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, 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.
FINANCIAL HIGHLIGHTS 2017

NET SALES EUR million

2016: 598
2017: 737 (+23%)
FINANCIAL HIGHLIGHTS 2017

OPERATING RESULT
EUR million

2016: 82
2017: 113 (+38%)
FINANCIAL HIGHLIGHTS 2017

CASH FLOW BRIDGE

Net cash end '16: 378
Proceeds ASMPT share sales: 691
Dividend from ASMPT: 36
Dividend ASMII shareholders: 44
Share buybacks: -240
Net cash end '17: 837
Currency: -31
Other: -41

HIGHLIGHTS 2017
FINANCIAL HIGHLIGHTS 2017

SHAREHOLDER REMUNERATION

PROPOSED DIVIDEND €0.80

+14% FROM 2017

SIGNIFICANT DIVIDEND FOR 8 CONSECUTIVE YEARS
DIVIDEND PER SHARE (EUR)

- 2011
- 2012
- 2013
- 2014
- 2015
- 2016
- 2017
- 2018* (0.80)

* PROPOSED
Continued commitment to use excess cash for the benefit of the shareholders

Share buybacks
• 3rd consecutive €100 million program completed in August 2017
• €250 million program started in September 2017 and completed March 2018
• New €250 million program announced February 2018

Proposed capital repayment of €4.00 per share
• Using proceeds of 9% stake sale

Proposed shareholder remuneration totals more than €500 million in 2018
FINANCIAL HIGHLIGHTS 2017

CUMULATIVE CASH RETURNED TO MARKET ‘10-’18 (EUR MILLION)


Buyback convertibles  Return of capital  Dividends  Share buybacks

* Including proposed 2018 dividend, capital return of €4 per share, and planned new share buyback of €250 million
DURING 2017 WE REDUCED OUR STAKE IN ASMPT FROM 39% TO 25%

- In April 2017, ASMI sold a 5% stake in ASMPT for proceeds of approximately €245 million
- Last November, ASMI sold a 9% stake in ASMPT for proceeds of approximately €445 million
DURING 2017 WE REDUCED OUR STAKE IN ASMPT FROM 39% TO 25%

WITH THIS REDUCTION IN THE ASMPT STAKE THE MANAGEMENT BOARD AIMS TO TAKE AN IMPORTANT FURTHER STEP IN CREATING LONG TERM VALUE FOR THE COMPANY

- Next to continuous efforts in strengthening the company’s Front-end operations
- Total proceeds of nearly €700 million are used for:
  - €250 million share buyback program that started in September 2017 and was completed March 2018
  - Proposed tax efficient capital repayment of €4 per share
  - Planned new €250 million share buyback program
DURING 2017 WE REDUCED OUR STAKE IN ASMPT FROM 39% TO 25%

WITH THIS REDUCTION IN THE ASMPT STAKE THE MANAGEMENT BOARD AIMS TO TAKE AN IMPORTANT FURTHER STEP IN CREATING LONG TERM VALUE FOR THE COMPANY

MANAGEMENT BOARD REMAINS OF THE OPINION THAT, AT THIS MOMENT, A SIGNIFICANT STAKE IN ASMPT IS OF STRATEGIC VALUE TO ASMI
NON-FINANCIAL HIGHLIGHTS 2017
STRIVING FOR ZERO HARM!
NON-FINANCIAL HIGHLIGHTS 2017

STRIVING FOR ZERO HARM!

→ OUR LOWEST RECORDABLE INJURY RATE

→ CONTINUED DRIVE TOWARD ZERO HARM!
GLOBAL INJURY RATES

* Injuries requiring > first aid, restricted duty, or lost work days, rate per 100 employees
Environmental – Consumption

- Phoenix wastewater recirculation on-line February 2018
- Continuing to pursue further reduction opportunities
R&D HEADCOUNT

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NON-FINANCIAL HIGHLIGHTS 2017

PROGRESSING TOWARDS INTEGRATED REPORTING
NON-FINANCIAL HIGHLIGHTS 2017

Ground breaking of new Korean facility closer to R&D and manufacturing of key customers

Preparing for the next stage of growth

In planning stages for additional manufacturing capacity in Singapore
BUSINESS ENVIRONMENT AND ACHIEVEMENTS 2017

WAFER FAB EQUIPMENT BY DEVICE TYPE (US$ BILLION)

- 2017 WFE spending increased by 37%
- Strong growth in memory
- Logic/foundry healthy

