Open Compute Project Japan (OCPJ) Interoperability Plan

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Goal: Clear understanding of OCP positioning in Japan and interoperability with worldwide movements
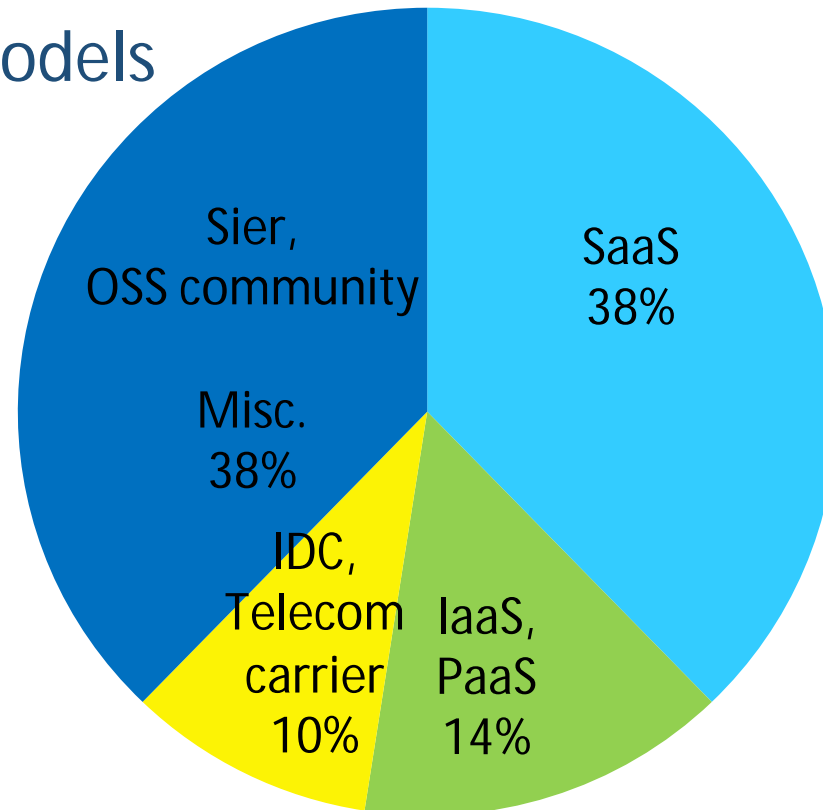
OCP-J Interoperability Plan

Topics:

