

KEYNOTE

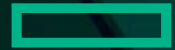
HPE - HPC&AI Technology Challenges in Europe

Animée par Marc Simon

14h15 – 14h30



Marc Simon
Business Technical Advisor for HPC & AI
HPE



**Hewlett Packard
Enterprise**



HPC & AI Technology challenges in Europe

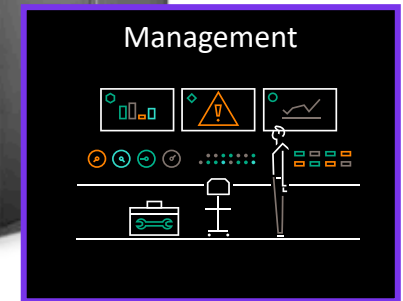
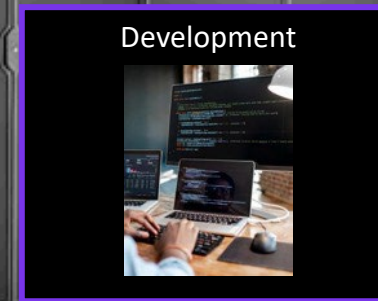
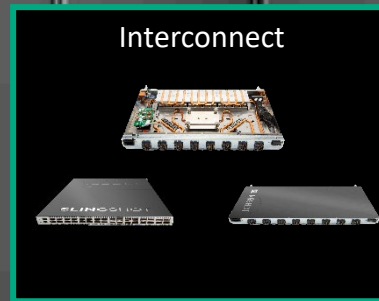
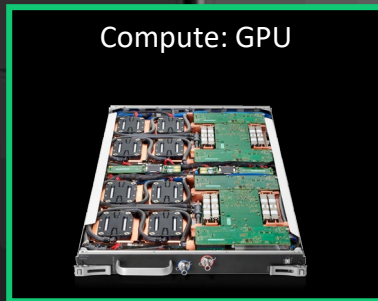
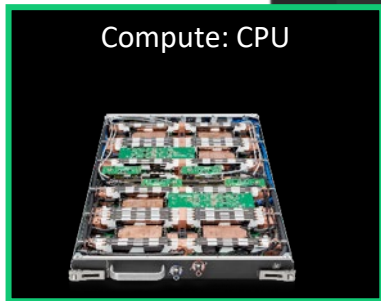
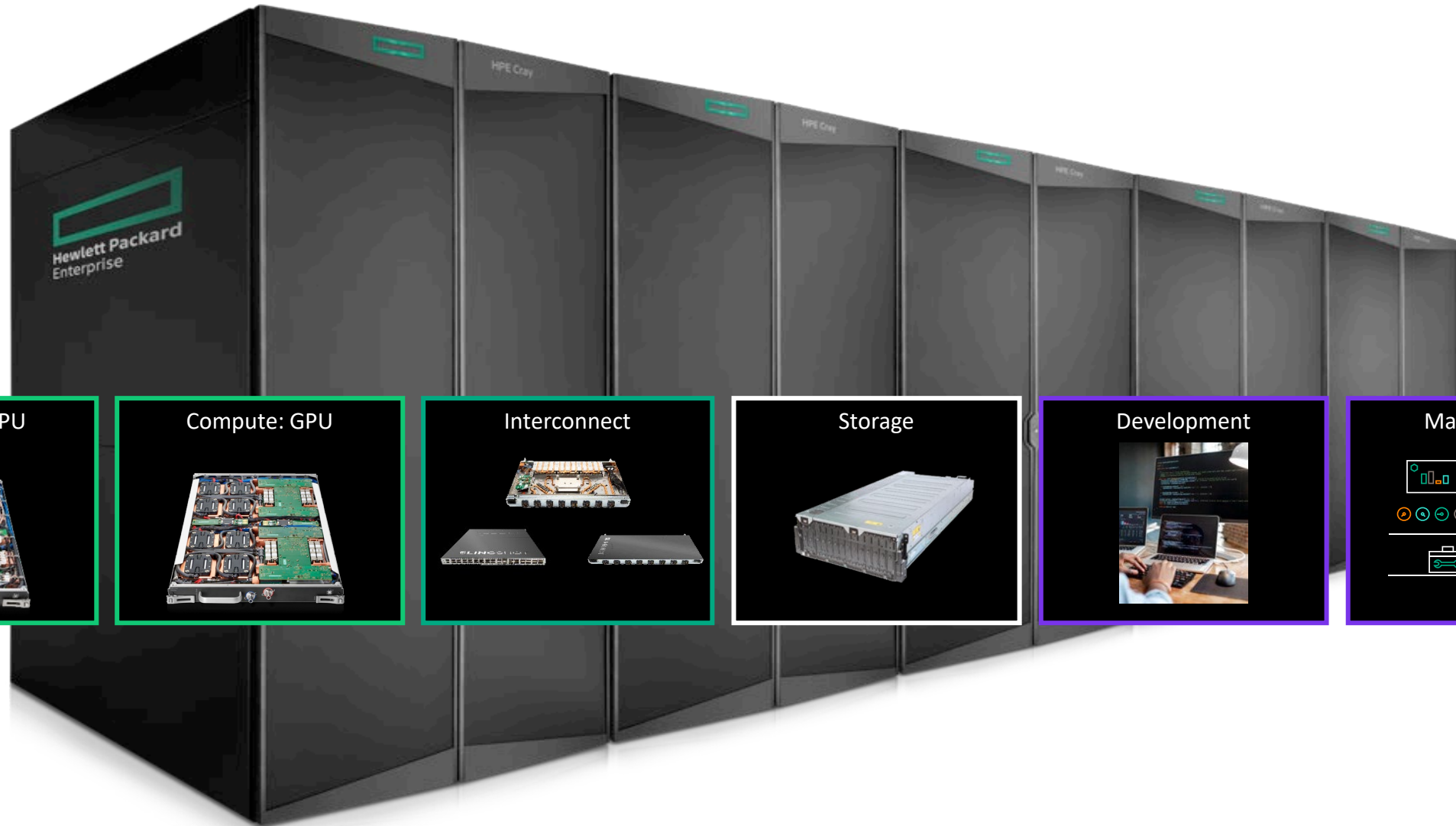
Marc Simon
HPC Business Technology Advisor
Forum Teratec 2023



