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SAMSUNG MEMORY

2018

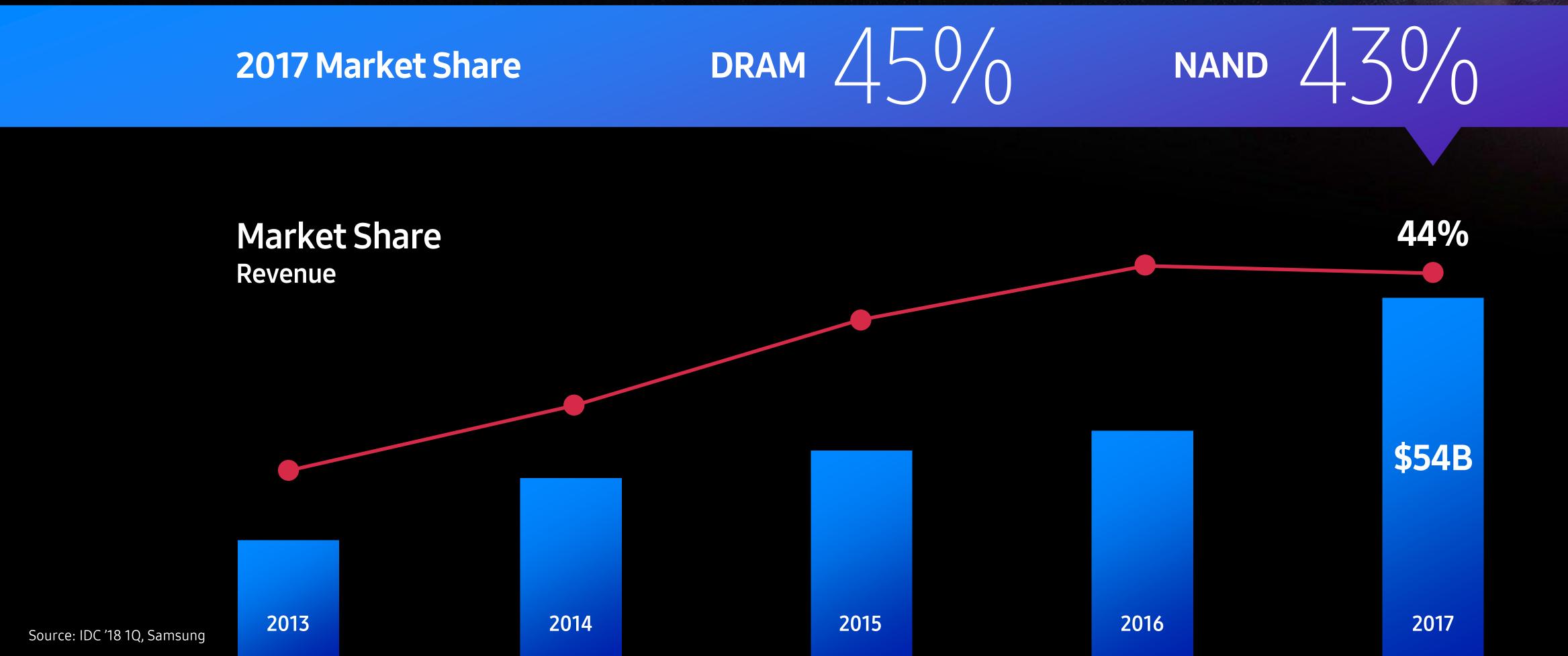
Investor Presentation

CONTENTS

BUSINESS UPDATE
 MEMORY MARKET OPPORTUNITIES
