

# About the Open Compute Project

Foundation Overview 2024



Community-driven hyperscale innovation for all

# Meeting the Market and Shaping the Future

## COMMUNITY

Hyperscale Centric



## OPEN INNOVATION

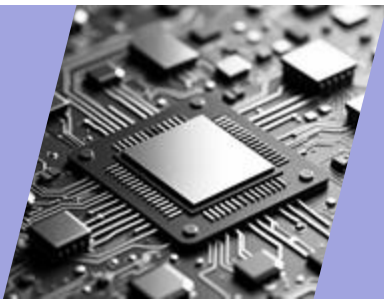
- Hyperscale-proven designs
- Trusted IP model
- Specs, best practices
- Rapid technology adoption
- Multi-vendor ecosystems
- Future technologies

# Impacting Data Center IT and Facilities

From hyperscale to distributed edge data center technologies



From silicon to systems to physical facilities



# OCP's 13+ Year Journey



**2011**

- 5 founding members
- 200+ people at first summit
- Facebook open-sources initial hardware specs



**2014**

- 150+ members
- 2500+ at all Summits
- Adds: DC full stack, network, storage, rack, silicon/GPUs
- Facebook claims saving \$2B over 3y thanks to OCP open source



**2018**

- 200+ members
- 3800+ at all Summits
- Adds to physical facilities, cooling environments, security FTS, OCP Ready
- ~ \$11B OCP-recognized equipment revenue



**2022**

- 300+ members
- 3500+ at OCP Summit
- Adds: Open Chiplet Economy, photonics, OCP Experience Centers, FTI
- ~\$27B OCP-recognized equipment revenue



**2024**

- 400+ members
- 10,500+ est. at all Summits
- Add Open Systems for AI strategic initiative
- ~ \$41B (F) OCP-recognized equipment revenue

