

# Siltronic AG

## Factbook

December 18, 2023

# Content

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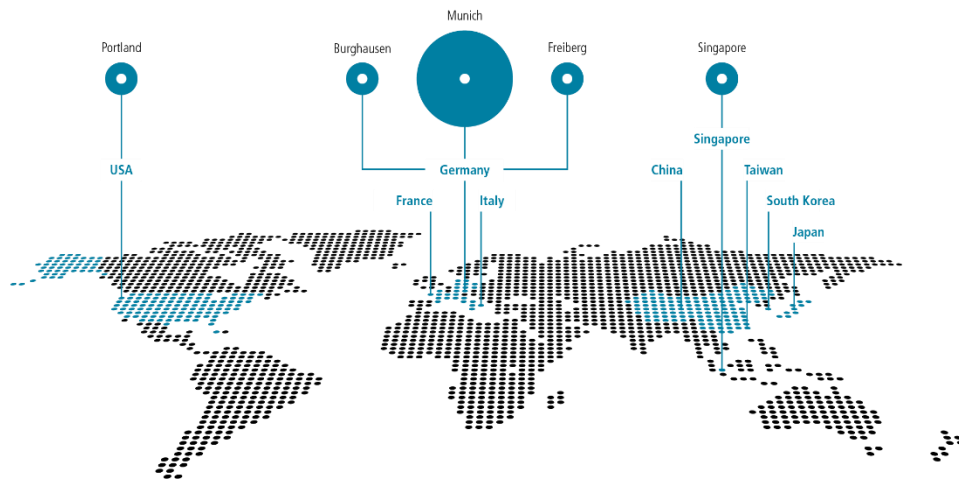
- ▶ **Company and market overview**
- ▶ **Siltronic – one of the industry technology leaders**
- ▶ **Strategy**
- ▶ **Sustainability**
- ▶ **Employees**
- ▶ **Financials & investment rationale**
- ▶ **Siltronic share**
- ▶ **Corporate Governance**
- ▶ **General information**

A close-up photograph of a microchip, showing its intricate circuitry and a sharp, pointed tip. A large, semi-transparent blue circle is overlaid on the left side of the image, partially obscuring the chip. The background is blurred, showing what appears to be a laboratory or industrial setting.

