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SAMSUNG MEMORY

Jun, 2019

Investor Presentation

CONTENTS

BUSINESS UPDATE
 MEMORY MARKET OPPORTUNITIES
 SAMSUNG STRATEGY

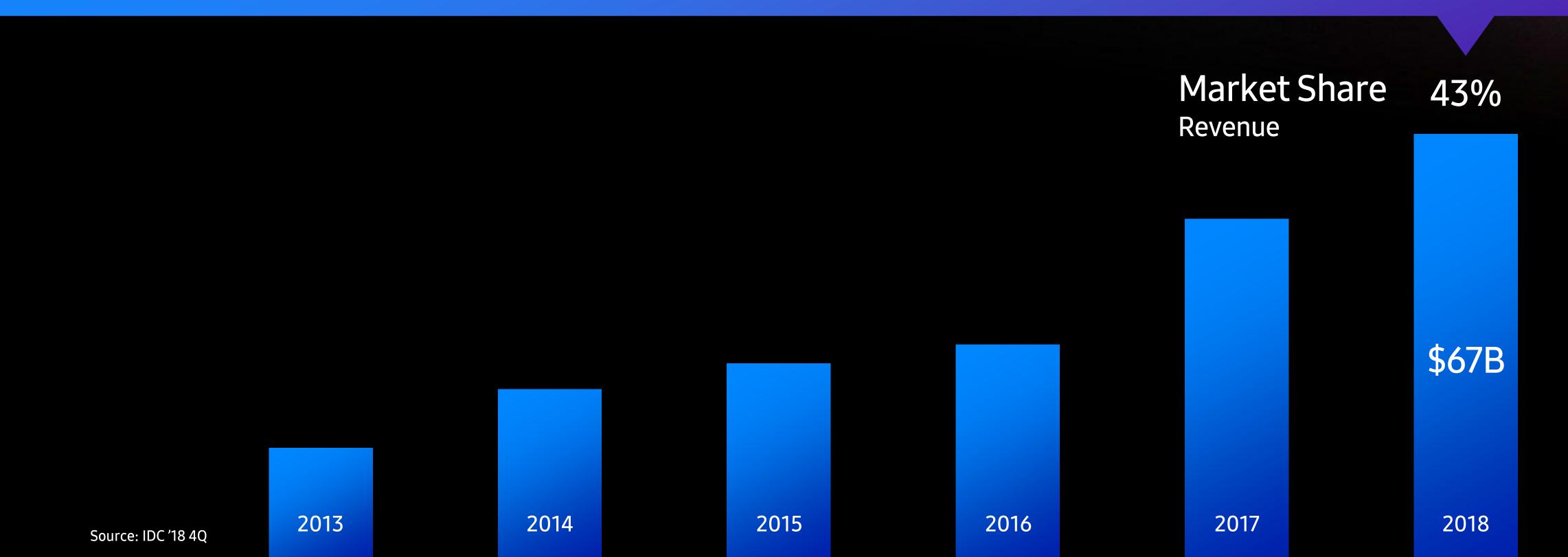
SAMSUNG MEMORY BUSINESS REVIEW

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

2018 Market Share

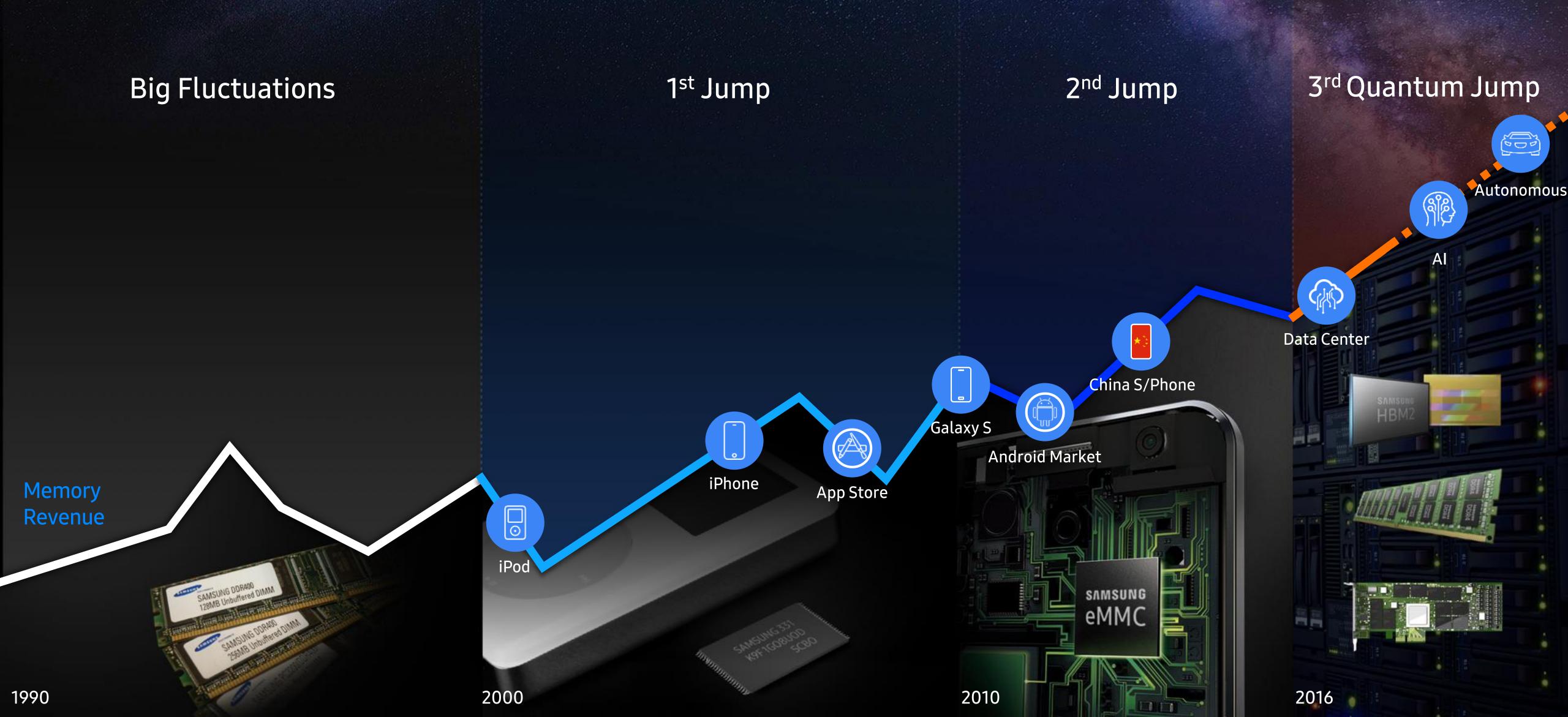
DRAM 4500

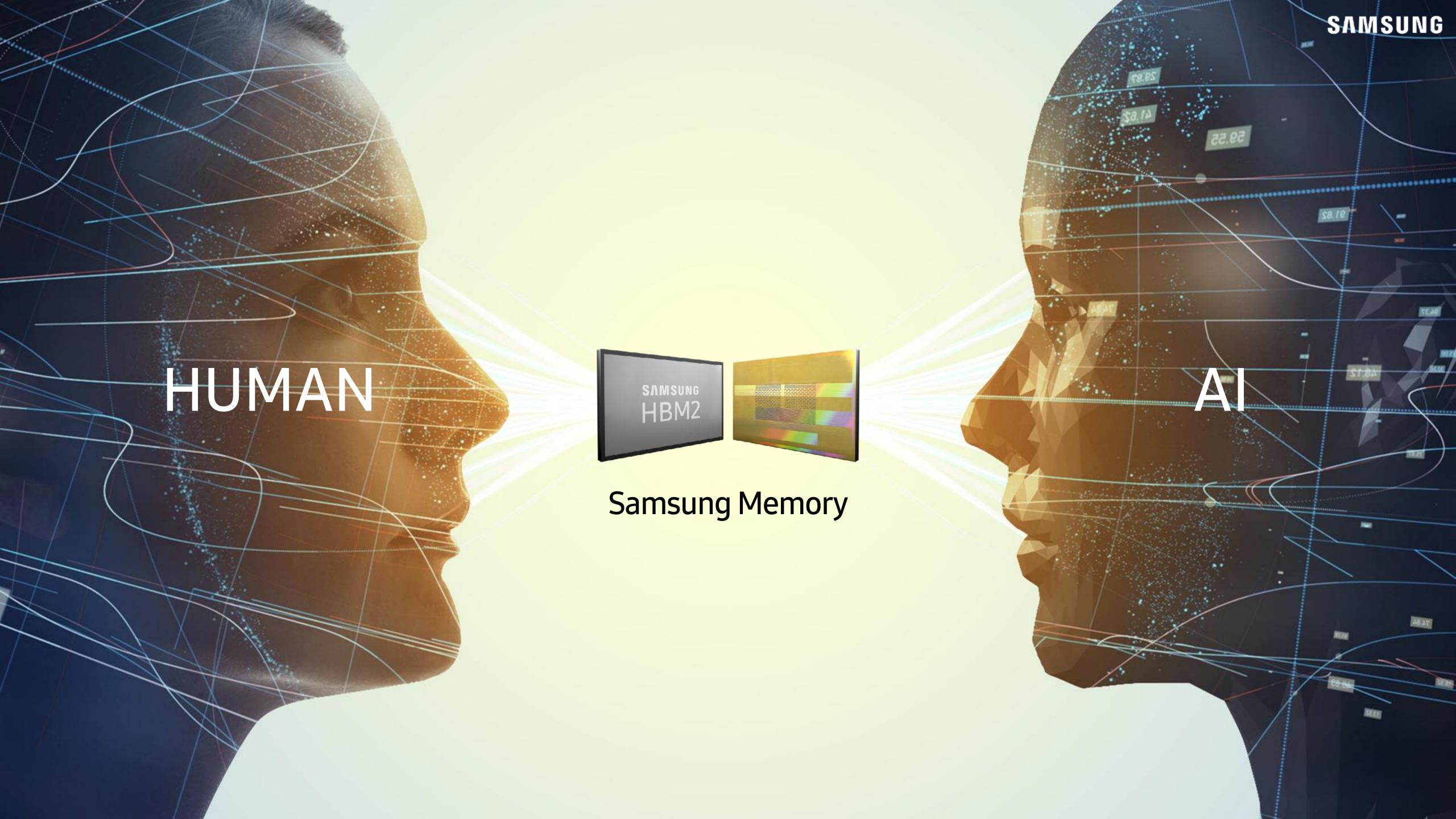
NAND 4100



