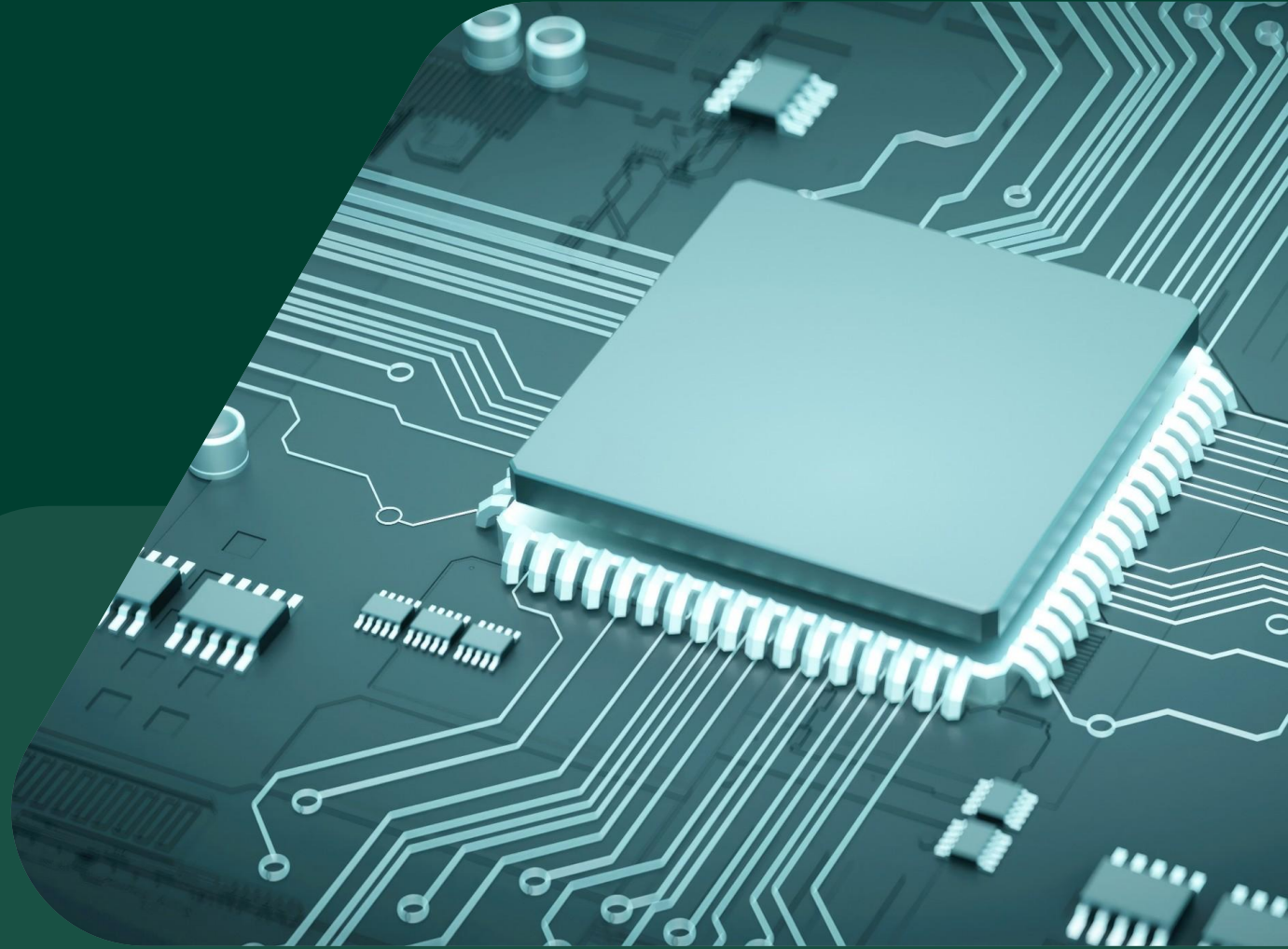


# Market Overview & Ambition 2030

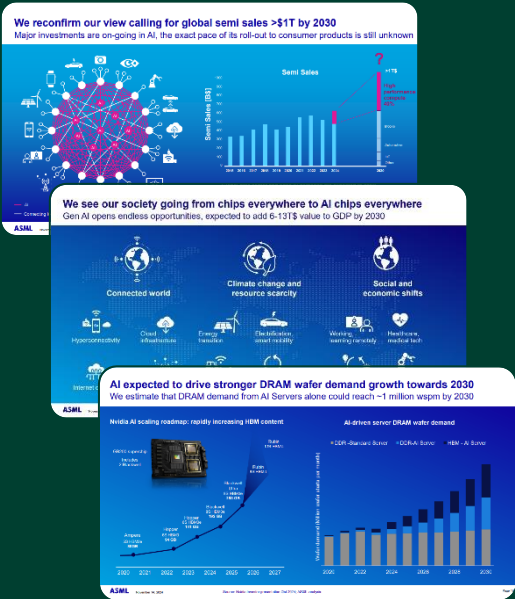
(Burkhardt Frick)



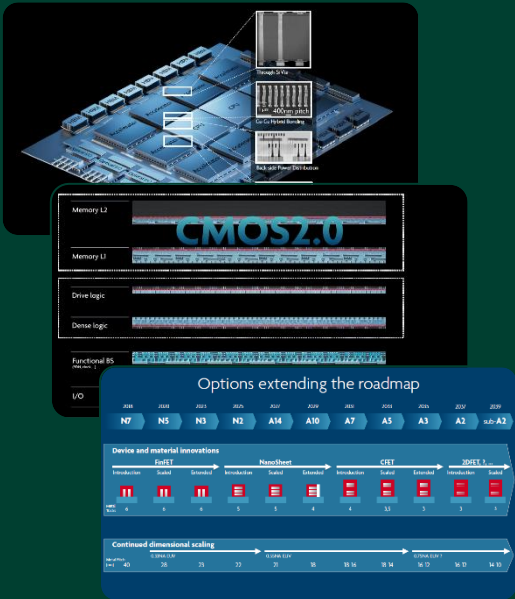
# Our strategic growth plan builds on in-depth market research and industry investigations



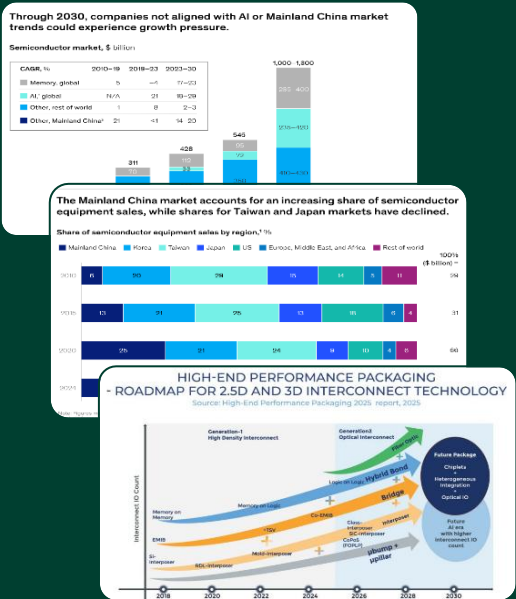
- 1
- 2
- 3
- 4
- Insights from industry peers
- Development roadmap of leading research institutes
- Studies by global consulting and research leaders
- Application & roadmap discussions with industry leaders