❑ Introducing Cloud Business Alliance (CBA)
❑ CBA working group and OCPJ
❑ Japanese Cloud service providers and OCPJ
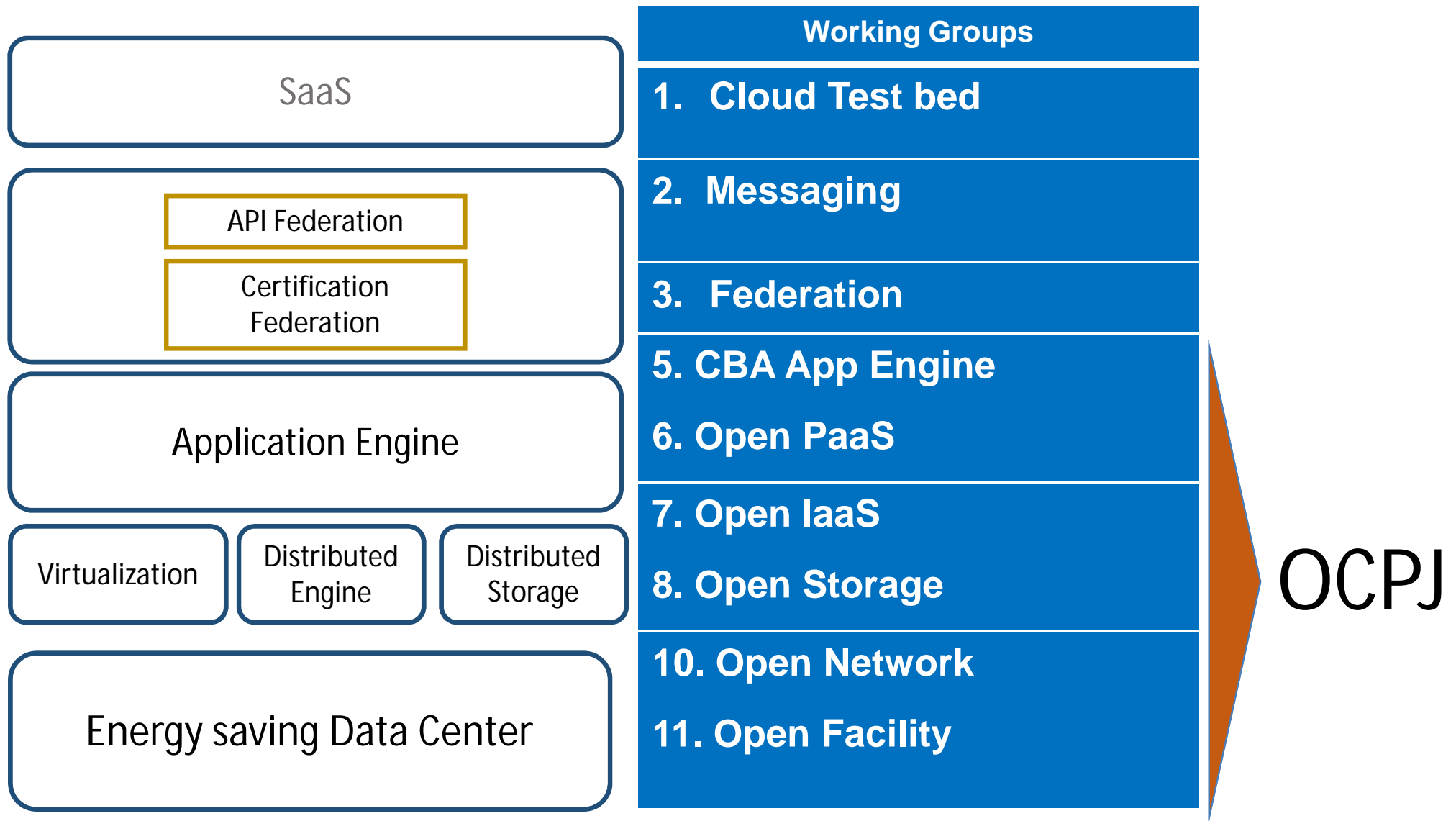❑ OCPJ lab plan

Cloud Business Alliance (CBA)

- ❑ CBA nonprofit organization
- ❑ CBA established in 2009
- ❑ 270 members from various organizations
- ❑ Japan domestic organization
- ❑ Deploy Open Systems models

CBA members distribution map

Business Cloud Alliance

SaaS
38%

IaaS,
PaaS
14%

IDC,
Telecom
carrier
10%

Misc.
38%

Sier,
OSS community

CBA Working Groups and OCPJ relationship

SaaS	**Working Groups**
	1. **Cloud Test bed**
API Federation	2. **Messaging**
Certification Federation	3. **Federation**
Application Engine	5. CBA App Engine 6. Open PaaS
Virtualization / Distributed Engine / Distributed Storage	7. Open IaaS 8. Open Storage
Energy saving Data Center	10. Open Network 11. Open Facility

OCPJ

All working groups develop framework and contribute to government projects.

OCP-J members from CBA Infrastructure working Groups .

