

Samsung Foundry

Investor Presentation

2024

CONTENTS

BUSINESS UPDATE

FOUNDRY MARKET OPPORTUNITIES

SAMSUNG FOUNDRY STRATEGY

KEY TAKEAWAYS

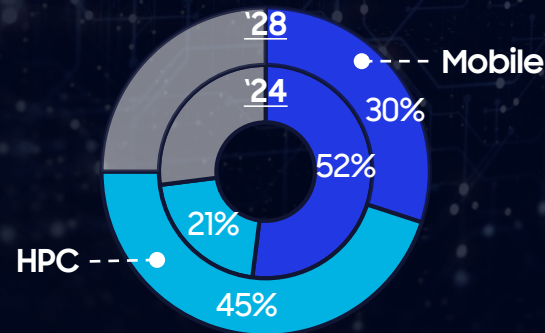
Financial Highlights

Revenue is growing continuously and Application portfolio is diversifying

Revenue Growths



Balanced Applications Portfolio



Business Milestones

Foundry
Business
Start

S1-Line Construction



2005

Foundry 1st

HKMG
* High-K Metal Gate
Mass
Production

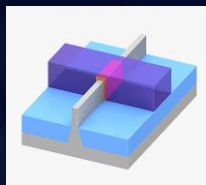
S2-Line Ramp up



2010

Foundry 1st

FinFET
Mass
Production



2015

Spin-off into
Independent
Business Unit



2017

Industry 1st
7nm EUV
Production
Start

S3-Line Ramp up



2018

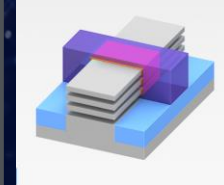
S5 Line
Production
Start



2021

World 1st

GAA
3nm
Production



2022

Global Manufacturing Sites

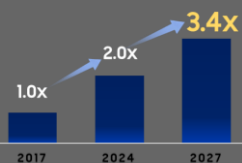


Austin Campus
Taylor Campus



Giheung Campus
Hwaseong Campus
Pyeongtaek Campus

Samsung Foundry Capacity
[12-inch equivalent wafers]



S2-Line
(12 inch)



Taylor
(12 inch)



TSP-OY
(Conventional PKG)



TSP-CA
(Advanced PKG)



Line-6
(8 inch)



S1-Line
(12 inch)



S3-Line
(12 inch)



S4-Line
(12 inch)



S5-Line
(12 inch)



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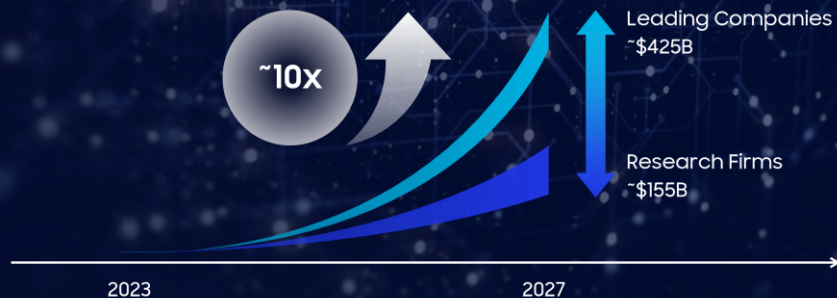
KEY TAKEAWAYS

Smart and Connected World

AI is changing how we live, work, and connect
 Foundry will be a pathfinder in realizing unforeseen technology



AI Semiconductor Market
 Consensus: accelerating



* Source : Omdia, Gartner, Deutsche Bank

Computing Trends/Paradigm Shifts

AI and accelerated computing evolve at a rapid pace



Key trends in AI and accelerated computing



Generative AI
Multimodality

The core of AI Wave from Text to Video



Government-led AI
Data sovereignty

Government driving AI for national edge



Green AI
Sustainable growth

Environmental movement opposing AI demand surge

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Business Overview

5/4/3nm

High Performance IPs
Design Methodology for HPC
Advanced PKG (3D, 2.5D)



HPC



14/8/5/4/3nm

Critical IPs for Mobile
Mobile Design Methodology

Mobile / 5G

Samsung Foundry Total Design Platform

Automotive

14/8/5nm and 130nm (8")
Automotive Qualified IPs
Design for ISO 26262/AEC-Q100
Automotive Service PKG (ASP)

