HAMMERSPACE

The Data Platform for AI Anywhere

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Complexity of Infrastructure-Centric Storage Strategies

Data Sprawl
Unstructured data is siloed and distributed

- ❌ Data copy sprawl
- ❌ Manual data management
- ❌ Too many storage systems
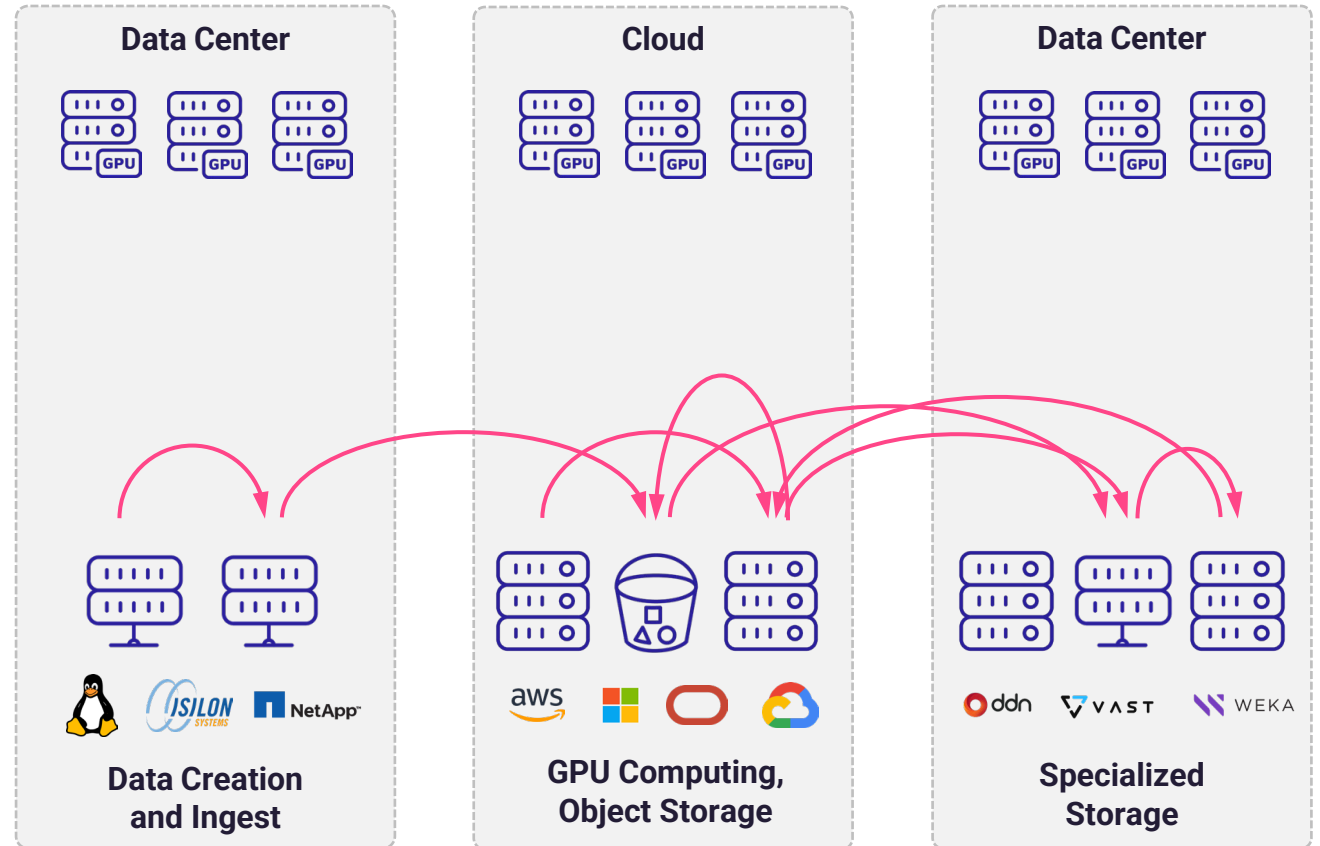- ❌ Cumbersome migrations

Data Gravity
Need to bring data to compute

- ❌ Performance constraints
- ❌ Power constraints
- ❌ Lack cloud agility
- ❌ High costs