## COMPANY AND MARKET OVERVIEW



# Siltronic at a glance



4 world-class production sites



~ 4,500 employees



global scale and reach



50+ years of history in silicon technologies

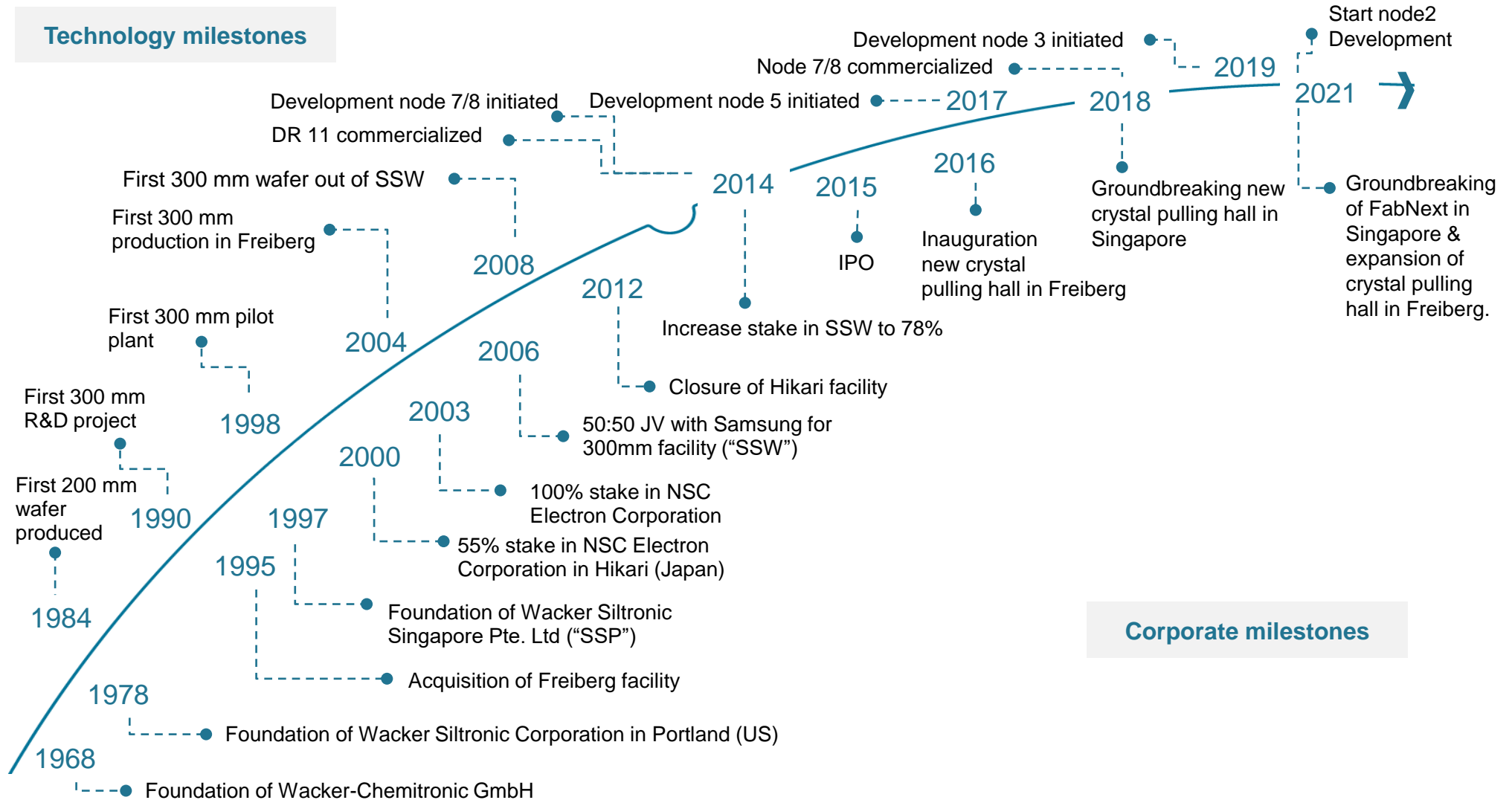
## Key financial figures 2022

- ▶ Sales: EUR 1,805.3 million
- ▶ EBITDA: EUR 671.6 million
- ▶ EBITDA margin: 37.2%
- ▶ Net cashflow: EUR -395.4 million
- ▶ Net financial assets: EUR 373.6 million

