Kioxia Corporate Strategy Meeting

Kioxia's Medium- to Long-Term Growth Strategy in the Age of Al Kioxia Holdings Corporation June 5th, 2025



Agenda

- 1. Our Role in the Generative Al Revolution
- 2. Flash Memory Market Growth and Our Long-Term Financial Model
- 3. Storage Strategy for Generative Al
- 4. Our Leadership in Flash Memory Technology
- 5. Manufacturing and Capital Investment Strategy
- 6. Q&A

Nobuo Hayasaka

President and CEO

Junichiro Yaguchi

Managing Executive Officer, CSO

Masashi Yokotsuka

Managing Executive officer Vice president, SSD div.*

Hiroo Oota

Executive Vice President and Executive Officer

Tomoharu Watanabe

Executive Vice President and Executive Officer

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Forward-looking statements included in this presentation are prepared based on our expectations and projections in light of the information currently available to us, which involve various risks and uncertainties (including, but not limited to, economic trends, market demand and the highly competitive semiconductor industry). Such risks and uncertainties may cause our actual results to be materially different from any future results expressed or implied by these forward-looking statements. We undertake no obligation to update any forward-looking statement included herein.

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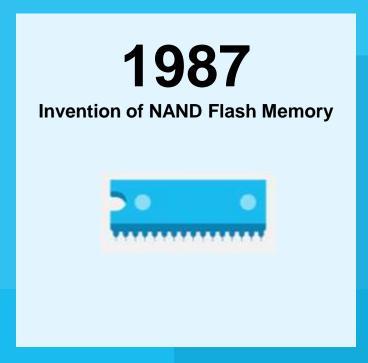
Our Role in the Generative Al Revolution

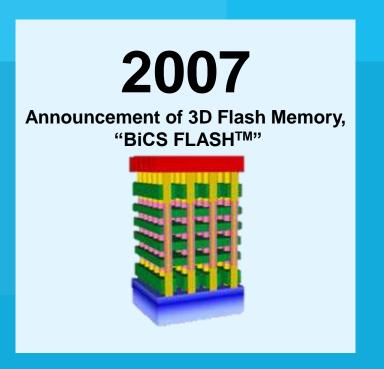
Nobuo Hayasaka

President and CEO



We Have Been Behind Turning Points in Flash Memory





Kioxia's Achievements in FY2024



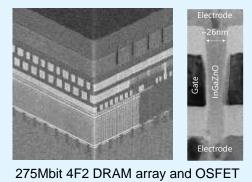


Industry's largest capacity

Sample shipment

Announced the 8th Generation BiCS FLASH™ 2Tb QLC Industry's largest capacity Sample shipment

December 24

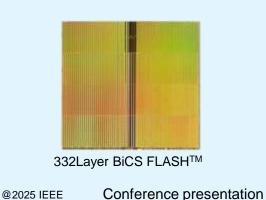


New DRAM technology using oxide semiconductors, etc. (OCTRAM)

@2024 IEEE

Conference presentation

February 25



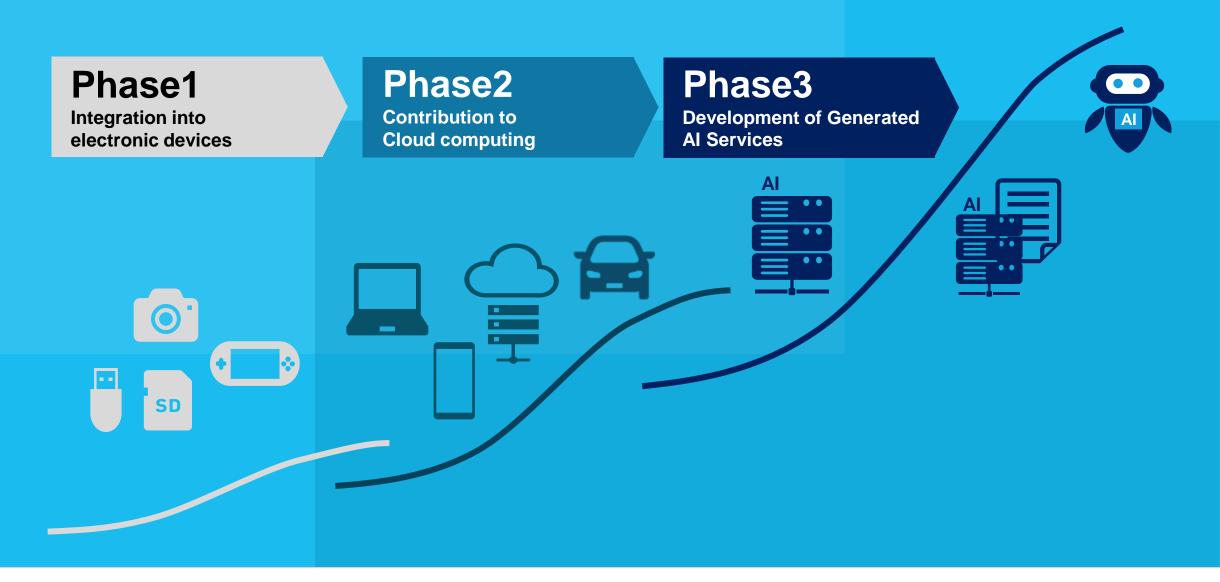
Presentation
on next generation 3D
Flash memory technology
Conference presentation

