

## Siltronic – a leading producer of silicon wafers

**Roadshow Presentation** 

March/April, 2017

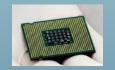
## Increasing demand for electronic devices and new applications drive semiconductor growth, which in turn fuels silicon demand.

#### **Electronics value chain 2016**



Semiconductors
USD 327 bn





Semiconductor silicon wafers USD 7.2 bn









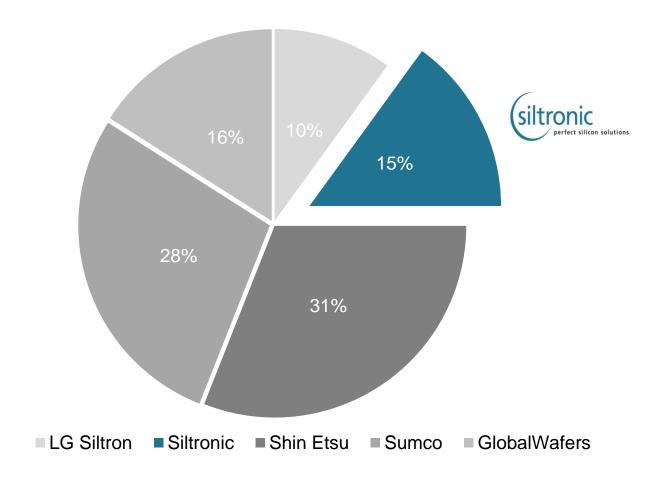


Source: Electronics (IC Insights), Semiconductors (WSTS, only silicon-based), Silicon wafers (SEMI SMG), electronic applications (WACKER estimate)



### Siltronic is a strong wafer supplier with leading-edge technology

Top 5 wafer producers serve more than 90% of market across all diameters



Sources: Companies' revenue reports 2016, converted to USD mn



# International manufacturing network supports market leadership and business focus





## Customer base well diversified across all major semiconductor silicon wafer consumers

#### Siltronic is a supplier to all top 20 silicon wafer consumers









































Siltronic well positioned at all major silicon consumers

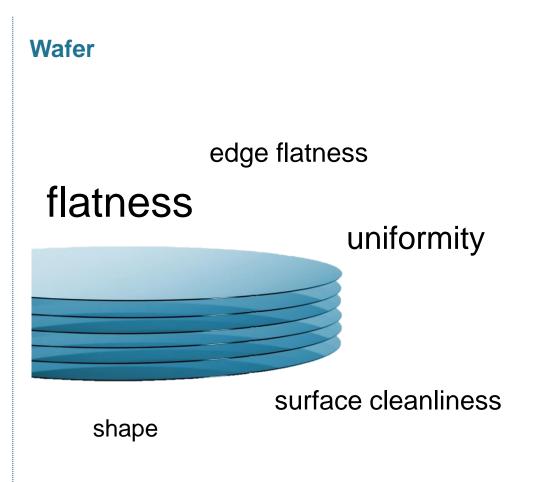
Top 10 customers represent ~65% of 2016 revenues

Note: Top 20 consumers defined according to their fab capacities in the Fab Data Base from Gartner Source: Company Information; Gartner Fab Data Base; Companies' web pages



