Client

WW No.1

Source:MIC，IEK

Taiwan leads the world in manufacturing of servers, storage, and networking devices; with the additional new opportunity of supplying directly to large public cloud and data centers.

2007~2015 Taiwan server vendors shipments in global market



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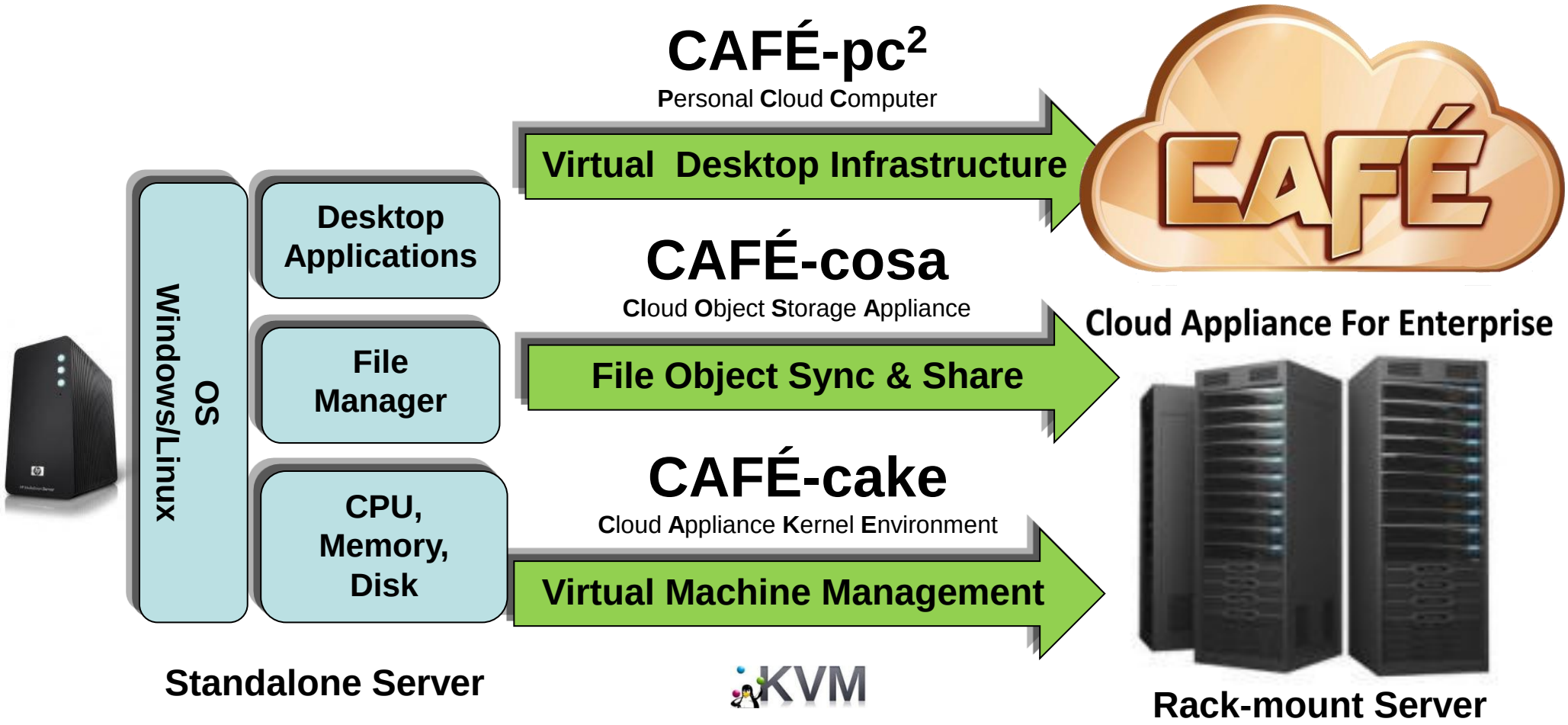
Build System Software Expertise
Cloud Appliance For Enterprise from III



PC Server

Cloud Appliance

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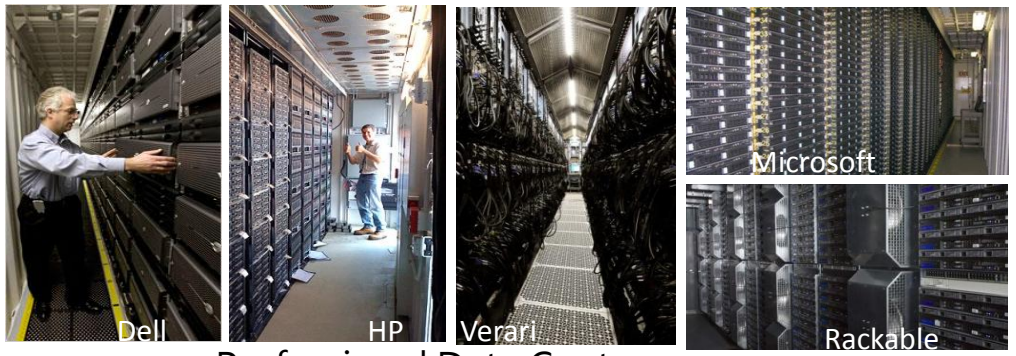
Be GREEN

