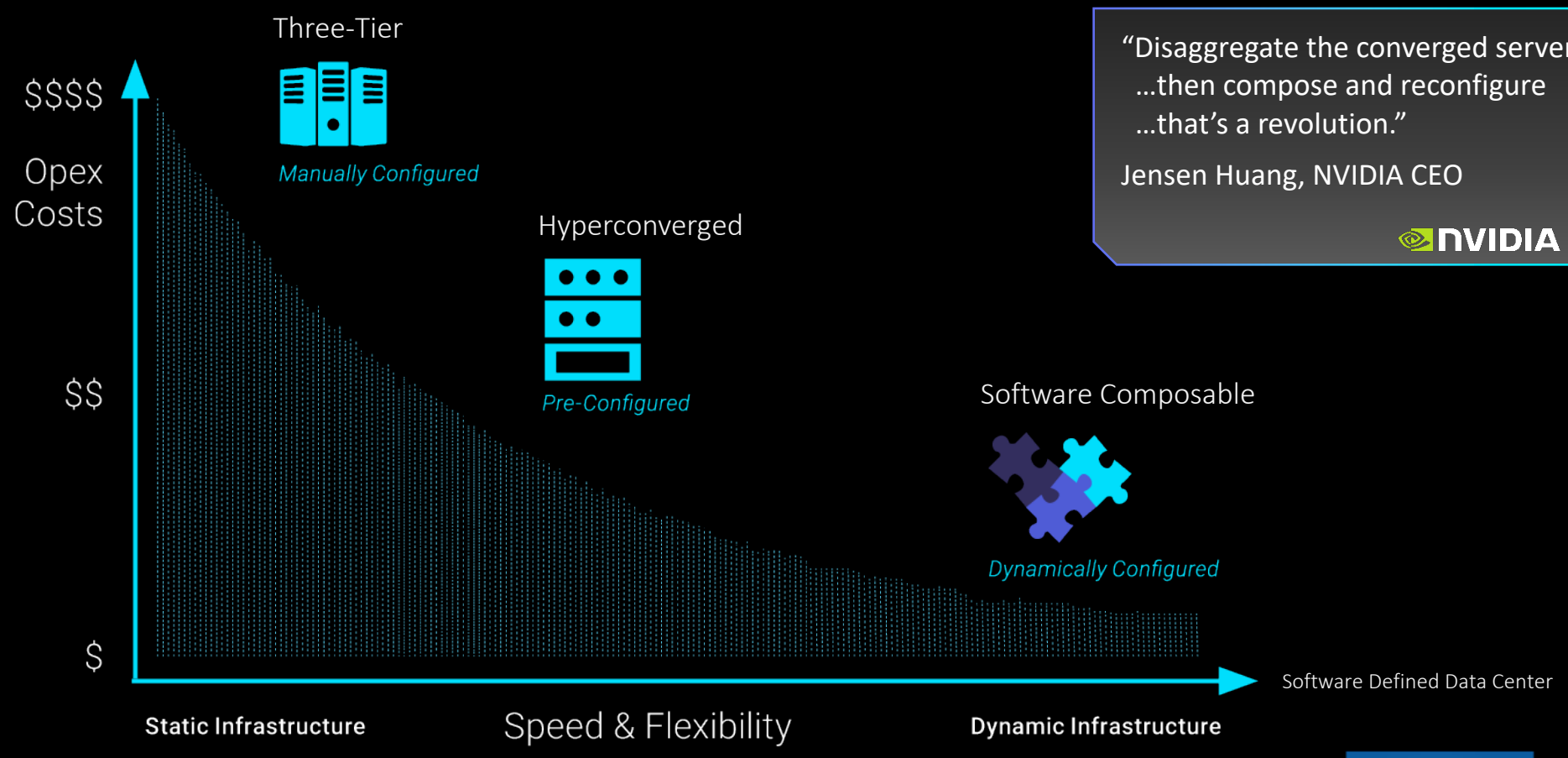
Rethink Possibilities with Dynamic Infrastructure

Phillip Clark

Sr. VP Engineering

www.liqid.com

Datacenter Transformation



"Disaggregate the converged server …then compose and reconfigure …that's a revolution."

