

# Samsung Foundry

Investor Presentation

2024

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BUSINESS UPDATE

FOUNDRIY MARKET OPPORTUNITIES

SAMSUNG FOUNDRIY STRATEGY

KEY TAKEAWAYS

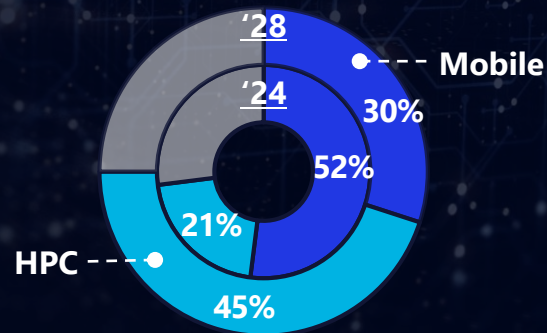
# Financial Highlights

Revenue is growing continuously and Application portfolio is diversifying

### Revenue Growths



### Balanced Applications Portfolio



# Business Milestones

Foundry  
Business  
Start

S1-Line Construction



2005

Foundry 1<sup>st</sup>

HKMG  
\* High-K Metal Gate  
Mass  
Production

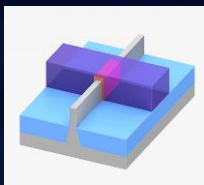
S2-Line Ramp up



2010

Foundry 1<sup>st</sup>

FinFET  
Mass  
Production



2015

Spin-off into  
Independent  
Business Unit



2017

Industry 1<sup>st</sup>  
7nm EUV  
Production  
Start

S3-Line Ramp up



2018

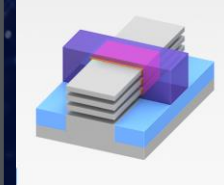
S5 Line  
Production  
Start



2021

World 1<sup>st</sup>

GAA  
3nm  
Production



2022

# Global Manufacturing Sites

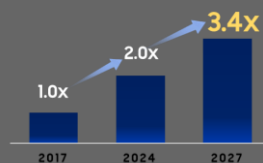


Austin Campus  
Taylor Campus



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)



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# 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)