Lower Overall Energy Consumption for IT Systems with Cloud Computing Economy of Scale

Data Center energy saving approaches:

- Set data center energy efficiency goals
- Promote data center energy reduction actions
- Launch energy efficiency guidelines for new data centers

Racks Virtualization Sharing



Professional Data Centers

- Bureau of Energy established plans for data center measurement and standardization procedures
- Inspect data center efficiencies for government and schools. Government data center purchase and leasing need to confirm with energy saving guidelines
- Expected to save more than $400 million dollars after adopting data center energy saving guidelines at universities and schools

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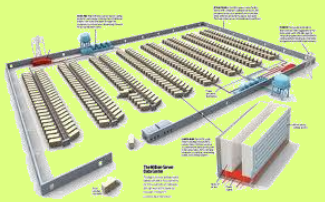
Construct Cloud Infrastructure

Transforming Hardware Manufacturers to Cloud Solution Providers for the Global Market

Large-Scale Data Centers



Provide Total Solutions

Renewable Energy & Integration Research

Software, System and Services Research

wistron FOXCONN 英業達 Inventec GIGABYTE acer MiTAC ASUS

Government Aid for Server Manufacturers

Inventec as the Top Server Manufacturer

Taiwanese Server System Manufacturer Volume Ranking, 4Q 2010 - 4Q 2012									
	4Q10	1Q11	2Q11	3Q11	4Q11	1Q12	2Q12	3Q12	4Q12
1	Inventec	Inventec	Inventec	Inventec	Inventec	Inventec	Inventec	Inventec	Inventec
2	Foxconn	Foxconn	Foxconn	Foxconn	Foxconn	Foxconn	Foxconn	Foxconn	Foxconn
3	Wistron	Wistron	Wistron	Wistron	Wistron	Wistron	Wistron	Mitac	Mitac
4	Mitac	Mitac	Mitac	Mitac	Mitac	Mitac	Mitac	Wistron	Wistron
5	Quanta	Quanta	Quanta	Quanta	Quanta	Quanta	Quanta	Quanta	Quanta
6	Gigabyte	Gigabyte	Gigabyte	Gigabyte	Gigabyte	Gigabyte	Pegatron	Pegatron	Pegatron
7	Pegatron	Pegatron	Pegatron	Pegatron	Pegatron	Pegatron	Gigabyte	Gigabyte	Gigabyte
8	MSI	MSI	MSI	MSI	MSI	MSI	MSI	MSI	MSI

***Note: Pegatron, spun off from Asus, was incorporated into the shipment figures starting in 1Q 2008**

Source: MIC , Feb 2013

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The Cloud Computing Industry

Cloud System Providers

vmware Microsoft IBM

Trusted

Controlled

Reliable

Secure

Cloud Service Providers

Google facebook iCloud amazon web services

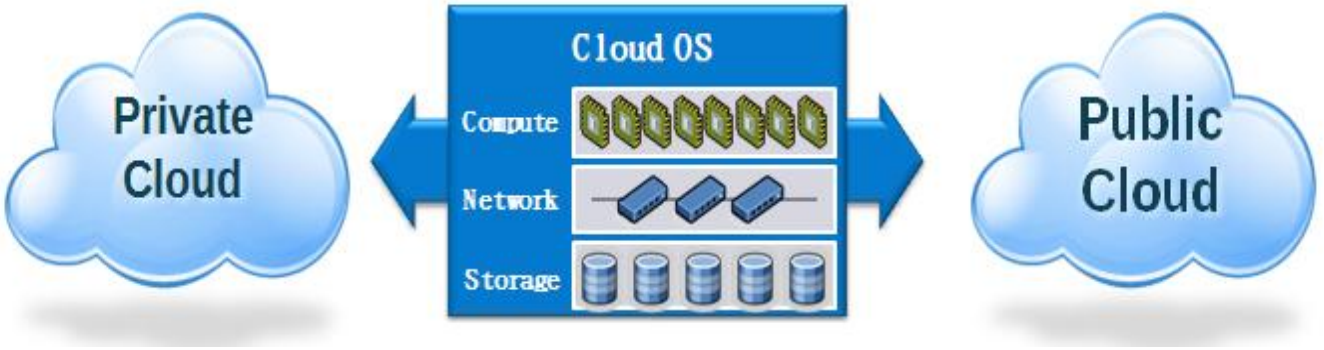
Dynamic

Cost-Efficient

On-Demand

Flexible

(IaaS/PaaS/SaaS)