# Continuous improvement of key ingot and wafer properties to meet customers' requirements

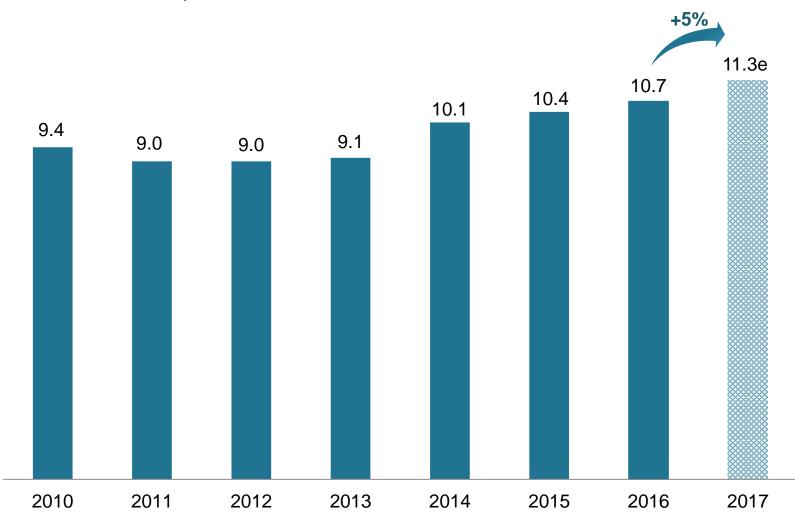
Improvement of key ingot and wafer properties Ingot doping level mechanical stability purity resistivity oxygen content homogeneity





### Silicon area demand continues to grow

Silicon wafer demand, in bn in<sup>2</sup>

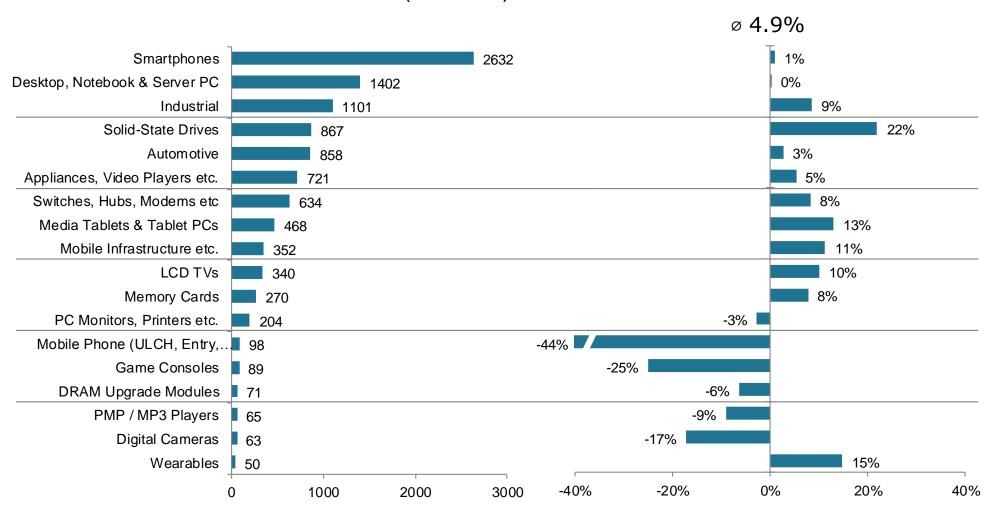


Source: SEMI (Silicon Area until 2016), IHS Markit Technology (Semiconductor Silicon Demand Forecast Tool, Q1'17 Update, Estimate 2017)



# IHS Markit expects Silicon demand to grow +4.9% in 2017, driven by SSDs, industrial applications, and network infrastructure.

Wafer Demand 2016 (Mn inch2) and Growth 2017 vs. 2016

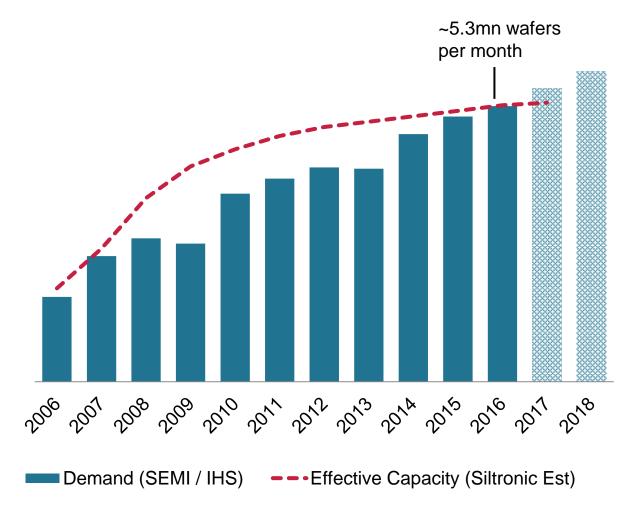


Source: IHS Markit Technology (Semiconductor Silicon Demand Forecast Tool, Q1'17 Update)



