

PSI Roadshow in Q3,2024

Aug. 2024

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- Information as to those factors that could cause actual results to vary can be found in PSI's Annual or Quarterly Report filed with Taiwan Stock Exchange Corporation (TWSE) and such other documents as PSI may file with, or submit to the TWSE from time to time.
- Except as required by law, we undertake no obligation to update any forward-looking statement, whether as a result of new information, future events, or otherwise.
- The numbers of the presentation are prepared under IFRS.

Agenda

- Semiconductor industry trend
- PSI Winning strategies
- Financial performance
- Key takeaways

MSCI Adds PSI To the Global Small Cap Indexes

MSCI



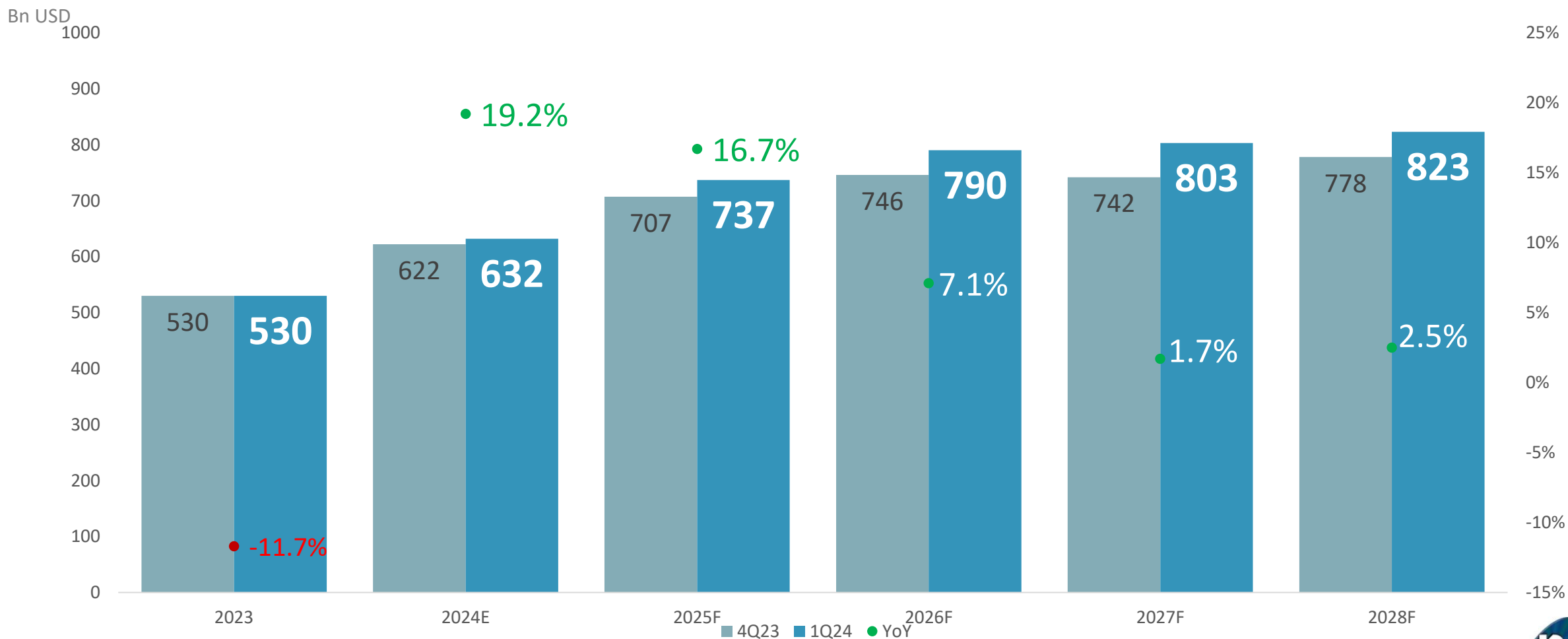
MSCI TAIWAN INDEX Additions

CHENMING ELECTRONIC
ELITE ADVANCED LASER
ERIS TECHNOLOGY
G-SHANK ENTERPRISE CO
HUANG HSIANG CONST
HWANG CHANG GENERAL CONS
JESS-LINK PRODUCTS CO
LUMOSA THERAPEUTICS
PHOENIX SILICON INTERNATIONAL
RDC SEMICONDUCTOR CO
SOLOMON TECHNOLOGY
TYC BROTHER INDUSTRIAL
UNIVERSAL MICROWAVE TECH
YEASHIN INTL DEV

