SAFE HARBOR STATEMENTS

Safe Harbor Statement under the U.S. Private Securities Litigation Reform Act of 1995: All matters discussed in this business and strategy update, 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, shareholder and 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 filings from time to time with the U.S. Securities and Exchange Commission, including, but not limited to, the Company's reports on Form 20-F and Form 6-K. The company assumes no obligation to update or revise any forward-looking statements to reflect future developments or circumstances.
OUTLINE

› Semiconductor capital spending in 2014
› ASMI results in 2014
› Corporate responsibility
› Products & business highlights
› Market outlook and conclusions
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› Semiconductor capital spending in 2014
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Our industry grew in 2014

Semiconductor capital spending

(USD billion)

Source: Gartner, April 2015

Semiconductor capex was healthy in 2014 – up 11.6%
WAFER FAB EQUIPMENT WAS UP IN 2014

WAFER FAB EQUIPMENT BY DEVICE TYPE
(USD billion)

2014 WFE spending increased by 16% driven by memory

Source: Gartner, April 2015
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KEY HIGHLIGHTS – 2014

› ASMI revenues up 21% y-o-y

› Gross margin increased to 43%

› ASMI EBIT margin up from 10.4% in 2013 to 16.6% in 2014

› Cash flow from operations of €110 million in 2014
  • €100 million share buyback program announced October 2014
  • Proposal to ASMI 2015 AGM for dividend of €0.60 per share

› Comparable net earnings of €160 million up from €45 million in 2013
  • Excluding €1 billion PPA gain related to sale of ASMPT shares in 2013
  • ASMPT contributed €61 million to net earnings in 2014
# NET EARNINGS 2014

## FINANCIALS BASED ON US GAAP

<table>
<thead>
<tr>
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<tr>
<td><strong>Front-end</strong></td>
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<td>546</td>
<td>151</td>
<td>148</td>
<td>122</td>
<td>124</td>
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<tr>
<td>Back-end</td>
<td>160</td>
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<td><strong>NET SALES</strong></td>
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<td>452</td>
<td>546</td>
<td>151</td>
<td>148</td>
<td>122</td>
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</tr>
<tr>
<td>Front-end</td>
<td>39.0%</td>
<td>39.0%</td>
<td>43.1%</td>
<td>43.7%</td>
<td>42.3%</td>
<td>43.2%</td>
<td>43.0%</td>
<td>43.4%</td>
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<tr>
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<td>24.0%</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td><strong>GROSS MARGIN</strong></td>
<td>215</td>
<td>176</td>
<td>235</td>
<td>66</td>
<td>63</td>
<td>53</td>
<td>54</td>
<td>70</td>
</tr>
<tr>
<td>as % of sales</td>
<td>35.0%</td>
<td>39.0%</td>
<td>43.1%</td>
<td>43.7%</td>
<td>42.3%</td>
<td>43.3%</td>
<td>43.0%</td>
<td>43.3%</td>
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<td>Selling, general and administrative</td>
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<td></td>
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<tr>
<td>Research and development</td>
<td>(96)</td>
<td>(71)</td>
<td>(81)</td>
<td>(19)</td>
<td>(20)</td>
<td>(20)</td>
<td>(22)</td>
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<tr>
<td>(75)</td>
<td>(58)</td>
<td>(64)</td>
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<td>(15)</td>
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<td>Front-end</td>
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<tr>
<td>Front-end</td>
<td>47</td>
<td>47</td>
<td>91</td>
<td>33</td>
<td>28</td>
<td>17</td>
<td>13</td>
<td>29</td>
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<td>Back-end (100%)</td>
<td>(4)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td><strong>EBIT (excl. restructuring/impairment)</strong></td>
<td>43</td>
<td>47</td>
<td>91</td>
<td>33</td>
<td>28</td>
<td>17</td>
<td>13</td>
<td>29</td>
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<tr>
<td>as % of sales</td>
<td>7.0%</td>
<td>10.4%</td>
<td>16.6%</td>
<td>21.6%</td>
<td>18.5%</td>
<td>14.1%</td>
<td>10.8%</td>
<td>17.6%</td>
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<td>Restructuring</td>
<td>(3)</td>
<td>(3)</td>
<td>(0.1)</td>
<td>-</td>
<td>(0.1)</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Front-end</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Front-end</td>
<td>25</td>
<td>25</td>
<td>98</td>
<td>27</td>
<td>24</td>
<td>30</td>
<td>18</td>
<td>53</td>
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<tr>
<td>Back-end (ASMI interest)</td>
<td>21</td>
<td>21</td>
<td>61</td>
<td>6</td>
<td>16</td>
<td>31</td>
<td>9</td>
<td>13</td>
</tr>
<tr>
<td>PPA</td>
<td>1,006</td>
<td>1,006</td>
<td>(23)</td>
<td>(5)</td>
<td>(6)</td>
<td>(6)</td>
<td>(6)</td>
<td>(7)</td>
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<tr>
<td><strong>NET RESULT</strong></td>
<td>1,052</td>
<td>1,052</td>
<td>137</td>
<td>27</td>
<td>35</td>
<td>55</td>
<td>21</td>
<td>60</td>
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## BALANCE SHEET

