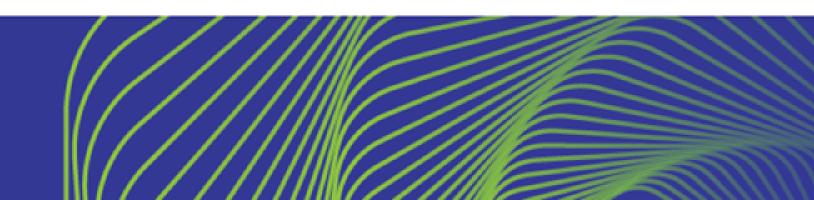


How effective was OCP adoption in Yahoo! JAPAN Infrastructure as Non-Board Member of OCP

Kazuhide Fujimi / Server Infra. Architect / Yahoo Japan Corporation





Server Track





Today's Agenda

Introduction

- About Yahoo! JAPAN
- About Speaker -
- **Overview OCP adoption at Yahoo! JAPAN**

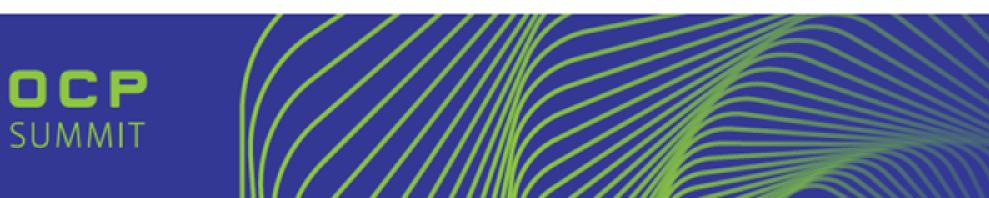
How effective OCP

- Cost Saving
- Operational Efficiency / Enhanced Relationship

Challenges for OCP adoption

Delivery / Internal Coordinate / Lead Time







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About Company (1/2) YAHOO! JAPAN . Characteristics of Yahoo! JAPAN Over100 various services and high quality data







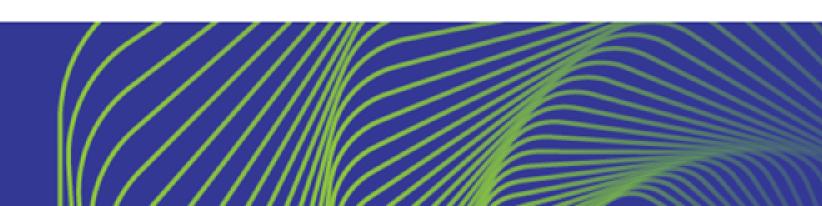
Over 6,000 Employees

Over 20 years Company History

(Founded in January 31, 1996)



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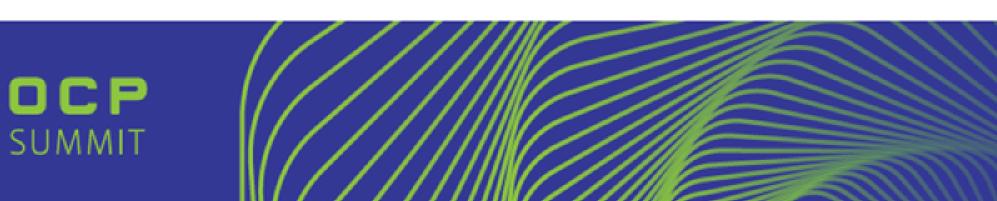


About Company (2/2)