March 25



Development of high-capacity 122.88 TB enterprise SSD

The Evolving Use Cases of Flash Memory



Data is the Infrastructure of our Daily Lives

Al creates value from data in all industries



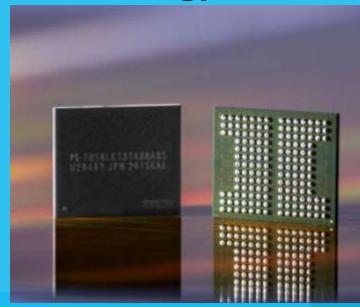


Constant provision of optimal data access for all processes of value creation



How Kioxia Excels

Technology



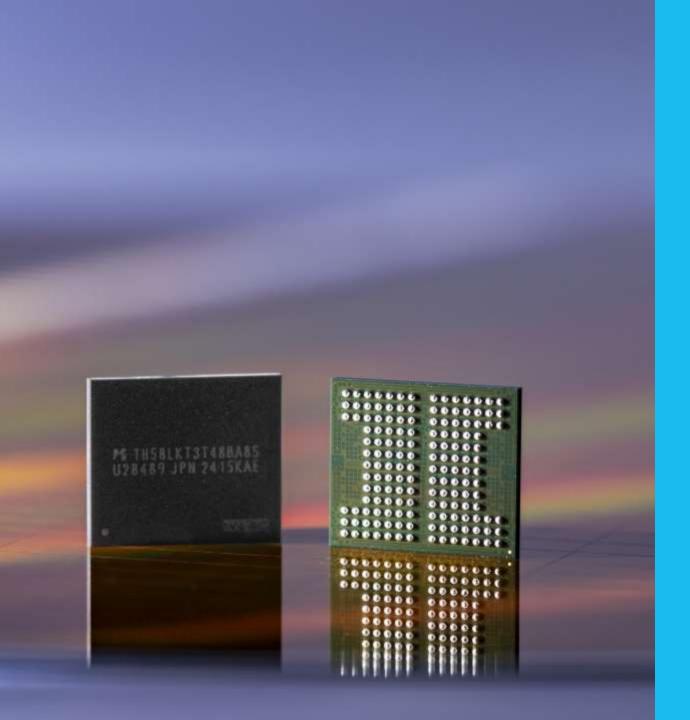
Scale



Partnership



With a stable production foundation and industry-leading technology, we are building the core of the information infrastructure together with our partners.



Technology

A Technology Leader in Flash Memory, Creating World Firsts

Development of competitive memory devices in pursuit of bit density

Development of high-capacity and high-performance SSDs tailored to usage scenarios

Technological proposals with new concepts for SCM and HDD replacement

Scale

Leading Global Flash Memory Production Facilities Leveraging Economies of Scale

Enjoying cost benefits from a 25-year partnership with Sandisk

Smooth mass production through data integration and AI utilization between Yokkaichi and Kitakami plants

Expansion of product lineup with reduced investment through Dual-Axis Strategy





Partnership

Partnerships with Leading Companies in Each Market

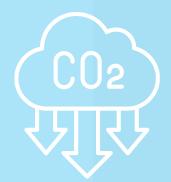
- Business relationships with clients that hold significant market share in the smartphone and PC sectors
- Collaboration with top companies in the server market Expansion of Business with Hyperscalers

Building a robust supply chain with equipment manufacturers, material suppliers, and OSATs

Environmental contributions to society

During Product Manufacturing

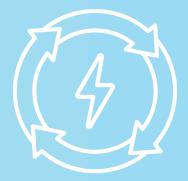
Reduction of Greenhouse Gas Emissions



- Promotion of Energy Conservation and Adoption of Renewable Energy: Targeting procuring 100% of our energy from renewable sources by FY2040
- Net-zero Greenhouse Gas Emissions: Aiming for net-zero Scope 1 greenhouse gas emissions and Scope 2 emissions by FY2050

During Product Use

Improvement in Energy Consumption Efficiency



 Efforts to Reduce Power Consumption per Bit Targeting a 50% Reduction in Energy Consumption from FY2017 to FY2025

Uplifting the world with "memory"