“Anyone can build a fast CPU.
The trick is to build a fast system.”

Seymour Cray, Founder, Cray Research, Inc.

HPE Technologies Powering Exascale



DELIVERING THE FASTEST SYSTEMS ON THE PLANET

WORLD'S FASTEST*

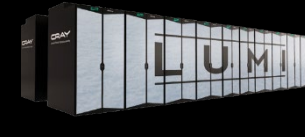
EU'S FASTEST*



EXASCALE

EXASCALE

EXASCALE



DELIVERED

IN FACTORY

DELIVERED

ANNOUNCED

IN FACTORY

DELIVERED

ANNOUNCED

AMD Milan EPYC CPU & NVIDIA GPU with Slingshot interconnect

Future Intel Xeon CPU & Intel Xe^e architecture with Slingshot interconnect

AMD EPYC CPU & AMD Instinct GPU with Slingshot interconnect

Future AMD EPYC CPU & Radeon GPU with Slingshot interconnect

Intel Xeon Sapphire Rapids CPU with Slingshot interconnect

AMD EPYC CPU & AMD Instinct GPU with Slingshot interconnect

Future Arm CPU with Ampere Next GPU Slingshot interconnect

STORAGE

35 PB All Flash Cray ClusterStor E1000

STORAGE

200 PB Cray ClusterStor E1000

STORAGE

700 PB Cray ClusterStor E1000

STORAGE

400 PB Cray ClusterStor E1000

STORAGE

Not Publicly disclosed

STORAGE

87 PB Cray ClusterStor E1000

STORAGE

10 PB** Cray ClusterStor E1000

* June 2022, Top500.org list ** 100 PB expansion in progress. Listed is the publicly disclosed won-to-date contracts.

