Welcome

Samir Patodia

Investor Relations

May 12, 2022

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Ameron Investor Day 2022

Safe harbor statement

This presentation and associated commentary contain forward-looking statements regarding our future financial performance, the industry, and other future events. Such statements are predictions, and actual events or results may differ materially. We identify important factors in the documents we file from time to time with the Securities and Exchange Commission, specifically our most recent Forms 10-K and 10-Q, that could cause our actual results to differ materially from those contained herein. These factors can also be found at micron.com/certainfactors. 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 this presentation.

This presentation contains non-GAAP financial measures. Reconciliations to GAAP financial measures are contained herein in the section titled "Non-GAAP Reconciliations".



Today's presenters

Sanjay Mehrotra Mark Murphy **Sumit Sadana** Scott DeBoer Manish Bhatia EVP, Chief Business Officer President and CEO EVP, Chief Financial Officer EVP, Technology and Products EVP, Global Operations



Investor Day

Sanjay Mehrotra

President and CEO

A new era of leadership

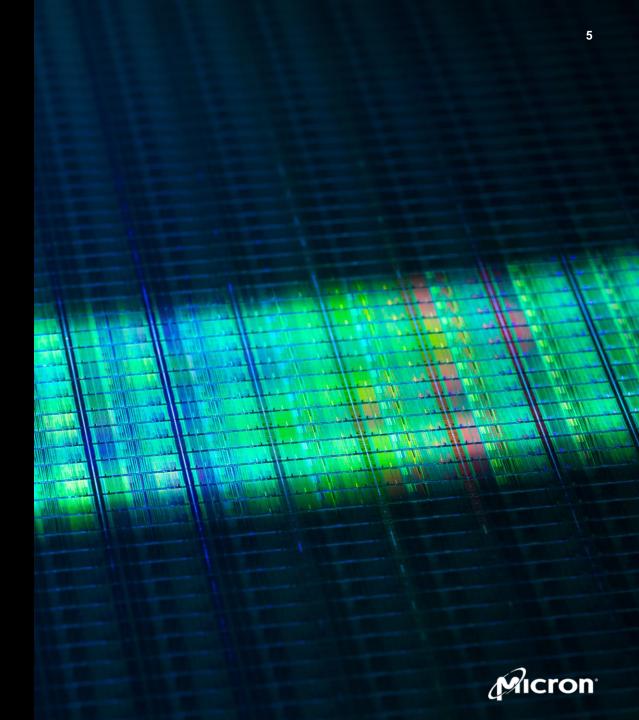


Agenda

The importance of memory and storage

Stronger industry dynamics

Micron's leading competitive position



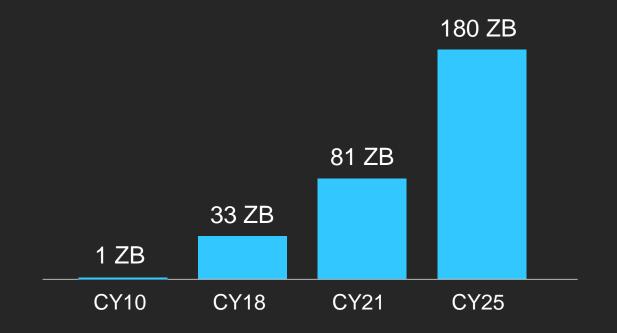
Data is transforming the world

Digitization of the global economy

Hyperconnectivity

Insights from AI/ML

Global data creation 1 ZB = 1 trillion gigabytes



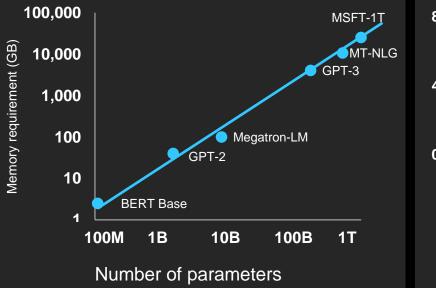
Source: IDC, Global DataSphere, March 2021 ZB = Zetabytes



Memory extends the frontier of what's possible

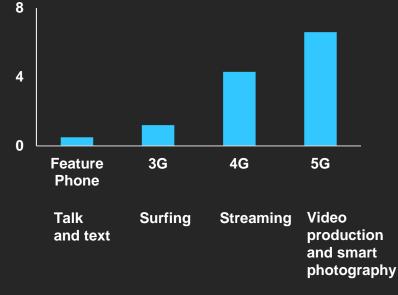
Across data center, devices and intelligent edge

More memory supports more capable natural language generation Al models

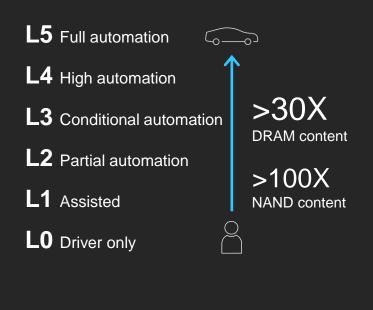


More memory helps transform mobile phones into mobile video production studios

Average DRAM in CY21 Phone (GB)



More memory enables autonomous driving at higher levels



Source: Cerebras (AI Chart), Micron estimates (automotive and mobile charts) GB = Gigabyte



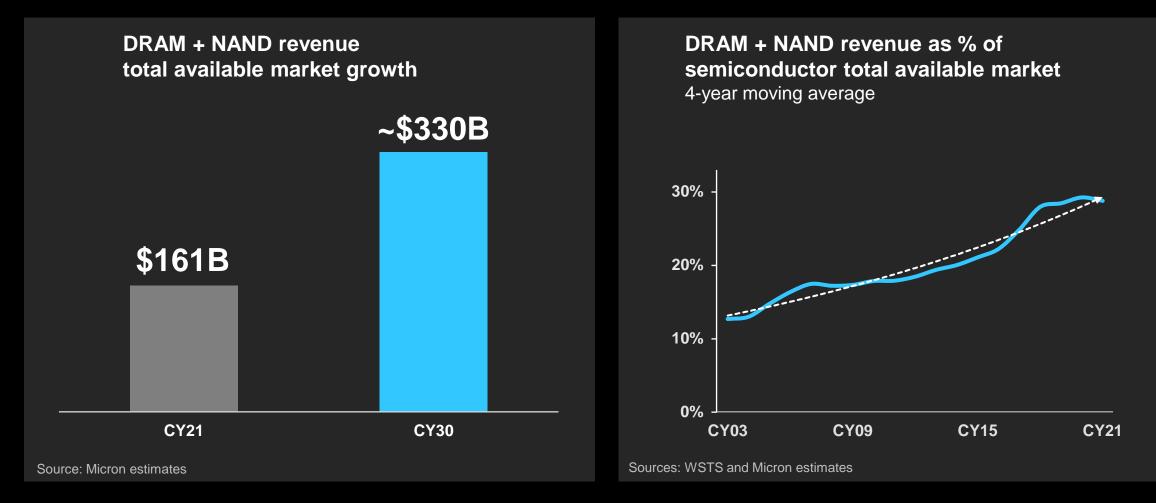
Memory and storage growth fueled by diverse end demand

Data center, industrial and automotive to drive even stronger growth

	Data center	Mobile	PC	Industrial	Auto	Others	Total
Market size CY21	\$50B	\$46B	\$34B	\$5B	\$4B	\$21B	\$161B
DRAM bit demand CAGR CY21-25	28%	14%	9%	24%	40%	16%	Mid to high teens %
NAND bit demand CAGR CY21-25	33%	24%	21%	45%	49%	35%	High 20s %



DRAM and NAND revenue growing faster than the broader semiconductors



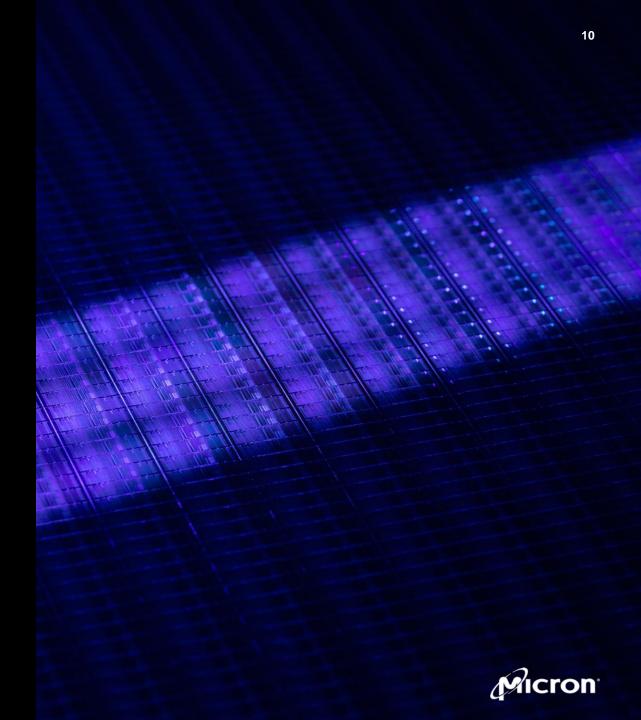


Agenda

The importance of memory and storage

Stronger industry dynamics

Micron's leading competitive position



Industry profitability has strengthened

>2,000bps improvement ~20% CY06-13 CY14-21

DRAM + NAND industry cross-cycle average

gross margins

Source: Company filings, Micron estimates

>40%

Micron

Industry supply discipline

Slowing of Moore's Law:

decelerating supply growth, reduced cost declines, improved pricing trendline, and ability to hold higher levels of inventory

