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Because data needs to move
as fast as your business.
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# Safe Harbor

During the course of this meeting, we may make projections or other forward-looking statements regarding future events or the future financial performance of the Company and the industry. We wish to caution you that such statements are predictions and that actual events or results may differ materially. We refer you to the documents we file on a consolidated basis from time to time with Securities and Exchange Commission, specifically our most recent Form 10-K and Form 10-Q. These documents contain and identify important factors that could cause our actual results on a consolidated basis to differ materially from those contained in our projections or forward-looking statements. These certain factors can be found at **http://investors.micron.com/riskFactors.cfm**. Although we believe that the expectations reflected in the forward-looking statements are reasonable, we cannot guarantee future results, levels of activity, performance or achievements. We are under no duty to update any of the forward-looking statements after the date of the presentation to conform these statements to actual results.

# Turning Data Into Insight with Flash Storage & Persistent Memory

**Darren Thomas**

General Manager & Vice President of Storage

Micron

# Total Flash Storage Shipped*

**2015** 5%

**2016** 10%

*Source: Gartner



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# Market Dynamics

## Flash ROI vs. HDD

Power

**-73%**

Cooling BTU

**-73%**

Floor Space (CU FT)

**-88%**

Maintenance

**-84%**

Source: Solid-State Array TCO Reality Check, published 22 January 2016

Compute performance,
in the palm of your hand
Taking Data Storage
to the Third Dimension
Bringing Data
Closer to Compute
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*This is a really big deal… The broader implications are that analytics just got a whole lot more interesting.*

**- Patrick Moorhead, Moor Insights & Strategy**

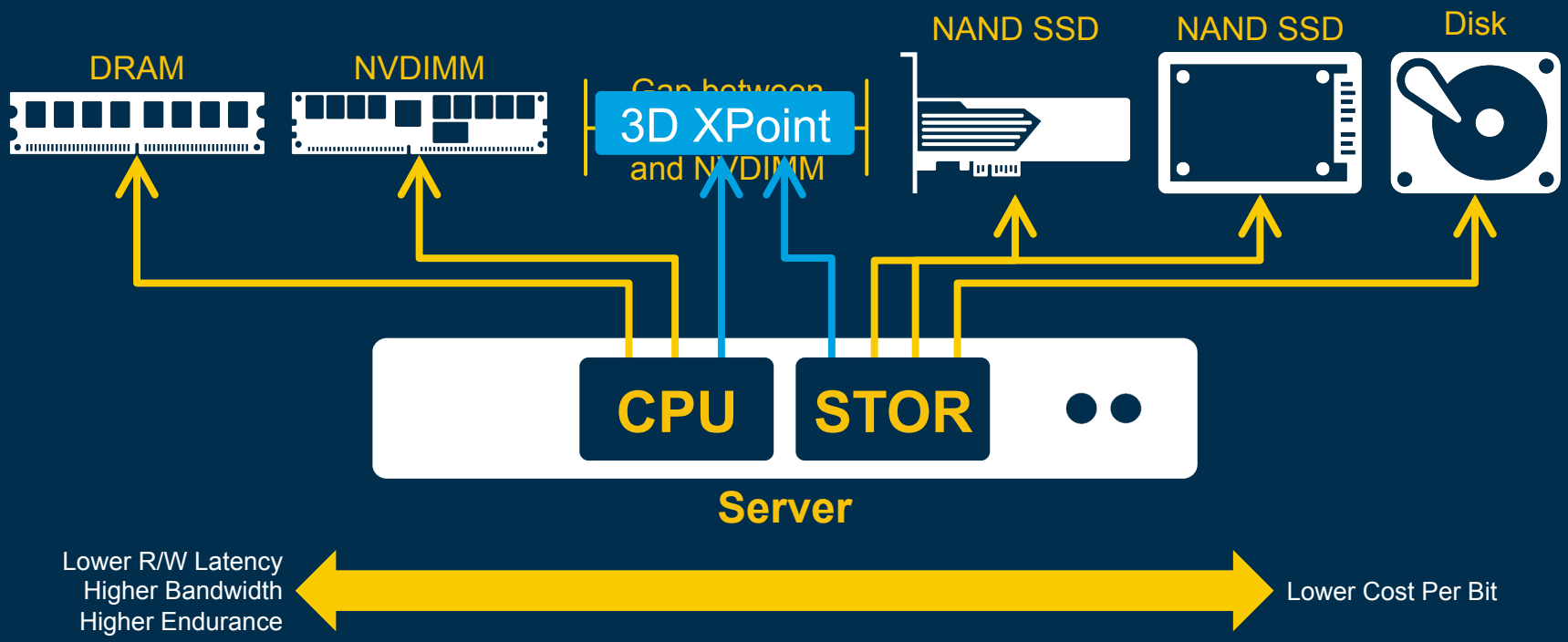
*There is no other game in town in this area of the memory-storage hierarchy…*