HPE - HPC REFERENCES IN EUROPE

○

30

100

LUMI



CSCS

Centro Svizzero di Calcolo Scientifico
Swiss National Supercomputing Centre



KAUST
King Abdullah University of
Science and Technology



HLRIS



HPC@hu
Kompetencia Központ



zenseact



FINNISH METEOROLOGICAL INSTITUTE



Met Office



المركز الوطني للأرصاد
National Center of Meteorology



مؤسسة قطر
Qatar Foundation



TotalEnergies



VSB TECHNICAL
UNIVERSITY
OF OSTRAVA

IT4INNOVATIONS
NATIONAL SUPERCOMPUTING
CENTER



AIRBUS

BAE SYSTEMS



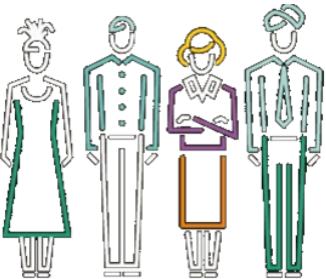
aramco



HPE - WINNING MAJOR DEALS IN EMEA



HPE – HPC PRESENCE IN EUROPE



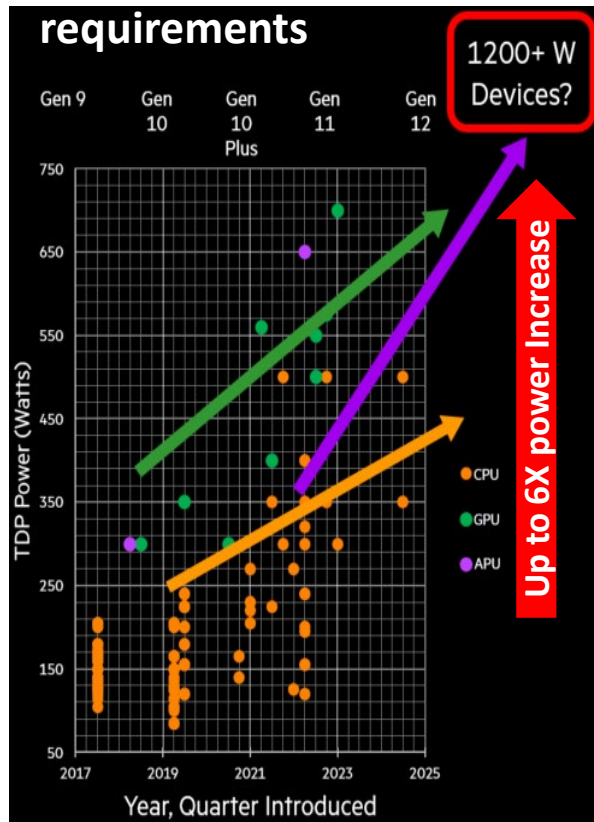
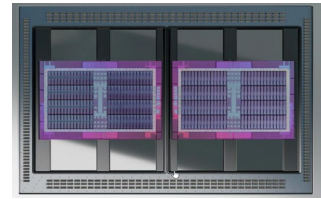
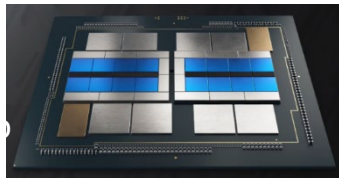
“Our new HPC factory in Kutná Hora, Czech Republic, is another significant investment, among our other R&D initiatives, that we have made in Europe.”