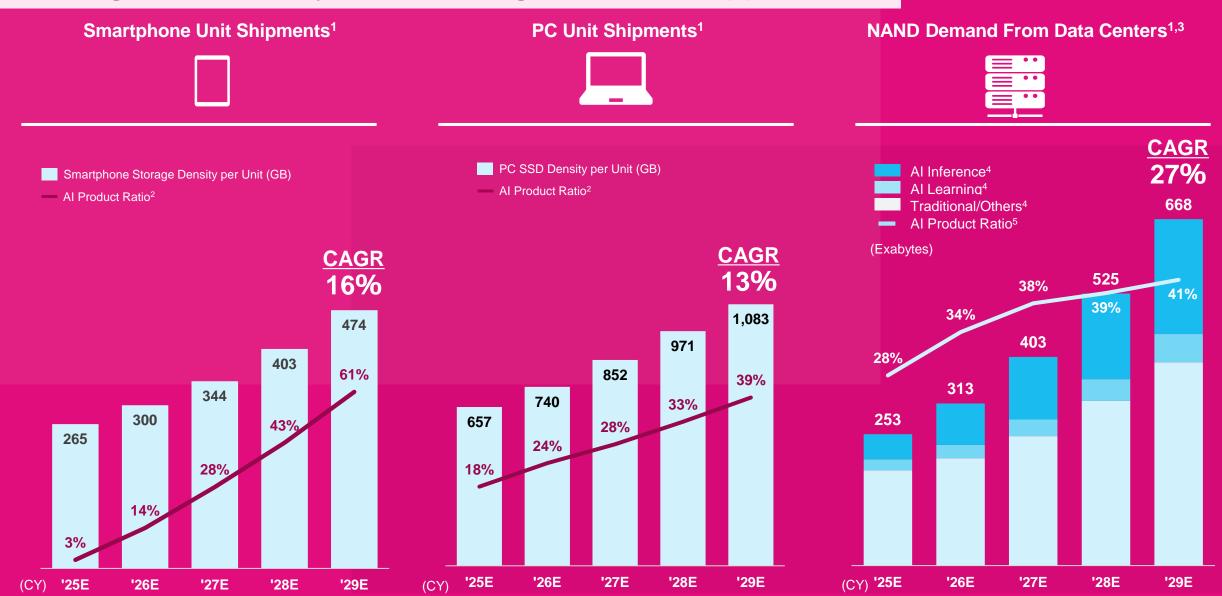


Flash Memory Market Growth and Our Long-Term Financial Model

Junichiro Yaguchi
Managing Executive Officer, CSO



Al Driving Flash Memory Demand Surge Across All Applications





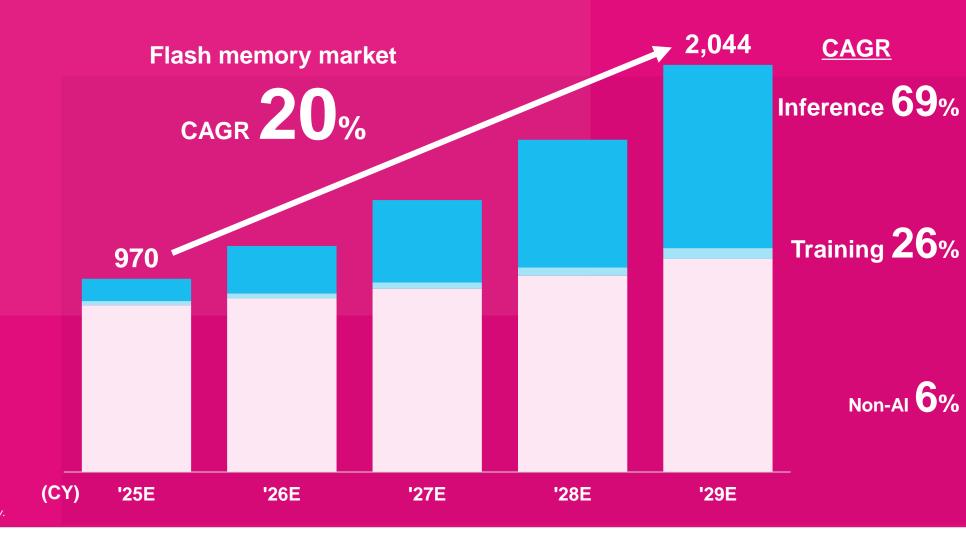
¹ Source – TechInsights "NAND Market Report Q2 2025"

² Based on shipments. Generative AI smartphones / PCs are envisioned as smartphones / PCs equipped with locally stored large language models (LLMs) and dedicated logic ASICs for AI processing

³ Demand forecast is based on NAND consumption (server sales, datacenter buildouts, etc.), not NAND/SSD sales by the memory suppliers to the datacenter operators and traditional enterprise OEMs. ⁴ Refer to footnote 3 on page 17 ⁵ Based on bit demand

Flash Memory Market Driven by Generative Al^{1,2}

Bit Demand Related to AI (EB)3,4



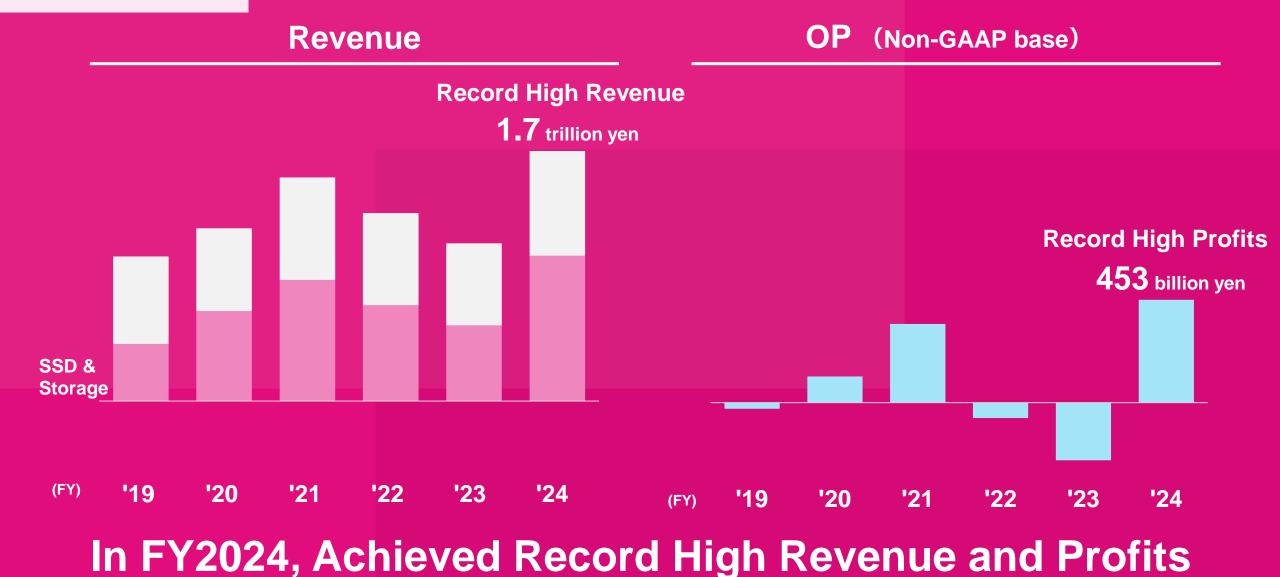
¹ Source – TechInsights Inc. "NAND Market Report Q2 2025"
² Demand forecast is based on NAND consumption (server sales, datacenter buildouts, etc.), not NAND/SSD sales by the memory suppliers to the datacenter operators and traditional enterprise OEMs.