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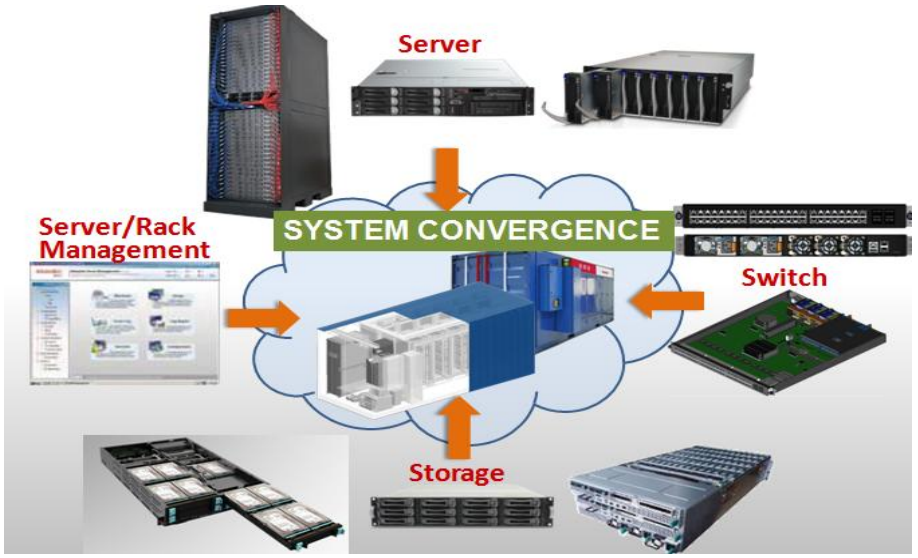
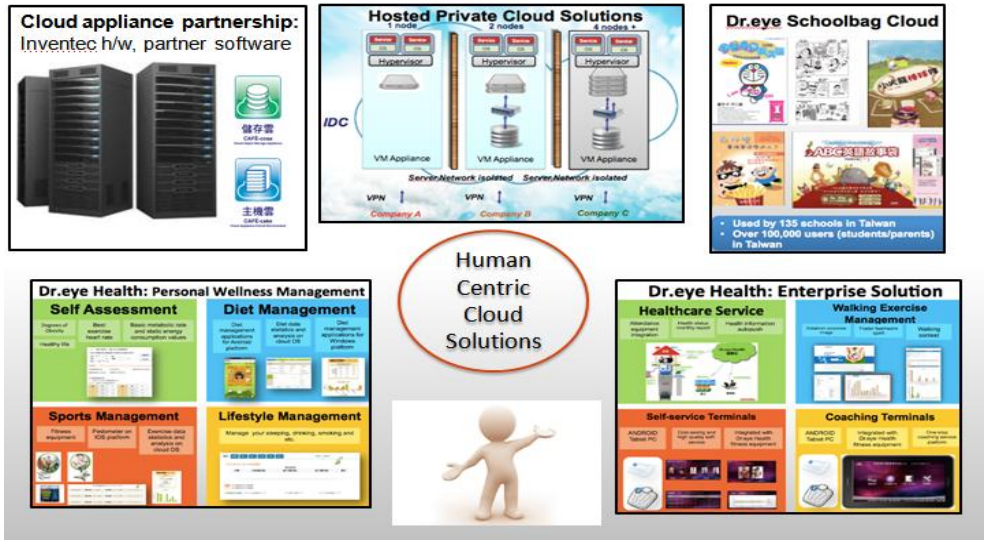
Inventec Cloud Systems and Solutions