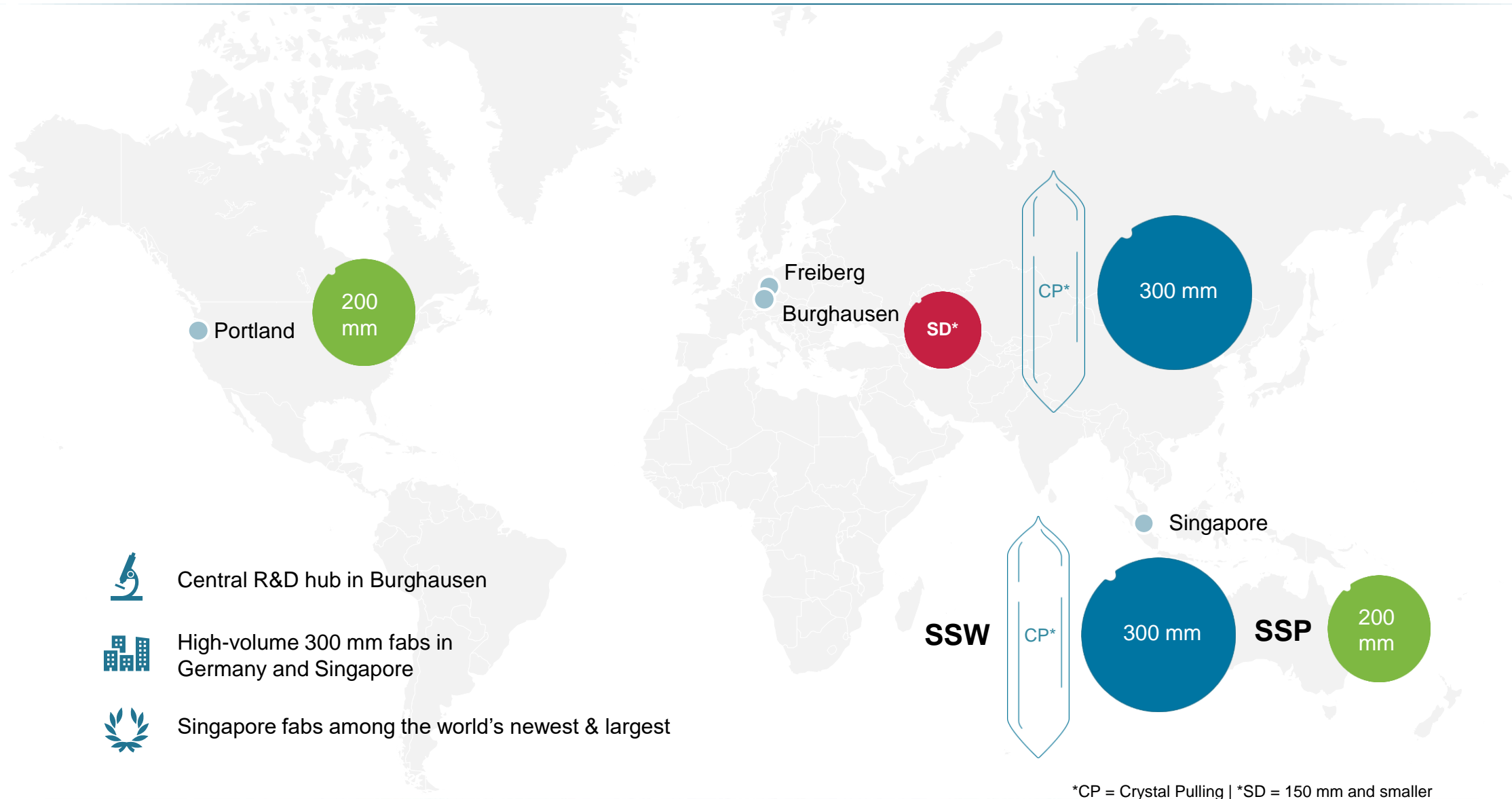


= Production sites, Headquarter in Munich

# More than 50 years of experience in the semiconductor industry

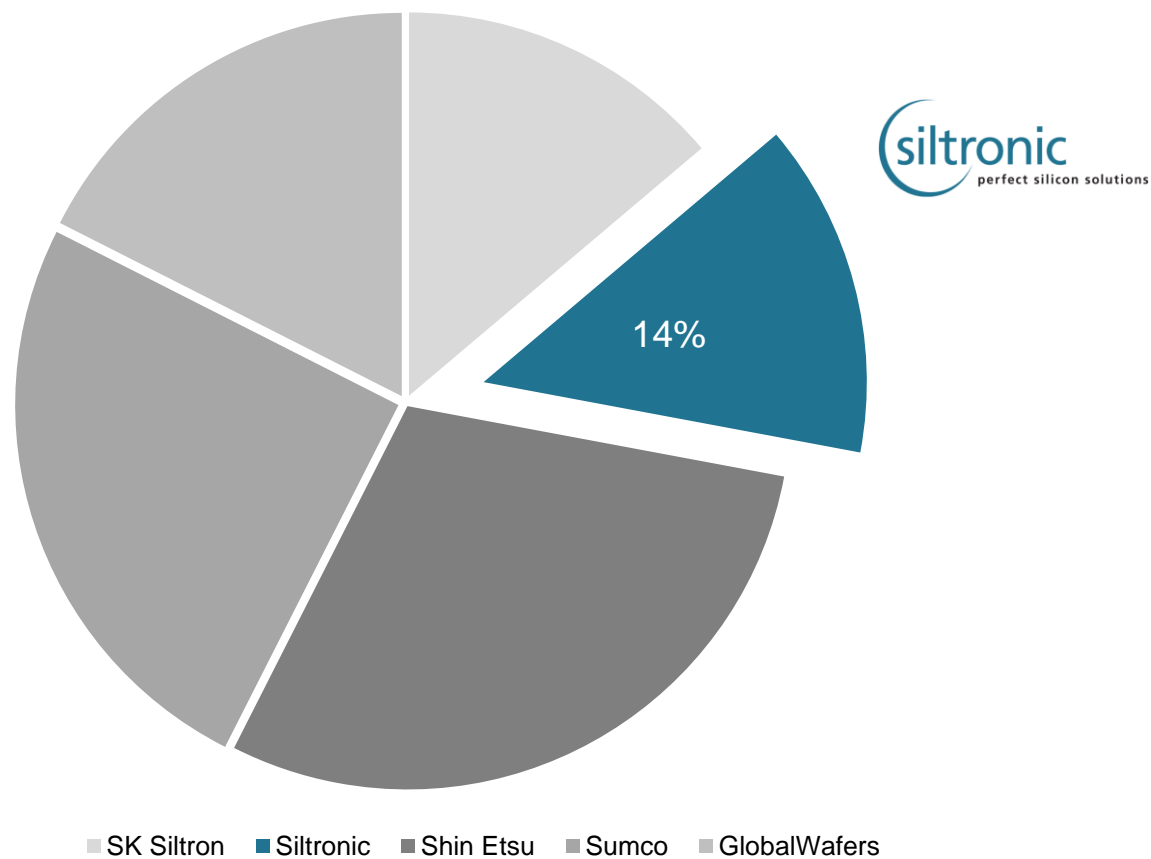


# International manufacturing network