

Winning in the 5G Era Raj Talluri, SVP & GM of Mobile Business Unit

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Raj Talluri

SVP, Mobile Business Unit GM

- 25 years of semiconductor industry experience prior to Micron
- 9 years at Qualcomm
- 16 years at Texas Instruments
- Ph.D. in electrical engineering from the University of Texas in Austin



Agenda

5G Opportunity MBU Strategy MBU Results







5G Presents a Huge Opportunity

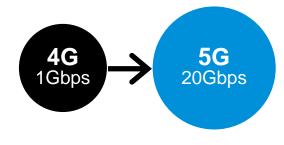
10x+ Change in Network Performance

Proliferation of Connected Devices

Mobile Unit Growth Catalyst **Mobile Content Growth Driver**

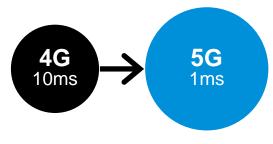


4G→5G Magnitude of Change Is Unlike **Anything** Before



20x faster download speed

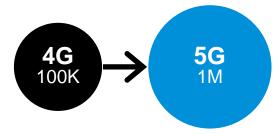
Download a full-length HD movie in seconds Media-rich experiences: streaming HD and 360° videos or mobile AR and VR any time, anywhere



10x lower latency

Real-time multi-player cloud gaming including VR/AR with no lag

Data streams from trillions of connected devices can be managed, and low latency allows real time robotic control



10x density of devices/km² Enabling the internet-of-things

Increased connection density for a large number of devices that sense, meter and monitor



5G Will Connect Everything



Mobile Edge **Automotive**

New memory and storage solutions enhance real-time gaming and videostreaming experiences

5G speeds & V2X connectivity feed on-board Al for autonomous driving, traffic management and infotainment



Industrial IoT

Enables real time data with <1ms latency, supporting highly dense deployments with up to 1M connections per km²



20x more 5G infrastructure peak throughput drives memory and storage density



Datacenter

Enterprise and cloud datacenters grow memory and storage to handle mobile connections





5G Enables Streaming Video Everywhere

8K live streaming, VR-enabled content, AR map, AR education and multichannel broadcasting offering alternative viewing angles

5G streaming video everywhere is data-heavy and requires:

Speed

- Faster download to enable 4K (eventually 8K) streaming
- Faster data processing required
- Higher memory density and bandwidth

Capacity

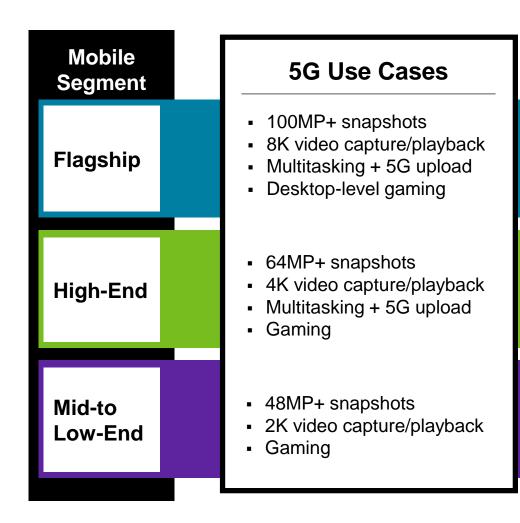
- Support more devices and more data-intensive video
- Fuel increased video consumption
- Spurs smartphone replacement demand and aspiration for more storage capacity

Latency

- No-lag video and immediate initiation of any download requests
- Faster data caching required
- Faster memory with lower latency