 SAMSUNG STRATEGY

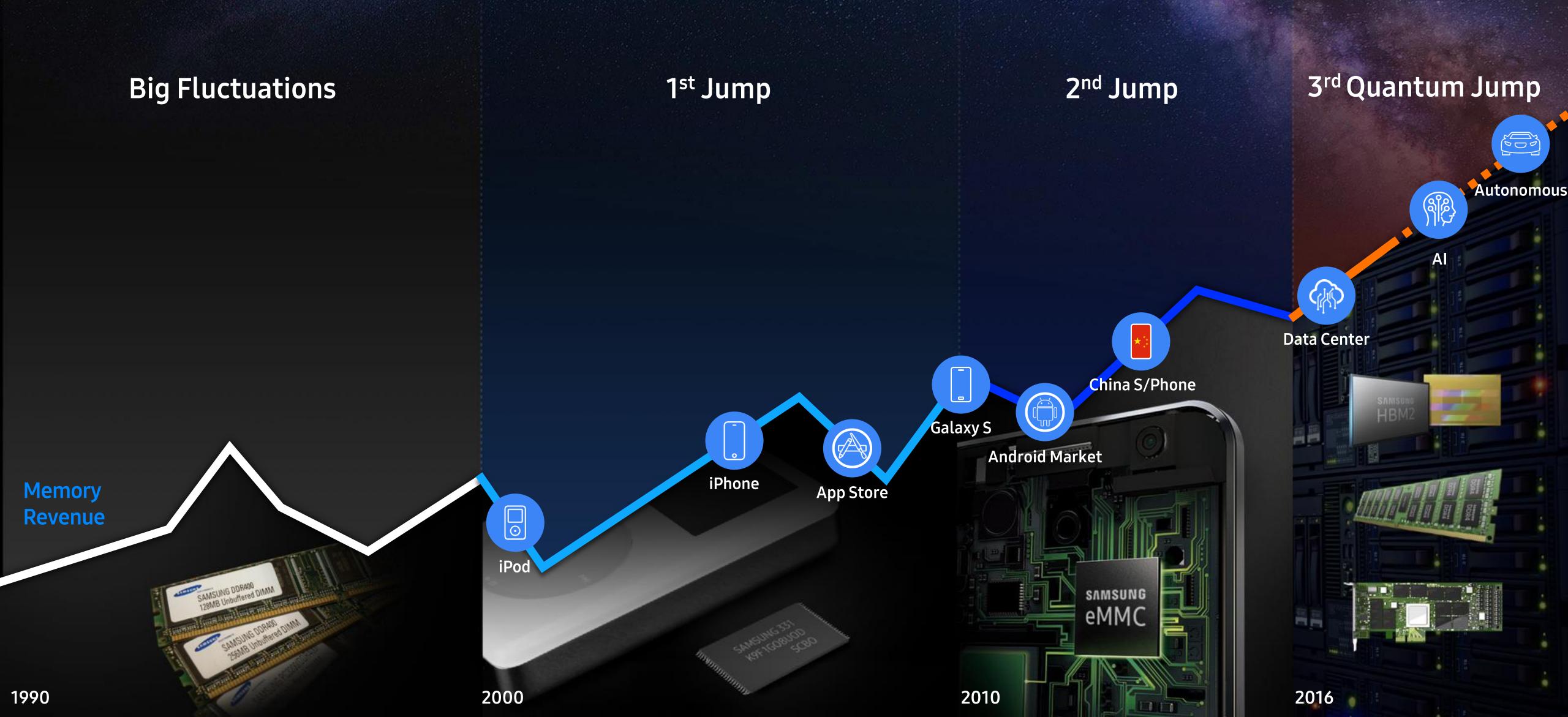
SAMSUNG MEMORY BUSINESS REVIEW

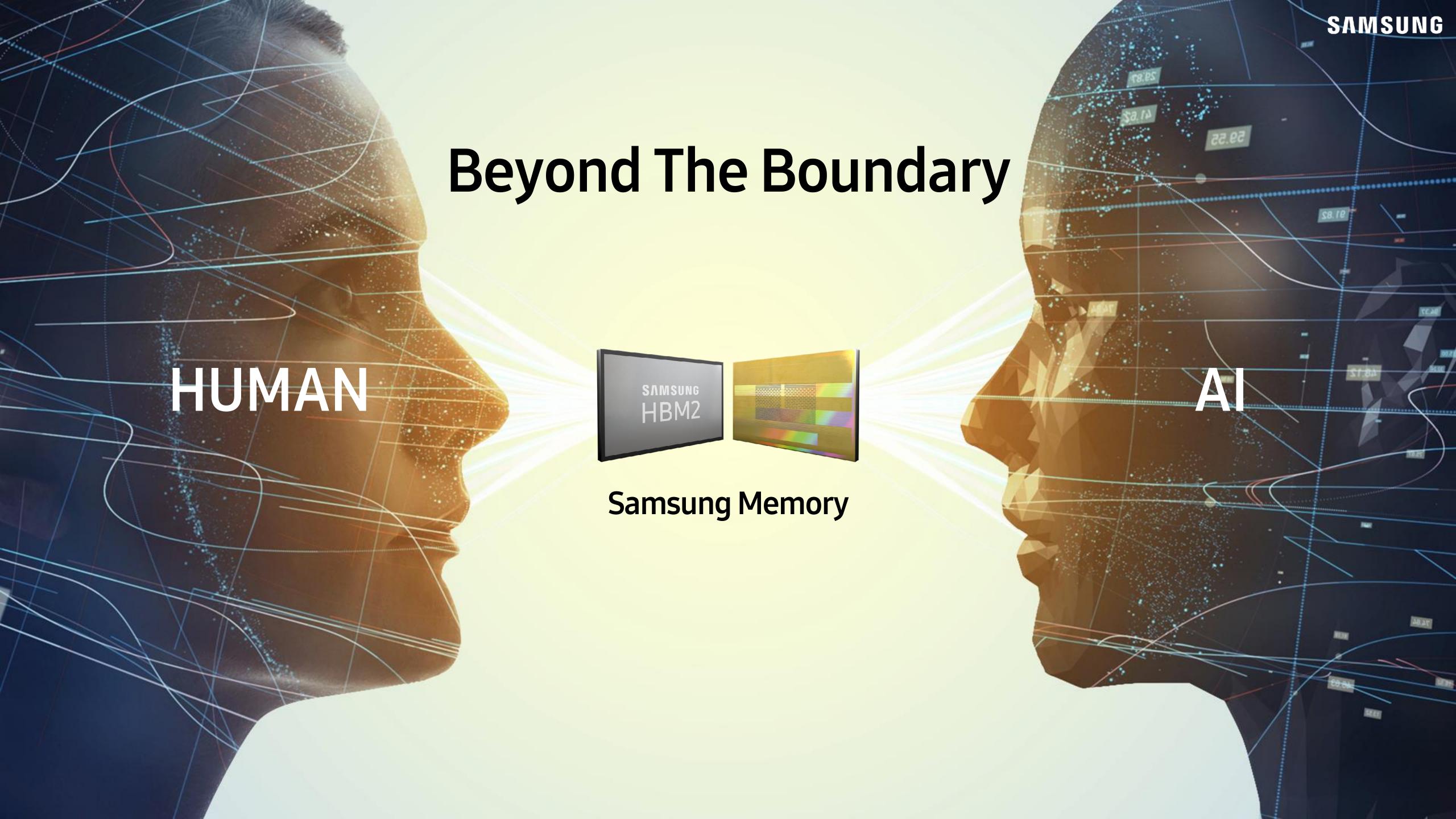
#1 in Memory Worldwide Since 1993, Well Balanced DRAM/NAND Portfolio



