

# Ahead of what's next

### **Annual General Meeting**

Hichem M'Saad, Chairman and CEO May 12, 2025

### **Cautionary note regarding forward-looking statements**

All matters discussed in this presentation, except for any historical data, are forward-looking statements. Forward-looking statements involve risks and uncertainties that could cause actual results to differ materially from those in the forward-looking statements. These include, but are not limited to, economic conditions and trends in the semiconductor industry generally and the timing of the industry cycles specifically, currency fluctuations, corporate transactions, financing and liquidity matters, the success of restructurings, the timing of significant orders, market acceptance of new products, competitive factors, litigation involving intellectual property, shareholders or other issues, commercial and economic disruption due to natural disasters, terrorist activity, armed conflict or political instability, changes in import/export regulations, pandemics, epidemics and other risks indicated in the Company's\* reports and financial statements. The Company assumes no obligation nor intends to update or revise any forward-looking statements to reflect future developments or circumstances.

\*ASM International N.V. including its subsidiaries is defined henceforth as the Company.



### 1 Key takeaways





### 3 Outlook 2025



4 Environmental,

governance

social and



5 People review







# Key takeaways

Despite mixed market conditions, sales have increased by 12%, making 2024 our eighth consecutive year of double-digit revenue growth. ASM has outperformed the WFE market by 2x since 2018.



**3** We continue to invest in R&D, increasing spend by 15%. Patents increased by 15% to ~3,400 in 2024.

ASM remains well-positioned to benefit from technology inflections such as GAA and next-generation memories.

5

4

ASM continues to be recognized by customers and international bodies - receiving 46 awards in 2024.

6

Continued focus on sustainability – achieved our target of 100% renewable electricity in 2024.

People are the key to the future growth of ASM. Our people strategy is accelerating to attract and grow the best talent.













# The onset of the AI era



# ASM's year in review





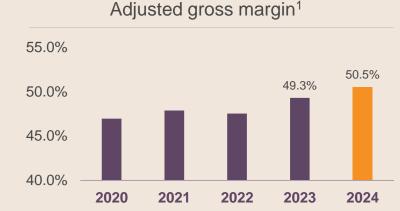
# ASM has outperformed the WFE market by 2x since 2018



# Financial performance

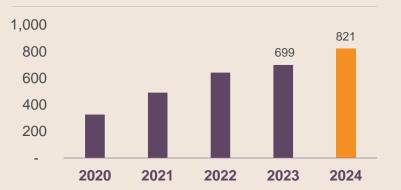
(€) In EUR million, except gross margin

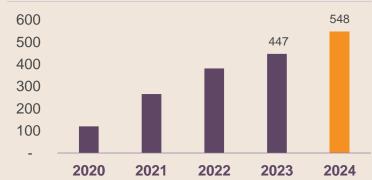






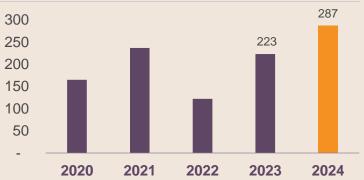
Adjusted operating profit<sup>1</sup>





Free cash flow<sup>2</sup>

Cash returned to shareholders



1 Excluding amortization of fair value adjustments from respective purchase price allocations (before tax) in 2022, 2023, and 2024 (except for gross profit: only in 2022 and 2023). 2 Excluding cash spent on acquisitions in 2022.



# Our strength in R&D

A legacy and drive for innovation

# +15%

R&D spend growth and expanded global capabilities in 2024

# High-impact patent portfolio

Top-ranked in ALD IP strength by LexisNexis<sup>®</sup> PatentSight<sup>®</sup>

~3,400 patents in 2024

# Industry's largest ALD portfolio

80+ ALD layers

powering next-gen devices and GAA transistor innovations

# 

### Global strategic R&D footprint

Continued strong collaboration with universities worldwide and early engagement with customers