## 300mm demand is expected above industry capacity, after almost a decade of over-supply

300mm effective capacity vs. demand, kpcs per month



#### **Comments**

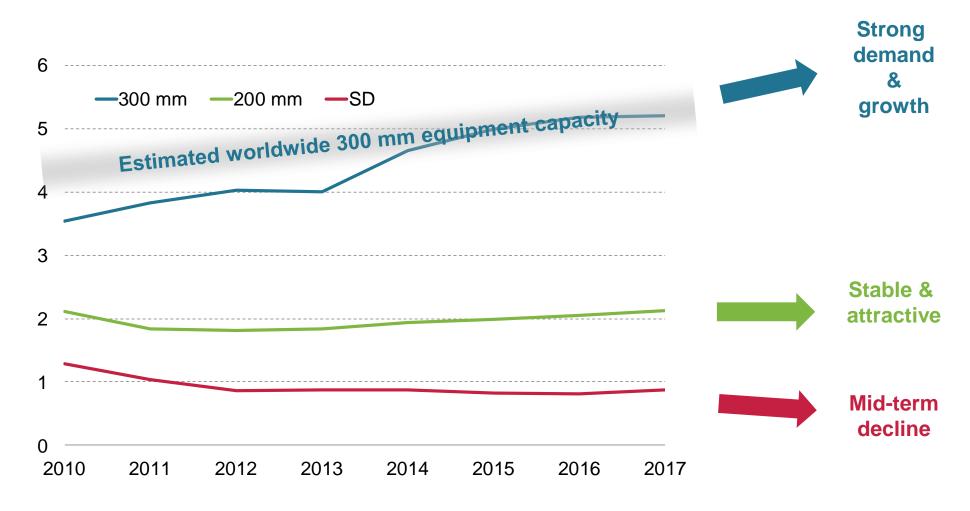
- Extension not considered at current price levels
- ~30% to 35% overall empty shell capacity estimated to be available
  - Would allow for costefficient brownfield extension according to demand growth without need of creating overcapacity
  - Takes around 12-18 months to bring brownfield capacity online

Sources: SEMI, IHS, Siltronic



## Siltronic is Focused on Growing 300 mm and Attractive 200 mm Business

Development of Total Wafer Demand per Diameter, in mn 300 mm equivalents per month



Source: SEMI up to Jan 2017, Siltronic estimates



## Siltronic Outlook 2017 (as per March 14, 2017)

EBITDA margin	at least 20%
ROCE	substantially higher than in 2016, approximately at WACC
Free Cash Flow	clearly positive; by far above 2016
Sales	at least EUR 1bn
R&D	unchanged at approx. 7% of sales
Cost Position	potential savings of around EUR 20mn to EUR 25mn
Hedging Expenses	substantially lower around EUR 10mn (at EUR/USD = 1.05; EUR/JPY = 120)
Depreciation	on the level of 2016
Tax	between 20% and 25%
Financial Result	roughly EUR 10mn interest expense
Earnings per Share	significantly higher than in 2016
CapEx	around EUR 100mn, partly financed by USD 20mn customer prepayments



## Based on technology leadership Siltronic is well positioned to improve returns

# Improve returns and stay ahead in technology

### **Strategic Focus**

#### **Benefit**

from market growth & favorable FX

### **Ensure**

technology & quality leadership

### **Improve**

financial performance & cash flow

#### **Execute**

cost reduction roadmaps

Siltronic – We develop intelligent solutions for sustainable growth.