Inventec Group Computing Products

Cloud-Oriented Smart Device

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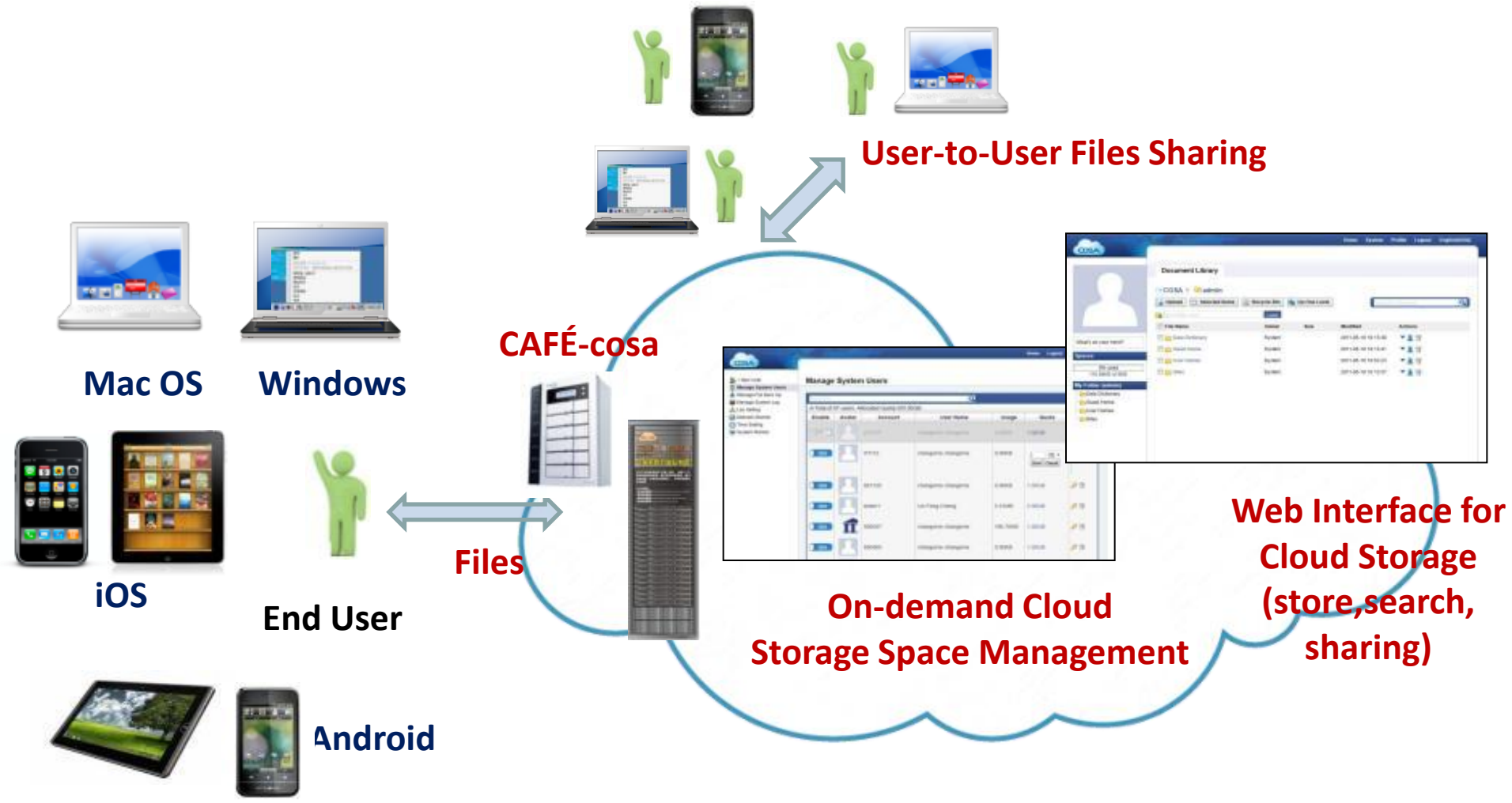
Inventec Storage Solution for SMEs



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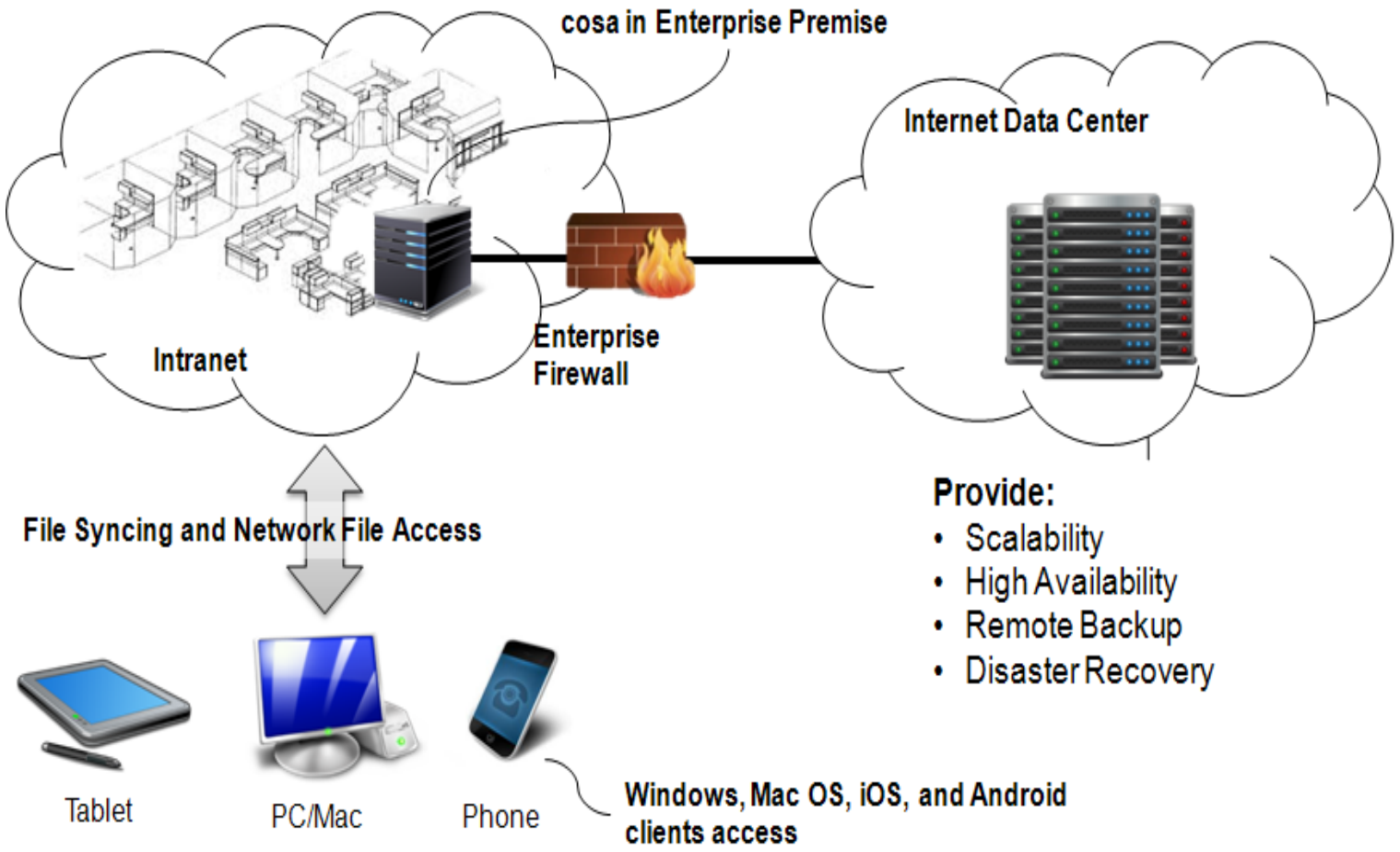
Inventec Hybrid Cloud Storage Solution