Semiconductor industry trend

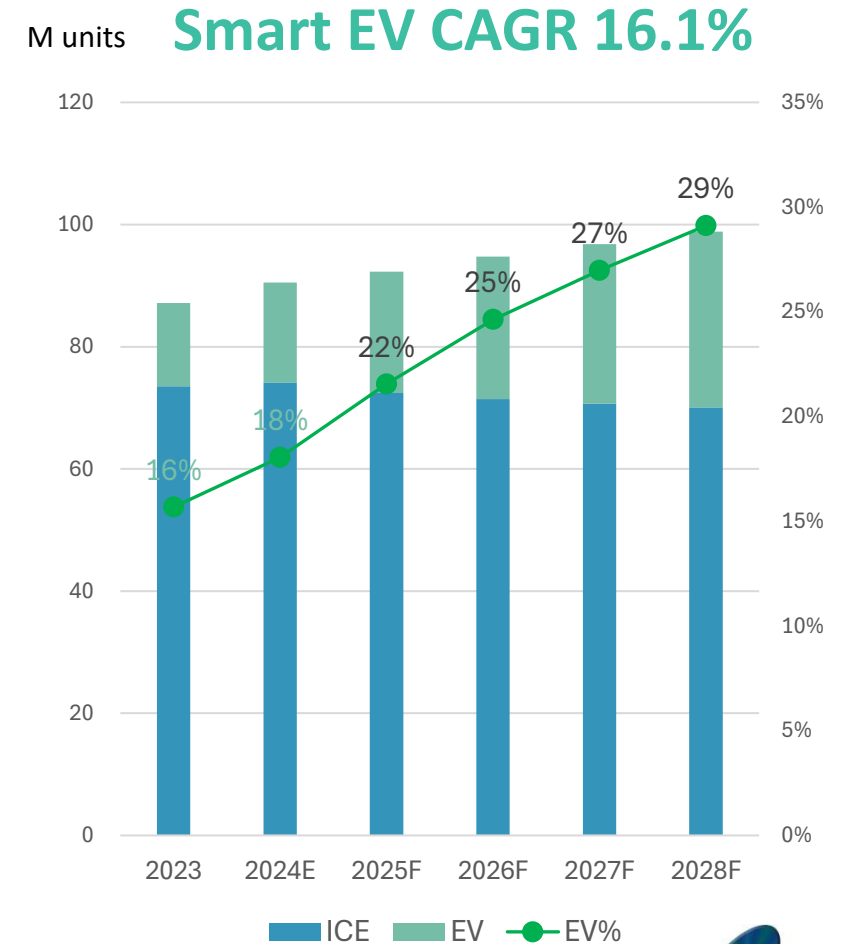
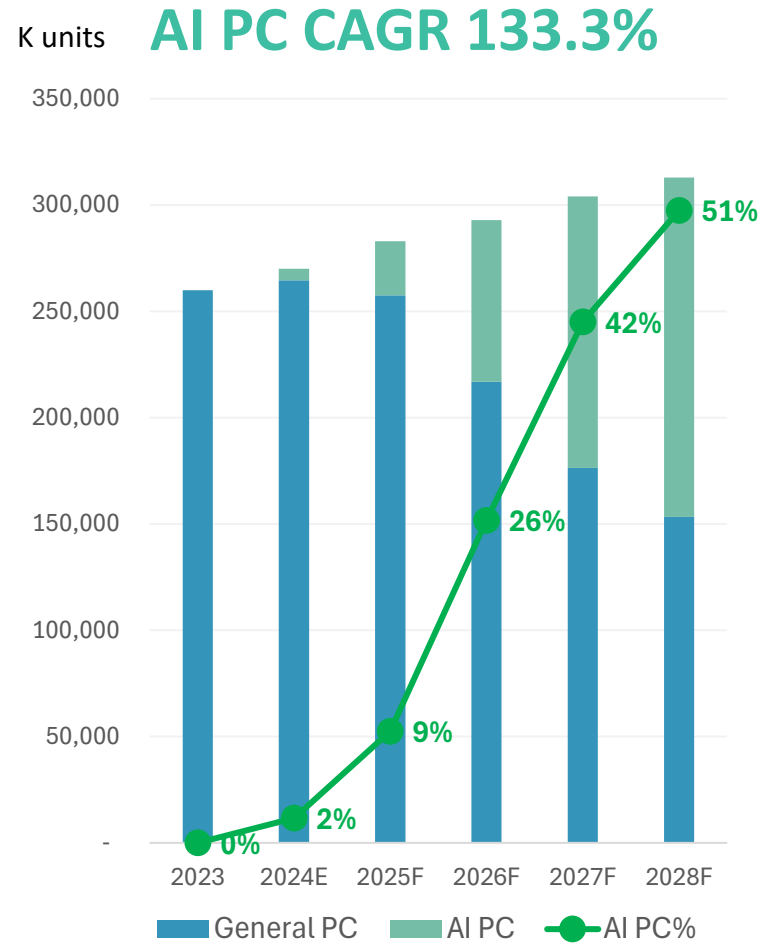
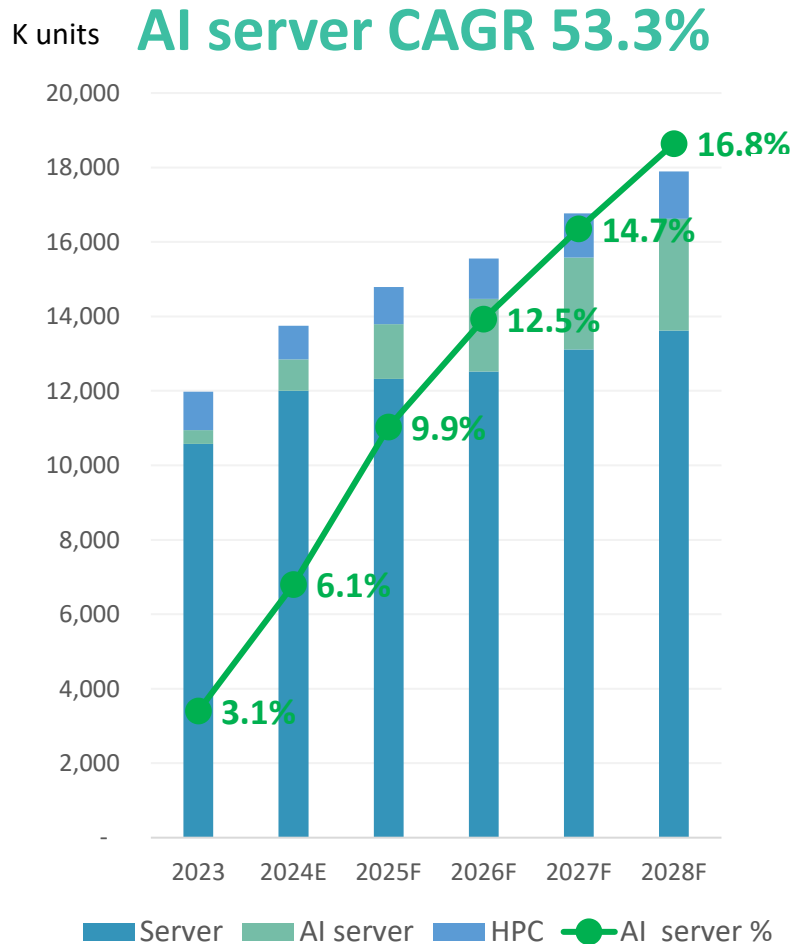
Worldwide Semiconductor Revenue FCST