MEMORY BIZ. PARADIGM SHIFT LED BY SAMSUNG

Samsung is Powering the Technologies that bring Innovation to Lifestyle





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BUSINESS UPDATE

MEMORY MARKET OPPORTUNITIES
 SAMSUNG STRATEGY

GROWTH OF THE PUBLIC CLOUD

Explosive Growth of Unstructured Data

1st WAVE



2nd WAVE



Cloud Service Providers .Com & Forbes Top100

3rd WAVE

Telco Companies

THE FLOOD OF DATA

4TH WAVE



Automotive Companies

2016

2020

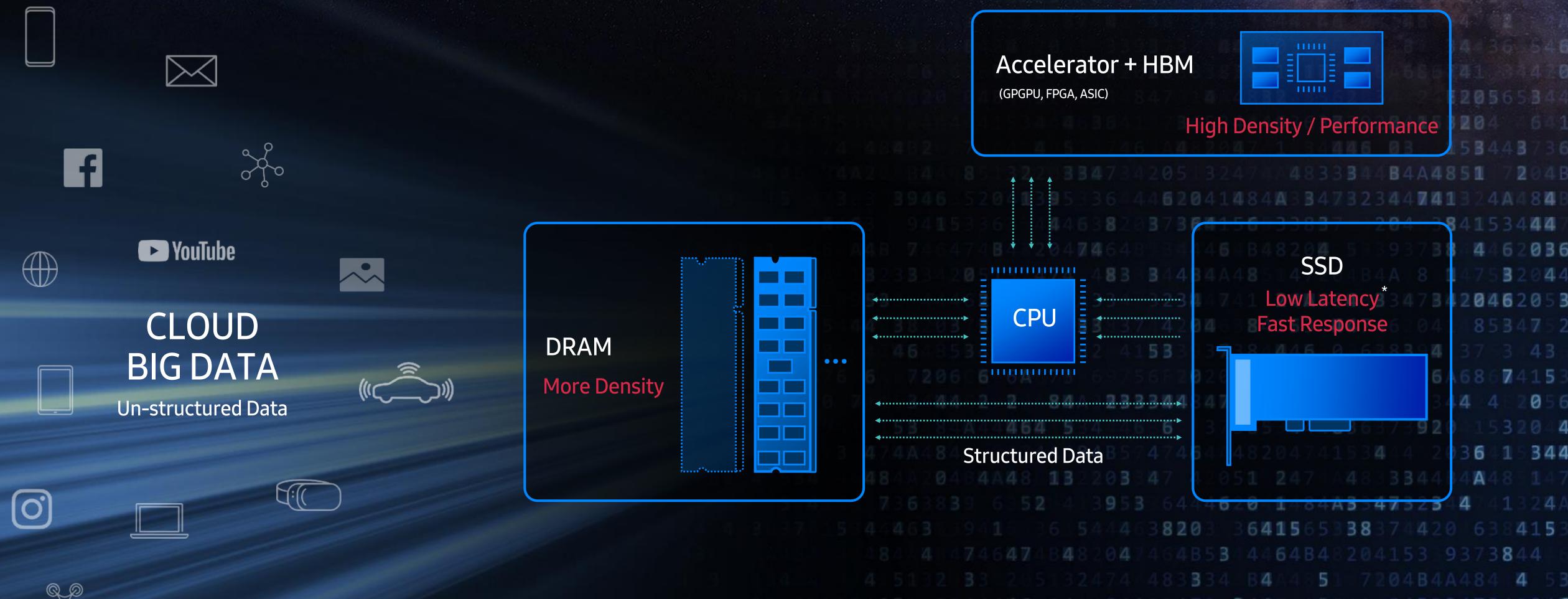
SMART CITY & AUTONOMOUS CAR FUELED BY 5G NETWORK

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



High Density / Performance

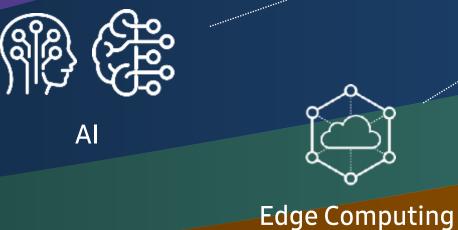
CONTINUOUS GROWTH OF MEMORY DEMAND

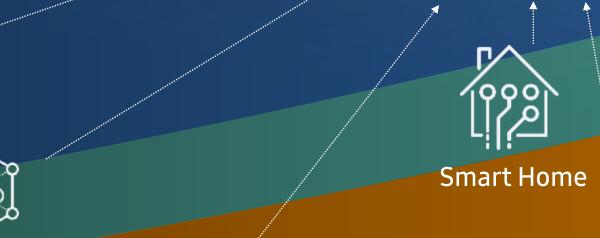
Memory Growth led by Server & Mobile Applications based on Big Data Ecosystem



