OpenUK

Disaggregation

OPEN
Compute Project

July 17, 2020

OEM

(Original Equipment Manufacturer)

Buys platform components from the manufacturer

Resells those components under their own brand name

Create products that can server the broadest possible market

Support and managed services

ODM/White Box

(Original Design Manufacturer or White Box)

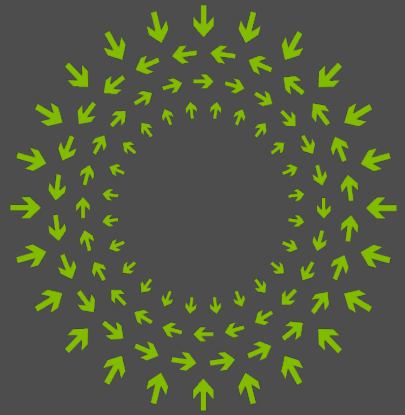
Manufactures platform components

Provide full product development services

Can manufacture specialised solutions

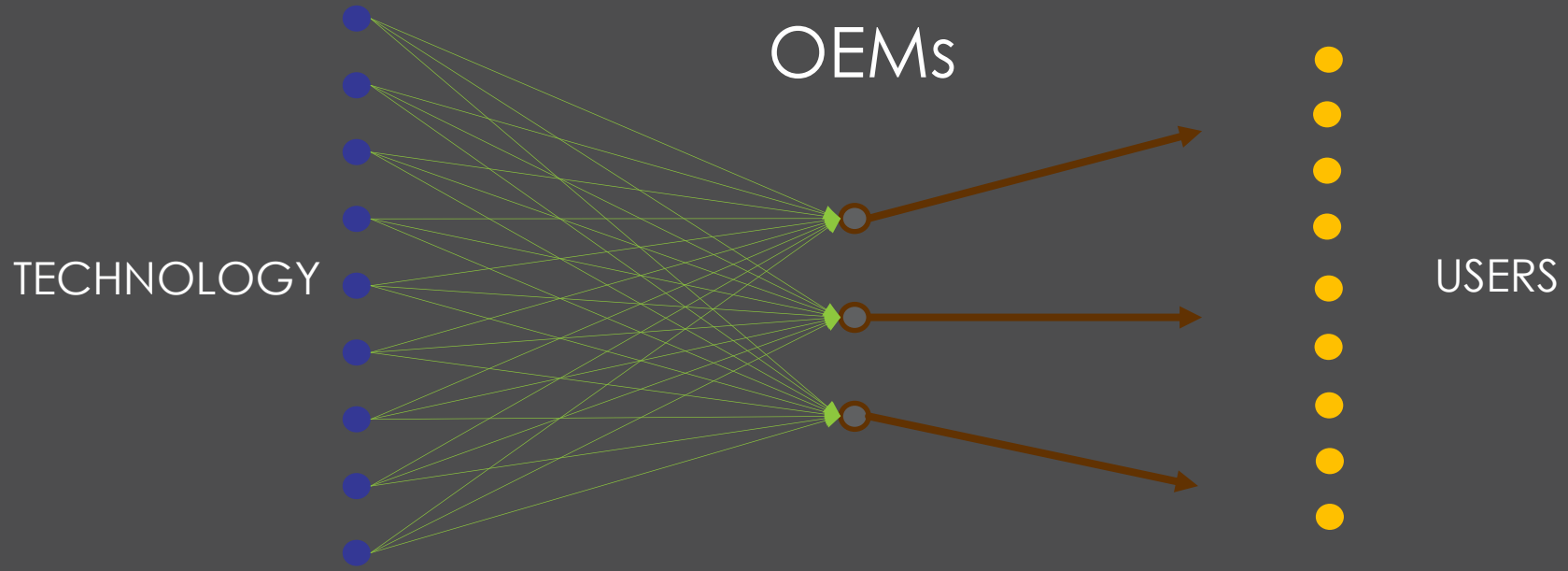
Support centred on product

ODM/White Box + Open Source

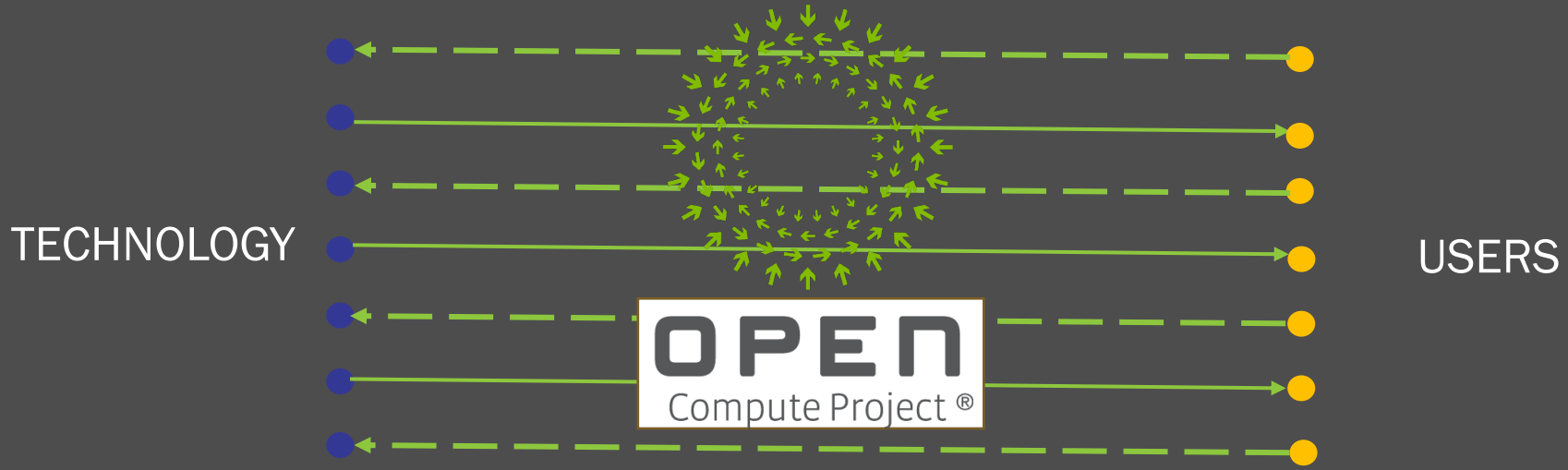


OPEN
Compute Project ®

The old innovation pipeline



“Creative Destruction”



COMPANIES > FACEBOOK

Facebook to Build Its Own Data Centers

Facebook has decided to begin building its own data centers, and may announce its first facility as soon as tomorrow. The fast-growing social network has previously leased server space from wholesale data center providers.

Rich Miller | Jan 20, 2010

What can we remove from the system?

Can we raise operating temperatures and have the servers survive?

Can we increase relative humidity operational ranges to make the system much more efficient?

Do we need a centralized power supplies?

Goldman Sachs
rackspace
intel
Open Compute Project
A collaborative community focused on redesigning hardware technology to efficiently support the growing demands on compute infrastructure.

