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# SAMSUNG FOUNDRY

Investor Presentation 2019

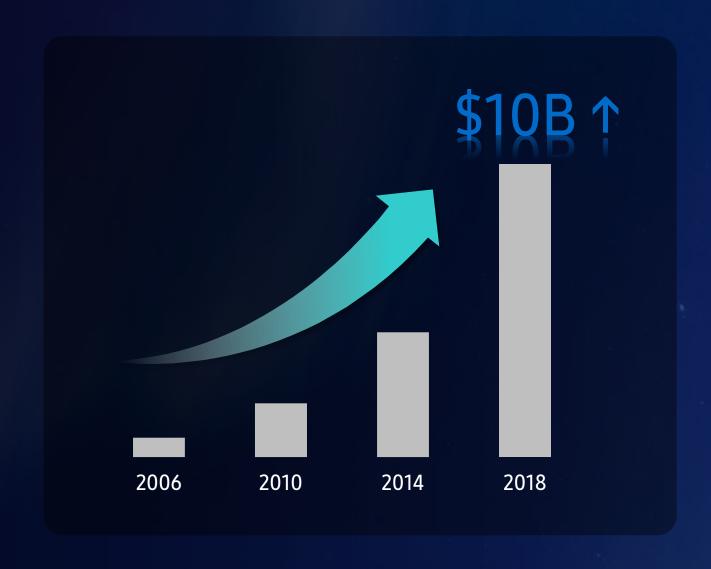
**BUSINESS UPDATE** 

MARKET OPPORTUNITIES

SAMSUNG STRATEGY

# Financial Highlights

Continuous revenue growth, achieved more than \$10 billion in 2018





### **Business Milestones**

Business Start

**S1-Line Construction** 



Foundry 1st

HKMG
\*High-K Metal Gate
Mass
Production

S2-Line Ramp up



Foundry 1st

FinFET
Mass
Production



10nm Mass Production





New Business Unit



S3-Line Ramp up 7nm EUV
Mass
Production





2005 2011 2015 2016 2017 2018 2019

# Global Manufacturing Sites

Advanced 300mm Fabs, Matured 200mm Fab, Test/Package Facilities in 3 Locations in Korea and US in Korea and China S2-Line (65nm~14nm) S3-Line S4-Line Line-6 S1-Line **EUV Line TSP** SSES

<sup>\*</sup> SSES: Samsung Electronics Suzhou Semiconductor

<sup>\*</sup> TSP: Test and System Package

**BUSINESS UPDATE** 

MARKET OPPORTUNITIES

SAMSUNG STRATEGY

### **Smart and Connected World**

New applications emerge with 5G, bringing greater demand for semiconductor Foundry will be a pathfinder in realizing unforeseen technology





# Foundry Market Opportunities

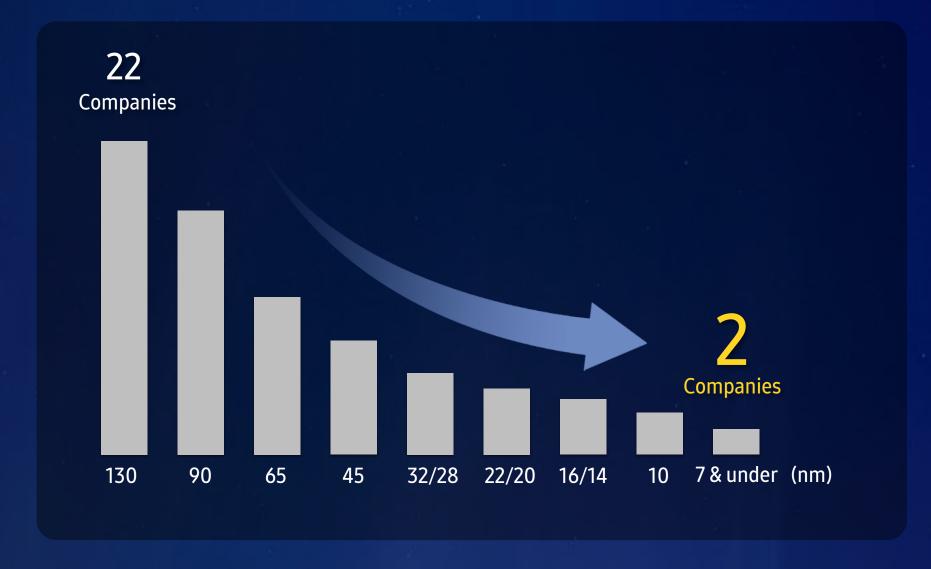
#### Foundry Market by Node

Expected to grow more than 4% per year on average by 2021



#### # of Foundry Providers by Node

Now only 2 companies, including Samsung, provide leading-edge foundry services



BUSINESS UPDATE

MARKET OPPORTUNITIES

SAMSUNG STRATEGY

### Our Vision

### The Most Trusted Foundry,

providing creative solutions for customers' innovation needs

### Technology

- Unrivaled process technology
- Customer-friendly design infrastructure
- Semiconductor 'One stop shop'

### Operation

- Flawless supply chain management
- Unparalleled execution to deliver our commitment
- Highest level of visibility & flexibility

### Service

- Service beyond expectation
- Deep knowledge and expertise to solve customer challenges
- Agile collaboration for customers' success

## Advanced Technology

Maintain Firm Technology Leadership through Continuous Node Scaling

Ready to support a wide variety of applications and customers



### Differentiated Platform, FD-SOI

#### 28/18FDS, Solution for IoT, Security, Industrial, and Automotive

- RF : Supports 110GHz mmWave
- eMRAM: Extremely small bitcell, superior write speed and endurance time

#### FDS Technology Offering

	Logic	RF	eMRAM
28FDS			
18FDS	0	0	0
● Available ○ Under Development			

#### Next Generation eMRAM Strategy

- 28FDS eMRAM solution's Commercial Shipment Started in 2019
- 1Gb eMRAM Development on Track
- eMRAM on FinFET Technology under development

# 8-inch Value-Added Offerings

### Portfolio Expansion from eFlash, Power IC, DDI, CIS, MS/RF to Power-discrete

Technologies extensively optimized through many years of product manufacturing









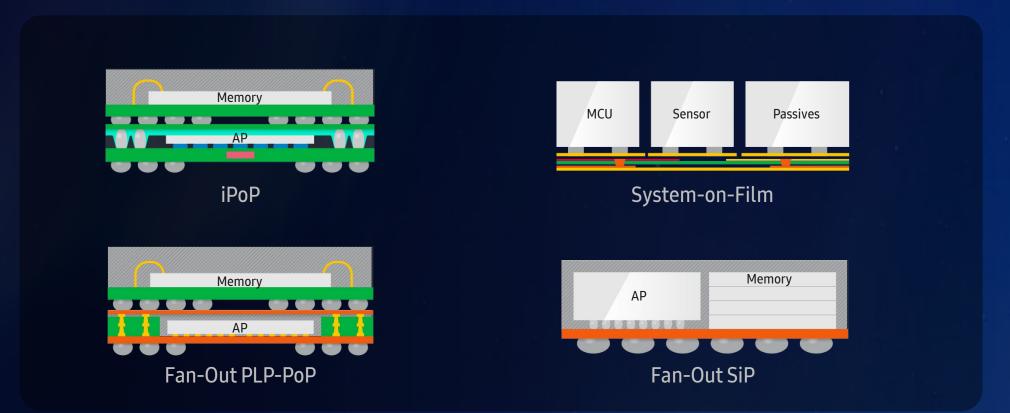




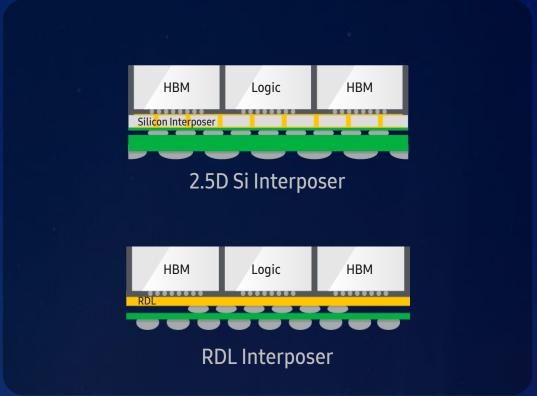
# Advanced Package Solutions

Advanced Package Technology Drives System Level Performance Improvement by Enabling More Integration and Better Performance

#### Mobile Package



#### **HPC Package**



# Foundry Ecosystem

'SAFE', the Ecosystem that Samsung Foundry has Built with its Partners, is Always SAFE



**BUSINESS UPDATE** 

MARKET OPPORTUNITIES

SAMSUNG STRATEGY

## Key Takeaways

- Maintain firm leadership in advanced node technology
- Expanding differentiated offerings and solutions for various applications
- Enhancing state-of-the-art operations to satisfy customers' needs
- Providing best products and services to enable customers' success

### SAMSUNG

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