ROIC focus:

requires disciplined industry capex

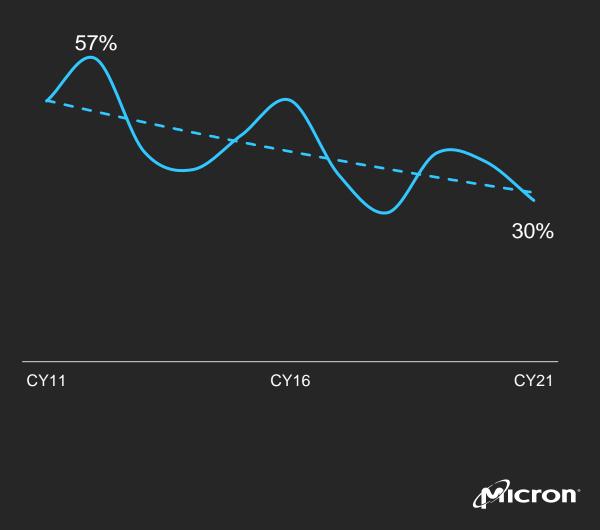
Capital return:

dividends paid by all leading DRAM suppliers

Micron strategy

growing bit supply in-line with demand

Industry wafer fab equipment spend as a % of EBITDA



Rising industry complexity

Industry dynamics

Rising capital	Growing intellectual	Increasing breadth	Importance of		Trusted customer relationships	
intensity and	property and	and complexity of	manufacturing			
associated scale	cumulative	products and	experience			
requirements	knowledge	technology	and quality			
Micron						
~\$100B		> \$20B		50,000		
Replacement value ¹		Cumulative R&D ²		Lifetime patents		

¹ Replacement value of manufacturing and R&D facilities, plus net cash ² Micron FY10 through Q2-22







Agenda

The importance of memory and storage

Stronger industry dynamics

Micron's leading competitive position



Industry's best talent changing the world through innovation

- Diverse talent
- ~45,000 strong across
 17 countries
- Driving end-to-end excellence from R&D to product delivery

Recent awards

Forbes Best Employers for New Graduates

100% Rating from the Corporate Equality Index

Great Place to Work awards in every major location

Great	China	Japan	United Kingdom
Place	Germany	Malaysia	United States
То	India	Singapore	
Work ®	Italy	Taiwan	



We aim to lead on technology

Innovation + execution = leadership

DRAM

1α: Industry's most advanced DRAM in volume production **1**β: Target to ramp in manufacturing before end of CY22

NAND

176-layer:

Industry's most advanced NAND in volume production

232-layer:

Target to ramp in manufacturing before end of CY22



We are a global manufacturing powerhouse investing in a sustainable future

Micron produces over 6 million wafers a year in diverse locations

Ships over **3 billion units a year**

Industry leadership in **smart manufacturing** and **quality**

We plan to invest over \$150B in Capex and R&D globally

over the next decade in line with industry demand

Geographic considerations:

- 1. Construction and operating costs (incl. government incentives)
- 2. Semiconductor ecosystem
- 3. World-class talent

Announcing our target to achieve:

Net Zero emissions by CY50

We are committed to sustainability – to better the environment and our communities





Customerfocused product leadership First to ramp advanced nodes across our products

Industry leading 1α and 176-layer across product portfolio

Leadership on new interface standards

First to market: DDR5, LPDDR5, LPDDR5X

Differentiated performance

Proprietary GDDR6X. Custom memory products

Quality leadership

Ranked as #1 by majority of our customers

Business model innovation

Driving improved business dynamics through new commercial arrangements



Strong execution enables financial leadership

2018 Investor Day commitments

Technology	 ✓ Achieve leadership in DRAM ✓ Complete NAND replacement gate transition 			
Product	 ✓ NAND high value solutions bits > 80% 			
Operations	✓ \$9B structural improvement			
Finance	 ✓ Return >50% free cash flow to investors 			

Financial achievements Over the last five years*

+16% Revenue CAGR

+1,970bps Gross margin % improvement

\$12B Cumulative R&D investment

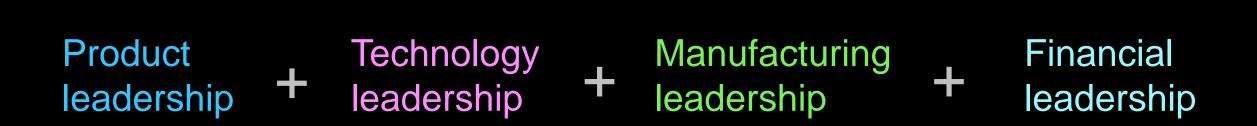
\$21 B Cumulative free cash flow We expect to deliver strong growth and profitability cross-cycle

Today we are presenting our financial model, reflecting confidence in the long-term health of our business

*Last five years: Q2-17 vs Q2-22 trailing twelve months for revenue and non-GAAP gross margin %, Q3-17 to Q2-22, inclusive, for cumulative R&D and free cash flow. Free cash flow is a non-GAAP measure defined as cash provided by operating activities less investments in capital expenditures, net adjusted for amounts funded by partners and proceeds from sales of PP&E.



Strong foundation for a new era of leadership



Creating value for all our stakeholders

Customers | Employees | Investors | Communities | Suppliers





Investor Day

Sumit Sadana

EVP, Chief Business Officer

Product and business leadership

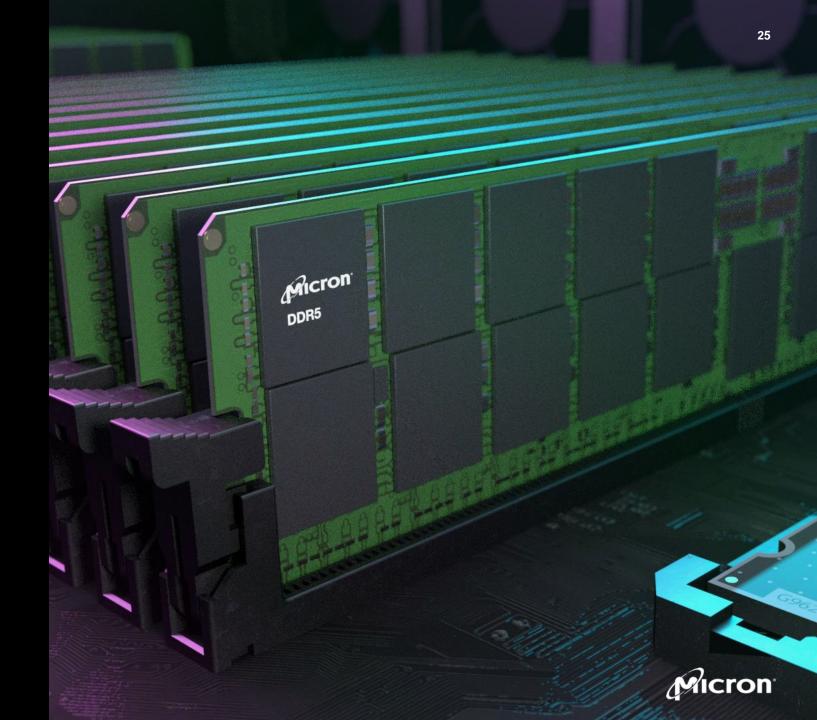


Agenda

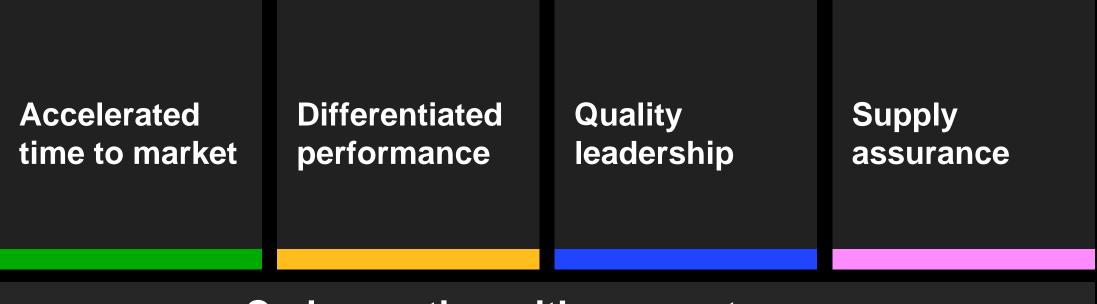
Product portfolio

End markets

Business model innovation



Micron delivers leadership products with compelling value propositions



Co-innovating with our customers



Leadership products across end-markets

Data Center, PC and Graphics DRAM	SSDs	Mobile	Automotive and Embedded	
 #1 market share in DDR5 	 Technology leader in consumer and client QLC SSDs 	 Low-power technology leader in LPDDR4, LPDDR5, LPDDR5X, MCP 	#1 market share in auto and industrial	
 World's fastest graphics memory: GDDR6X 	 World's first 176-layer NVMe data center SSD 	 First to market with LPDDR5 and LPDDR5X 	 World's first auto qualified UFS 3.1 and LPDDR5 	
Technology leadership: 1α DRAM and 176-layer NAND				