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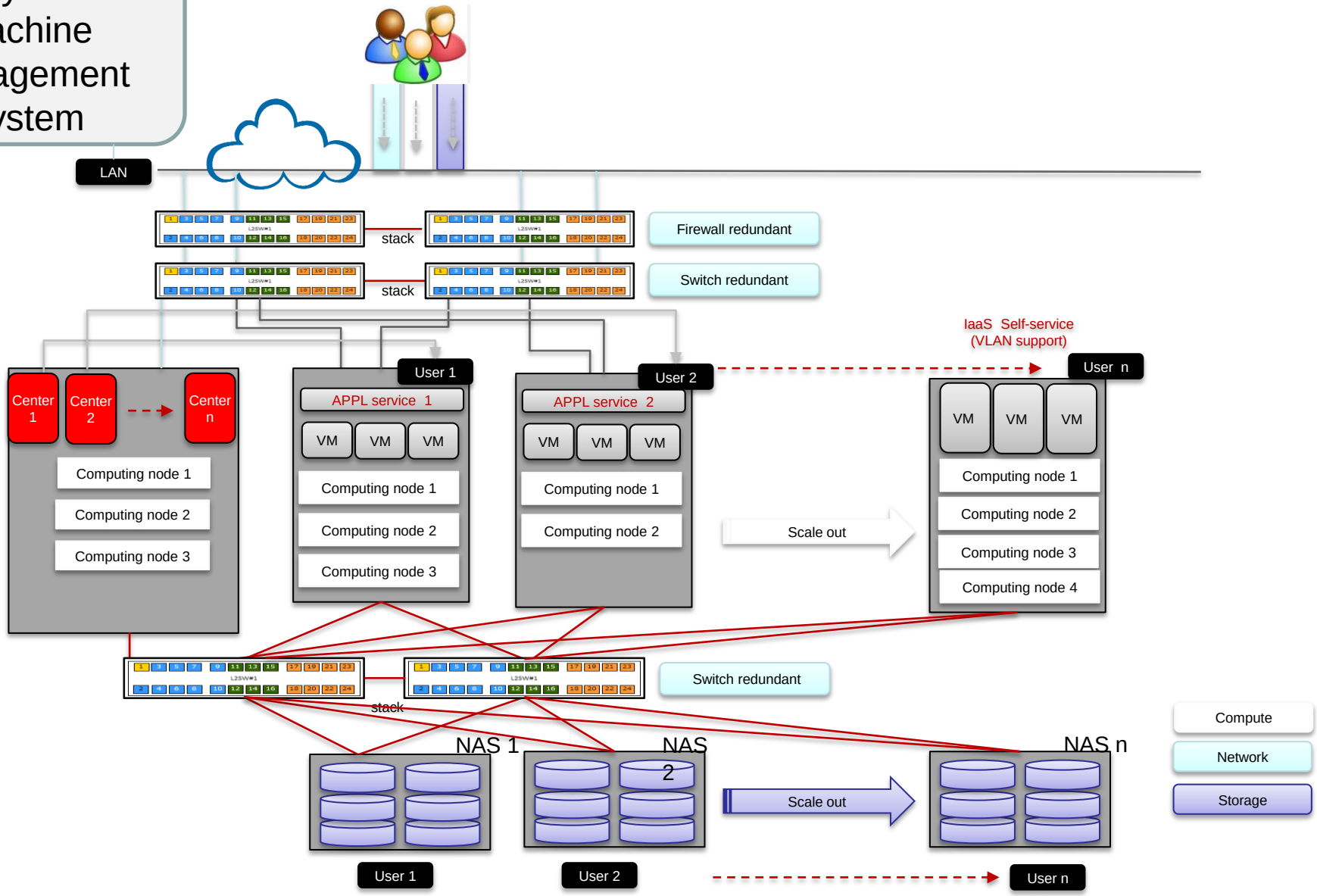
Inventec Hosted Private Cloud Solution

