

Siltronic – a leading producer of silicon wafers

Fact Book
Investor Relations
October 2017

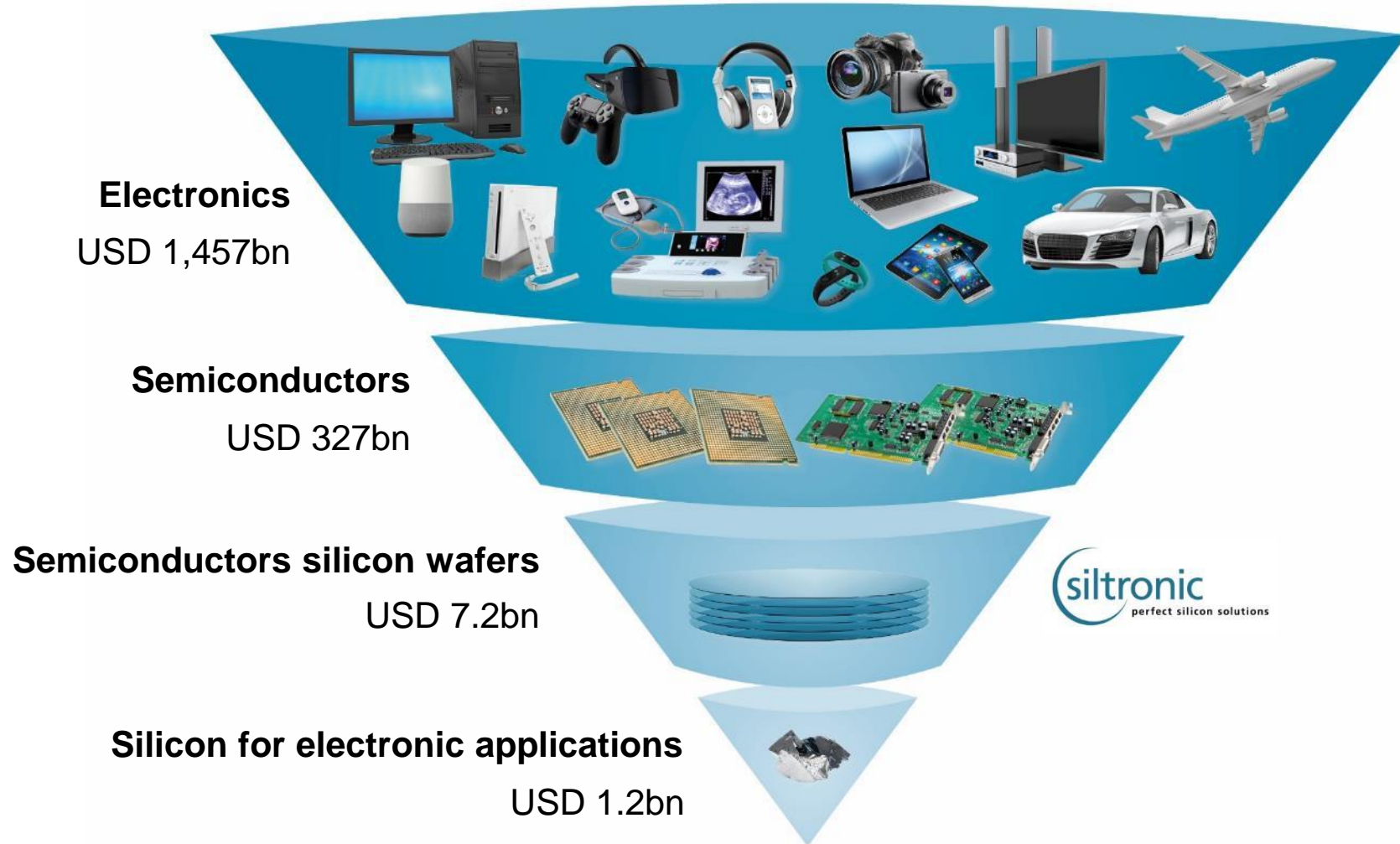


BUSINESS ENVIRONMENT

**....operating in a continuous
growing and improving
environment.....**

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

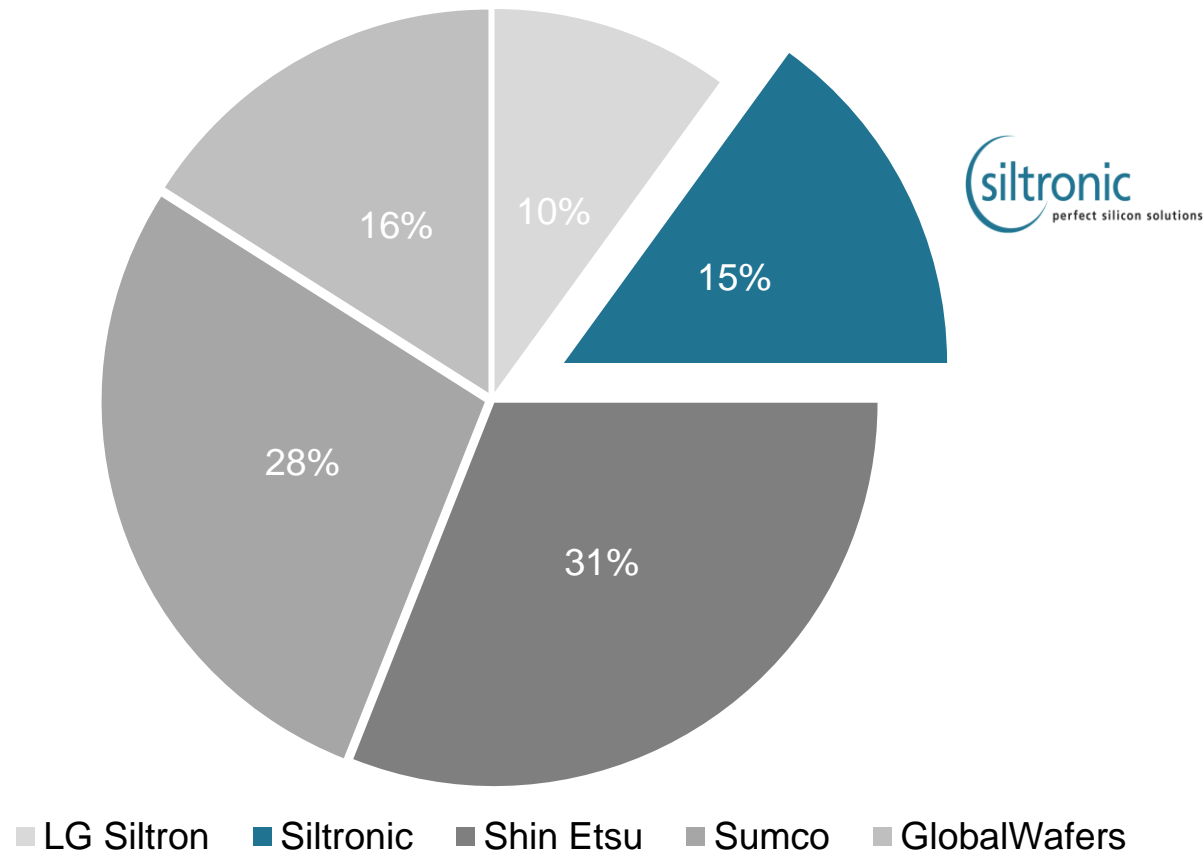
Electronics value chain 2016



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

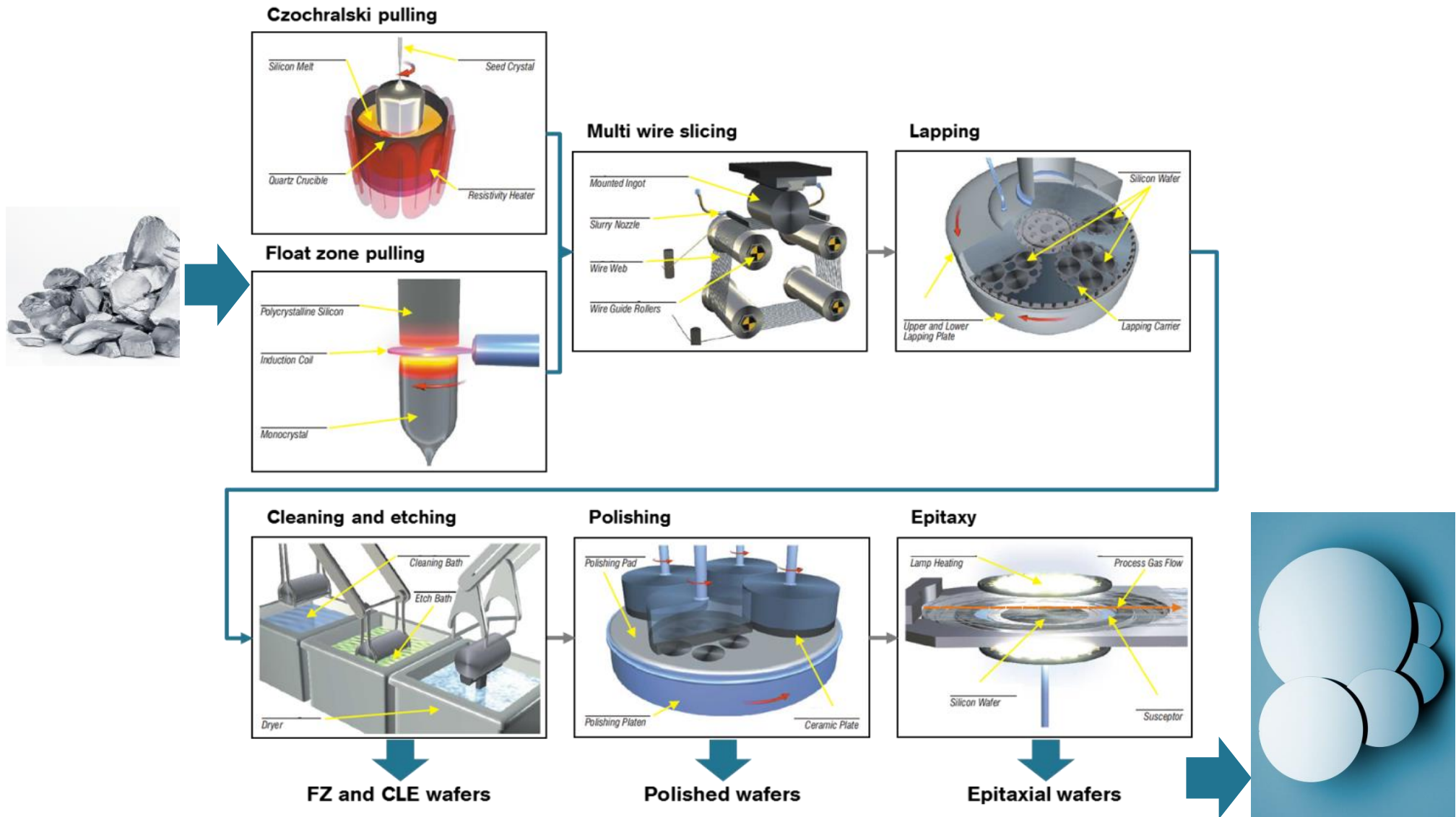
Siltronic is a strong wafer supplier with leading-edge technology