Performance
Legacy storage not built for efficient speed

- ❌ Idle GPU resources
- ❌ AI project delays
- ❌ Productivity impacted
- ❌ Not AI-Ready

Data Center

Data Creation and Ingest

Cloud

GPU Computing, Object Storage

Data Center

Specialized Storage

The Hammerspace Data Platform
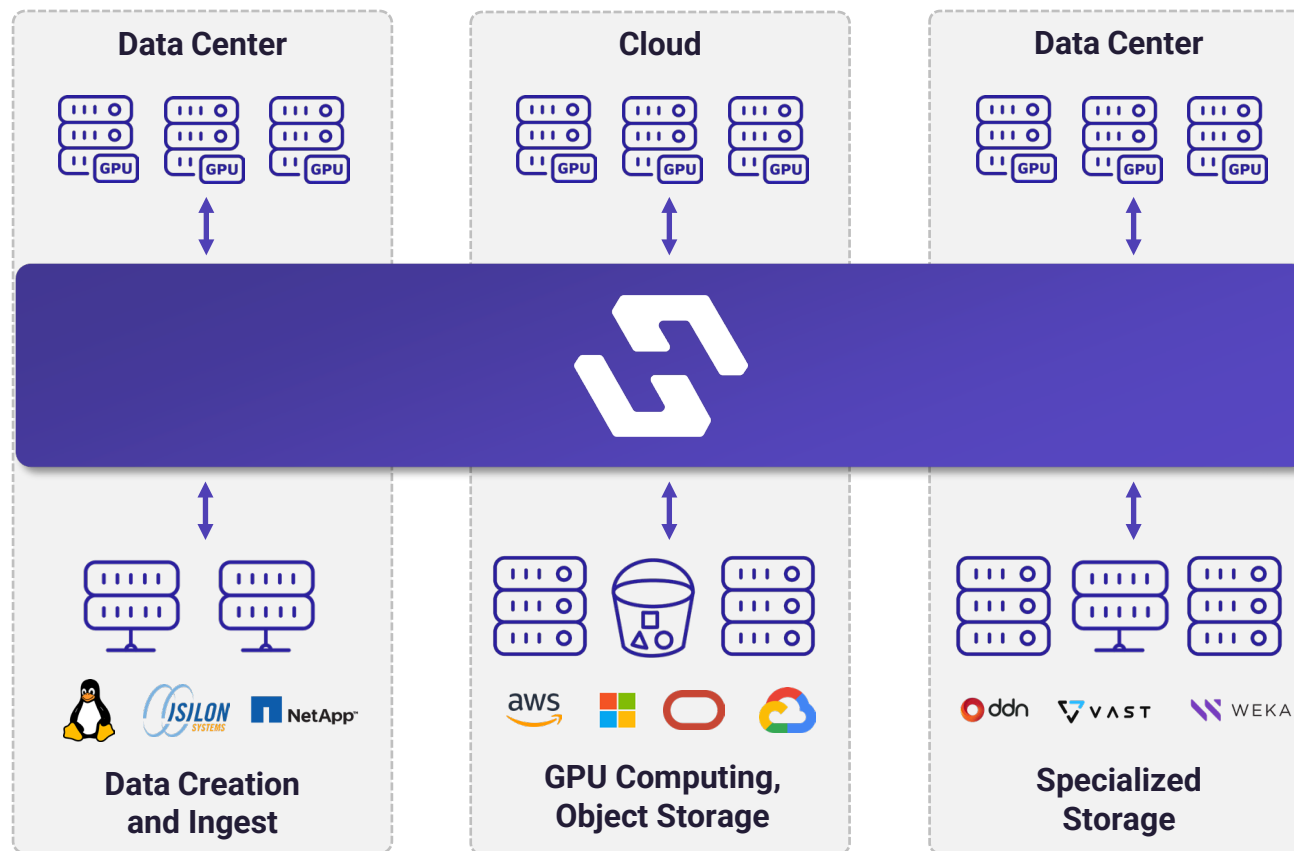
Simplify

Make all file and object data immediately accessible everywhere

Automate

Automate data mobility, data protection, data migrations

Accelerate

Deliver unmatched performance across every aspect of the data pipeline

Data Center

Cloud

Data Center

Data Creation and Ingest

GPU Computing, Object Storage

Specialized Storage

Data Backbone for AI Anywhere

AI Training and Inferencing · Machine Learning · High-Performance Computing · Life Sciences and Research · VFX and Animation · Product Development · Data Analytics