Physical Machine Management System



Inventec Thin Client based Virtual Desktop Solution

Mobile

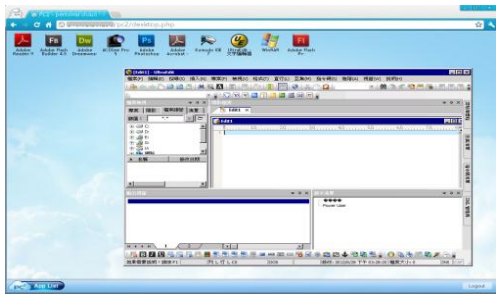
Tablet

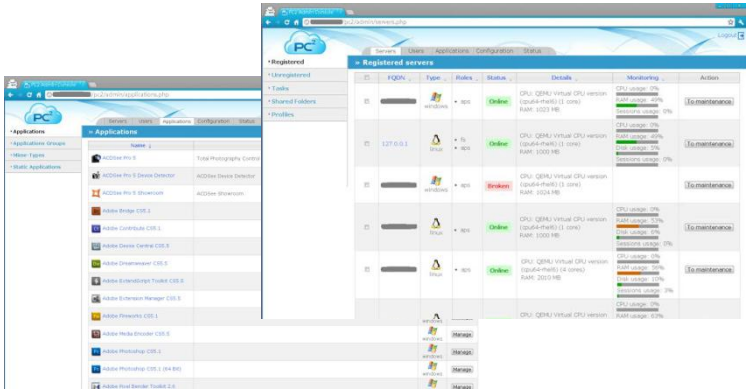
Thin Client

AIO

Notebook

- Leadership Thin client from Inventec
- Centralized application management
- All data stored at server end – security enhanced
- Significantly reduced total cost of ownership




AP List

Server List

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Inventec Digital Home Cloud Solotion

Media Sharing & Data Management

Media Sharing

Backup &

WiFi IR Bluetooth

Digital Home Control

ZigBee Alliance Wireless Control That Simply Works

Bluetooth

DH Control

Remote

3G / 4G + Wifi

Public Cloud Internet

Remote Access

Digital Learning Material for Dr.eye Schoolbag Cloud Solution

Before Class → **In Class** → **After Class**

Youtube tutorial videos

4193 network teaching resources

Practice activities (tailored by teachers)

Dr.eye teaching resources

Over 255 out-of-class reading material and 10,000 books

Used by 135 schools in Taiwan

Over 100,000 users (students/parents) in Taiwan

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Dr.eye Health: Personal Wellness Management

Self Assessment

- Degrees of Obesity
- Best exercise heart rate
- Basic metabolic rate and static energy consumption values
- Healthy life

Diet Management

- Diet management applications for Android platform
- Diet data statistics and analysis on cloud OS
- Diet management applications for Windows platform

Sports Management

- Fitness equipment
- Pedometer on IOS platform
- Exercise data statistics and analysis on cloud OS

Lifestyle Management

Manage your sleeping, drinking, smoking and etc.