## **Appendix**



### Financials improved strongly over the last years

Adjusted <sup>1</sup> financial figures (EUR mn)	2012	2013	2014	2015	2016
Sales	1030.0	875.5	853.4	931.3	933.4
EBIT	(75.5)	(87.3)	(31.6)	2.7	27.0
EBIT margin in %	(7.3)	(10.0)	(3.7)	0.3	2.9
EBITDA	122.5	112.6	117.7	124.0	146.0
EBITDA margin in %	11.9	12.9	13.8	13.3	15.6
CapEx	144.3	39.7	40.7	75.0	88.8
Free cash flow	(134.4)	64.7	86.3	37.4	19.0

<sup>&</sup>lt;sup>1</sup> figures 2012-2014 adjusted for consolidation effects resulting from acquisition of SSW and restructuring



## Financial Year 2016: Highlights

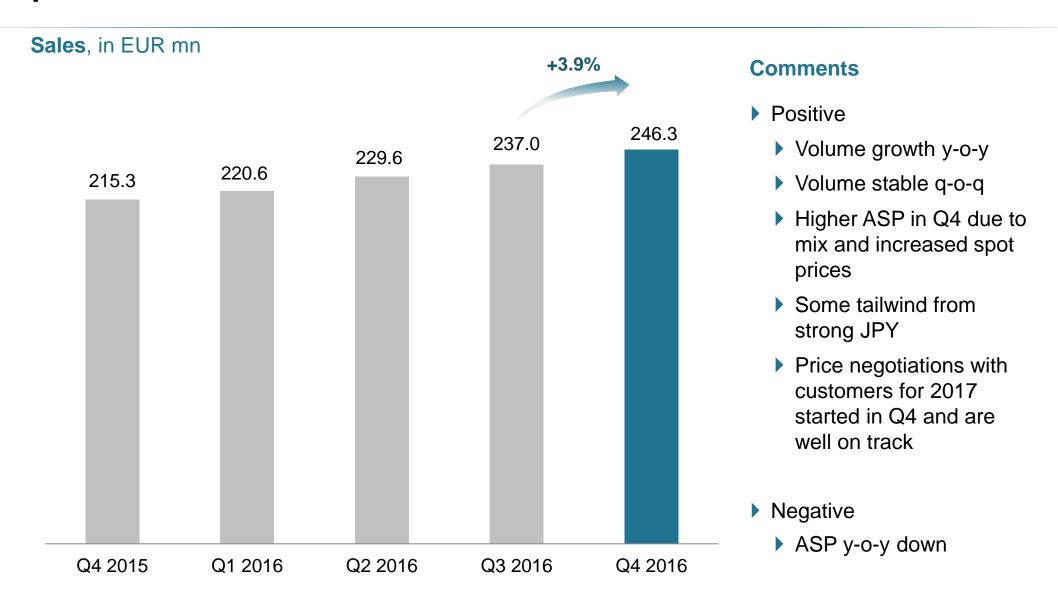
Sales	Sales of EUR 933.4mn (2015: EUR 931.3mn)
EBITDA	EUR 146.0mn (2015: EUR 124.0mn), Without negative FX effects* EBITDA would have been EUR 166.9mn
Margin	EBITDA margin 15.6% (2015: 13.3%) Without negative FX effects* EBITDA margin would have been 17.9%
EBIT	positive at EUR 27.0mn (2015: EUR 2.7mn)
Cost Savings	around EUR 30mn
Investments**	EUR 88.8mn (2015: EUR 75.0mn), mainly in enhanced capabilities
Free Cash Flow	EUR 19.0mn (2015: EUR 37.4mn), despite EUR 11.1mn one-time payment to pension fund and EUR 20.5mn repayment of customer prepayments
Net Cash	EUR 175.0mn (2015: EUR 155.9mn)

\*other operating income and expenses influenced by FX effects, mainly due to hedging . In 2016, FX effects added up to expenses of EUR 20.9mn.