Source: ASML

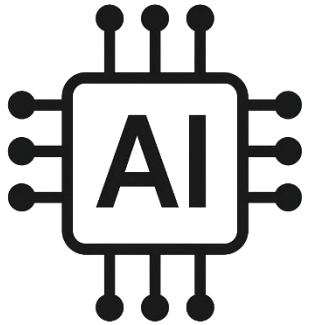


Source: imec



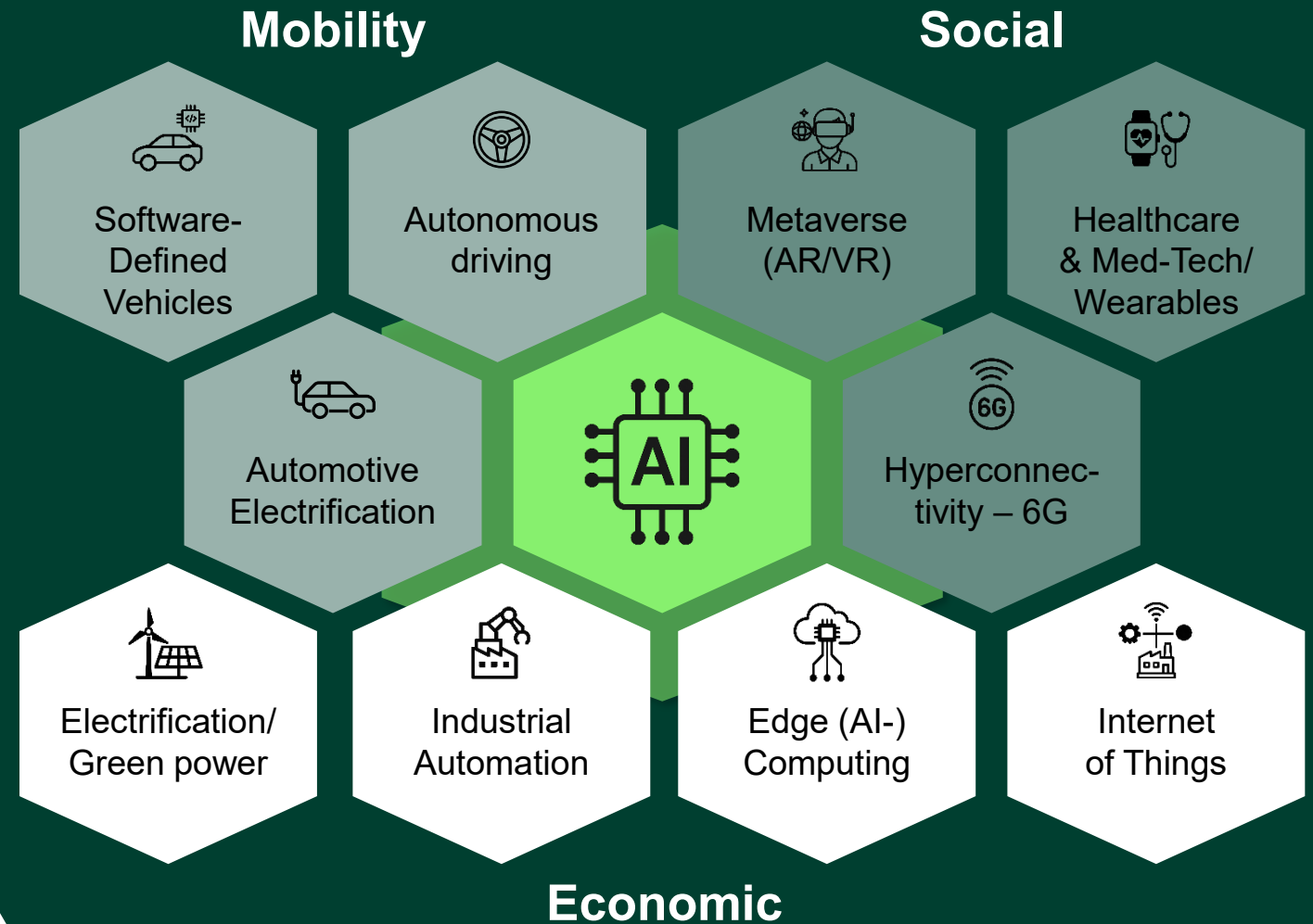
Source: McKinsey and Company, Yole





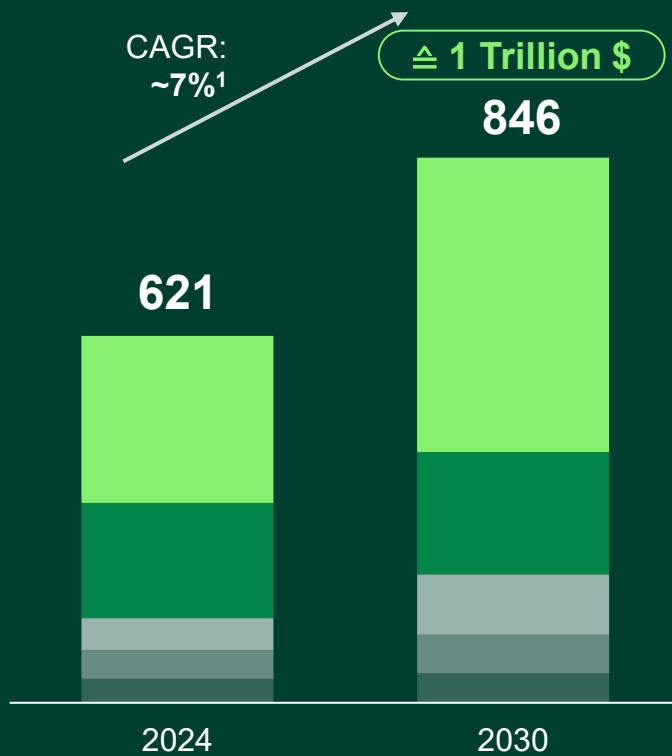
**Today's tech trends,  
accelerated by AI, are  
built on semiconductors**  
Fueling rapid growth across the  
semiconductor ecosystem












Trend Selection – not exhaustive



# AI-led secular trends are driving semiconductors toward a \$1 trillion market by 2030

## Semiconductor device revenue forecast (€bn) & key growth driver



| Market segment           | Growth-drivers   |
|--------------------------|--|
| Computing & Data Storage | <div>  <b>AI</b> (Generative-, Agentic-, Physical-AI)         </div> <div>  <b>Autonomous driving</b> </div> <div>  <b>Industrial Automation / Internet of Things</b> </div> <div>  <b>Metaverse (AR/VR)</b> </div> <div>Key growth driver</div> |
| Communications           | <div>  <b>Hyperconnectivity – 6G</b> </div>   |
| Automotive               | <div>  <b>Software-Defined Vehicles / Autonom. driving</b> </div> <div>  <b>Automotive Electrification</b> </div>  |
| Industrial               | <div>  <b>Industrial Automation / Internet of Things</b> </div> <div>  <b>Electrification / Green power generation</b> </div>   |
| Consumer                 | <div>  <b>Metaverse (AR/VR)</b> </div> <div>  <b>Healthcare Wearables</b> </div>   |