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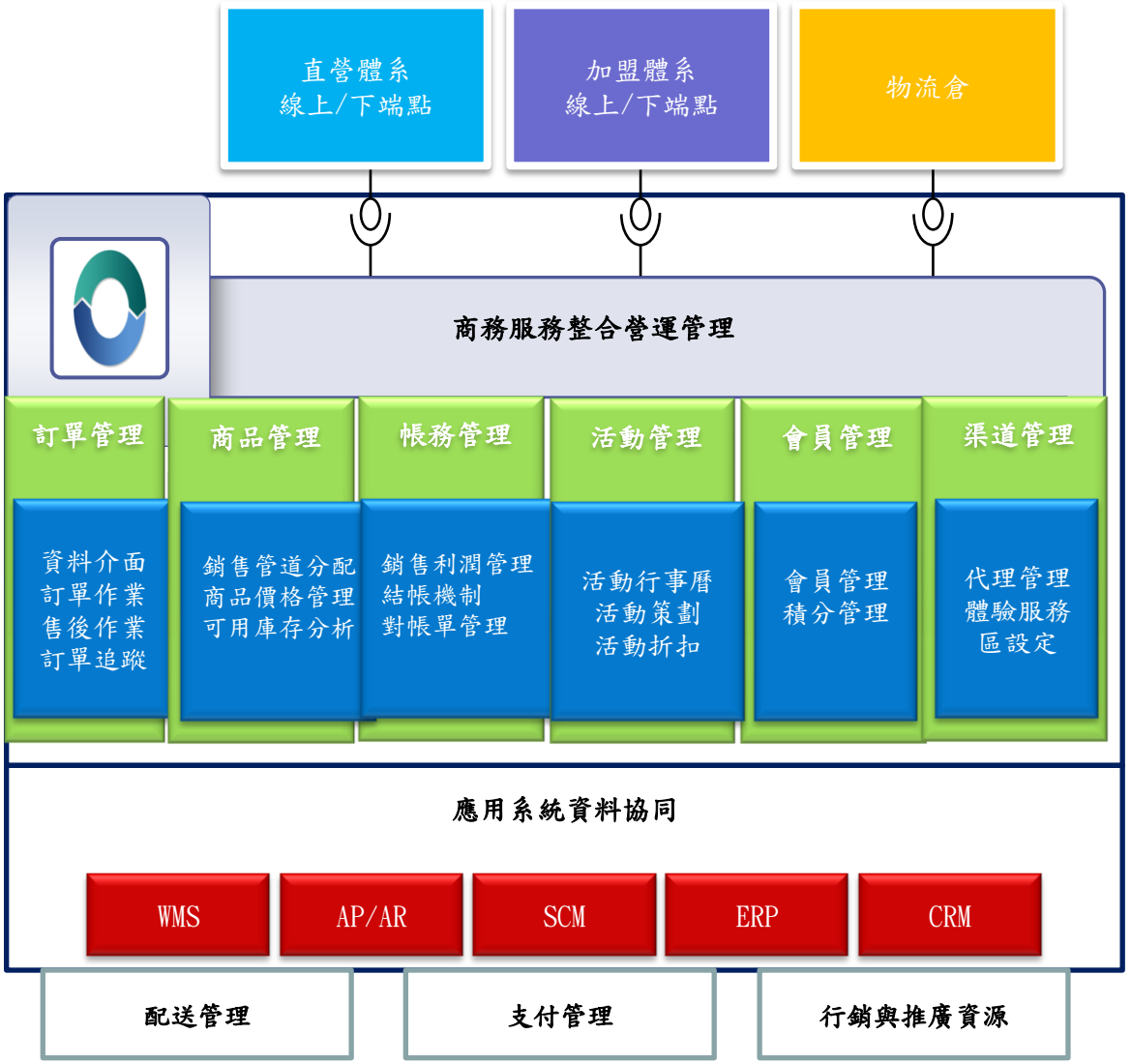
Inventec Retail Cloud Solution



- Provide Cloud Service Platform to improve retail's total value chain operation efficiency
- Provide SaaS service to customer
- Functional Scope
  - ✓ O2O Integration
  - ✓ SCM
  - ✓ DCM
  - ✓ CRM
  - ✓ BI
- Customer
  - ✓ A China Retail Chain
  - ✓ 500+ stores
  - ✓ 3 warehouses
  - ✓ Suppliers from Taiwan, China, and other countries
  - ✓ Has oversea franchisee
  - ✓ Multiple sale channels

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Cloud Open Lab –
A Bridge between Government and Enterprises

Supply

SaaS

PaaS

IaaS

UNISYS, knovia, GSS 叡揚資訊, asusCLOUD, LEO 國家電腦, interinfo, 寶盛數位科技 LANCER SYSTEMS, SAP, CSTC CAFE技術服務中心, DELL, hp, ypcall, FORTINET, Microsoft, IBM, Google, vmware, TREND MICRO, ORACLE, cloudena, 財團法人資訊工業策進會 INSTITUTE FOR INFORMATION INDUSTRY, 中華電信, FAR EASTONE 遠傳, 台灣大電訊 TWM Solution, acer eDC, CHIEF

Over **52** enterprises join Cloud Open Lab,& **106** services are offered

Cloud Open Lab

Demand Discuss → Analyze → Empirical

- Environment Cloud
- Agriculture Cloud
- Health Cloud
- Culture Cloud
- Disaster Prevention Cloud
- Education Cloud
- GIS Cloud
- Smart Transportation Cloud
- Food Safety Cloud

9 Ministries participate in Cloud Open Lab

Demand

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Promote Valuable Applications for Citizens