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



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

Value creation at Siltronic



International manufacturing network supports market leadership and business focus



US

Portland

200 mm

Wafer



Germany

Freiberg

300 mm

Crystal⁽¹⁾ + Wafer



Burghausen

150 200 300 mm

Crystal⁽¹⁾ + Wafer



Singapore

SSP

200 mm

Wafer



SSW

300 mm

Crystal⁽¹⁾ + Wafer



High volume facilities for 300 mm in Germany and Singapore

Among world's newest & largest fabs in Singapore

SSW majority strengthens fab network and market position

(1) crystal pulling

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 ~72% of 2016 revenues

Source: Company Information, Siltronic

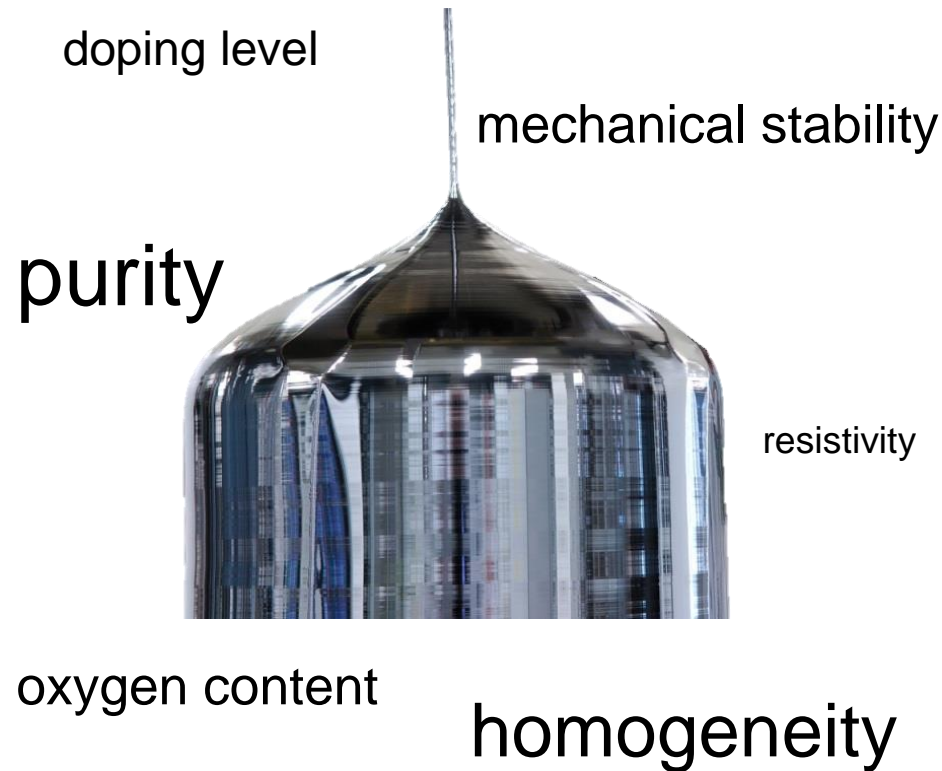


**SILTRONIC - AN INDUSTRY
TECHNOLOGY LEADER**

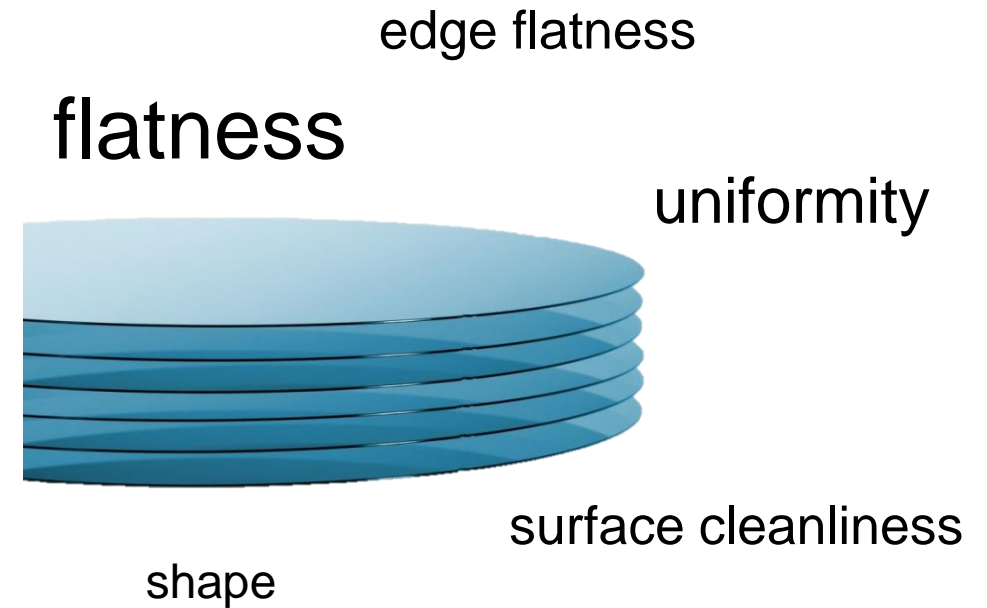
**.....Technological
leadership - a constant race
for improvement.....**

Flatness just one example – A number of key ingot & wafer properties needs to be continuously improved to meet customers' requirements

Ingot

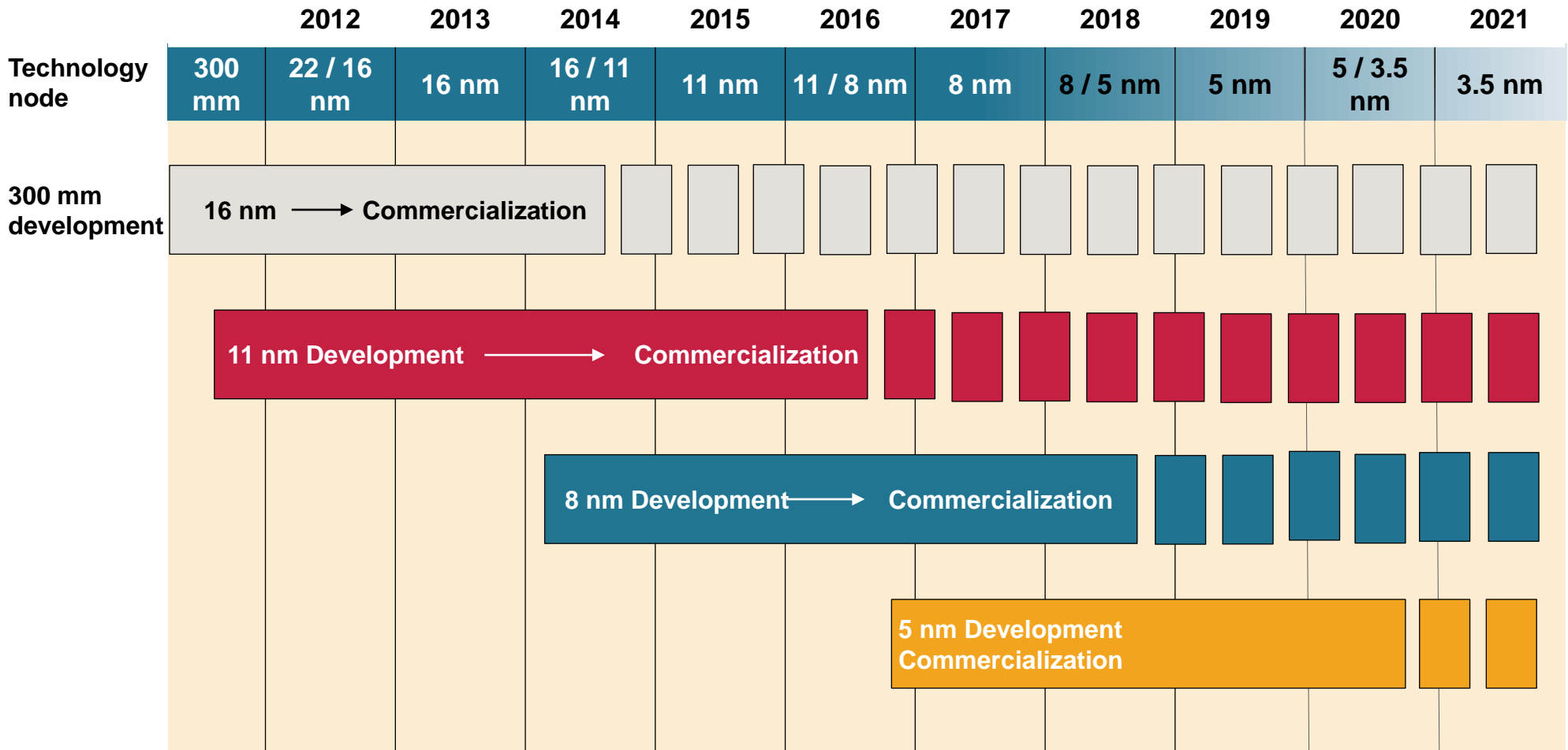


Wafer



“More Moore” – Siltronic’s technology roadmap will stay “One Generation Ahead”

Siltronic’s Design Rule roadmap follows road to “More Moore”



Siltronic DR projects develop processes for upcoming wafer requirements one generation ahead

The transition to the next DR typically requires an improvement of critical wafer parameters by ~ 30%!