MEMORY BIZ. PARADIGM SHIFT LED BY SAMSUNG

Samsung is Powering the Technologies that bring Innovation to Lifestyle





CONTENTS

BUSINESS UPDATE

• MEMORY MARKET OPPORTUNITIES

SAMSUNG STRATEGY



SPREAD-OUT OF PUBLIC CLOUD

Explosive Growth of Unstructured Data

1st WAVE



Cloud Service Providers

2nd WAVE



.Com & Forbes Top100

3rd WAVE

5G

Telco Companies

THE FLOOD OF DATA

4TH WAVE



Automotive Companies

2016 2020

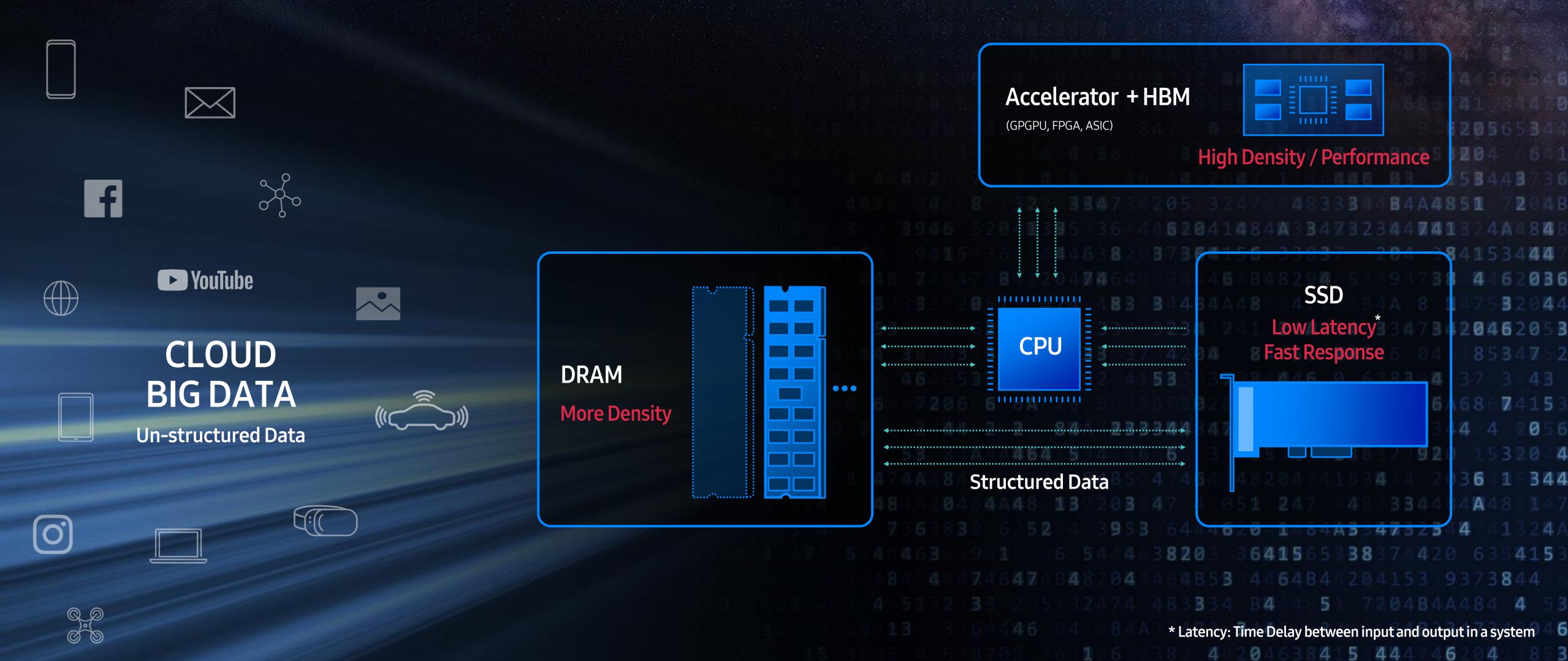
SMART CITY & AUTONOMOUS CAR FUELED BY 5G NETWORK