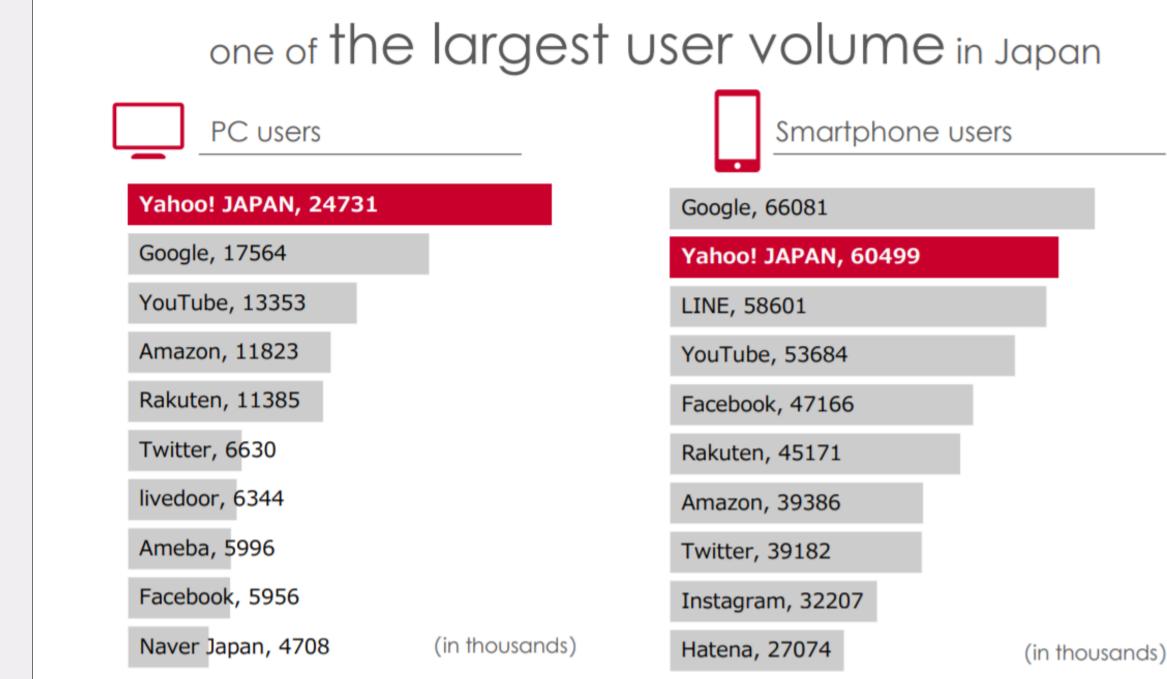








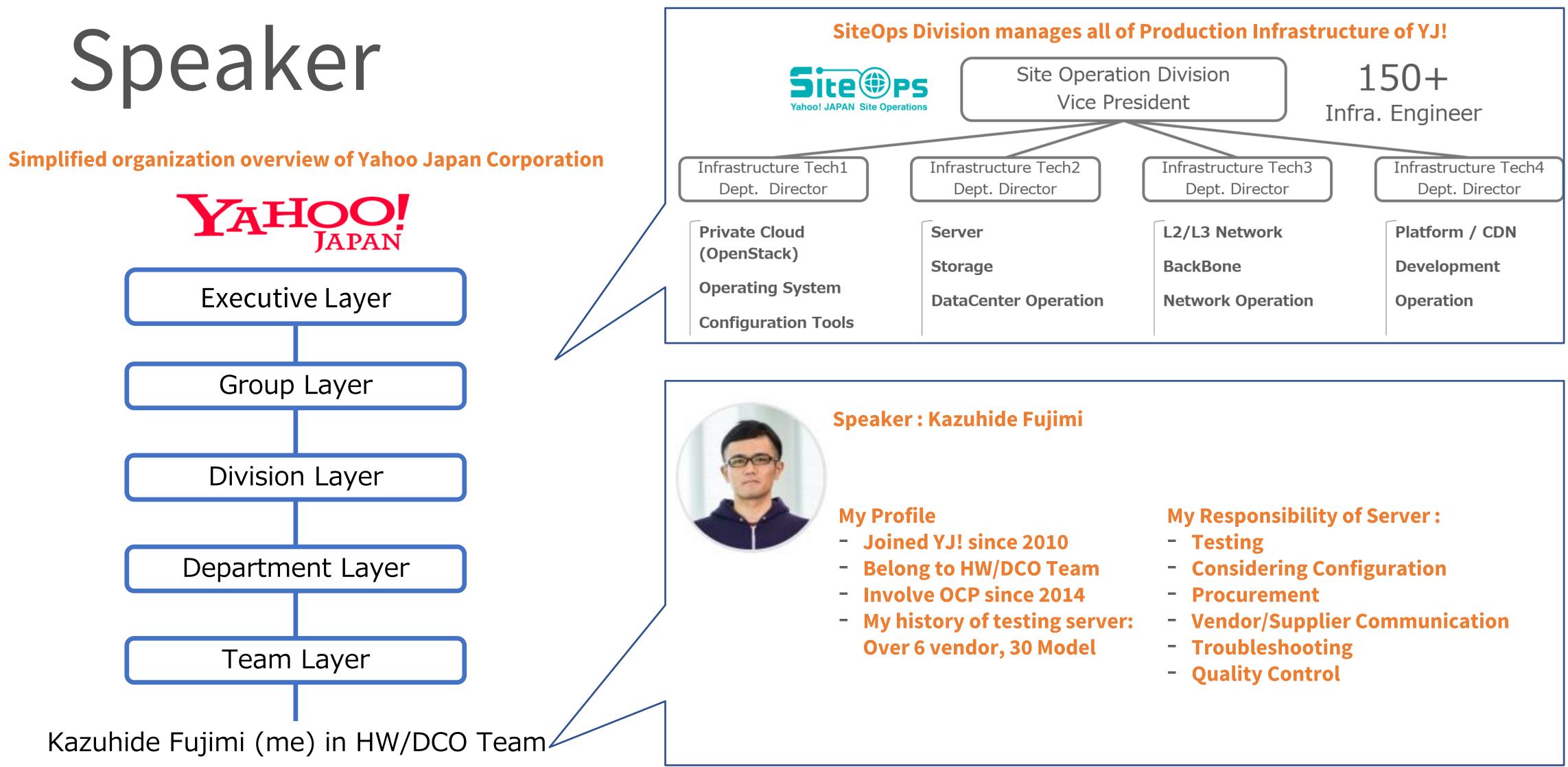




*Source: "Nielsen NetView" PC access from home or office (excluding internet apps), "Nielsen Mobile NetView" Smartphone access (including apps). Average of April to September 2018 summarized by brand level. Calculated by Yahoo! JAPAN from "Nielsen NetView Custom Data feed".