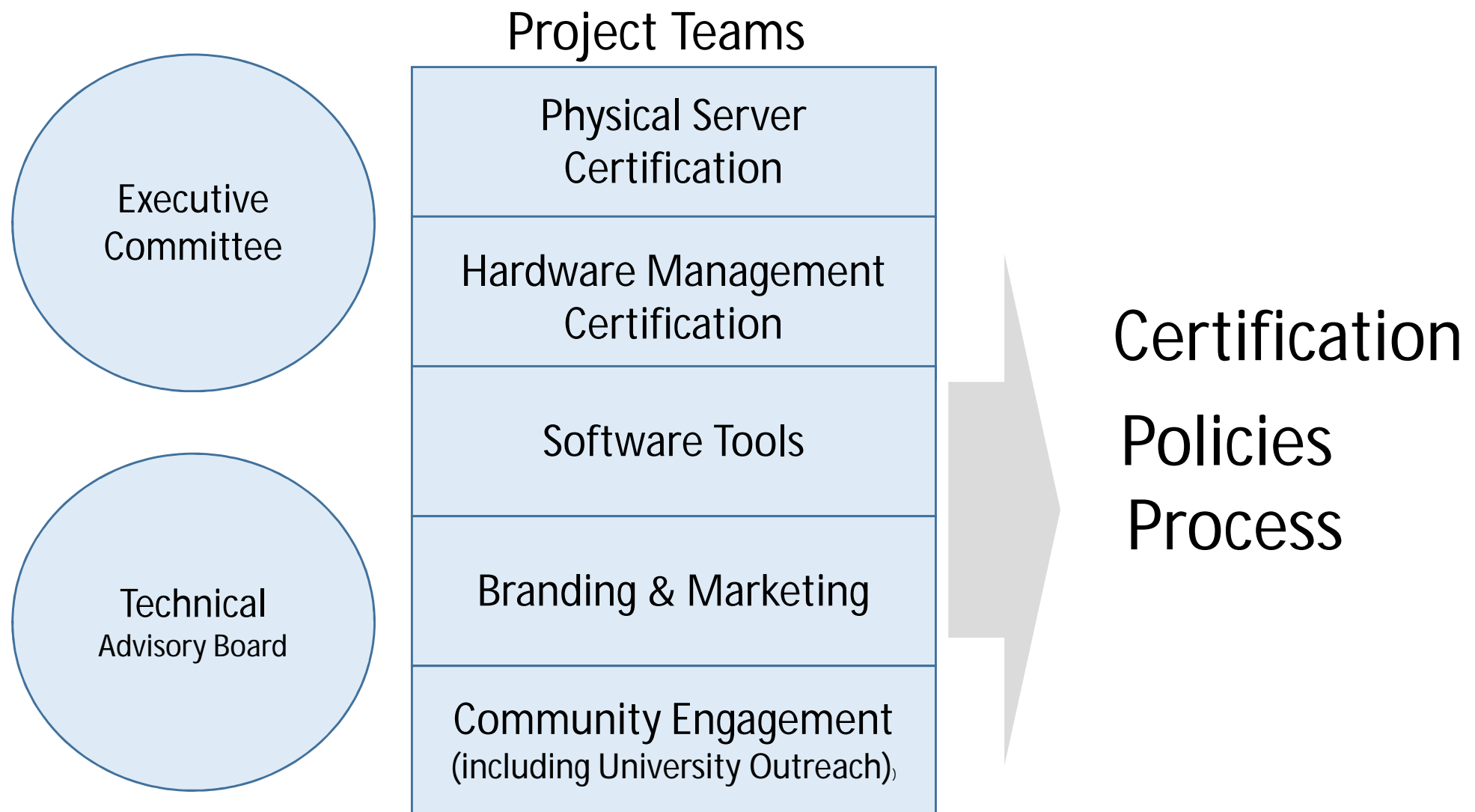# Working Groups Project – Transportable Data Center

compliance Container DC

▶ ISO compliance

▶ DC Direct Current) Servers

▶ Over 500 half-size servers x 8 racks

▶ Air-side economizer

This is an example of the infrastructure working group project.
This Container DC service launched in April, 2013.