Quality leadership: Ranked #1 by majority of our customers

DDR = Double Data Rate, GDDR = Graphics Double Data Rate, LPDDR = Low-Power Double Data Rate, MCP = Multi-Chip Package, NVMe = Non-Volatile Memory Express, QLC = Quad Level Cell, UFS = Universal Flash Storage



Revenue mix shifting to higher growth, more stable, and less seasonal end-markets

Approximate percentage of Micron's revenue FY21 \rightarrow FY25

Automotive + Industrial + Networking

15% → 20%

High market share in fast growing, stable margin end markets

Data Center + Graphics

30% → 42%

AI/ML, data economy driving secular growth

PC + Mobile + Other

55% → 38%

Lower mix of consumer, seasonal market exposure



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Agenda

Product portfolio

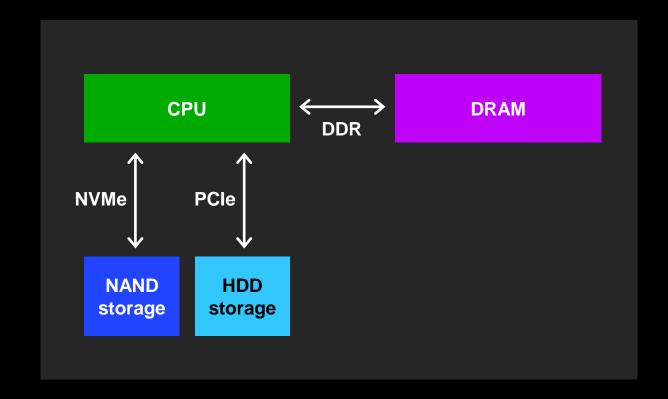
End markets

Business model innovation



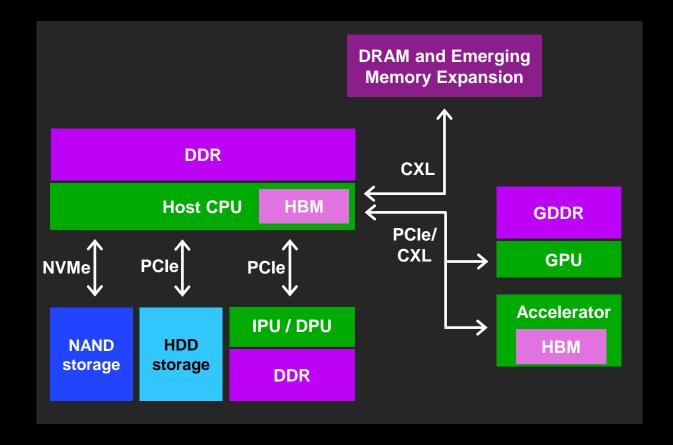
Legacy compute platforms

Simple, homogeneous server architecture, standards-based memory design





Data intensive workloads drive heterogenous data center architecture



Heterogenous architecture benefits

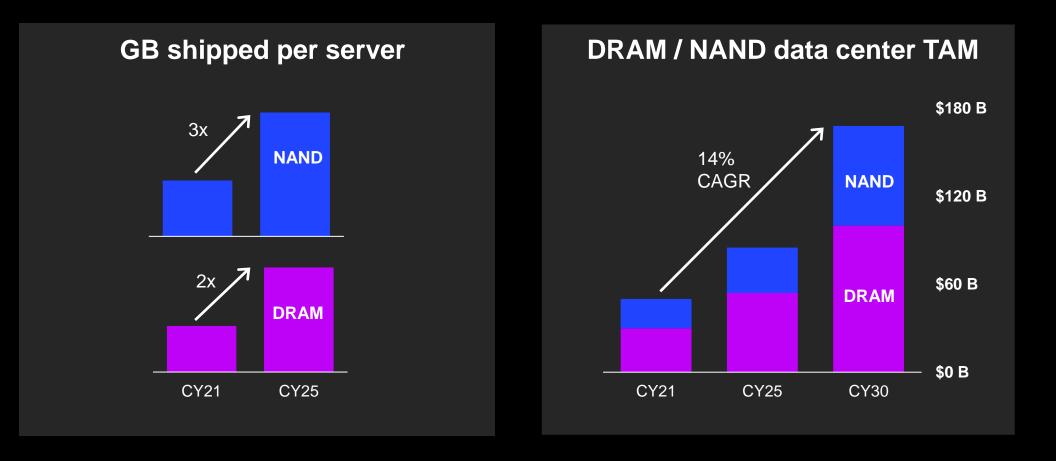
- Flexible and scalable
- Improved performance
- Reduced power consumption

Increasing datasets and compute core counts drive need for memory expansion, accelerated by CXL interface

Micron well positioned to lead platform innovation with customers



Data center: Growing content, growing value





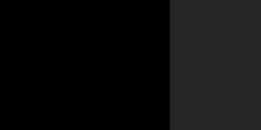
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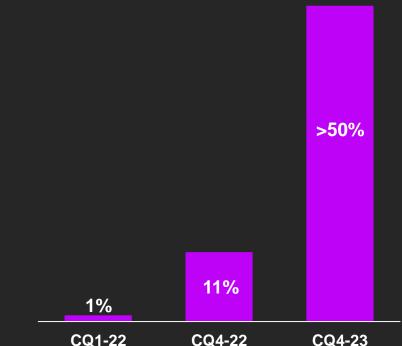
DDR5 penetration of industry server DRAM

Micron leading DDR5 transition

#1 market share

Industry's most developed ecosystem





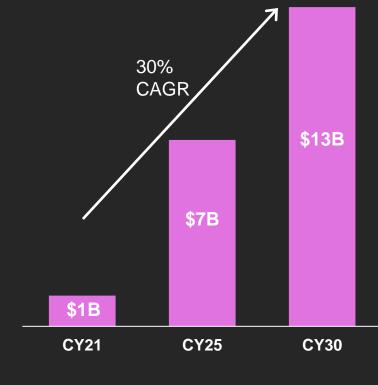
DDR5 majority of server DRAM by the end of CY23



Micron now ramping high-bandwidth memory

- Qualified HBM2E at #1 volume customer in the HBM market
- Aggressively driving leadership HBM roadmap with focus on performance, power and capacity

HBM market TAM



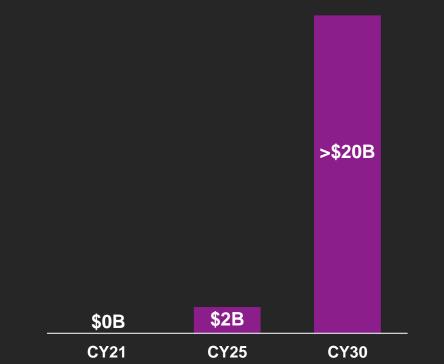
AI/ML drives strong HBM growth



CXL market TAM

Micron leading CXL innovation

- Differentiation in memory solutions
- Leadership in emerging memory

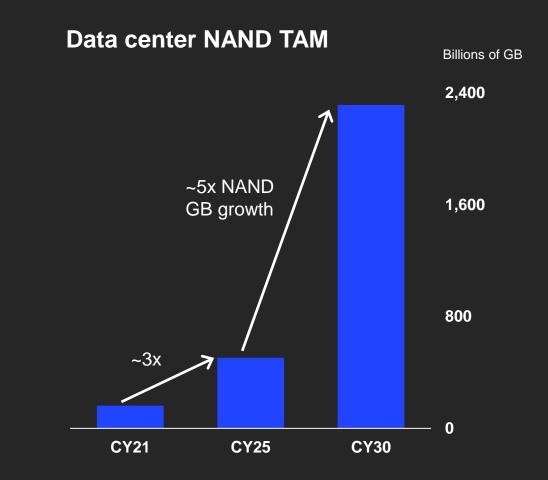


Heterogeneous architecture driving CXL TAM growth



Micron gaining share in data center SSD

- Industry leading NAND technology, quality of service and mixed I/O performance
- Second generation vertically integrated NVMe SSD in volume production