- Double digit growth in 2024 & 2025



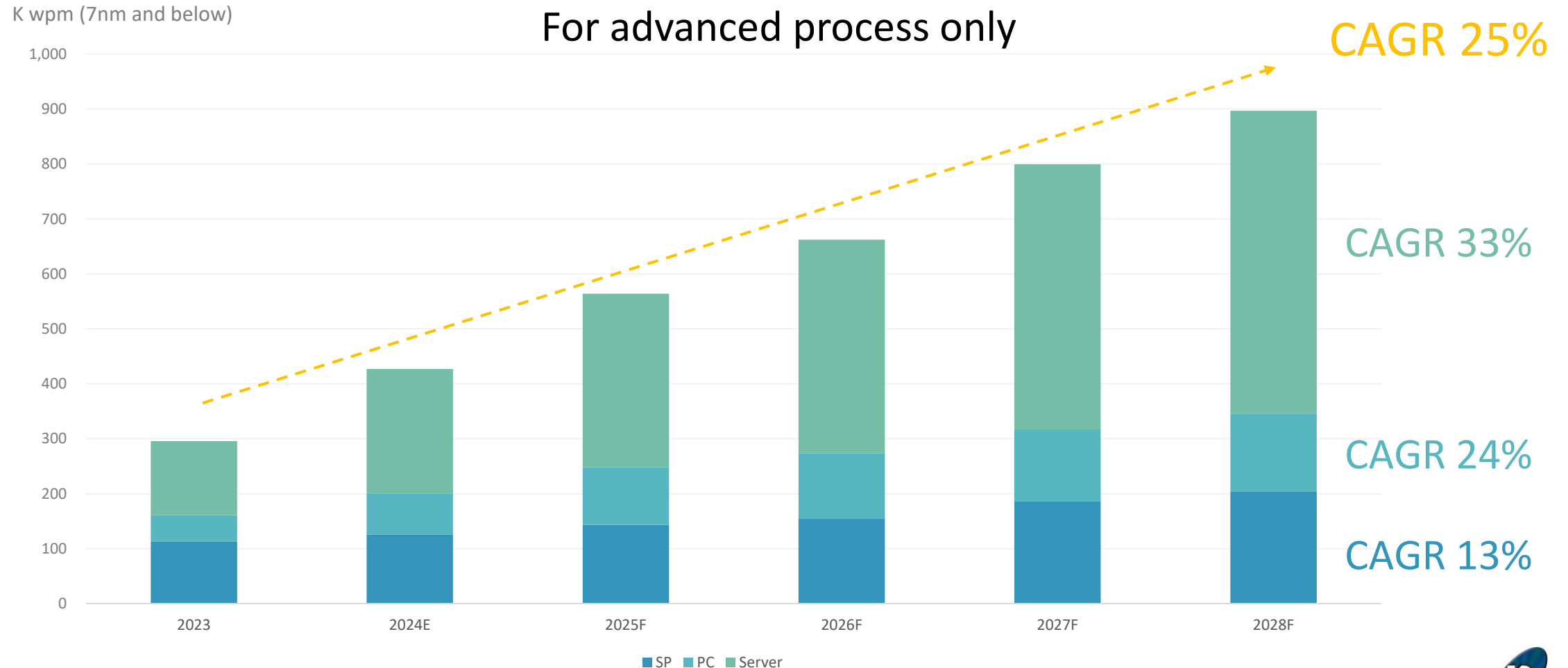
Source: Gartner, Jul. 2024

Semiconductor Mega Trend



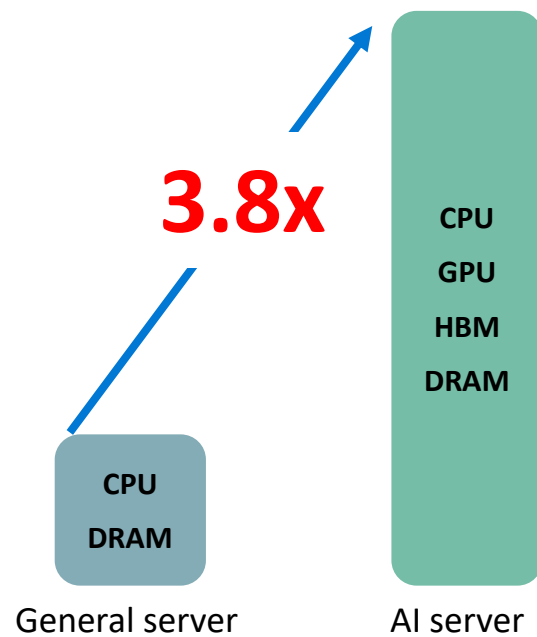
Source: research institution , PSI

3 Major Applications Require More Wafers



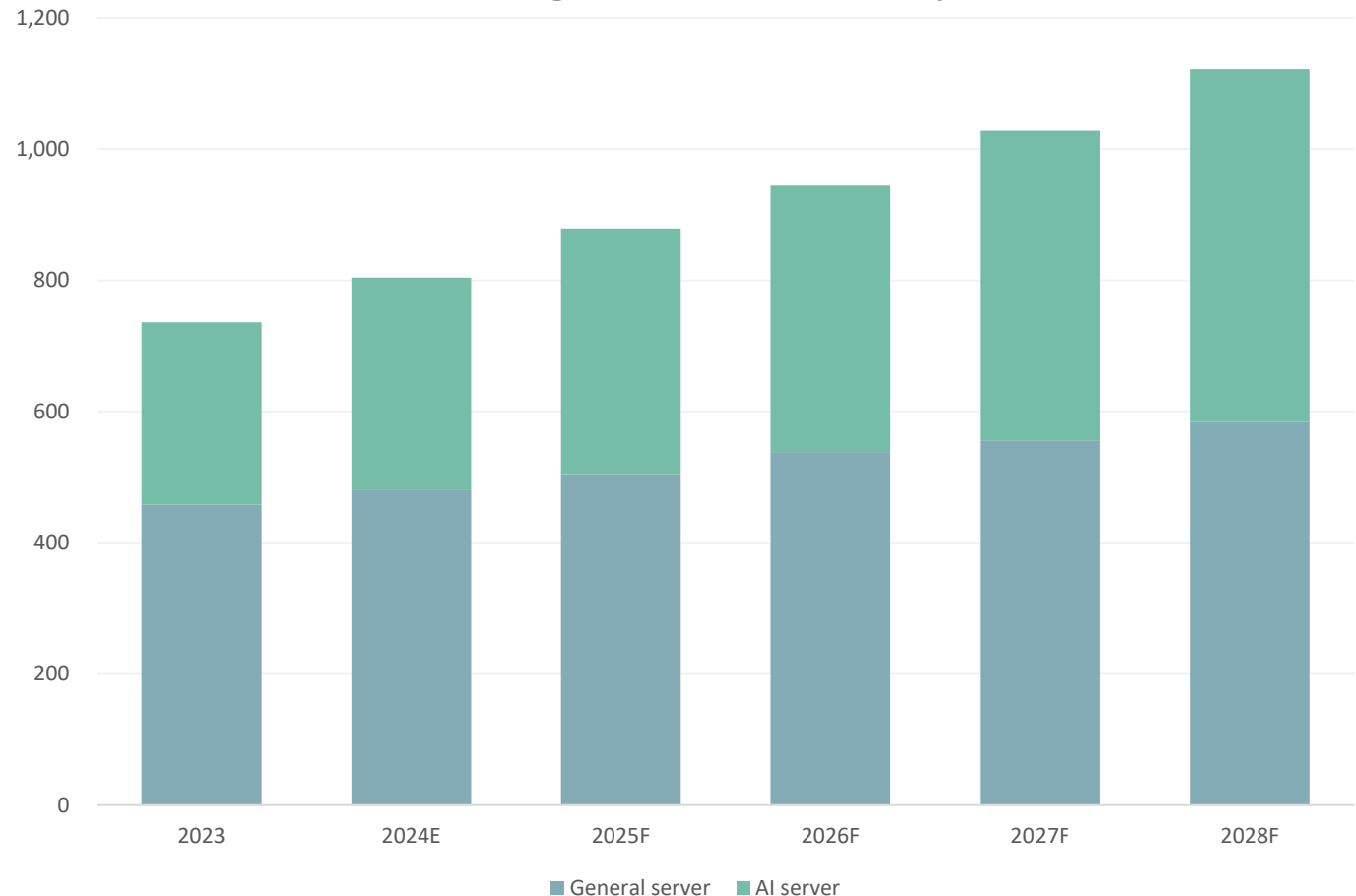
Source: Sumco, May 2024, PSI

AI Servers Consume 3.8x Leading-edge Wafer



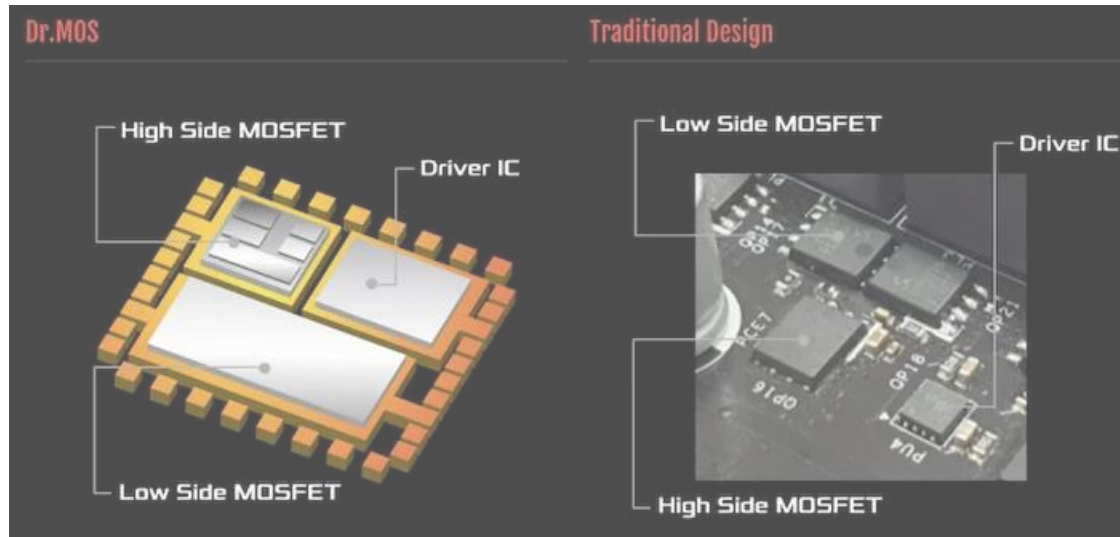
K wpm (7nm and below)