<sup>1</sup> Based on USD values

Source: SUSS Research; market size based on Yole (2025); Note: USD/EUR forward exchange rate = 1.18, USD/EUR 2024 exchange rate = 1.08, Trend Selection – not exhaustive



# Rising application requirements are blurring the lines between Frontend & Backend territories – addressed in our Business Unit strategy



## Frontend

**Node size mitigation:** Moore's Law continues with nodes shrinking toward Ångström era

### Efficient & green processes:

Growing customer demand for reduced material usage and environmentally sustainable materials

## Backend

**Advanced Packaging:** evolution & broad adoption of heterogeneous chiplet technology

**Higher accuracy & cleanliness** driving customer demands closer to frontend standards

## Photomask Solutions

Photomask Cleaning, Bake & Develop

Wafer Cleaning

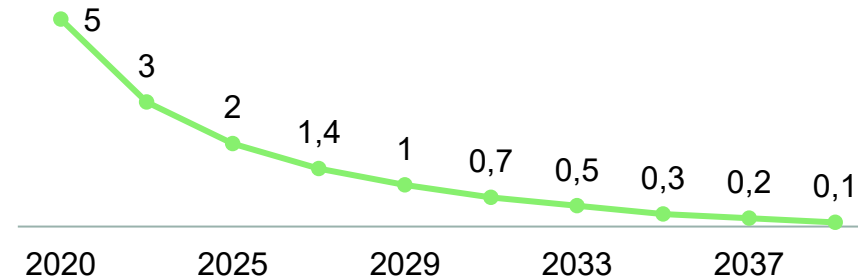
## Advanced Backend Solutions

Bonding, Coating & Imaging

# Node size mitigation | Moore's Law continues, yet decelerates, Mid-end nodes maintain high revenue share – we serve a broad spectrum

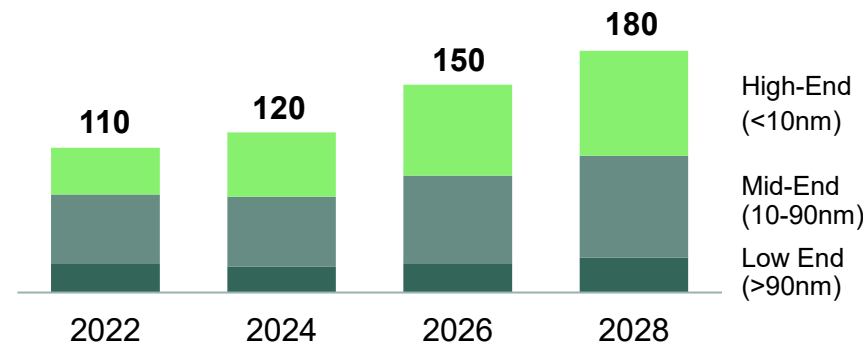
Moore's Law will continue; despite slow-down in geometrical scaling

Node size (leading-edge) in nm  
Roadmap ASML



High-End nodes drive revenue growth, Mid- & Low-End maintain high share

Foundry revenue per node (€ bn)



Source: ASML, Gartner; Note: USD/EUR forward exchange rate = 1.18

With our photomask portfolio we address the **semiconductor node landscape** – from mature to leading-edge nodes

<2 nm > Mask Track *Smart*

2–10 nm > MaskTrack X

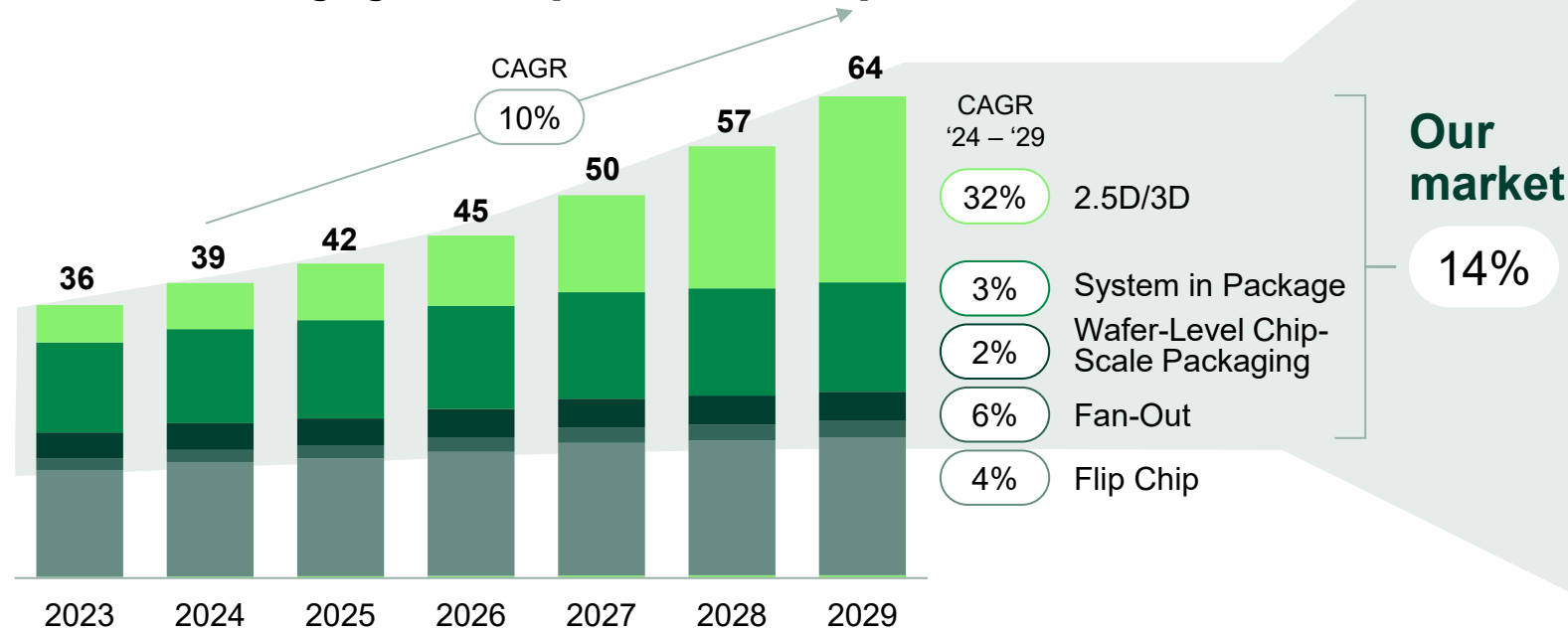
14–32 nm > MaskTrack Pro

38–90 nm > ASx 9500

# Advanced Packaging | Strong growth ahead – largely fueled by 2.5D and 3D packaging

As demand for high-performance computing rises, the **value in Advanced Packaging is shifting** toward high-end technologies

Advanced Packaging forecast [Million Wafer/Year]



XX% CAGR '24 – '29  
Source: Yole (2024)

**Interconnection of chips, wafers, and interposers** (e.g., Redistribution Layers, Through-Interposer Via, Micro Bumps)

- > Patterning with our Lithography equipment: (Coater & Developer, Exposure equipment)

**Structural support for thin elements**

- > Temporary bonding on carrier wafer with our temporary bonding/de-bonding equipment

**Mounting dies onto other dies or interposers**

- > Interposer stacking and die attach/stacking with our permanent bonding equipment (incl. Hybrid Bonding)