5G Use Cases Will Drive Content Growth

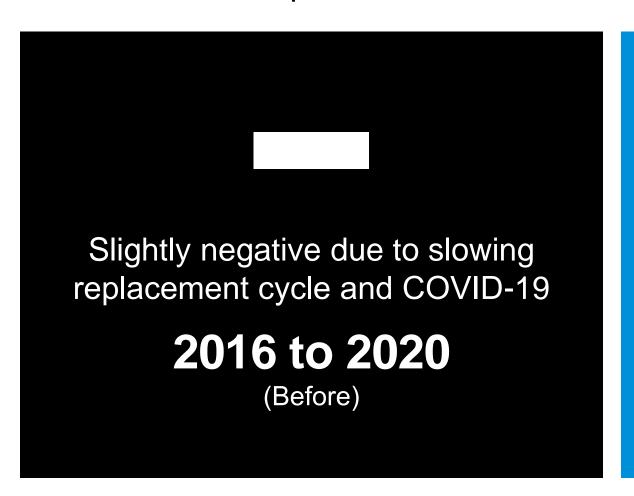


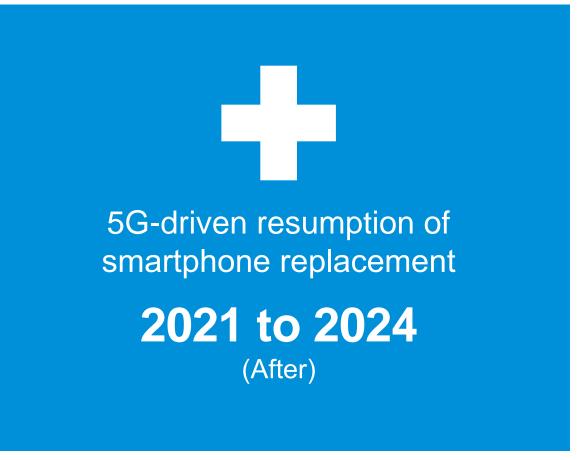
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4G to 5G Content Growth (2020)
DRAM
       6GB+
                     8GB+
NAND
       128/256
                     256/512GB
DRAM
       6GB+
                     8GB+
NAND
       128GB
                     128/256GB
                     6GB+
DRAM
       2/4GB
       32/64GB
NAND
                     64/128GB
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5G Is a Catalyst for Mobile Unit Growth