Logic and Memory

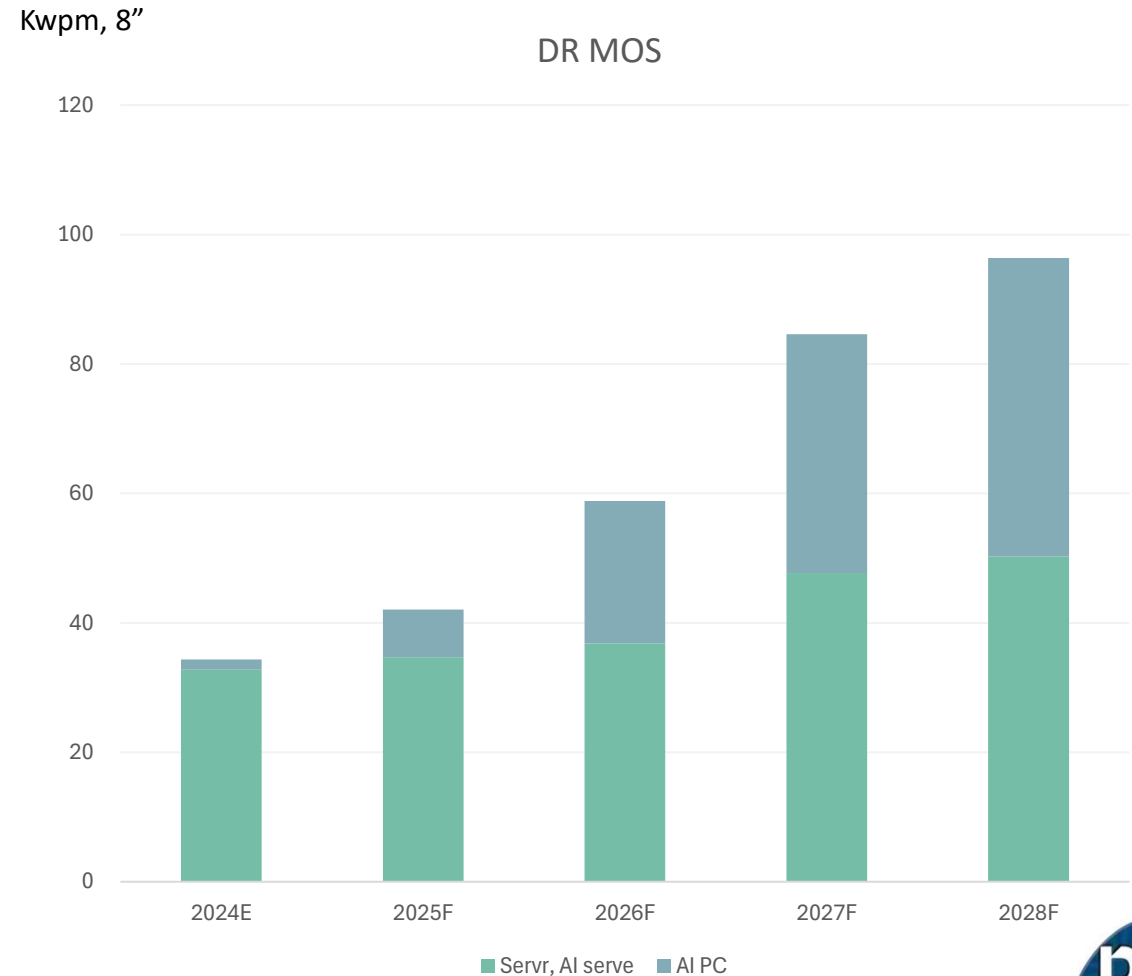


Source: Sumco, May 2024

AI Drive DRMOS Demands On Wafer Thinning



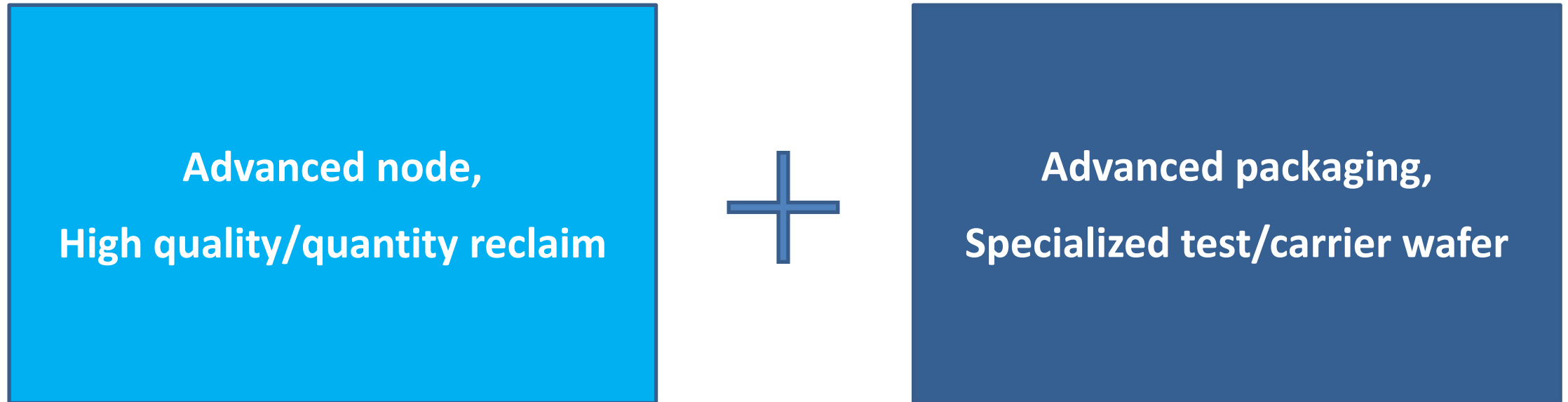
- Providing more stable power to the CPU/GPU
- Miniaturized POWER components and simplified circuits
- **PSI grabs the DRMOS thinning opportunity**