⁴ Generative AI smartphones/PCs are envisioned as devices equipped with locally stored large language models (LLMs) and dedicated logic ASICs for AI processing. Since no such devices exist in the market yet, the modeled forecasts are based on assumptions and estimations and are subject to high uncertainty.



³ Al inference / training SSD refers to any SSD primarily used to support Al inference / training workloads (either server- or storage-attached)

FY2024 Results



Resource allocation for growth



Ratio to Revenue of

20% or below

R&D



Ratio to Revenue of

8-9%

Recruitment



Approx.

700 People pe

Long-Term Financial Model

Growth



In Line with Expected NAND Market Growth¹

20%

***CY25-29**

Profitability



Annual cost reduction per GB

Operating margin²

mid-10% range

mid-20% range

Financial Stability



Net Debt/EBITDA³

Medium term <1.0

Long term Net cash position

*See DISCLAIMER on page 3 of this document.

Capital Allocation Policy

Aim to enhance financial soundness for sustainable growth through the cycle

Cash Generation OP Margin² | Mid-20%

Long-term financial model

Tax Shield from NOL

JPY 276.5Bn1

Working Capital Management

Growth Investments

Capex | ~20% of Revenue

Disciplined approach

R&D | 8-9% of Revenue

Enhancing technological competitiveness

Positive FCF Generation Through the Cycle

Capital Allocation (long-term)

Debt Repayment

Net Debt/EBITDA³ < 1.0x (mid-term)

Net cash position (long-term)

Dividend / Share Repurchase

Prioritize achieving a net cash position

¹ After-tax amount of tax loss carryforwards (NOL) as-of March 31, 2024 ² Non-GAAP basis ³ LTM Non-GAAP basis



Storage Strategy for Generative Al

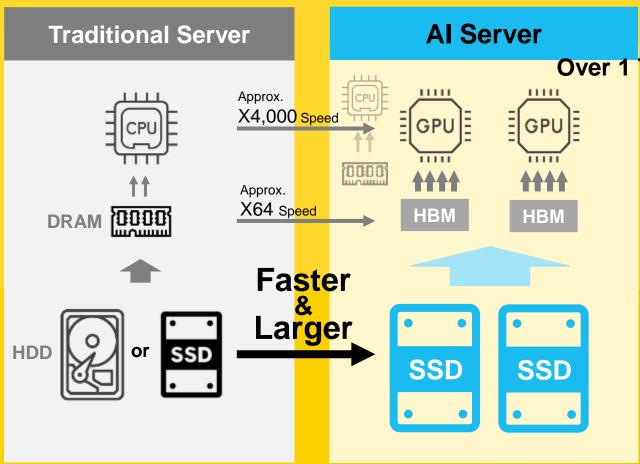
Masashi Yokotsuka

Managing Executive officer, Vice president of SSD div.



The importance of SSD in AI systems

Al servers require large-capacity and high-speed data transfer.



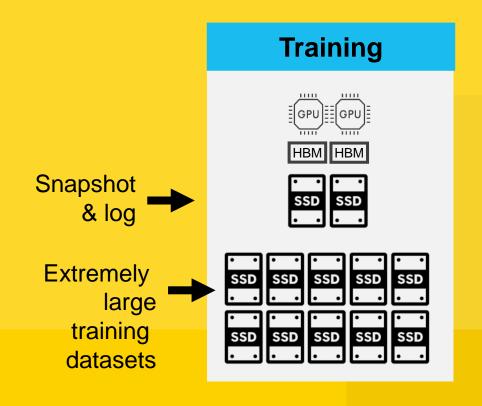
Over 1 Trillion parameters

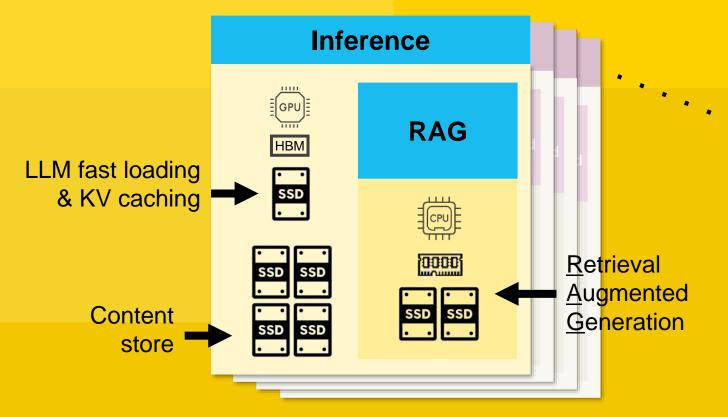
	Performance	Power	Capacity
НВМ	VVVV	VV	V
DRAM	V V V	V V	V V
SSD	V V	VVVV	VVV
HDD	V	V V	V V V V

From the perspectives of capacity, performance, and power efficiency, SSD is the best choice.

SSD Demand Expected to be Driven by Al Inference

Inference systems and inference servers will be needed for as many services and users as there are.





What is required of SSDs:

- Higher-performance
- Larger Capacity
- Better Power Efficiency

Kioxia's SSD lineups for AI systems

Performance SSD

equipped with an in-house controller supporting PCle® 5.0

Best-in-class PCIe® 5.0 SSD

CM9



DC optimized PCIe® 5.0 SSD



2025/E

Capacity SSD

equipped with BiCS FLASH™ Generation 8, 2Tb QLC monolithic chip



Mission Critical Ready QLC SSD

Single-Port / Dual-Port 2.5-inch : 122.88 TB*

* 122.88TB is capacity of current product. Future capacity planned to be larger.

Our strength

Combining Flash technology with enterprise experience to deliver reliable SSDs to customers.