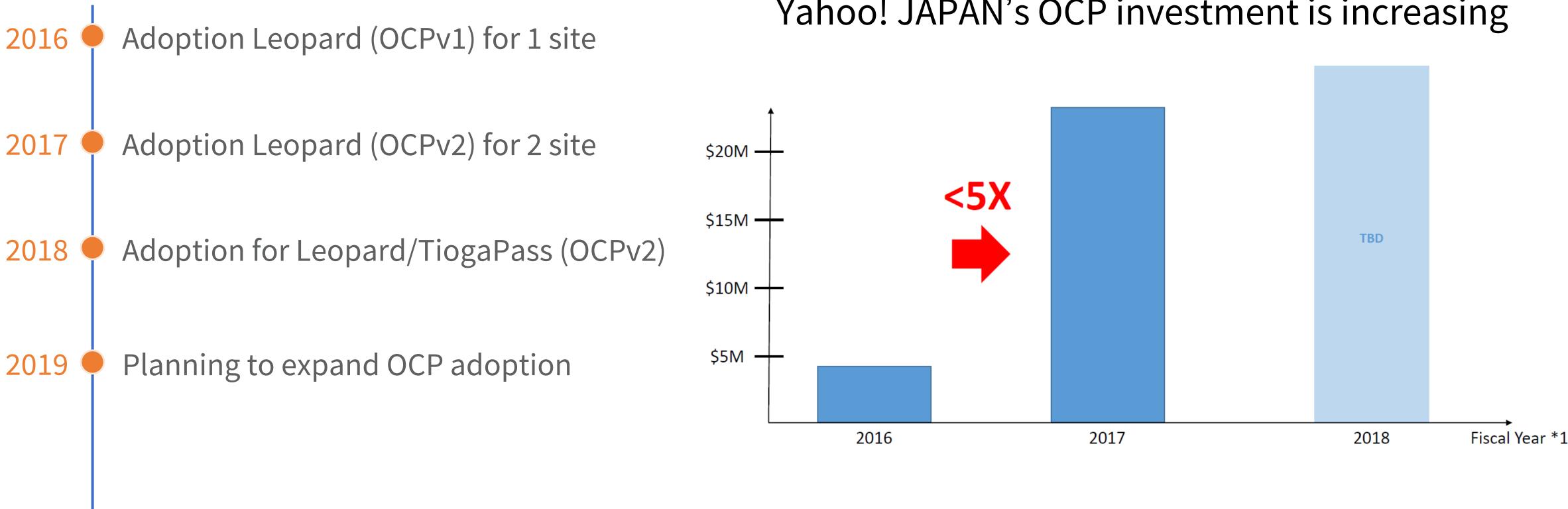




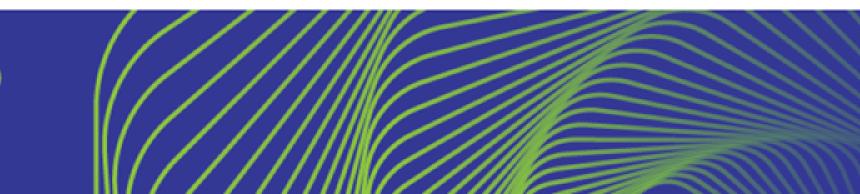




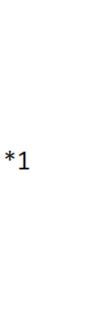
OCP Journey of Yahoo! JAPAN







Yahoo! JAPAN's OCP investment is increasing





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How effective of OCP adoption

1. CAPEX Saving

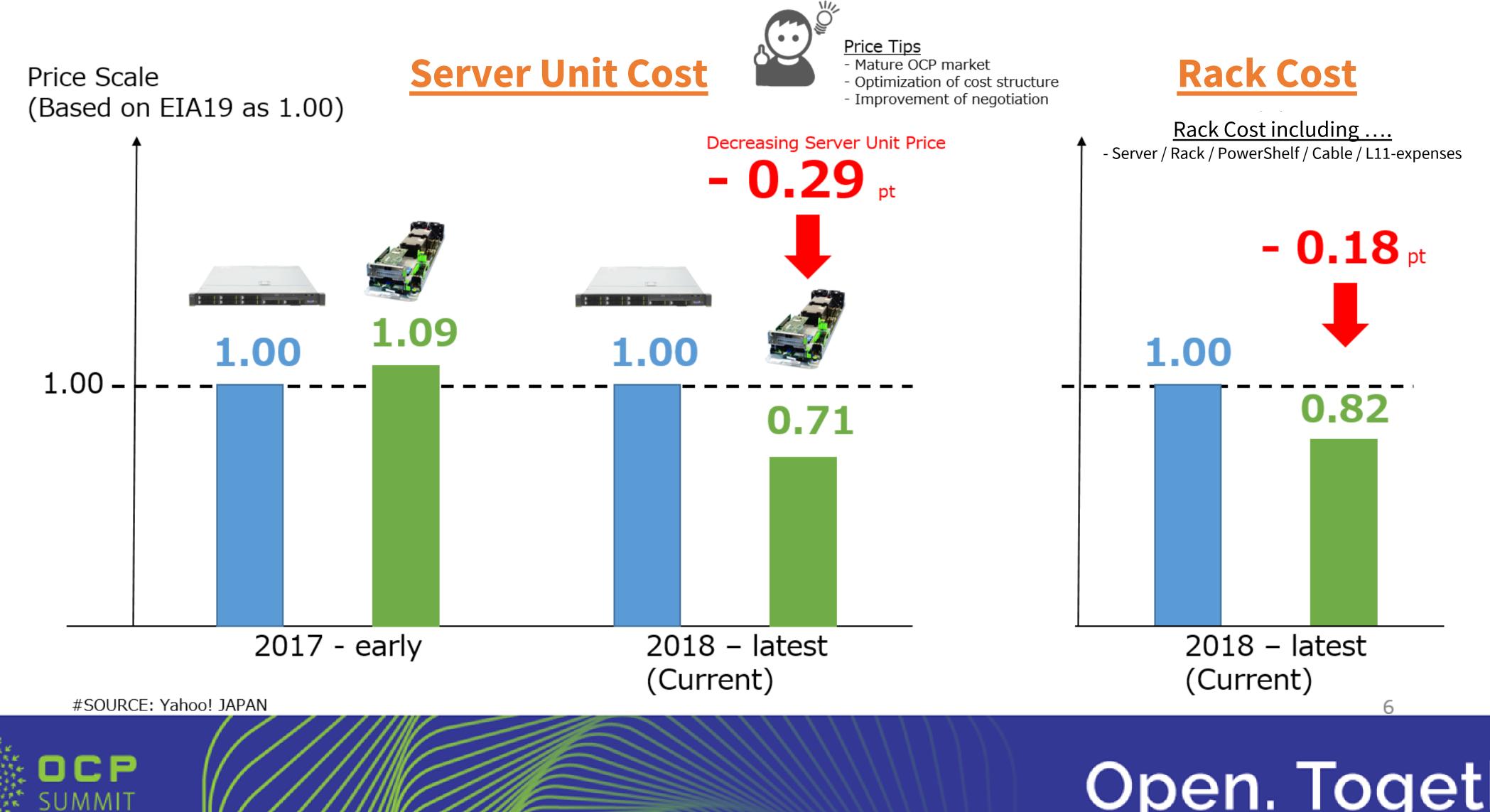
- Saved 29% / server unit cost
- Saved 18% / rack (without OPEX)

- 2. Operational Efficiency / Enhanced Relationship - Removing Rail/Tools/Rear-Ops for enhancing Ops - OCP style for enhancing Relationship of Manufacturer