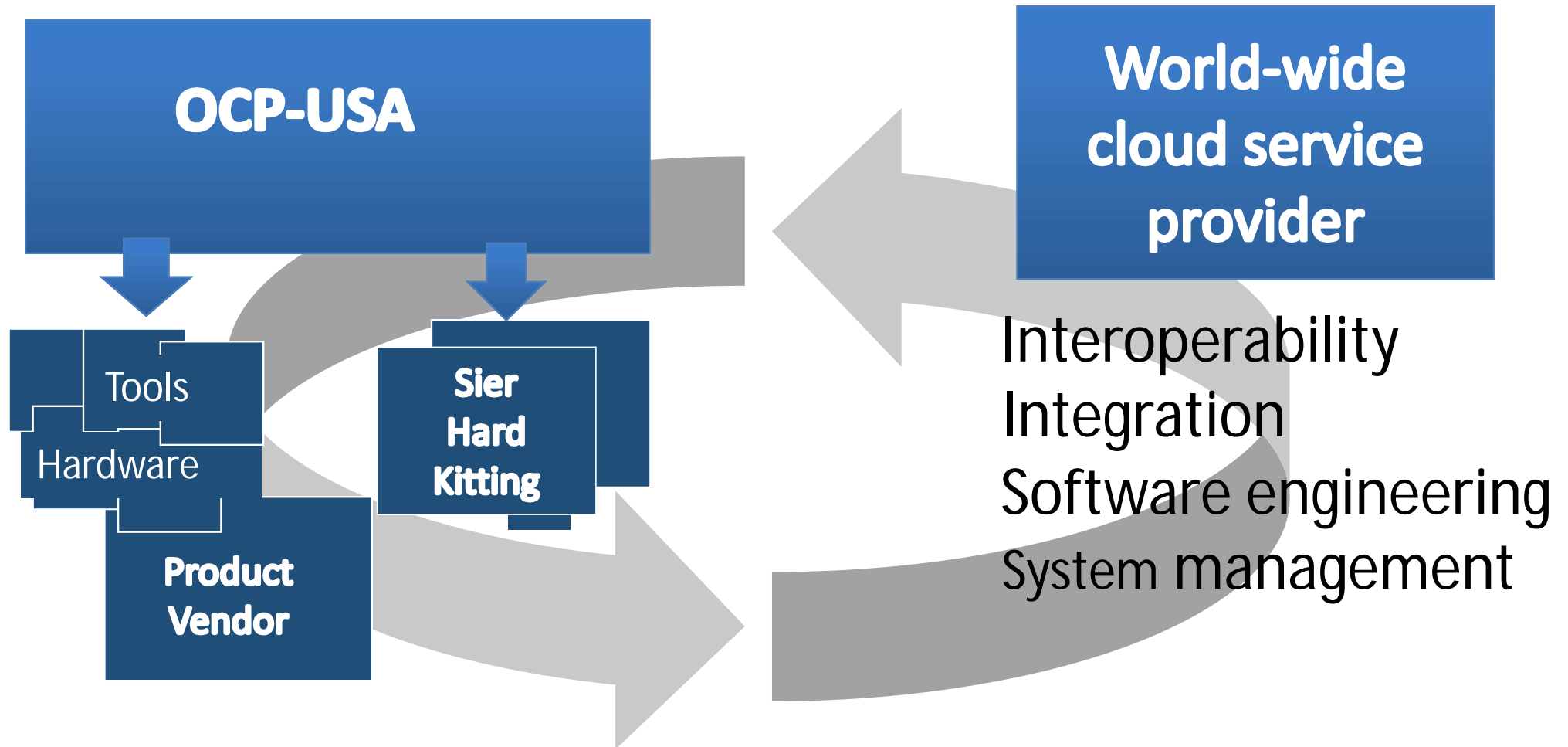Cloud Business Alliance

OCPJ Lab Plan

OCP Certification Project in the US

Project Teams

- Executive Committee
- Technical Advisory Board

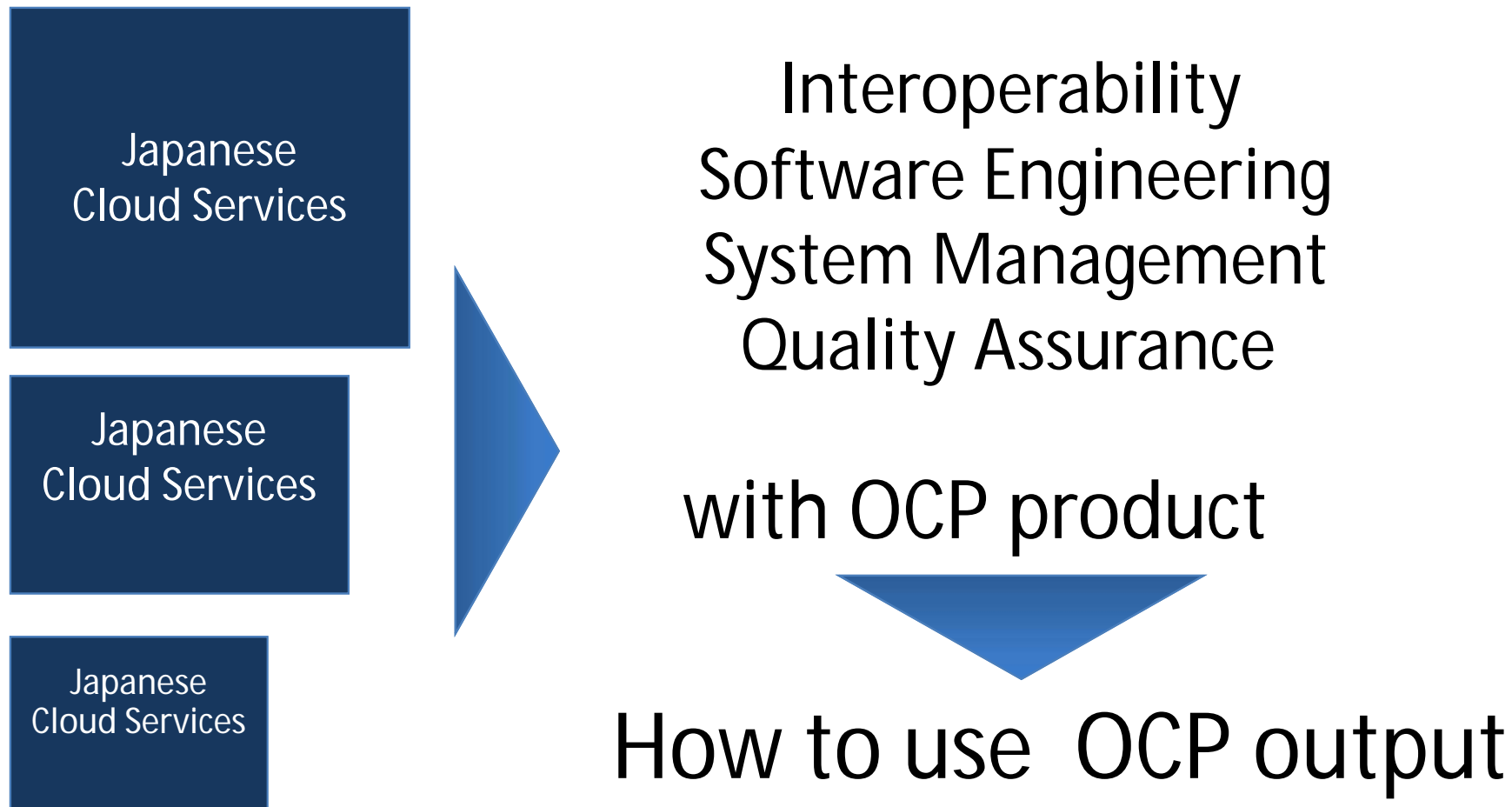| Project Teams |
| --- |
| Physical Server Certification |
| Hardware Management Certification |
| Software Tools |
| Branding & Marketing |
| Community Engagement (including University Outreach) |

Certification Policies Process

The OCP C&I working group is currently working to finalize the certifications details. The OCP-J will summarized certification plans based on the proposed Charter For Compliance & Interoperability - 12-05-2012.