~450M 5G unit shipments forecasted for 2021







5G Will Drive Strong Mobile Bit Growth

2019-2022 Mobile Industry Bit CAGR Forecast

~15%
DRAM

~30% NAND

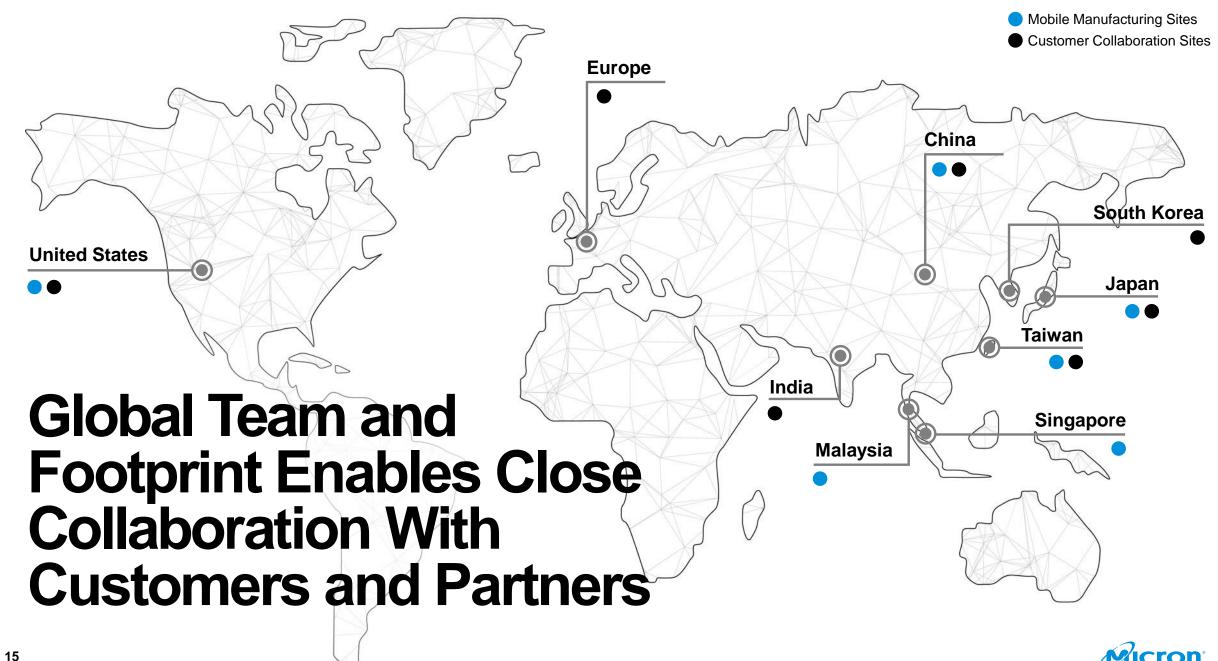




Micron Is Well-Positioned to Win in 5G Era



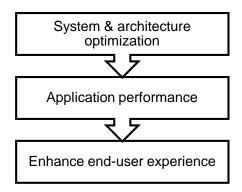


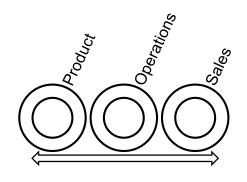


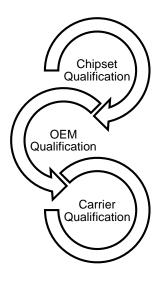


Industry's Best Talent

Organized to drive product and customer success







Expertise from silicon to customer systems

Experts in applications, trends and solution architectures

In-depth understanding of application architecture to device level

Go-to market coordination across **Micron**

Align product and engineering roadmaps

Optimize supply allocation across customers

Collaboration across the ecosystem

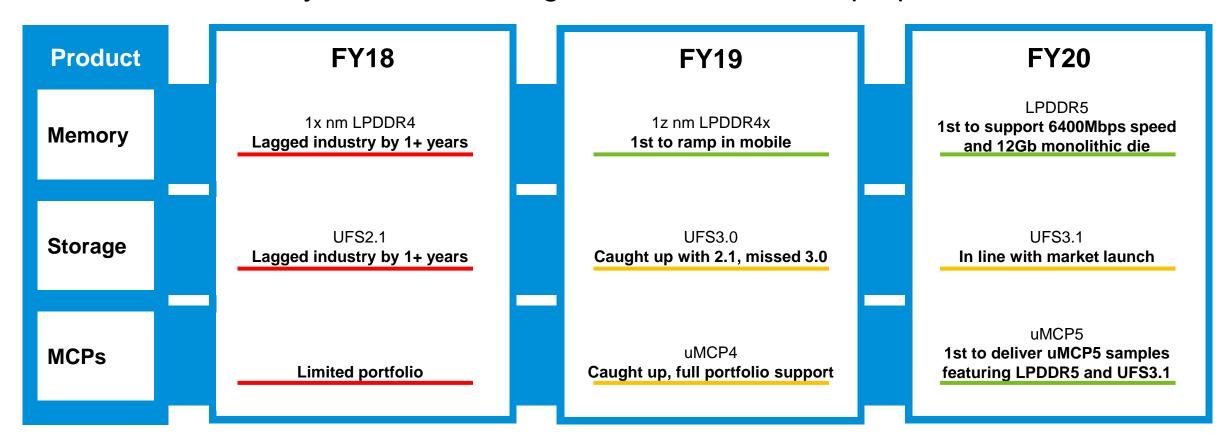
Validated architectural solutions

Proven hardware interoperability



The New Micron Is Rapidly Improving Execution

More mobile industry firsts, enhancing our customer value proposition





Mobile Tech & Product Leadership

Complete Mobile Portfolio

Qualified with all major chipsets

Memory LPDDR5, LPDDR4x

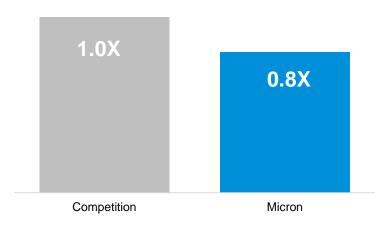
Storage Solutions
UFS3.1, UFS2.x, eMMC

Multichip Packages (MCPs) uMCP5, uMCP4x, eMCP4x

Redefining the End-User Experience

- Al & machine learning
- Rapid high-resolution photo/video capture
- Longer battery life
- Shorter app launch times
- Multitasking capability

LP5 Power Consumption 8k Video Recording (lower = better)