\*\* without investment in financial assets



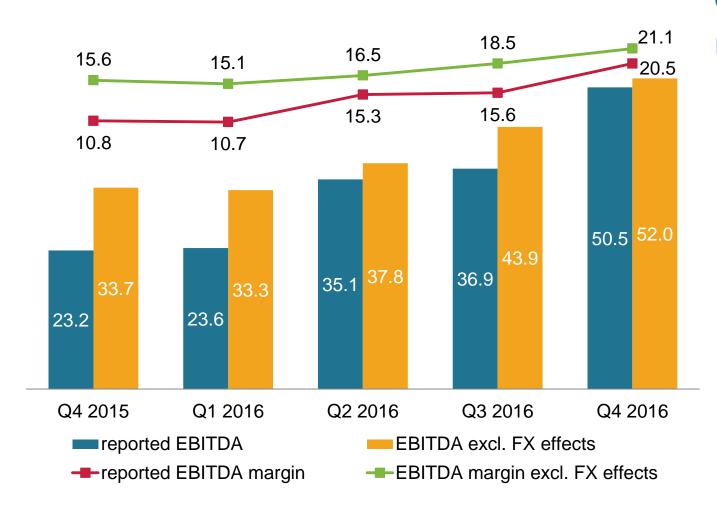
# Q4 sales development driven by positive mix, increased spot prices and tailwind from JPY





## Positive development of EBITDA and EBITDA margin due to cost reductions and decreasing hedging expenses

### EBITDA margin and EBITDA in EUR mn



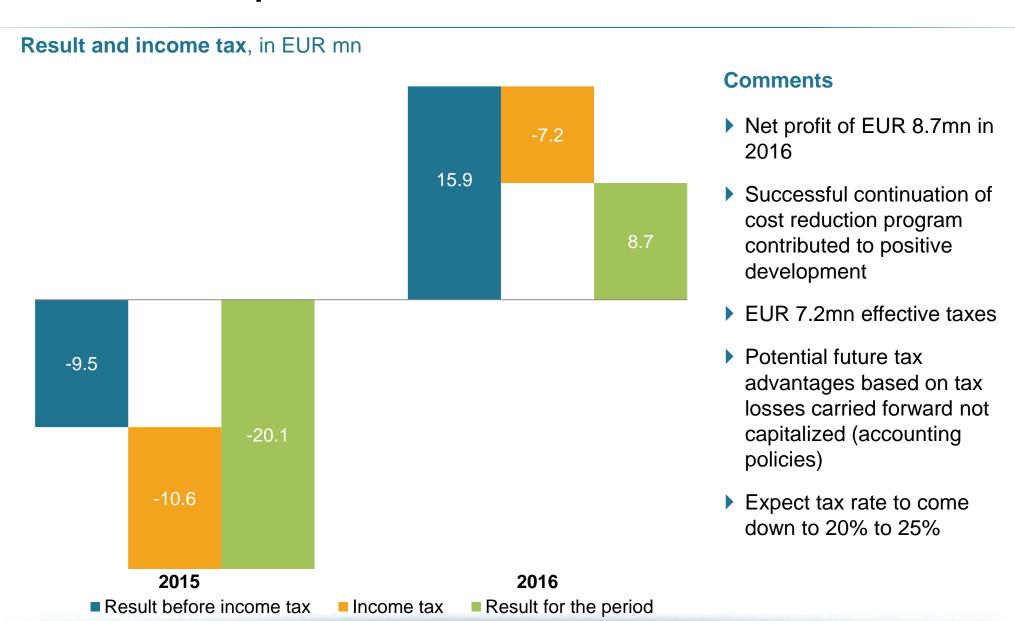
#### **Comments**

- Positive
  - Higher ASP in Q4 q-o-q due to mix and increased spot prices
  - Cost reduction on track
  - Hedging losses\* for FY 2016 decreased to EUR 20.9mn y-o-y
  - Positive effects of strong JPY on sales and gross profit outweigh negative effects on other operating income and expense