## 2.5/3D Chiplet Technology | SUSS well positioned to benefit from the strong momentum in 2.5D and 3D evolution

### Temporary Bonding

- **HBM:** Structural support during thinning

### Hybrid Bonding

- **HBM:** Stacking of DRAMs<sup>1</sup>
- **CPO:** Stacking of PIC & EIC<sup>1</sup>
- **SoIC:** E.g., Logic-on-Logic<sup>1</sup>

### Inkjet-/ Spin Coating

- **TIV:** Lithography
- **RDL:** Lithography<sup>1</sup>

### UV-Scanner (Exposure)

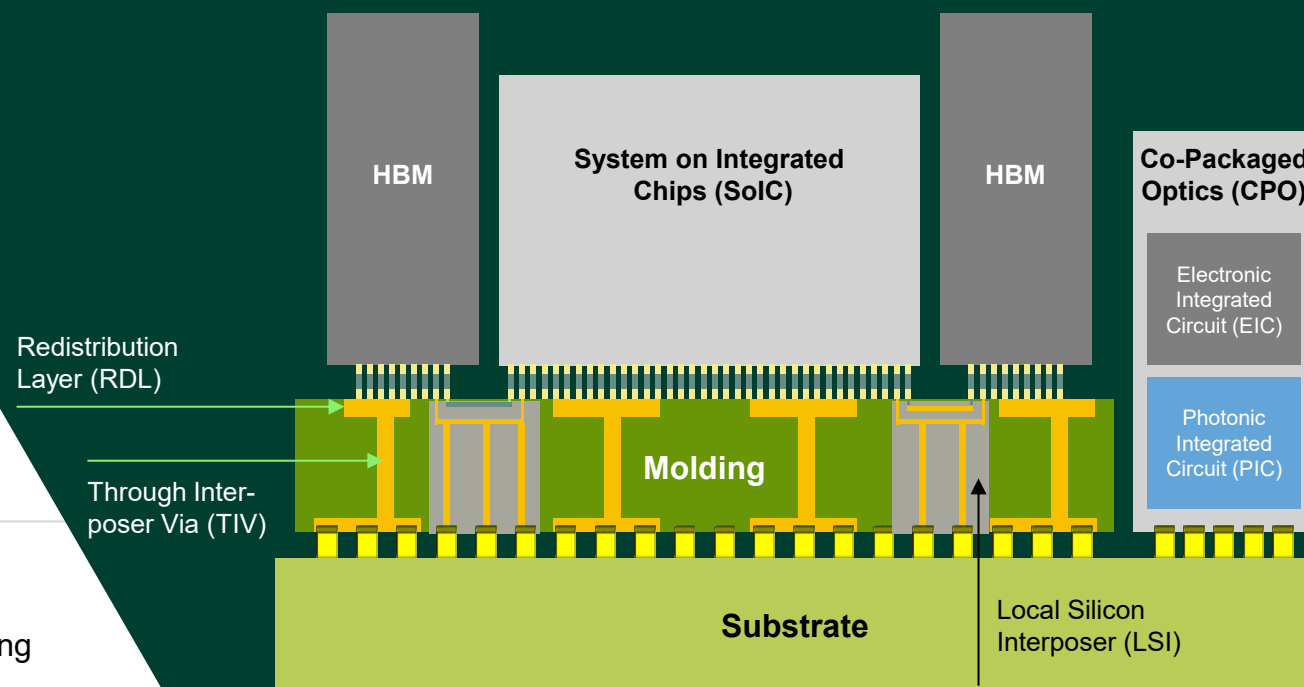
- **TIV:** Lithography
- **RDL:** Lithography<sup>1</sup>

### Photomask Cleaning (Frontend)

- **HBM:** Mask Cleaning in DRAM manufacturing
- **SoIC:** Mask Cleaning in Logic manufacturing

### Wafer Cleaning

- **HBM:** Critical material removal and final cleaning in Backend manufacturing<sup>1</sup>

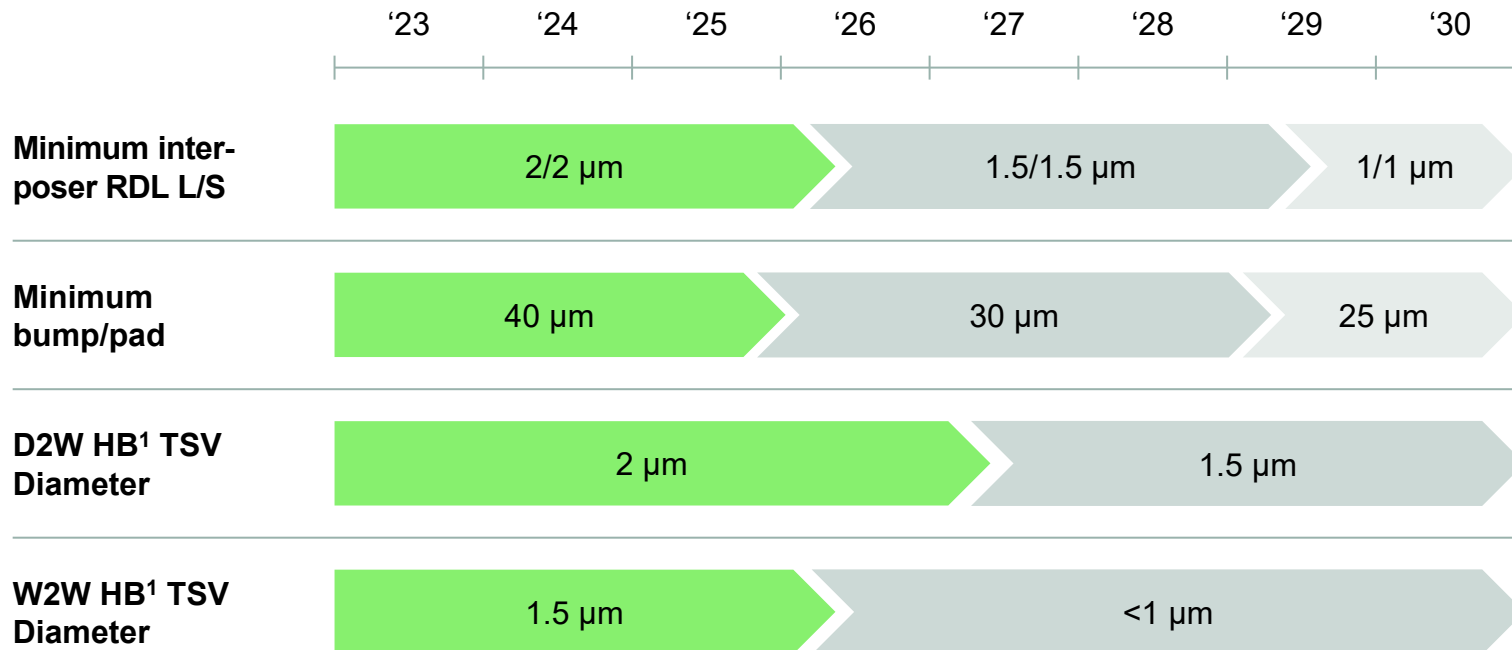


<sup>1</sup> Potential future use case    ● BU Advanced Backend Solutions    ● BU Photomask Solutions



