



OPEN
Compute Project



OCP U.S. SUMMIT 2017

Santa Clara, CA



Planting the Future Cutting-Edge OCP Products and Partnerships

Ethan SL Yang/Deputy Manager/Wiwynn

OPEN HARDWARE.



OPEN SOFTWARE.



OPEN FUTURE.



Planting The Future

What's the NEWs in 2017 from Wiwynn ?

- Accelerate Knowledge, Accelerate Compute
- Lightning Fast Comes To The 19" World
- Intel® RSD on OCP (Optimized Pooling, Scaling & Utilization)
- 48V Direct to PoL VRs for CPU and Memory

Successful Case Study

- Accelerating OCP Migration



Accelerate Knowledge, Accelerate Compute

Dr. Know (19" 3U16Bay JBOX) in Workshop

- High performance compute accelerator
- New EIA 19" **3U16Bay** with 16 GPGPUs
- Higher application flexibility
(AI & Machine/Deep Learning)
- Easy tool-less design
(GPU cards, fan modules, PSUs)

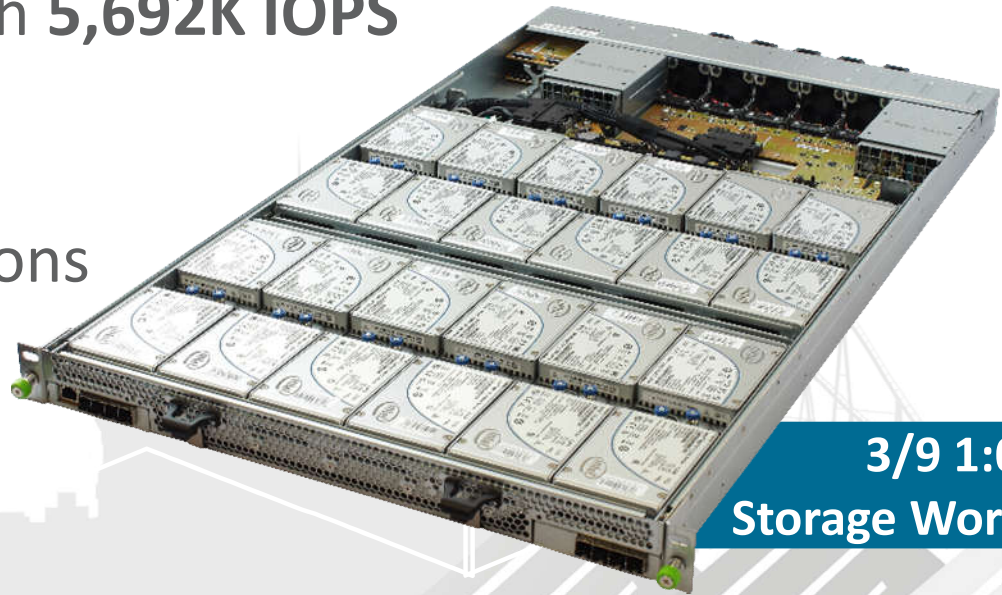


3/9 10:00 AM
Server Workshop

Lightning Fast Comes to The 19" World

Thunder (19" 1U All-Flash NVMe JBOF) in Workshop

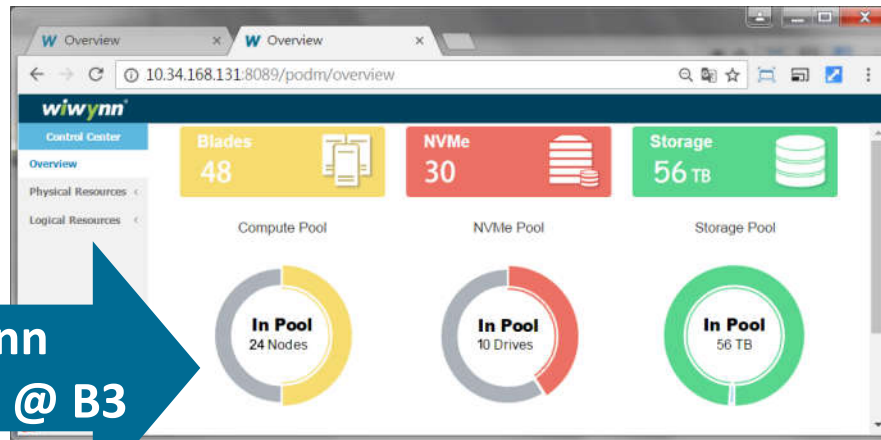
- Offer data center operators benefits of OCP Lightning
- **24** hot-pluggable U.2 NVMe SSDs in **1U** space
- **26GB/s throughput** with **5,692K IOPS**
- Easy tool-less design
- 2 PCIe 3.0 x16 connections directly to servers