# Diverse Membership

## Cloud



## Co-location



## Enterprise



## System Integrators



## DC Equipment



## IT Equipment



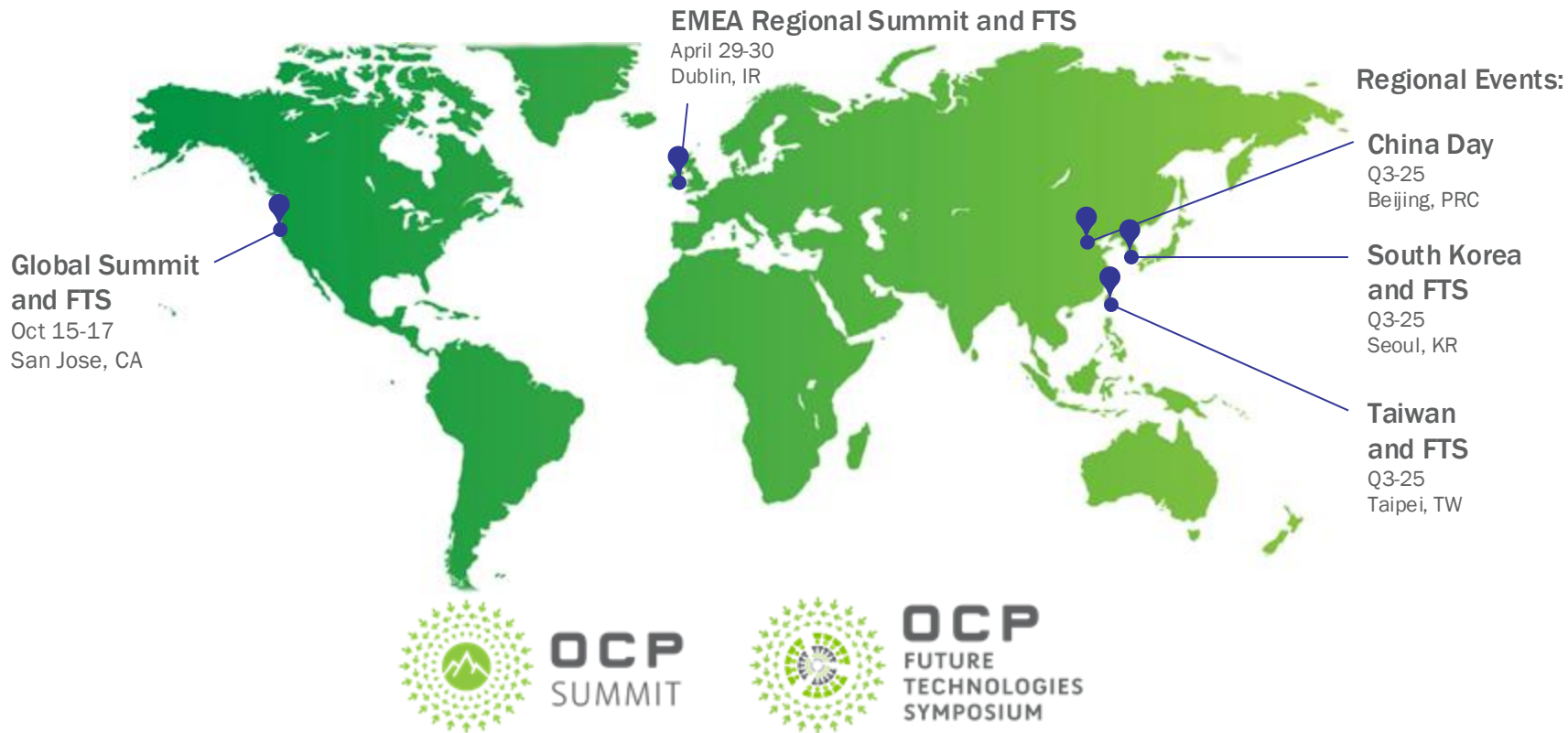
## Component



## Startups



# OCP Major Events