Data center NAND growth accelerates as innovative solutions reduce TCO

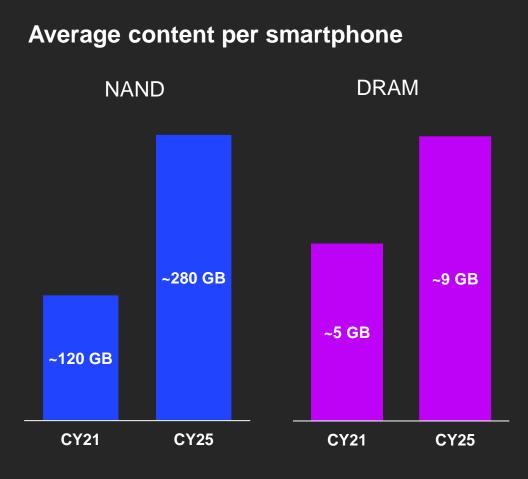


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Source: Micron estimates

Micron leading in mobile solutions

- Low-power technology leader in LPDDR4, LPDDR5, LPDDR5X and MCP
- >50% of DRAM and 60% of NAND shipped in FY22 in MCPs is based on 1α/176-layer technology



5G penetration drives content growth

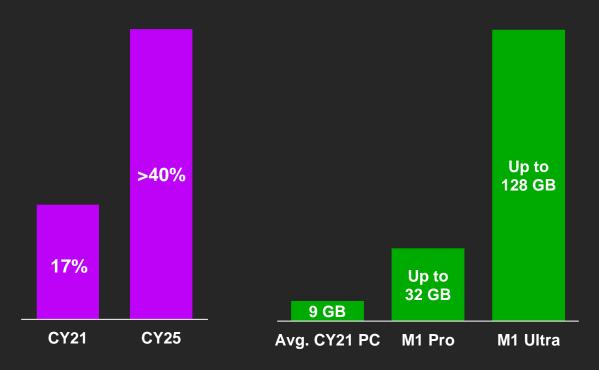
CY21: $\sim 40\% \rightarrow CY25: 80\% +$ Mobile 5G percentage of smartphone units



Micron leading key transitions in PC

- Low-power technology leader in LPDRAM
- Leading the PC DDR5 transition
- Industry leading client QLC SSDs

LPDRAM percentage of total industry PC DRAM GB PC DRAM content



LPDRAM PC penetration increasing New architectures driving innovation and content growth



Source: Micron estimates, Apple.com QLC = Quad Level Cell

Explosion of industrial IoT devices at the edge

Micron leading in industrial products

- #1 market share, with quality and reliability leadership
- Broadest portfolio with long-life cycle support and application optimized solutions





Al-enabled video security and analytics

Smart factory and robotics

Smart grid and clean energy



Drones and Industrial transport



Industrial AR/VR



Low earth orbit (LEO) communication

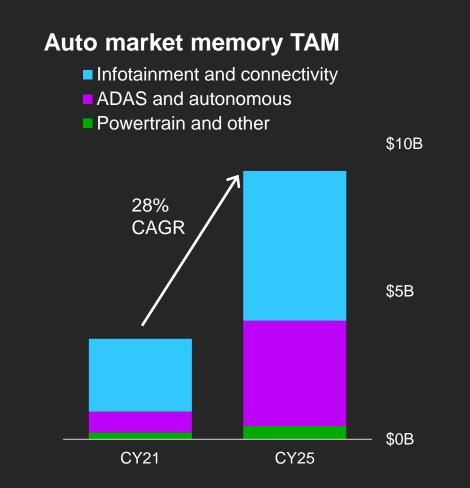


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Micron leading in automotive

- #1 market share
- Highest quality, performance and most expansive portfolio
- Co-innovating with customers





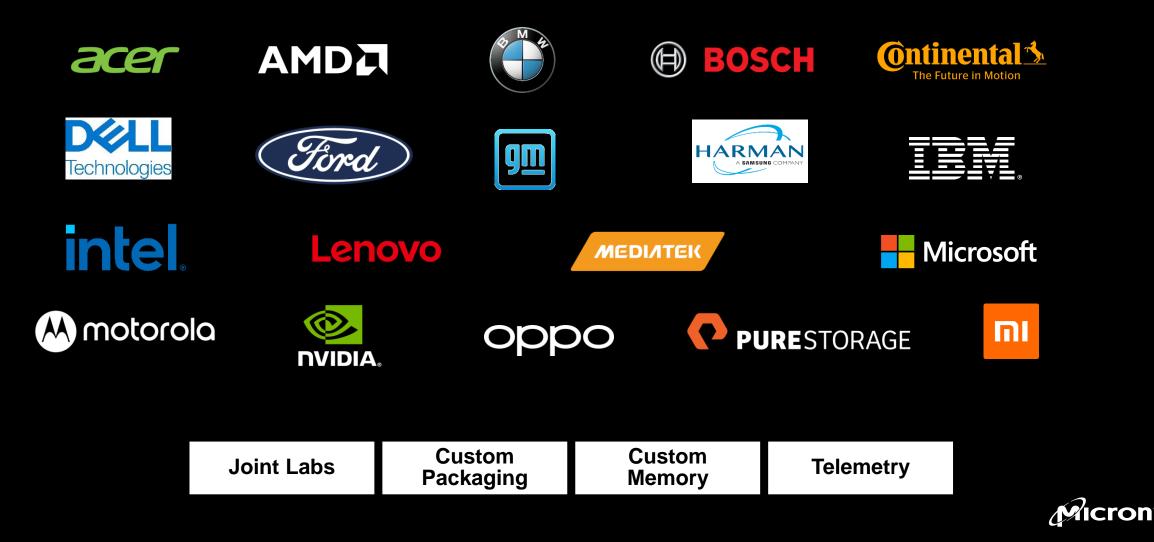
Long term annual opportunity: ~100M "data centers on wheels"







Micron's customer and ecosystem relationships enable co-invention / innovation and drive industry adoption







Agenda

Product portfolio

End markets

Business model innovation



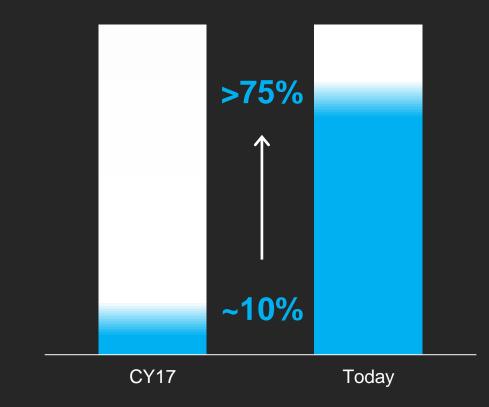
Long-term agreements drive improved business dynamics

Increased visibility into customers' plans

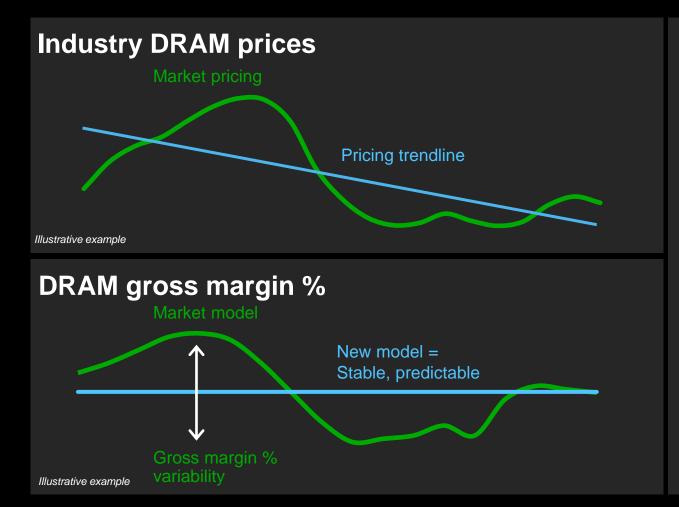
Reduced volatility, supply / demand mismatches

Improved revenue consistency

Long term agreements % of Micron revenues



Business model innovation: forward pricing agreements



Customers win

- Guaranteed supply
- Reduction in working capital
- Guaranteed price reductions

Micron wins

- Stable gross margins
- Planning predictability
- Guaranteed volumes / share

Announcing our first 3-year DRAM contract with a top 10 customer >\$500M/year revenue



Product and business leadership





Investor Day

Scott DeBoer

EVP, Technology and Products

Technology and product leadership



Memory industry's strongest engineering team

Diverse global team delivering technology and product leadership

- Process, product and solutions R&D
 - United States Japan* Singapore* India Italy China Germany Taiwan*