Source: Gartner May 2018
ASM’s focus is on the deposition segment (24% of WFE in 2017)
ASM FOCUSES ON DEPOSITION EQUIPMENT

ASM IS A MARKET LEADER IN ALD

POSITIONS IN EPITAXY, PECVD AND VERTICAL FURNACE
Wafer Fab Equipment market strongly increased in 2017, driven by memory
Wafer Fab Equipment market strongly increased in 2017, driven by memory

ASM revenue grew 25% (based on US$)
- Our ALD revenue benefitted from a clear recovery of the single-wafer ALD market
- Epitaxy and PECVD revenue grew strongly
Wafer Fab Equipment market strongly increased in 2017, driven by memory

ASM revenue grew 25% (based on US$)
- Our ALD revenue benefitted from a clear recovery of the single-wafer ALD market
- Epitaxy and PECVD revenue grew strongly

Our overall penetration in 3D-NAND substantially increased

Further strengthened R&D engagements with key customers
INTEL PREFERRED QUALITY SUPPLIER (PQS) AWARD
BUSINESS ENVIRONMENT AND ACHIEVEMENTS 2017  
ALD – A KEY ENABLER OF MOORE’S LAW

Our largest product line, continuing to account for clearly more than half of total equipment sales

ASM has strongest position in logic/foundry
- Served Available Market more than doubled from 14nm/16nm to 7nm in logic/foundry

Strong focus on increasing our addressable market within single-wafer ALD

Positive overall long-term market outlook in ALD
INTREPID® ES™ INTRODUCED IN 2017

Delivers process modules for improved within wafer and wafer-to-wafer performance with high throughput.

Targeting advanced CMOS applications, gradually increasing our addressable Epi market.
Epi market
- Epi steps for logic/foundry are expected to increase in future nodes
- Epi is also used in memory

ASM
- Epi sales doubled in 2017
- Engaged with multiple customers in R&D
Expanding PECVD opportunities on the successful XP8 platform
- Maintained focus on selected applications for logic/foundry
- Increased PECVD revenue in 3D-NAND
- Smart expanded niche strategy
Continued innovation in Vertical Furnace

- Niche focus on selected customers and markets such as analog
- Expanding focus on More-than-Moore market, creating new growth opportunities
BUSINESS AGENDA AND OUTLOOK 2018
MOORE’S LAW CONTINUES TO DRIVE SEMICONDUCTORS
BUSINESS AGENDA AND OUTLOOK 2018
Semiconductor sales grew strongly >+20% in 2017, driven by high memory ASPs, and growth forecast to continue at a healthy rate in 2018

SEMICONDUCTORS SALES BY KEY APPLICATION (US$ BILLION)
PC DESKTOP & NOTEBOOK, PC ULTRAMOBILE CLAMSHELL, PC MOBILE HYBRID, TABLET

Source: Gartner April 2018

CAGR 2017-2022
- Tablet: -3%
- PC Mobile Hybrid: +9%
- PC Ultramobile Clamshell: +5%
- PC Desktop & Notebook: -6%
Semiconductor drivers are mobile devices, but long term growth rate is slowing.
BUSINESS AGENDA AND OUTLOOK 2018

New semi growth drivers are solid state drives, servers, automotive and industrial

SEMICONDUCTORS SALES BY KEY APPLICATION (US$ BILLION)
SOLID STATE DRIVES, AUTOMOTIVE, INDUSTRIAL ELECTRONICS, SERVERS

Source: Gartner April 2018
WAFER FAB EQUIPMENT BY TECHNOLOGY NODE (US$ BILLION)

Source: Gartner, May 2018
INDUSTRY SEGMENTS

DRAM
• New capacity investments driving growth

Logic
• Increased spending on 14/10 nm

Foundry
• Continued volume ramp of 7 nm, qualifications for 5 nm

3D-NAND
• Investments leveling off

ASM BUSINESS

China
• Doubling sales in 2018

Growth in More-than-Moore
• Multiple product lines are contributing

Expand R&D engagements
• New ALD solutions
• Broaden position in Epi

Preparing for next stage of growth
• Korea, Singapore facilities
For Q2, on a currency comparable level, we expect sales of €200-230 million, and we expect an order intake of €160-200 million.

For 2018, market watchers currently expect the wafer fab equipment market to increase with, on average, a high single digit percentage. We aim to outgrow the wafer fab equipment market in 2018.