### FINANCIALS BASED ON US GAAP

<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>Cash and cash equivalents</td>
<td>312</td>
<td>371</td>
<td>368</td>
<td>410</td>
<td>386</td>
<td>423</td>
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<tr>
<td>Other current assets</td>
<td>206</td>
<td>206</td>
<td>195</td>
<td>211</td>
<td>232</td>
<td>270</td>
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<td>Property, plant and equipment, net</td>
<td>57</td>
<td>58</td>
<td>61</td>
<td>72</td>
<td>79</td>
<td>91</td>
</tr>
<tr>
<td>Goodwill, net</td>
<td>11</td>
<td>11</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>13</td>
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<tr>
<td>Investments &amp; associates, and other assets</td>
<td>965</td>
<td>975</td>
<td>993</td>
<td>1,078</td>
<td>1,118</td>
<td>1,257</td>
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<td><strong>TOTAL ASSETS</strong></td>
<td><strong>1,551</strong></td>
<td><strong>1,621</strong></td>
<td><strong>1,629</strong></td>
<td><strong>1,783</strong></td>
<td><strong>1,827</strong></td>
<td><strong>2,054</strong></td>
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<tr>
<td>ST debt (incl. current LT debt)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Other current liabilities</td>
<td>101</td>
<td>134</td>
<td>111</td>
<td>120</td>
<td>135</td>
<td>158</td>
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<td>Long-term debt &amp; convertible subordinated debt</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Other long term liabilities</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>2</td>
<td>2</td>
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<td><strong>TOTAL LIABILITIES</strong></td>
<td><strong>104</strong></td>
<td><strong>136</strong></td>
<td><strong>114</strong></td>
<td><strong>123</strong></td>
<td><strong>137</strong></td>
<td><strong>159</strong></td>
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<tr>
<td>Total shareholders’ equity</td>
<td>1,447</td>
<td>1,485</td>
<td>1,516</td>
<td>1,661</td>
<td>1,690</td>
<td>1,894</td>
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<tr>
<td><strong>TOTAL LIABILITIES &amp; EQUITY</strong></td>
<td><strong>1,551</strong></td>
<td><strong>1,621</strong></td>
<td><strong>1,629</strong></td>
<td><strong>1,783</strong></td>
<td><strong>1,827</strong></td>
<td><strong>2,054</strong></td>
</tr>
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</table>
WORKING CAPITAL

VALUE

(EUR million)

DAYS

Days of working capital

Working capital
Quarterly sales

Q1  Q2  Q3  Q4  Q1  Q2  Q3  Q4  Q1  Q2  Q3  Q4  Q1
11 12 13 14 11 12 13 14 11 12 13 14 11

VALUE

0 20 40 60 80 100 120 140 160 180
Q1  Q2  Q3  Q4  Q1  Q2  Q3  Q4  Q1  Q2  Q3  Q4  Q1
11 12 13 14 11 12 13 14 11 12 13 14 11
## CASH FLOW