supports strong market position and business focus



# Consolidated market with 5 major wafer manufacturers

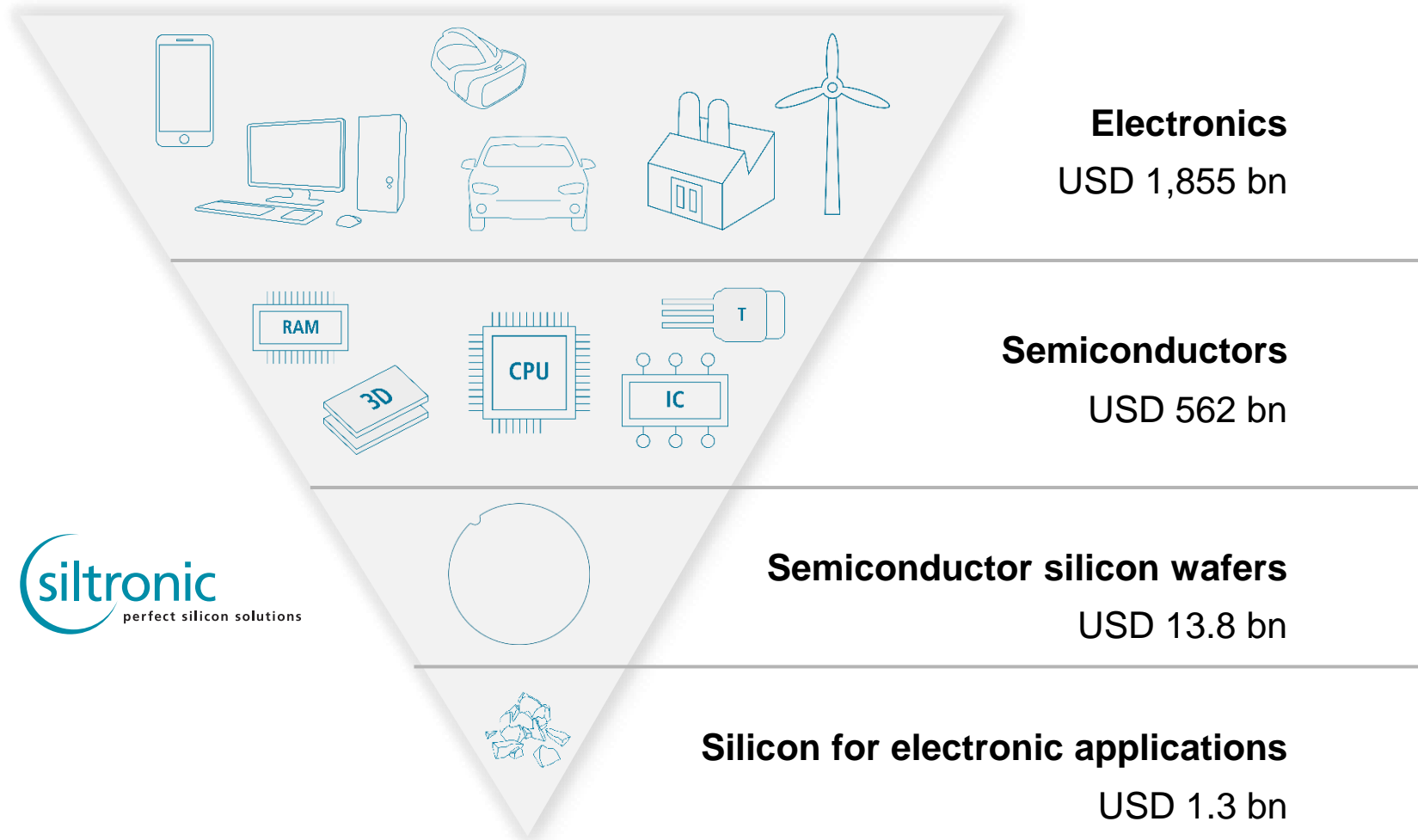
Top 5 wafer producers serve up to 90% of the market across all diameters



