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SAMSUNG MEMORY

Investor Presentation

CONTENTS

BUSINESS UPDATE
 MEMORY MARKET OPPORTUNITIES
 SAMSUNG STRATEGY

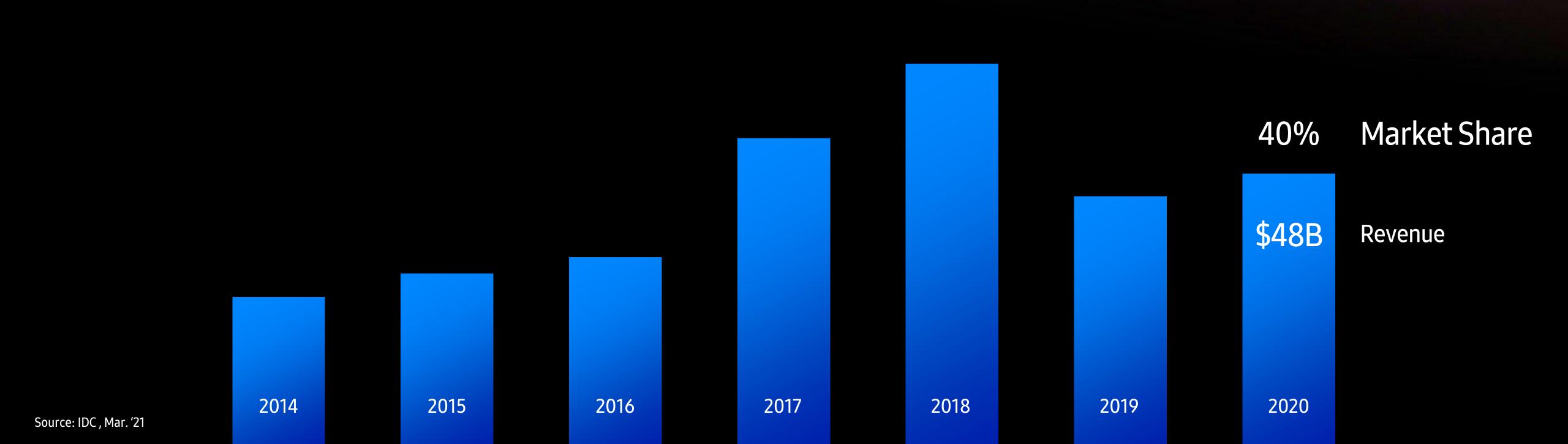
SAMSUNG MEMORY BUSINESS REVIEW

