Storage Solution for Scaling AI

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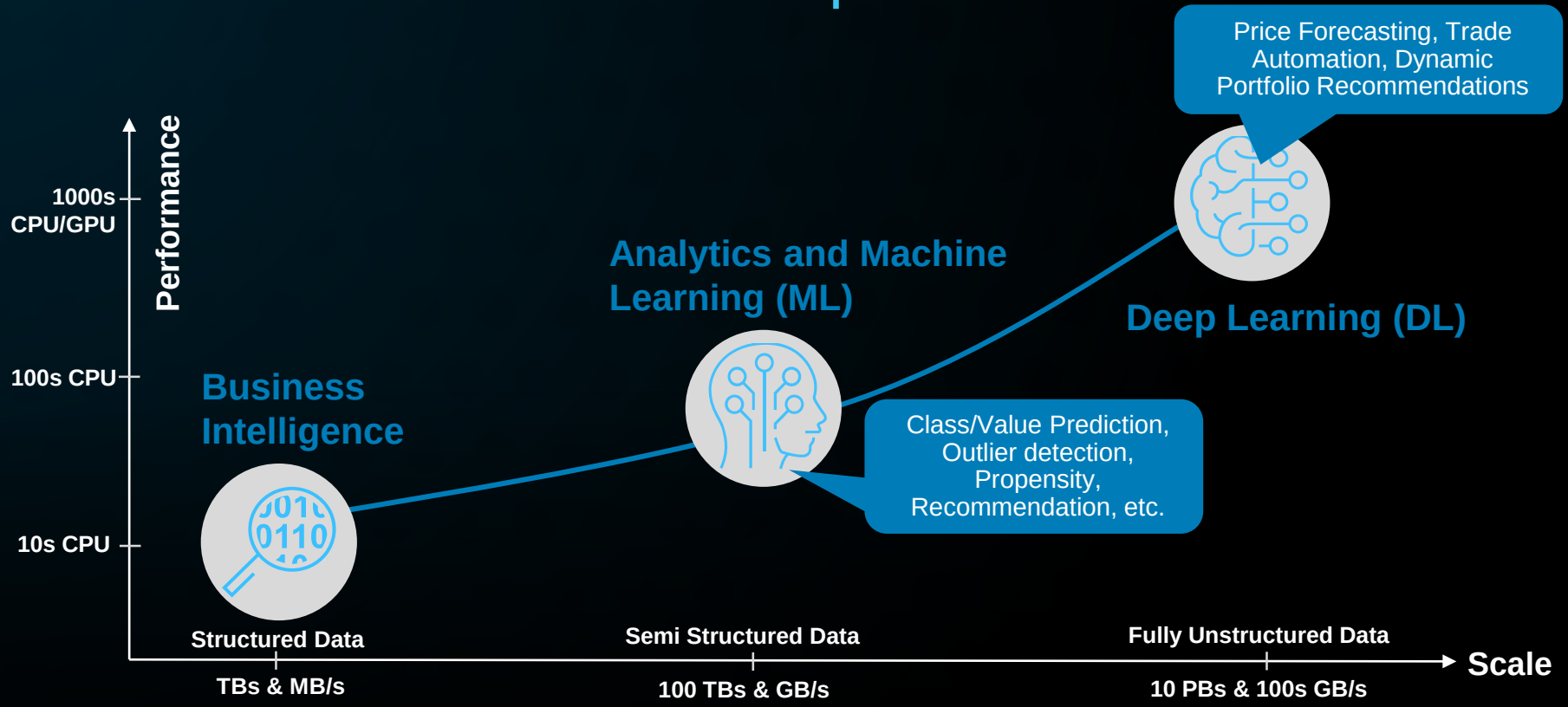
AI accelerates infrastructure pressure