Justin Hotard, executive vice president and general manager, HPC & AI, at HPE

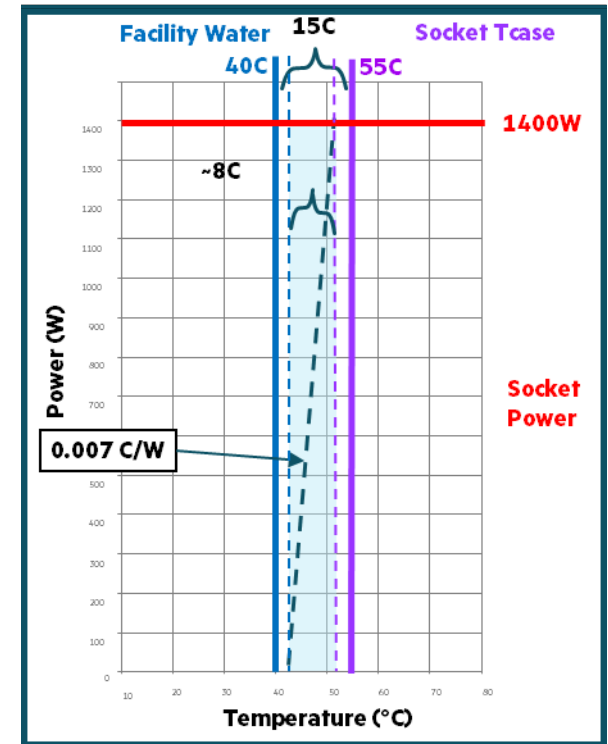
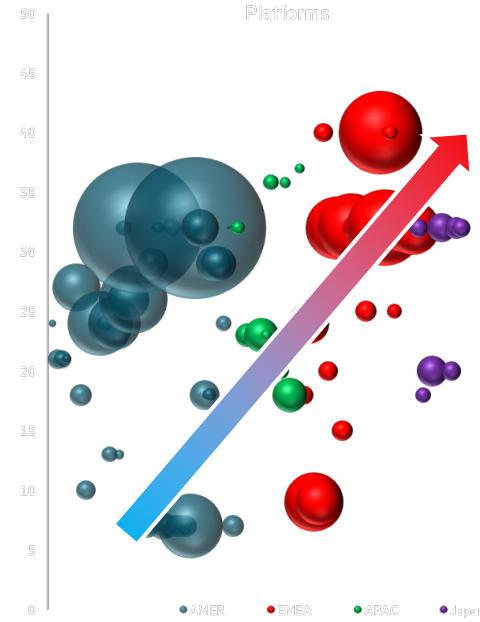
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Major Trends



Olympus Inlet Temp Requirement - Cray EX Olympus Platforms

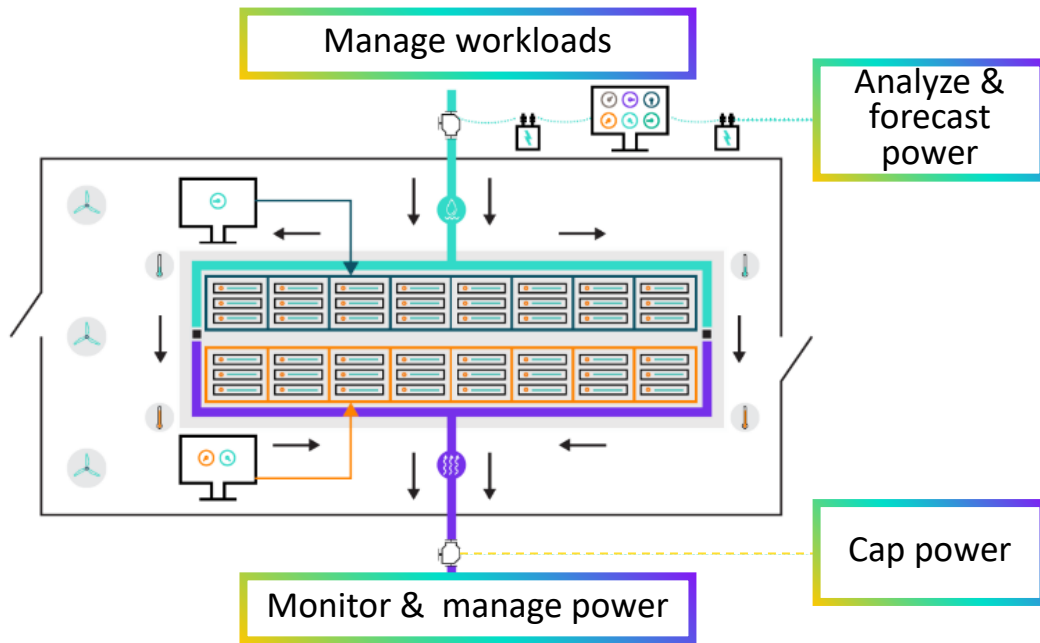
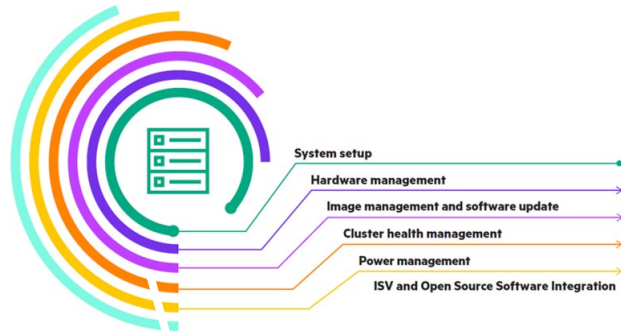