- Automotive
- Server
- Cons. & Gfx
- Mobile







Big Data Analytics / ML





Network Equipment







(00) Dual Camera



AR & VR

On-Device Al

CONTENTS

BUSINESS UPDATE

MEMORY MARKET OPPORTUNITIES

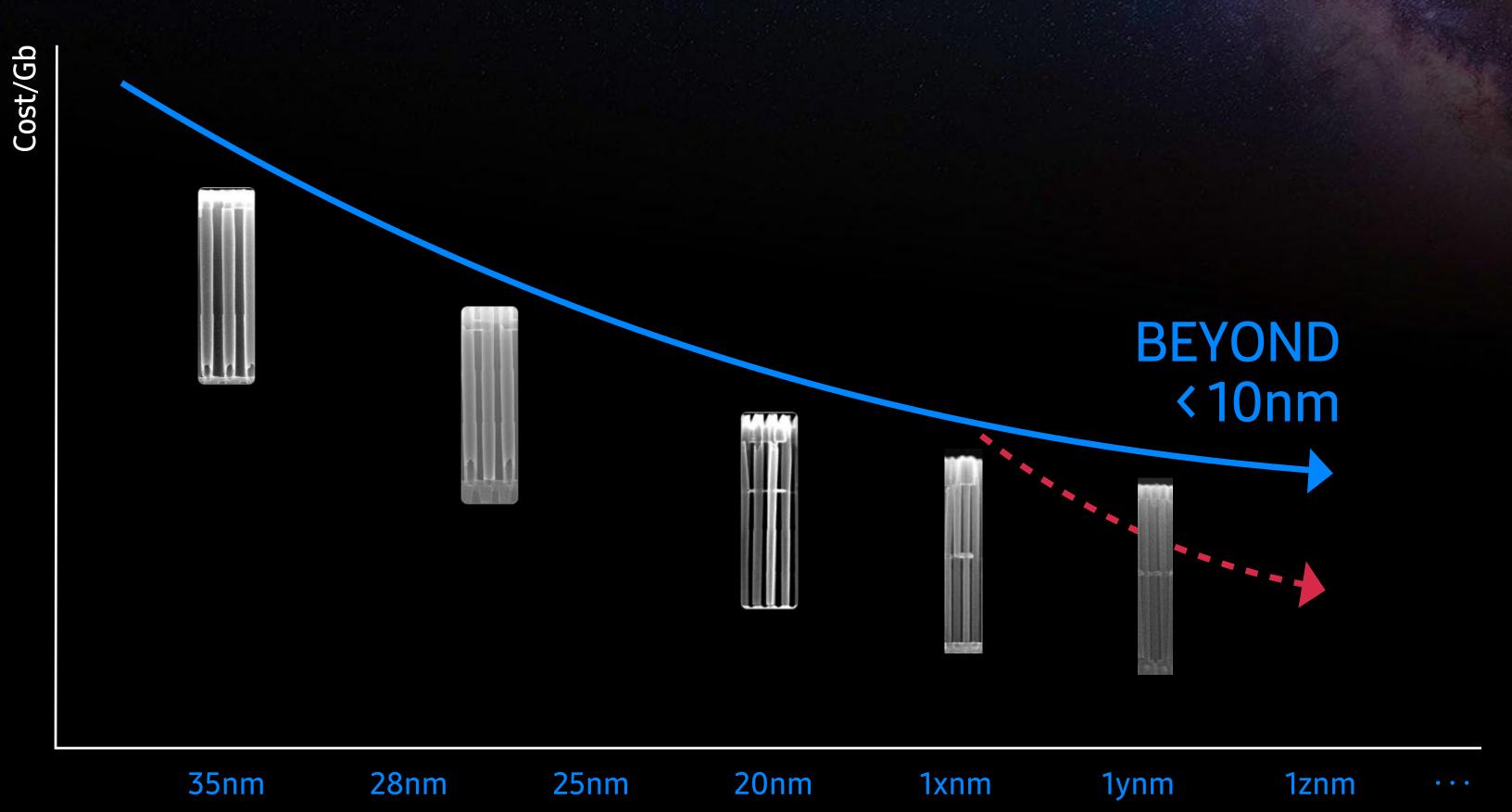
SAMSUNG STRATEGY

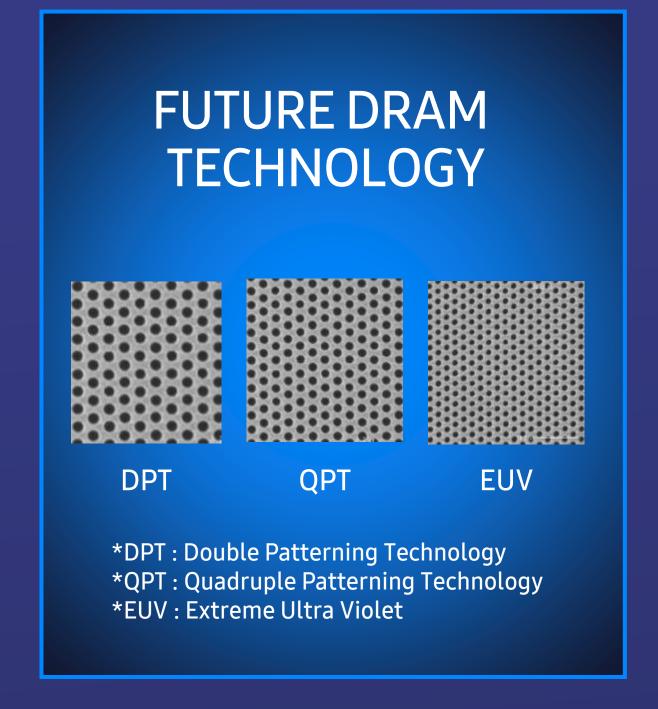