Cost Reduction of Initial/TCO





How? – CAPEX Saving

L. Tight Relationship

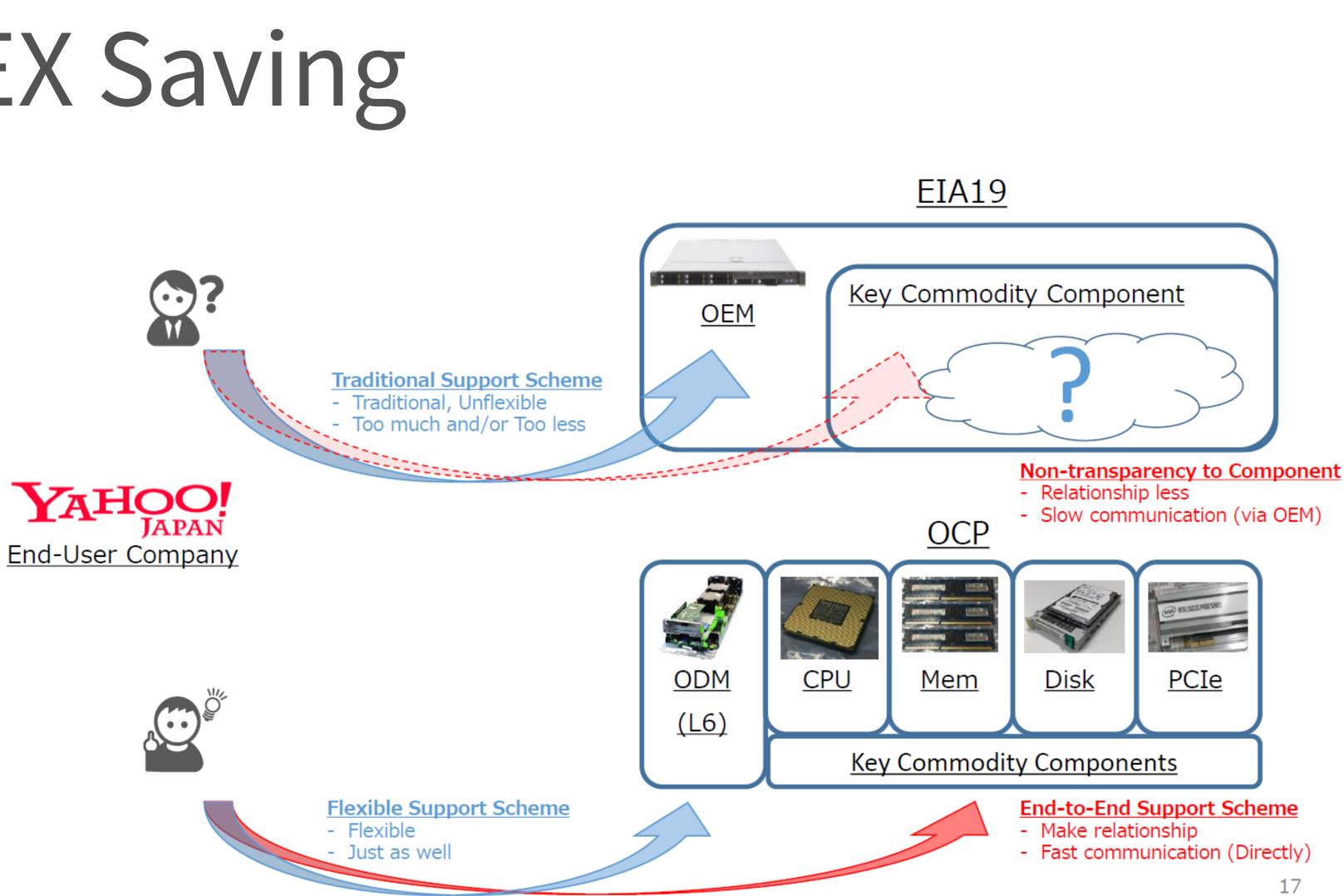
Can approach to ODM/Key Commodity Supplier directory and/or via OCP SP

Distribution/Price control process improved transparency

2. Maturity of JP Market

More OCP vendors entered JP Market ever

More Competition

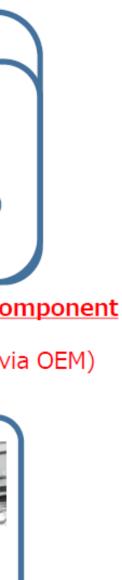








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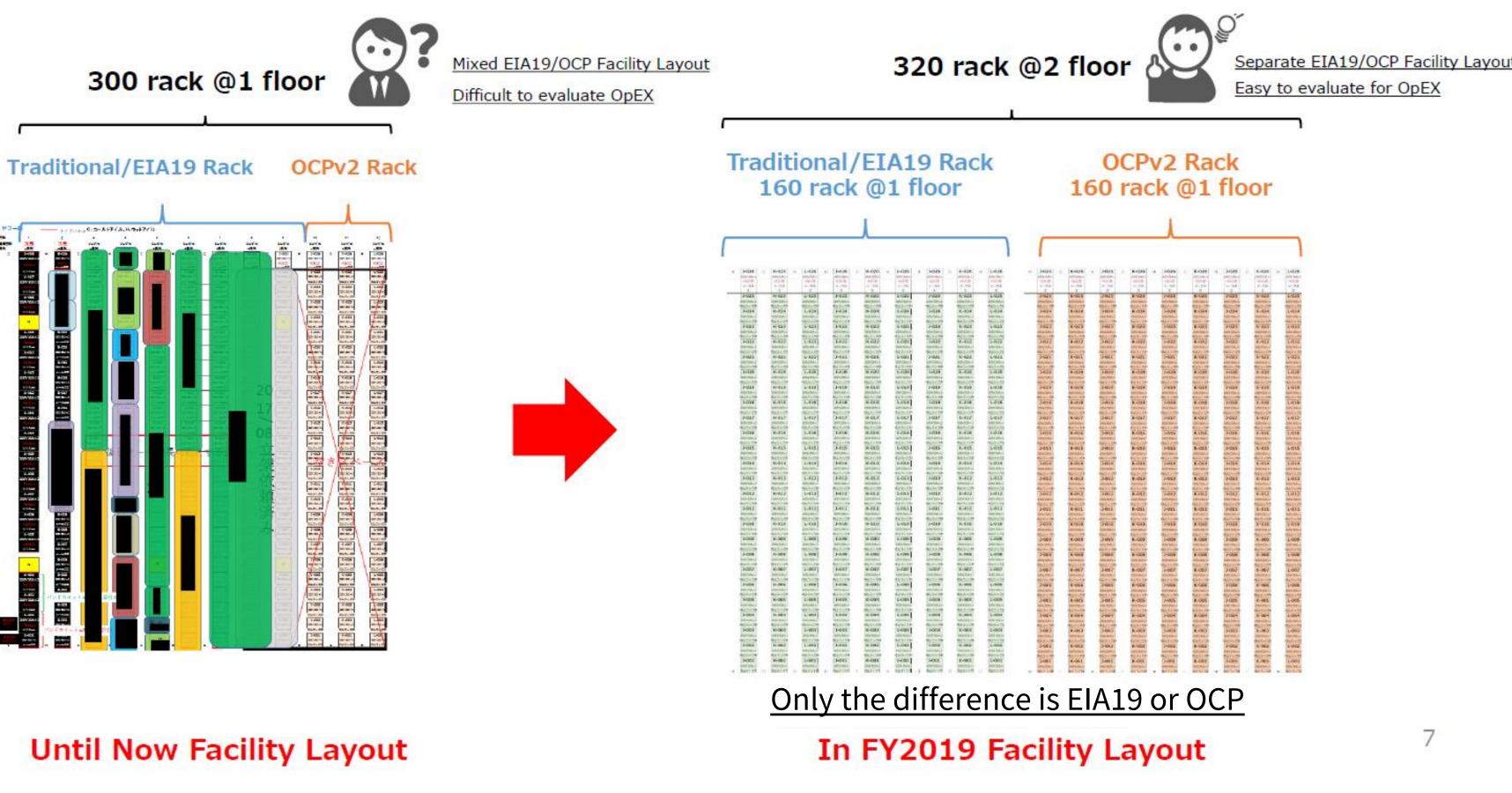
How about? – OPEX Saving