150+ companies
6K engineers
189 contributions

Our Projects

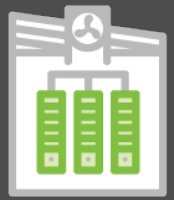
Networking

Server

Storage

Rack & Power

Advanced Cooling



Data Center

Telco

HW Mgmt

Open System Firmware

HPC

Security

Modular DC

openEDGE

https://www.opencompute.org/projects

Efficiency

Scale

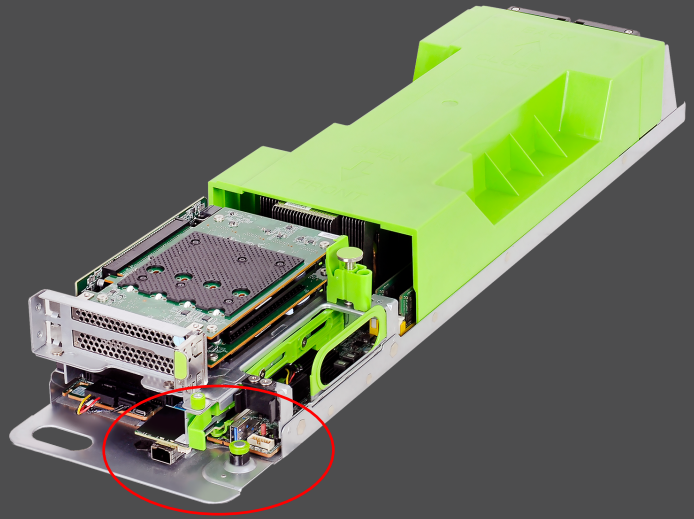
Impact

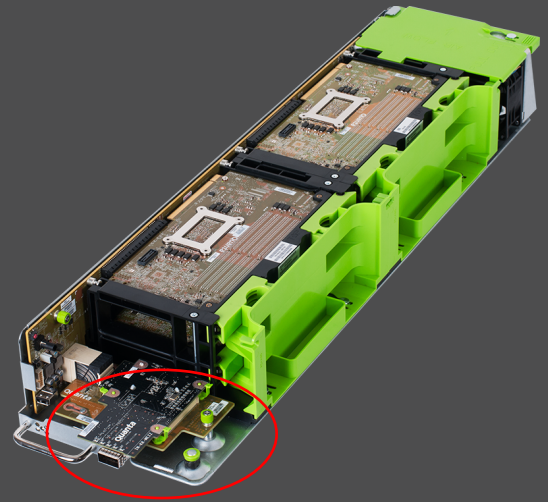
Openness

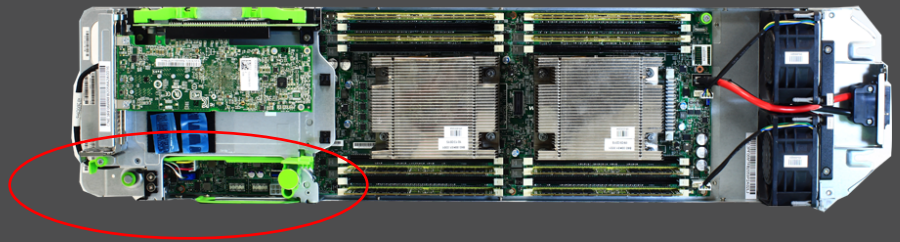
DELL EMC

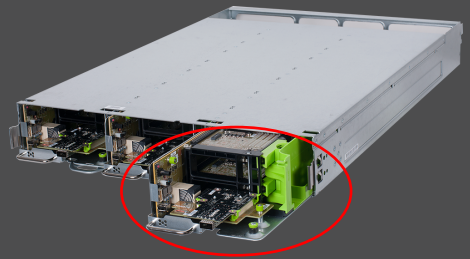
Gratuitous Differentiation

Tool less OCP vanity free open source cubby servers



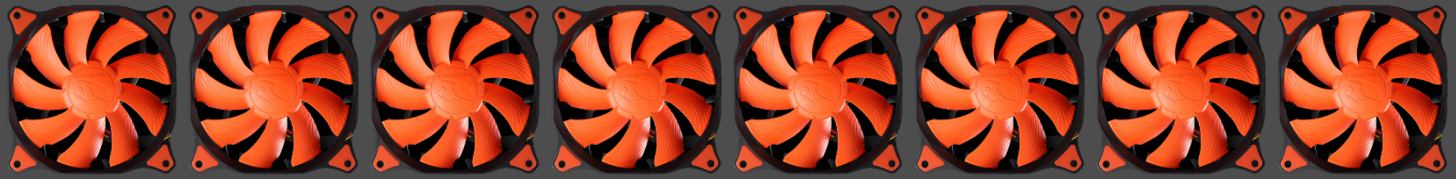






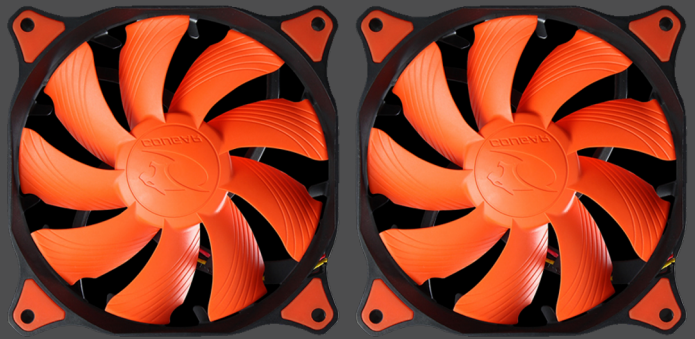
Open Rack Unit Innovations - Server Fans “Cube Law”