3/9 1:00 PM
Storage Workshop

RSD on OCP (Optimized Pooling, Scaling & Utilization)

Wiwynn's Latest Pooling Solution in Live Demo (Booth B3)



- Advancing software-defined data center modularization

Compute Pool, NVMe Pool, Storage Brick and SDN Fabric

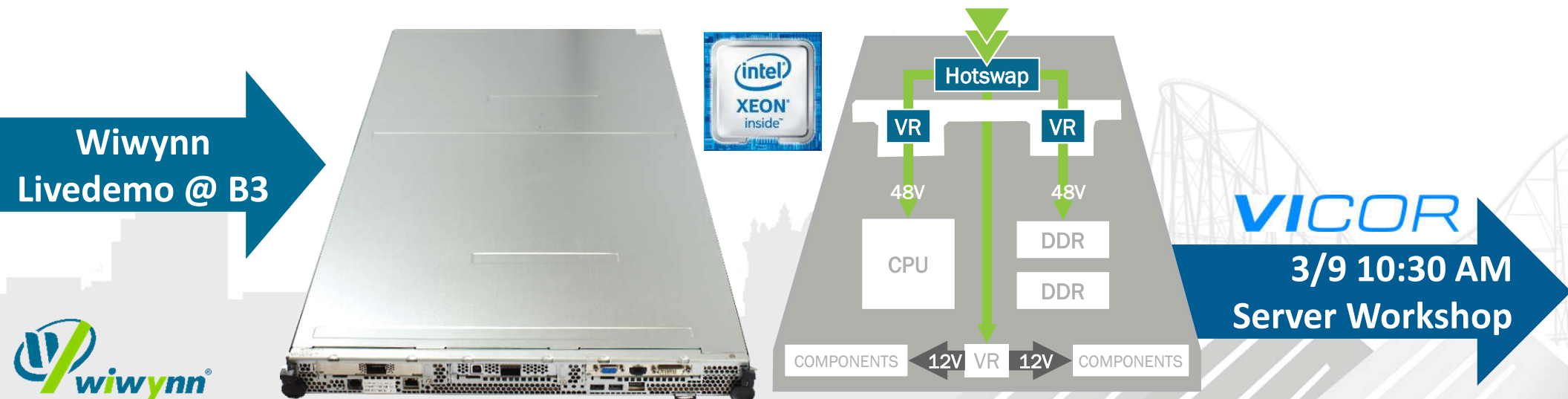
- Includes world's **First NVMe SSD JBOF (ST7200-30P)**
- Intel® RSD on OCP transforms leading-edge Wiwynn hardware into logical resource pools



48V Direct to CPU Goes Mainstream

Wiwynn's 48V Server in Live Demo (Booth B3)

- Based on OCS full width blade specification
- Vicor 48V direct to PoL VRs for CPU and Memory
- Support integrated PSU or blind-mate bus bars





Successful Case Study

Accelerating OCP Migration

Ethan SL Yang/Deputy Manager/Wiwynn

Hisatomo Tanaka/ITOCHU Techno-Solutions America, Inc.