*Technology embedded at manufacturing site

Culture of innovation

Global talent fuels innovation

Vertical integration

Silicon to systems focus on end-application value

Customer focus

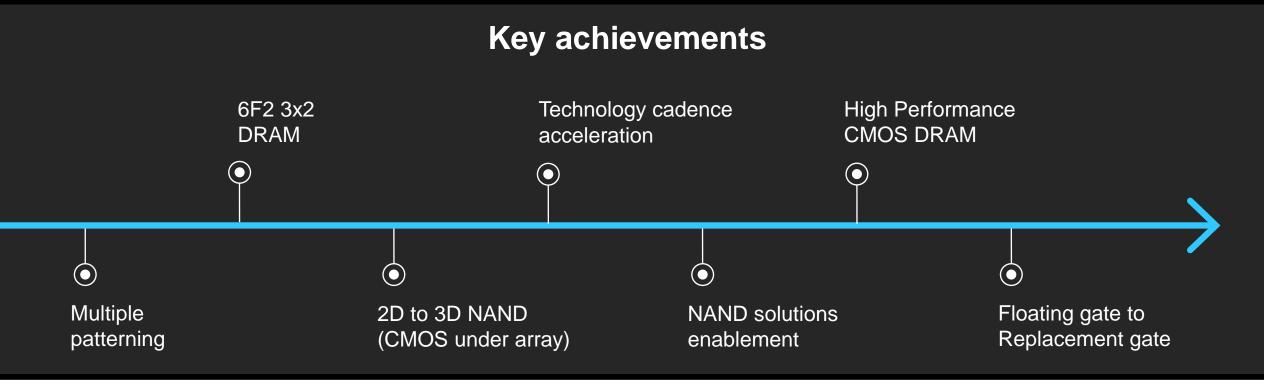
Partnership for innovation and quality





Winning technology strategy

Executing through major technology and product transitions



Positioned to extend leadership with future initiatives

EUV, HBM Next, CXL, Next gen AI memory, High NA EUV, 3D DRAM, emerging memory

CMOS = Complimentary Metal Oxide Semiconductor, High-NA EUV = High-Numerical Aperture Extreme Ultraviolet Lithography

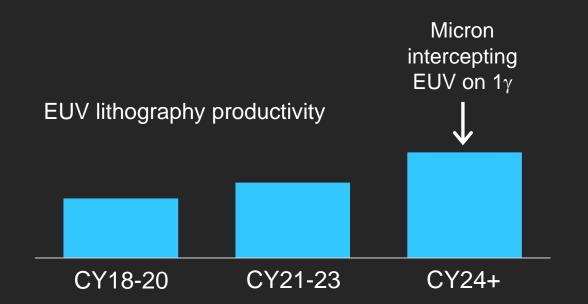


Introducing EUV at the right time

Technology and cost leadership with multiple patterning through 1β DRAM

CY24 ramp with EUV

- More advanced tools
- Improved equipment reliability, productivity and performance
- Maturity of enabling technologies (reticles, resists)
- Differentiation enabled at 1γ



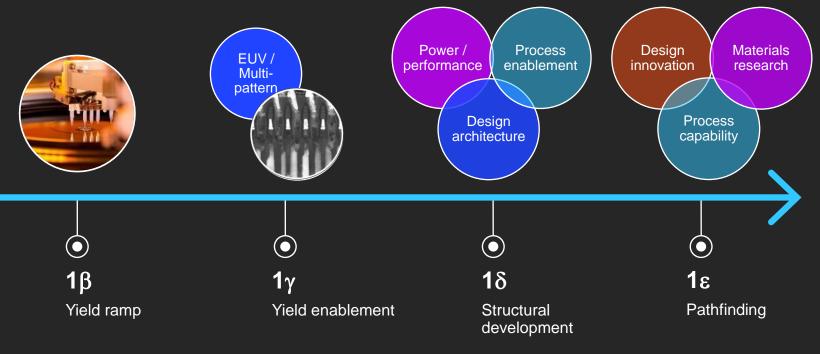
Optimized solution: Multiple EUV layers plus appropriate use of advanced multiple patterning 193nm technology



DRAM technology roadmap

Sustained leadership: Excellence in quality, performance, density and cost

- Advanced CMOS at 1β
- EUV introduction at 1γ
- Extending planar DRAM roadmap
- High NA EUV R&D investment
- Continued investment in 3D DRAM R&D

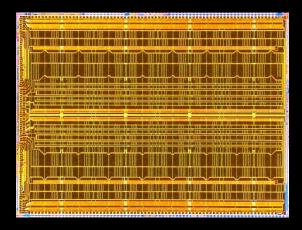


Planar DRAM roadmap



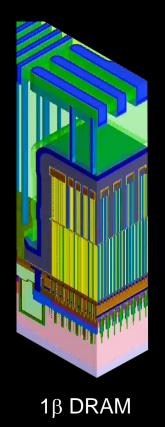
1β: The world's most advanced DRAM

Industry leadership sustained – starting ramp in late CY22



16Gb LPDDR5

- Advanced pattern multiplication lithography
- Extend DDR5 and LPDDR5 leadership
- Delivers graphics, HBM3 and automotive excellence
- Leadership in power, performance and cost





DRAM product excellence

Leadership in compute, mobile, automotive DRAM and graphics

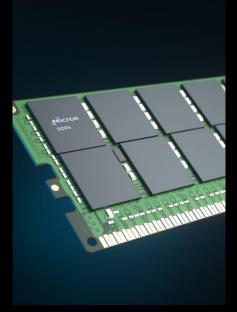
Mobile and auto

Micron

LPDDR5X

leadership

Compute leadership



Industry leading DDR4 and DDR5 performance and cost

Industry's first automotive qualified 1α LPDDR4 LPDDR5X industry

leadership for high bandwidth operation

Worlds fastest DRAM GDDR6X at 24 Gbps

Graphics

leadership

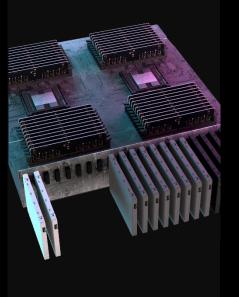
PAM 4 based GDDR6X

High-bandwidth memory

future workloads



New memory architecture



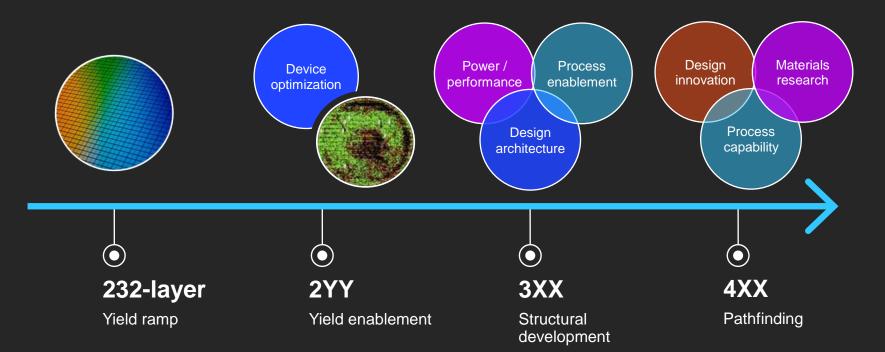
CXL roadmap focus on customer co-invention



NAND technology roadmap for leadership

Enabling leadership for the next decade

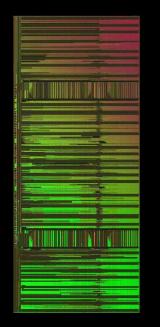
- Advanced CMOS enabling performance
- Extending dual stack technology
- Expanding QLC leadership





232-layer: The world's most advanced NAND

Industry leadership sustained – starting ramp in late CY22



1Tb TLC NAND

- Extending CuA and 2 array stack process architecture
- Optimized for leadership in managed NAND and SSD
- Combination of external and optimized internal controllers
- Increased density, power and bandwidth node-over-node

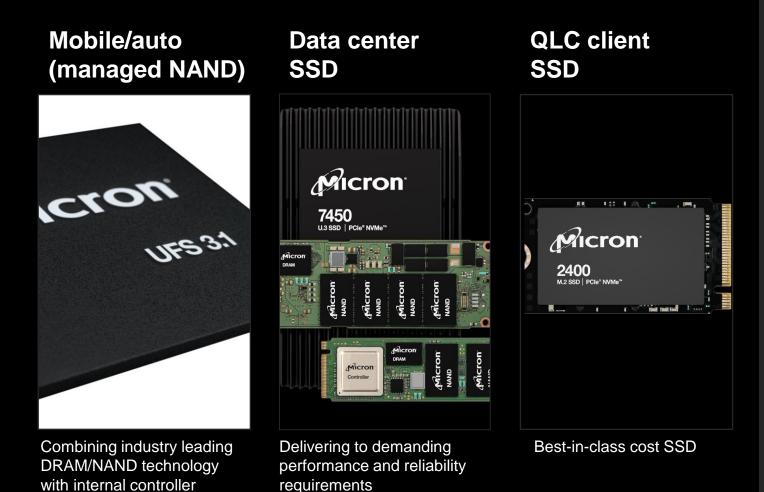


232 Layer, 2 stack, CuA* NAND



NAND product leadership

Leveraging 176-layer NAND technology



Vertical integration

Enabling leadership, product differentiation, and accelerated time-to-market



Micron

Delivering technology and product excellence

Team + Technology + Products Momentum for a new era of leadership













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Manish Bhatia

EVP, Global Operations

Operational leadership



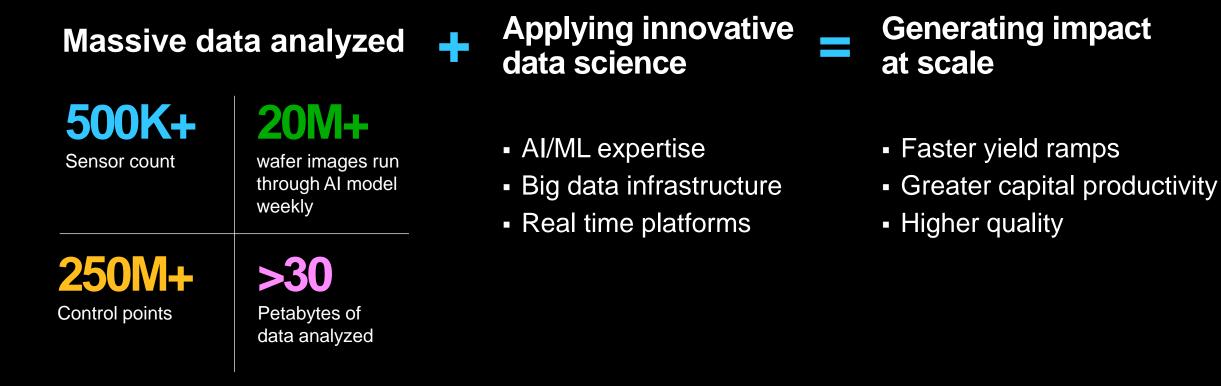
Global manufacturing footprint is a competitive advantage