40 mm Fans



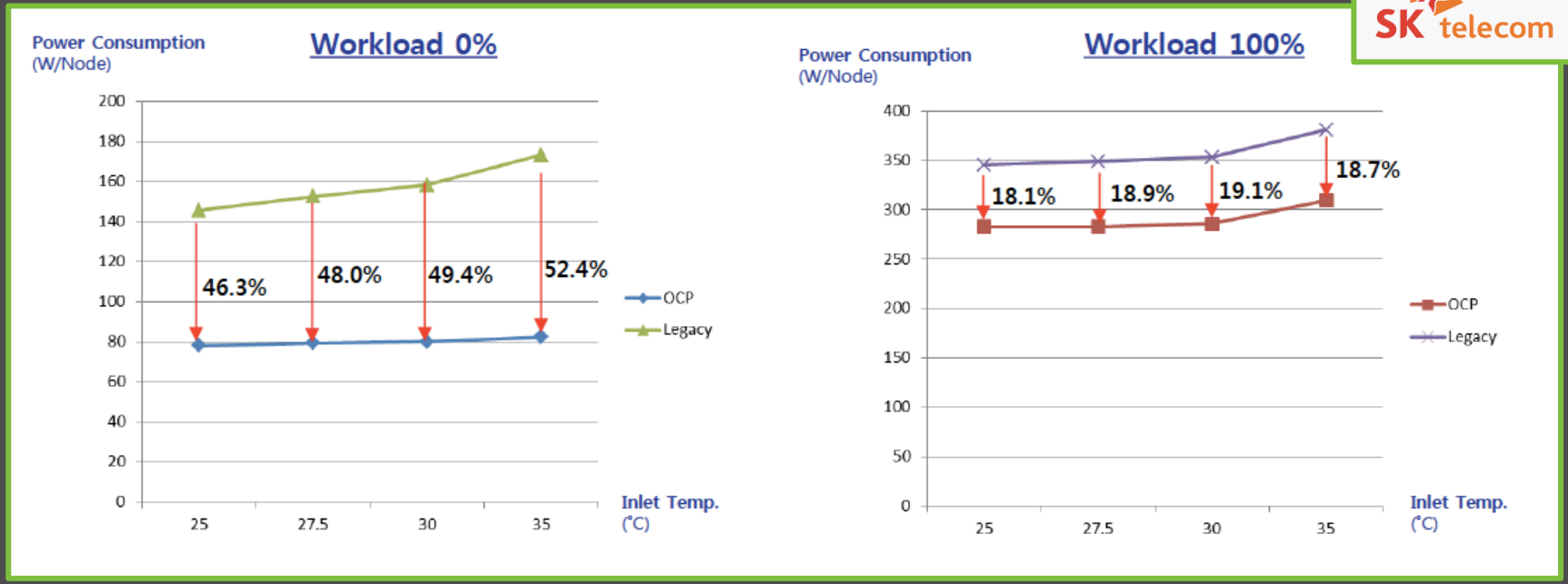
Traditional Server

80 mm Fans



OCP Server

Server Efficiency



https://www.opencompute.org/events/past-summits

European OCP Adoption

London Internet Exchange - First IXP in the world to adopt an open networking model