Flash Memory Technology Leadership



Higher Interface Speed



Read Latency



generation 8

Write Power Efficiency



Bit Density

In-house unified Ent. & DC R&D platform



SSD HW

PCle5.0
DC Form factor
PLP function



SSD FW

Powerful ECC
Advanced Security
Customization



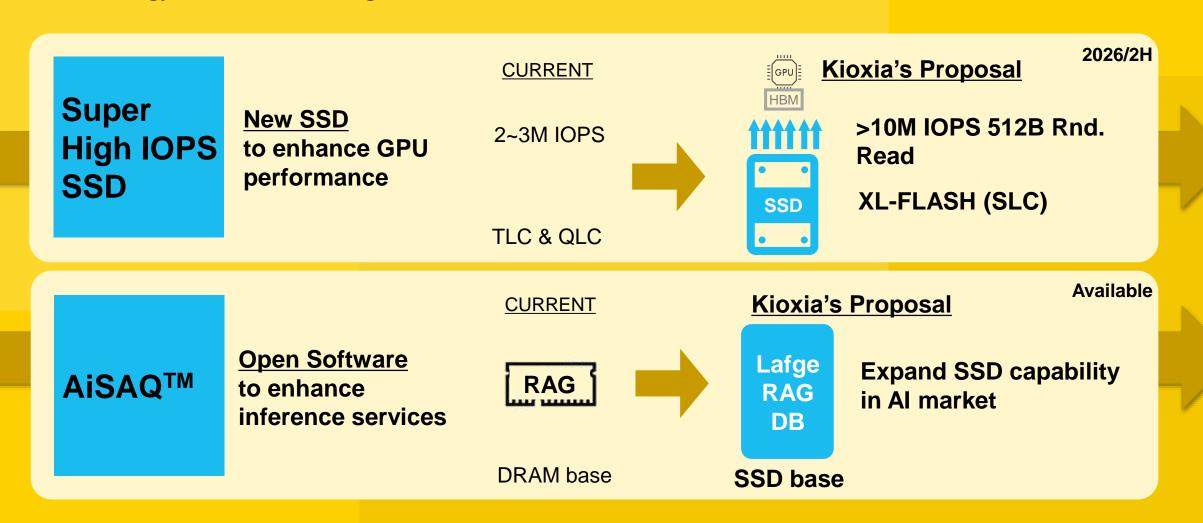
15yr+ Engagement In Enterprise

Lead new tech trends with key customers Faster and lower-latency

Larger and more power-efficient

Our proposal

As experts in Flash Memory and SSD, Kioxia contributes to the growth of Al systems and the market by collaborating with technology leaders and leading customers.



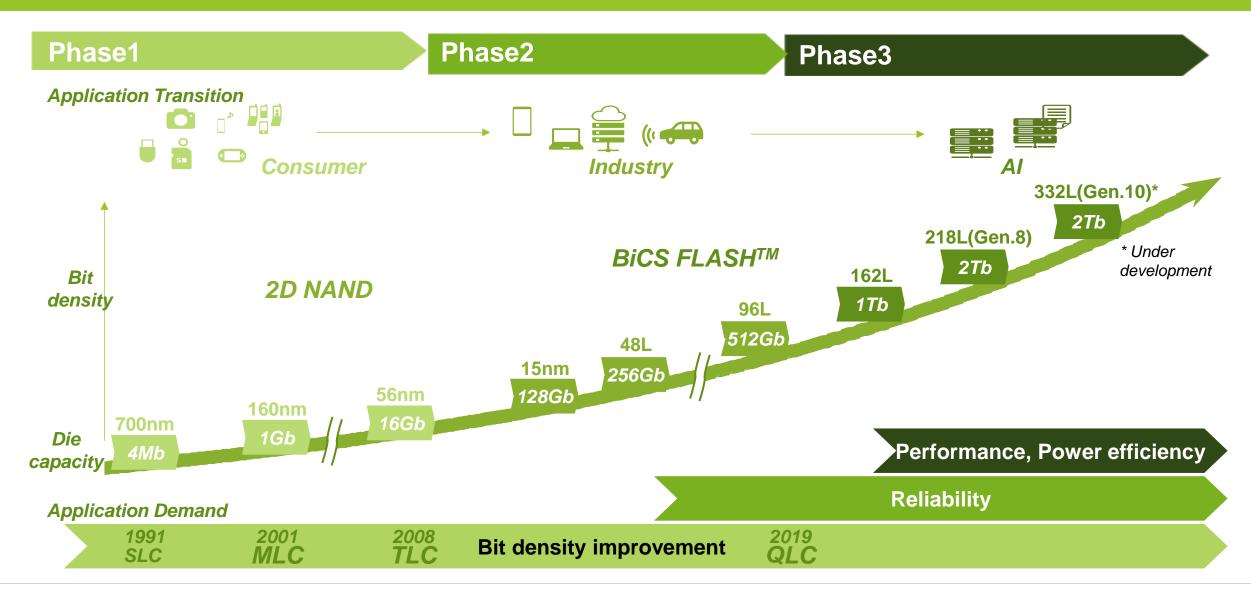
Our Leadership in Flash Memory Technology