Enabling structural flexibility and diverse workforce



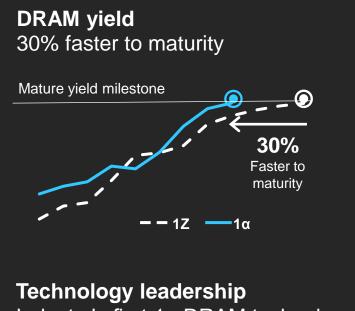
Smart manufacturing deployed across our operations

Recognized leader in smart manufacturing by third parties* as well as by semiconductor equipment and materials partners





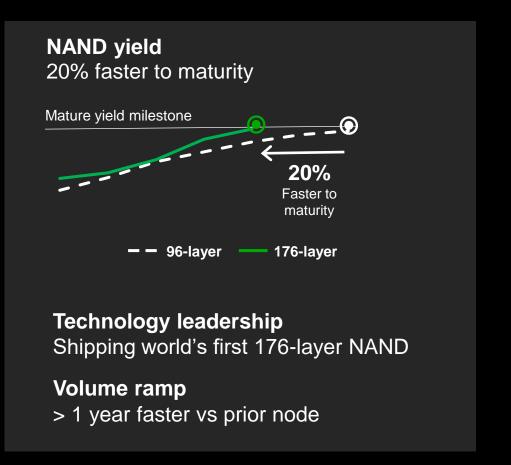
Accelerating ramps of leading-edge technology



Industry's first 1a DRAM technology

Volume ramp

~ 5 months faster vs prior node

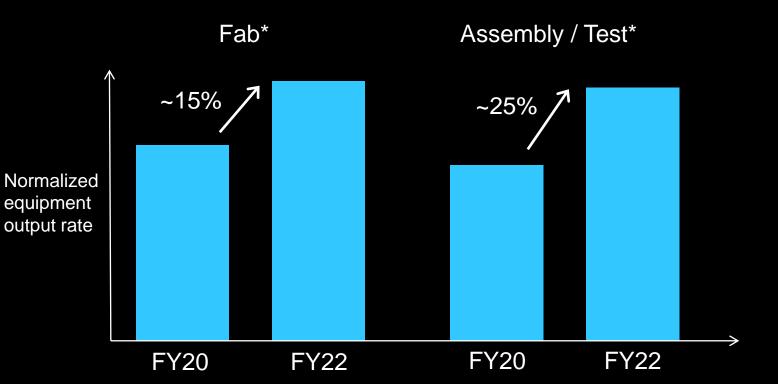




Relentless pursuit of productivity

More than **\$6B** in capital savings since FY20 across the network

- Throughput improvements
- Tool avoidance
- Cleanroom space productivity





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Highest quality differentiates Micron from competition

- Leveraging smart manufacturing platforms for early detection and real time response
- Culture of Quality Benchmark*: Micron is #1 in the semiconductor space and Top 5% across all companies globally
- More than 80% of our customers rank Micron #1 or #2

"Micron is definitely best in class in quality and an indispensable supplier for DRAM" - Leading Japanese Tier 1 automotive supplier

*Culture of Quality Benchmark: Gartner index measuring employee responses on quality excellence pillars



Enhanced cost competitiveness

Micron frontend memory industry cost position*	CY16	CY22	Long-term target (annual cost reduction rate)
DRAM	3 rd	2 nd	High single digits
NAND	4 th	1 st	Low to mid teens

- Frontend cost reductions in FY22 are outpacing the industry
- Competitive BOM / assembly / test costs via vertical integration and operational excellence



Scaling Assembly and Test capabilities

Combination of in-house and subcontractor assembly enables scale and flexibility to meet customer needs

- Building geographic redundancy
- In-house footprint above 60%
- Long term agreements with subcontractors

Micron's in-house design and development of high-performance test equipment delivers a unique capability

- Extends vertical integration
- Drives cost competitiveness
- Enables faster volume ramps

In-house sites

China	Malaysia	Singapore	Taiwan
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Subcontractor sites

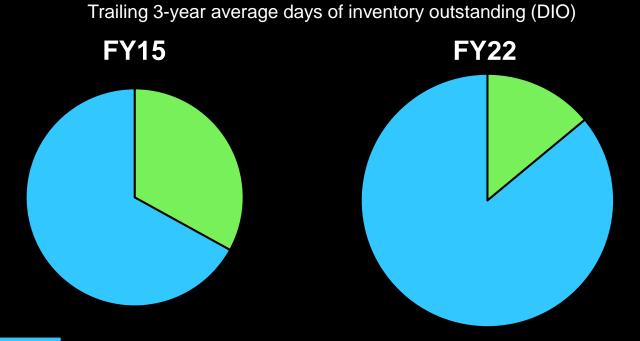
China <mark>Malaysia Taiwan</mark> Korea M	exico
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Strategic inventory management enables agility

Achieving better customer service while lowering finished goods inventory levels





Increasing process steps from technology complexity and supporting high value solutions Higher material inventory requirements to ensure production continuity

Demand driven postponement model resulting in lowest inventory level in more than a decade and improved customer delivery by **20 percentage points** (FY22 vs. FY18)



Our memory. Our planet.

Climate goals

Target	Net Zero (scope 1 + 2) CY 2050
Scope 1	42% absolute reduction CY2030 vs. CY2020 (in line with international agreements 1.5°C trajectory)
Scope 2	100% renewable in U.S. and Malaysia CY2025

Conservation and recycling goals

Water 75% water conservation CY2030

Waste **95%** reuse, recycle and recovery with Zero hazardous waste to landfill CY2030

\$1B investment in sustainable operations financed with green bonds

Expand **renewable energy** sourcing globally to support net zero goal

Collaboration with ecosystem

and industry providers to develop sustainable solutions

Scope 1: Direct emissions comprising process greenhouse gas, heat transfer fluid and fuel, measured against CY20 baseline Scope 2: Indirect emissions comprising purchased energy



End to end vision and execution

- Leading-edge technology at scale
- Supply continuity for our customers
- Peerless product quality
- Responsibleoperations for a sustainable future





Investor Day

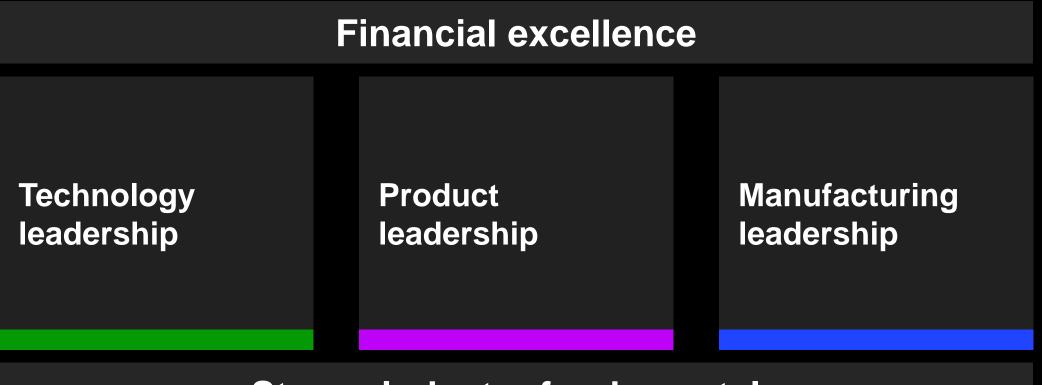
Mark Murphy EVP, Chief Financial Officer