Link to Presentation

35% Reduction in TCO 30% Reduction in OPEX

Link to Presentation

Open Compute for Central Offices

Link to Presentation

Large European Cloud Provider – Liquid Cooled OCP

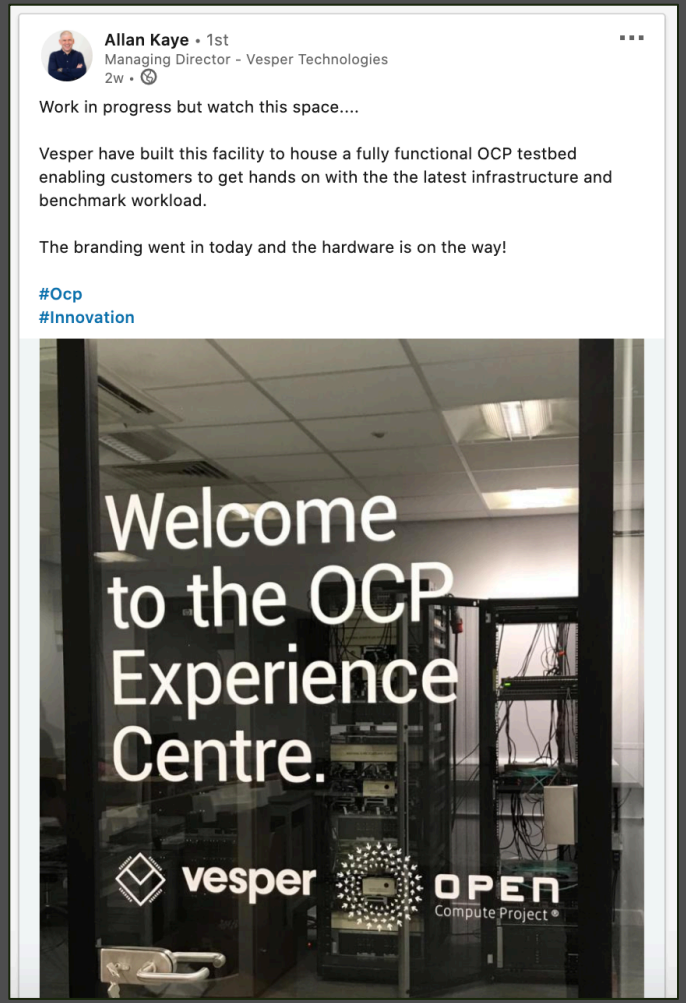
Link to Presentation

OPEN Compute Project

SOLUTION PROVIDER®

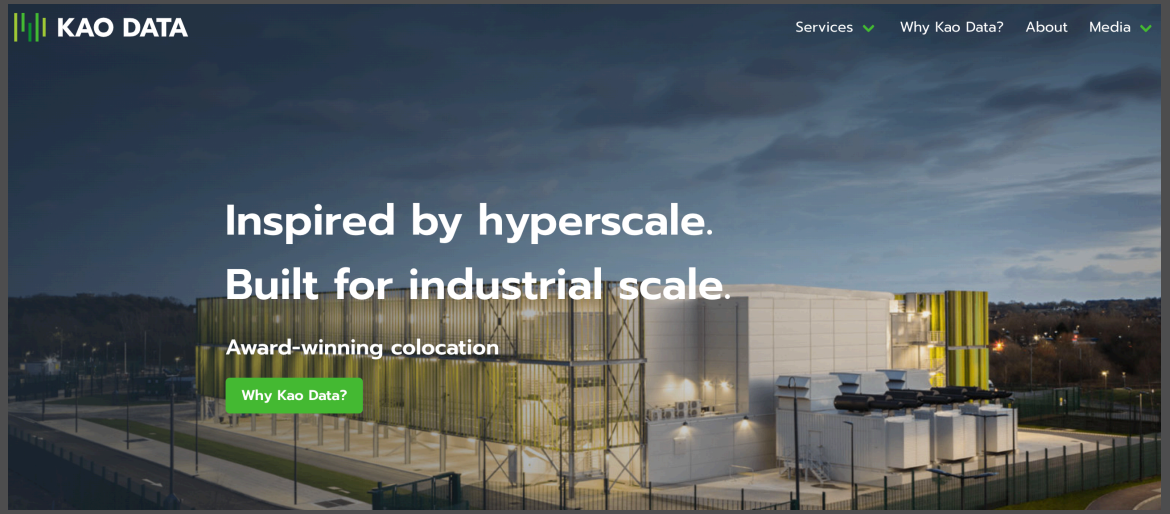
vesper

https://vespertec.com/



Crawley, UK)

https://www.rackspace.com/colocation



Harlow, UK)

https://kaodata.com/

OCP READY™

There is no such thing as "away" .....when we throw things away it must go somewhere.