# Higher accuracy & cleanliness in Backend | Rising performance demands push accuracy & cleanliness in Advanced Packaging toward Frontend standards

## Evolution of precision requirements in Advanced Packaging



<sup>1</sup> Hybrid Bonding | Source: Yole (2025)



### Ongoing equipment enhancements & roll-out of new processes & equipment required

- **Hybrid Bonding:** D2W/W2W Hybrid Bonder released (2025) and set for continuous upgrades
- **Temp. Bonding/De-Bonding:** Release of Next-Gen equipment in 2027 for ever-thinner wafers
- **Exposure:** Release of Next-Gen UV-Scanner in 2027 with improved Overlay accuracy & L/S



### Beyond higher cleanroom demands, enhanced wafer cleaning becomes essential

**GreenTrack:** Also addressing Advanced Packaging steps such as TSV and Plasma Activation

# Efficient & green processes | Rising demand for ESG-compliant equipment

**Zero emissions growth by 2025**, and achieving **net-zero emission** across the value chain by **2050**.

TSMC continuously **minimizes resource consumption at the source**, adjusts raw material usage parameters & technical solutions for process improvements, & collaborates with suppliers to achieve material optimization & minimization.



**42% absolute reduction in operational emissions by 2030** (vs. 2020 baseline) and net-zero emissions by 2050.



Amkor commits to reaching absolute **Scope 1 and 2 green-house gas emissions by 55% by 2033** from a **2022** base year.

**Net-zero** greenhouse gas emissions across the value chain by **2050**.



## Product carbon footprint reduction from Cradle to Grave

We work hand-in-hand with customers to reduce carbon footprint across all life-cycle stages



## Material-Efficient Processes

We have developed and keep developing processes & equipment to cut harmful material use – E.g.

- **Inkjet** saves >50% coating material,
- **Pellicle Glue Buster** cuts acid use up to 1,000x (mask cleaning)



## Utilization of Green Materials

We have developed and keep developing processes & equipment to replace harmful materials – E.g. wafer cleaning

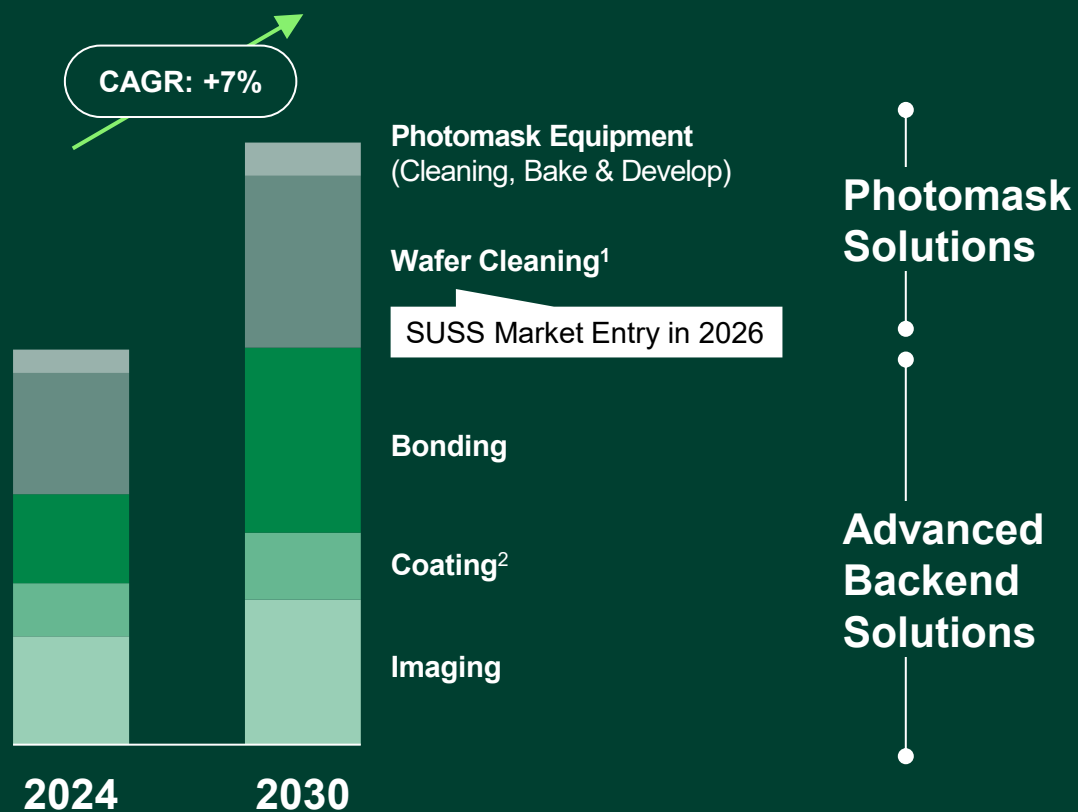
- **Replacement of harmful petroleum-based solvents** with innovative water-based fluids
- **Decomposition of organic materials** by UV-light – Leaving no harmful residues



Source: Company Webpage & Annual Reports

# Serviceable market is expected to grow by ~7% per annum through 2030

## Serviceable Available Market (Revenue in €M)



<sup>1</sup> MEMS, Power, CIS & Advanced Packaging market reflected; <sup>2</sup> Only Backend Coating market; Inkjet: Upside from expanding into additive manufacturing not reflected | Source: SUSS Research, primarily based on Yole



### Photomask Equipment

- **High-End mask market leading growth**
- Mid-End mask market growing mid-to high single digits annually



### Wafer Cleaning

- **Market entry with MEMS, Power & CMOS Image Sensors**; Expansion into Advanced Packaging with 300 mm tool planned (tool launch in 2027)
- Memory – future upside (not in market size reflected)



### Bonding

- **Temporary Bonding will continue to grow** especially driven by high demand for AI
- **Hybrid Bonding with strong growth** ahead driven by advanced Logic & Memory



### Coating

- **Advanced Packaging drives growth** in Backend Coating segment
- **Inkjet offers upside beyond traditional coating**, expanding into additive manufacturing



### Imaging

- **Advanced Packaging fuels growth**; larger reticle-size dies supports adoption of full-field projection scanning

# SUSS position in selected markets



#1

Market Leader

- ~100% Full-field projection UV-Scanning
- >80% Photomask Cleaning (High-end)
- ~65% Photomask Bake & Develop
- ~60% Mask Aligner
- ~45% Temporary Bonding / Debonding

Market share<sup>1</sup>



#2

First Follower

- ~20% Photomask Cleaning (Mid-end)
- ~15% Spin Coating (excl. Frontend)
- ~10% Permanent Bonding