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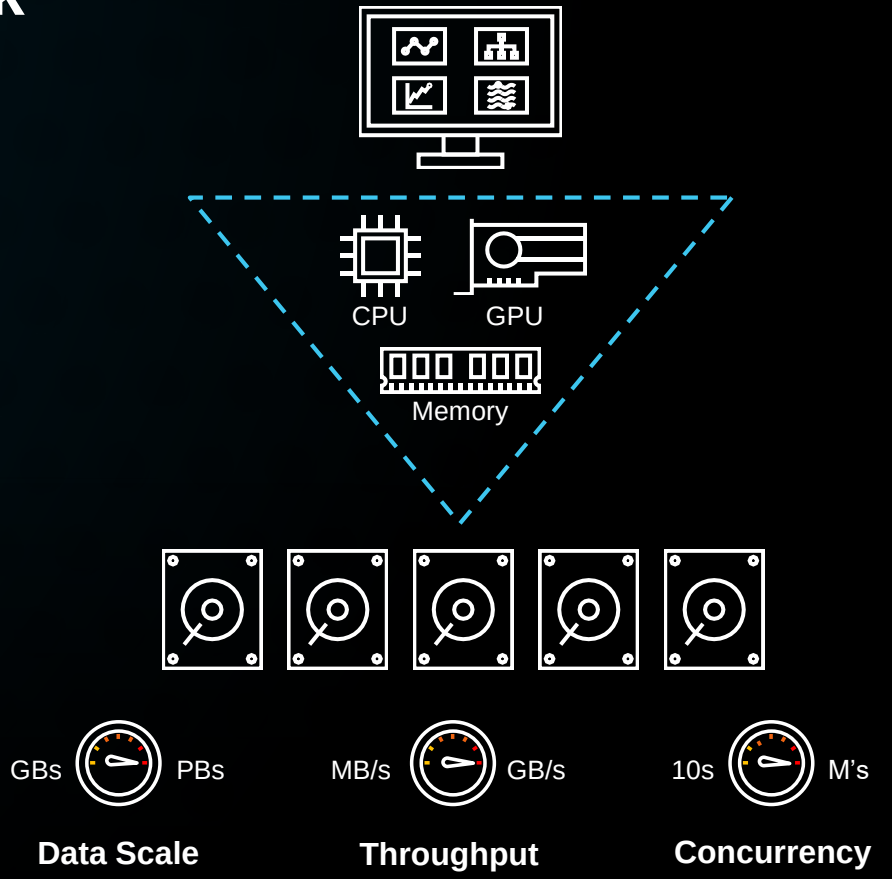
Storage is often the bottleneck

I/O constraints impacts AI

- **Lengthens** model development cycles
- **Difficult to** capture the full value of GPU
- **Limits** analytic accuracy
- **Hard to scale** to large-scale production



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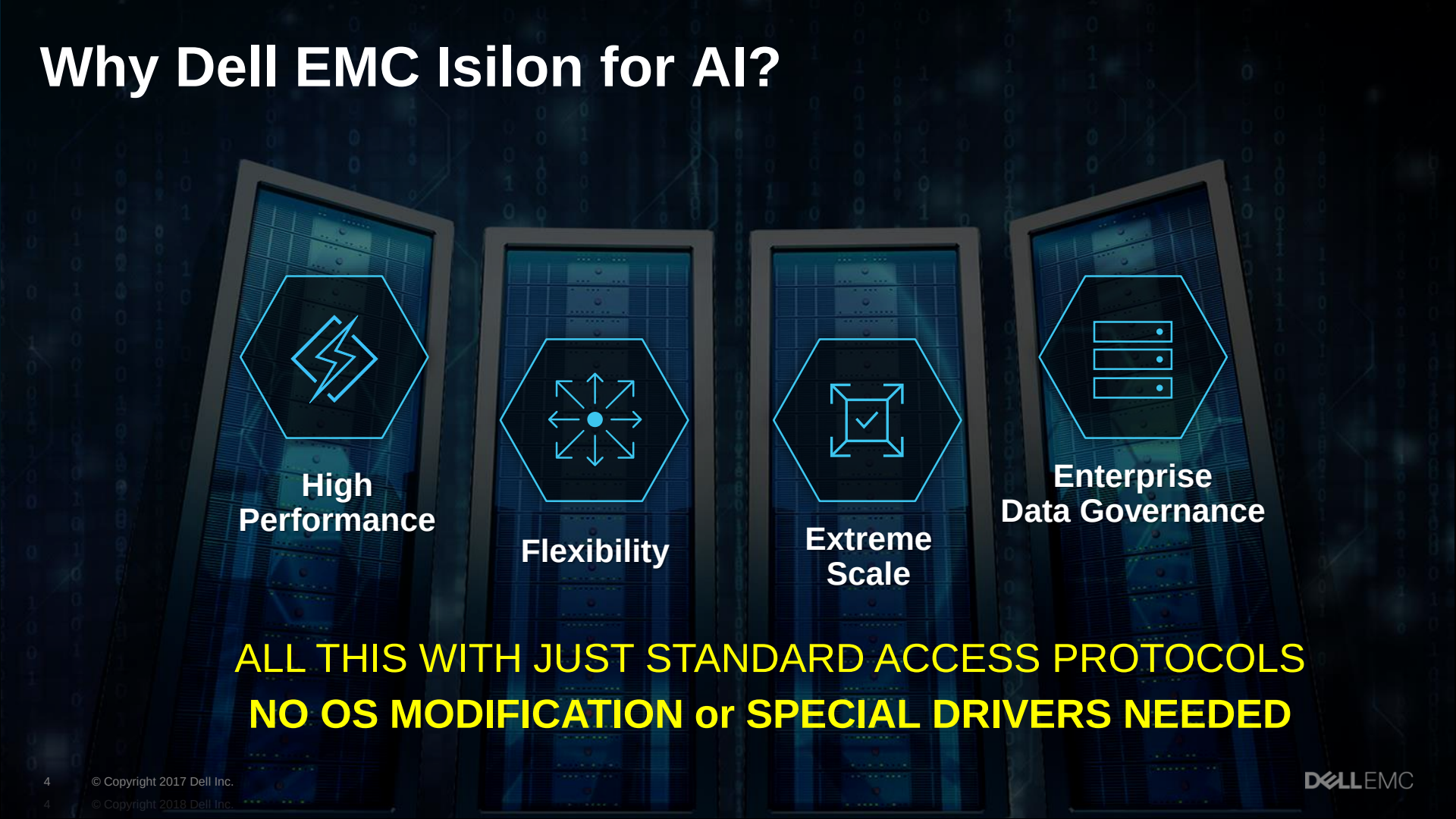
Why Dell EMC Isilon for AI?