- ▶ Surface defects
- ▶ Shape
- ▶ Crystal homogeneity
- ▶ Surface/bulk metals

▶ Local/near-edge flatness
Specifications down to 20nm!

How small is 20nm?

20nm height on a wafer \approx a flat leaf on the surface of the Chiemsee.

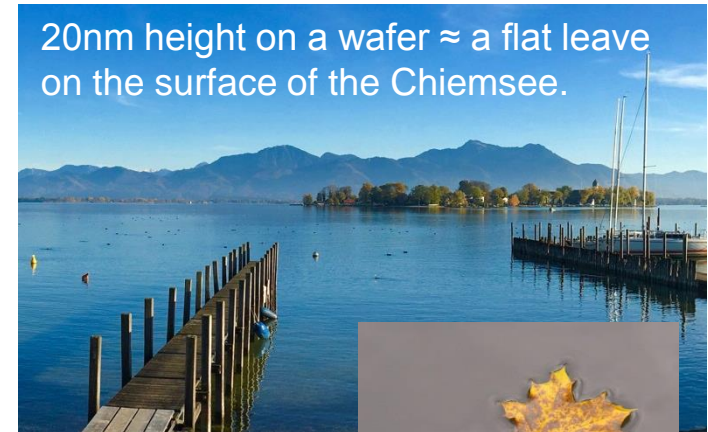


Image source: www.chiemsee-alpenland.de

Broad product portfolio

Siltronic offers a broad product portfolio to address all high volume wafer types and to meet different application requirements

Diameter	Process	Share of portfolio	Product	Applications
300 mm	CZ	~60%	Double side polished wafer Epitaxial wafer Argon annealed wafer Ultimate Silicon™	Memory, Logic, Analog
125 – 200 mm + SD	CZ + FZ	~40%	Standard products: Polished wafer Epitaxial wafer Cut/lapped/etched wafer Special products: Lowly-doped and highly-doped wafer	Logic, Analog, Discretes, Microprocessors, Image sensors, Power and opto-electronics, IGBTs

Note: CZ: Czochralski crystal growing, FZ: Float zone technology

Siltronic is a leader in wafer technology and quality

Technology leadership complemented with the highest level of quality

- ▶ First supplier to ship 300mm wafers
 - ▶ Development of 8 nm design rule started in 2013 (commercialization 2017);
 - ▶ Concurrently optimizing on 50+ wafer parameters of each design rule
 - ▶ >400 engineers worldwide
 - ▶ Approximately 1,700 patents issued and pending (as of Dec. 31, 2016)
 - ▶ Single wafer traceability for 300mm
 - ▶ Standardized processes across sites enabling “copy exactly” at product level
- ▶ Quality awards from several top semiconductor players



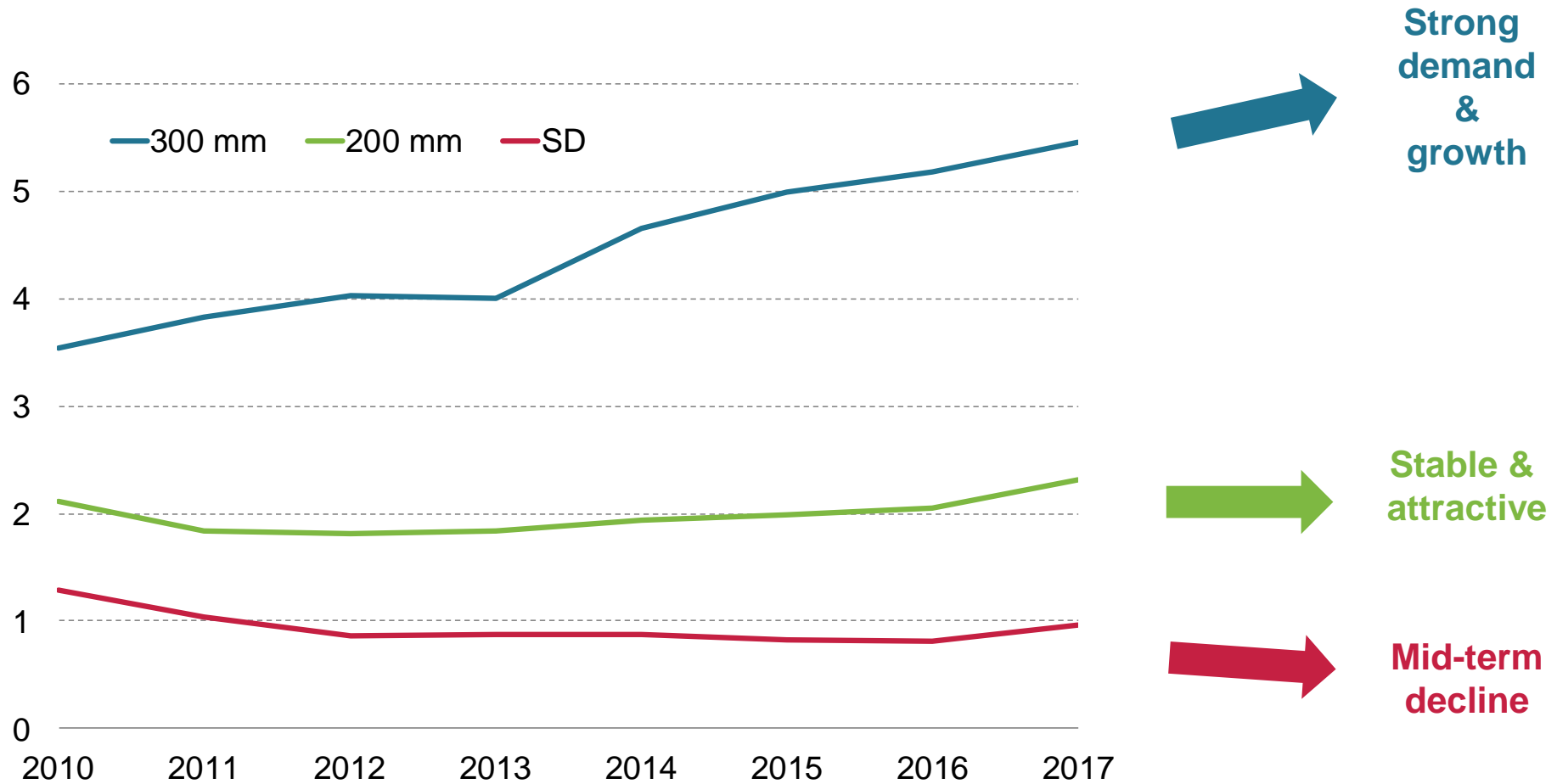
The background features a series of concentric, curved lines in shades of blue and black, creating a sense of depth and motion. A large, semi-transparent teal circle is positioned on the left side of the frame, partially overlapping the curved lines.

SILTRONIC PERFORMANCE

**...well prepared to gain from
future growth.....**

Siltronic is focused on growing 300mm and attractive 200mm business

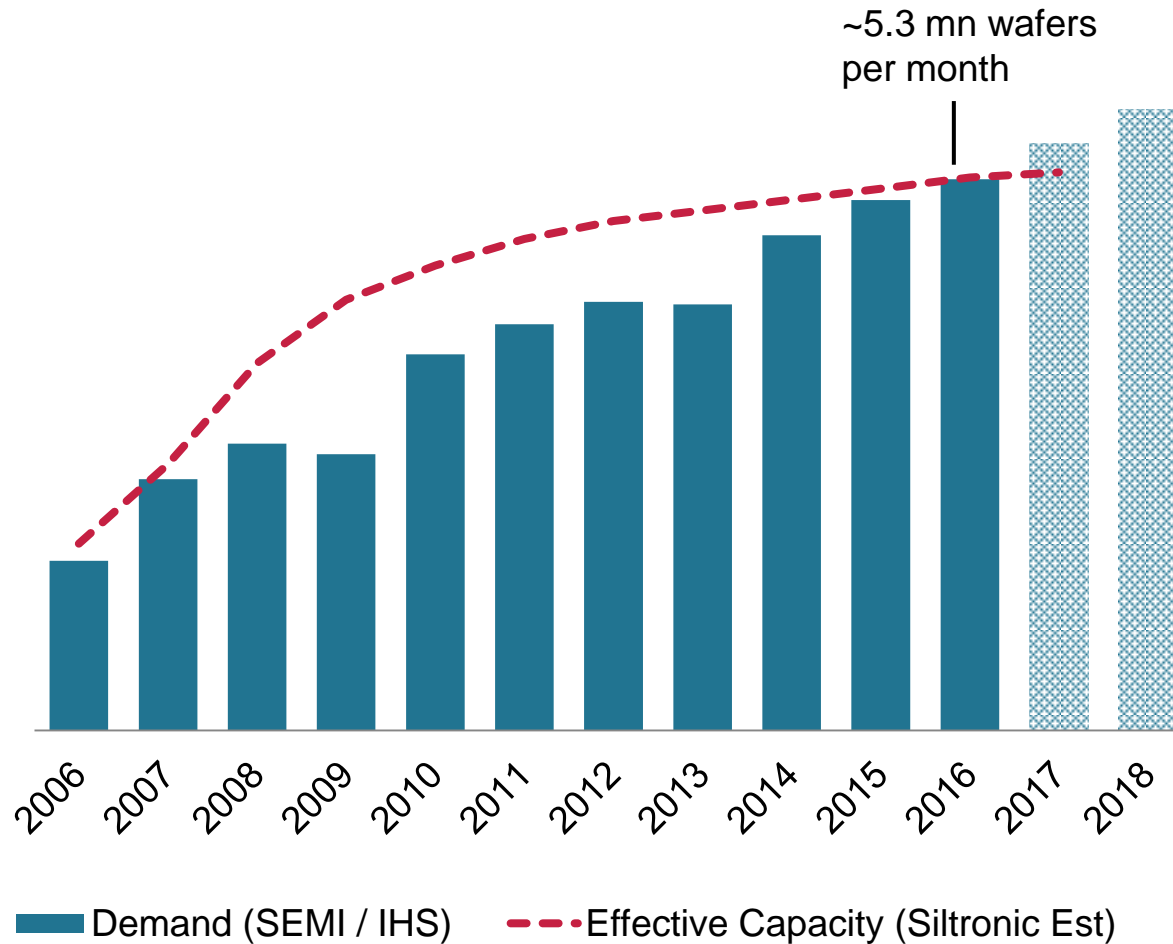
Development of total wafer demand per diameter, in million 300mm equivalents per month