### FINANCIALS BASED ON US GAAP

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Net result</td>
<td>46</td>
<td>160</td>
<td>33</td>
<td>40</td>
<td>60</td>
<td>27</td>
<td>67</td>
</tr>
<tr>
<td>Depreciation and amortization</td>
<td>21</td>
<td>21</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>6</td>
<td>6</td>
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<tr>
<td>Working capital</td>
<td>(9)</td>
<td>0</td>
<td>27</td>
<td>(15)</td>
<td>2</td>
<td>(15)</td>
<td>(1)</td>
</tr>
<tr>
<td>Result from investments</td>
<td>(21)</td>
<td>(61)</td>
<td>(6)</td>
<td>(16)</td>
<td>(31)</td>
<td>(9)</td>
<td>(13)</td>
</tr>
<tr>
<td>Other adjustments</td>
<td>11</td>
<td>(10)</td>
<td>4</td>
<td>4</td>
<td>(15)</td>
<td>(2)</td>
<td>(22)</td>
</tr>
<tr>
<td>Net cash from operating activities</td>
<td>48</td>
<td>110</td>
<td>63</td>
<td>18</td>
<td>22</td>
<td>7</td>
<td>36</td>
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<tr>
<td>Net cash from investing activities</td>
<td>(7)</td>
<td>(32)</td>
<td>(4)</td>
<td>(7)</td>
<td>(10)</td>
<td>(12)</td>
<td>(8)</td>
</tr>
<tr>
<td>Net cash from financing activities</td>
<td>(16)</td>
<td>(38)</td>
<td>1</td>
<td>(19)</td>
<td>9</td>
<td>(28)</td>
<td>(25)</td>
</tr>
<tr>
<td>Net cash (used) provided</td>
<td>25</td>
<td>41</td>
<td>59</td>
<td>(8)</td>
<td>21</td>
<td>(32)</td>
<td>4</td>
</tr>
</tbody>
</table>

Figures are on a comparable basis, excluding effects related to the sale of 12% stake in ASMPT and subsequent capital return in 2013.
HISTORICAL DEVELOPMENT – ASMI (EXCL. ASMPT)

(EUR million)

- Net Sales (lhs)
- EBIT (rhs)
Proposed dividend increases by 20% to €0.60 per share

€100 million share buyback announced in October 2014

- To be executed in 2014/2015 timeframe; nearly fully completed as of 15 May 2015
- As part of commitment to use excess cash for the benefit of ASMI’s shareholders
TOTAL SHAREHOLDER RETURN IN 2013-2014

› Comparison of same sector companies
› Includes dividend payouts and redistribution of capital
TOTAL SHAREHOLDER RETURN 2010-2014

› Comparison of same sector companies
› Includes dividend payouts and redistribution of capital


ASML  ASMI  AMAT  LAM
Strong increase in implied value from €400-500 million negative in May 2012 to approximately €1.0 billion positive in May 2015.
SHAREHOLDING IN ASMPT

After the sale of 12% of the ASMPT shares on 15 March 2013, our 40% share of ASMPT net profits is included in ‘result from investments’

PPA regular amortization amounted to €23 million for full year 2014

<table>
<thead>
<tr>
<th>EUR million</th>
<th>Full year 2013</th>
<th>Full year 2014</th>
<th>Q1 2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sales ASMPT (HK$ million)</td>
<td>10,841</td>
<td>14,229</td>
<td>3,056</td>
</tr>
<tr>
<td>Net profit ASMPT (EUR million, 100% based)</td>
<td>52</td>
<td>152</td>
<td>34</td>
</tr>
<tr>
<td>Result from investments (including ASMI’s 40% share of ASMPT net profit)</td>
<td>21</td>
<td>61</td>
<td>13</td>
</tr>
<tr>
<td>Remeasurement gain, realized gain on sale of ASMPT shares, amortization and fair value adjustments</td>
<td>1,006</td>
<td>(23)</td>
<td>(7)</td>
</tr>
<tr>
<td>Result from investments</td>
<td>1,027</td>
<td>39</td>
<td>7</td>
</tr>
</tbody>
</table>
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CORPORATE RESPONSIBILITY

- Released first annual Corporate Responsibility (CR) report
- Electronics Industry Citizenship Coalition (EICC) Code of Conduct
  - EICC Committee formed to drive continuous improvement and oversight - Q2 2014
  - Score of “Low Risk” in Risk Assessment process (official EICC system) - Q2 2014
  - Started Top Tier Supplier compliance process in 2014