Source: Siltronic estimates 2022

# Electronics value chain continued to grow in 2022

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

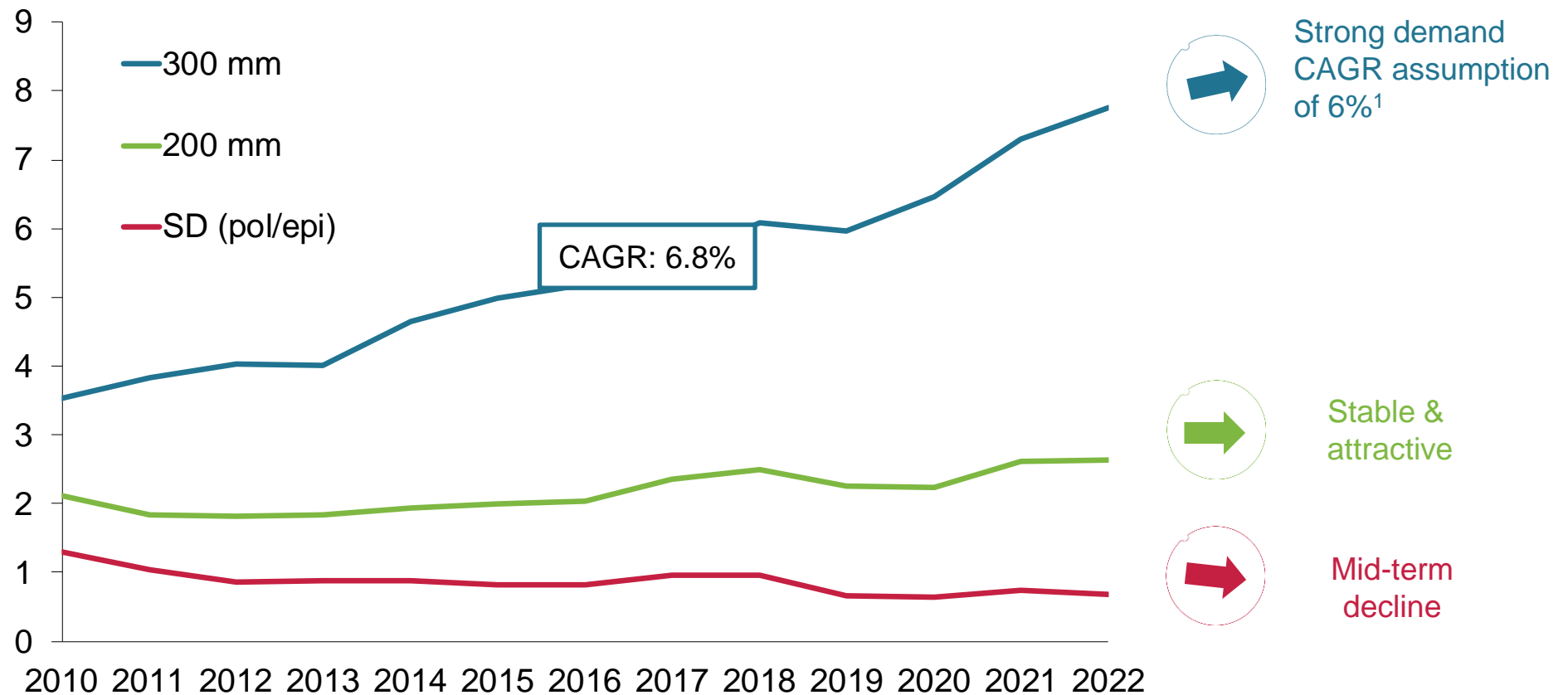


Sources: TechInsights, WSTS (Si based), SEMI SMG, Siltronic Marketing



# Siltronic is focused on growing 300 mm (6% in 2022) and attractive 200 mm business

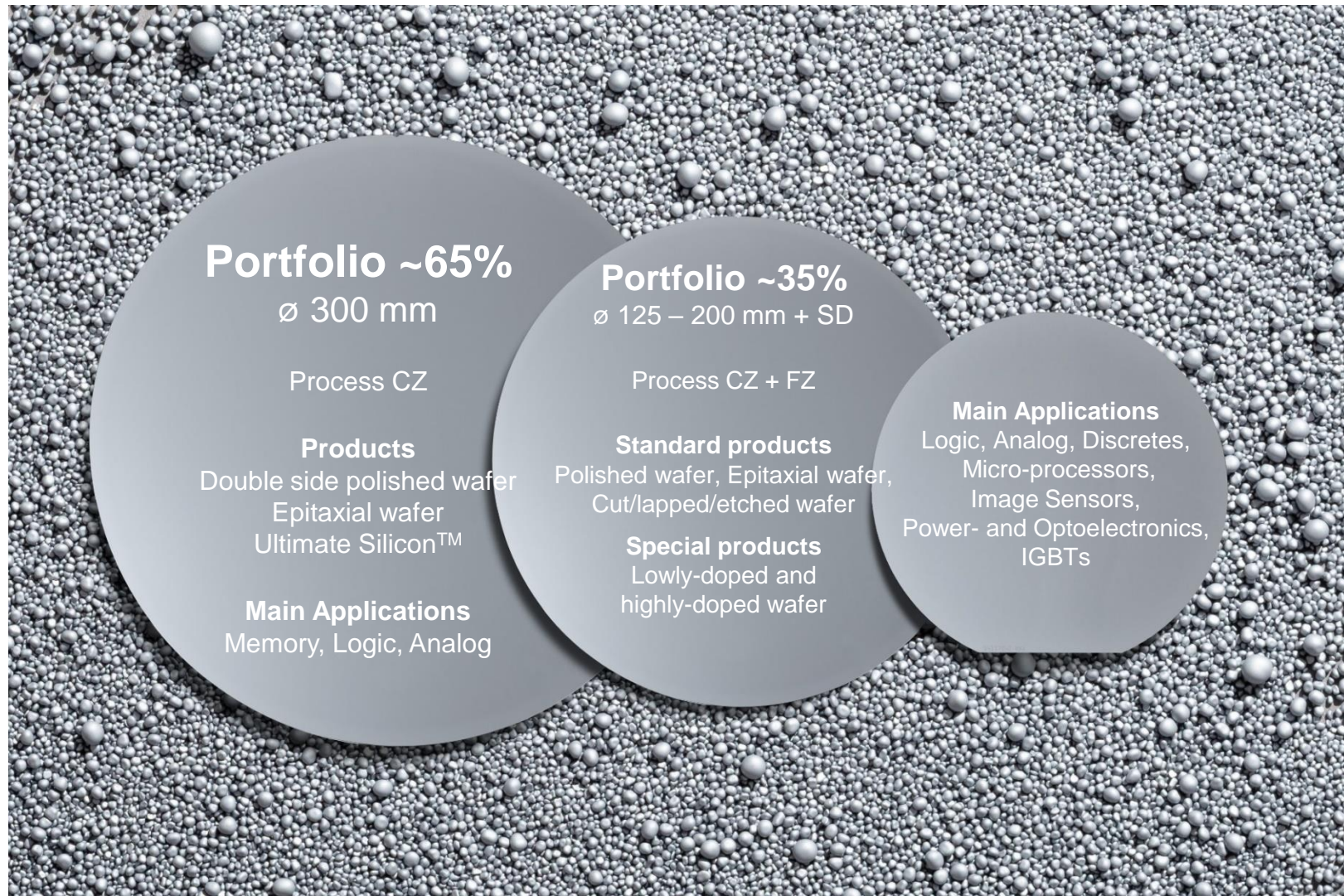
Development of Total Wafer Demand per Diameter, in mn 300 mm equivalents per month