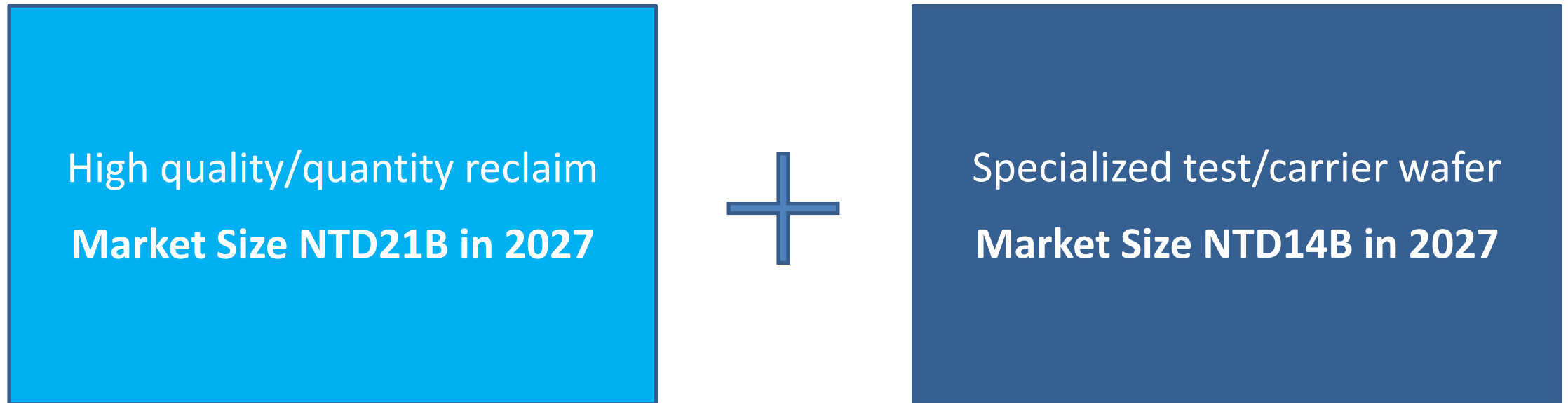
Source: PSI, all about circuit

Wafering 2.0

PSI Business Transformation - Wafering 2.0



PSI Wafering 2.0 Available Market



Total SAM NTD35B

PSI Wafering 2.0 Competitive Advantages

WW No.1 wafering capacity

Capacity

Leading in Highest-grade reclaim wafer

Technology

Fulfilling

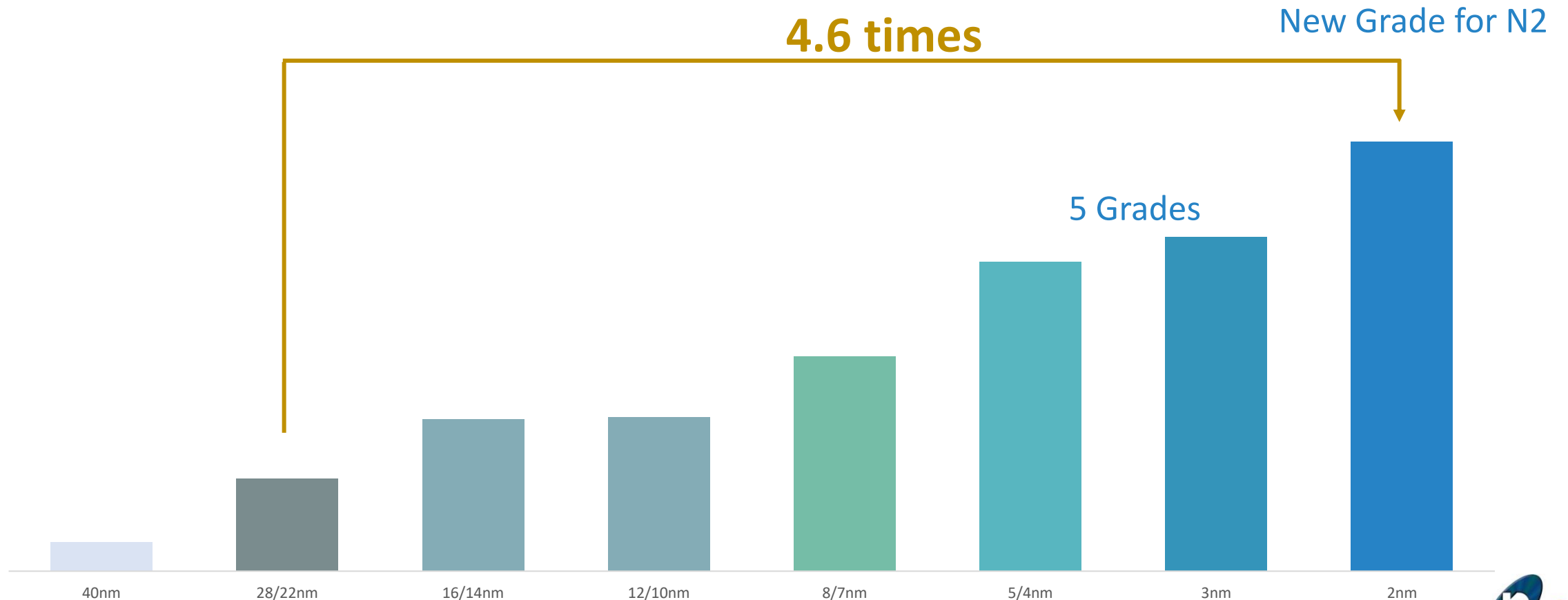
Strong partnership with key customer

Efficiency

WW No.1 Lights out Wafering Fab

Benefit Directly from Adv. Node Expansion and UTR

- PSI 70-75% from Advanced node
- PQ both increasing, higher spec reclaimed wafers emerging



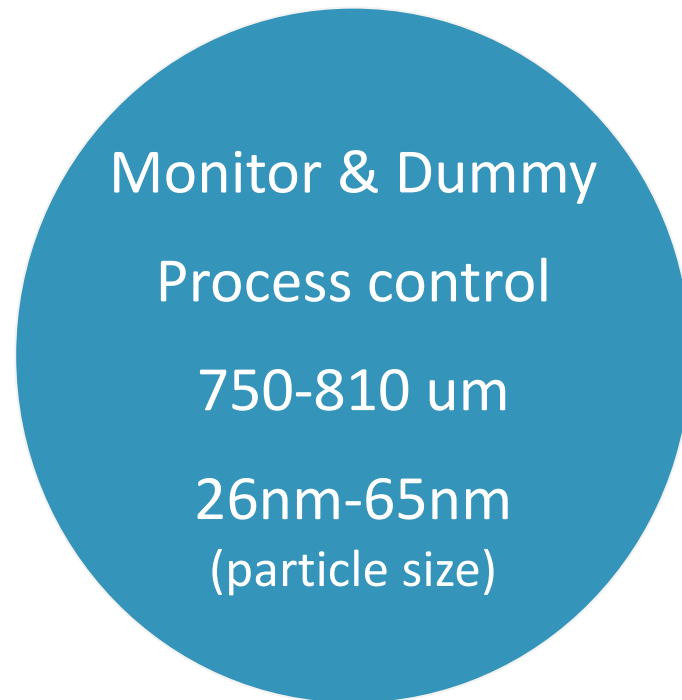
Source: PSI, company data



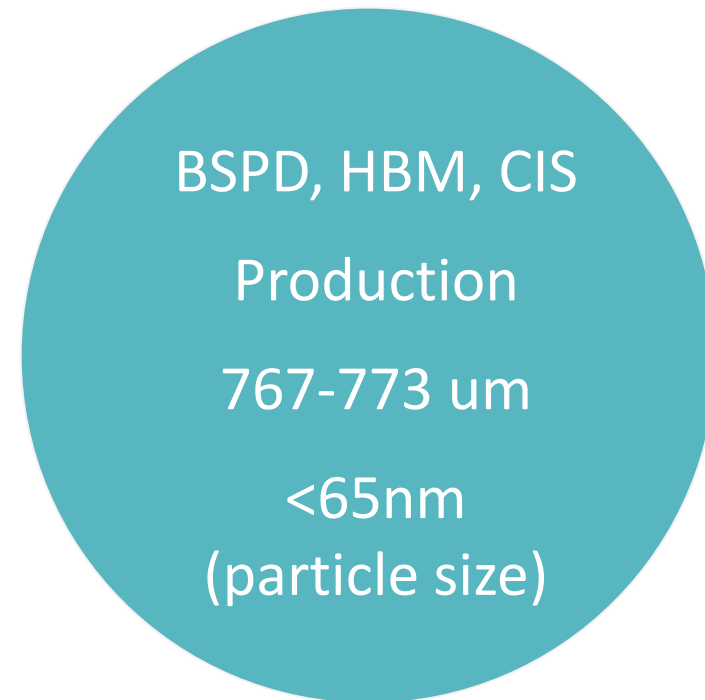
Specialty Test Wafer And Carrier

- **Multiple applications and specifications, requiring extensive customization**