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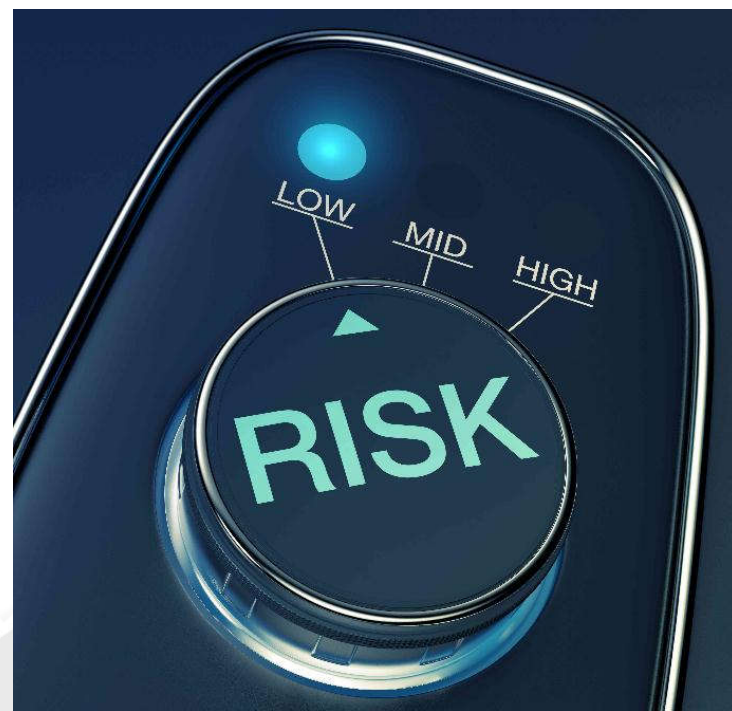
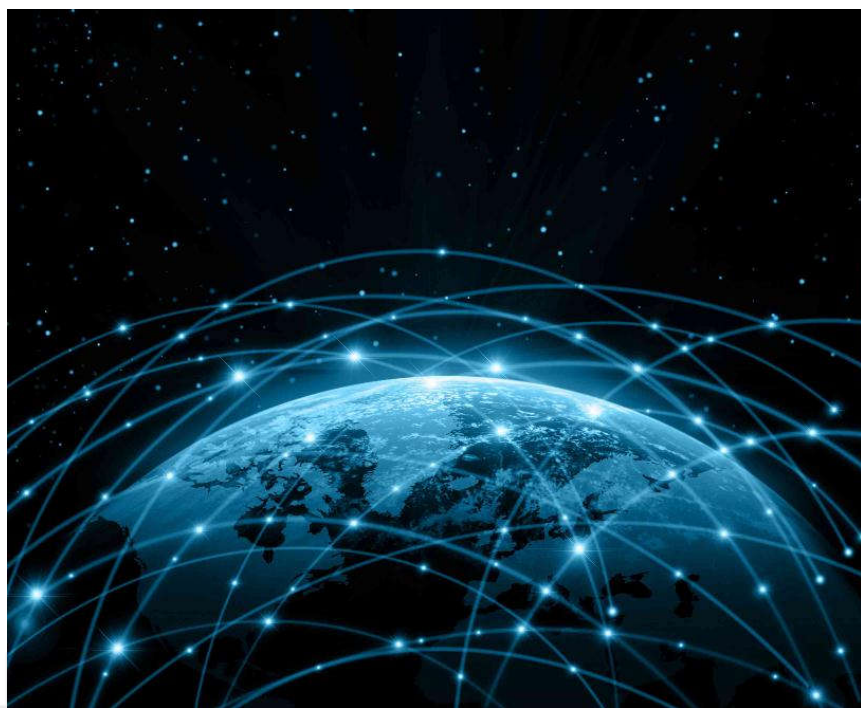
Accelerating OCP Migration