Delivering financial performance



Sustainable financial performance

Built on Micron leadership and strong industry fundamentals

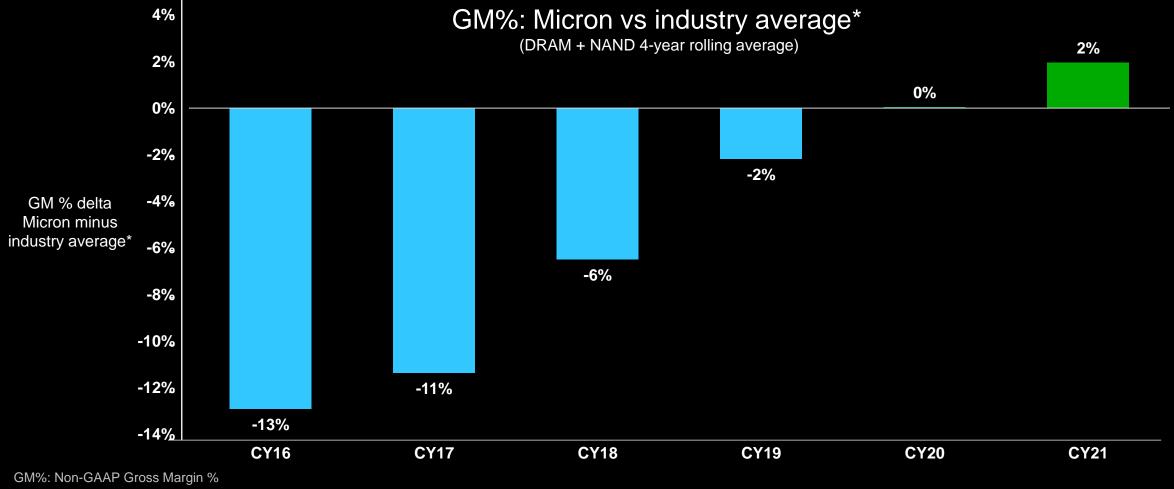


Strong industry fundamentals



Margin outperformance on strong execution

Technology, product, and manufacturing execution underpin relative margin improvement

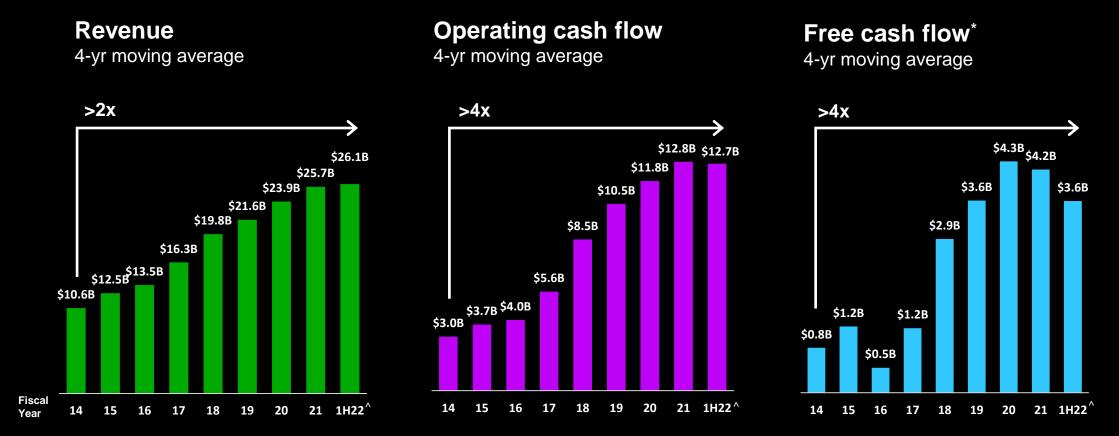


*Industry average excludes Micron



Strong revenue growth and cash generation

Robust cross-cycle performance



*Free cash flow is a non-GAAP measure defined as cash provided by operating activities less investments in capital expenditures, net adjusted for amounts funded by partners and proceeds from sales of PP&E. A reconciliation of non-GAAP measures is included in the section titled "Non-GAAP Reconciliations"

^ 1H22 4-yr moving average info are based on 2H18 though 1H22 actual results



Micron's cash strategy enables future success

Technology, product, and manufacturing leadership enable robust free cash flow

Cash sources (FY18 – FQ2'22)	Cash uses (FY18 –	FQ2'22)	Results				
	R&D ¹ \$11B		Technology and product leadership				
Cash flow from operations (before R&D investment) ¹	Invest in future growth	Capex, net ² \$40B	Driving profitable growth and manufacturing scale				
\$70B	Strengthen balance sheet	Net cash increase ³ \$10B	Reduced to <0.5x leverage ⁴ Total cash ⁵ of \$12B				
	Return cash	Buybacks + convert premium + dividend: \$8B ⁶	94M shares repurchased + 62M reduction from converts ⁶				

¹ Cash flow from operations before research and development is a non-GAAP measure defined as net cash provided by operating activities plus research and development added back. ²Investments in capital expenditures, net is a non-GAAP measure defined as capital expenditures net of amounts funded by partners and proceeds from sales of property, plant, and equipment. ³Net cash is a non-GAAP measure defined as total cash less total debt ⁴Leverage is defined as ratio of gross debt to Adjusted EBITDA. Adjusted EBITDA is a non-GAAP measure defined as non-GAAP net income plus interest, taxes, depreciation and amortization of intangible assets. ⁵Total cash includes cash, short-term investments, long-term marketable investments, and restricted cash. A reconciliation of non-GAAP measures is included in the section titled "Non-GAAP Reconciliations". ⁶ 43M out of 62M convert shares were settled in FY18 with a ~\$2B convert premium



Significant value in Micron's assets

Hard to replicate combination of manufacturing capabilities, IP, and human capital

~\$100B

Replacement value of manufacturing and R&D facilities, and net cash

~50,000

Patents granted

~45,000

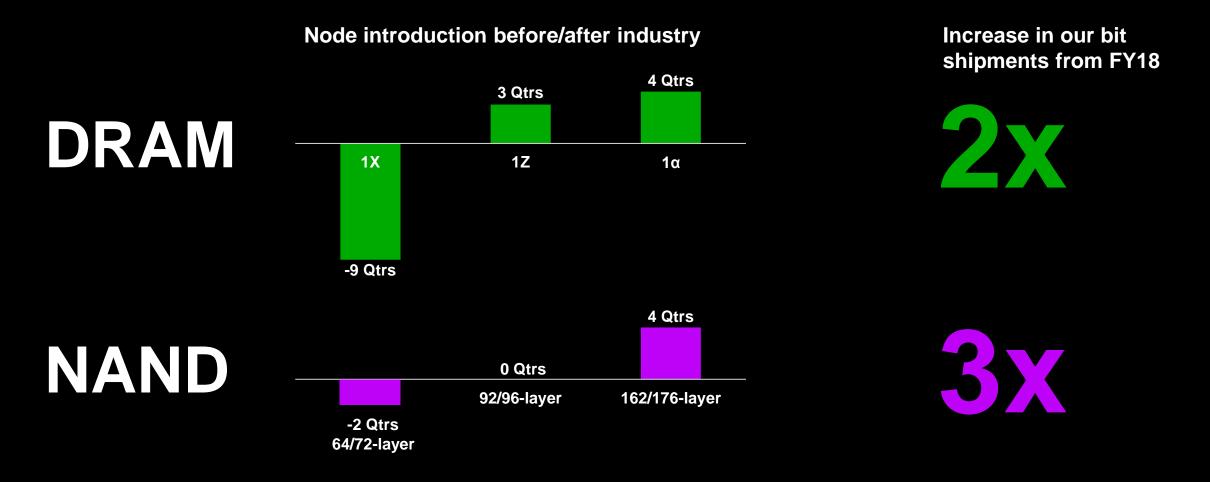
Team members across 17 countries

~50,000 lifetime patents granted and ~45,000 team members as of May 5th, 2022



Node leadership and bit growth through investment

Leadership with leading edge node transitions





Micron

Solid balance sheet

Financial flexibility and lower cost of capital



Leverage is defined as ratio of gross debt to Adjusted EBITDA (Trailing Twelve Months). Adjusted EBITDA is a non-GAAP measure defined as non-GAAP net income plus interest, taxes, depreciation and amortization of intangible assets. Net Cash is defined as sum of cash, short-term investments, long-term marketable investments, and restricted cash, minus debt. A reconciliation of non-GAAP measures is included in the section titled "Non-GAAP Reconciliations"



Cross-cycle financial model

Expect industry trends and Micron execution to support strong growth and cross-cycle profitability

Growth CAGR Revenue High single digit Memory requirements outpace broader semi growth **Cross-cycle targets** Operating margin >70% of revenue from DRAM; strong synergies with NAND ~30% Low 50s EBITDA margin Robust operating performance as % of revenue Mid 30s Capex¹ Disciplined capex investment as % of revenue >10% FCF² Return cash to shareholders as % of revenue

¹Capex net of amounts funded by partners and proceeds from sales of property, plant, and equipment (PP&E)

²Free cash flow is a non-GAAP measure defined as cash provided by operating activities less investments in capital expenditures, net adjusted for amounts funded by partners and proceeds from sales of PP&E



Capital allocation priorities

	Invest in the business	Financial flexibility	M&A
1	Invest in technology development, manufacturing capacity, global talent, and sustainability	Maintain liquidity, net cash position, and investment grade rating	Value creation through acquisition