\*Other operating income and expenses influenced by FX effects, mainly due to hedging



### Positive development of net result





### Equity ratio of 40.2% Net financial assets of EUR 175mn

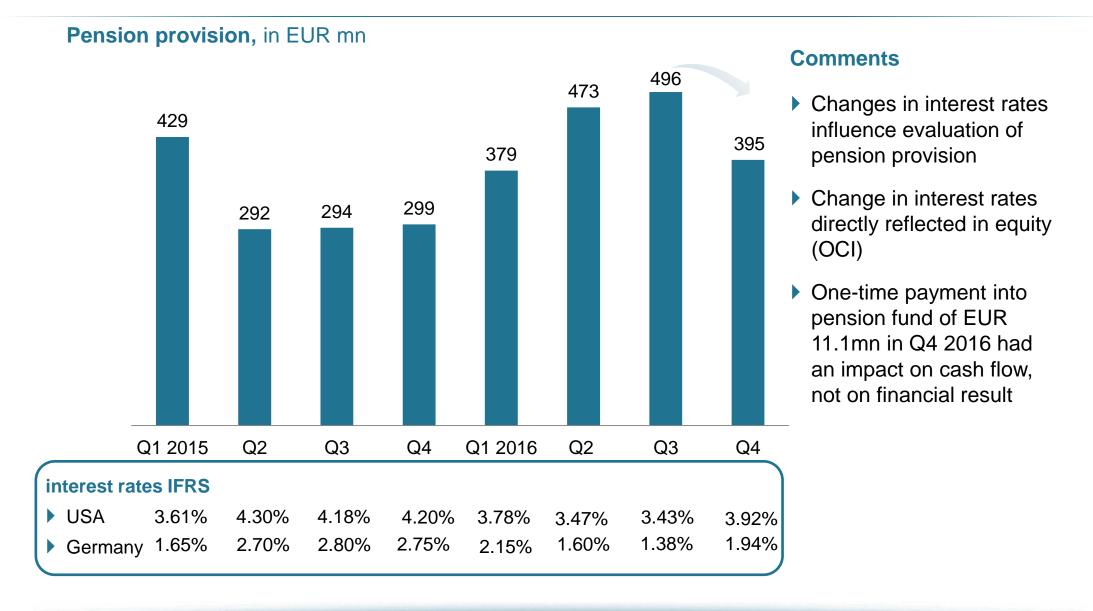
### Balance sheet, in EUR mn

Assets	Dec 31, 2016	Dec 31, 2015	Comments Dec 31, 2016
Non-current	554.1	579.1	
PP&E	519.8	542.9	
Other fixed	34.3	36.2	25 intangibles (related to SSW)
Current	502.7	461.7	
Inventories	140.9	142.7	
Trade receivables	118.2	100.4	
Other current	28.2	24.1	3 hedging
Cash and fixed term deposits	215.4	194.5	
Total	1,056.8	1,040.8	

Equity and liabilities	Dec 31, 2016	Dec 31, 2015	Comments Dec 31, 2016
Equity	425.3	497.3	
Siltronic	431.9	500.5	
Other shareholders	-6.6	-3.2	Samsung's 22% in SSW
Liabilities	631.5	543.5	
Pension provision	395.1	299.4	Germany and US
Other provisions	51.1	41.7	40 personnel related (e.g. early retirement)
Financial debt	40.4	38.6	Samsung
Trade liabilities	81.6	72.1	
Other	63.3	91.7	26 prepayments 21 employee related 10 hedging
Total	1,056.8	1,040.8	