Customer's First Migration to OCP

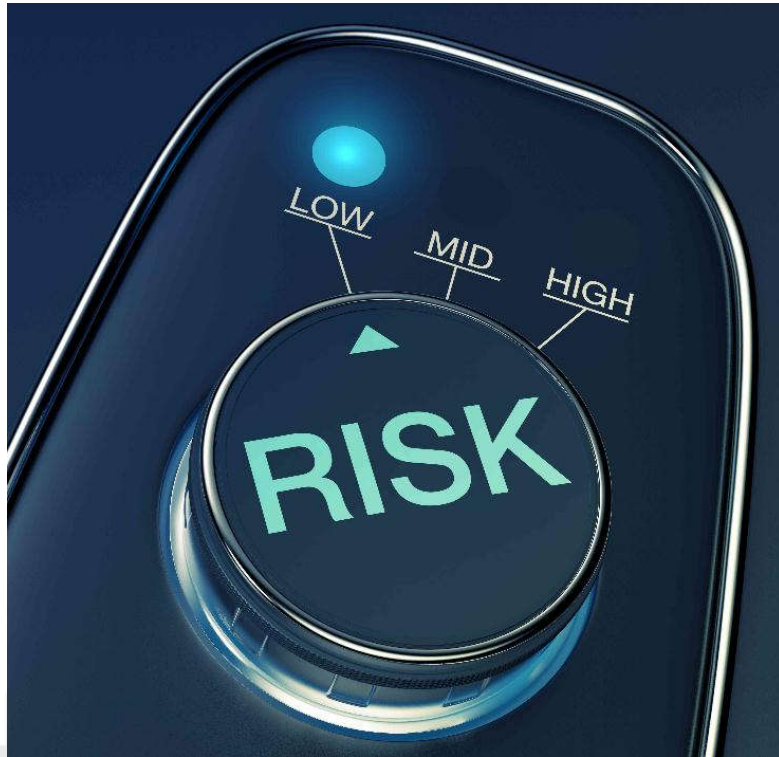


- Wiwynn successfully helps customer perform its **first migration to OCP**
- Strengthen cost competitiveness corresponding to **Large-Scale Data Centers**
- Further improve **base technological capabilities**