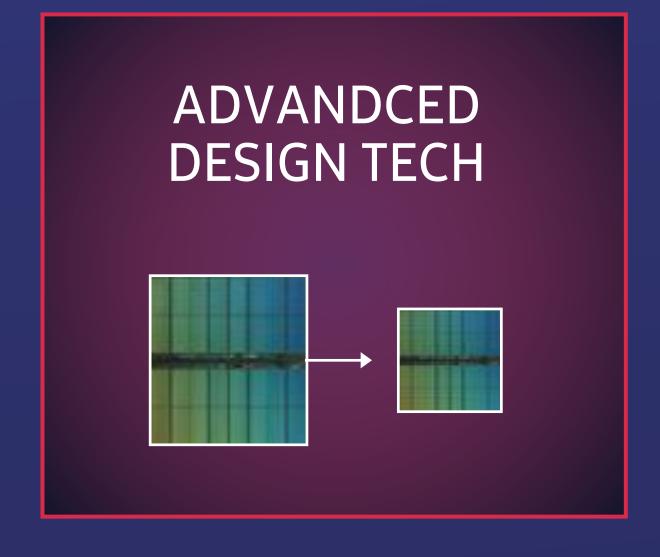
CONTINUOUS TECHNOLOGY SCALING

Thru Technology Evolution

DRAM

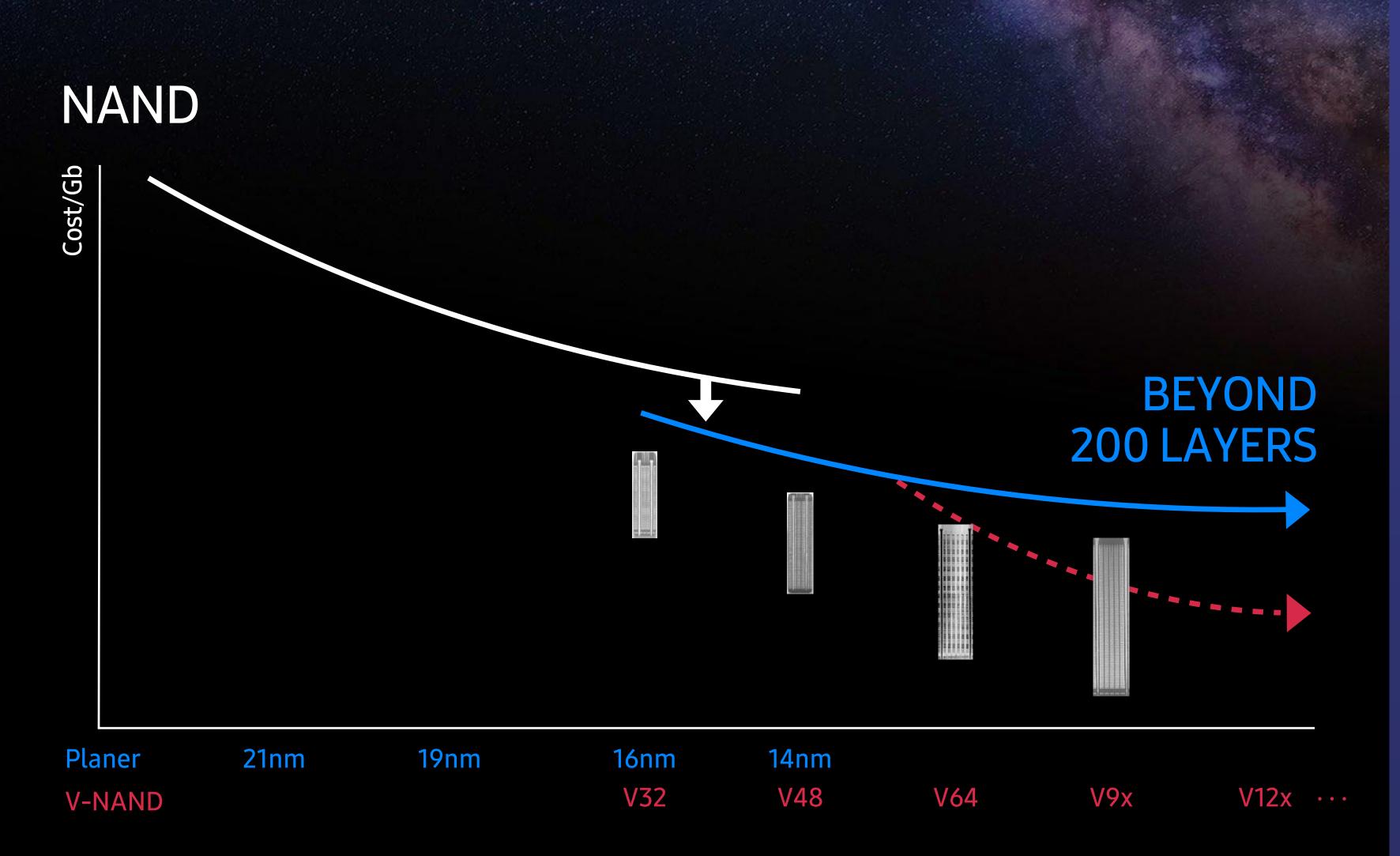


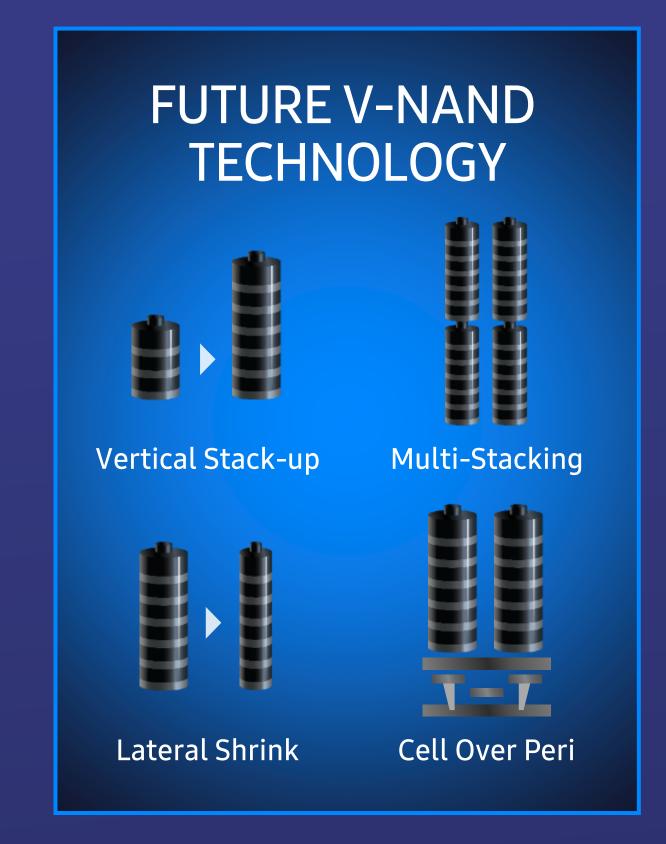


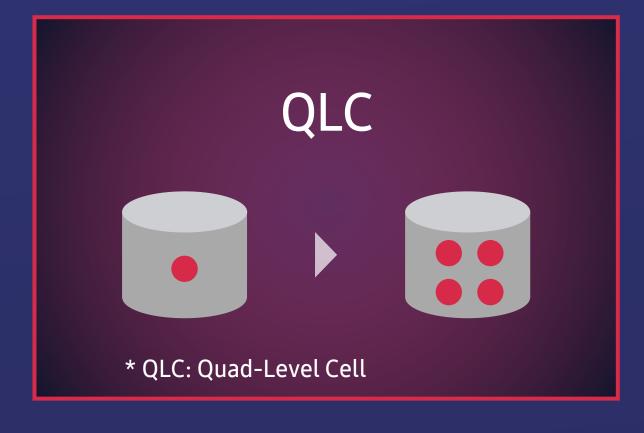


PUSHING THE LIMITS OF V-NAND

Thru Innovative Layer Stacking Technology







UNIQUE CAPABILITIES FOR DIFFERENTIATED SOLUTIONS

Integrating Key Components to Deliver Value-added Solutions

ADVANCED PROCESS
TECHNOLOGY

Wafer / Chip

ADVANCED PACKAGING TECHNOLOGY

Stacking / TSV

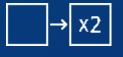


Software & Logic (Controller)