Test wafer



Carrier



PSI Wafering Capacity Pull-in

510

2023

630

~~2025~~
2024

780

~~2027~~
2026



WW No.1 Lights out Wafering Fab

100

2021

40

2023

15

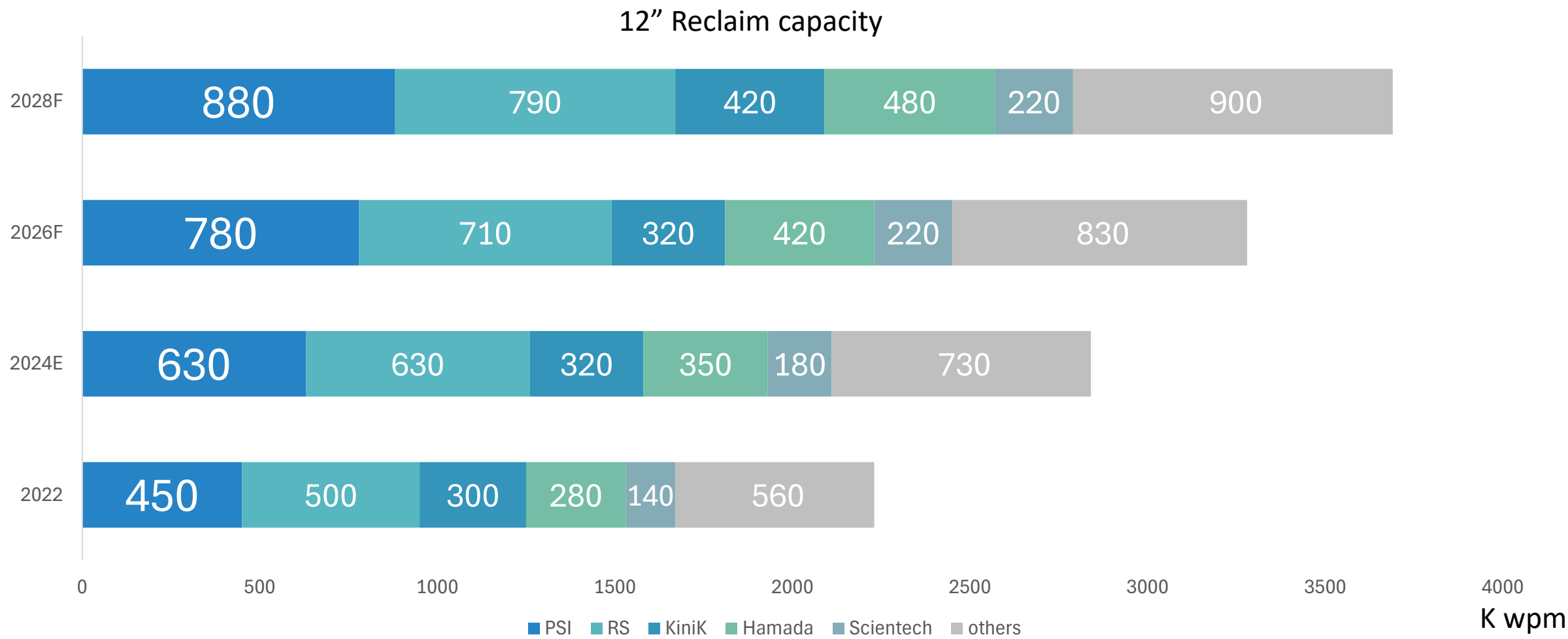
2025

5

2027



Wafering Capacity WW No.1



Source: PSI, company data



Thinning 2.0

PSI Thinning 2.0

**AI demand driving,
Ultra thin power thinning**



**SiC wafer cost downing,
SiC BGBM foundry thinning**

PSI Thinning 2.0 Available Market

**Ultra thin power thinning
SAM NTD984M in 2027**



**SiC BGBM foundry thinning
SAM NTD236M in 2027**

Total SAM NTD1,220M