pNFS | NFS | SMB | S3 | GPUDirect | CSI

Data Assimilation
Consolidate siloed data

Global Parallel File System
Standards-Based Simplicity
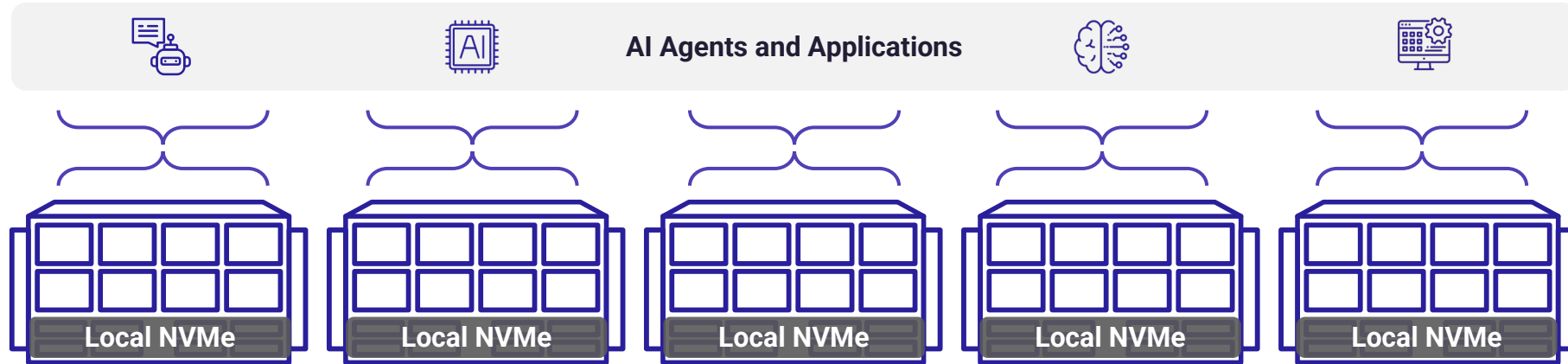
Metadata Services
Unified, Actionable

Data Orchestration
Automate data mobility

Edge-Cloud Global Namespace

Servers · NAS · Object · Cloud

SUPERMICRO · DELL · Hitachi Vantara · ISILON SYSTEMS · NetApp · aws

GPU Server-Local Storage is Siloed

AI Agents and Applications

Local NVMe | Local NVMe | Local NVMe | Local NVMe | Local NVMe
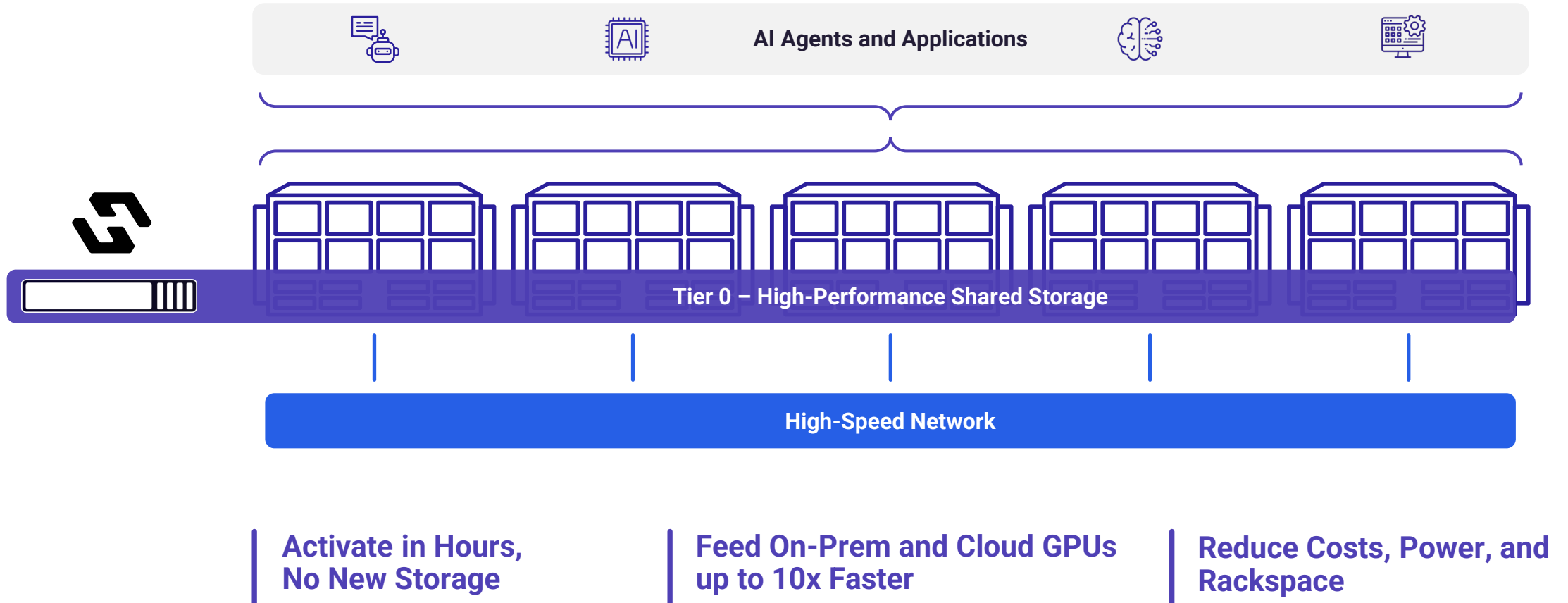
Local Storage Attributes