Source: SEMI up to Dec 2022

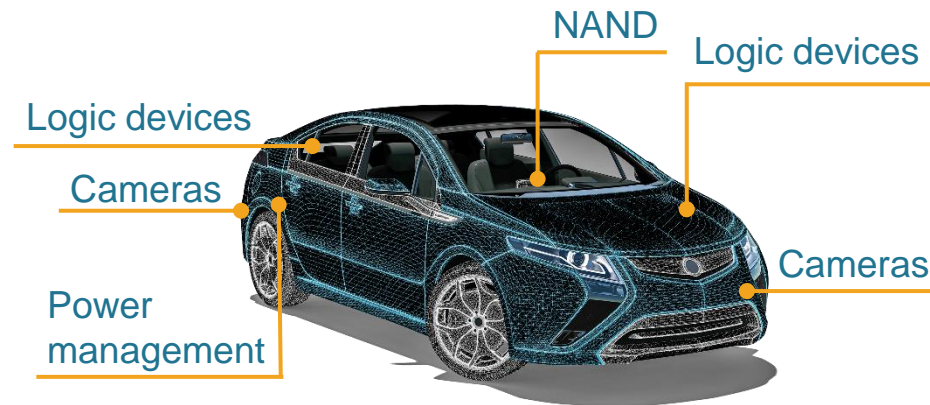
1) mid- and long term CAGR assumption, current 2023 market estimates below 6%

# A broad product portfolio covers standard and leading-edge requirements of the customers



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

# Electronic equipment contains multiple devices built on tailormade silicon substrates



Pictures: AdobeStock\_181844841; AdobeStock\_55587517; AdobeStock\_218649399



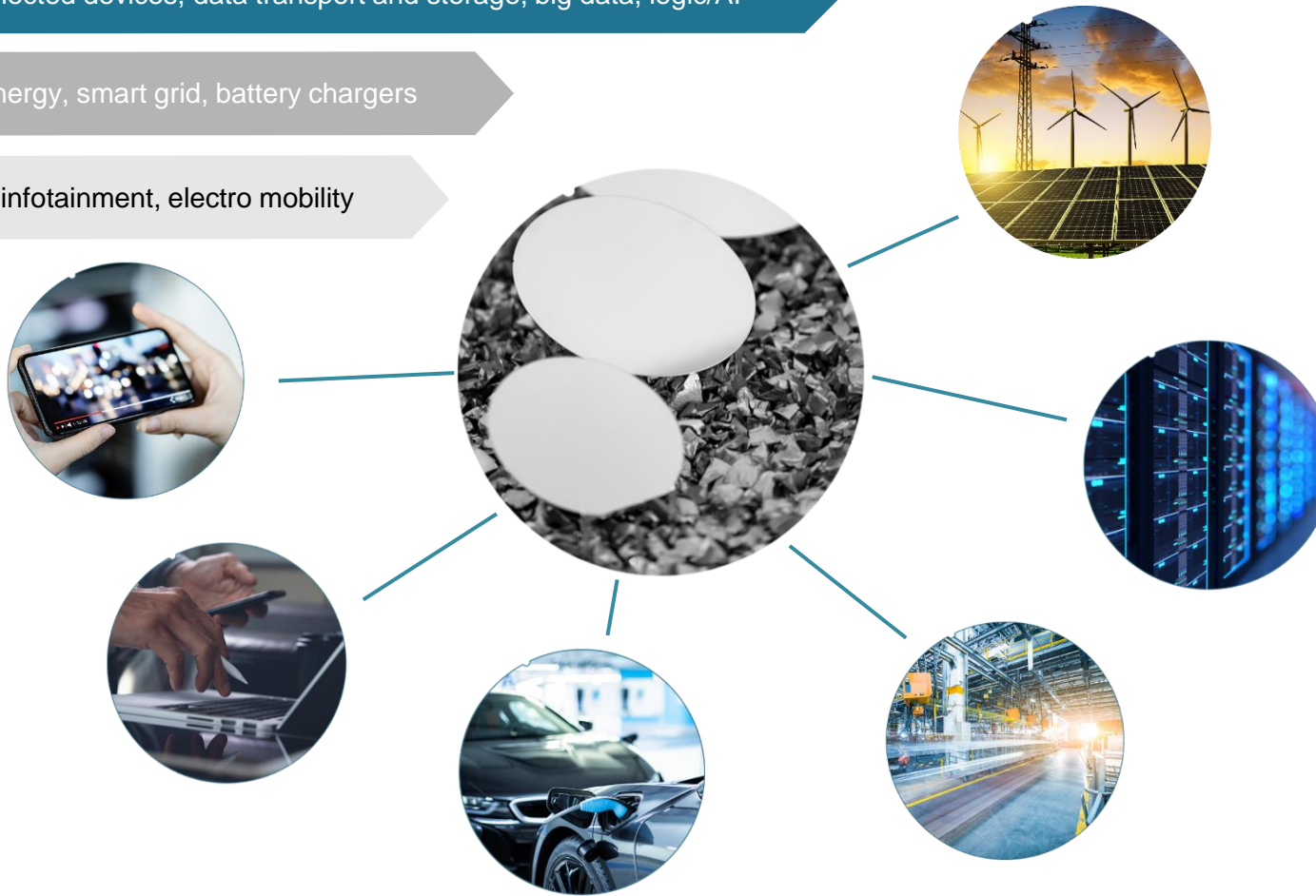
# New applications for electronic devices and the infrastructure to support them continue to drive silicon demand