Proven at Hyper scale



Proven at Hyper scale



1. Simple

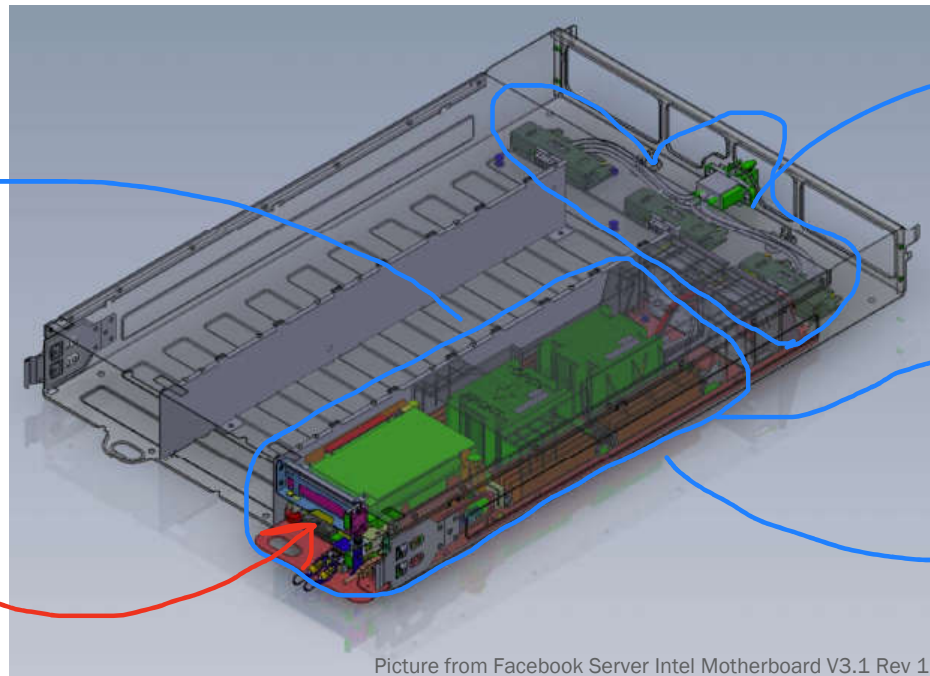
2. Ecosystem

3. Innovation

1. Simple – User Centric

Tool Less
Maintenance

Front Access



No Human Error

One hand carry

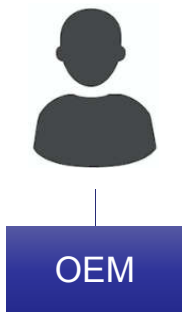
Stability

Operation @ Scale

2. Ecosystem – Open & Mature

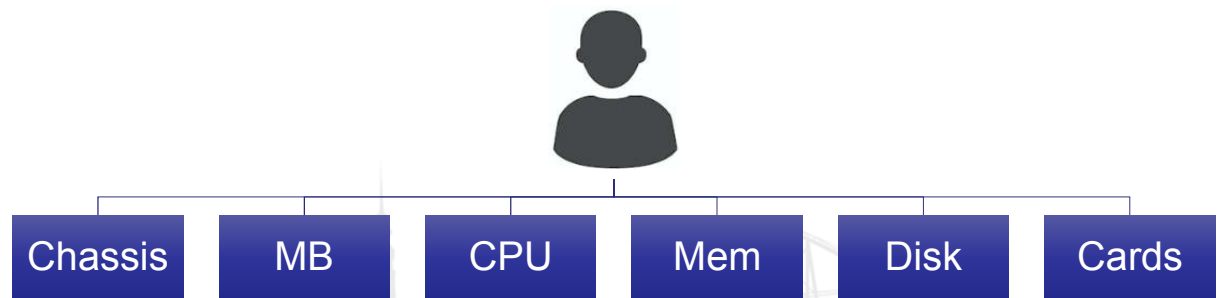
- **Today**

Box Level



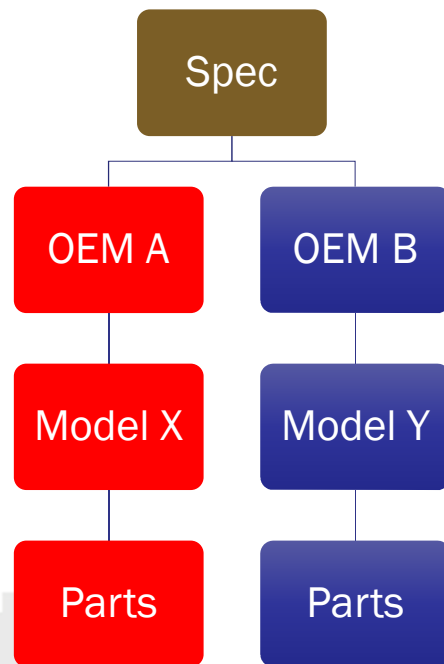
- **Open Compute**

Part Level




More Saving

2. Ecosystem – Open & Mature



Different Policy
(QA, Speed, Disclosure)