Hiroo Oota

Executive Vice President and Executive Officer

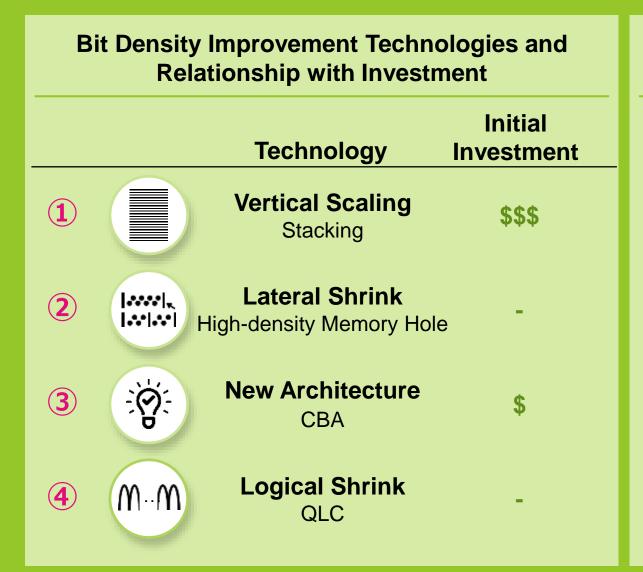


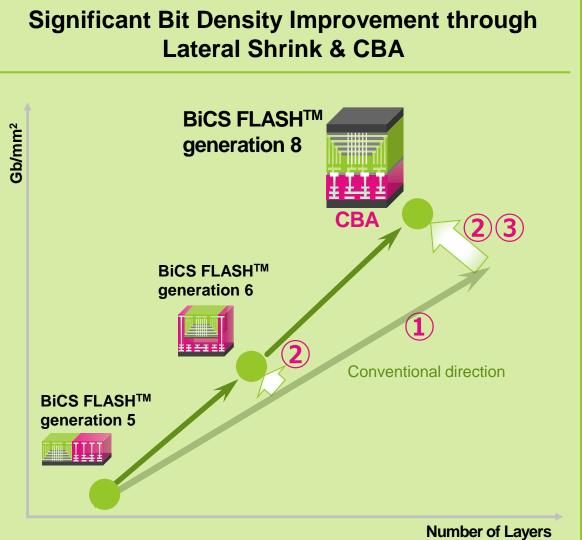
Kioxia is the Pioneer in Flash Memory





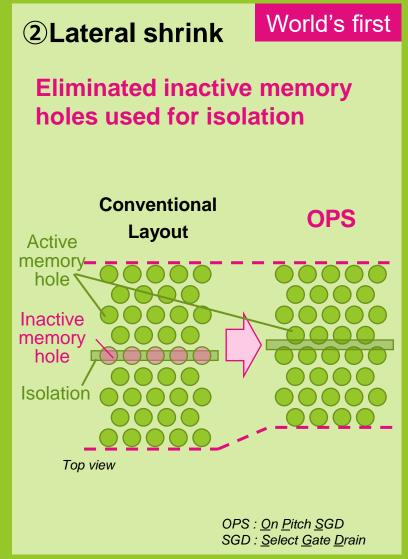
Technological Leadership Enables Highest Bit Density

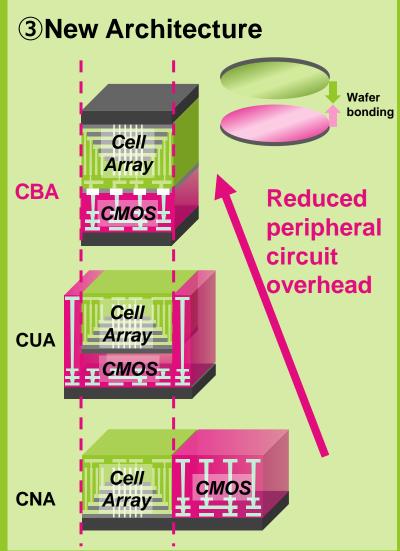


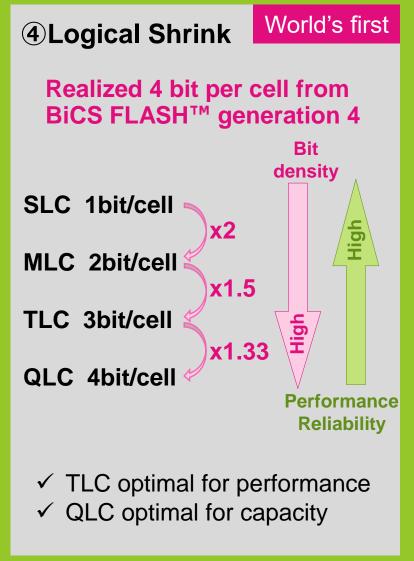




Key Technologies Enabling Highest Bit Density





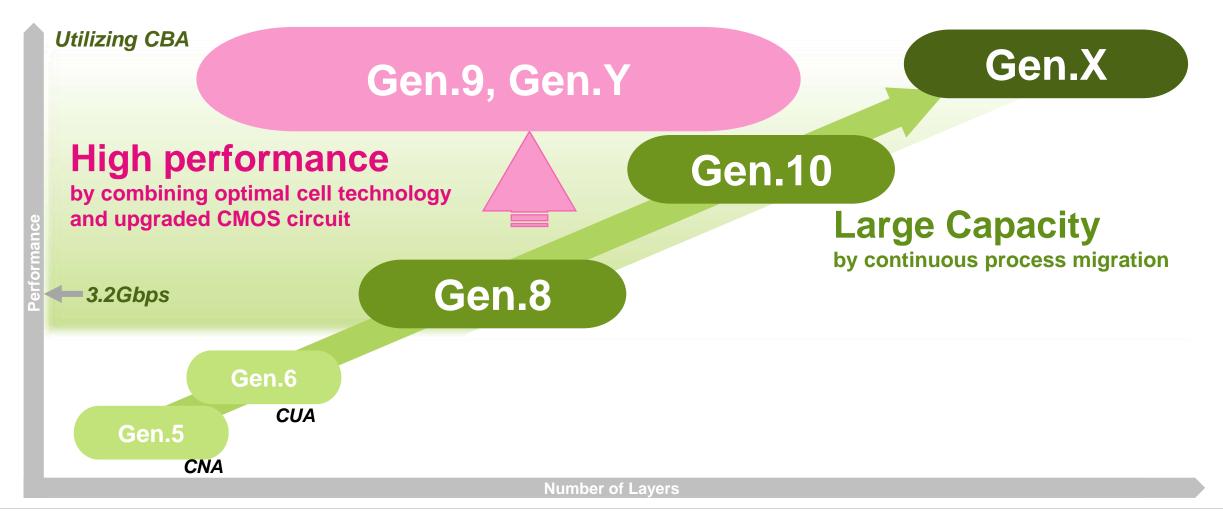




CNA: <u>C</u>MOS <u>N</u>ext to <u>A</u>rray CUA: <u>C</u>MOS <u>U</u>nder <u>A</u>rray CBA: CMOS directly Bonded to Array