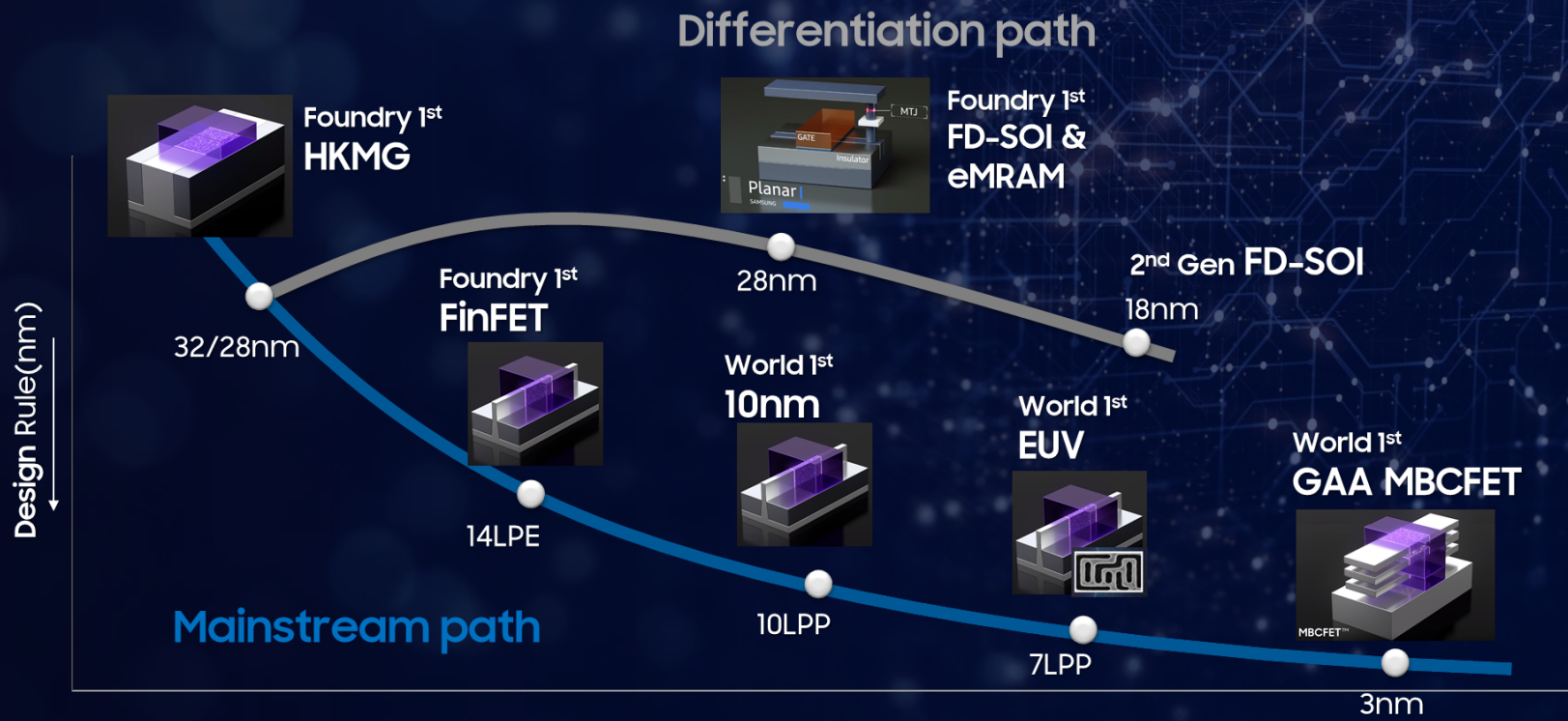


IoT

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



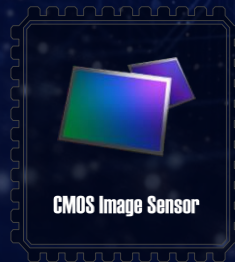
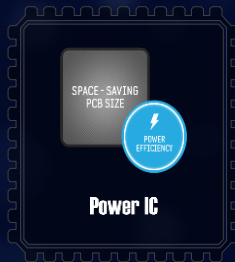
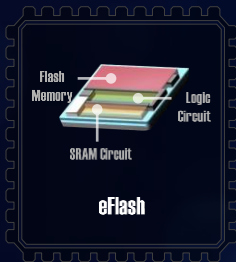
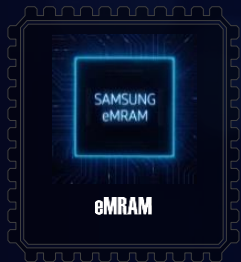
# Technical Leadership



# 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

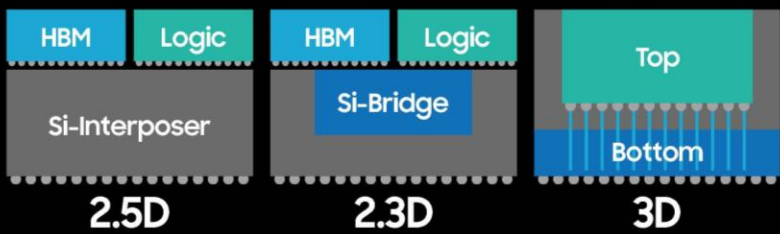


# Multi-Die Integration Alliance for 2.xD/3D Solution

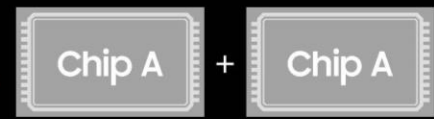
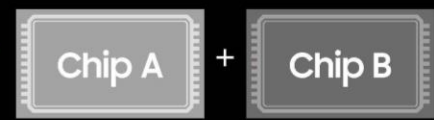
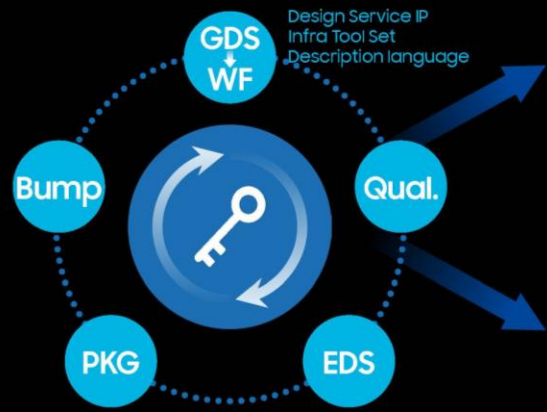
Multi-Die Integration Alliance

One-stop Turn-key

Customer Innovation



Standard



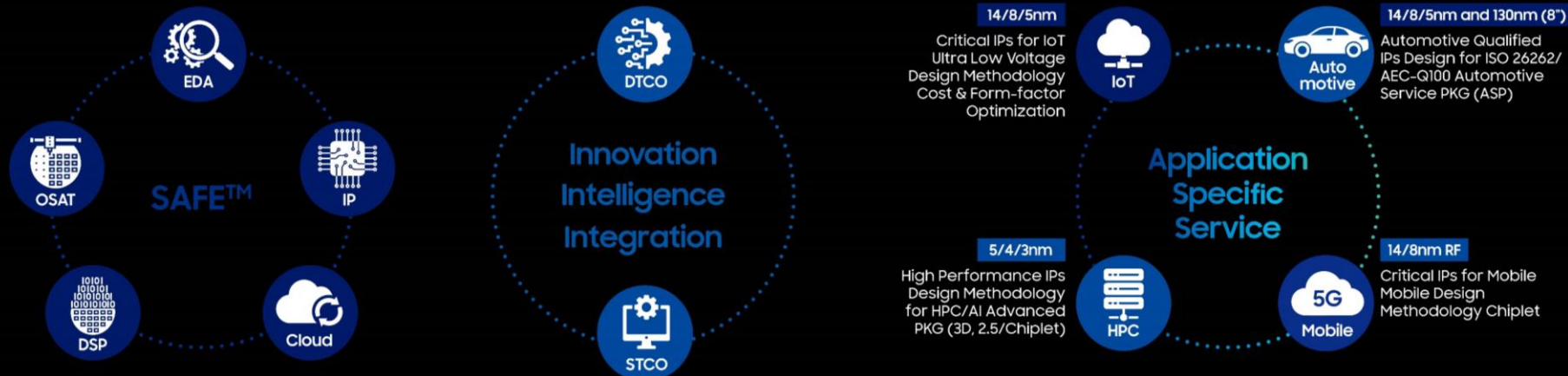
# Foundry Design Ecosystem

## 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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