Source: SEMI up to June 2017, Siltronic estimates

300mm wafer demand is expected above industry supply capacity, after almost a decade of oversupply

300mm effective capacity vs. demand, kpcs per month

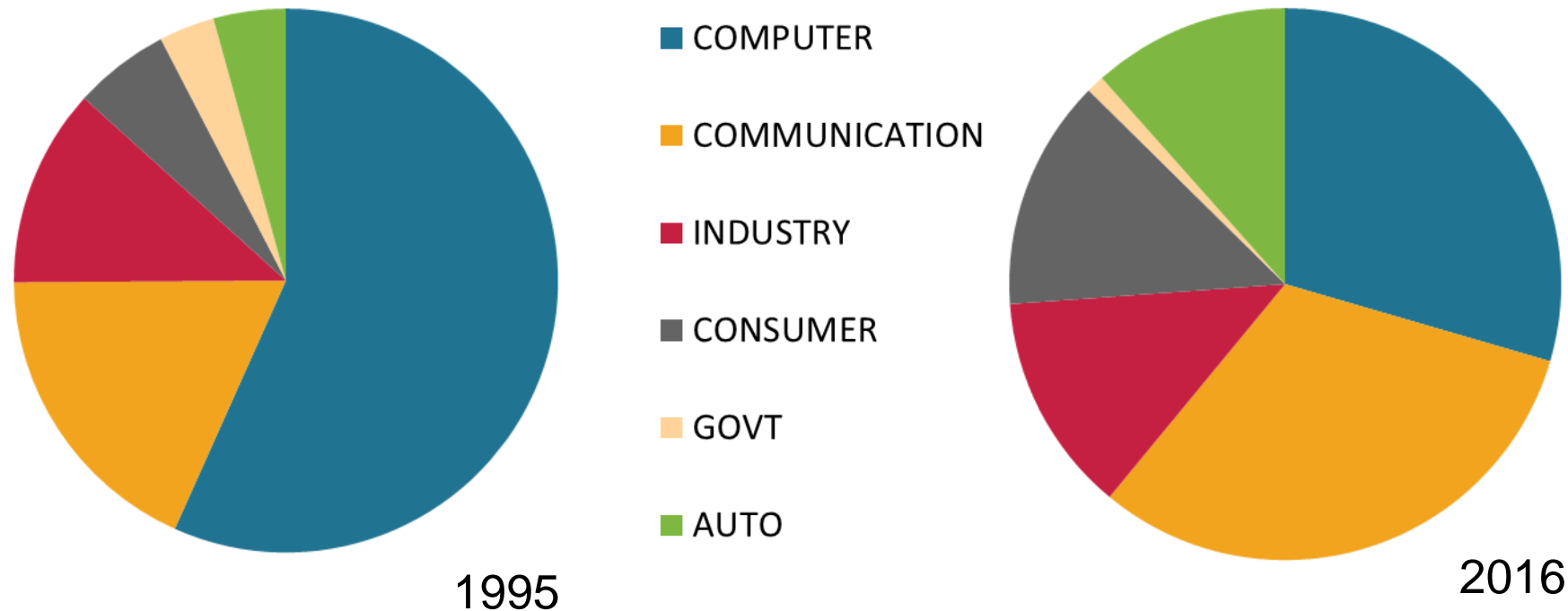


► Gap between supply and demand expected to increase further in 2018

Sources: SEMI, IHS, Siltronic

20 years back more than half of the semiconductor sales was for computing – today's markets are much more diversified

Percentage of semiconductor sales



▶ Silicon demand less volatile on broader application and markets

Sources: Computer History Museum, Catalog 107273410, WSTS 2017

Ever new applications for electronic devices and the infrastructure to support them continue to drive silicon demand

Electronic equipment contains multiple devices built on tailormade Si substrates



SSDs and industrial applications remain the main drivers for silicon demand. Turnaround in PC and tablet market also helps.

Computing



- ▶ Servers, mobile PCs and PC upgrades drive demand for SSDs.
- ▶ Mobile PC units will decline in 2017 but at the slowest rate in 10 years.

Mobile Phones



- ▶ Smartphone shipments are expected to grow.
- ▶ Technology migrations and content are key for silicon demand.

Industrial



- ▶ Industrial automation, smart homes and medical electronics will increase silicon demand for industrial applications in 2017.

Automotive



- ▶ Semiconductor content in new cars grows, driven by electrification, automated driving and connectivity.
- ▶ Vehicle production also rises slowly.

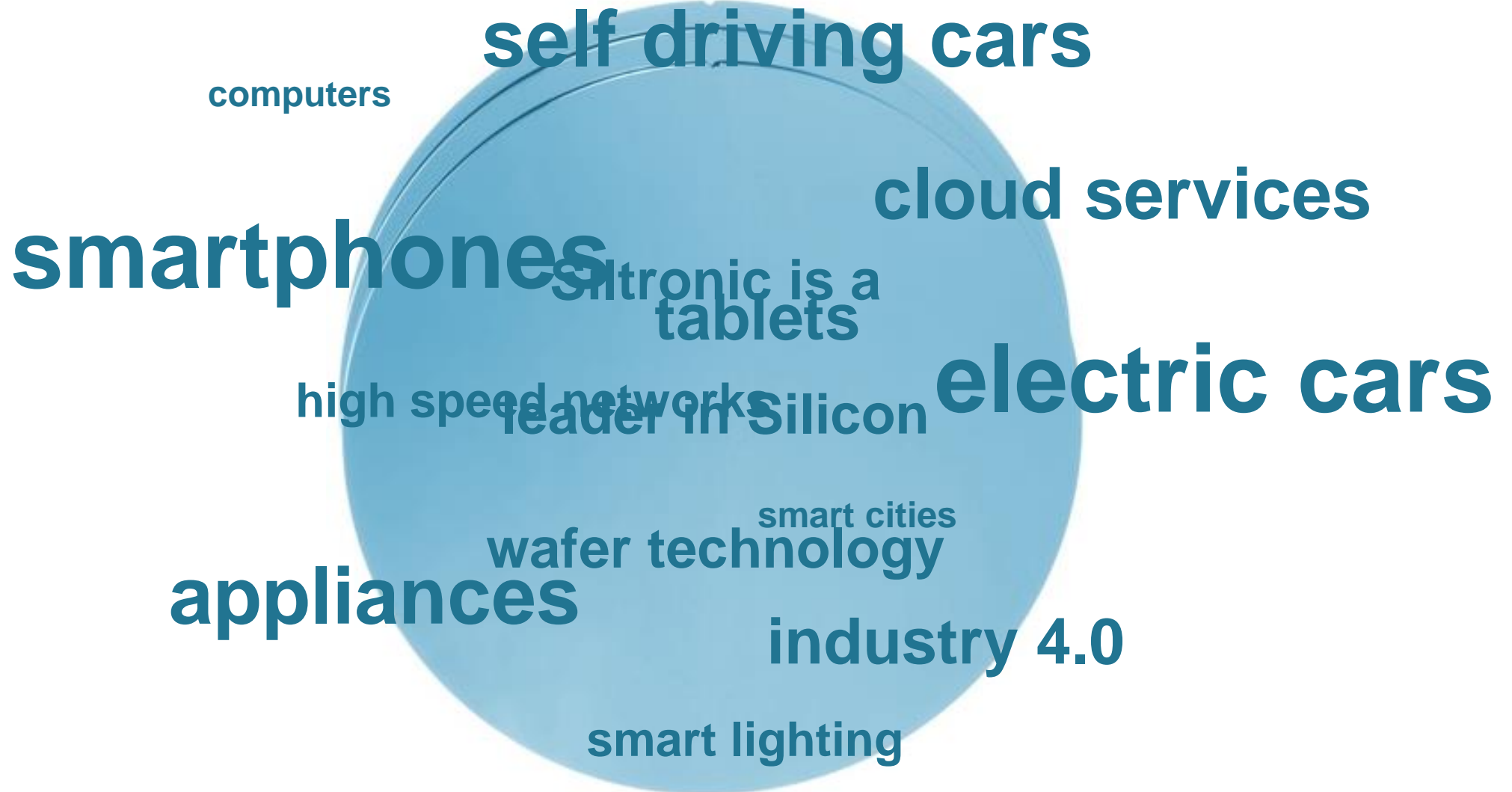
Source: IHS Markit Technology (Semiconductor Silicon Demand Forecast Tool, Q1'17 Update)

A person wearing a white cleanroom suit and a clear face shield is working in a cleanroom. In the foreground, a large, shiny, metallic, teardrop-shaped object is suspended from a chain. The object has a highly reflective surface and is positioned in front of the person. The background is slightly blurred, showing the cleanroom environment with various pieces of equipment and lighting.