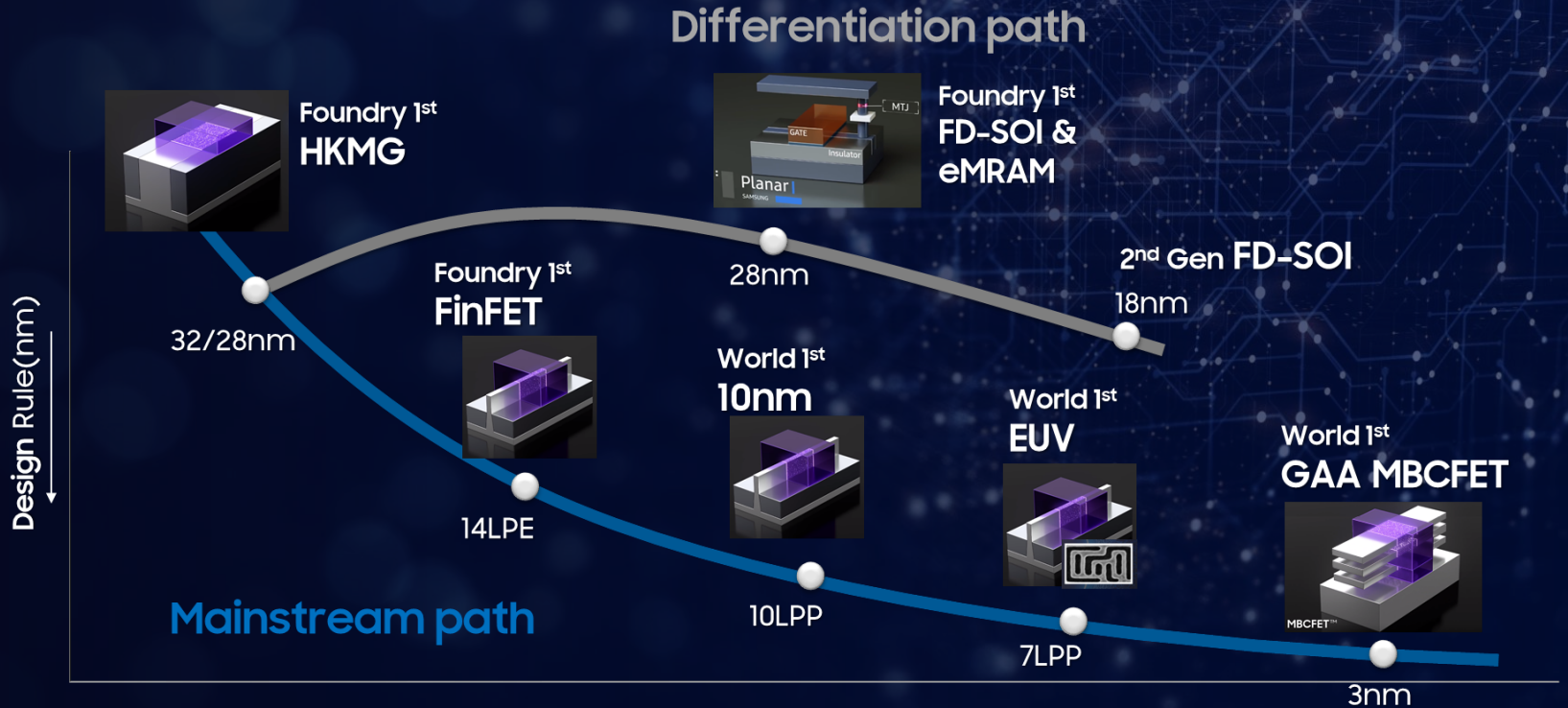


IoT

14/11/8nm
Critical IPs for IoT
Ultra Low Voltage Design Methodology
Cost & Form-factor Optimization



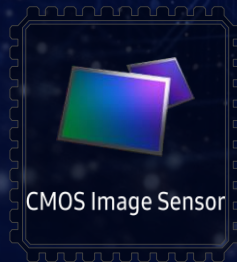
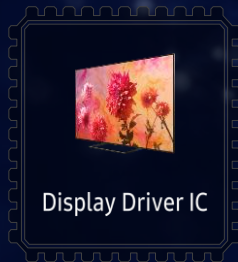
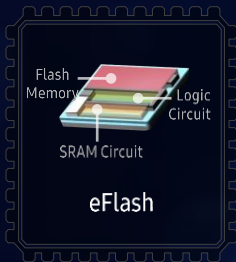
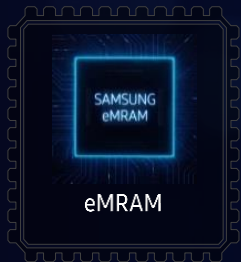
Technical Leadership