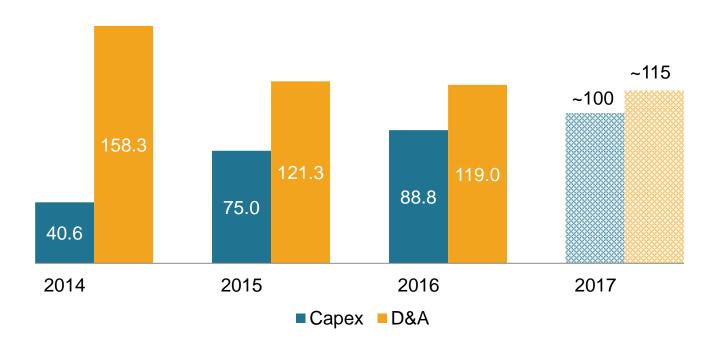
## Pension provision increased y-o-y due to lower interest rates; however down q-o-q





### CapEx: spending mostly for capability and cost reductions

### Adjusted¹ CapEx and D&A, in EUR mn



### CapEx 2015 and 2016

- New crystal pulling hall in Freiberg
- Exhange of old crystal pullers vs. state-of-the-art equipment
- Automation projects in Germany

#### 2017 focus on

- Capability improvement
  - New design rules
  - New generation crystal pullers
- Cost reduction (e.g. further automation)
- Debottlenecking

adjustments are based on the assumption that SSW would have been consolidated prior to January 1, 2014. Initial consolidation of SSW was made as of January 24, 2014. The adjustments are not in compliance with IFRS.



### Payments for CapEx above average in 2016

### Cash flow, in EUR mn

	2015	2016
Cash flow from operating activities	96.1	115.6
thereof repayment of prepayments	23.3	20.5
thereof one-time payment to pension fund	0	11.1
Proceeds/payments for CapEx	-58.7	-96.6
Free cash flow	37.4	19.0

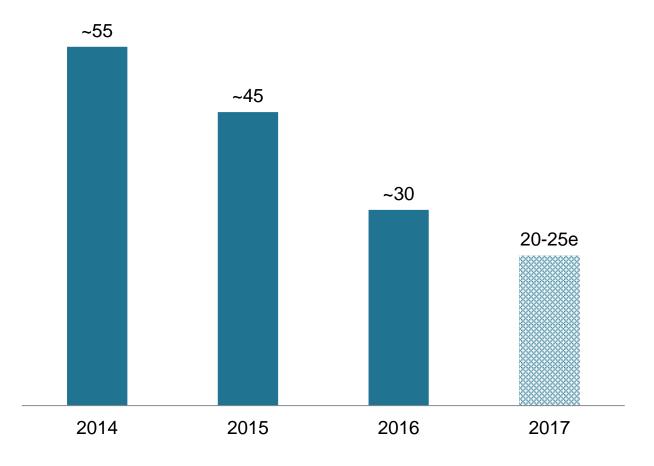
#### **Comments**

- CapEx for investments in state-of-the-art crystal pullers and further automation of production sites
- Free cash flow still burdened by repayment of prepayments. These will be settled by mid-2018
- In 2016 one-time payment to pension fund of EUR 11.1mn



### Successful cost reduction programs continue

### Cost savings, in EUR mn<sup>1</sup>



### **Additional savings levers:**

- Investing in automation in Germany
- Investing in new pullers to improve yields and capabilities
- Poly cost optimization ongoing
- Further productivity increases through various initiatives

Based on prior year cost basis to current year volumes and adjustments to certain current year costs to reflect prior year contractual and economic parameters (e.g. prior year unit labor cost).



### **Contact and Additional Information**

#### **Issuer and Contact**

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#### **Additional Information**

ISIN: DE000WAF3001

WKN: WAF300

Deutsche Börse: WAF

Listing: Frankfurt Stock Exchange

Prime Standard

#### **Financial Calendar**

Q1 2017 Results April 27, 2017

Annual General Meeting May 9, 2017

Q2 2017 Results July 28, 2017

Q3 2017 Results October 26, 2017







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