PSI Thinning 2.0 Competitive Advantages

WW NO.1 thinning house capacity

Capacity

WW No.1 Taiko MP > 589k Wafer

Technology

Fulfilling

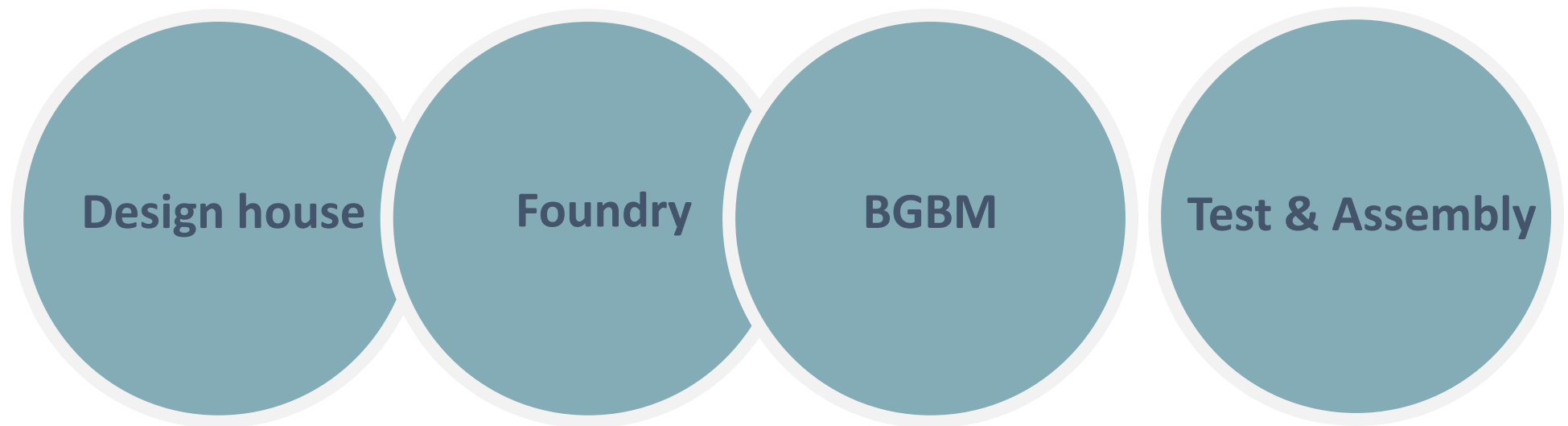
Innovation-Driven Values

Efficiency

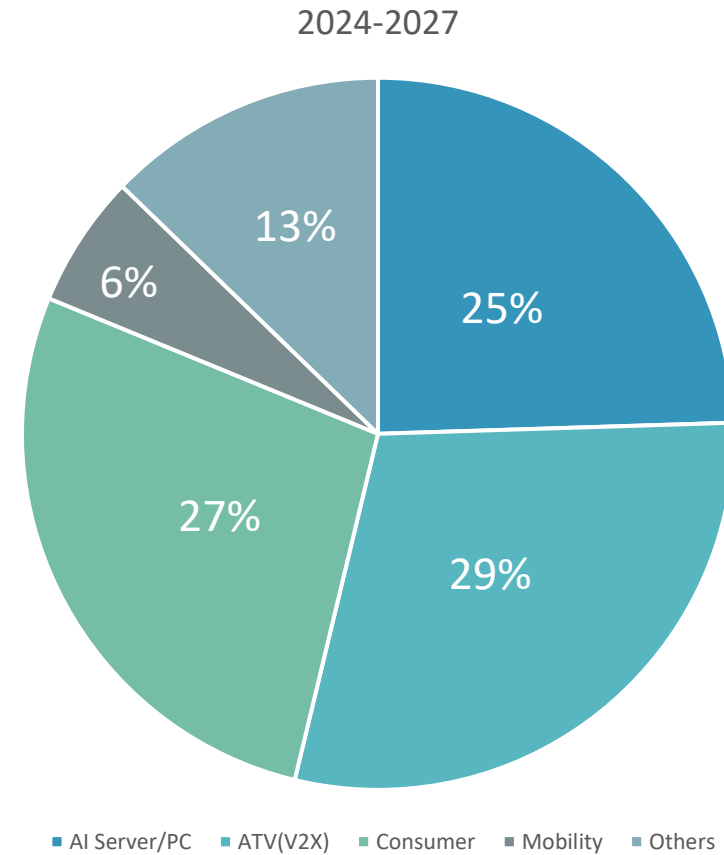
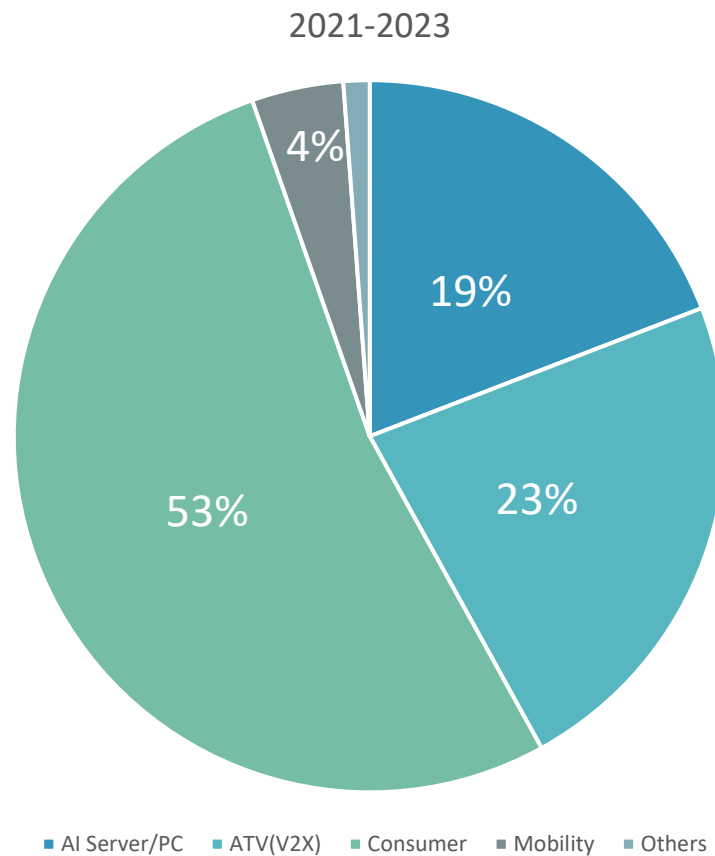
Turnkey solution: FSM – BGBM – Test

SiC Foundry Ecosystem In Taiwan

- **Require high integration across various processes**
- **SiC virtual IDM is forming in Taiwan**
- **PSI has been proven in SiC BGBM process by customers**



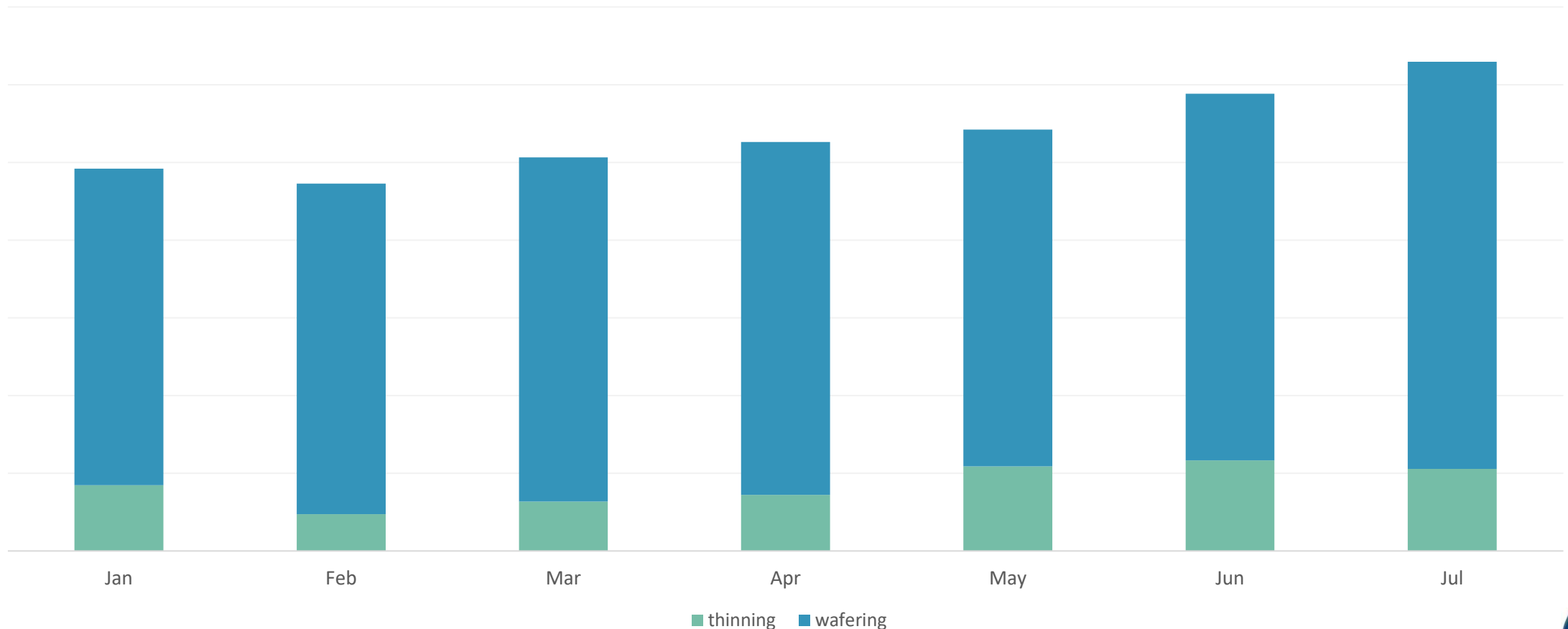
PSI Thinning Strategic Shifting To AI & ATV



