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SAMSUNG FOUNDRY

Investor Presentation 2020

BUSINESS UPDATE

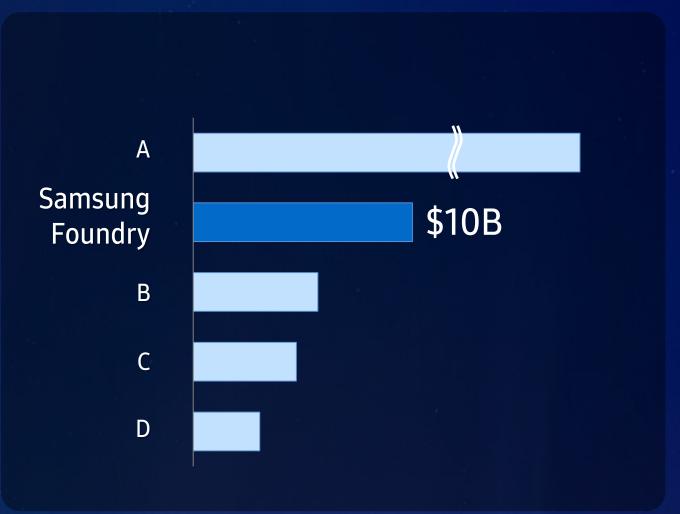
MARKET OPPORTUNITIES

SAMSUNG STRATEGY

Financial Highlights

Continuous revenue growth, exceeded \$10 billion since 2018



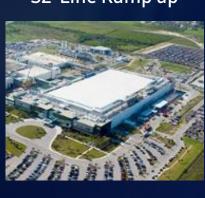


Business Milestones

Foundry Business Start







Foundry 1st

HKMG

Mass

Production

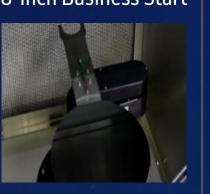


Foundry 1st **FinFET** Mass Production



10nm Mass Production

Industry 1st

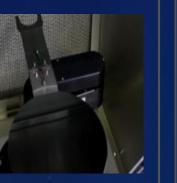


Spin-off into Independent **Business Unit**



Completed V1 Line Construction







S3-Line Ramp up

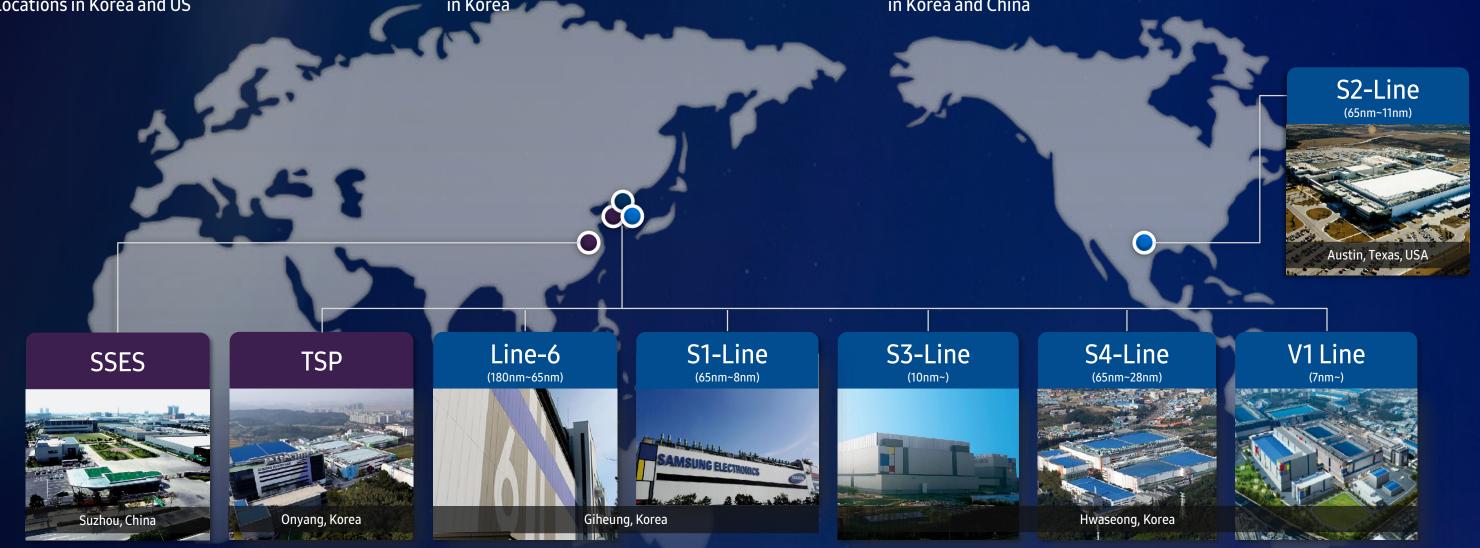




2005 2011 2015 2016 2017 2018 2019

Global Manufacturing Sites

Advanced 300mm Fabs, Matured 200mm Fab, Test/Package Facilities in 3 Locations in Korea and US in Korea and China



^{*} SSES: Samsung Electronics Suzhou Semiconductor

^{*} TSP: Test and System Package

BUSINESS UPDATE

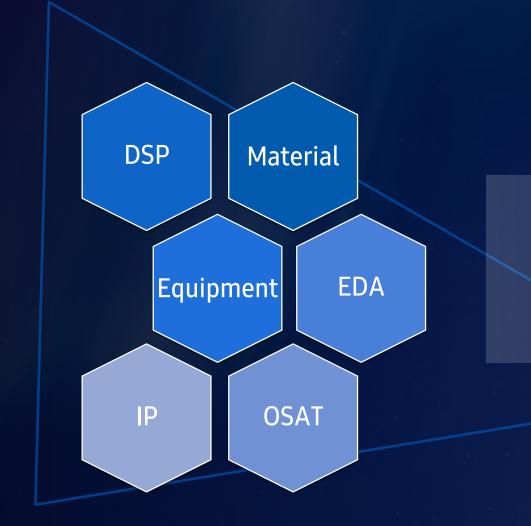
MARKET OPPORTUNITIES

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



Samsung Foundry,
Pathfinder



Mobile and Network



Advanced
Driver Assistance Systems



High Performance Computing and Artificial Intelligence

Foundry Market Opportunities

Foundry Market by Node

Expected to grow more than 5% per year on average by 2022



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			

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









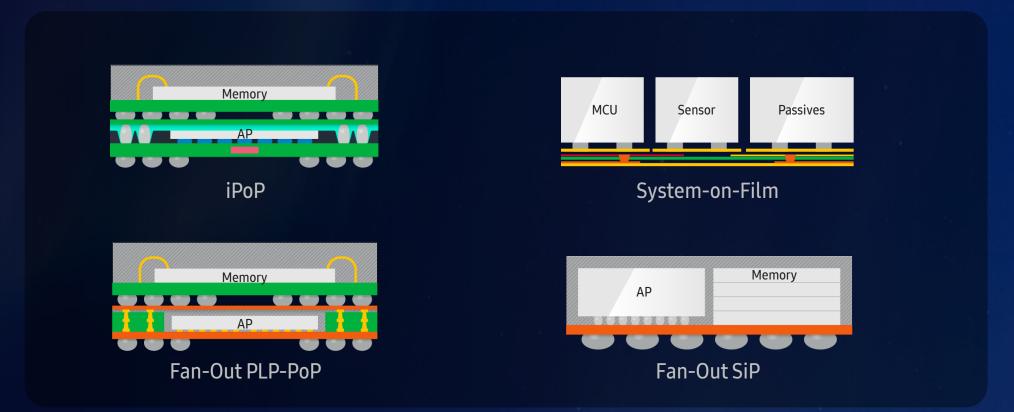




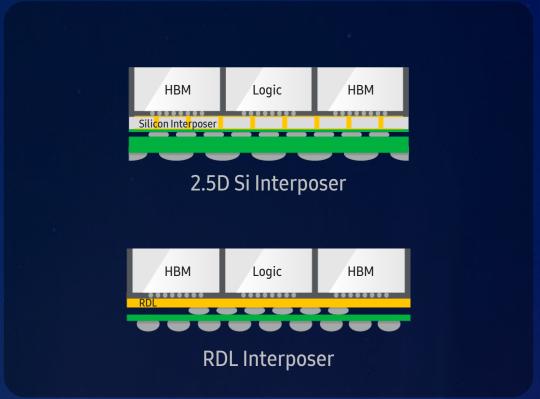
Advanced Package Solutions

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

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