## Current growth drivers include

**Data explosion:** connected devices, data transport and storage, big data, logic/AI

**Power:** renewable energy, smart grid, battery chargers

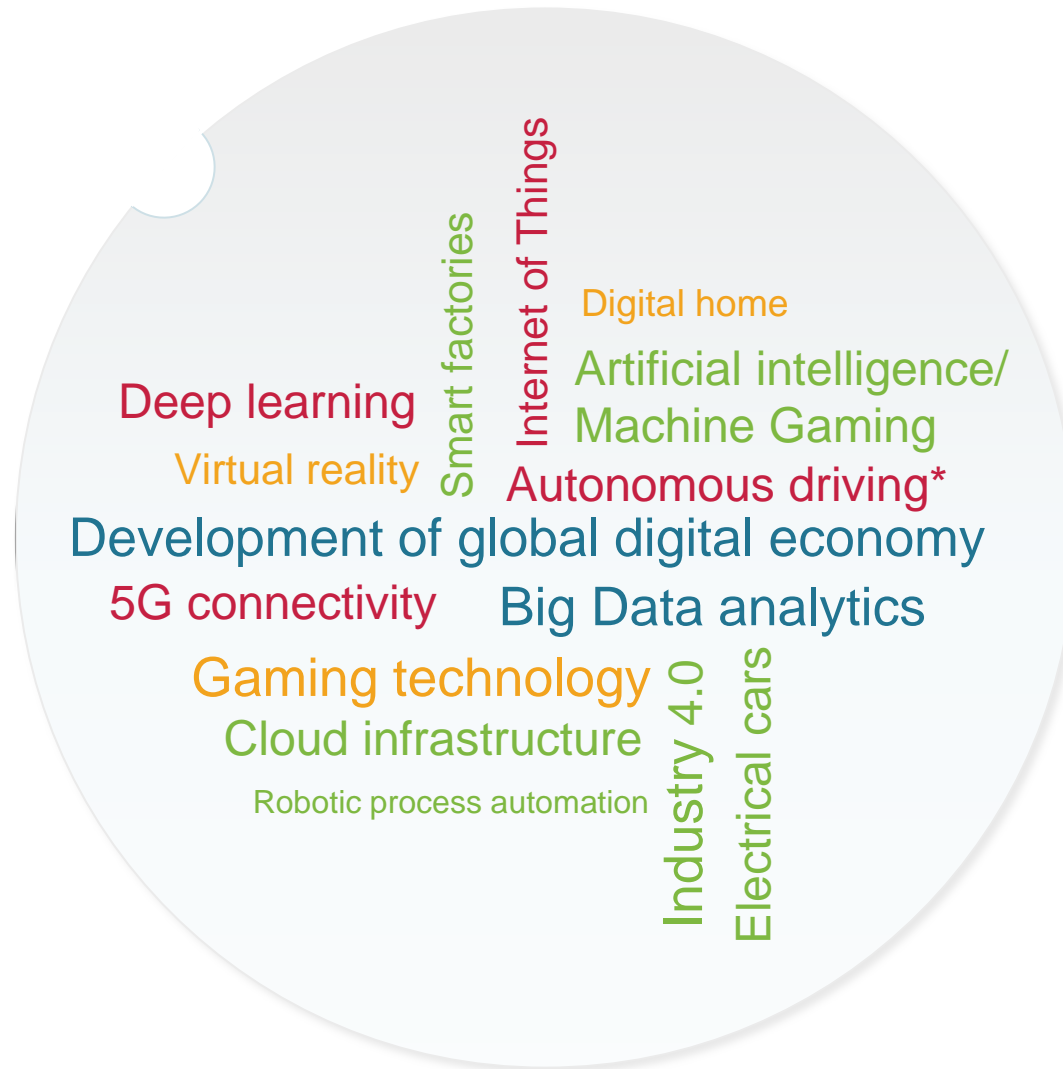
**Automotive:** ADAS, infotainment, electro mobility