Smaller



Higher Density



Less Power Consumption



Faster



Thinner



Smaller



No Performance Loss



Customized



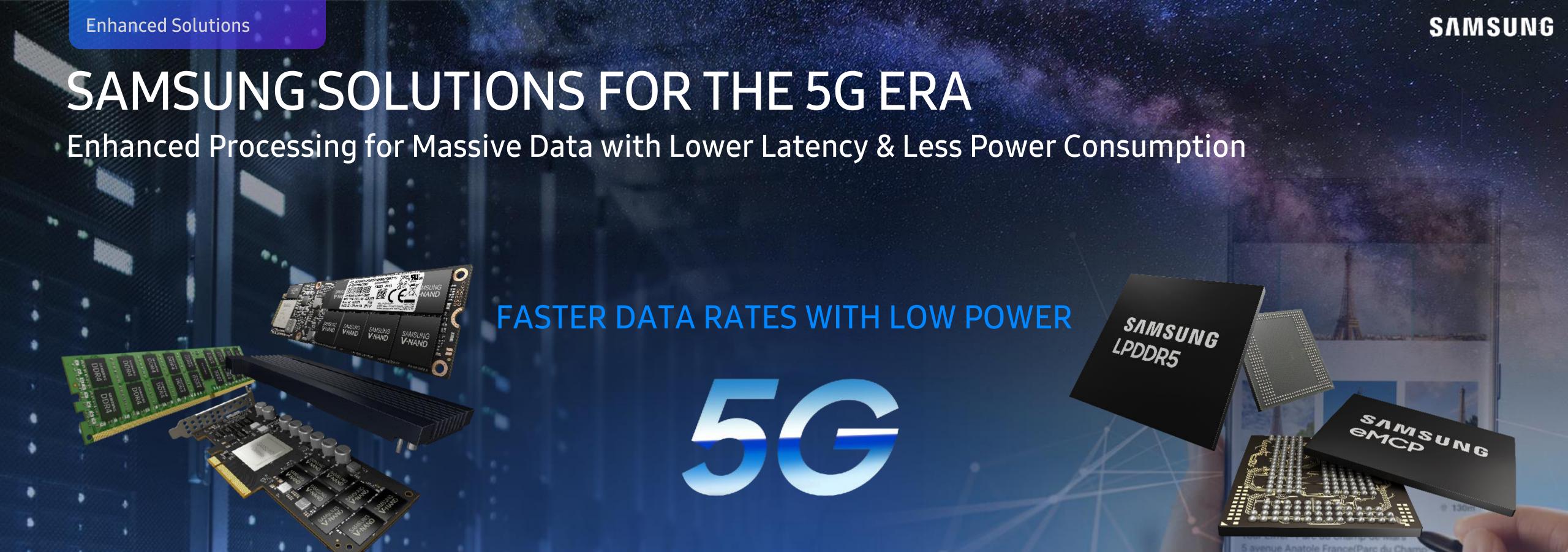
Expandable



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

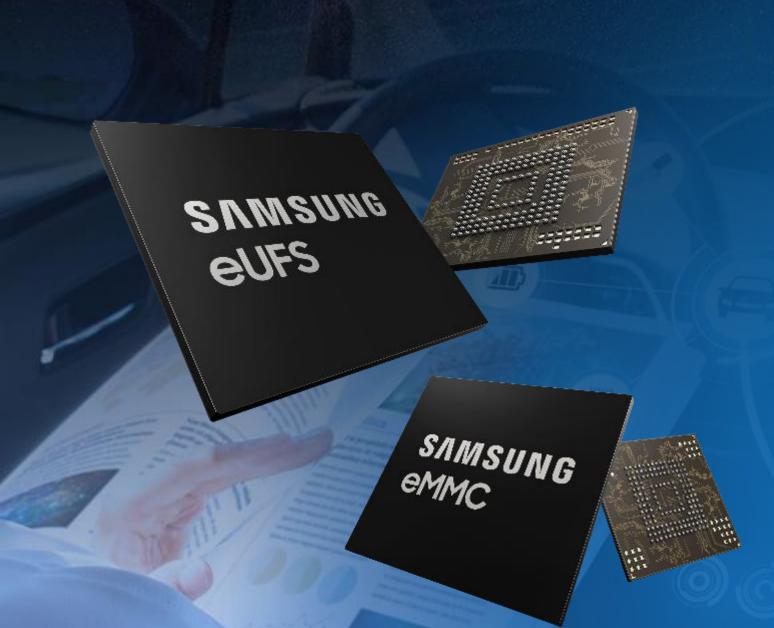
Largest Density

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

ELECTRIFIED



CONNECTED



AUTOMATED

SAMSUNG DDR3



Automotive eStorage

High Density

Temperature Notification