Huge Amounts of Data Generated by Hyper-connected Devices



MARKET OPPORTUNITY IN BIG DATA ANALYTICS

Demand Increase for High Density & Performance Memory to Enhance Computing Power



CONTINUOUS GROWTH OF MEMORY DEMAND

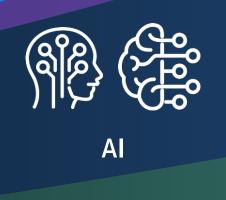
Memory Growth led by Server & Mobile Applications based on Big Data Ecosystem



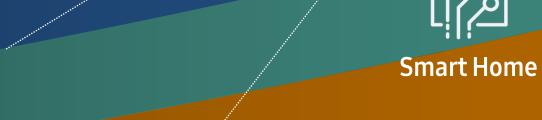
- Automotive
- Server
- Cons. & Gfx
- Mobile
- P



2018









Big Data Analytics / ML

Public Cloud Service



Network Equipment



2017





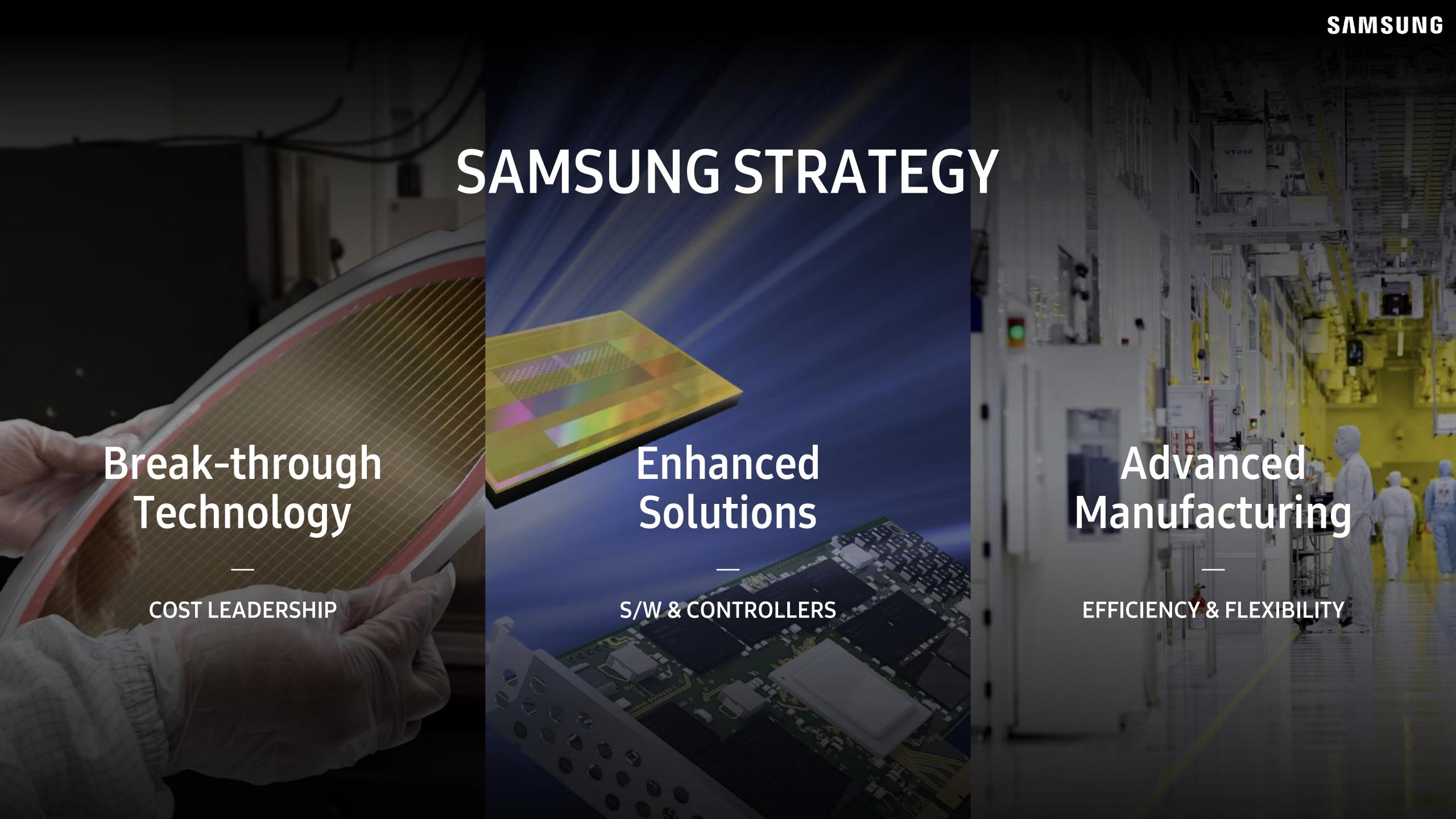


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BUSINESS UPDATE

MEMORY MARKET OPPORTUNITIES

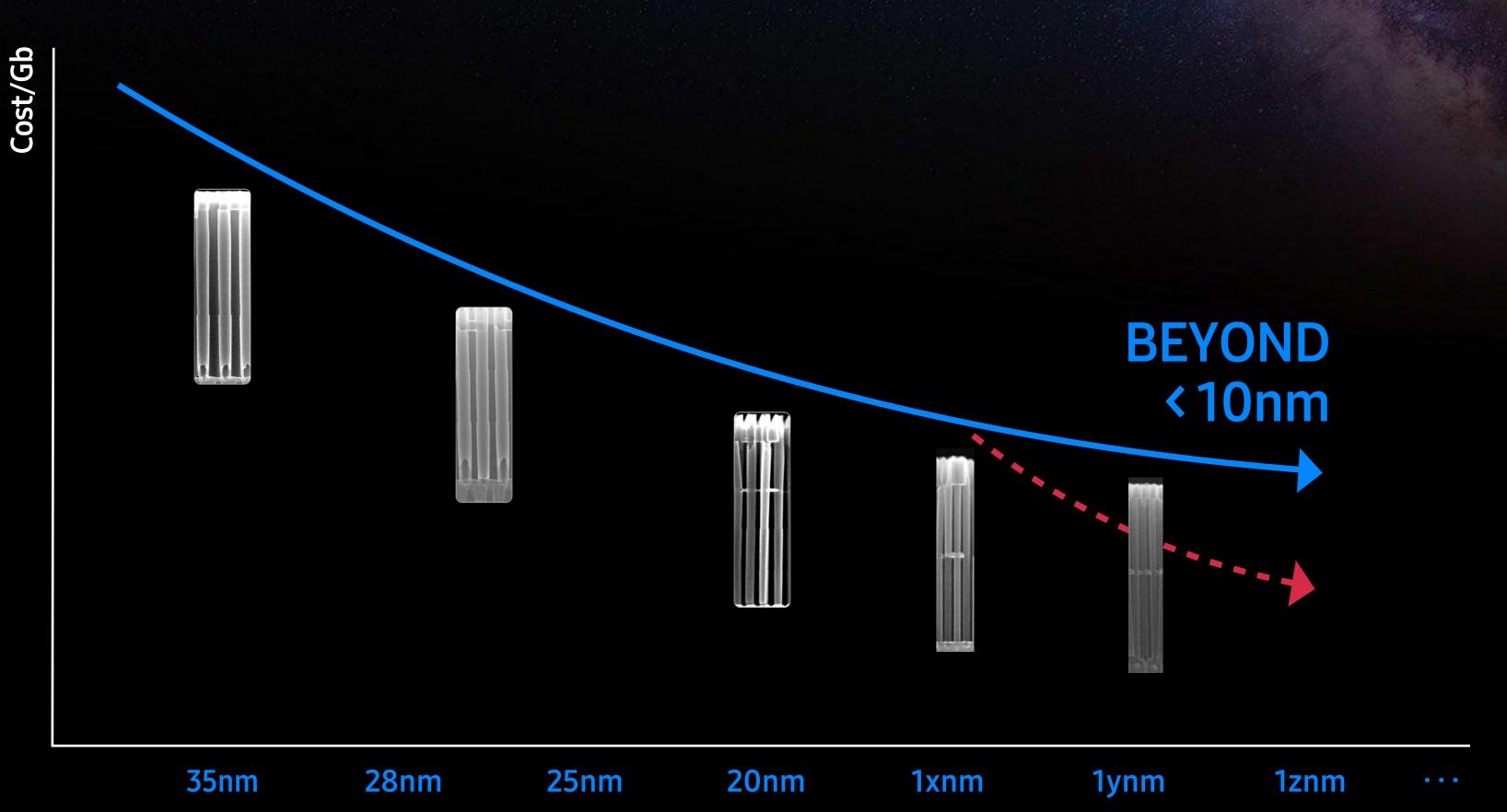
SAMSUNG STRATEGY

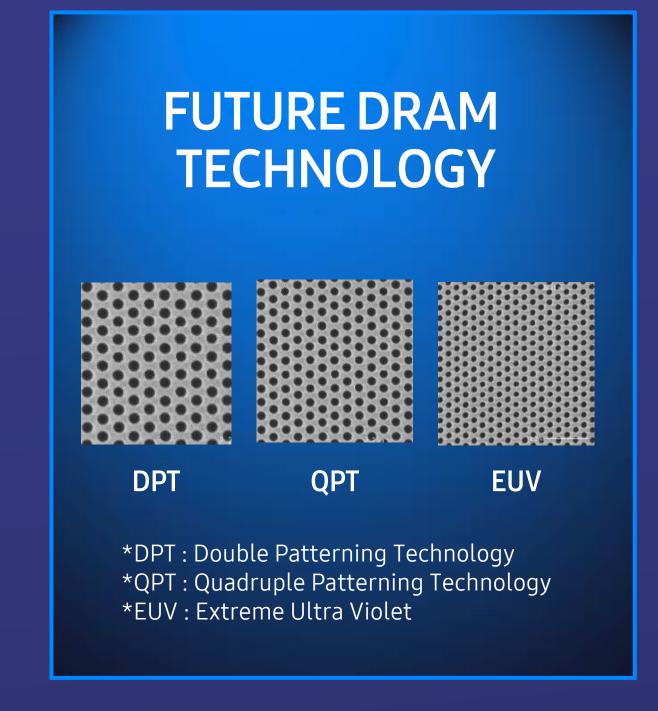


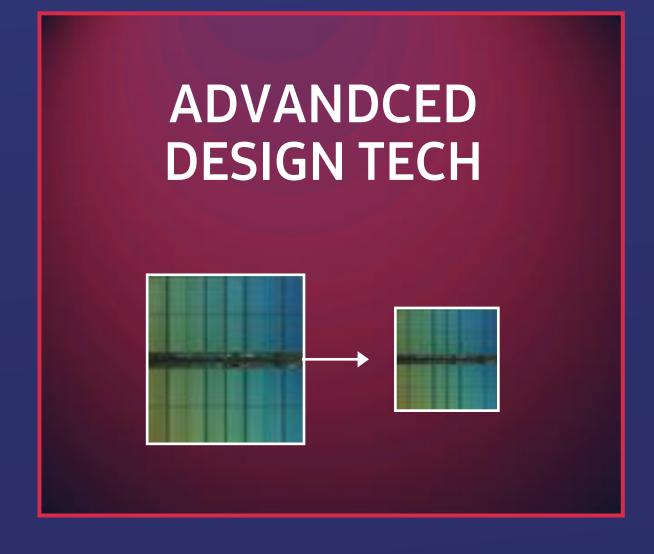
CONTINUOUS TECHNOLOGY SCALING

Thru Technology Evolution

DRAM



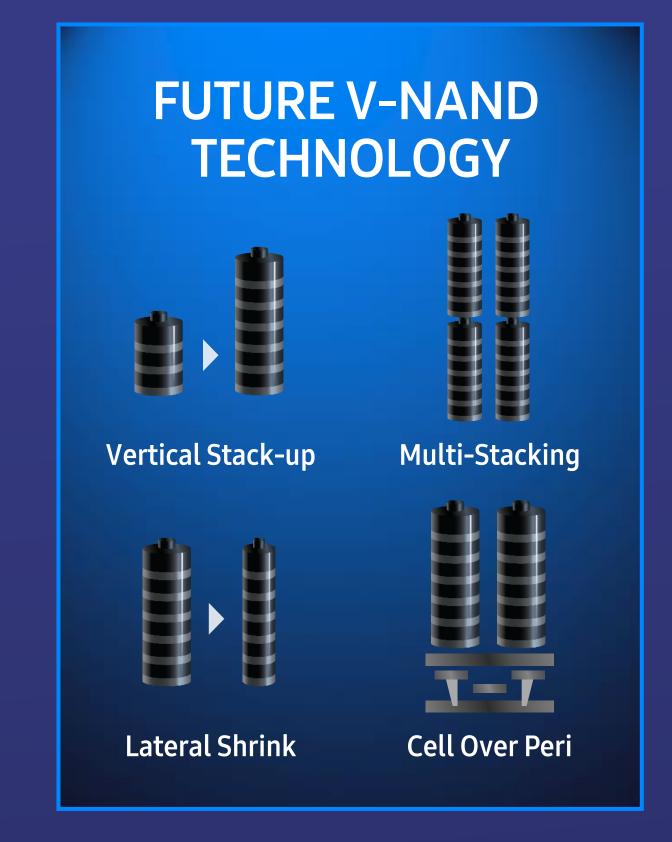


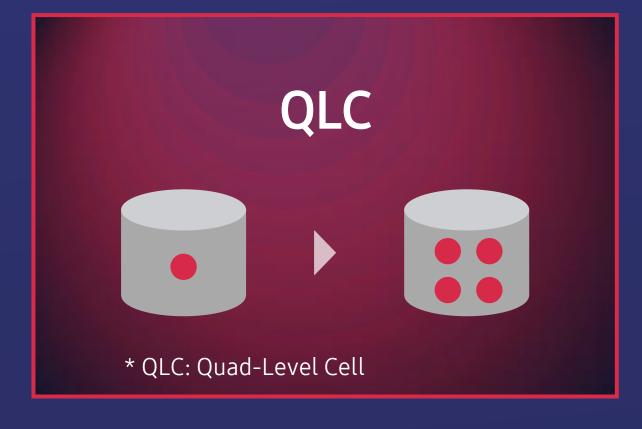


PUSHING THE LIMITS OF V-NAND

Thru Innovative Layer Stacking Technology

NAND Cost/Gb **BEYOND 200 LAYERS** Planer **21nm** 19nm **16nm 14nm** V-NAND V32 **V64** V9x **V48**





UNIQUE CAPABILITIES FOR DIFFERENTIATED SOLUTIONS

Integrating Key Components to Deliver Value-added Solutions

ADVANCED PROCESS TECHNOLOGY

Wafer / Chip

ADVANCED PACKAGING TECHNOLOGY

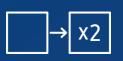
Stacking / TSV



Software & Logic (Controller)