More sustainable HPC operations with holistic



Advanced power management capabilities available via our system management software

HPE Performance Cluster Manager



Journey towards “Sustainability Automation” in your data center

Anomaly detection

2020

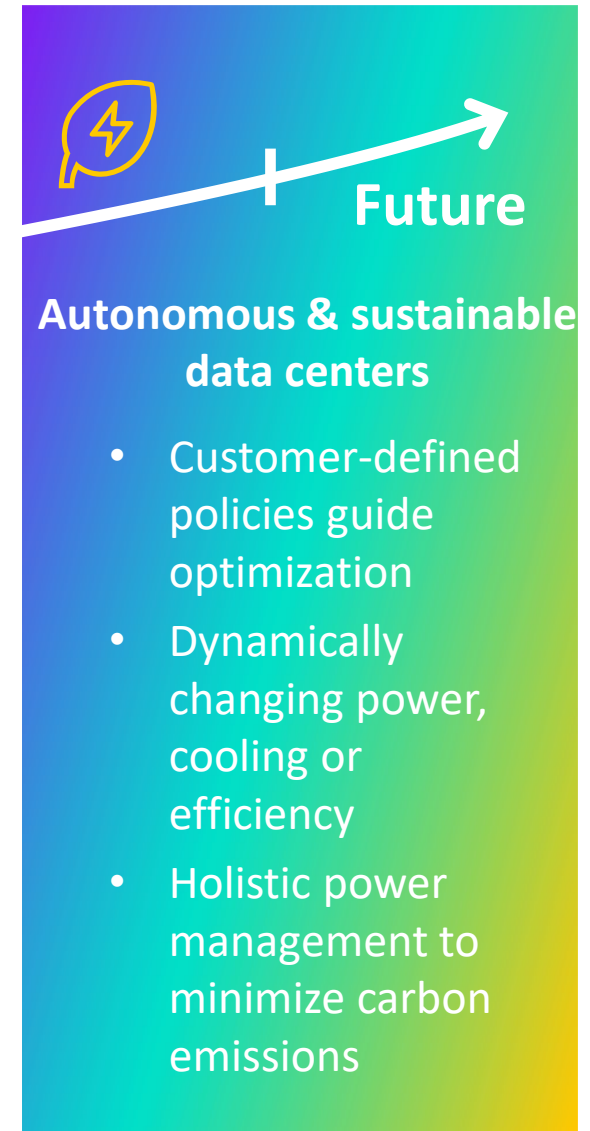
2021

⋮

Today



In development



Expertise in
HPC / AI / MCS

Largest applications
and performance
team in the industry

HPE trusted
supply chain

Hewlett Packard
Labs

Differentiated
IP & systems
capabilities

High Performance
Networking

Photonics

Memory-Driven
Computing

High Performance
Storage & Data
Management

Cloud native &
full developer
ecosystem

HPE Cray
Programming
Environment

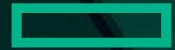
Cloud native systems
management &
orchestration
(Kubernetes)

Converged workloads

Delivered at
any size and any
data center

On-premises
Colo
Public Cloud

CAPEX
as-a-Services



Hewlett Packard
Enterprise