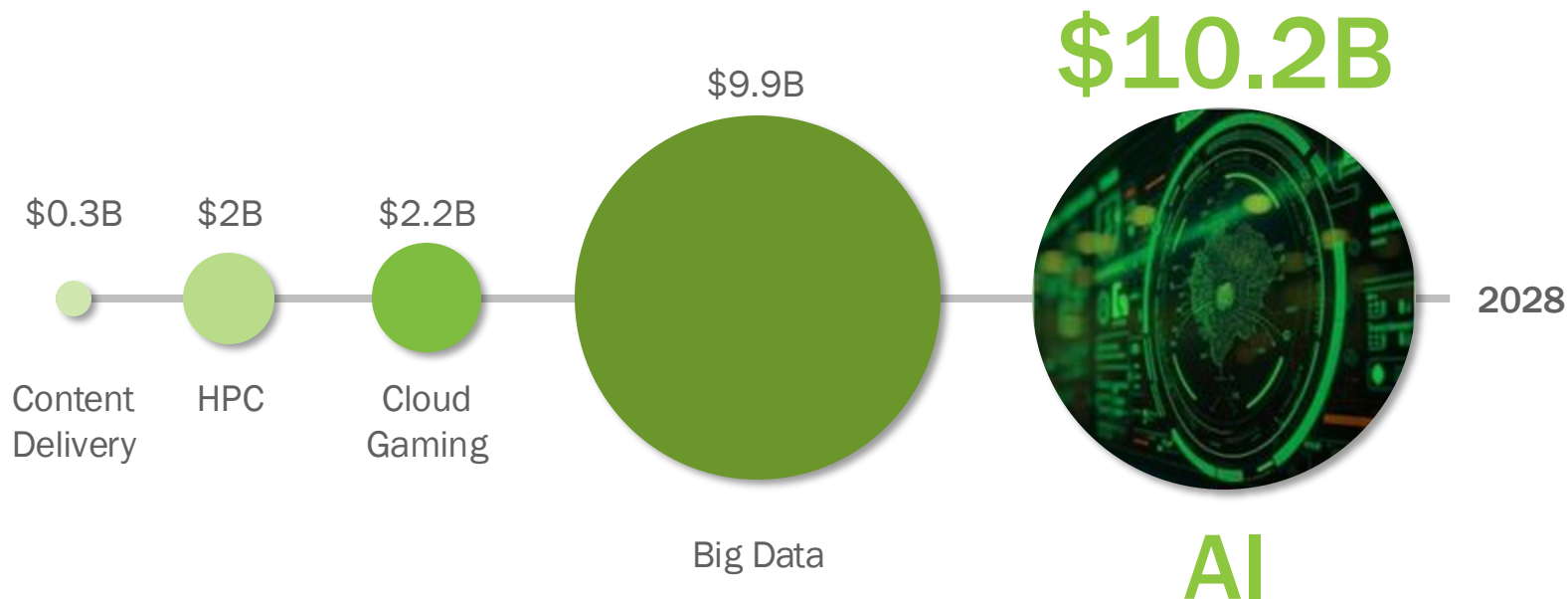




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# Meeting the Market

# AI: Predominant OCP Data Center Use Case

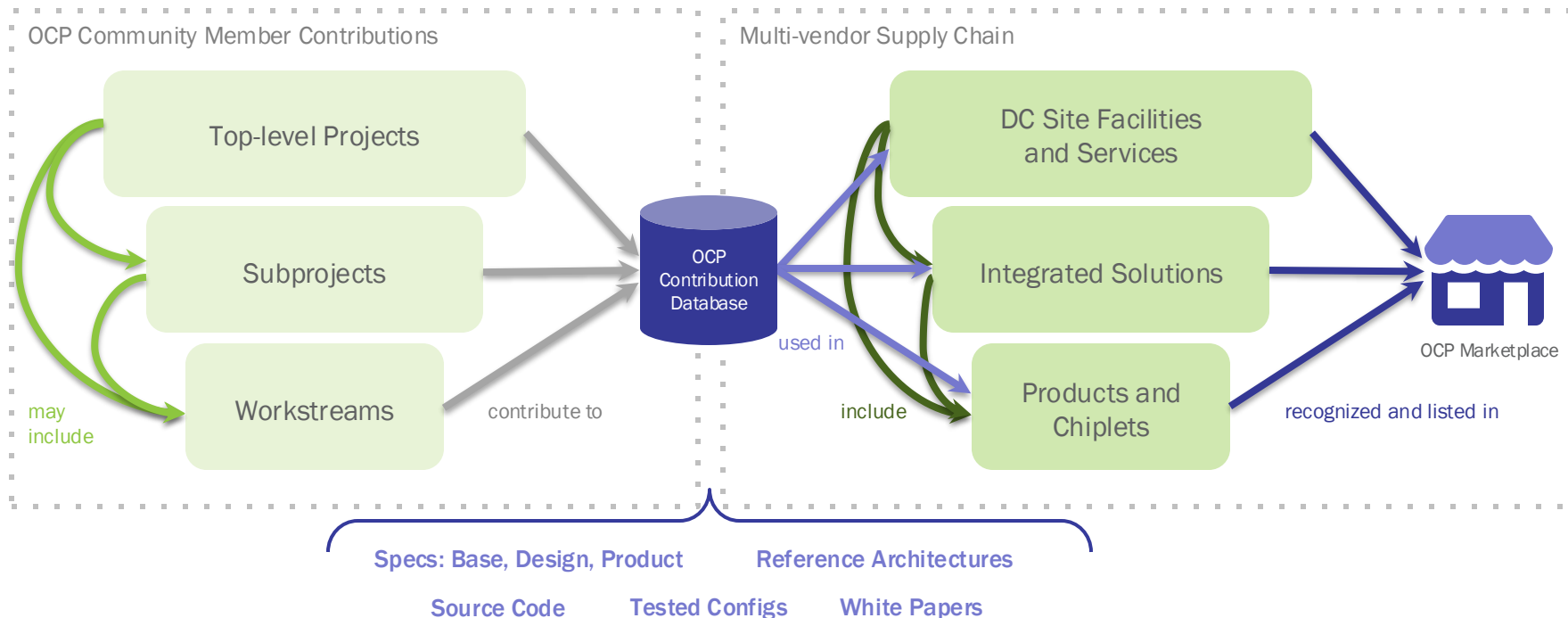


IDC Market Impact Study