Data Refresh

Automotive DRAM

High Bandwidth

Lower Power Consumption

Higher Reliability

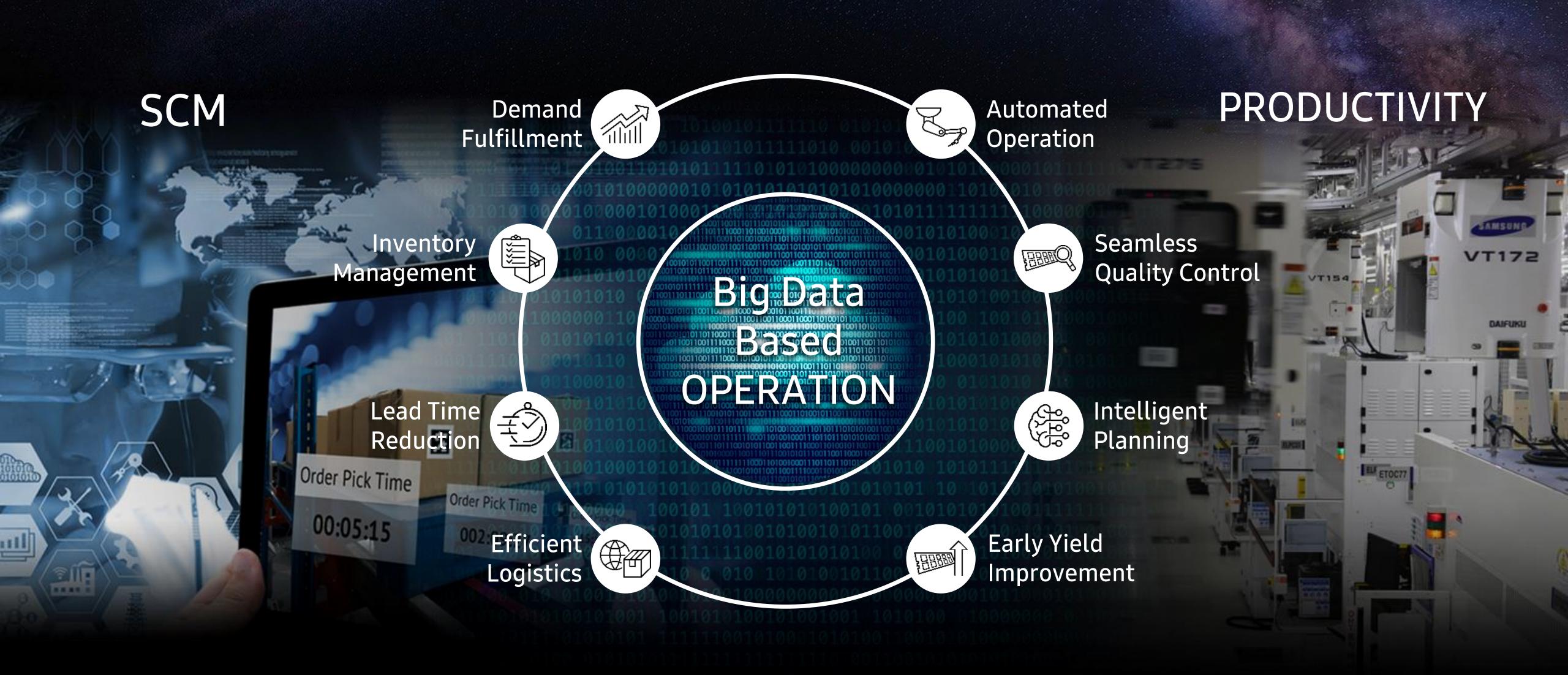
APPLICATION-ORIENTED LINE MANAGEMENT

2-Track Strategy for Efficient Production & Capacity Allocation



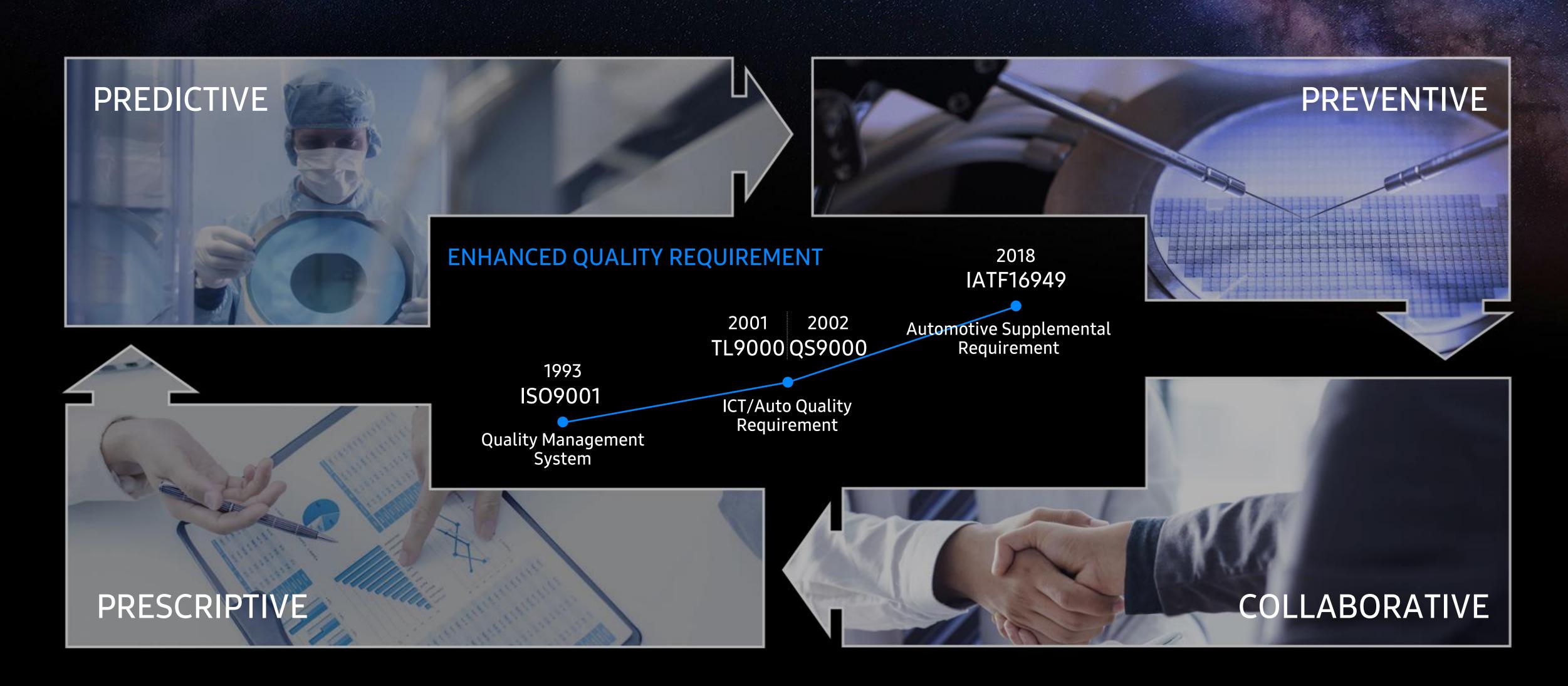
EVOLUTION TO SMARTER FACTORY

Customer Value Improvement through High Productivity and Enhanced SCM



QUALITY BY DESIGN

Exceed 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