Annie Leonard

46M servers to be “End of Life” (EOL’ed)” between 2019 and 2023

ELLEN MACARTHUR FOUNDATION

https://www.ellenmacarthurfoundation.org/

CEDaCI - Circular Economy for the Data Centre Industry

https://www.nweurope.eu/projects/project-search/cedaci-circular-economy-for-the-data-centre-industry/

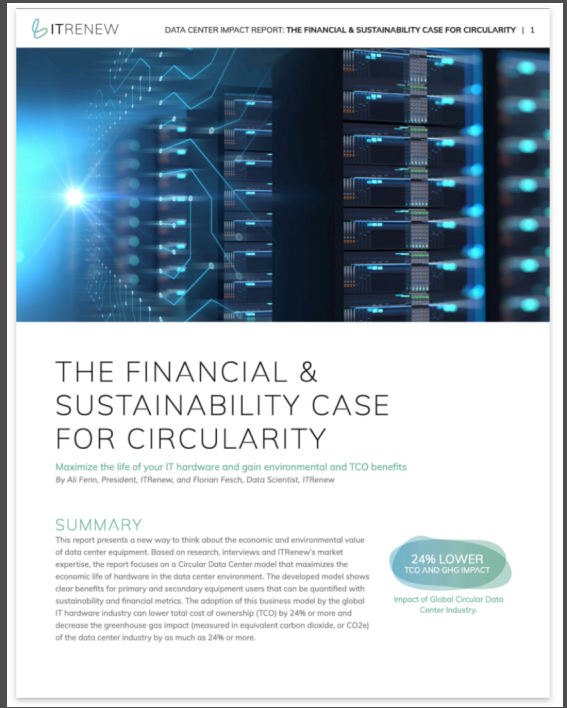
Ali Fenn – President of ITRenew

https://www.itrenew.com/

ITRENEW

https://www.youtube.com/watch?v=PuzEMYCGeVk

https://www.itrenew.com/resources/the-global-circular-data-industry/



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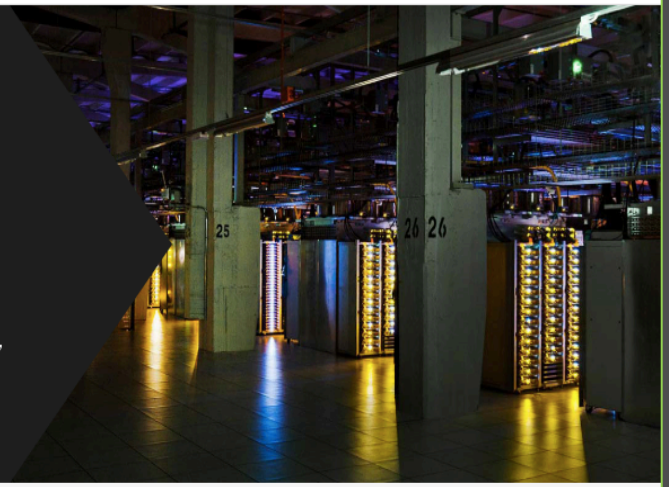
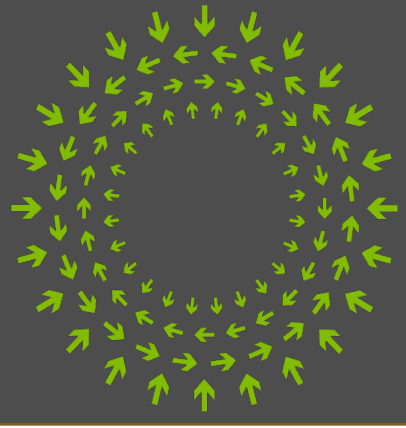
- Products
- Integrated Solutions
- Circular Economy

Open. For Business.

The Open Compute Project (OCP) is reimagining hardware, making it more efficient, flexible, and scalable. Join our global community of technology leaders working together to break open the black box of proprietary IT infrastructure to achieve greater choice, customization, and cost savings.





OCP Marketplace
https://www.opencompute.org/products

Past Events (recordings and slides)
https://www.opencompute.org/events/past-summits

https://www.opencompute.org/events/past-events

Social
https://www.youtube.com/user/OpenComputeProject

https://www.linkedin.com/groups/4152886/

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Thank You

Steve Helvie
Open Compute Project (OCP)

steve@opencompute.org