# OCP: An Economy of Contributions

How contributions meet the market



# OCP: A Collaborative Community Effort

## INCUBATOR



**OCP**  
FUTURE  
TECHNOLOGIES  
SYMPOSIUM

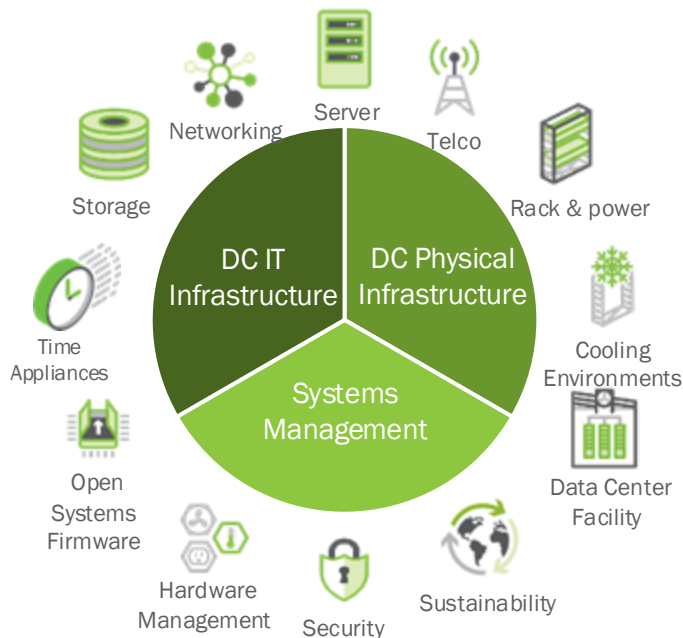


**OCP**  
FUTURE  
