



# AMD in HPC and AI *EPI Forum*

October 2024

**AMD**   
together we advance\_

# AMD | By the Numbers



**54**  
years

Founded May 1, 1969  
HQ Santa Clara, CA

**25,700+**  
employees

1,500+: Europe Middle East and Africa

**99**

locations worldwide

31: North America

29: Europe, Middle East, Africa

39: Asia

**\$22.7B+**

annual revenue

Over 25% reinvested towards R&D

**12,800**

patents

~ 5,600 patent applications pending

**\$5.8B**

R&D spend

17% growth since 2022

# HPC and AI leadership with AMD EPYC™ CPUs and AMD Instinct™ GPUs

## Proven at-scale wins



### FRONTIER Perlmutter LUMI

Selene	Polaris
Explorer-WUS3	SSC-21
Adastra	CEA-HF
JUWELS Booster Mod.	Chervonenkis
Shaheen III	Archer2
Sejong	Hawk
Voyager-EUS2	Ghawar-1
Setonix	Frontier TDS
Discovery 5	Pégaso

AMD powers **156 systems on the Top500 (+29% YoY)** including **Frontier**, the fastest supercomputer in the world for the fourth consecutive time



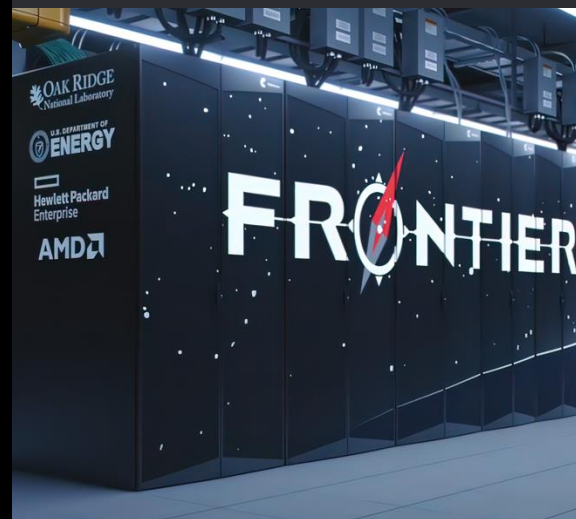
### FRONTIER Test and Development System

### ADAstra SETONIX

Dardel	Wilkes-3
LUMI	Athena
Frontier	HiPerGator AI
Goethe-NHR	Komondor
Olaf	Karolina (GPU Partition)
Champollion	Discovery 5
Grete	Meluxina
SSC-21 Scalable Mod.	Perlmutter
Tethys	Lanta

AMD powers **157 of the most energy efficient supercomputers** in the world on the Green500

## #1 Supercomputers



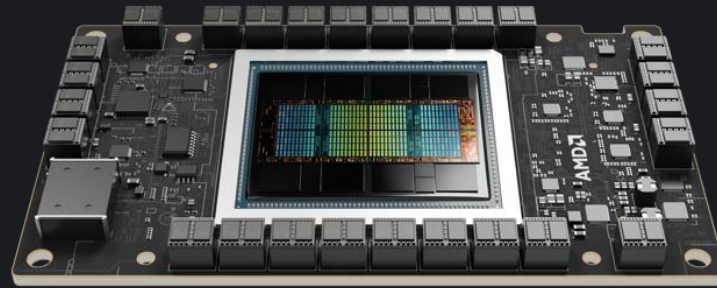
AMD leads in the **convergence of AI and HPC** powering two out of three top systems, Frontier and LUMI, in the latest HPL-MxP mixed-precision AI benchmark



The second exascale class supercomputer powered by AMD, **El Capitan**, has **started its installation process** at Lawrence Livermore National Laboratory