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

2020 Market Share

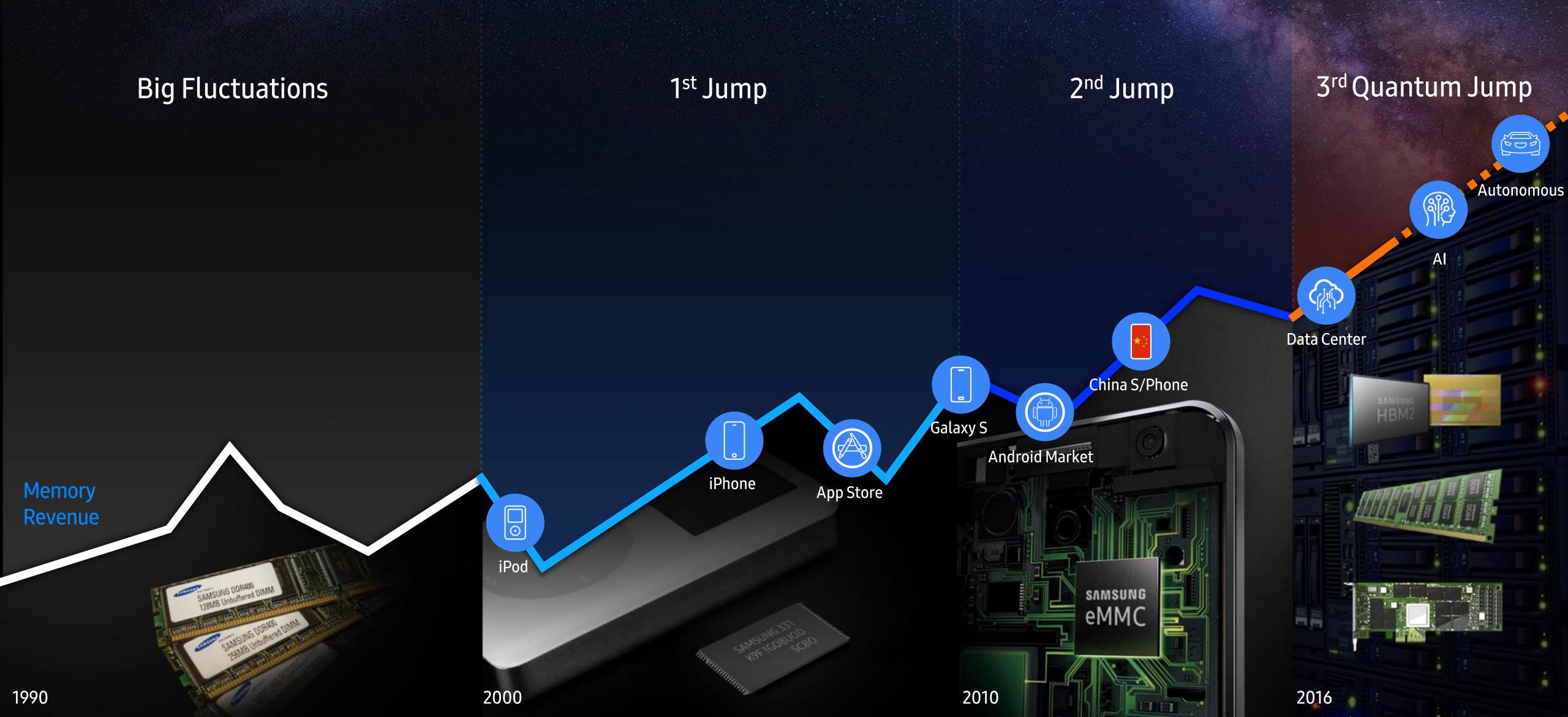


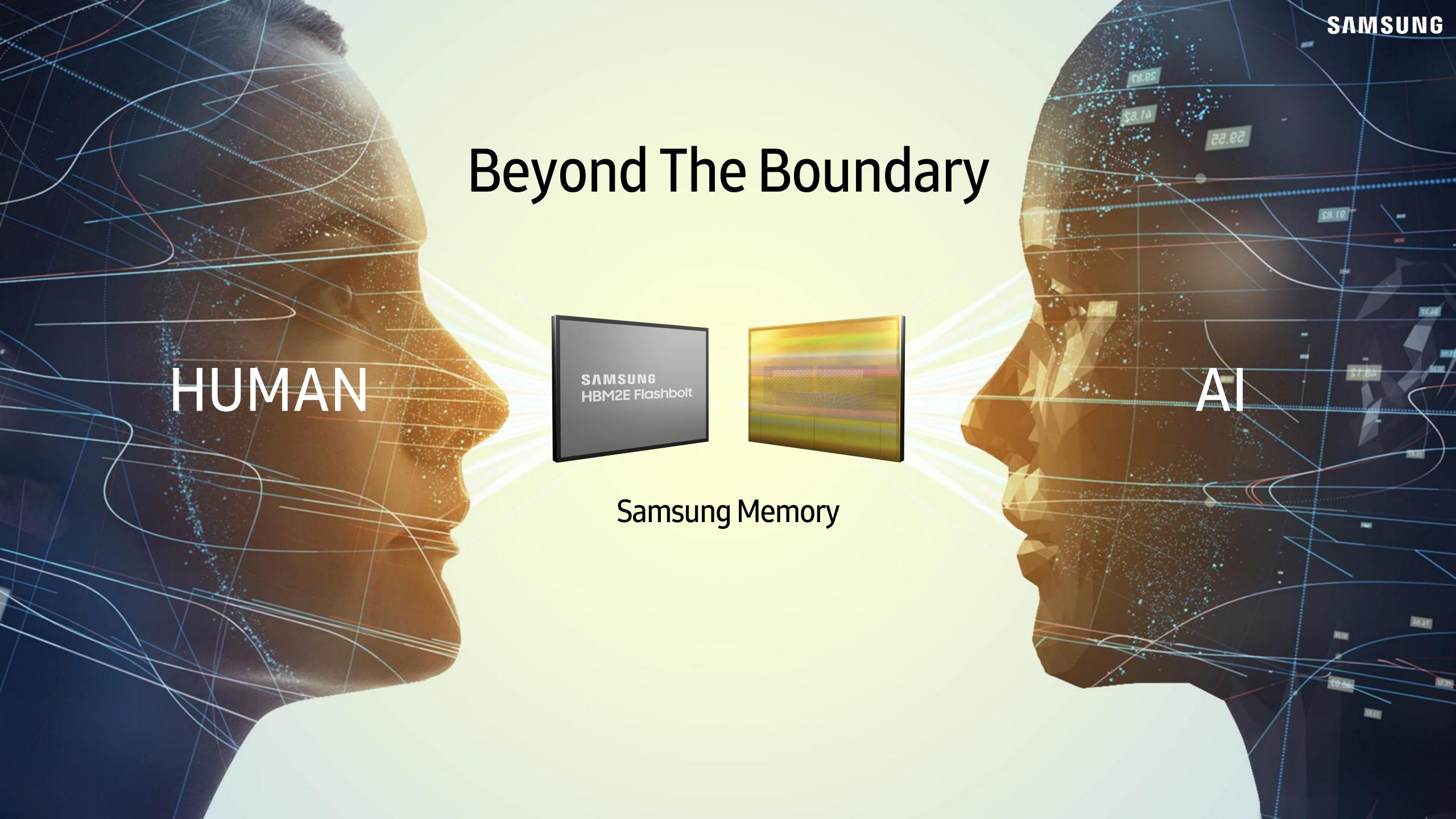
NAND 35%



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 WAVF



Cloud Service Providers

2nd WAVE



.Com & Forbes Top100

3rd WAVE

5G

Telco Companies

THE FLOOD OF DATA

4TH WAVE



Automotive Companies

2016 2020

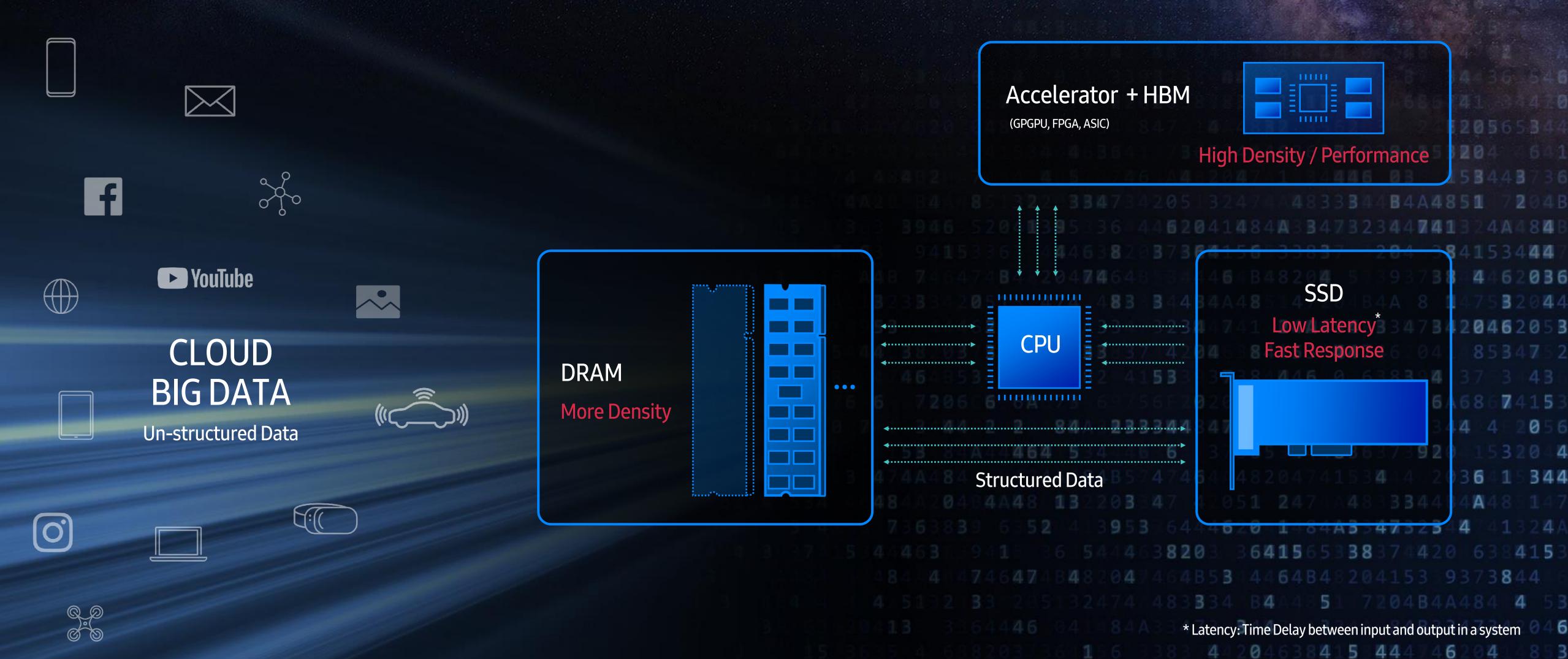
SMART CITY & AUTONOMOUS CAR FUELED BY 5G NETWORK

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



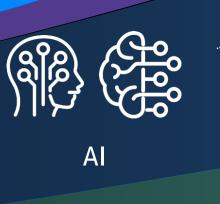
CONTINUOUS GROWTH OF MEMORY DEMAND

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



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









Big Data Analytics / ML





Network Equipment









(00)

Dual Camera

2017



AR & VR

2018

2019

2020

CONTENTS

BUSINESS UPDATE

MEMORY MARKET OPPORTUNITIES

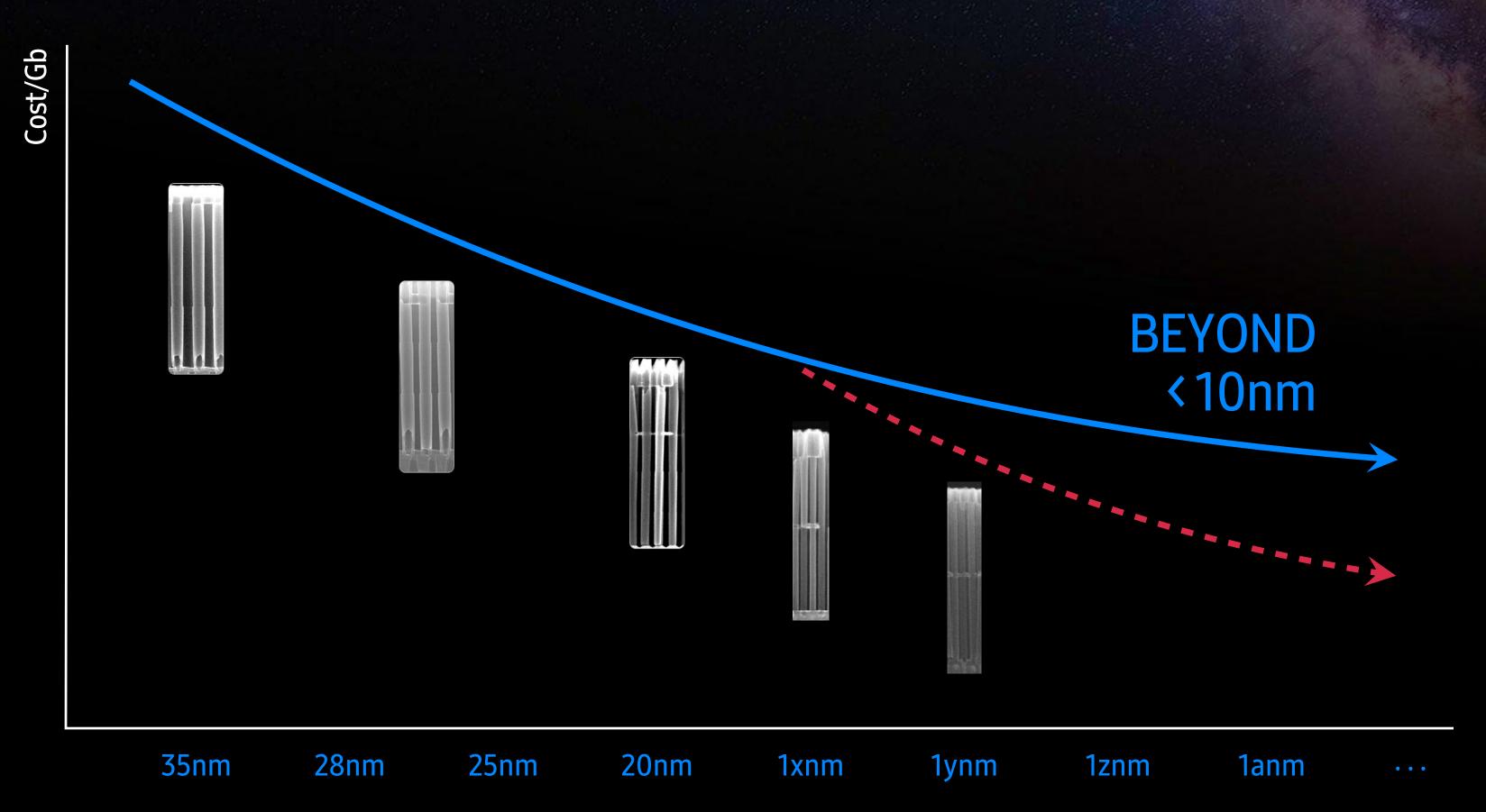
SAMSUNG STRATEGY

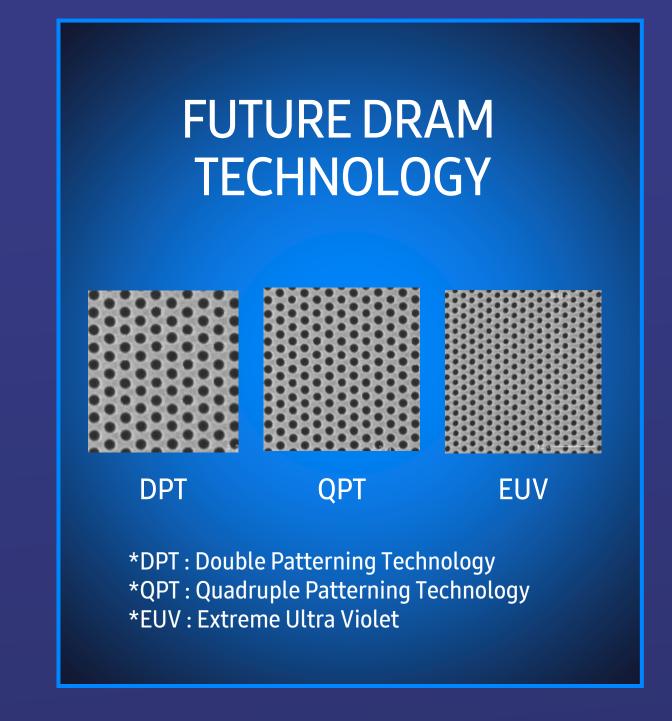


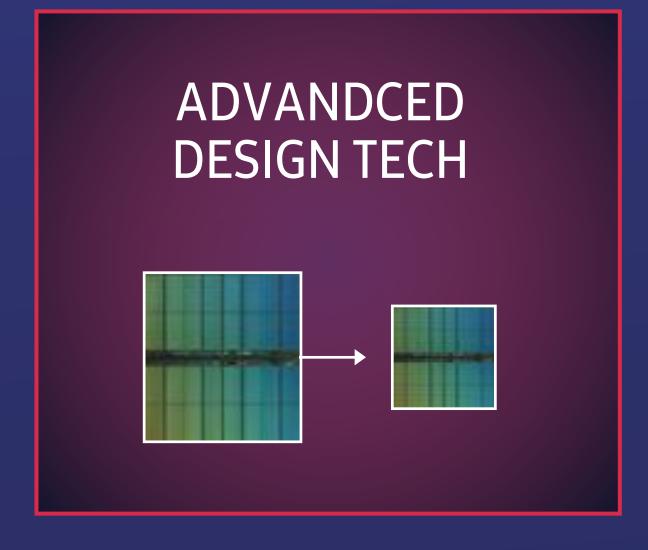
CONTINUOUS TECHNOLOGY SCALING

Thru Technology Evolution

DRAM

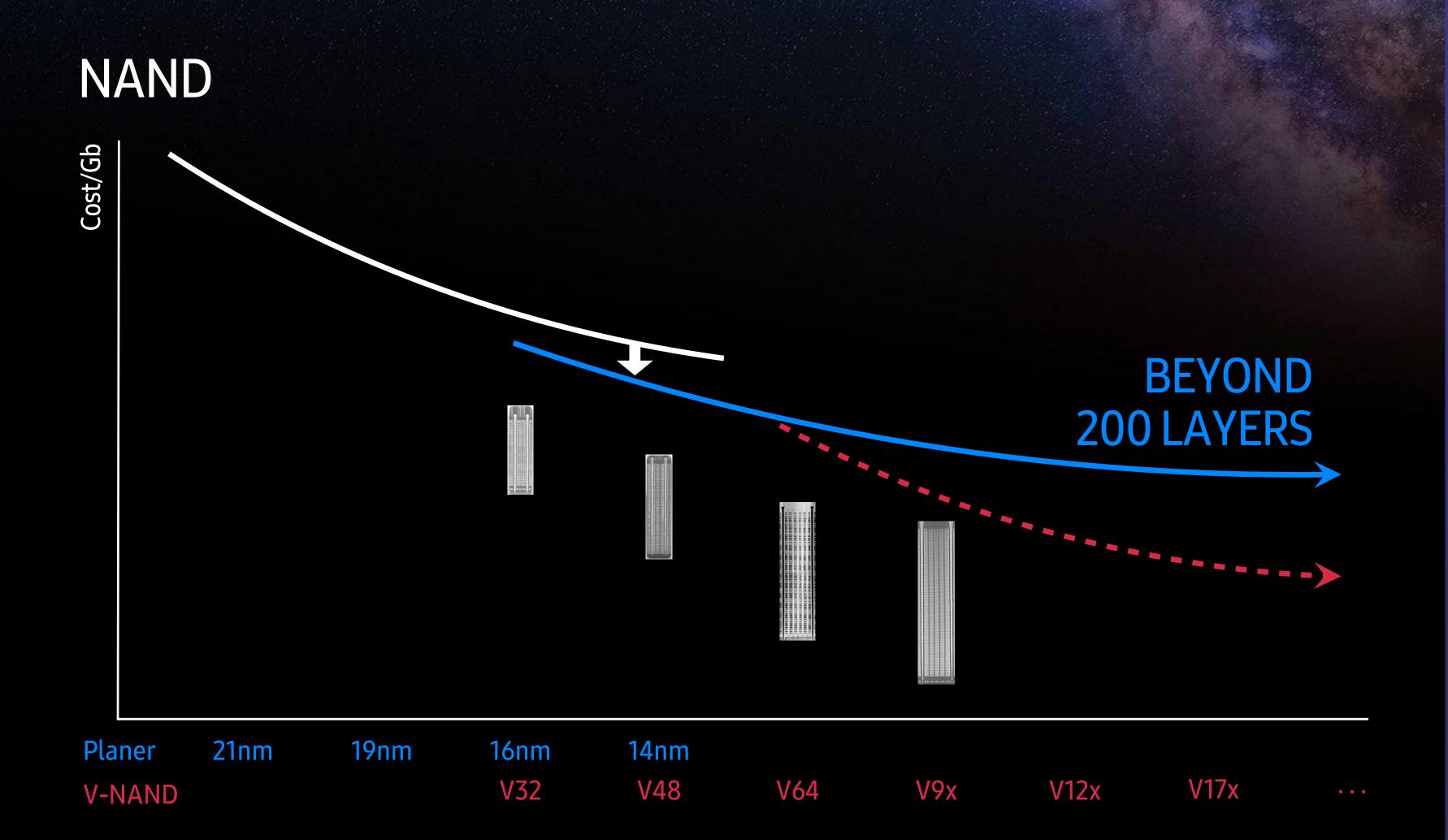


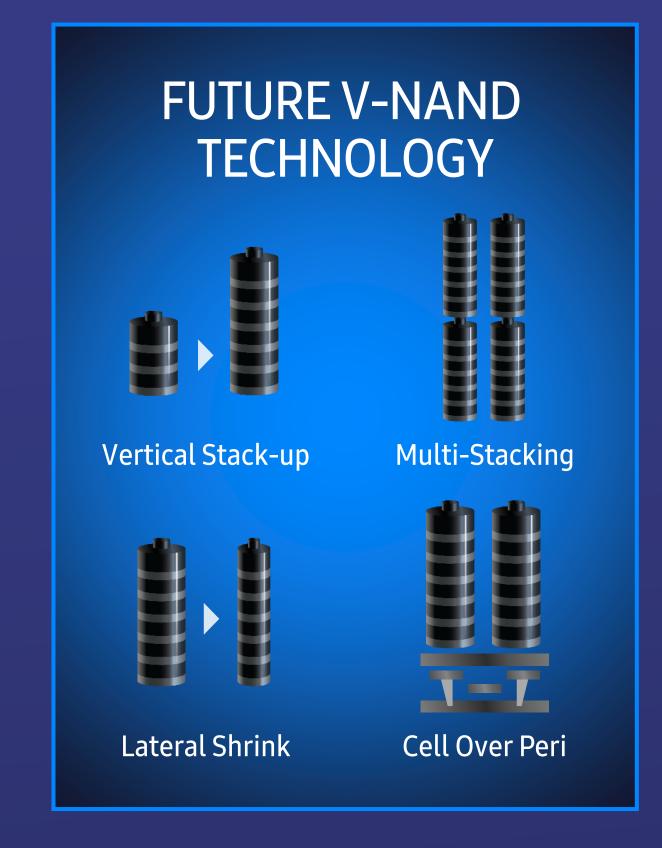


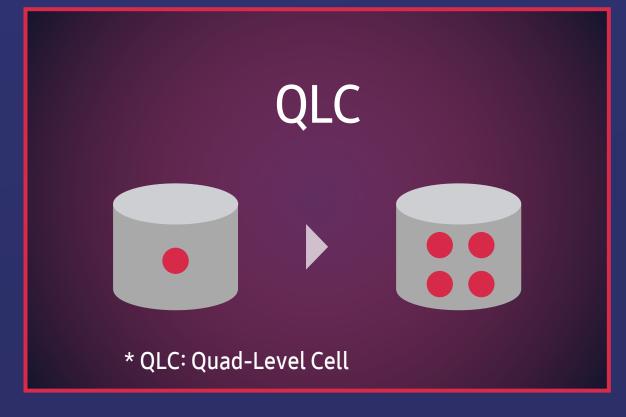


Thru Innovative Layer Stacking Technology

Break-through 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





Expandable



Smarter



Secure



3DS RDIMM, Z-SSD

Low Latency *

High Capacity

Stable QoS

LPDDR5/5X

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



16GB HBM2E^{*}

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 Autonomous Driving Technology



Dedicated Support for automotive

Full Memory Line-ups

Quality & Longevity

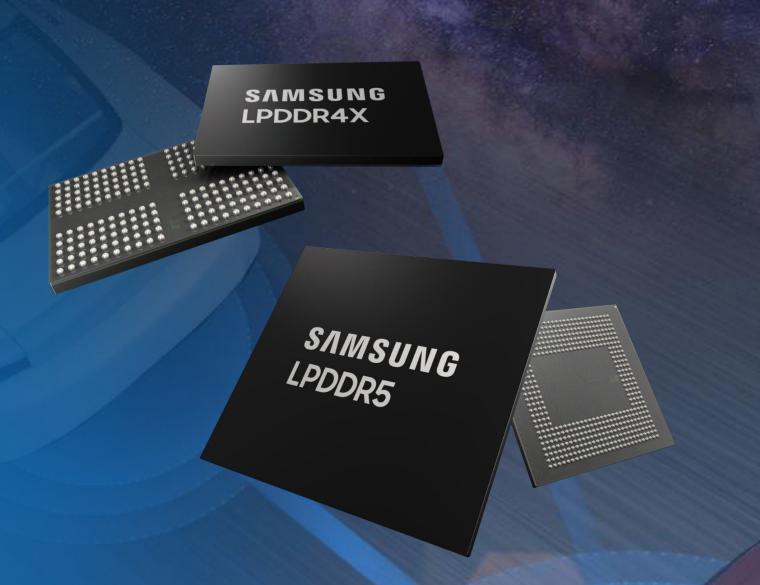
Full In-house Solution

ELECTRIFIED

CONNECTED

AUTONOMOUS





Automotive Storage

High Density

High Performance

High Reliability

Automotive DRAM

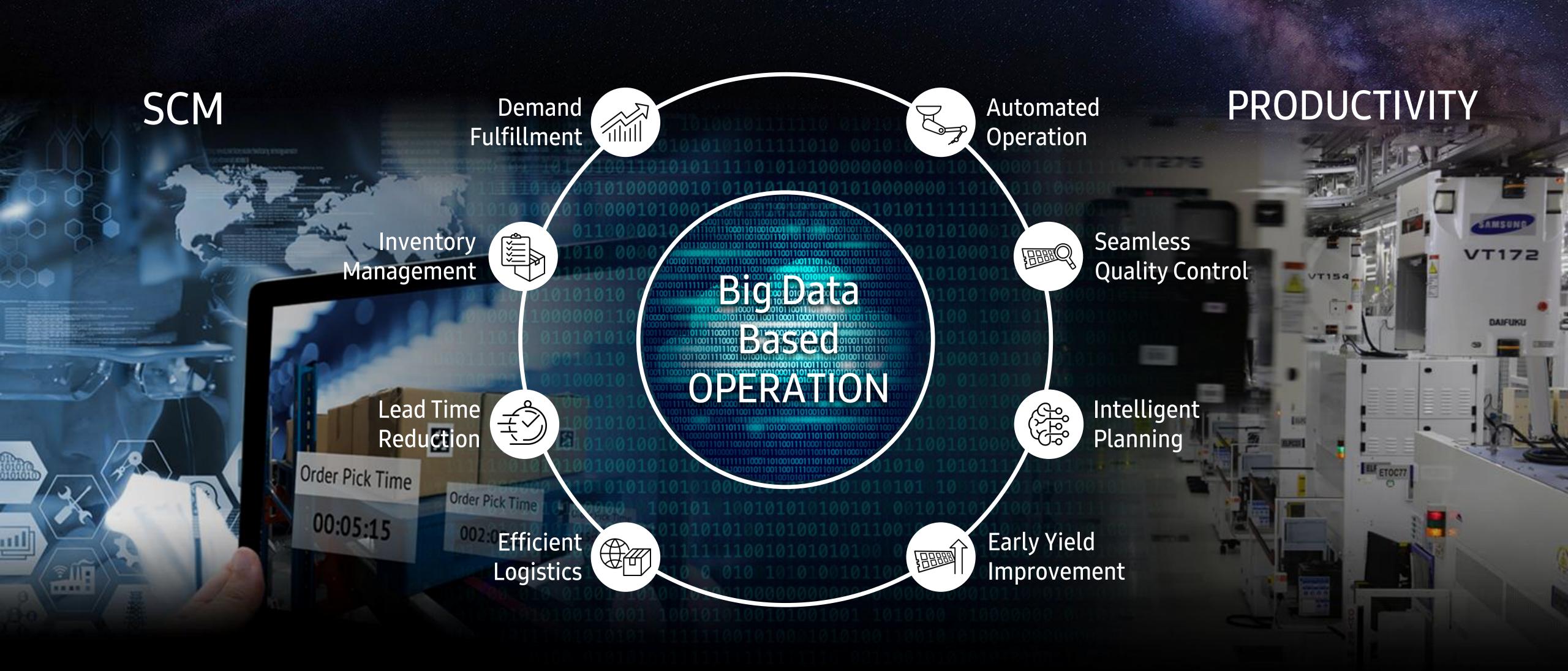
High Bandwidth

Lower Power Consumption

Higher Reliability

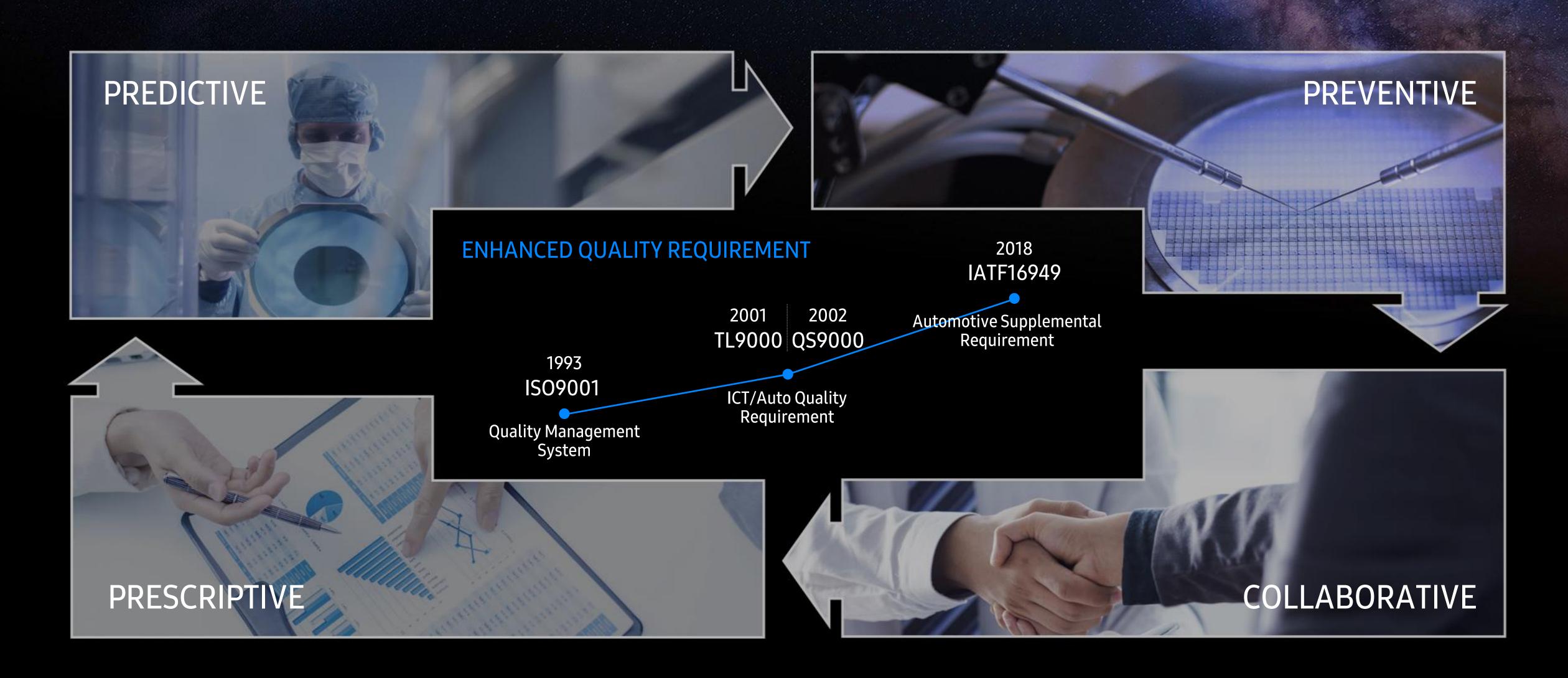
EVOLUTION TO SMARTER FACTORY

Customer Value Improvement through High Productivity and Enhanced SCM*



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