TECHNOLOGIES  
INITIATIVE



**OPEN**  
STARTUP™

## COMMUNITY PROJECTS



## NEW INITIATIVES

### TECHNOLOGY



Open Systems  
for AI



Evenstar  
OpenRAN



Test &  
Validation

### MARKETS



Photonics



Chiplets

## EMERGING MARKETS

### OCP MARKETPLACE



### RECOGNITION PROGRAMS

#### Security | Facilities

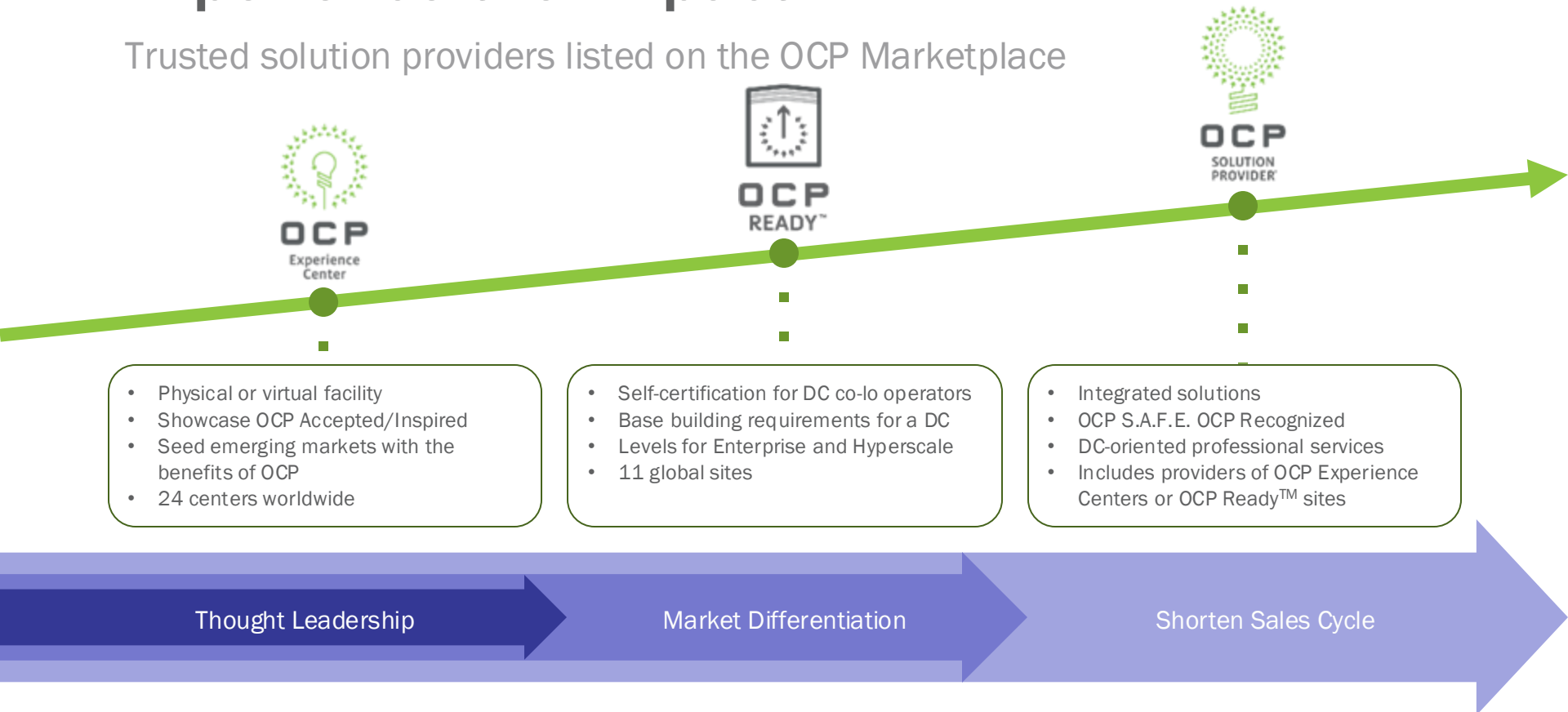


#### Product

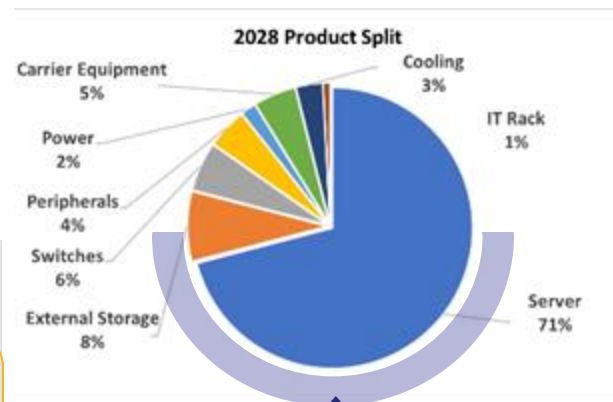
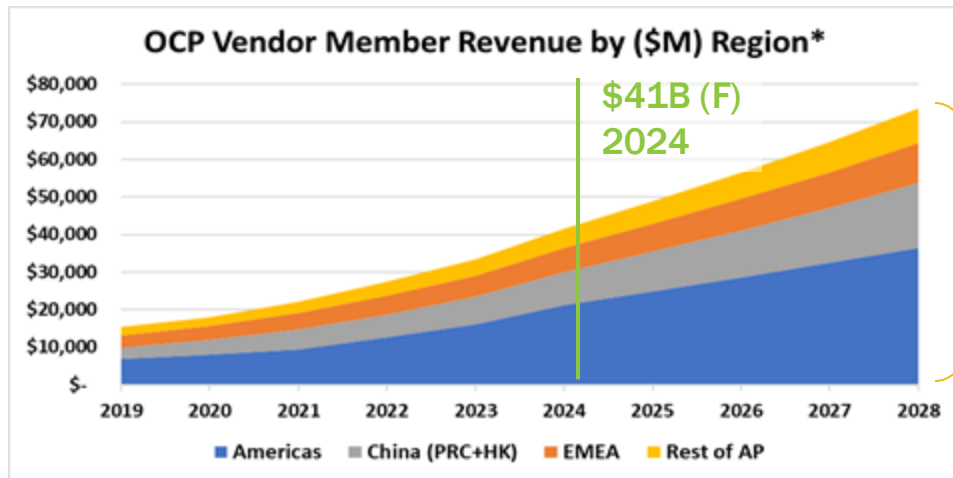