END MARKETS

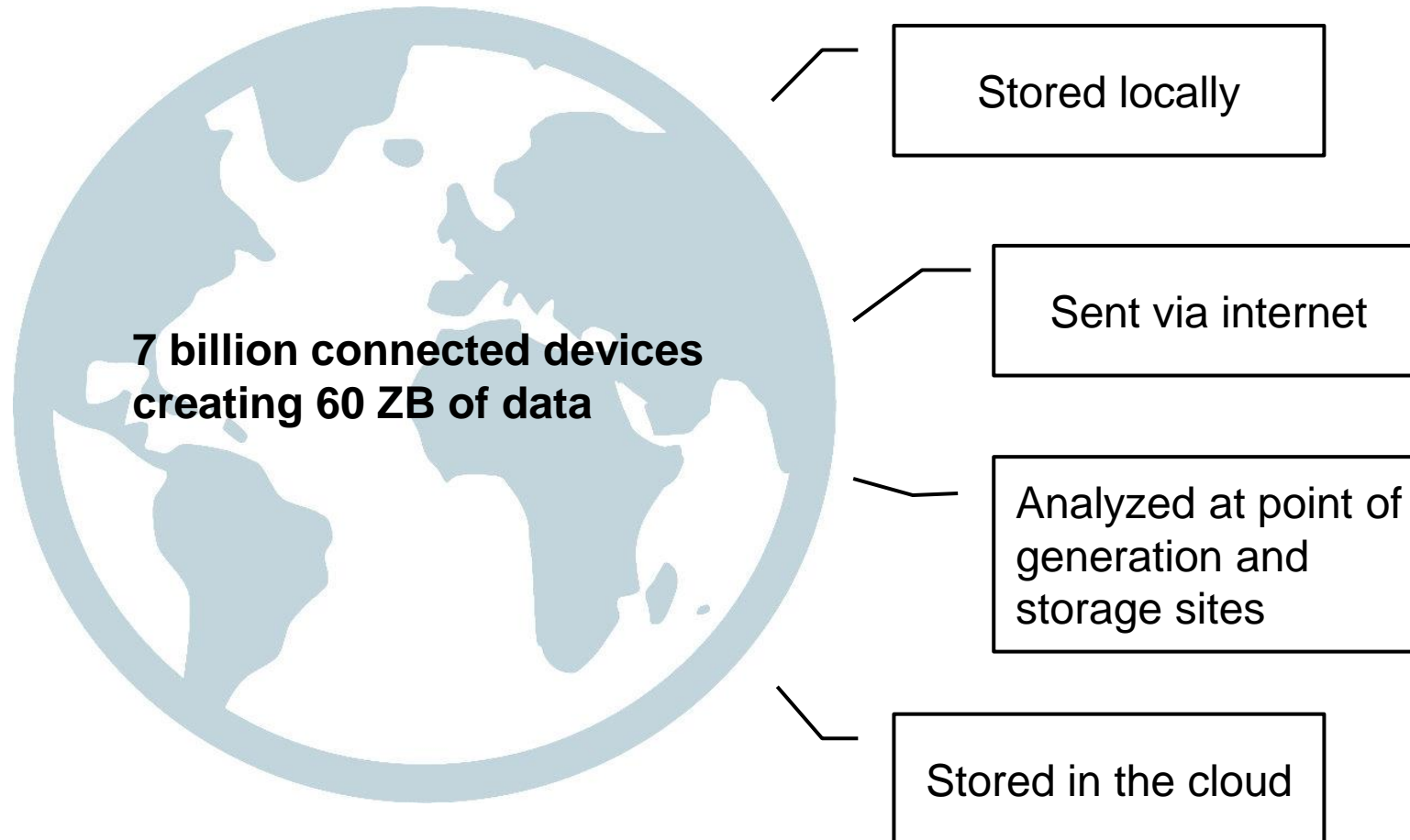
... are much more diverse
nowadays.

All electronics are based on silicon



Data explosion: An inflation of connected devices and sensors lead to an unprecedented increase of generation of new data

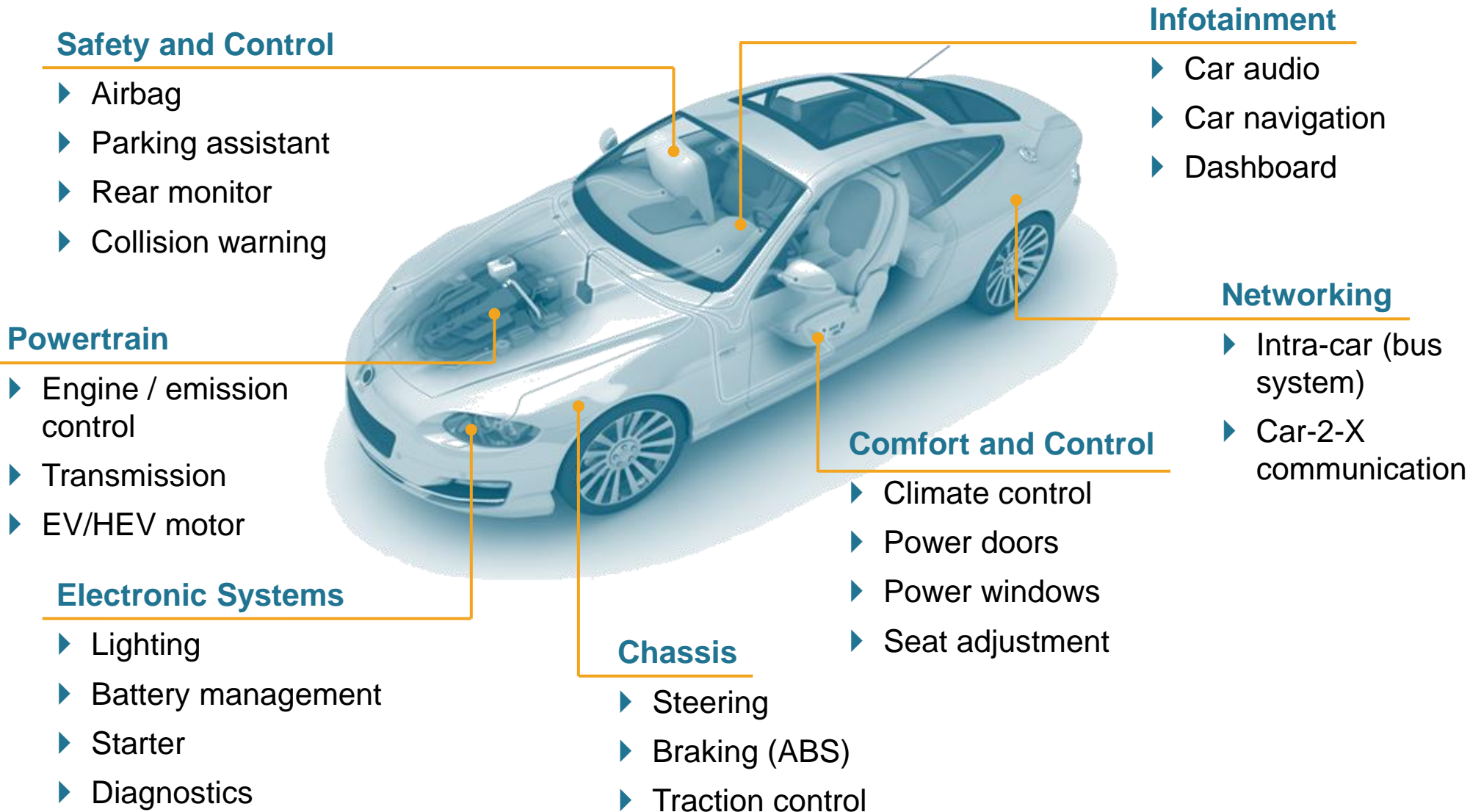
60 ZB of new data will be generated in 2021. Next year, more will be added...



▶ Transmit, store and process these data fuels silicon demand

Remember the good old Volkswagen Beetle...

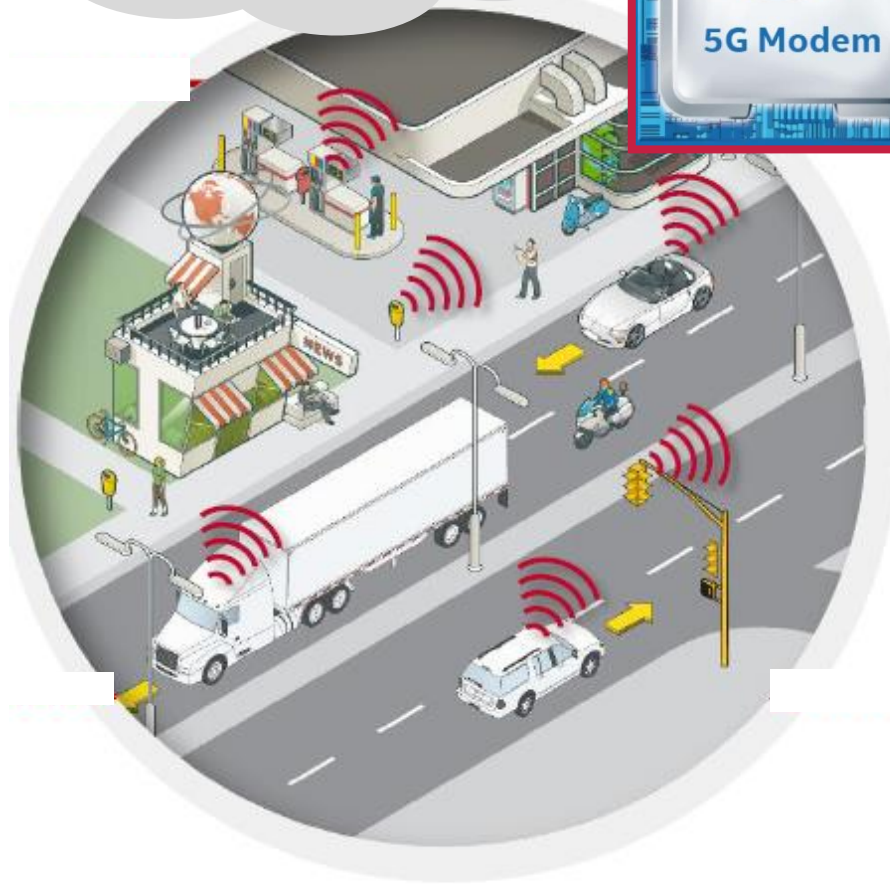
Modern passenger cars are stuffed with electronics



Source:McKinsey

Carmakers are working intensively on autonomous driving which will need even more silicon for infrastructure and networks