Valuable Government Cloud Applications for Citizens

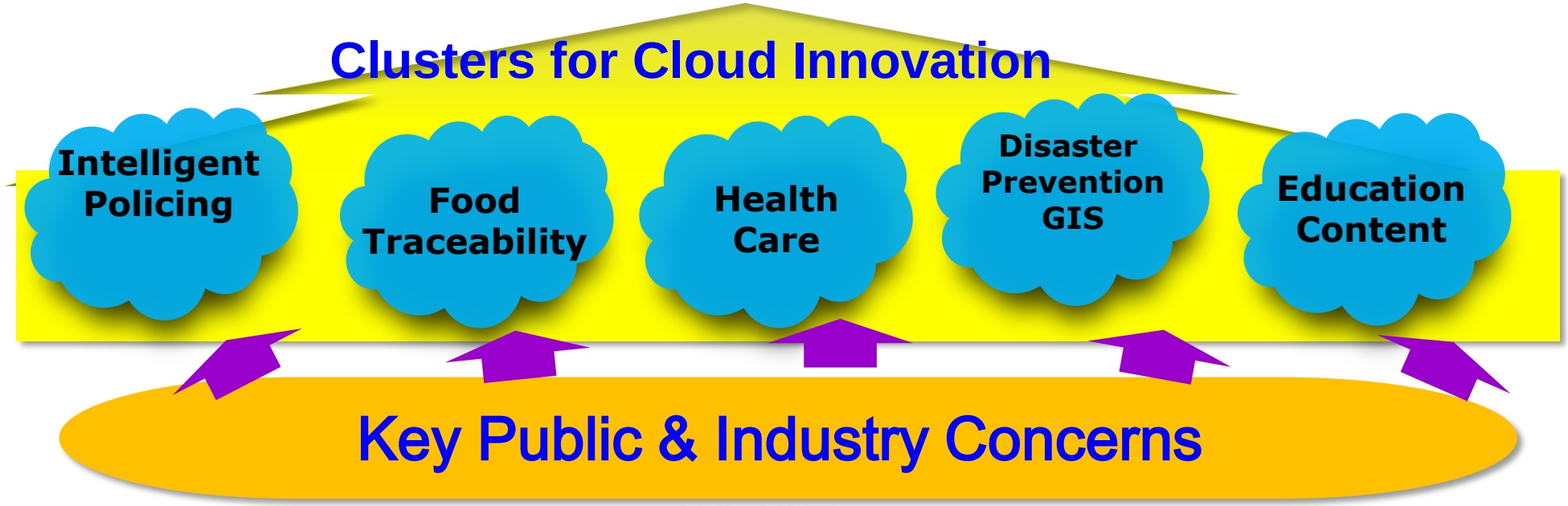
M-Police cloud to provide higher public security

Cross-division food information integration for food tracking and traceability. **Better food safety**

Linking medical service, long term care, wellness care, public health, CDC, for pervasive healthy environment

GIS Cloud to **intergrade Emergency/Disaster info nationwide**, for disaster control and general public

Sharing Cloud facilities for schools for carbon reduction; e-Learning services for lifelong learning



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Government Open Data

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Cloud Computing Association in Taiwan

- Including :Telecom operators, Service providers, H/W manufactures, S/W developers, System Integrators.

Taiwan Cloud Valley

- Taiwan's Vice President **Wu Den-yih** hoped that "Taiwan Cloud Valley" emerges as a respected counterpart of "Silicon Valley," and significantly boosts Taiwan's international competitiveness.
- Taiwan's Premier **Sean Chen**: May Taiwan Cloud Valley be more diverse than Silicon Valley, and the Government will provide strongest support.
- With concerted support from government and industry, Taiwan Cloud Valley aims to become the epicenter of the development of Taiwan's cloud computing ecosystem.

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CCAT Incubation Project

- Promote development of leadership cloud solutions and services
- Award dollars for the winning teams
- Major industry players provide mentoring
- Funding support from mentoring company possible
- Make Cloud Open Lab development and testing platforms available to participating start-ups

Participating Cloud Start-ups

CCAT Incubation Project
At Cloud Valley

(1)

(2)

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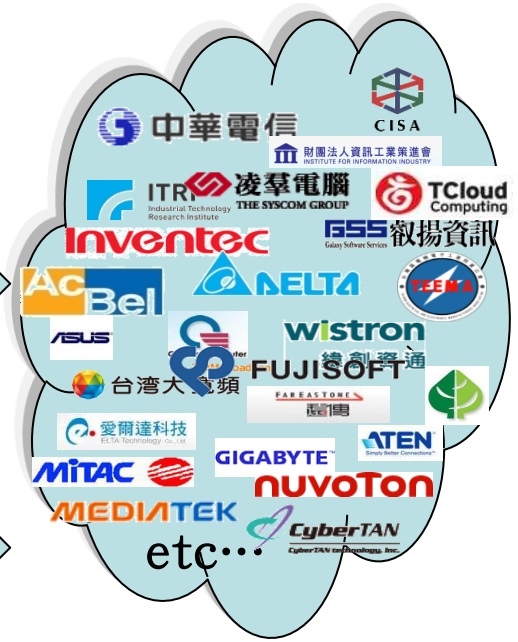

Cloud Development Platform Provider

OCP-Taiwan

Objectives

–Helps Taiwan's data center hardware solution providers to understand and adopt OCP's technical specifications

–Contributes to the technical specifications of the hardware and firmware components in OCP-backed data center solutions

–Works with OCP and OCP-Japan to promote the OCP brand and develop the OCP eco-system

Formation

–ITRI, Wiwynn, Inventec, Asus, Delta, Gigabyte,CHT, FETnet and TFN initiate the move to form Open Compute Project Taiwan (OCPT) under the guidance of Open Compute Project (OCP) and Cloud Computing Association in Taiwan (CCAT)

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Cloud Computing in Taiwan

- **Continuing/expanding ICT economical contribution**
  - **Leading worldwide supplier of Cloud systems and solutions**
- **Develop innovative Cloud Services for better and smarter living**
  - **Instant and timely information**
  - **Enhanced service**
  - **For our daily living**
- **Partnership Welcome**

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THANK YOU

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