# Experience the Impact

Trusted solution providers listed on the OCP Marketplace



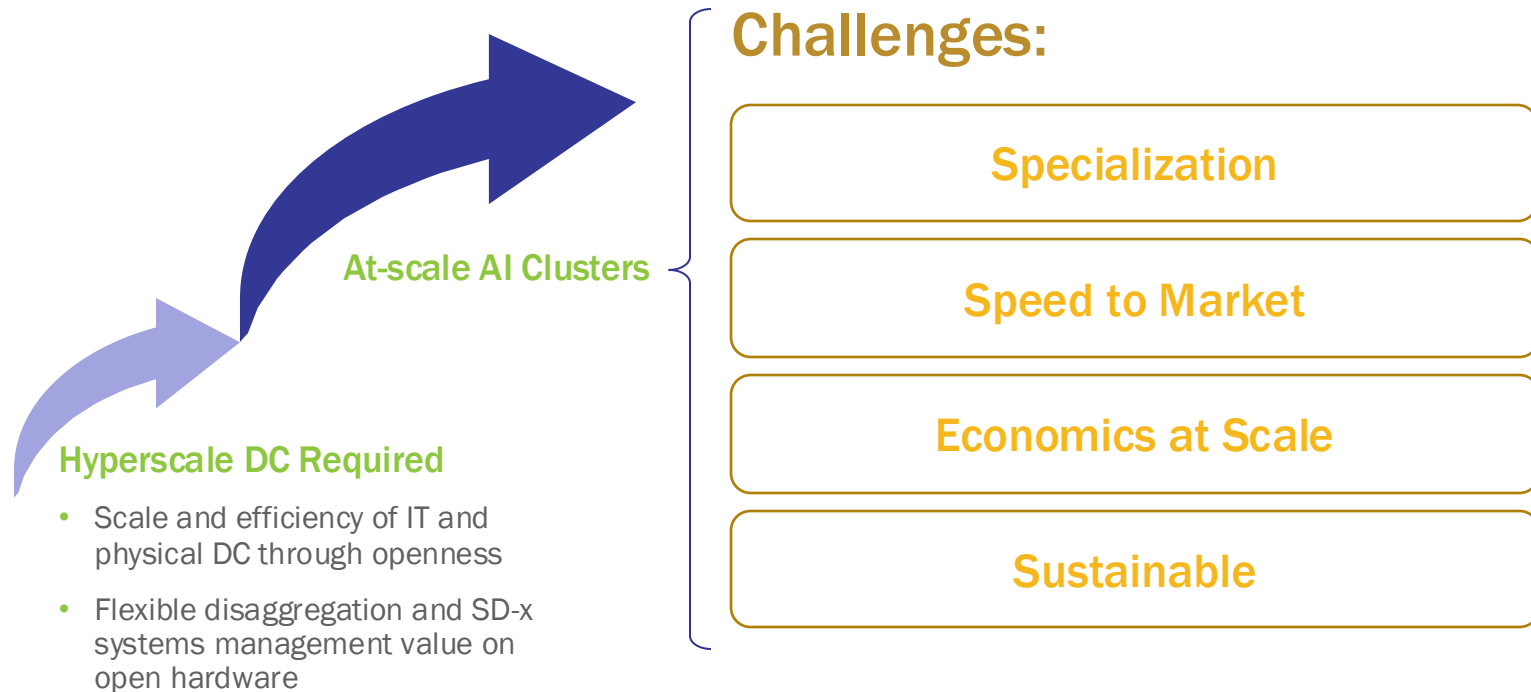
# Market Impact by Revenue



**\$74B**  
by 2028

\* Independent Market Study by IDC

# Tackling the Next DC Technology Shift



# Open Systems for AI Strategic Initiative

Open Systems for AI – an umbrella OCP Strategic Initiative

## WORK AREAS

Systems Management

DC IT Infrastructure

DC Physical Infrastructure

+ OCP Future  
Technologies Initiative

## COMMUNITY WORK

Execution in  
OCP Project workstreams

Contributions in OCP database

## ADOPTION & ECONOMY

OCP Marketplace:  
chiplets, products, solutions  
and OCP Ready facilities





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# Shaping the Future

# Future Technologies at OCP

## FTS

### SYMPOSIUM

- Events co-located with OCP Summits
- Mix of academia, startups and research orgs
- 3-5+ years to mature into projects / products
- 2-page papers, posters and select talks

#### Examples:

- Quantum hybrid DC and communications
- Next-gen 2-phase cold-plate cooling for AI
- 3D optics for interconnect at scale
- Natural hydrogen and SMRs for data centers

## FTI

### INITIATIVE

- FTI pre-IP problem definition workstreams
- 2-5 years to mature into projects / products
- Mix of startups, academics, and vendors
- Goal to transition to (sub)project workstreams

#### Examples:

- AI HW/SW Co-design
- Short-reach optical interconnect
- Data-centric computing

# From Incubation to Mature Projects

## INCUBATION



- Future Technologies Symposium
- Future Technologies Initiative workstreams
- Emerging Technology Demos
- Startup Membership Tier
- Startup Program

## PROJECTS



- 150+ workstreams across 12 top-level Projects and Subprojects
- Contribute specs, reference designs, white papers, blueprints, design packages, config, code, etc.