Cloud



Requirement for Connectivity

- ▶ High-definition map downloads in real time
- ▶ Sensor data uploads for machine learning
- ▶ Over-the-air firmware and software updates

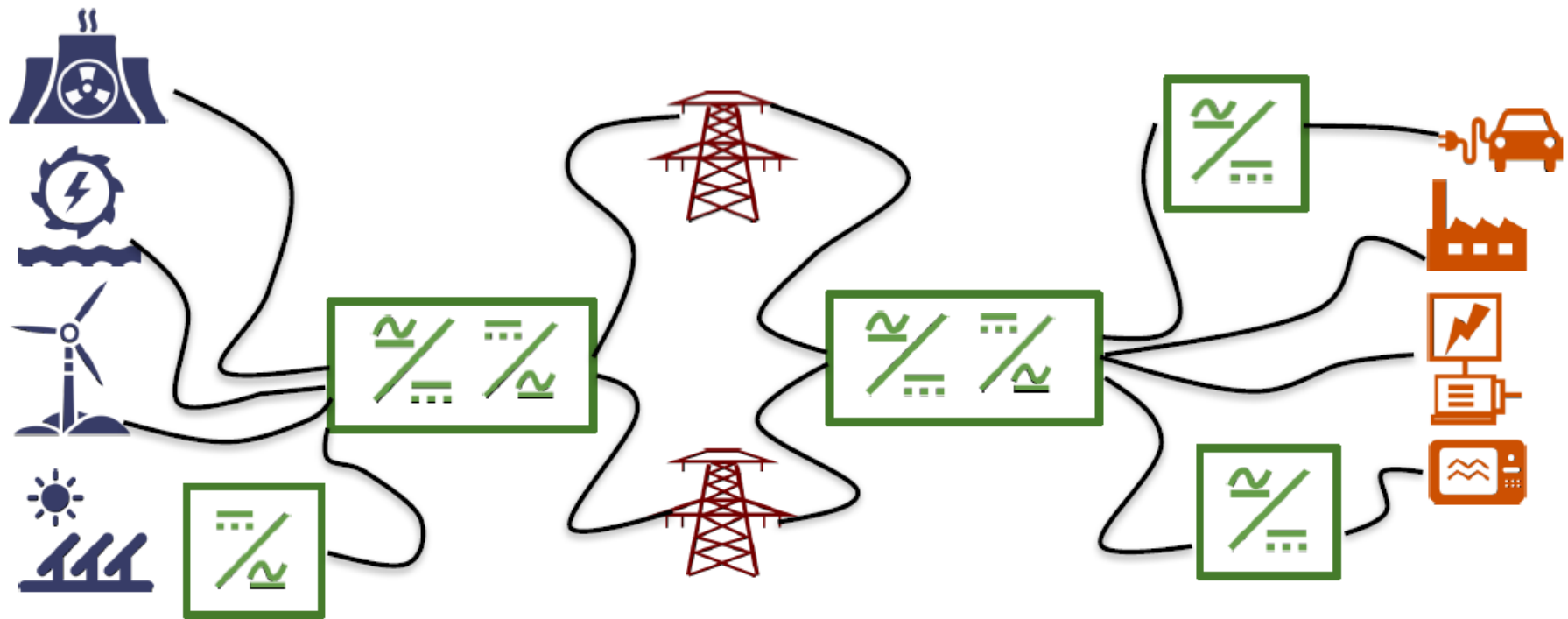
Benefit of 5G Network



- ▶ Faster speed: Handle massive amounts of data generated by autonomous cars
- ▶ Ultra latency: Max 10 GB per second (600 times faster than today's LTE*)
- ▶ Vehicle-to-vehicle and vehicle-to-infrastructure connectivity: Maximize use of available data, control traffic
- ▶ Intel® is offering Intel GO™ Automotive 5G platform for automakers' development

* Fastest average LTE speeds in the U.S.

Source: Audi EMFT-YOLE Sensors for IoT in Munich (Jul 2017); Intel News Fact Sheet (Jan 2017)

Power devices are everywhere – silicon based devices convert electricity multiple times before consumption

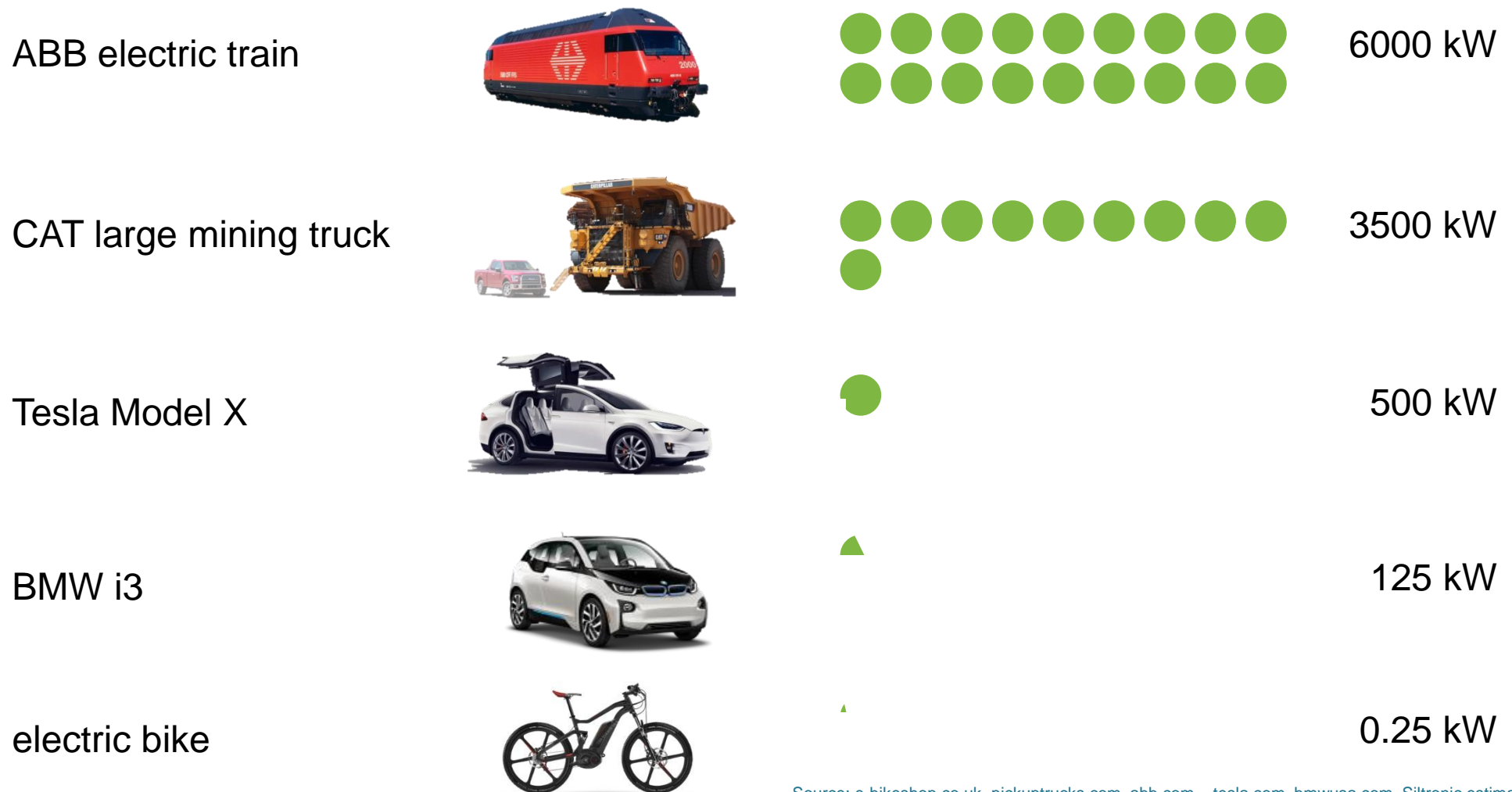


- ▶ Conversion of electric energy includes changing voltage, frequency and type of current (direct  vs. alternating ).
- ▶ Voltage ranges from hundreds of kilo Volts in power lines down to below 1 Volt in the logic chips within your smartphone.

Source: Basics of power electronics, Point The Gap

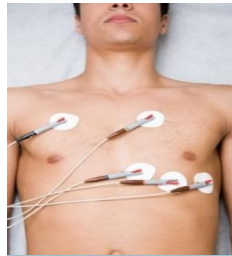
The more power, the more silicon is needed in the inverter: from fractions of a wafer in an e-bike to ~20 wafers in a train.

200 mm wafers



Source: e-bikeshop.co.uk, pickuptrucks.com, abb.com, , tesla.com, bmwusa.com, Siltronic estimates

Industrial semiconductor segment comprises a wide range of applications



Medical

- ▶ diagnostics and control
- ▶ imaging equipment
- ▶ laboratory test
- ▶ patient monitoring



Building & Home

- ▶ built in climate control
- ▶ lighting
- ▶ safety & security equipment



Manufacturing

- ▶ manufacturing equipment
- ▶ robotics
- ▶ process control equipment
- ▶ measurement instruments
- ▶ motor controls



Power & Energy

- ▶ equipment for energy production and distribution
- ▶ industrial power supplies
- ▶ energy meters



Aerospace & Military

- ▶ aircraft systems
- ▶ radar, sonar, avionics
- ▶ missile guidance
- ▶ military grade computers



Other Industrial

- ▶ power tools
- ▶ ATMs
- ▶ ships, golf cars, electric bikes and trains

Source: appliedmaterials.com



STAKEHOLDERS' BENEFITS

...shareholders to benefit
from improved financials.....