**- Jim Handy, Objective Analysis**

*This new type of storage is fundamentally and dramatically better than anything else we've seen in decades. Yes–decades.*

**- Justin Warren, Forbes**

# Server Memory & Storage Hierarchy



*Ladies & gentlemen, please put on your 3D glasses*

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クラウン
カラオケ
SHIDA
ニッカウヰスキー
ANGEL
2F2F
OMAHA GIRLS

*Community organizing is all about building grassroots support. It's about identifying the people around you with whom you can create a common, passionate cause. And it's about ignoring the conventional wisdom of company politics and instead playing the game by very different rules.*

**- Tom Peters,** business consultant & author

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**10X+**
IOPS Over NAND @ Low Queue Depths

**10X+**
Faster Response Time Than NAND

**4X+**
Memory Footprint Per CPU Than DRAM

Turning Big Data into **Fast** Data

Source: Performance assessment and system modeling of NVMe Micron QuantX technology SSD vs. NVMe NAND SSD – Micron Labs

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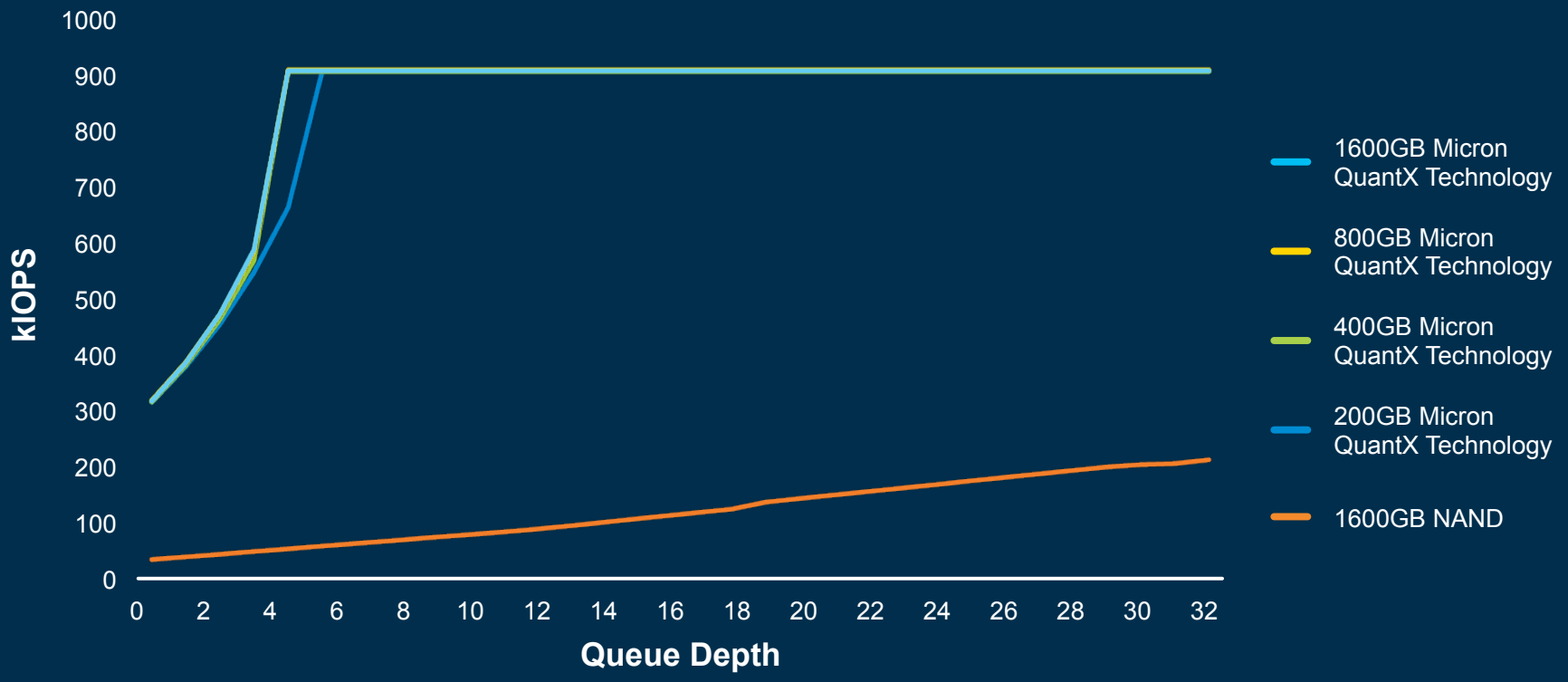
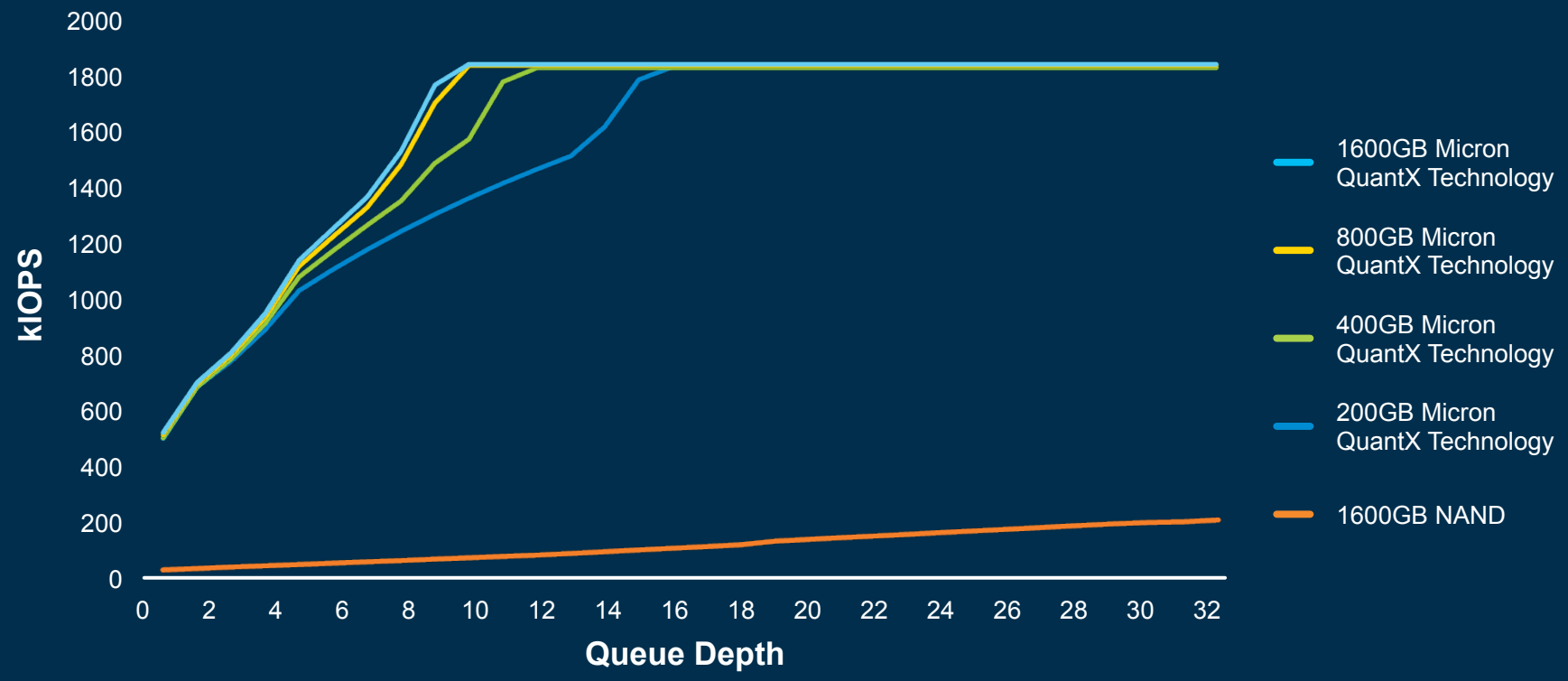
# U.2 – Mixed Use (4k Random, 70/30 Read/Write) IOPS