Before

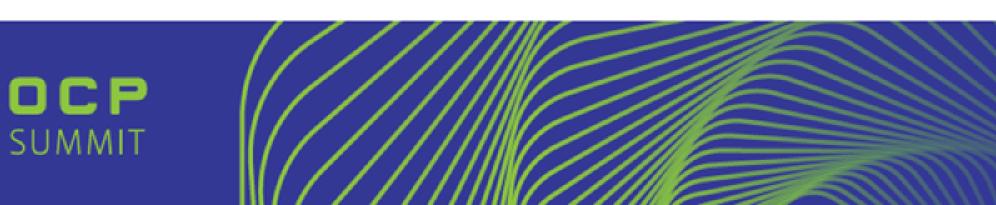
Facility layout is not considering OCP (Not measureable)

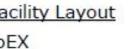
After

- Facility layout is considering OCP (measureable)
- Fair environment to validate OPEX
- Involving facility team











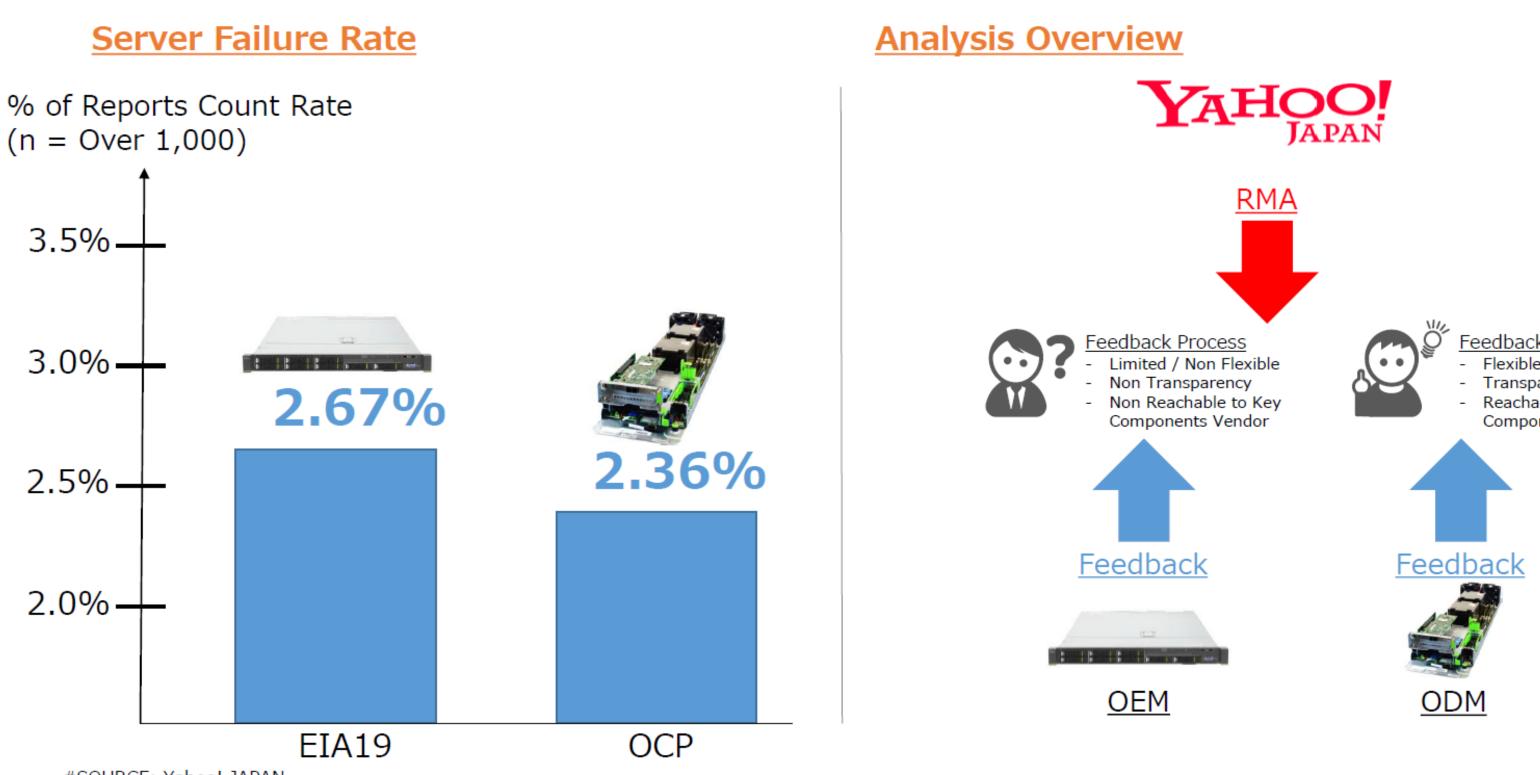


Operation/Relationship(1/2)