Market share<sup>1</sup>



New Market Entry

- Hybrid Bonding
- Inkjet
- Wafer Cleaning

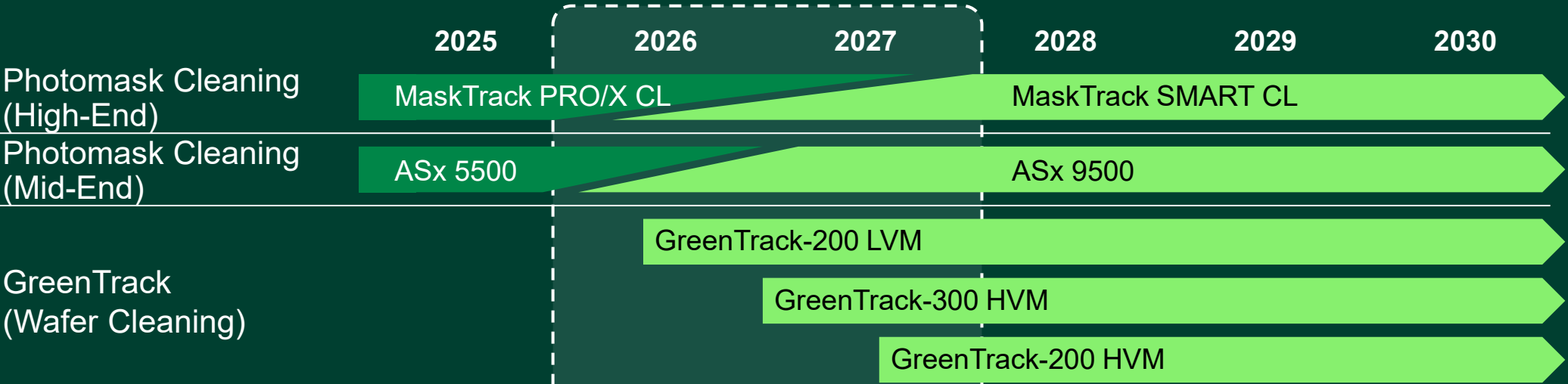
Market share<sup>1</sup>

<sup>1</sup> Source: SUSS Research, based on Yole

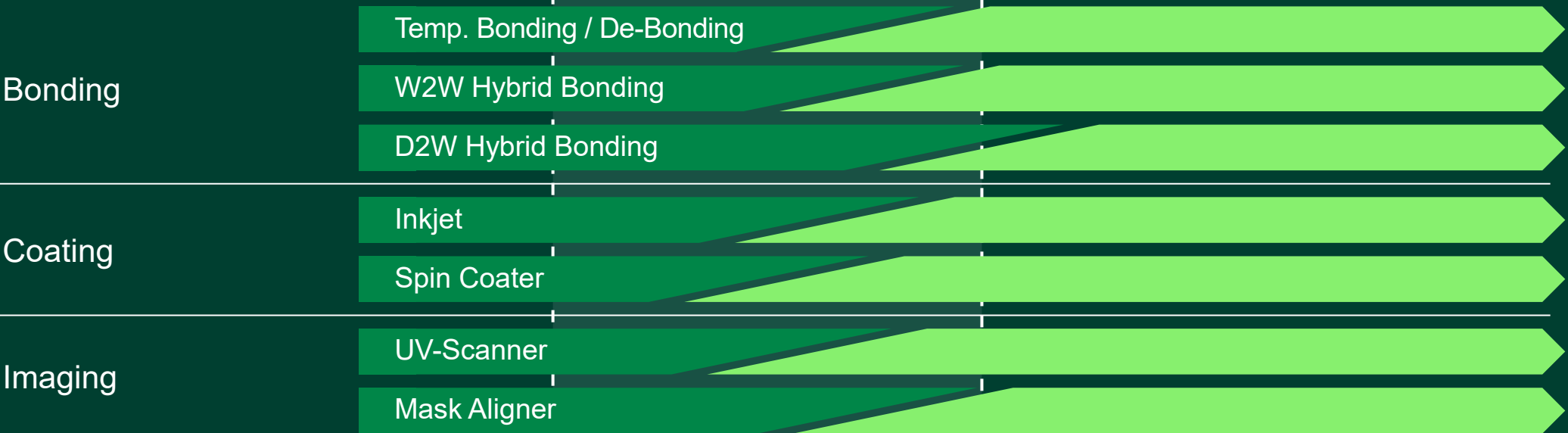
# Upcoming new product introductions – initiating next growth phase