Source: Performance assessment and system modeling of NVMe Micron QuantX technology SSD vs. NVMe NAND SSD – Micron Labs

# HHHL x8 AIC – Mixed Use (4k Random, 70/30 Read/Write) IOPS




Source: Performance assessment and system modeling of NVMe Micron QuantX technology SSD vs. NVMe NAND SSD – Micron Labs

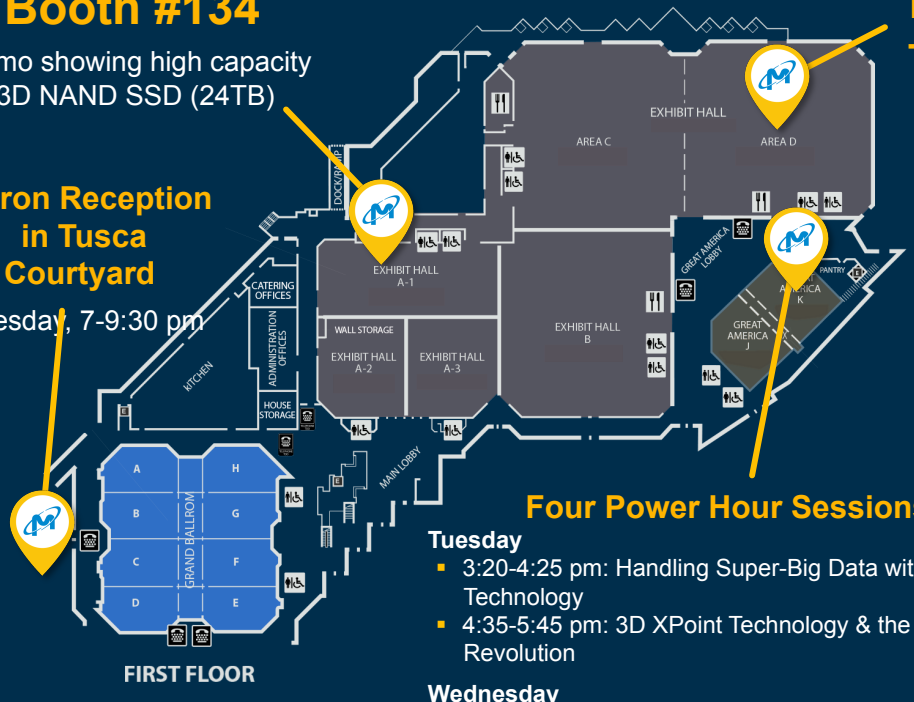
# Where is Micron at FMS?

## Booth #134

Demo showing high capacity 3D NAND SSD (24TB)

## Micron Reception in Tusca Courtyard

Tuesday, 7-9:30 pm




FIRST FLOOR

## NVMe Solutions Lab – Exhibit Hall Area D

NVMe over Fabric demo with Mellanox

SECOND FLOOR

## Four Power Hour Sessions – GAB K

**Tuesday**

- 3:20-4:25 pm: Handling Super-Big Data with New NVM Technology
- 4:35-5:45 pm: 3D XPoint Technology & the Coming Architecture Revolution

**Wednesday**

- 8:30-9:35 am: Memory Development to Driving Autonomously
- 9:45-10:50 am: Mobile Flash: Rethinking Storage Performance Benchmarks

## Solutions Showcase – Room #210

- Mellanox & NVMe over fabric
- 3D XPoint SSD vs. NAND SSD
- Automotive touch-screen demo
- NVDIMM Plexistor
- 3D NAND Client SSD Laptop demo
- 3D NAND in a Mobile platform with UFS

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