Competition refers to LP5 products offered by our industry competitors





Mobile Business Unit Results

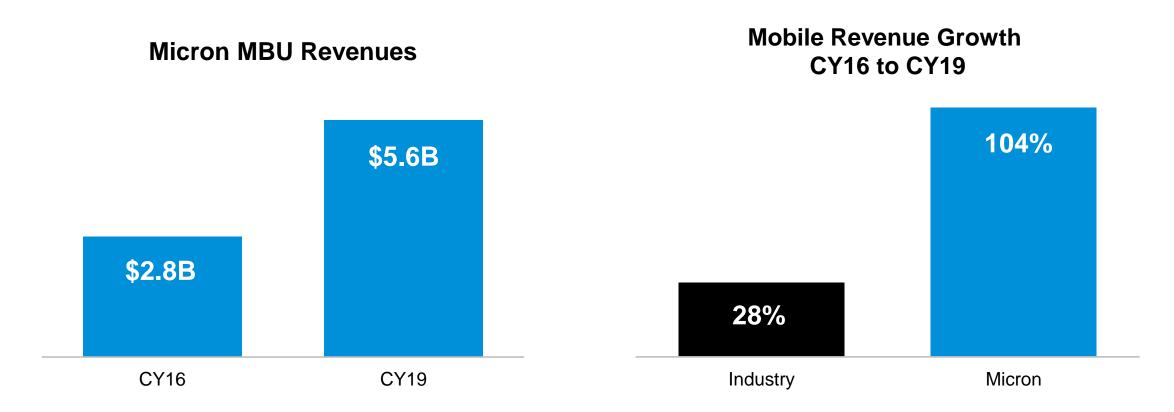
Market Share Opportunity

Gaining in High-Value Solutions

Strong Cross-Cycle Profitability



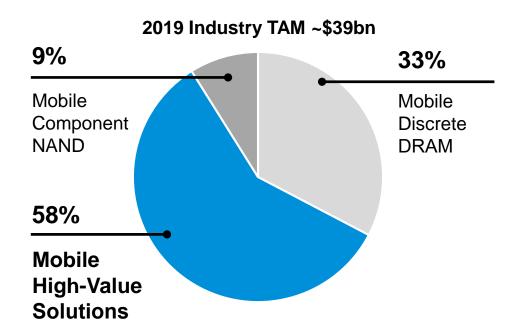
Strong Revenue Growth Outpacing the Industry





Gaining in Mobile High-Value Solutions

High value solutions make up the majority of the mobile market.

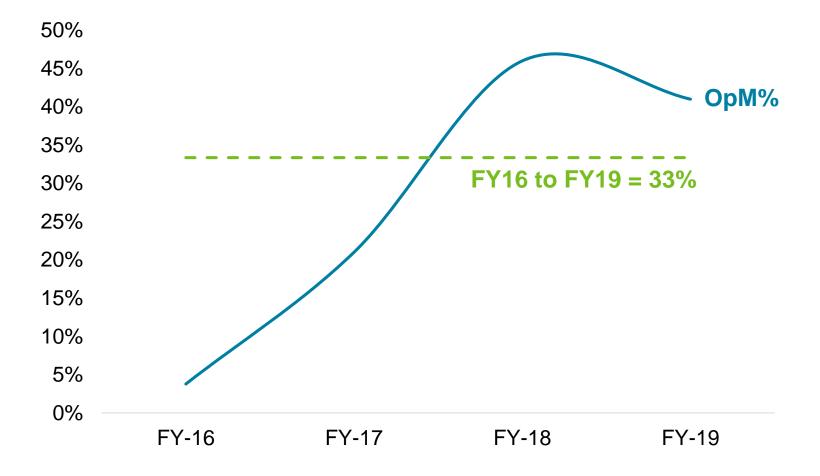


Micron's mobile high-value solution revenue more than tripled from 2016 to 2019, outpacing the industry.

We have more opportunity ahead.



MBU Strong Cross-Cycle Profitability FY16-FY19





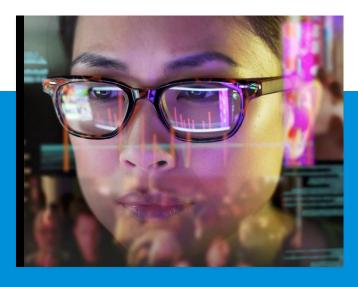
Winning in the 5G Era



5G is transformational



Micron & MBU are positioned to win



Our business results continue to improve