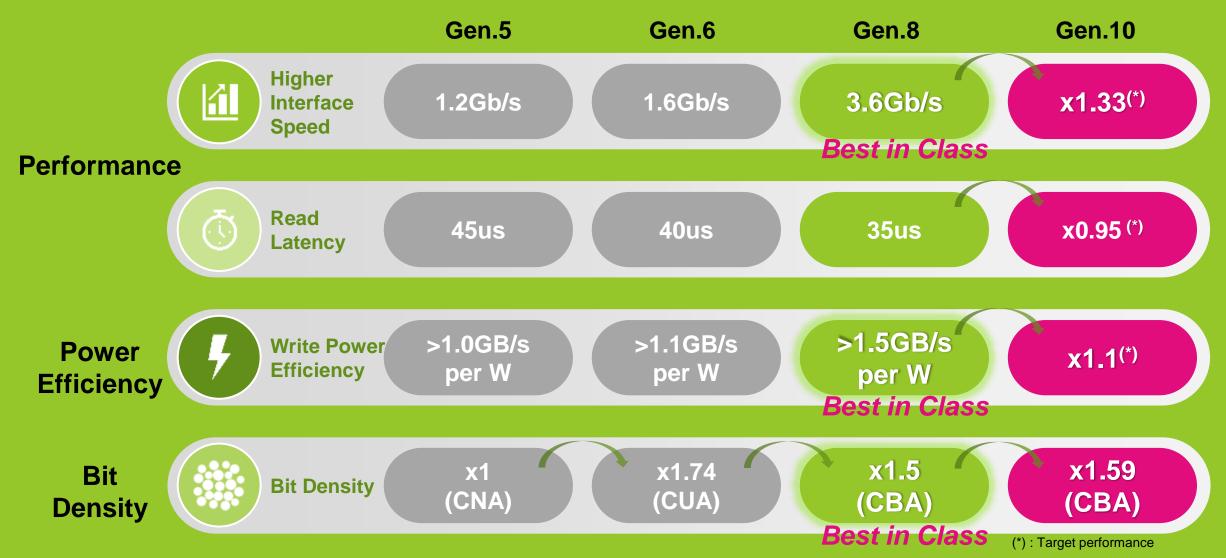
BiCS FLASH™ Road Map

Dual-Axis Strategy enables optimal CAPEX spending and maximizes GB output and offers high performance flash memory for wide variety of applications





Performance & Bit Density Improvement Across the BiCS FLASH™ Generations

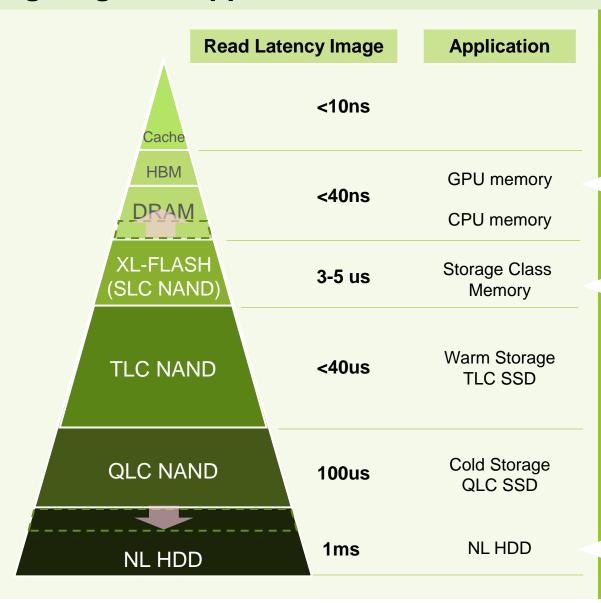


Gen.9: Performance improvements are similar to Gen.10



CNA: <u>C</u>MOS <u>N</u>ext to <u>A</u>rray CUA: <u>C</u>MOS <u>U</u>nder <u>A</u>rray CBA: CMOS directly Bonded to Array

Targeting New Applications with New Memory Solutions



OCTRAM (Research & Development Phase)

- 4F2 layout
- Targeting AI and post-5G system memory requiring low power consumption

OCTRAM:
Oxide-Semiconductor
Channel Transistor
DRAM

XL-FLASH for AI Era (Currently in Production)

- Roughly 10 times faster and durable than typical TLC NAND
- Targeting AI applications such as:
- ✓ Super High IOPS SSD (Sample in 2026/2H)
- ✓ CXL attached XL-FLASH (Sample in 2026/2H)



Large Capacity QLC (Currently in Production)

- QLC SSDs are in data centers today
- Targeting NL HDD replacement with cost oriented QLC NAND.
- ✓ Targeting development of large capacity QLC SSDs that can compete with NL HDD in terms of TCO (Total Cost of Ownership)