Break down

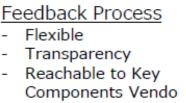
Operational Efficiency

- Reducing Operation Step for Data Center Staff
- Reducing Racking Trouble
- Reducing Compatibility of Server Components
- Improving Failure Rate / Failure Feedback loop



#SOURCE: Yahoo! JAPAN





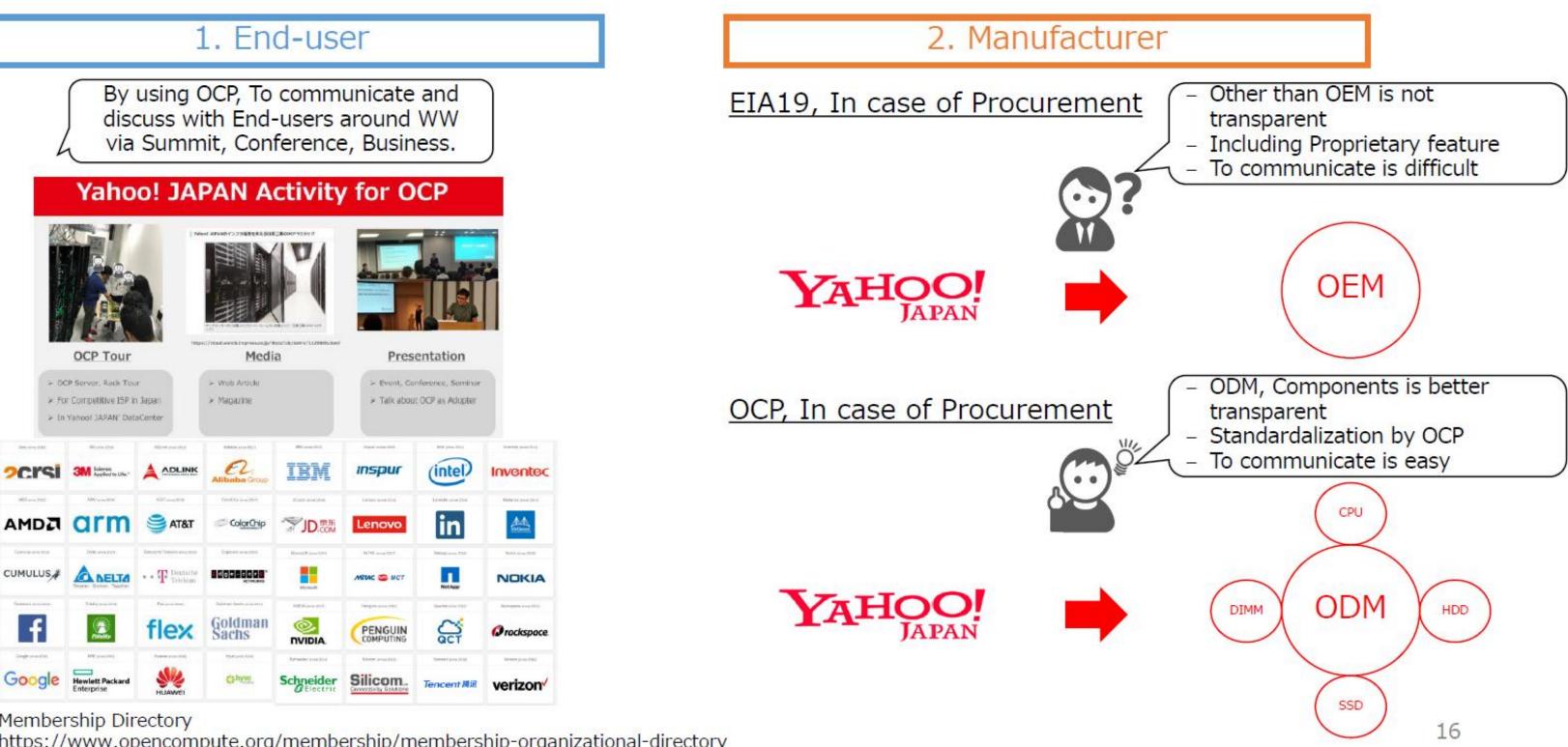


Operation/Relationship(2/2)

Break down

Enhanced Relationship

- To make relationship with Manufacturer side
- To drive communication with each End-user
- To have common view about Infra.



Membership Directory https://www.opencompute.org/membership/membership-organizational-directory



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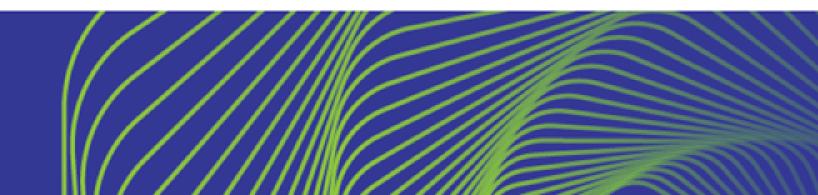
- **Cost Reduction**
- Enhanced Operation/Relationship