  Next steps:
  - 3rd Party EICC audit of all key sites to verify compliance - Q2 2015 to Q1 2016
  - Top Tier Supplier assessments - Q2-Q3 2015, and audits - Q4 2015

- Added full-time CR Manager – Q2 2014

- Exceeded major customer audit expectations – Q1 2015

Transparency → ASM website – Corporate Responsibility
Continued reduction in injuries, Recordable Case Rate remains flat

Safety Leadership engagement sessions within 2015

Focused improvements in our Engineering Labs and Global Service
### 2013-2015 Environment Scorecard

<table>
<thead>
<tr>
<th>Objective</th>
<th>Unit</th>
<th>Progress 2014 *</th>
<th>2015 Target (Vs. 2012 Baseline)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Greenhouse Gas (GHG) Reducing Measures</td>
<td>Metric Ton Equiv CO₂ (MT-CO₂E)</td>
<td>71%</td>
<td>0.8K</td>
</tr>
<tr>
<td>Water Usage Reduction (m³)</td>
<td>m³</td>
<td>36%</td>
<td>10K</td>
</tr>
<tr>
<td>Recycled Solid Waste Diversion Rate</td>
<td>Percent (% of Total Solid Waste)</td>
<td>76%</td>
<td>85%</td>
</tr>
<tr>
<td>Unintended Discharges</td>
<td>Total Count</td>
<td>0</td>
<td>ZERO / YEAR</td>
</tr>
</tbody>
</table>

* percentage towards target

- Global Environmental Management System recertified, zero findings
- Carbon Disclosure Project – Best Improver Benelux Region
- On-target for achieving three of four 3-year objectives
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ASM products

› ASM focuses on deposition equipment

› ASM has a leading position in ALD and PEALD:
  • ALD for high-k metal gates
  • PEALD spacers for double patterning
  • Additional applications, such as in advanced FinFET devices

› Positions in epitaxy, PECVD and vertical furnaces
WHAT HAS CHANGED IN 2014?

› PEALD market further accelerated

› Revenue contribution of memory segment further increased

› Strengthened our position within the top-10 capex customers

› 2014 another year in which ASMI outgrew the wafer fab equipment market
GROWING WALLET SHARE WITH TOP CLIENTS

› Strengthened our position beyond the top-3 in the top-10 capex spenders in 2014

ASMI REVENUE

Growing share of wallet with top clients
ALD BECOMING AN IMPORTANT DEPOSITION EQUIPMENT SEGMENT

› The CAGR ‘14-’18 of the ALD segment is highest within the deposition equipment market

› ALD estimated to represent approximately 20% of the total deposition equipment market by 2018

› Drivers for growth:
  • Strengths of ALD: (i) high-precision deposition of smooth and conformal ultra-thin films; (ii) ability to deposit new materials
  • Device scaling, new materials and the use of 3D structures all are drivers to increase demand for ALD and PEALD
Approximately doubling over the next three to four years

Key growth areas are patterning layers, high-k/metal gate and other applications

Source: Gartner, VLSI, ASMI April 2015
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SEMICONDUCTOR GROWTH DRIVERS

SEMICONDUCTOR SALES BY KEY APPLICATION

(USD billion)

Source: Gartner, April 2015

Semiconductor growth drivers are mobile devices
Performance per Watt becoming key metric factor in chip design
ASM MARKETS

WAFFER FAB EQUIPMENT BY TECHNOLOGY NODE

Source: Gartner, April 2015

Advanced nodes: market segments with high expected growth
Q2 2015 FINANCIAL OUTLOOK ASMI

Based upon the current backlog and our current visibility:

On a currency comparable level we expect Q2 sales to be between €180 and €200 million, while the Q2 order intake is expected to be in the range of €160-180 million.

For the second half of 2015 the current visibility remains limited.
SUMMARY

› Revenue increased 21% compared to 2013, outperforming the overall wafer fab equipment market

› Strong traction in ALD (especially PEALD) continued in 2014

› Achieved strong gross margin improvements in 2014

› The Company believes to be well positioned for increased number of ALD applications in the next technology nodes for logic/foundry/memory