Different Serviceability

Different Choices in Parts

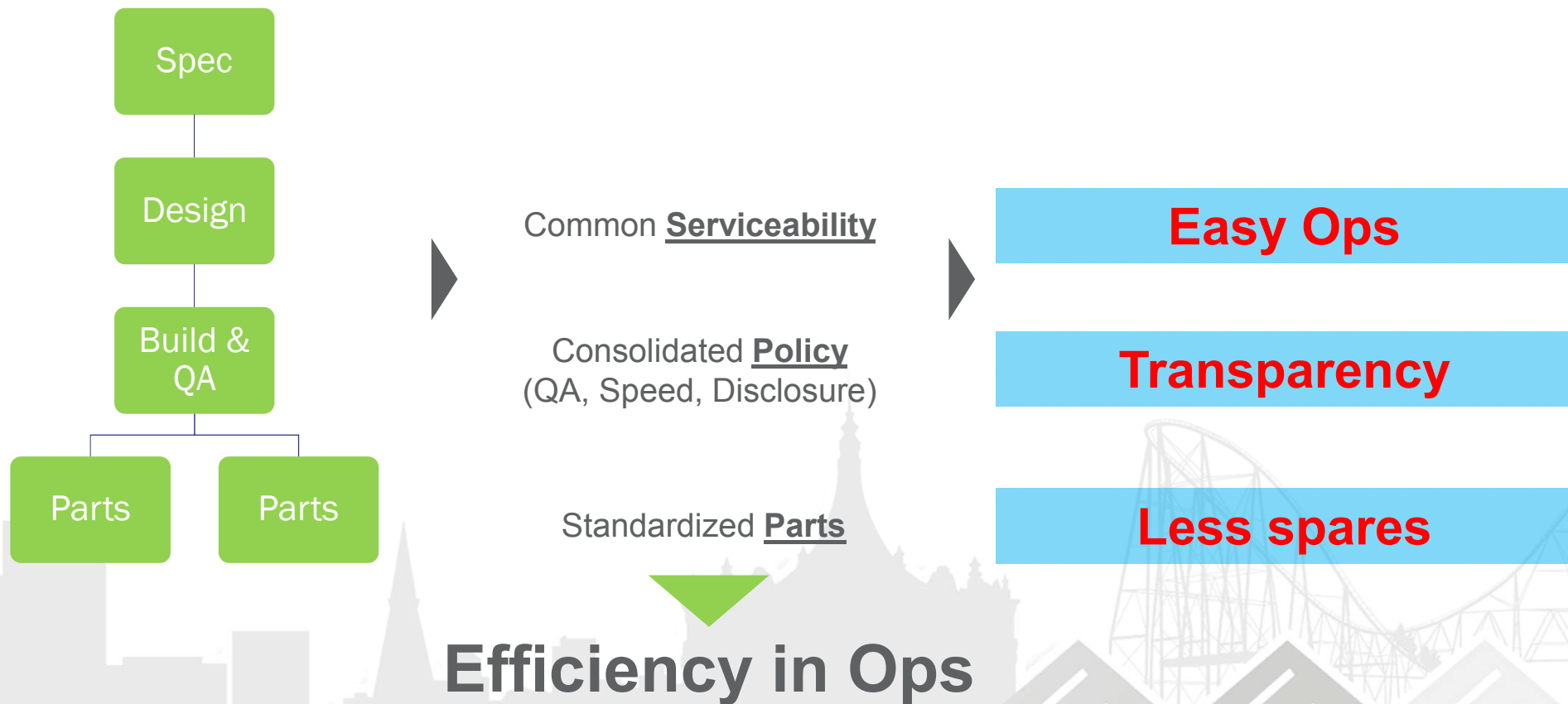
Long time to solve
issues

Overhead in Ops

Tons of spare servers

~~Inefficiency in Ops~~

2. Ecosystem – Open & Mature



2. Ecosystem – Open & Mature



3. Innovation – w/ Reliability

Hardened
Quality

Innovation



Things to Consider & Challenge

- **Apps : Does an app need to be resilient?**

Better.

Scale-out services like Web server, Distributed DB, Hadoop, Object Storage...the best fits.

- **Data Center : Do I have to have my own data center?**

Better but not required. because you need to bring OpenRack in.

OpenRack is the same external dimension as a 19" rack.

New ideas underway.

- **Volume : How many servers do I need to buy to get a cost benefit?**

More is better, then you will benefit from the parts pricing.

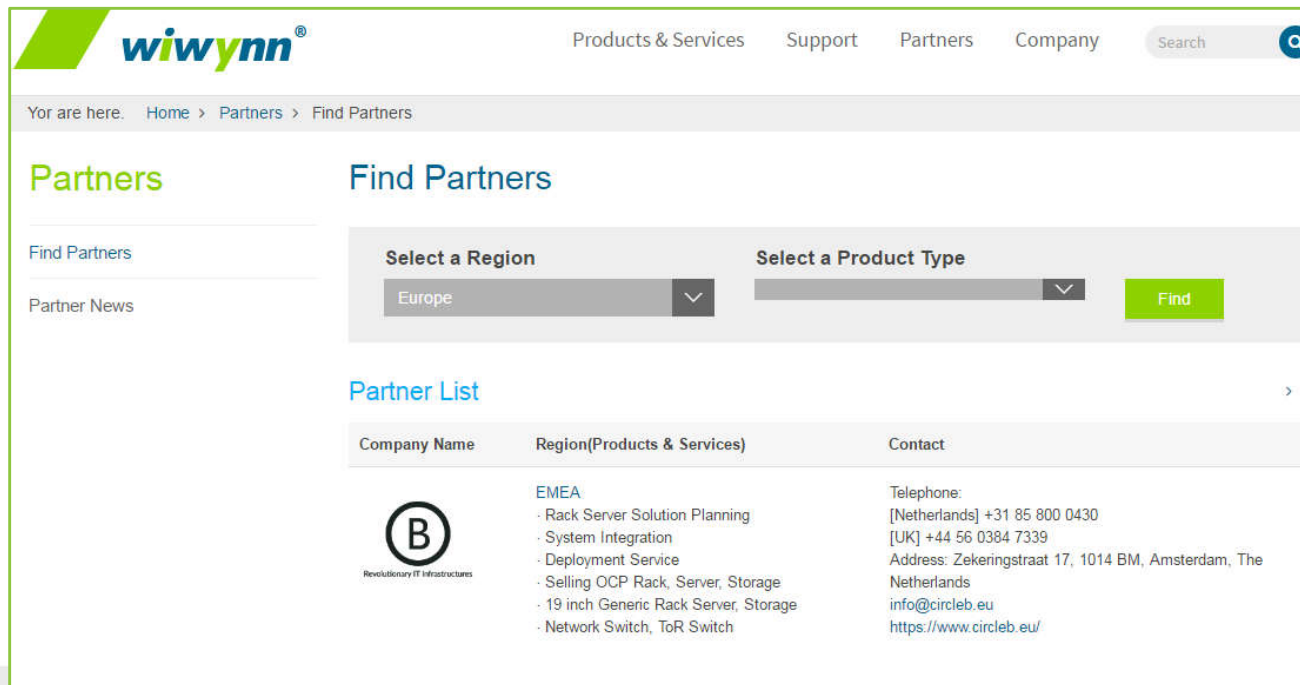
Cost of Rack, Power Shelf and establishing new QA process would be relatively high when you buy small.