Manufacturing and Capital Investment Strategy

Tomoharu Watanabe

Executive Vice President and Executive Officer



Kioxia's Operational Excellence

High Yield Rate and Productivity Achieved in Yokkaichi & Kitakami

Main synergy









Quick action by Al



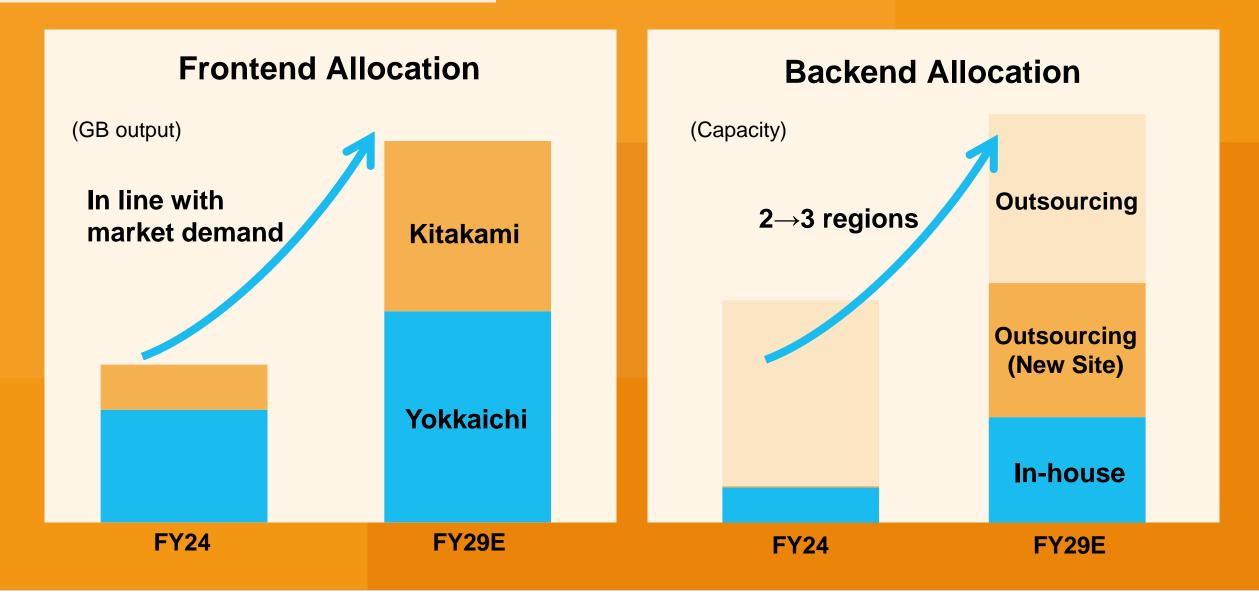
Yokkaichi Plant 7 fabs and memory R&D center



Kitakami Plant

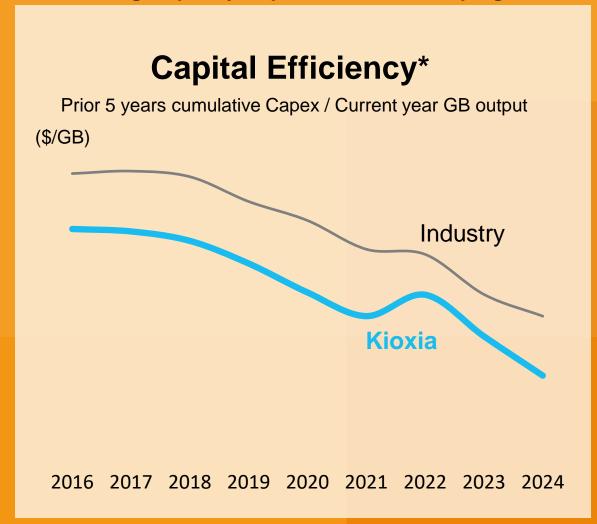
Kitakami Plant 2 fabs

Manufacturing Allocation Strategy



Effective Capex Control

Manufacturing Capacity Expansion While Keeping Financial Discipline

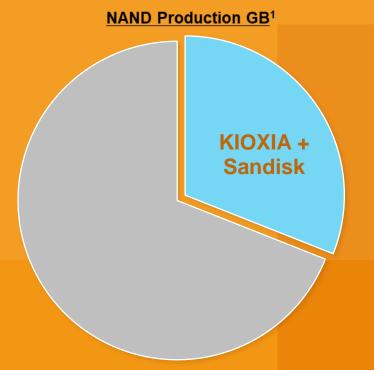


- ✓ Investment in mass production for future growth
- ✓ R&D investment to keep technology leadership

Keep Leading Position in Flash Memory Production

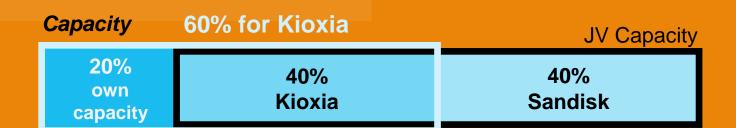
Manufacturing Capacity Expansion to Keep Leading Position

Top Class Flash Memory Player



Kioxia + Sandisk Approx.30%

- ✓ Kioxia owns the facilities
 and controls 100% of manufacturing operation
- ✓ Majority of engineering resources
- √ 60% of total capacity



Commitment to supply chain risk management

Kioxia assesses and stays aware of its supply chain risks to minimize its business risks

BCP management based on strong partnership with suppliers







Key Message for Today

Key Message for Today

Market

With the widespread adoption of generative AI, the storage market is expected to continue expanding, particularly driven by inference workloads.

Value Proposition

Maintaining technology leadership through innovation By developing competitive devices, we address the increasingly diverse storage needs—including high performance, large capacity, and low power consumption

Profitability

Improving profitability and strengthening our financial foundation through disciplined capital investment and strategic resource allocation

We aim to enhance our corporate value by contributing to society through providing a foundation for data utilization and pursuing sustainable growth

KIOXIA