- Included with purchase (sunk cost)
- Physical servers and cloud VMs
- 60 TB to 492 TB per server today
- 1.97 PB per server in future
- Highest throughput, lowest-latency
- Avoids network bottlenecks
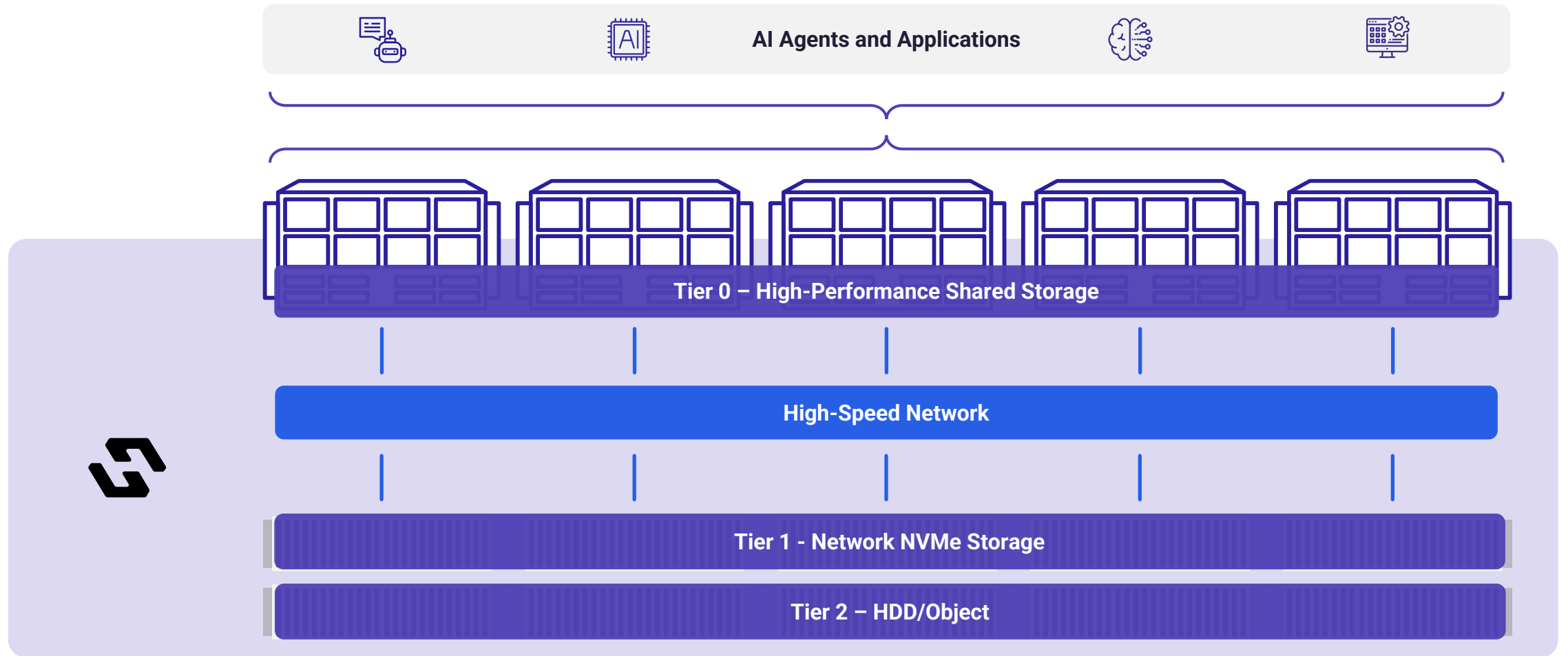
Challenges with Using