Challenges for OCP adoption

Delivery / Internal Coordinate / Lead Time -







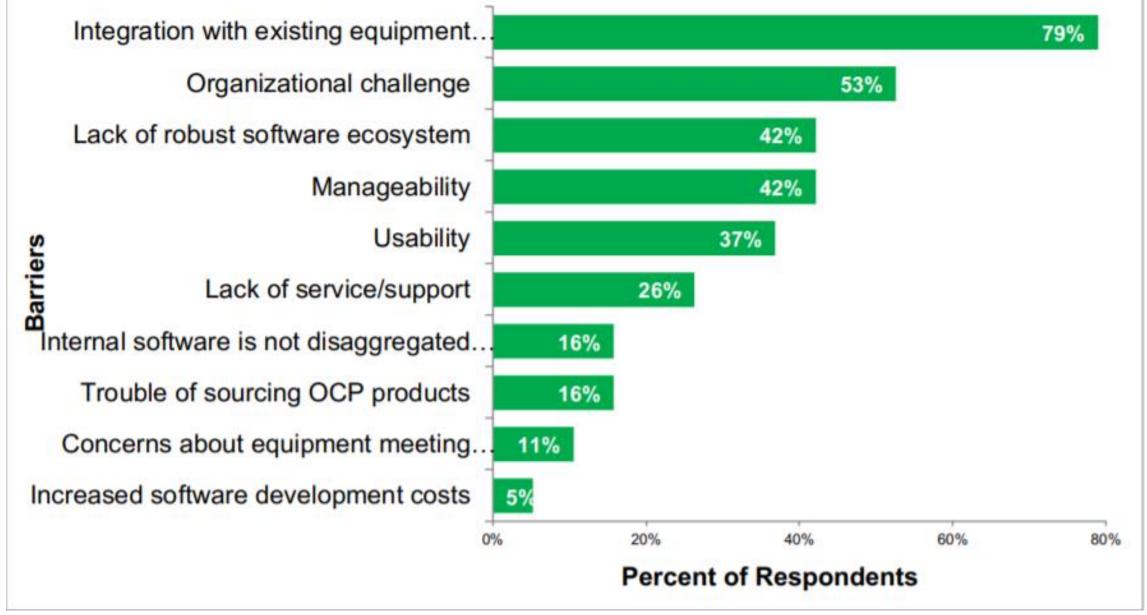


Challenges for OCP adoption

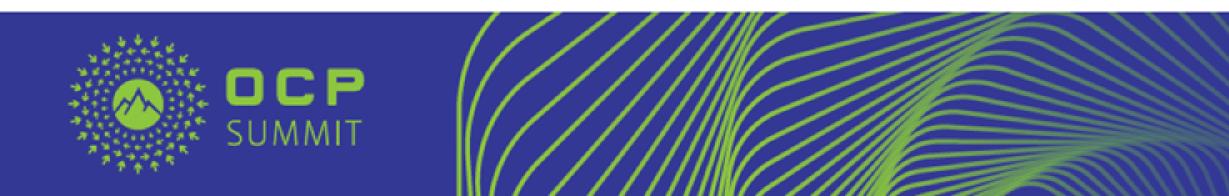
Barriers of OCP Adoption

Excellent

Presentation



https://www.opencompute.org/files/Final-Delivery-IHS-Markit-OCP-Market-Impact-Study-for-Circulation-18-0227-cg2.pdf



We have same Barriers

Delivery at our Data Center

- Japan Data Center has specific specification
- Not common with L11 delivery

Internal Coordination

- Need to across the organization for procurement
- Concerned about serviceability/business requirement