# AI is the next paradigm shift with huge global impact



**\$45B**

**2023**

**>70% CAGR**

**Data Center AI Accelerators**

Source: AMD



**\$400B+**

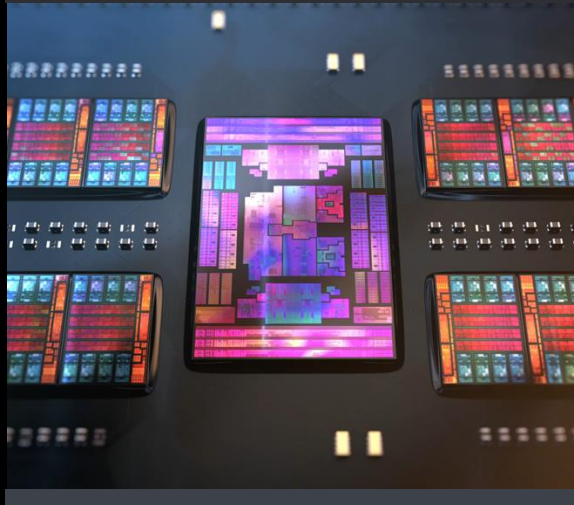
**2027**

# AMD | Pillars of Innovation

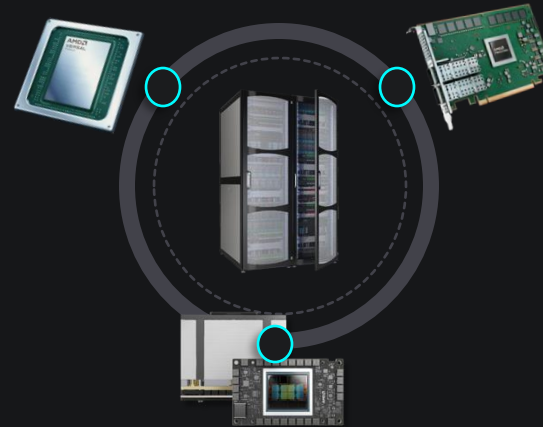
## Modular IP



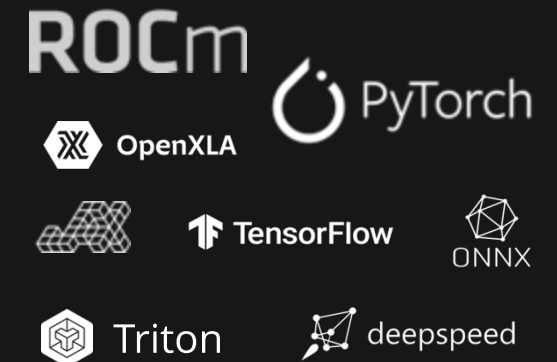
## Chiplets and 2D/3D Packaging



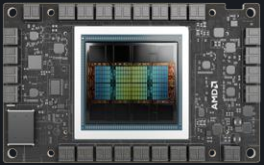
## Component and System



## Open-Source Software

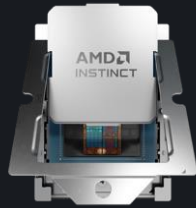


# AMD | Uniquely positioned



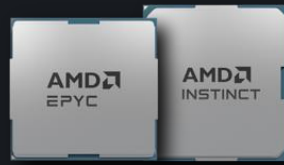
## Cloud

Leadership accelerator  
for generative AI, LLMs  
and inferencing



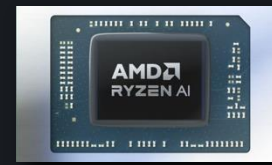
## HPC/AI

World's first data center  
APU for HPC and AI



## Enterprise

Broad ecosystem of OEM  
and solution partners



## PC

Technology leadership  
with upgraded on-die AI  
neural processing unit  
(NPU)



## Embedded

Adaptive SoC + AI  
for Embedded

Ultra Accelerator Link  
*Ultra Ethernet*  
Consortium

## Networking



## Advancing end-to-end infrastructure

# Enhancing European Innovation



Driving scientific  
breakthroughs



Partnering on silicon  
interoperability

SILO<sub>AI</sub>

Investing in AI regional  
capability

# Moving forward

1 AMD CONTINUES TO INVEST AGGRESSIVELY TO ENABLE BEST-IN-CLASS SOLUTIONS FOR HPC & AI

2 AMD REMAINS COMMITTED TO OPEN STANDARDS AND PARTNERSHIP

3 AMD KEEP EXPANDING ITS PRESENCE IN EUROPE





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