ALL THIS WITH JUST STANDARD ACCESS PROTOCOLS

NO OS MODIFICATION or SPECIAL DRIVERS NEEDED

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4
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Dell EMC Isilon Deep Learning Solution Portfolio

Only vender to offer flexibility & informed choice with NVIDIA, the leader in AI

Augment existing Isilon with
F800 All-Flash

Dell EMC PowerEdge servers accelerated with NVIDIA GPUs

↑↓ Massively Parallel IO ↑↓

Ready Solution for AI:
Deep Learning with NVIDIA

Extreme Deep Learning
Isilon with NVIDIA DGX-1

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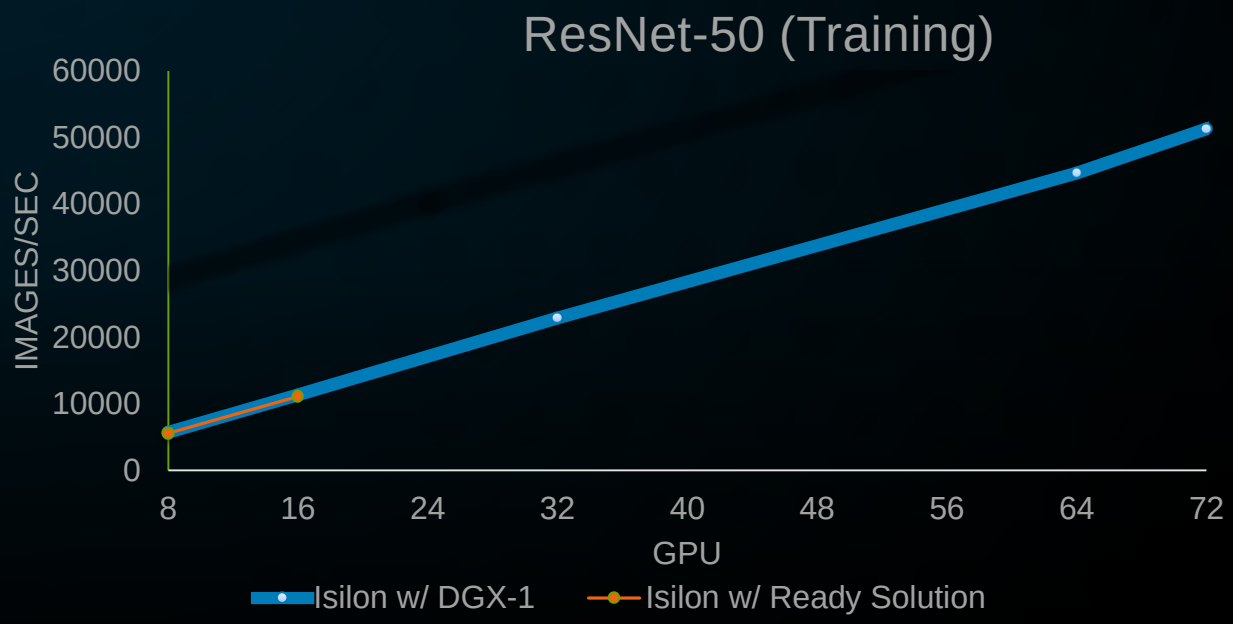
Isilon with NVIDIA GPUs Benchmark

Image detection with Tensorflow and 22 TB dataset



Highlights

- **Record performance:** 96% or more of theoretical max
- **Linear Scaling:** From 8 to 72 GPUs
- Only vender to publish above 32 GPUs

Not STAC Benchmarks

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Isilon eliminates the I/O bottleneck for AI at any scale

Ultra Dense

72TBs up to 924TBs in 4U

Seamless Scale to Over 68PBs

In a Single File System

No Special Storage Drivers Needed

Simply use NFS for data access

- Faster training and validation of AI models
- Higher model accuracy
- Improve data science productivity
- Maximize ROI of compute investments

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Thank You
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