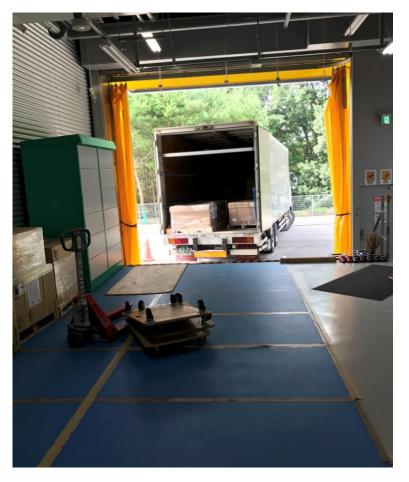
Lead Time

- OCP's delivery takes long time
- Does not meet server demand



Delivery at our Data Center

Not enough Space entrance of DC for L11



Some issues for Delivery



Not optimized delivery route inside DC







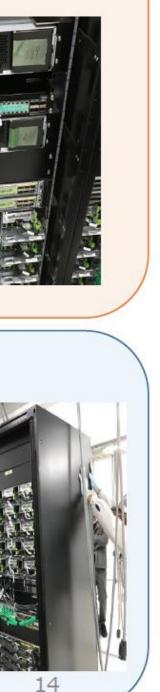




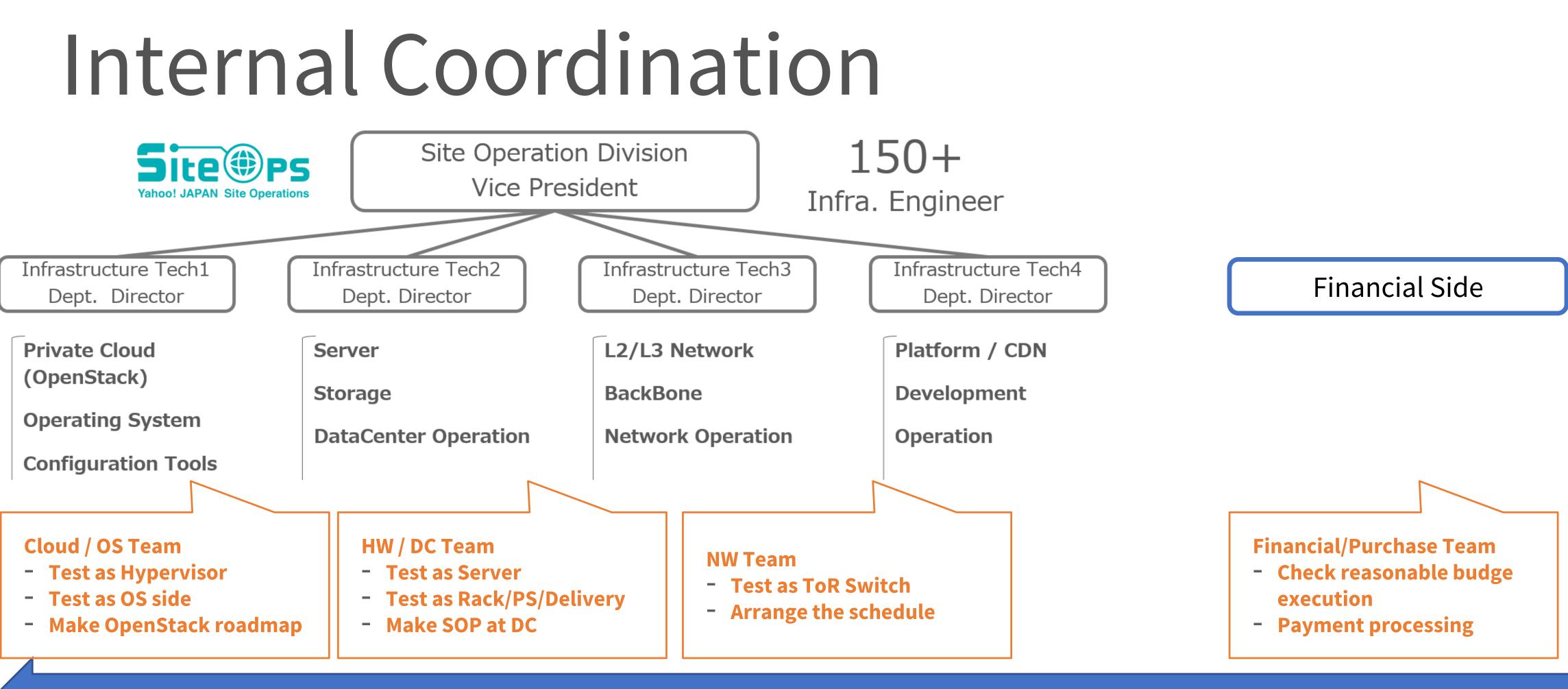




Level 11 (L11) is rack level delivery style without the work of assembly on DC.









Coordinate/Communication/Negotiation Loop

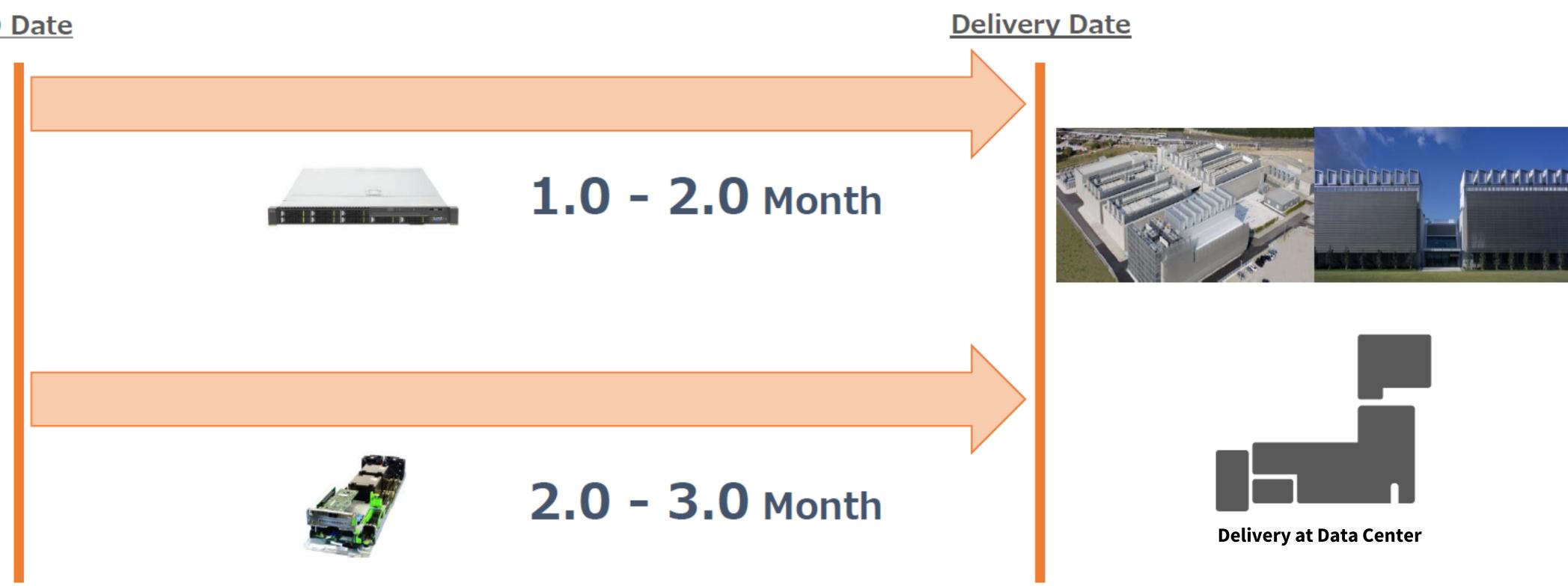




Lead Time

#SOURCE: Yahoo! JAPAN

PO Date









Conclusion

We are now

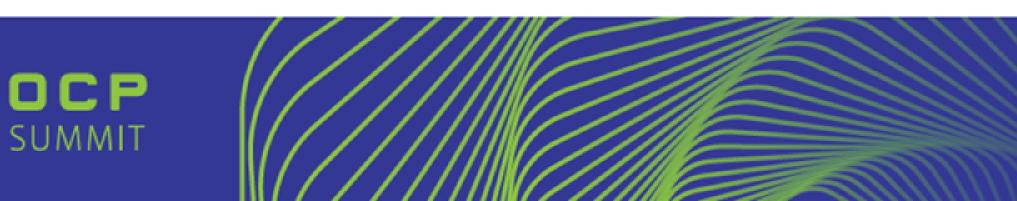
Planning to expand OCP Infra.

- Advantage of CAPEX Cost / Operation
- Plan to estimate OPEX with FY2019 Facility
- Improving relationship with End-user/Vendor

Addressing some challenges for even more OCP adoption

- Delivery / Internal Coordinate / Lead Time is barrier of OCP Adoption
- Continue to deal with these challenge





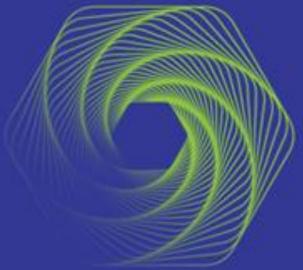








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