OCP Positioning in the USA Relation with Service Providers Outside of Japan

OCP-USA

Tools

Hardware

Product Vendor

Sier Hard Kitting

World-wide cloud service provider

Interoperability
Integration
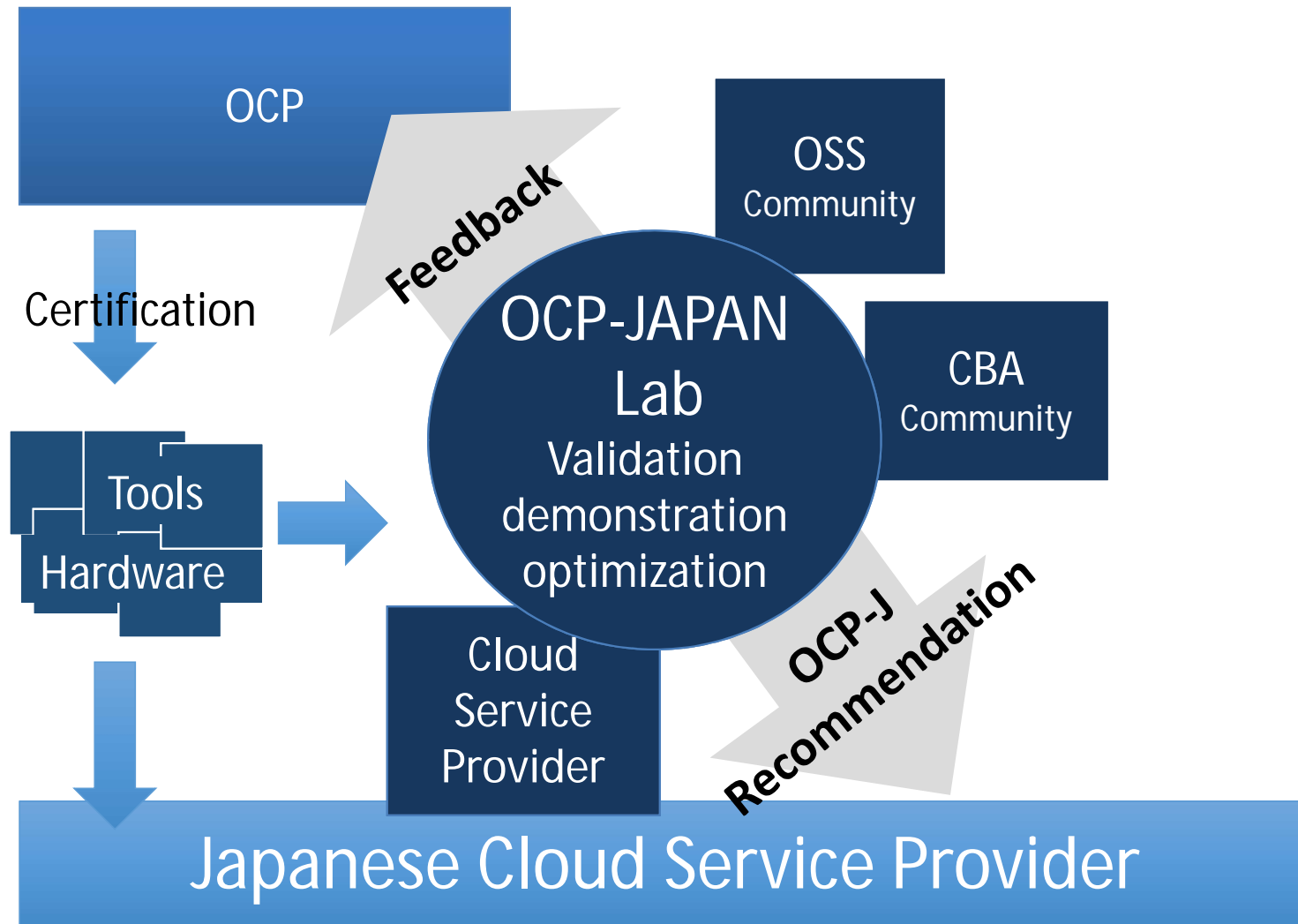Software engineering
System management

Cloud service provider request is reflected through the OCP-USA Working Groups. Operational engineering capabilities are high, and US service is available in products recently certified by the OCP.