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# Exploring the Community

# OCP Foundation Board

## BOARD OF DIRECTORS



Zaid Kahn  
Board Chair



Amber Huffman



David Ramku



Jeni Barovian



Andy Bechtolsheim  
Individual



George Tchapanian  
OCP CEO

## ADVISORY BOARD



Robert Hormuth



Jeff Wittich



Eduardo (Eddie) Ramirez



Robert Ober



Sangyeun (Paul) Cho



Mohamad El-Batal



Rich Lappenbusch





# OCP Foundation Staff



George Tchaparian  
CEO



Bijan Nowroozi  
CTO



Dirk Van Slyke  
CMO



Cliff Grossner  
Chief Innovation Officer



Nick Bullock  
CFO



Steve Helvie  
VP Emerging Markets



James Kelly  
VP Market Intelligence & Innovation



Kali Burdette  
Sr. Director of Global Events



Michael Schill  
Sr. Director of Community



Rob Coyle  
Director of Technical Programs



Kevin Kifer  
Director of IT & Digital Services



Kate Hendle  
Events Manager



Raúl Álvarez  
European Market  
Development Manager



Jonae Powers  
Events Coordinator



Laura Holst  
Accounting Assistant



Mark Dansie  
OCP Ready™  
Lead



Bill Carter  
OCP Fellow Emeritus



# OCP Foundation Steering Committee

2 co-chairs +  
12 with one SC member covering each OCP Project



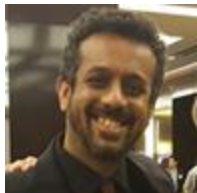
Dharmesh Jani (DJ)  
Co-chair  
Meta



Jessica Gullbrand  
Co-chair  
Intel



Steve Mills  
Cooling Environments  
Meta



Madhusudan Iyengar  
Datacenter Facility  
Google



John Leung  
Hardware Management  
Intel



Xu Wang  
Networking  
Meta



Dong Wei  
Open Systems Firmware  
ARM



Gopa Parameswaran  
Rack & power  
Microsoft



Andres Lagar-Cavilla  
Security  
Google



Greg Sellman  
Server  
AMD



Mike Allison  
Storage  
Samsung



Shruti Sethi  
Sustainability  
Microsoft



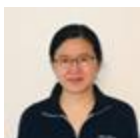
Craig White  
Telco  
Nokia



Elad Wind  
Time Appliances  
NVIDIA



250+ Project Leaders  
7,000+ Participants



# The OCP Membership

## 2028 Member Regional Revenue Snapshot



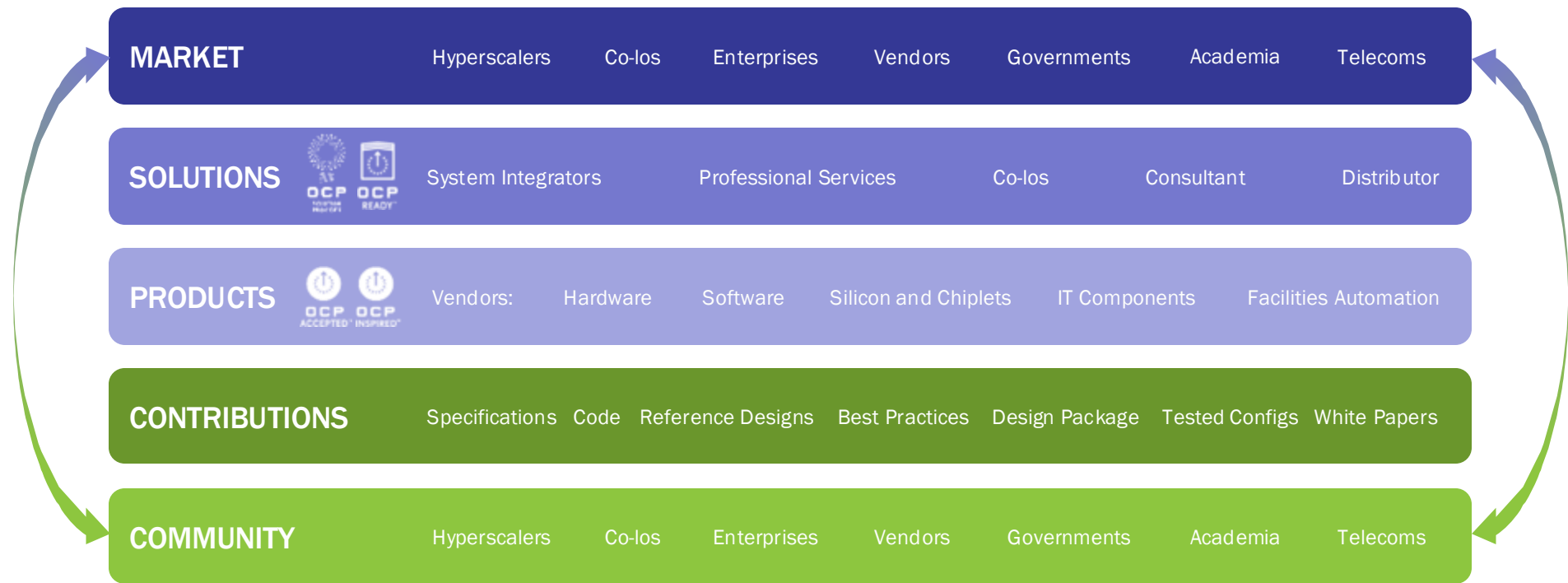
\* 2028 (e) OCP Recognized  
Equipment OCP Market Impact  
Study by IDC



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# Joining Us

# How the OCP Community Benefits the Market



# Get Involved!

## Join

- Project Mailing Lists
- Project Calls
- Open Systems for AI Initiative

## Drive

- Project Focus
- Thought Leadership

## Run

- Projects and Workstreams
- Technical Steering Committee

## Contribute

- Effort
- Specifications
- Products and Facilities

## Attend

- OCP Summits
- OCP Panels
- Engineering Workshops
- OCP Webinars
- 3<sup>rd</sup> Party Events





# Thank you

[opencompute.org](https://opencompute.org)



Community-driven hyperscale innovation for all