2	Cash return	



Today, we are announcing our first dividend increase

\$0.115 QUARTERIN 15% increase



Value creating capital allocation

Stronger capital return

Invest in business	Capex ¹ mid 30s % of revenue						
Liquidity ² Net cash ³	Liquidity of mid 30s % of revenue Maintain positive net cash position						
Cash Return	 Return all free cash flow Over the cycle beyond balance sheet and s Growing dividend Increasing quarterly dividend from \$0.10 to \$0.115 per share Target to continue to grow dividend over time* Confidence in EBITDA and FCF generation capability of the business 	 strategic M&A considerations Buybacks Programmatic buybacks to dollar cost average Opportunistic buybacks to augment programmatic 					

TARGETS

¹Capex net of amounts funded by partners and proceeds from sales of property, plant, and equipment ²Cash, short-term investments, long-term marketable investments, restricted cash, and undrawn revolver capacity ³Net Cash is defined as sum of cash, short-term investments, long-term marketable investments, and restricted cash, minus debt *Future declarations of guarterly dividends are subject to the determination and discretion of Micron's Board of Directors



Delivering financial performance

Strong industry fundamentals

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Micron leadership and execution

Growth and cash return





Amounts in millions	FY-11	FY-12	FY-13
Net cash provided by operating activities	\$ 2,482	\$ 2,115	\$ 1,811
Expenditures for property, plant, and equipment	(2,550)	(1,871)	(1,442)
Proceeds from sales of property, plant, and equipment	127	67	28
Payments on equipment purchase contracts	(322)	—	(16)
Amounts funded by partners	14	203	16
Investments in capital expenditures, net	 (2,731)	(1,601)	(1,414)
Adjusted free cash flow	\$ (249)	\$ 514	\$ 397
Amounts in millions	FY-14	FY-15	FY-16
Amounts in millions Net cash provided by operating activities	\$ FY-14 5,698	\$ FY-15 5,209	\$ FY-16 3,169
	\$	\$	\$
	\$	\$	\$
Net cash provided by operating activities	\$ 5,698	\$ 5,209	\$ 3,169
Net cash provided by operating activities Expenditures for property, plant, and equipment	\$ 5,698 (3,107)	\$ 5,209 (4,021)	\$ 3,169 (5,817)
Net cash provided by operating activities Expenditures for property, plant, and equipment Proceeds from sales of property, plant, and equipment	\$ 5,698 (3,107) 43	\$ 5,209 (4,021) 36	\$ 3,169 (5,817) 37
 Net cash provided by operating activities Expenditures for property, plant, and equipment Proceeds from sales of property, plant, and equipment Payments on equipment purchase contracts 	\$ 5,698 (3,107) 43 (30)	\$ 5,209 (4,021) 36 (95)	\$ 3,169 (5,817) 37 (46)
 Net cash provided by operating activities Expenditures for property, plant, and equipment Proceeds from sales of property, plant, and equipment Payments on equipment purchase contracts Amounts funded by partners 	\$ 5,698 (3,107) 43 (30) 108	\$ 5,209 (4,021) 36 (95) 220	\$ 3,169 (5,817) 37 (46) 75

Amounts in millions		FY-17	FY-18	FY-19
Net cash provided by operating activities	\$	8,153	\$ 17,400	\$ 13,189
Expenditures for property, plant, and equipment		(4,734)	(8,879)	(9,780)
Proceeds from sales of property, plant, and equipment		93	208	146
Payments on equipment purchase contracts		(519)	(206)	(75)
Amounts funded by partners		13	895	754
Other free cash flows		361	_	_
Investments in capital expenditures, net	-	(4,786)	(7,982)	(8,955)
Adjusted free cash flow	\$	3,367	\$ 9,418	\$ 4,234
Adjusted free cash flow – 4-year moving average	\$	1,212	\$ 2,888	\$ 3,609
Amounts in millions			FY-20	FY-21
Net cash provided by operating activities			\$ 8,306	\$ 12,468
Expenditures for property, plant, and equipment			(8,223)	(10,030)
Proceeds from sales of property, plant, and equipment			69	108
Payments on equipment purchase contracts			(63)	(295)
Amounts funded by partners			 272	502
Investments in capital expenditures, net			 (7,945)	(9,715)
Adjusted free cash flow			\$ 361	\$ 2,753
Adjusted free cash flow – 4-year moving average			\$ 4,345	\$ 4,192



Amounts in millions	2H-18		FY-19		FY-20
Net cash provided by operating activities	\$	9,416	\$	13,189	\$ 8,306
Expenditures for property, plant, and equipment		(4,662)		(9,780)	(8,223)
Proceeds from sales of property, plant, and equipment		104		146	69
Payments on equipment purchase contracts		(53)		(75)	(63)
Amounts funded by partners		551		754	272
Investments in capital expenditures, net		(4,060)		(8,955)	(7,945)
Adjusted free cash flow	\$	5,356	\$	4,234	\$ 361

Amounts in millions	FY-21	1H-22		
Net cash provided by operating activities	\$ 12,468	\$	7,566	
Expenditures for property, plant, and equipment	(10,030)		(5,876)	
Proceeds from sales of property, plant, and equipment	108		48	
Payments on equipment purchase contracts	(295)		(105)	
Amounts funded by partners	502		66	
Investments in capital expenditures, net	(9,715)		(5,867)	
Adjusted free cash flow	\$ 2,753	\$	1,699	
Adjusted free cash flow – 4-year moving average		\$	3,601	



Amounts in millions	FQ4-17	FQ2-22
Cash and short-term investments	\$ 5,428	\$ 10,122
Current and noncurrent restricted cash	107	108
Long-term marketable investments	617	1,717
Current and long-term debt	(11,134)	(7,076)
Net cash	\$ (4,982)	\$ 4,871

Amounts in millions	FY-18	FY-19	FY-20
Net cash provided by operating activities	\$ 17,400	\$ 13,189	\$ 8,306
GAAP research and development	\$ 2,141	\$ 2,441	\$ 2,600
Stock-based compensation	(54)	(68)	(86)
Other	(3)	(30)	(1)
Non-GAAP research and development	\$ 2,084	\$ 2,343	\$ 2,513
Cash flow from operations before research and development	\$ 19,484	\$ 15,532	\$ 10,819

Amounts in millions	FY-21	1H-22	FY18 – 1H-2	
Net cash provided by operating activities	\$ 12,468	\$ 7,566	\$	58,929
GAAP research and development	\$ 2,663	\$ 1,504	\$	11,349
Stock-based compensation	(110)	(83)		(401)
Other	 (1)	(1)		(36)
Non-GAAP research and development	\$ 2,552	\$ 1,420	\$	10,912
Cash flow from operations before research and development	\$ 15,020	\$ 8,986	\$	69,841



Amounts in millions	FY-18	FY-19	FY-20
GAAP net income	\$ 14,138	\$ 6,358	\$ 2,710
Interest (income) expense, net	222	(77)	80
Provision (benefit) for income taxes	168	693	280
Depreciation and amortization of property, plant, and equipment and intangibles	4,759	5,424	5,650
Non-GAAP adjustments			
Stock compensation	198	243	328
Restructure	28	(32)	60
(Gain) loss on debt repurchases & conversions	385	396	(40)
Standard Cost FIFO and Cost Absorption	_	_	_
Other	92	205	—
Adjusted EBITDA	\$ 19,990	\$ 13,210	\$ 9,068
Amounts in millions			FY-21
GAAP net income			\$ 5,861
Interest (income) expense, net			146
Provision (benefit) for income taxes			394
Depreciation and amortization of property, plant, and equipment and intangibles			6,214
Non-GAAP adjustments			
Stock compensation			395
Restructure			488
(Gain) loss on debt repurchases & conversions			1
Standard Cost FIFO and Cost Absorption			293
Other			 181
Adjusted EBITDA			\$ 13,973



Amount in millions	Q1-17	Q2-17	Q3-17	Q4-17	Q3-21	Q4-21	Q1-22	Q2-22
Gross Debt				\$11,134				\$7,076
GAAP net income	\$180	\$894	\$1,647	\$2,368	\$1,735	\$2,720	\$2,306	\$2,263
Interest (income) expense, net	132	153	143	132	38	38	35	43
Provision (benefit) for income taxes	31	38	92	(47)	65	230	219	255
Depreciation and amortization of property, plant, and equipment and intangibles	771	1,003	1,021	1,066	1,557	1,621	1,671	1,742
Non-GAAP adjustments								
Stock compensation	46	55	57	57	98	93	116	119
Restructure	29	4	12	(27)	453	22	38	5
(Gain) loss on debt repurchases & conversions	-	-	61	37	1	-	83	-
Other	33	40	61	26	7	(3)	(65)	75
Adjusted EBITDA by Quarter	\$1,222	\$2,187	\$3,094	\$3,612	\$3,954	\$4,721	\$4,403	\$4,502
Adjusted EBITDA Trailing Twelve Months				\$10,115				\$17,580
Leverage ratio (Gross Debt / Adjusted EBITDA)				1.1				0.4









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Thank you

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