Pictures: coolhand118/stock.adobe.com, tippapatt/stock.adobe.com, monsitj/stock.adobe.com, Wellnhofer Designs/stock.adobe.com, 安琦 王/stock.adobe.com, AdobeStock\_101580295

# Global megatrends drive sustained increase in wafer area

Devices become increasingly intelligent and see continuous improvement in functionality and energy efficiency



\*assistance system

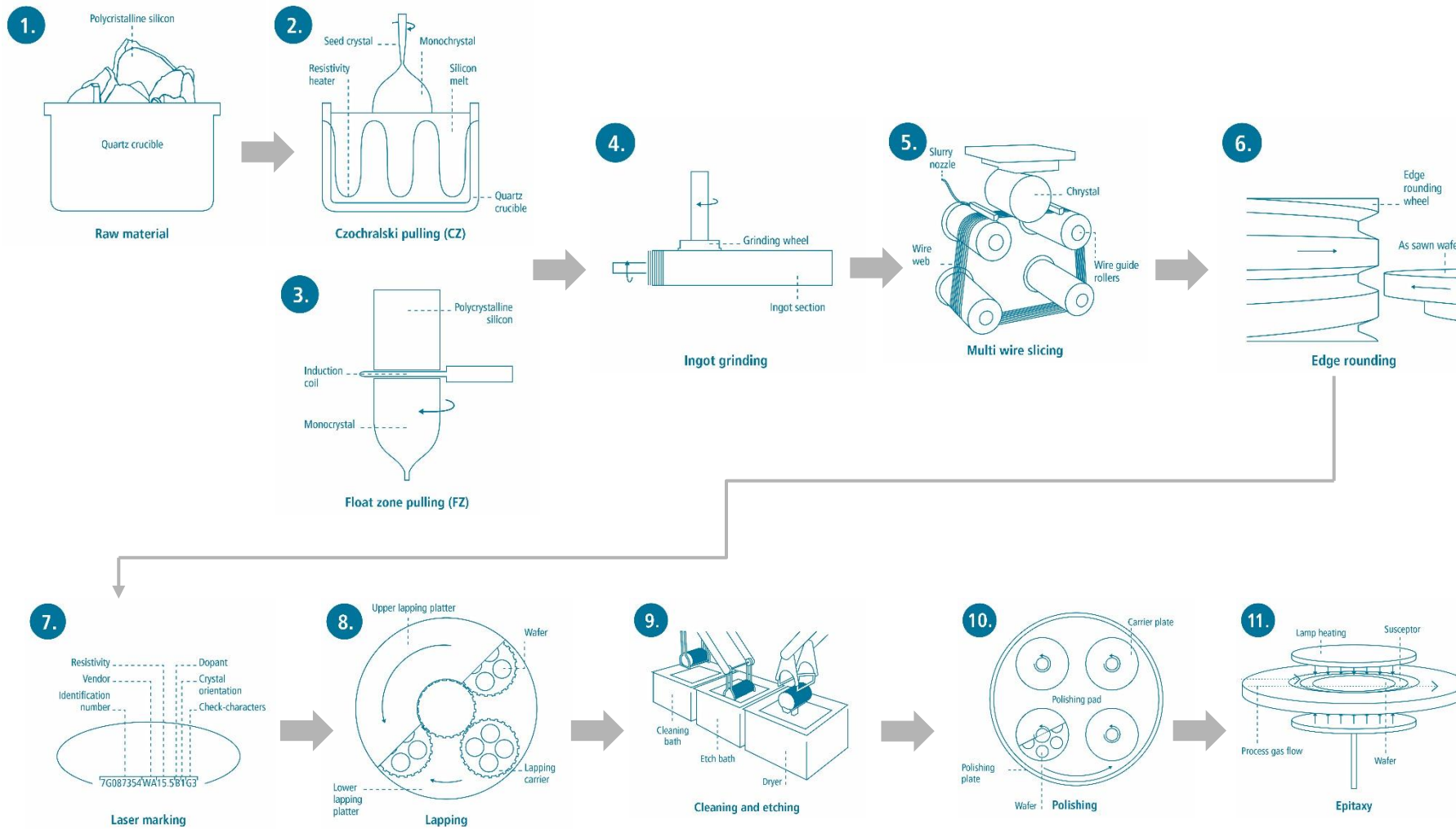




**SILTRONIC - ONE OF THE  
INDUSTRY TECHNOLOGY  
LEADERS**



# Wafer production process



# