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SAMSUNG FOUNDRY



Investor Presentation

2020

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BUSINESS UPDATE

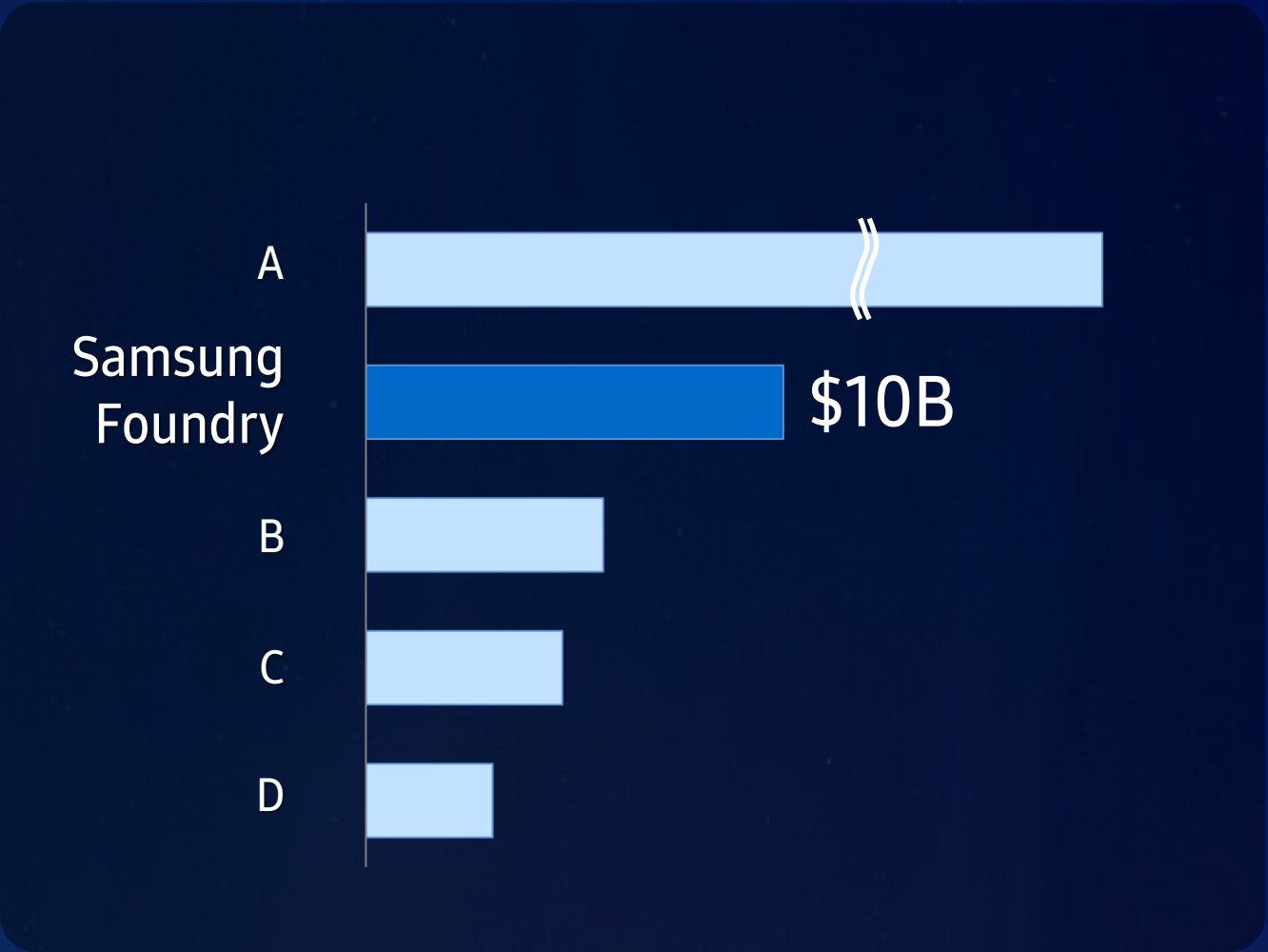
MARKET OPPORTUNITIES

SAMSUNG STRATEGY

KEY TAKEAWAYS

Financial Highlights

Continuous revenue growth, exceeded \$10 billion since 2018



Business Milestones

Foundry
Business
Start

S1-Line Construction



2005

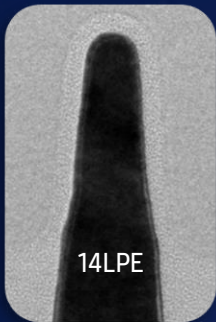
Foundry 1st
HKMG
* High-K Metal Gate
Mass
Production

S2-Line Ramp up



2011

Foundry 1st
FinFET
Mass
Production



2015

Industry 1st
10nm
Mass
Production

8-inch Business Start



2016

Spin-off into
Independent
Business Unit



2017

7nm EUV
Production
Start

S3-Line Ramp up



2018

Completed
V1 Line
Construction



2019

Global Manufacturing Sites

Advanced 300mm Fabs, Matured 200mm Fab, Test/Package Facilities

in 3 Locations in Korea and US

in Korea

in Korea and China



* SSSES: Samsung Electronics Suzhou Semiconductor

* TSP: Test and System Package

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Smart and Connected World

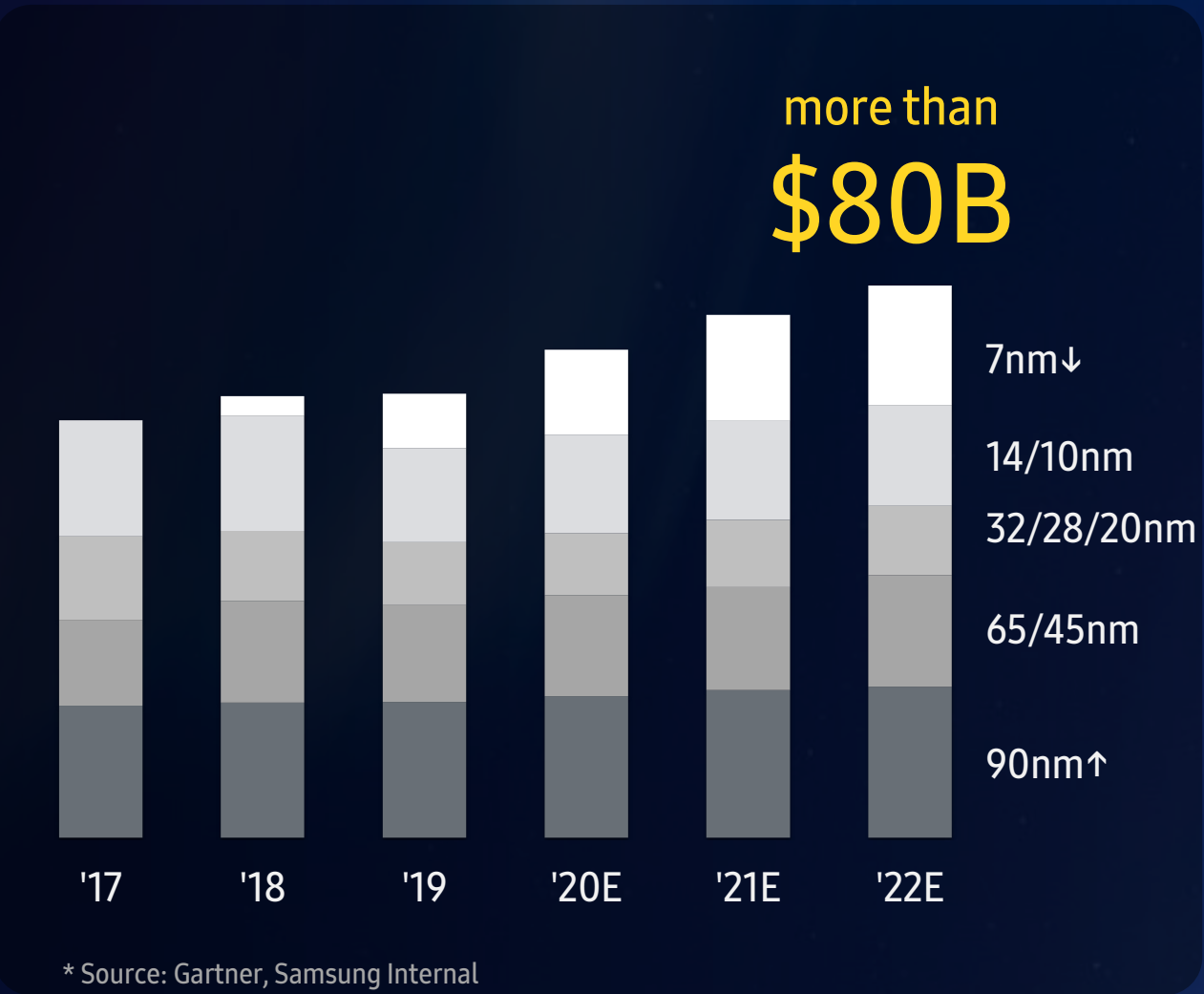
New applications emerge with 5G, bringing greater demand for semiconductor
Foundry will be a pathfinder in realizing unforeseen technology



Foundry Market Opportunities

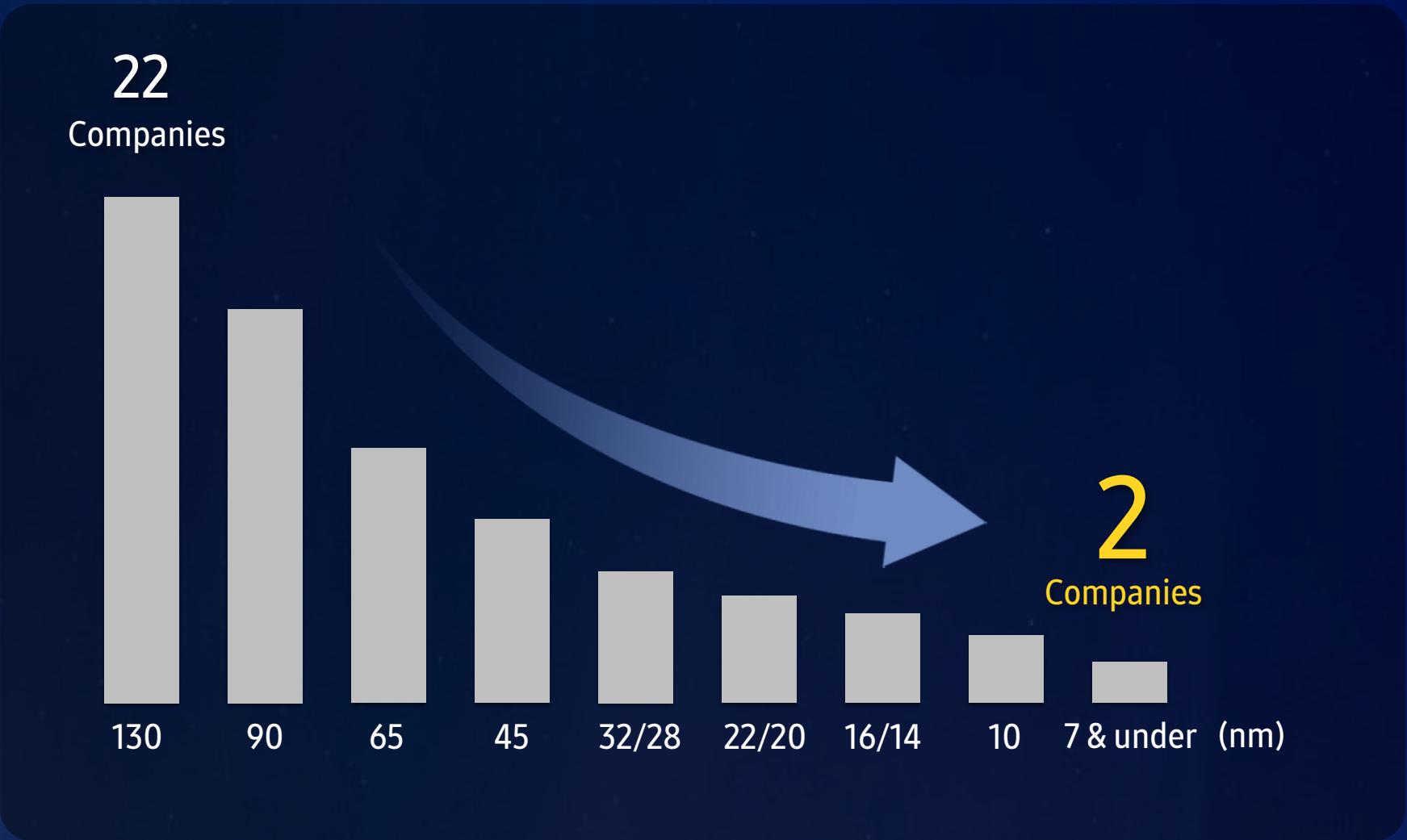
Foundry Market by Node

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



of Foundry Providers by Node

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



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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	○	○	○

● 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

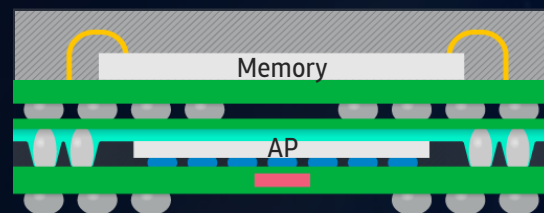
Portfolio Expansion from eFlash, Power IC, DDI, CIS, MS/RF to Power-discrete
Technologies extensively optimized through many years of product manufacturing



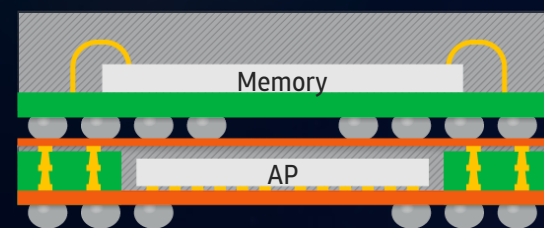
Advanced Package Solutions

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

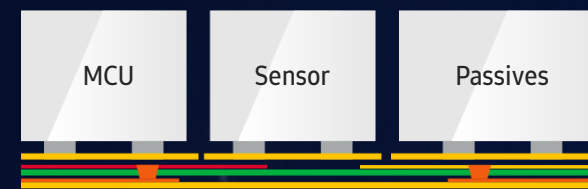
Mobile Package



iPoP



Fan-Out PLP-PoP

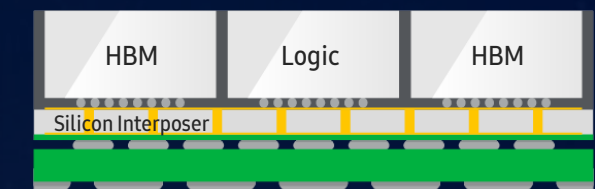


System-on-Film

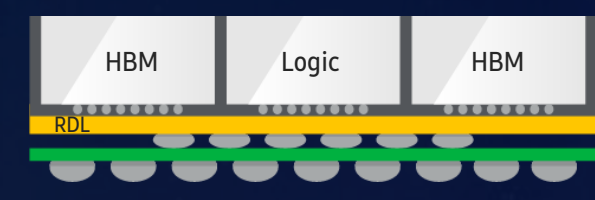


Fan-Out SiP

HPC Package



2.5D Si Interposer



RDL Interposer

Foundry Ecosystem

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



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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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