Jensen Huang, NVIDIA CEO

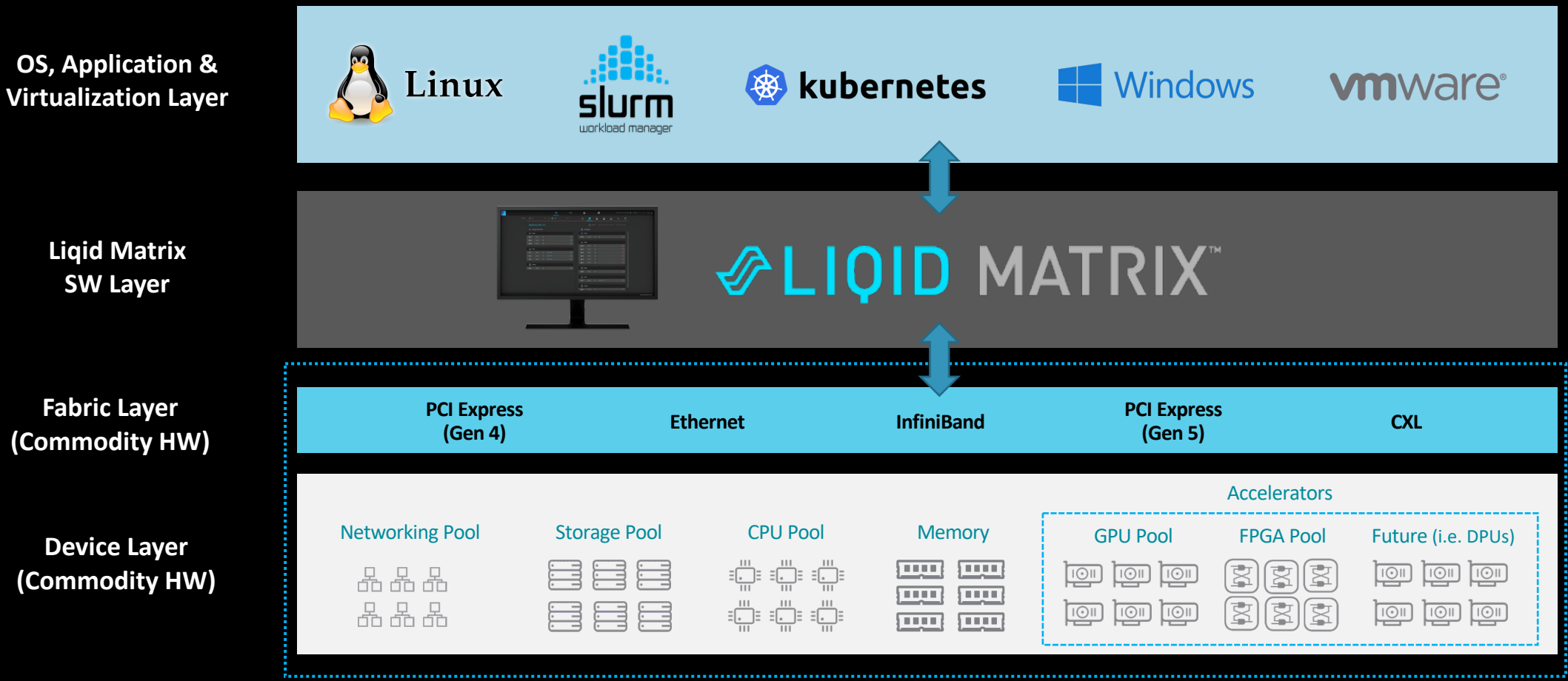
NVIDIA

Gartner

Source: Gartner

LIQID

Liqid Delivers Full Stack Composability



CXL: Built for System Memory Disaggregation

Key Benefits of CXL:

1. Massive Industry Support
2. Built for Disaggregation
3. Increased Bandwidth
4. Low Latency
5. Enables Shared Memory
6. Supports Cache Coherency
7. Improved Scalability
8. Energy Efficiency
9. Lower System Cost
10. Future Proofing

Why Liqid is Well Positioned:

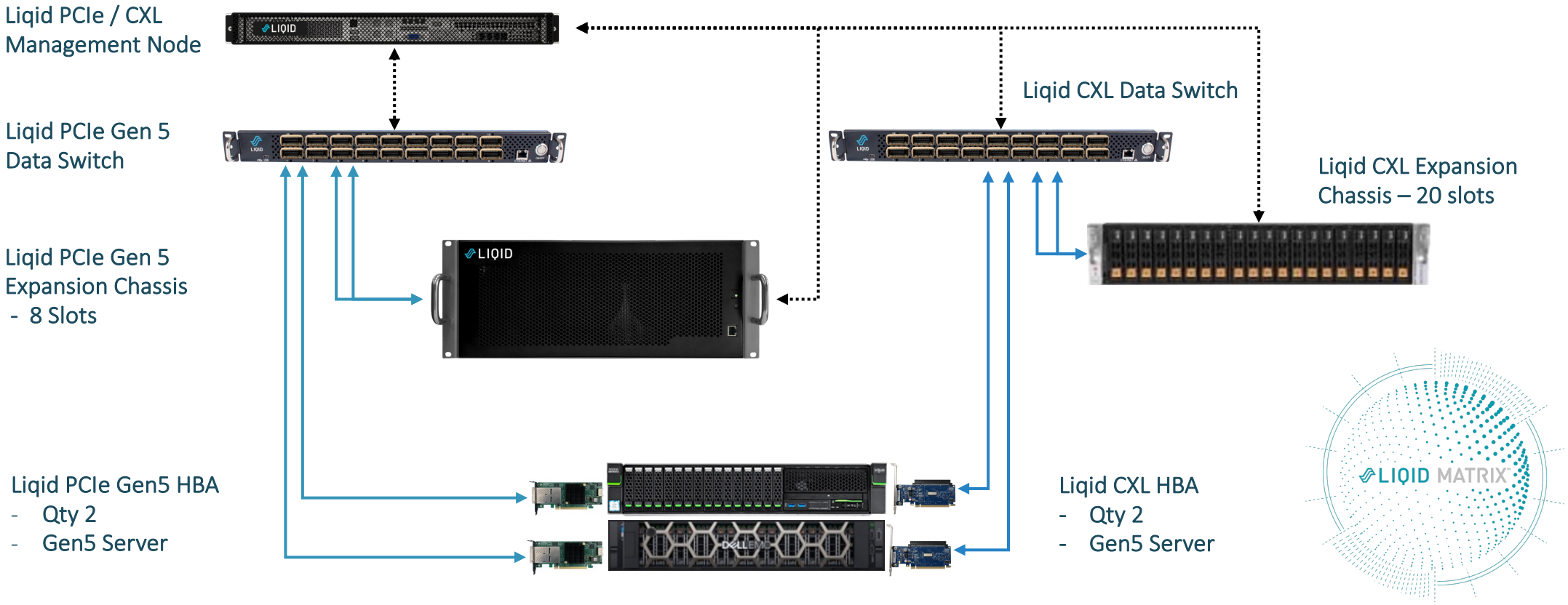
- CXL is built on top of PCIe (Liqid expertise)
- Liqid is already conducting Composable CXL demos
- Liqid SW is CXL ready … waiting on HW
- Liqid is established as CXL SW market leader
- Key strategic partnerships in place
- CXL was purpose built for infrastructure disaggregation and composability

CXL Partners:

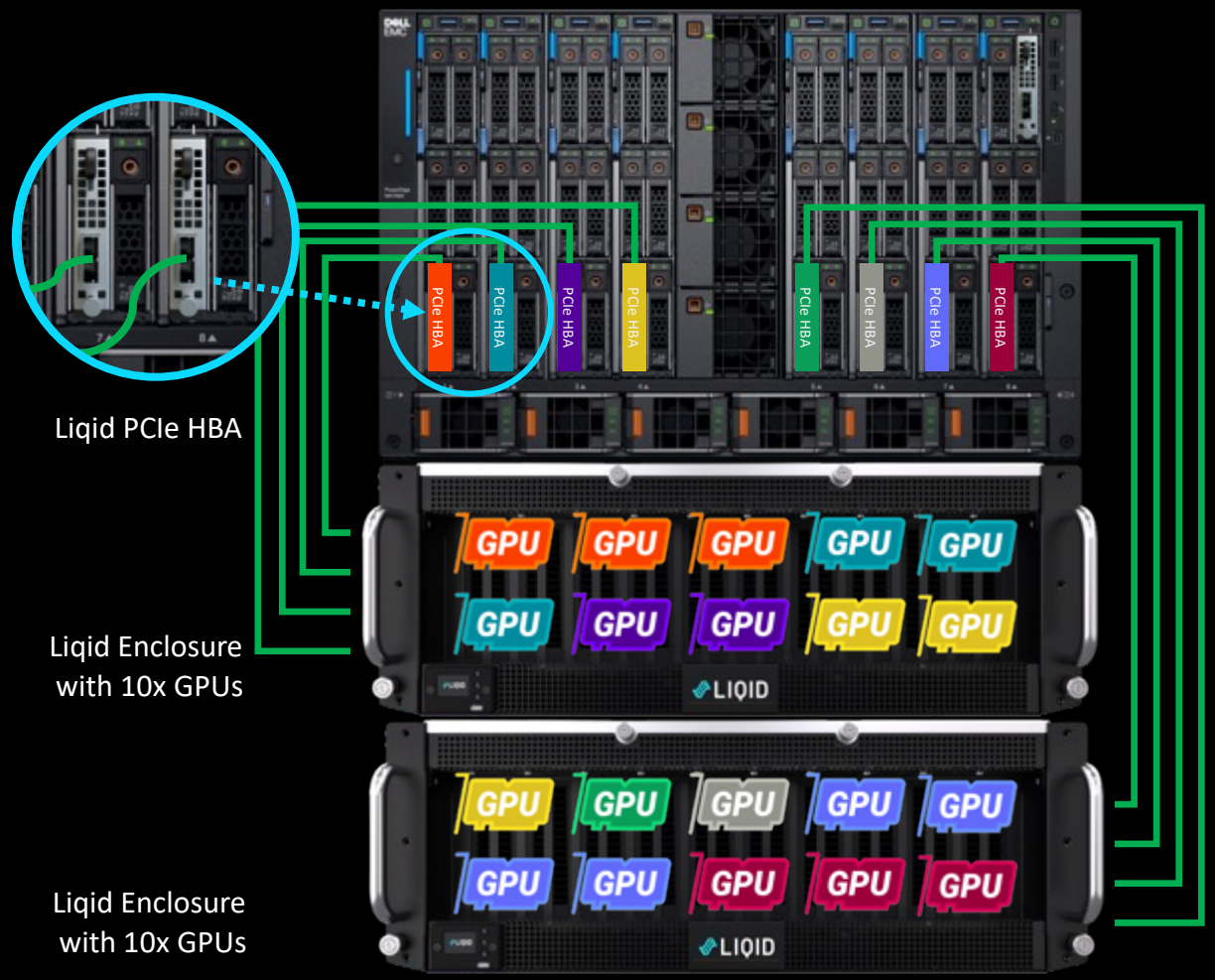
- Broadcom
- Marvell
- Intel
- Samsung
- Intelliprop
- Xconn
- Astera
- Enfabric
- ElasticCloud
- Others..

Single Liqid Matrix Fabric Manager
PCIe Gen 5 / CXL Dual Fabric Topology

Management Link
PCIe Gen 5 x16 Connection
CXL x16 Connection



Case Study: Dell - Enabling AI Workloads on Blades



Dell MX7000 Reference Design:

- Dell premium blade/modular server is the MX7000
- Very limited GPU options available on MX7000 system
- Liqid and Dell have partnered on adding GPUs to MX platform
- Without GPUs, not possible to do AI/ML/LLM workloads
- Liqid composable enables MX for all AI/ML/LLM workloads

- Link to Dell & Liqid Reference Architecture:

https://infohub.delltechnologies.com/p/reference-architecture-acceleration-over-pcie-for-dell-emc-poweredge-mx7000-1/


Thank You