New ideas underway.

Growing The Future of OCP with Our Partners

Wiwynn Partner List

- <http://www.wiwynn.com>



The screenshot shows the Wiwynn website's 'Find Partners' page. The header includes the Wiwynn logo and navigation links: Products & Services, Support, Partners, and Company. A search bar is located on the right. Below the header, a breadcrumb trail reads 'You are here: Home > Partners > Find Partners'. The main content area is titled 'Partners' and 'Find Partners'. It features a 'Select a Region' dropdown menu with 'Europe' selected, a 'Select a Product Type' dropdown menu, and a green 'Find' button. Below this, a 'Partner List' section displays a table with columns for Company Name, Region(Products & Services), and Contact. The first entry is for 'Circle B' (Revolutionary IT Infrastructures) in the EMEA region, listing services like Rack Server Solution Planning, System Integration, Deployment Service, Selling OCP Rack, Server, Storage, 19 inch Generic Rack Server, Storage, and Network Switch, ToR Switch. Contact information includes a telephone number, address, email, and website.

Partners

Find Partners

Partner News


Find Partners

Select a Region
Europe

Select a Product Type

Find

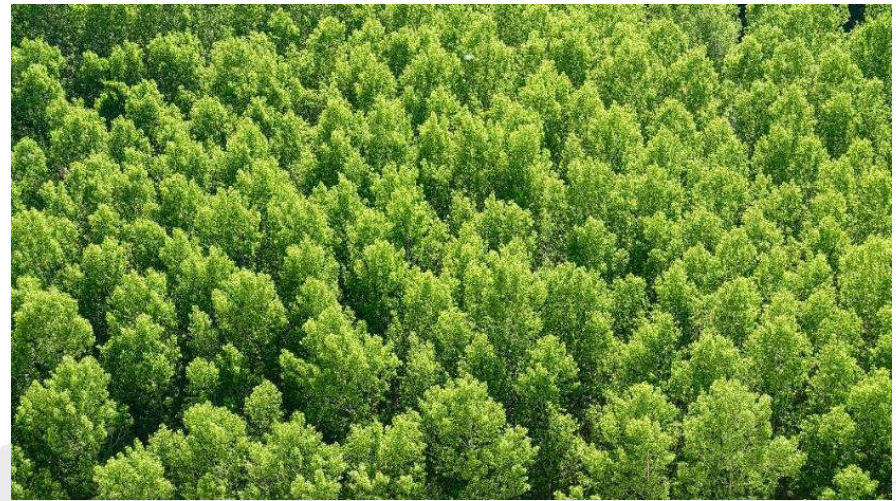
Partner List

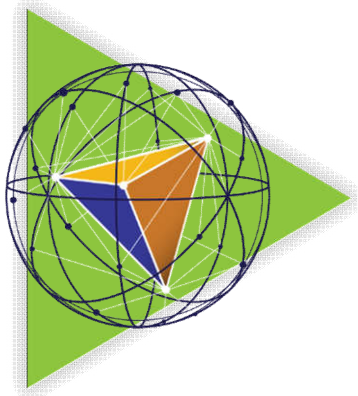
Company Name	Region(Products & Services)	Contact
 Revolutionary IT Infrastructures	EMEA <ul style="list-style-type: none">· Rack Server Solution Planning· System Integration· Deployment Service· Selling OCP Rack, Server, Storage· 19 inch Generic Rack Server, Storage· Network Switch, ToR Switch	Telephone: [Netherlands] +31 85 800 0430 [UK] +44 56 0384 7339 Address: Zekeringstraat 17, 1014 BM, Amsterdam, The Netherlands info@circleb.eu https://www.circleb.eu/

Growing The Future of OCP with Our Partners

The Tale Continues: OCP, Wiwynn, and Partners

- Together, Wiwynn and Partners will accelerate the future of OCP technologies and migration





Thank you

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ITOCHU Techno-Solutions America, Inc.



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