- Siloed: Lack of shared access
- Not protected
- Manual data management
- Operational complexity

Hammerspace Tier 0

Turn GPU Server-Local NVMe Into High-Performance Shared Storage
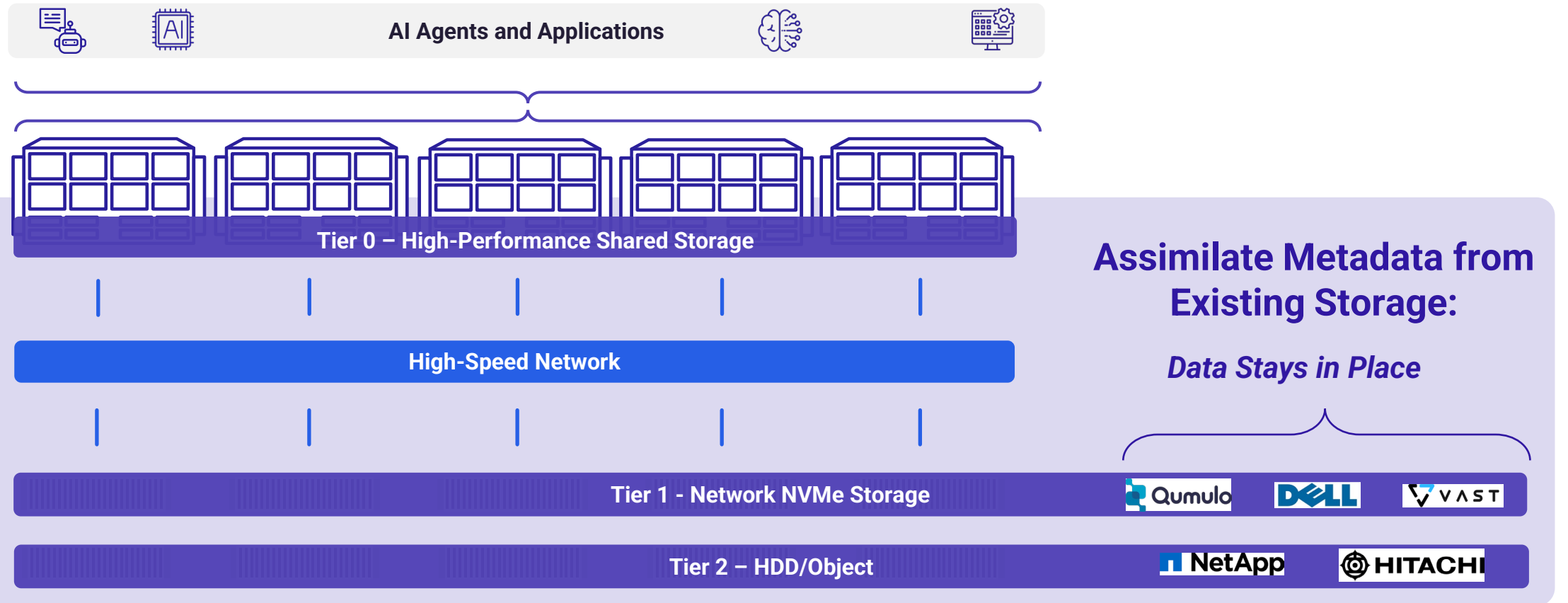

AI Agents and Applications

Tier 0 – High-Performance Shared Storage

High-Speed Network

Activate in Hours, No New Storage

Feed On-Prem and Cloud GPUs up to 10x Faster

Reduce Costs, Power, and Rackspace

Expand to Multiple Tiers in a Single Global Namespace

AI Agents and Applications

Tier 0 – High-Performance Shared Storage

High-Speed Network

Tier 1 - Network NVMe Storage

Tier 2 – HDD/Object

Hammerspace Data-In-Place Assimilation
View All Unstructured Data Without Moving It