Financial performance

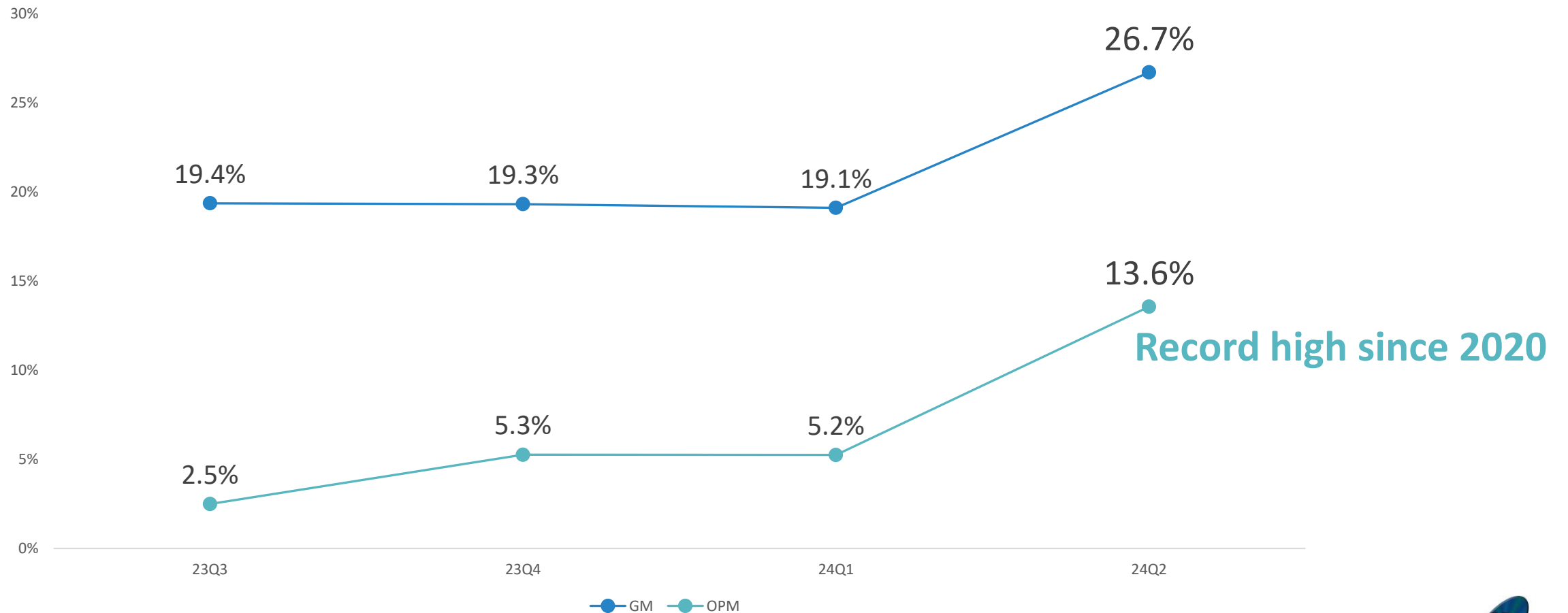
PSI YTD Revenue Trend

- Wafering : Reached a record high revenue in July, continues to drive PSI growth momentum
- Thinning: steady growth



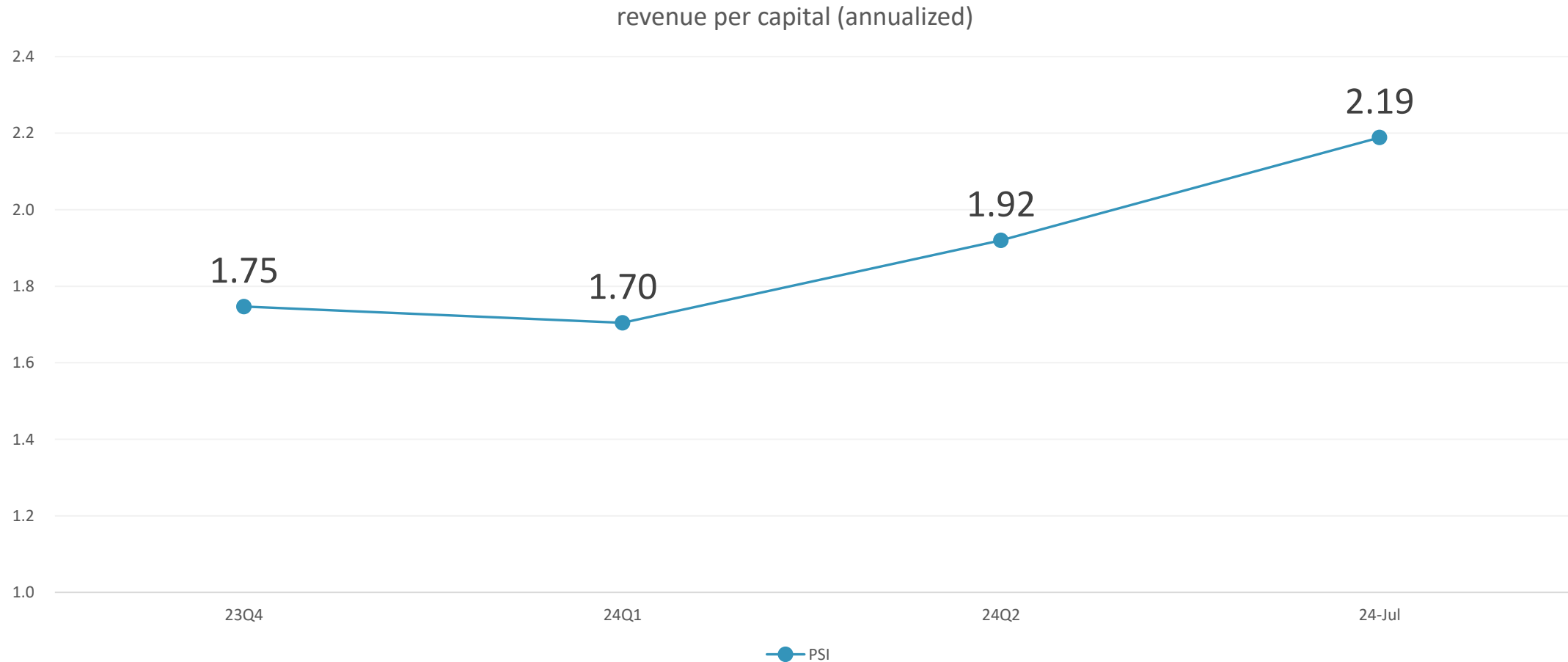
Source: PSI

Gross Margin And Operating Margin Trend



Source: PSI

Capital Efficiency Increasing



Source: PSI

Key Takeaways

- **PSI 2024 marks a transitional year, leading significant growth into 2025**
- **Reclaim business recovers fast for advanced nodes by pulling in Taichung Fab capacity**
- **Wafering 2.0 is shaping to meet new applications in carrier and test**
- **Thinning 2.0 gains momentum from AI Server/PC power management need**
- **PSI 2.0 will boost capital efficiency, enhancing competitiveness and growth**

PSI 2.0