Smaller



Higher Density



Less Power Consumption



Faster



Thinner



Smaller



No Performance Loss



Customized



Expandable



Smarter



Secure



TSV RDIMM, Z-SSD & NF1

Low Latency*

High Capacity

Stable QoS

LPDDR5

Higher Speed

Lower Power Consumption

Smaller Package

* Latency: Time Delay between input and output in a system

Enhanced Solutions SAMSUNG

SAMSUNG SOLUTIONS FOR ARTIFICIAL INTELLIGENCE

Superlative Performance and High Reliability Using Less Energy



8GB HBM2*

Fastest Performance

Energy Efficiency

32TB SAS SSD, 16TB NVMe SSD

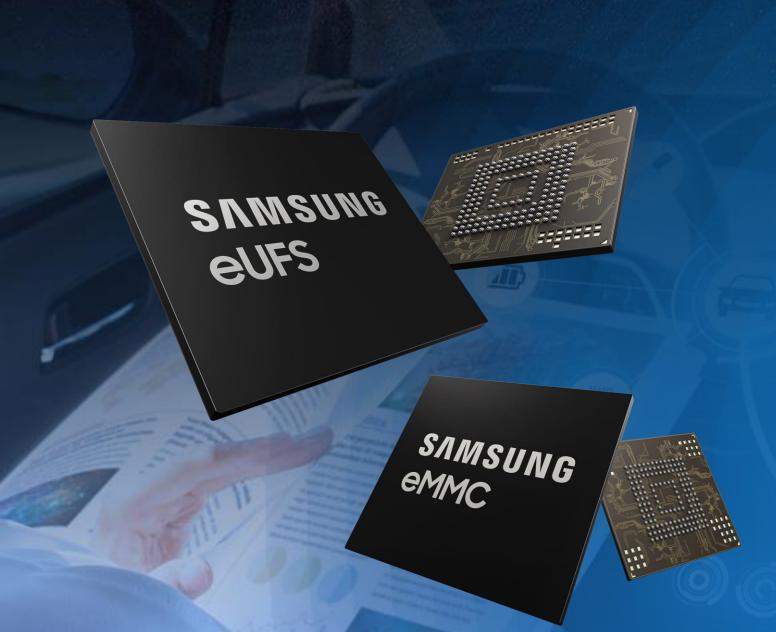
Largest Density

Higher Reliability

Unparalleled Performance

SAMSUNG SOLUTIONS FOR AUTOMOTIVE INDUSTRY

Advanced Total Memory Solution for Automotive Applications & Connected Car



Dedicated Support for automotive