AI Agents and Applications

Tier 0 – High-Performance Shared Storage

Assimilate Metadata from Existing Storage:

Data Stays in Place

High-Speed Network

Tier 1 - Network NVMe Storage

Qumulo   D&LL   VAST

Tier 2 – HDD/Object

NetApp   HITACHI

Hammerspace Data-In-Place Assimilation
View All Unstructured Data Without Moving It

HAMMERSPACE
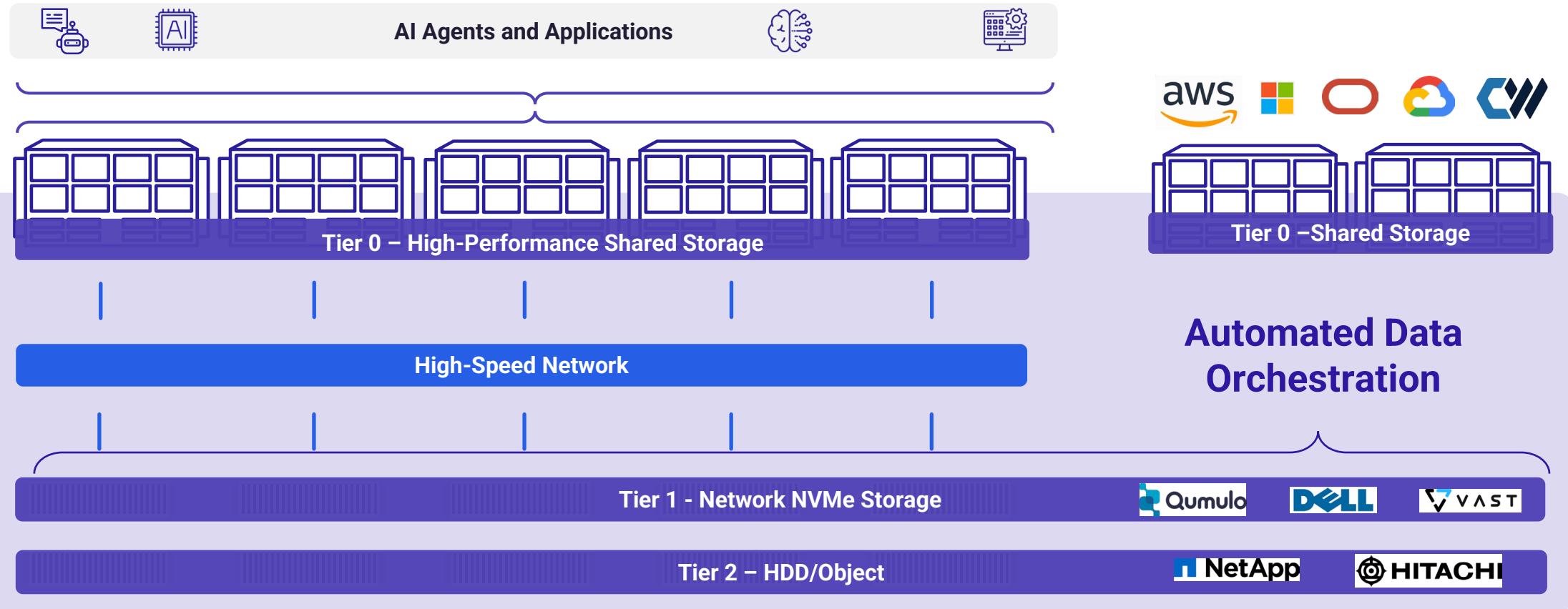
Real World Results:
Tier 0 at a Leading AI Model Developer

- Activated **20PB** of Tier 0 capacity in **1.5 days**

- No new storage hardware

- Saved **~$7M** on storage CAPEX

- No additional power needed

- Equates to **~3M KwHs** saved per year

- Met short deadline for product release

Making AI Anywhere a Reality

Data Center

Edge

Edge

Edge

 Global Namespace & Orchestration

**Data-centric
Not storage-centric**

**Open, automated,
intelligent**

**Transcends location,
provider, & protocol**

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Thank You!

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