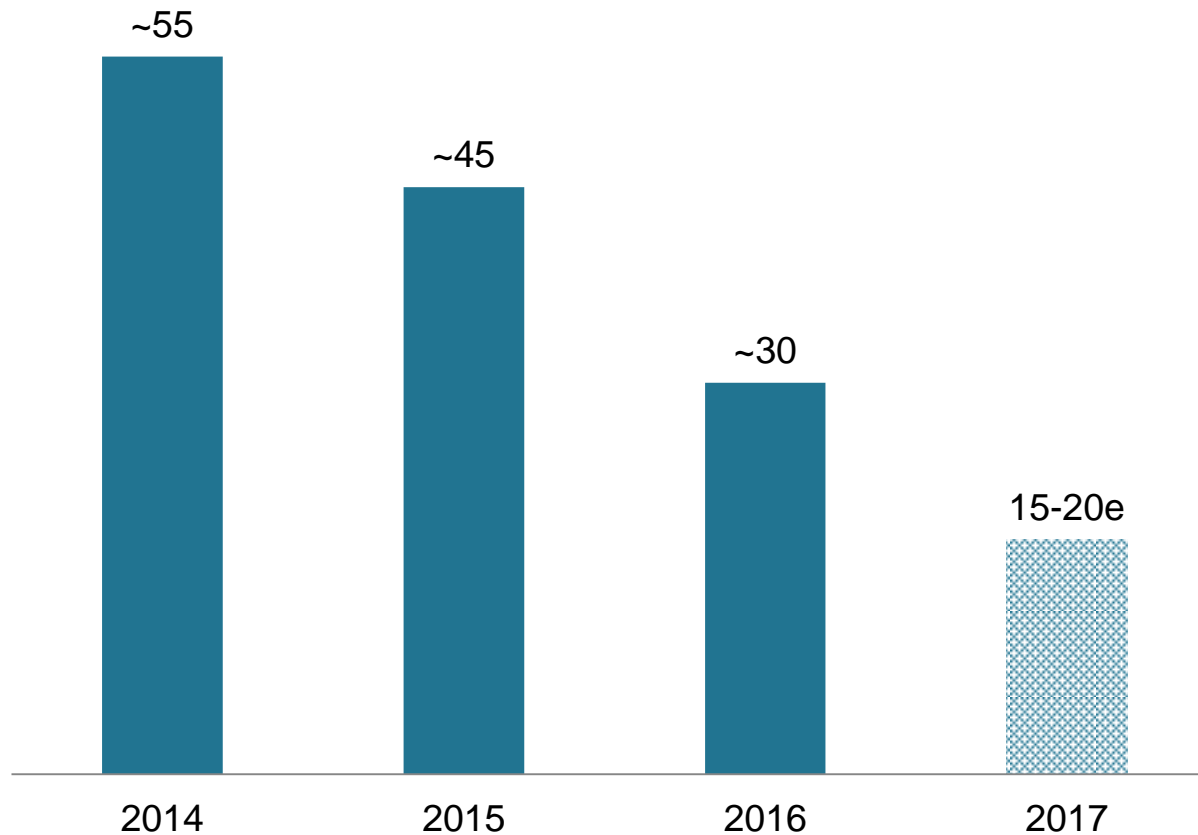
Financials improved strongly over the last years

Adjusted ¹ 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

¹ figures 2012-2014 adjusted for consolidation effects resulting from acquisition of SSW and restructuring

Successful cost reduction programs continue

Cost savings, in EUR million¹



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

¹ 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).

A disciplined approach to capital budgeting – priority is to support and secure our business

Capital budgeting priorities

Selective investment in our business

1. Capability improvement
2. Cost reduction
3. Debottlenecking and extensions

Continuously

Further strengthening our balance sheet

1. High cash position in semiconductors needed
2. Flexibility to quickly execute potential future strategic options

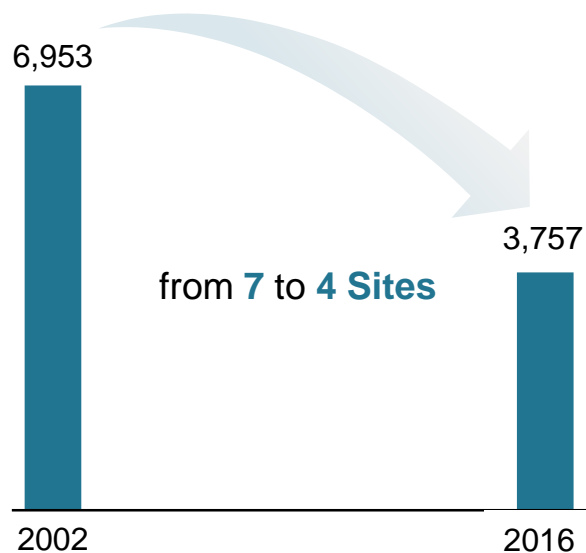
Strongly improved

Shareholder remuneration (dividends)

First dividend to be paid in 2018

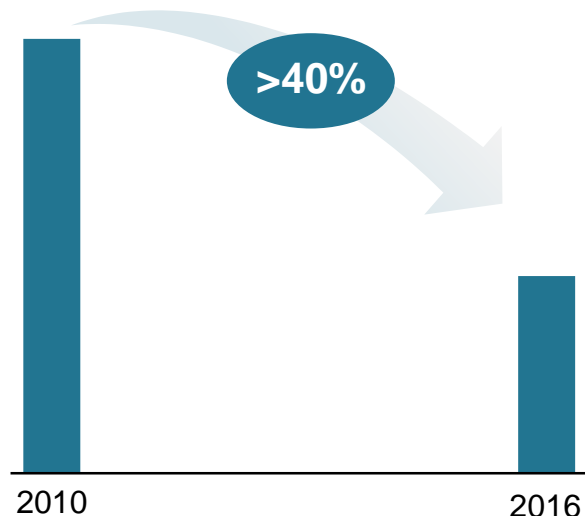
Outstanding Cost Reduction and Efficiency Improvement Track Record

Number of employees



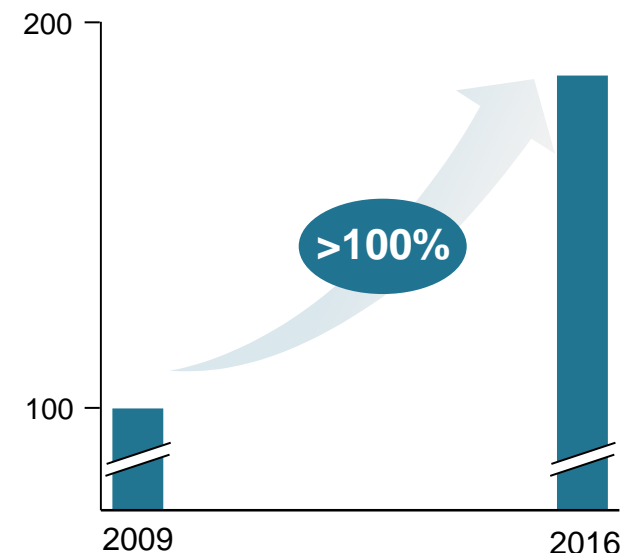
Successful restructuring including Germany

Variable costs of 300 mm wafer (Germany), in EUR / Wafer



More than 40% reduction of the variable unit costs in 300 mm wafer

300 mm Productivity¹ (Germany)