Japanese Cloud Service Provider Needs

Japanese Cloud Services

Japanese Cloud Services

Japanese Cloud Services

Interoperability
Software Engineering
System Management
Quality Assurance

with OCP product

How to use OCP output

Japanese service provider's domestic base can't join OCP WG directory as they are now learning this new type of engineering.

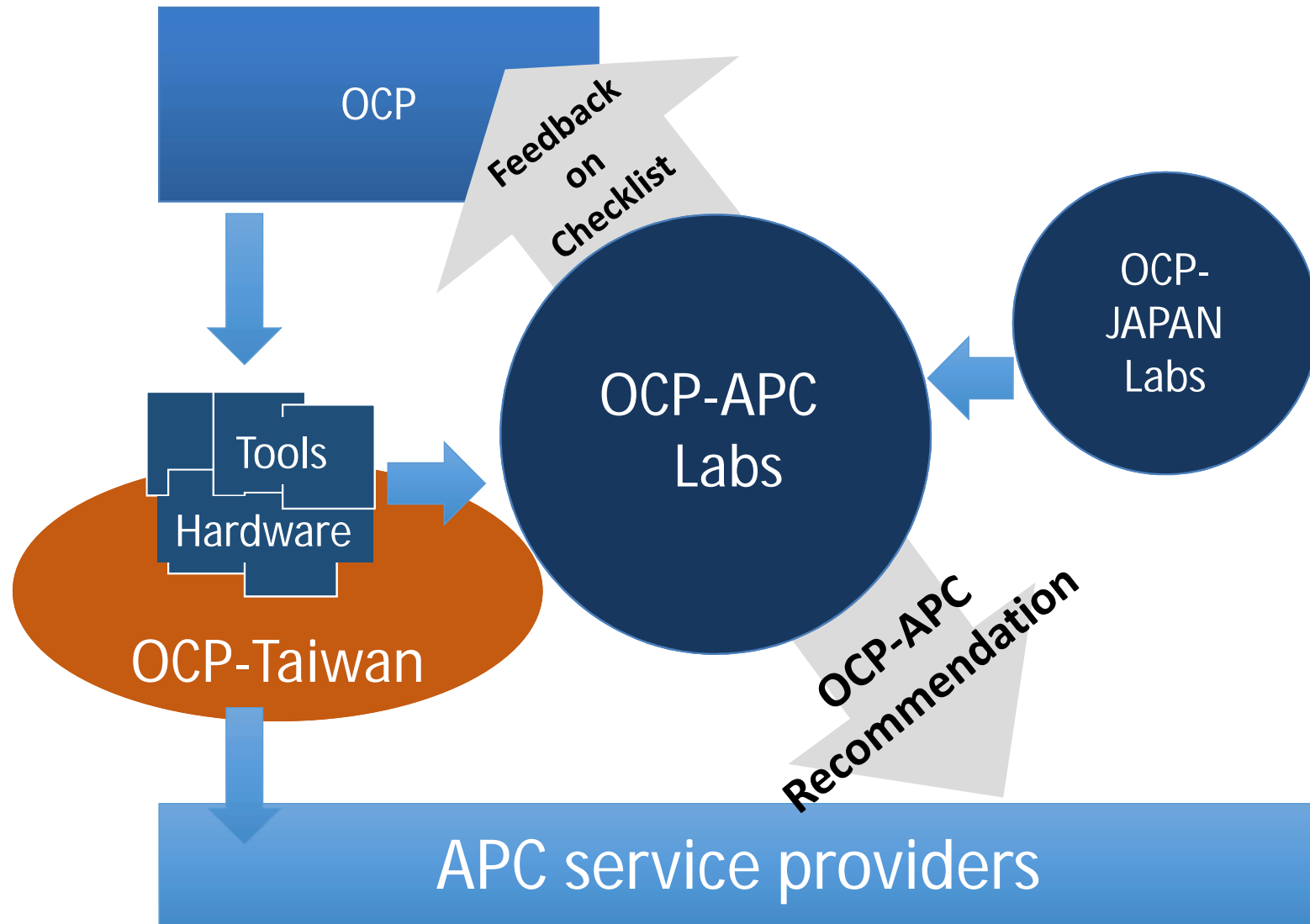# Planning for the OCPJ Lab for Expanding Opportunities Worldwide

We created a lab to verify the OCP Output based on the Japanese service provider's request. The implementation of the service provider's request included a 'Proof of Concept' with OCP output.