Specialty Value-Added Offerings

Portfolio Expansion from eMRAM, eFlash, Power IC,
DDI, CIS, RF to Power-discrete

Technologies extensively optimized through many years of product manufacturing

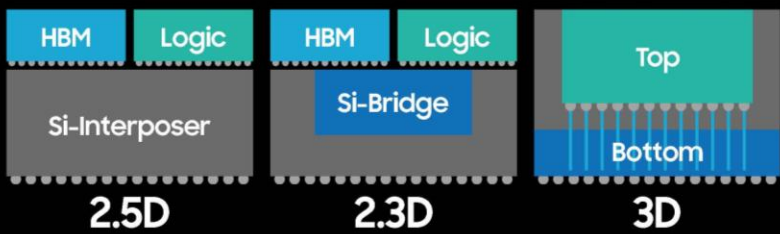


Multi-Die Integration Alliance for 2.xD/3D Solution

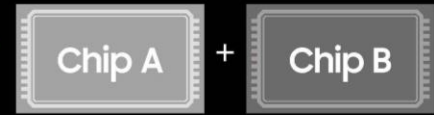
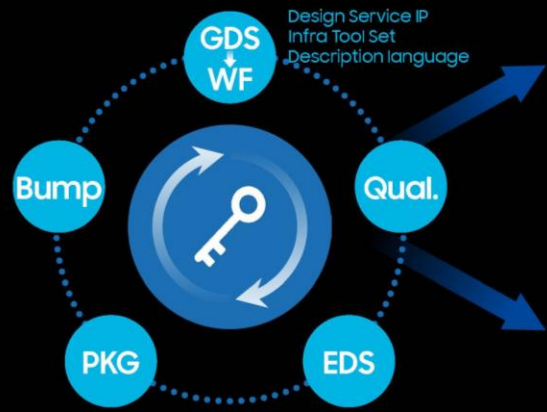
Multi-Die Integration Alliance

One-stop Turn-key

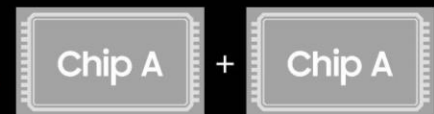
Customer Innovation



Standard



Heterogeneous Integration



Heterogeneous Integration

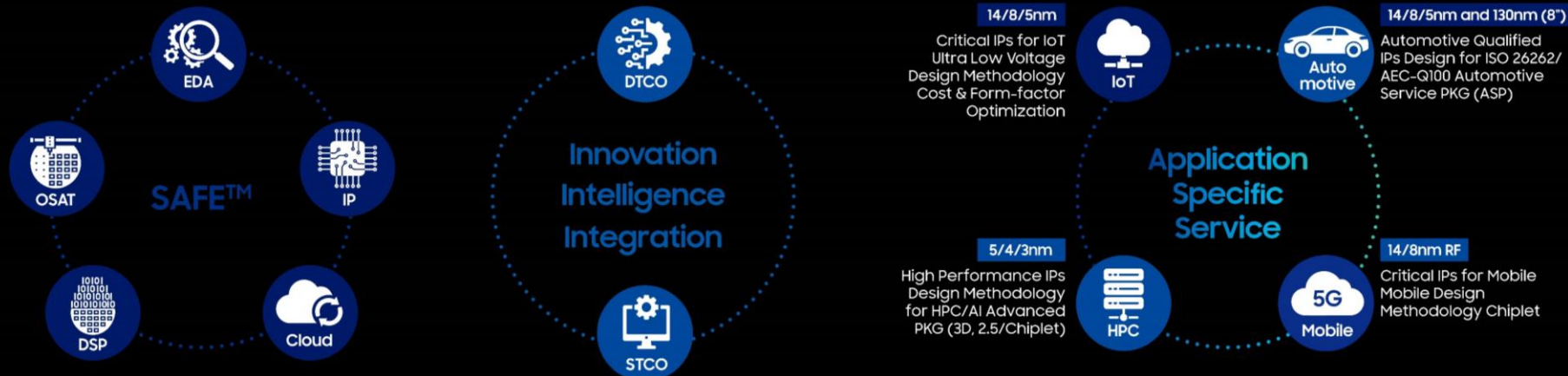
Foundry Design Ecosystem

Total Design Platform

Collaboration

Optimization

Realization



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Key Takeaways

Higher foundry opportunities in digital transformation era

Aggressive investment including expansion of global operation

Maintain firm leadership in technology, operation, and service

Enable faster time to market and growing together with customer

SAMSUNG

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