## Photomask Solutions

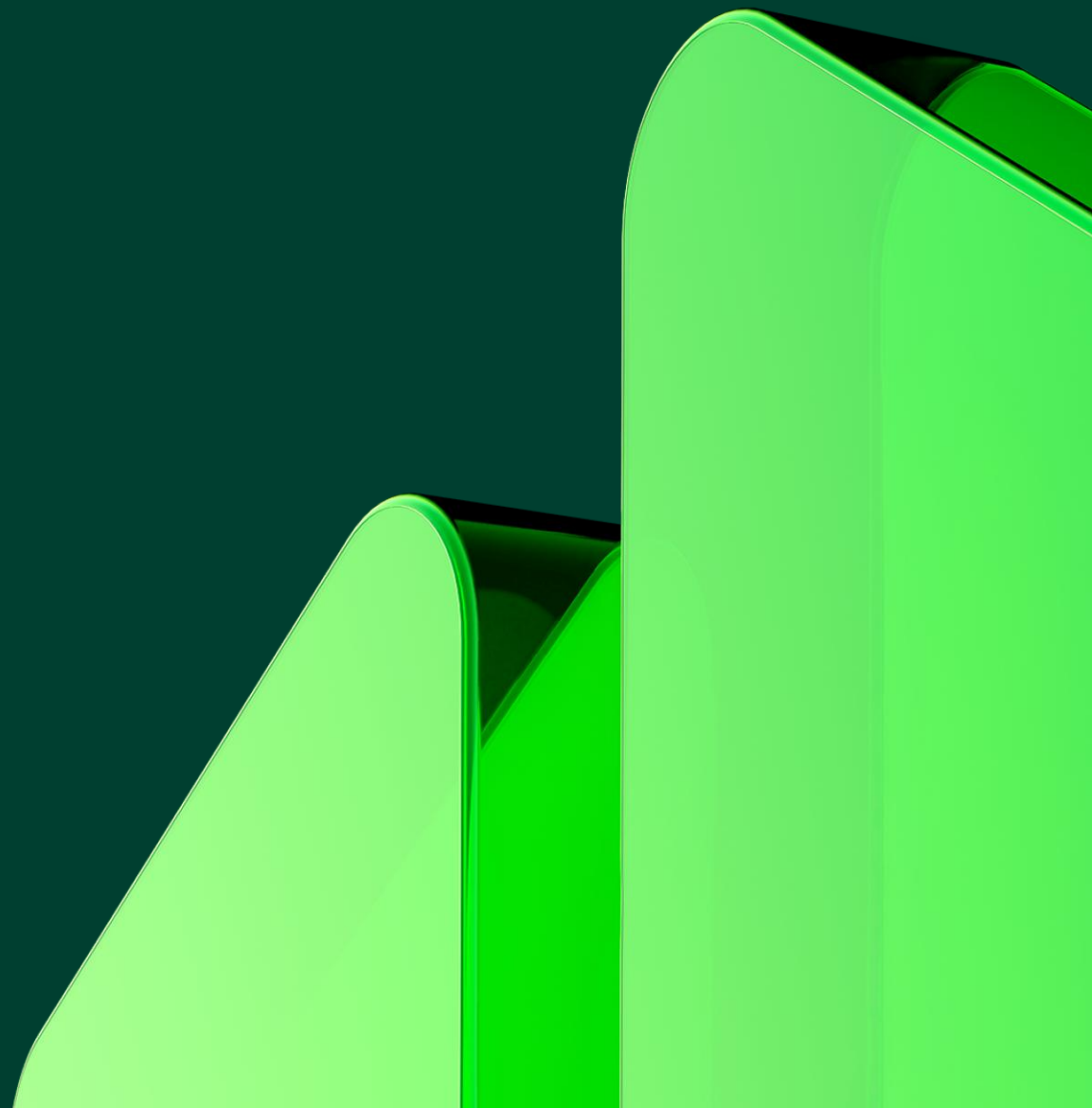


## Advanced Backend Solutions





# Growing Innovation



# SUSS long term ambitions for 2030

**€ 750 – 900 m**

Sales  
SUSS Ambition 2030

~ 9 – 13% annual sales growth  
compared to 2025e

**43 – 45%**

Gross profit margin  
SUSS Ambition 2030

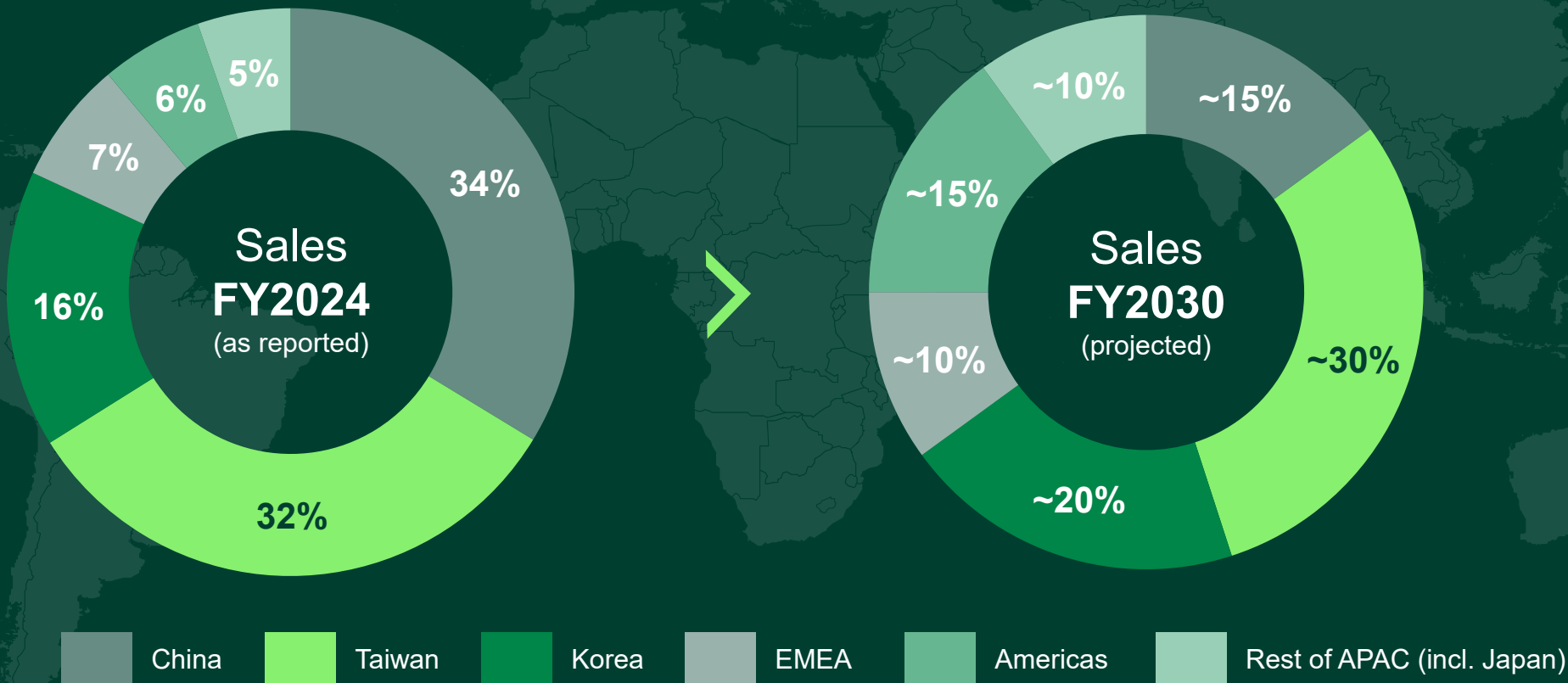
+ ~8%-points GP margin  
expansion compared to 2025e

**20 – 22%**

EBIT margin  
SUSS Ambition 2030

+ ~9%-points EBIT margin  
expansion compared to 2025e

# More diversified regional growth – with normalizing China share

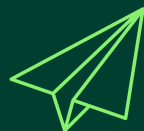


# SUSS – a valued partner in the semi ecosystem – Working alongside leading chip companies, as well as key research and industrial partners

**We have expanded our global standing** and have become a valued part of the semi ecosystem.

## Our key success factors are:

- Focusing on market leaders
- Engaging into commercial and technology partnerships
- Creating customer intimacy through joint process development and key account management
- Local presence with highly qualified customer service and application support



### Foundries and OSATs



### Integrated Device Manufacturers (IDMs)



### Technology and material partners



### Academia, consortia and institutes



<sup>1</sup> 3DIC Advanced Manufacturing Alliance

# Strategic focus on Customer Service to grow revenue and margin

We are increasing our **sales share in service business** from **18% to 25%**, which will lead to revenue growth in services to between **€190m and €225m**.



## Customer Satisfaction

Well-trained service personnel trained in our local training centers



## Proximity

A service portfolio with uptime commitments and cooperative partnership business models