# ASM awards: 46 across 30+ categories

### Customer awards



### People, community & sustainability



Shanghai Daily Corporate Social Responsibility Award – public welfare impact



China: Awarded by 51 jobs Employer Excellence of China 2024 L&D

The Climate Group RE100 Leadership Award **Best Newcomer** 









### 1 Key takeaways

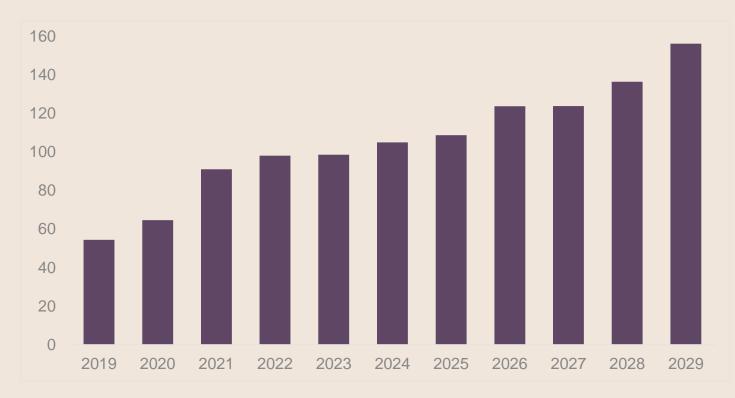


### 3 Outlook 2025

# WFE spending expected to grow



## WFE market forecast (US\$b)



### ASM is positioned to keep outgrowing the WFE market

# WFE growth driven by secular trends of AI, 6G, EV, edge computing, etc.

- Longer-term trend supported by multiyear investments
- Investment in logic/foundry are driven by the gate-all-around transition, and in memory by high-performance DRAM for HBM-related applications
- Scaling, 3D structures and new materials in advanced semiconductors require more ALD and Epi steps, playing to ASM's strengths





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# Product sustainability strategy



Energy efficient plasma sources

### Why it matters

Radio Frequency (RF) energy is used in deposition. Power delivery efficiency can significantly reduce energy usage per wafer, thereby making the deposition process more sustainable.

### **Our approach**

We developed RF power delivery technologies that minimize RF energy loss and speed up the plasma process, realizing lower energy requirements. Achieved up to 30% reduction in RF energy usage.



Smarter use of chemicals

### Why it matters

Optimizing chemical use can reduce unnecessary waste and abatement, reducing both environmentally taxing resources and emissions.

### **Our approach**

Through process innovations, our technology reduces precursor consumption by 40%.



### Why it matters

As heating is a big source of energy consumption in deposition and epitaxy processes, heating efficiency lowers costs and helps reach sustainability goals.

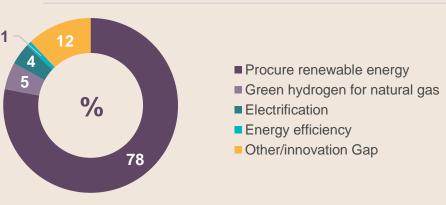
### **Our approach**

We developed temperature control innovations that reduce the energy required to reach the desired temperatures for deposition, thereby increasing efficiency. Reduced thermal energy use by up to 70%.

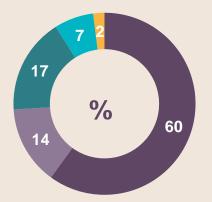
# Net-zero 2035 progress update

- Achieved 100% renewable electricity for our global operations
- Year-on-year 52% reduction in Scope 1+2 emissions
- Scope 3 emission hinges on our suppliers' transition to renewables
- Chair of Semiconductor Climate Consortium (third year)
- Green buildings designed for Arizona and Korea

### **2035 net-zero target roadmap - Scope 1&2** Contribution of interventions to mapped GHG reduction



**2035 net-zero target roadmap - Scope 3** Contribution of interventions to mapped GHG reduction



Decarbonize products
Decarbonize supply chain
Technological learning
Other/innovation gap

All other scope 3





# Making ASM a great place to be and grow

We strengthened our talent strategy to maintain competitiveness amid growing demand in STEM.

Expanding and customizing our development program offer to accelerate leadership capabilities and elevate in-house talent.

We provide relevant and accessible opportunities across our workforce. In 2024, we invested **32 hours of professional development per employee.** 

### Selected developments from 2024

### Lead Ahead

(People Managers)

 83% of managers completed LEAD Ahead levels I and II, delivered via virtual and in-person sessions

### **Develop Ahead**

### (Mid-career professionals)

- Applied learning, structured feedback and mentoring
- 91.5% satisfaction from first edition with 24 professionals investing 384 hours in total

### Women in Leadership

### (Senior women leaders)

- Practical leadership tools and cross-functional networking across global teams
- 90% satisfaction from first edition with 20 professionals investing 320 hours in total

# Conclusion







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