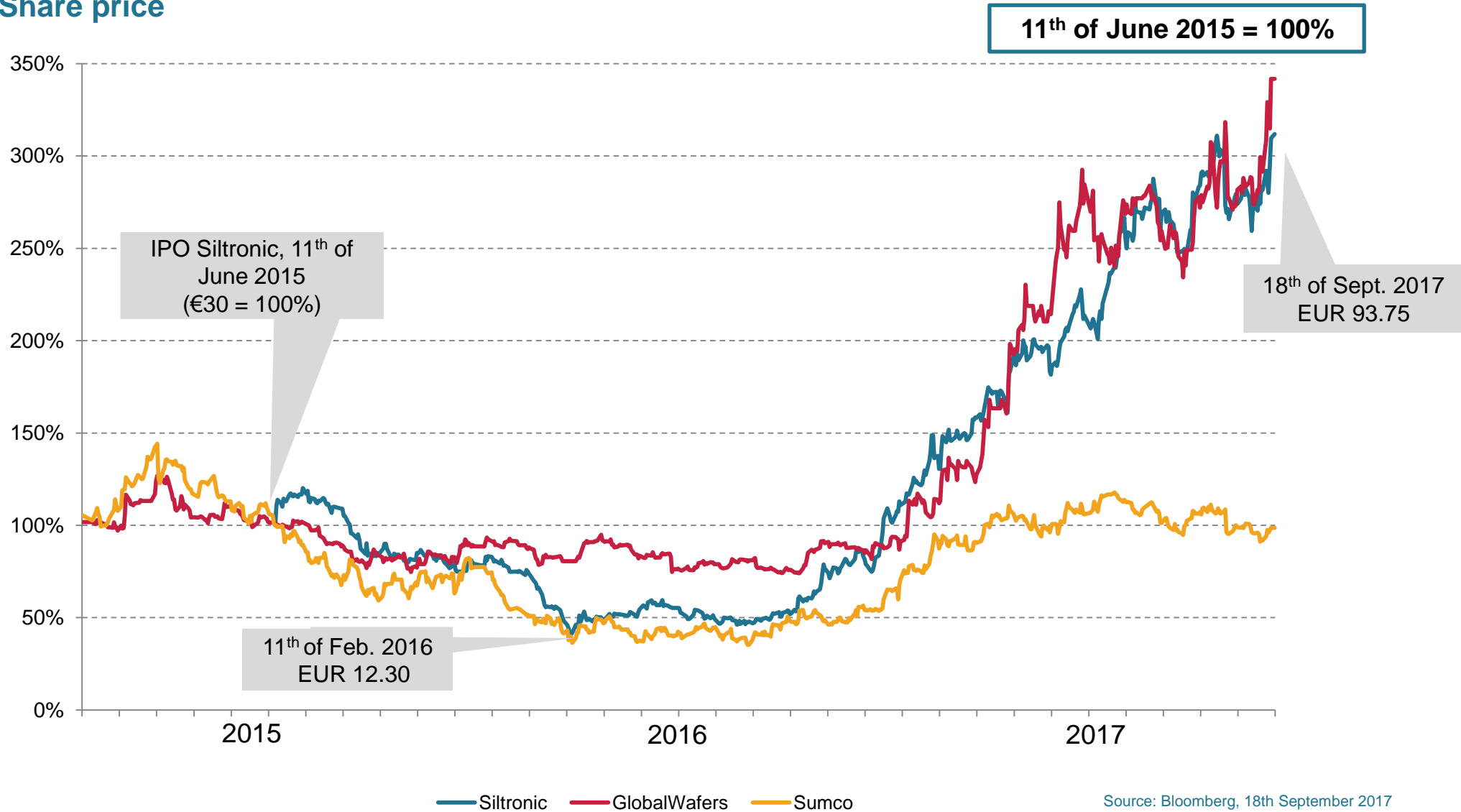


Almost 100% increase of employee productivity in 300 mm wafer

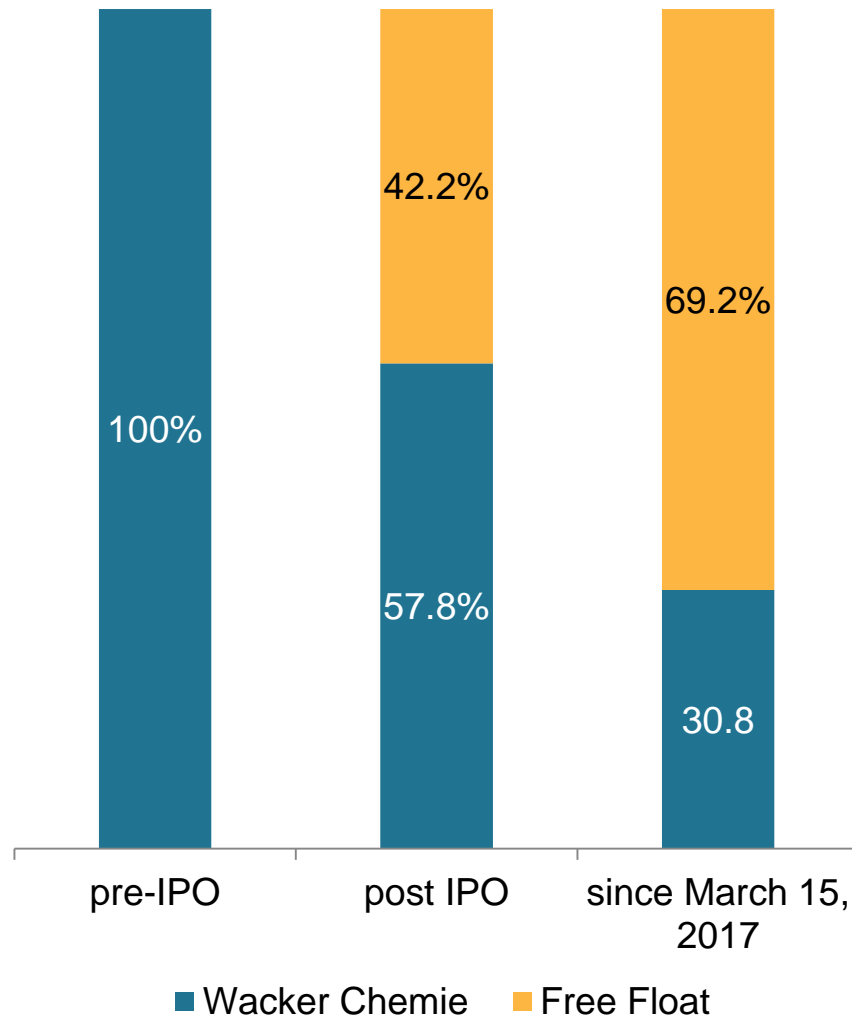
¹ Delivered wafer / paid hours (2009 = 100)

Siltronic share price more than tripled since IPO

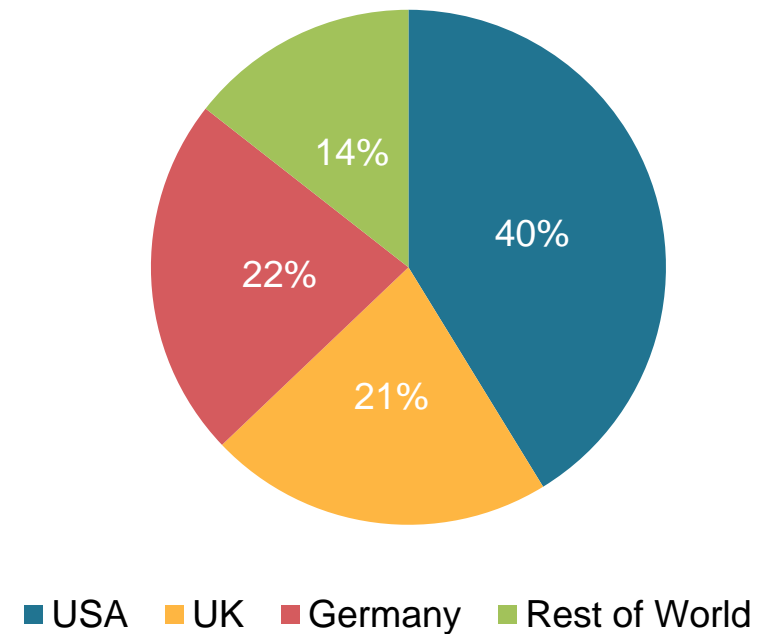
Share price



Shareholder structure



Identified freefloat per region
(as of March 30, 2017)



Investment Highlights – Siltronic Strengths

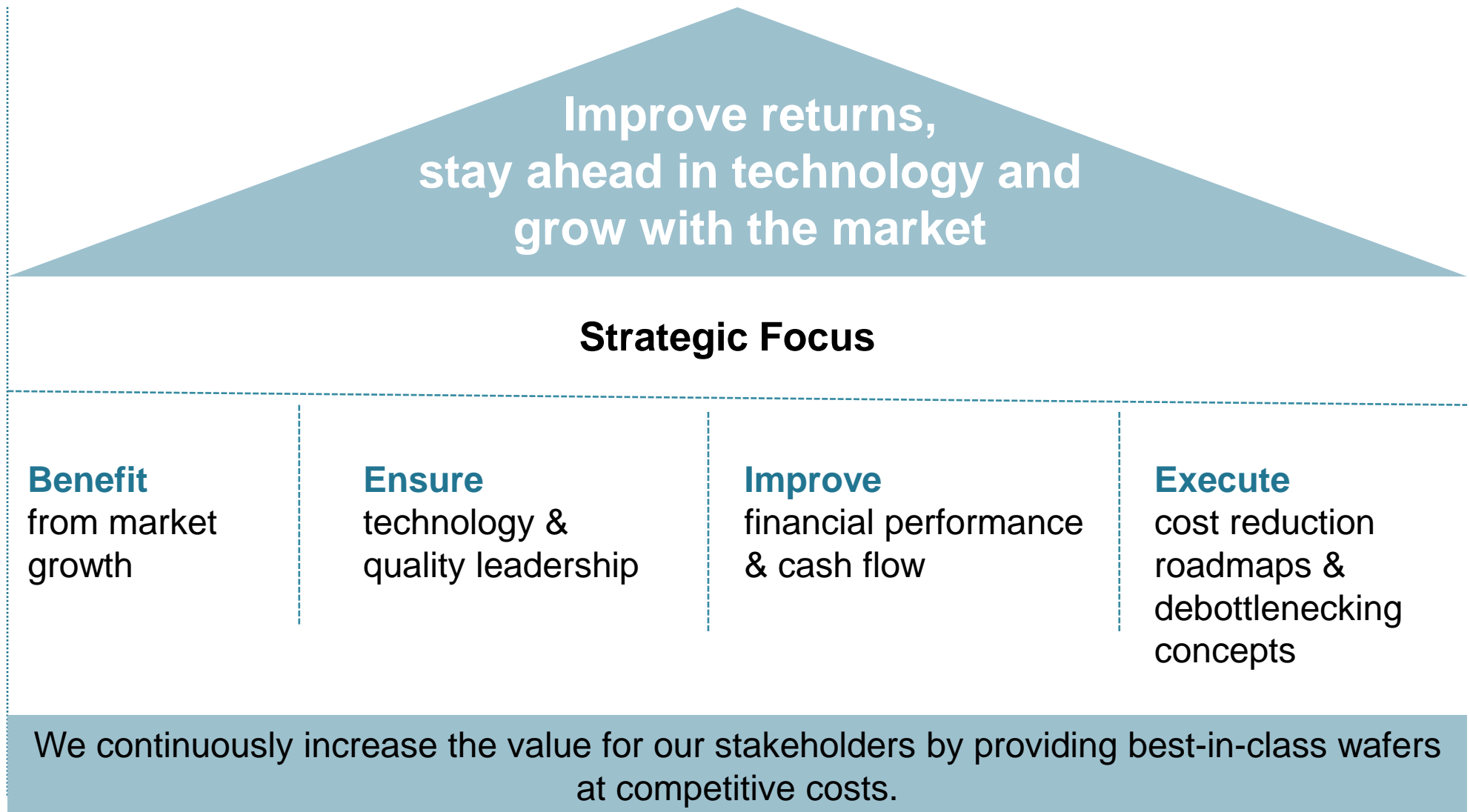
- 1 Strong market position in semiconductor silicon wafer manufacturing**
- 2 Technology and quality leader**
- 3 Supplier to all top 20 silicon wafer consumers with well-established relationships**
- 4 Strong track record in efficiency improvement and cost reduction**
- 5 Strategic supply of high-quality polysilicon at competitive cost**
- 6 Experienced management team and highly skilled workforce**



STRATEGY

.....no change in our proven strategy while enjoying improving returns.....

Siltronic strategy - capitalize on market opportunities while focusing on 300mm & technological leadership by growing with the market



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Additional Information

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Deutsche Börse:	WAF
Listing:	Frankfurt Stock Exchange Prime Standard

Financial Calendar

Full Year 2017 Results	March 5, 2018
Annual General Meeting	April 19, 2018
Q1 2018 Results	April 25, 2018
Q2 2018 Results	July 25, 2018
Q3 2018 Results	October 25, 2018



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