OCP-J Lab recommendation for Japanese users will create an expanding awareness of OCP activities

Expected Role of OCP-Japan Lab

- OCP-Japan Lab
  - OCP certification
    - ~certified under OCP standard
  - OCP-Japan recommendation
    - ~local spec, software layer,
      Open Source compatibility,
      Proof of Concept
  - Members
    OCPJ, CBA, Open Source community
    with domestic cloud service providers

  - Feedback on specification for certification

OCP-APC Lab with OCP-Taiwan

OCP

Feedback on Checklist

OCP-APC Labs

OCP-JAPAN Labs

Tools

Hardware

OCP-Taiwan

OCP-APC Recommendation

APC service providers

Many OCP product vendors in Taiwan provide hardware based on OCP (USA) requests.
By coordinating Taiwan and OCP-Japan, we can further increase OCP output in Asia Pacific!!

OCPJ lab plan goals

The goals are:

❑Create strong branding in Japan, Asia Pacific, then worldwide

❑Expanding awareness of OCP activities

OCPJ lab. In Aizu --- idea

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May 27, 2013

2 Types of OCPJ Lab

- OCP-J Lab
  - Certification
    - OCP Certified (certify under OCP standard)
    - OCP Certified OCPJ+ (suggestion): local spec, software layer, ...
  - Feedback on Specification for certify
  - e.g. ABC Company

OCP innovation labs?

- OCP-J Lab for the future
  - Suggest specification for certify
  - Research
    - Open Source Compatibility: e.g. OpenStack, OS, SDN
    - Application Framework (-> discuss on DAY2 Session)
    - Measurement of Runtime Efficiency (-> discuss on DAY2 Session)
  - e.g. University of Aizu, ...

OCP labs?

Geographic profile for Fukushima

Under Reconstruction from the Great East Japan Earthquake

200km (125 mile　from Tokyo
Beautiful Nature
Clear Water
Famous Rice Production

札幌

400km

200km

新潟　仙台

福島県

広島　大阪　東京

福岡　名古屋

那覇

From Home Page of Fukushima pref.

Beautiful Nature area

Rice Planting in Aizu

Tsuruga-jo castle

The University of Aizu

- Established in 1993 at Aizu-wakamatsu city
  - 20 years anniversary
  - Aizu area in Fukushima Pref.
- First "Computer Science" school in Japan
  - "Information technology" is famous
- Didn't have direct damage by the Earthquake
- Key Position of IT industry in the area
- For the Reconstruction, IT industry is necessary in there
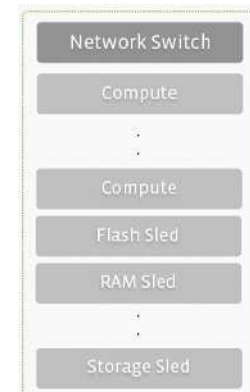
University of Aizu (OCPJ Lab for the future)

Mission: Contribute to OCP

- Research for the future
  - Measurement of Runtime Efficiency (-> discuss on DAY2 Session)
  - Application Framework (-> discuss on DAY2 Session)
  - Open source compatibility: e.g. OpenStack, …

- Suggest new C&I checklist

- Contribute to open source community

Hardware for research

- Disaggregated Rack x 1 (Graph Search type set)
- OCP server x 3
- OCP switch x 3

Now Planting for the good Future

CBA boost "OCP Certified"

CBA boost to make OCP a strong brand in Asia.

Thank you