Diverse Memory Line-ups

Dedicated Manufacturing Line & Organization





CONNECTED



AUTOMATED

SAMSUNG DDR3



Automotive eStorage

High Density

Temperature Notification

Data Refresh

Automotive DRAM

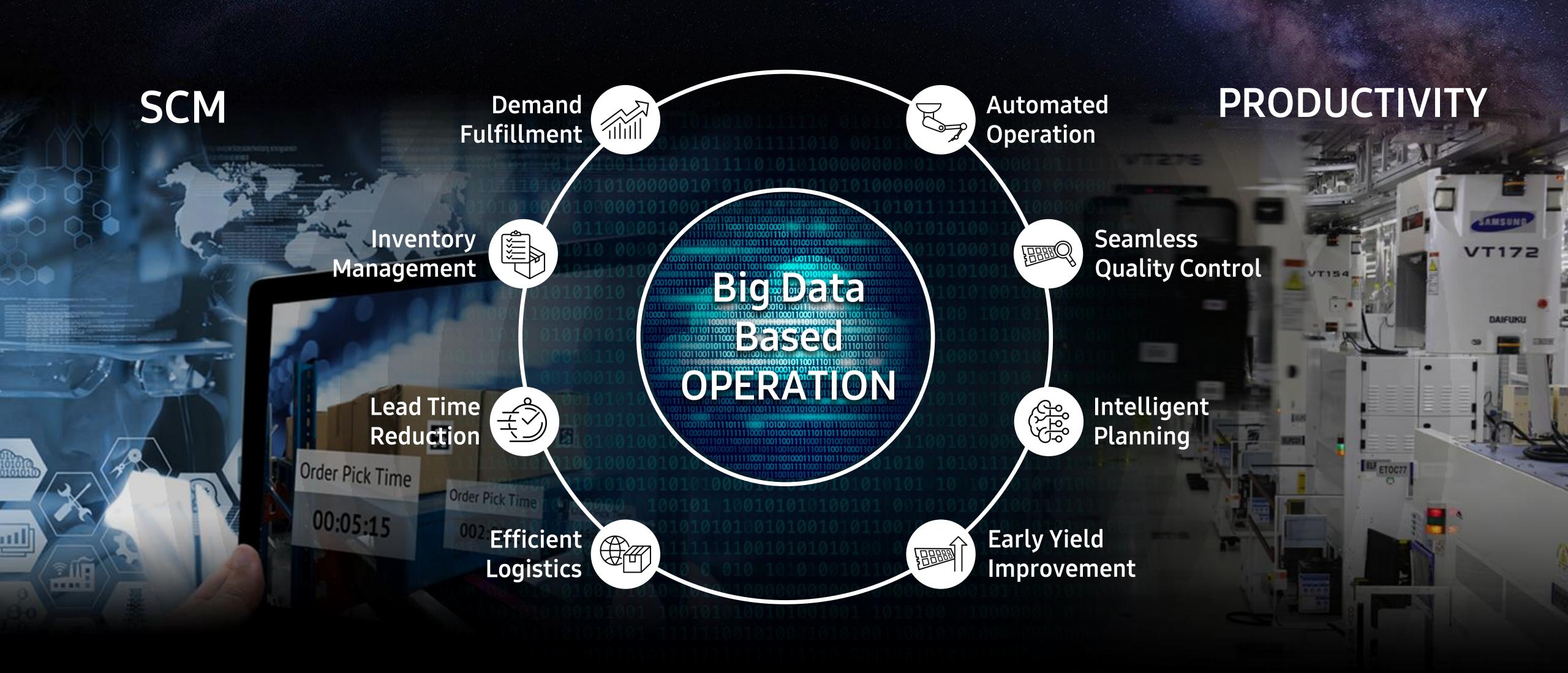
High Bandwidth

Lower Power Consumption

Higher Reliability

EVOLUTION TO SMARTER FACTORY

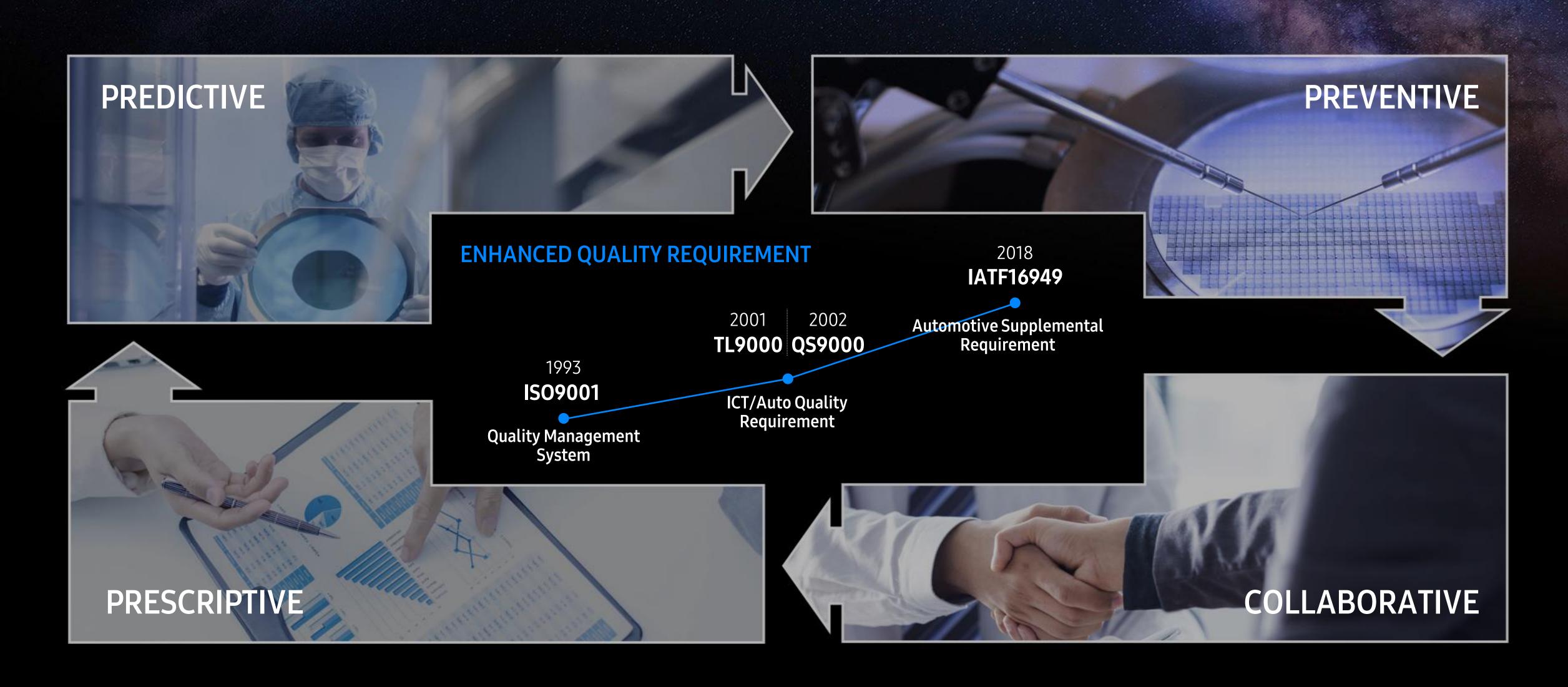
Customer Value Improvement through High Productivity and Enhanced SCM*



Advanced Manufacturing SAMSUNG

QUALITY BY DESIGN

Meet the Industry Standard and Expectation of AI & Automotive Customers



Placing Memory at the Forefront of Future Innovation and Creative IT Life

Technology

Leading Technological Breakthroughs



Supporting Customers' Future Innovation

Employees

Fostering Employees'
Creativity

Society

Enriching a New Way of Digital Life