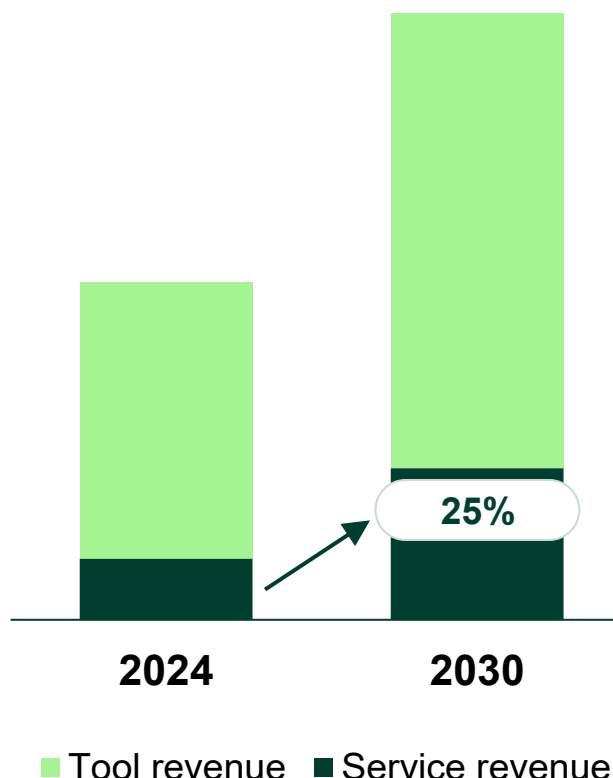
## Service Portfolio

**Customer centric service portfolio** enabling our customers to concentrate on their targets/business



## Service innovations

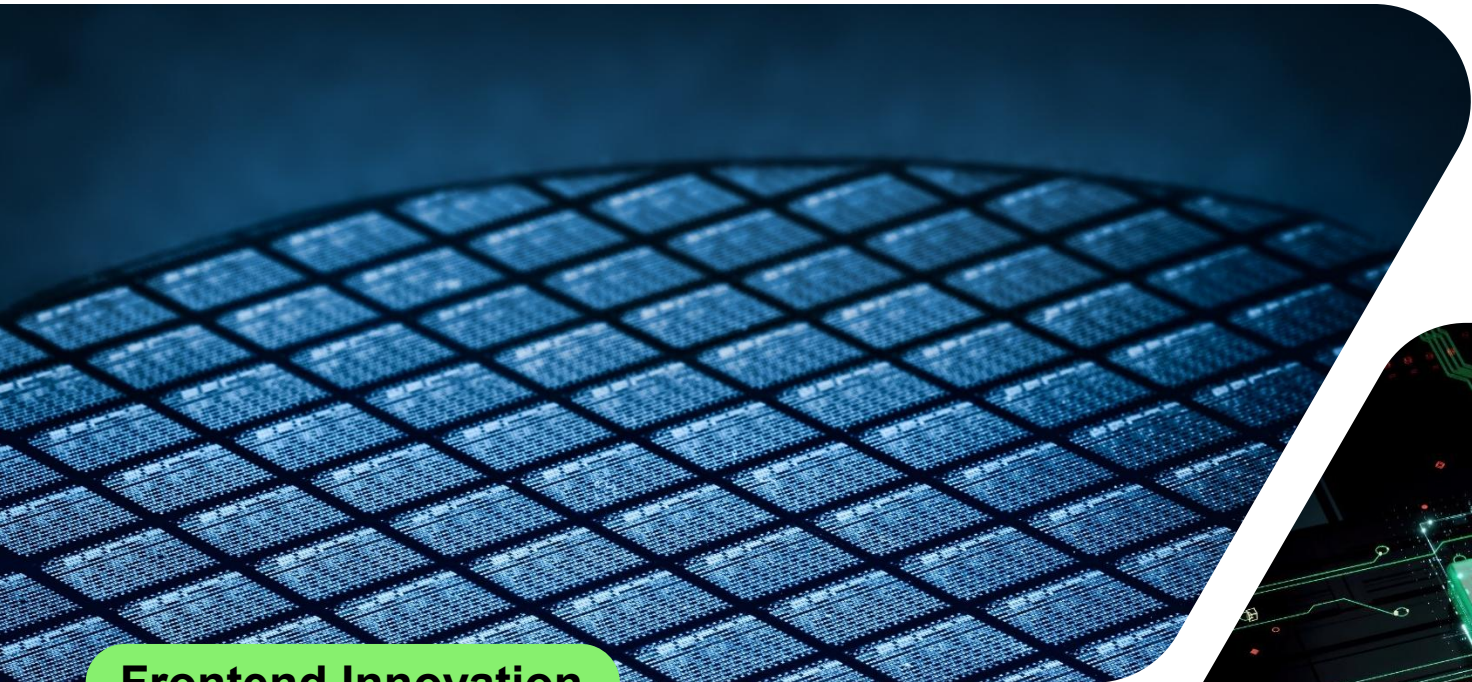
In collaboration with our customers, we develop innovative services, such as predictive maintenance.



It is our target to achieve a **Gross Profit margin** of over **50%** in our service business.



**We are fully committed to drive the next chapter of innovation and growth in Frontend (Moore's Law) and Backend (More than Moore)**

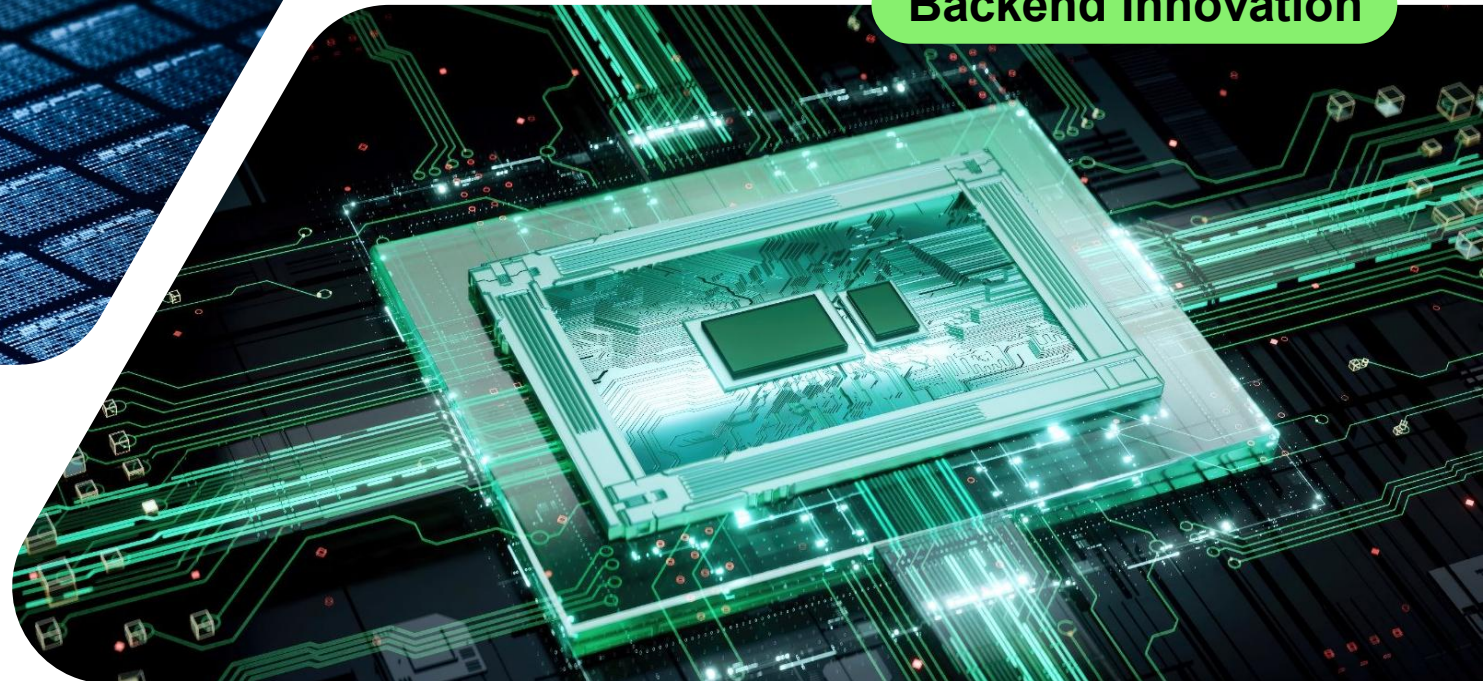


**Frontend Innovation**

Striving for the next technology node

Heterogeneous integration creates new multi-chip modules

**Backend Innovation**



# Disclaimer

The following presentations contain forward-looking statements relating to the business, financial performance and earnings of SUSS MicroTec SE and its subsidiaries and associates.

Forward-looking statements are based on current plans, estimates, projections and expectations and are therefore subject to risks and uncertainties, most of which are difficult to estimate and which in general are beyond the control of SUSS MicroTec SE. Consequently, actual developments as well as actual earnings and performance may differ materially from those which explicitly or implicitly assumed in the forward-looking statements.

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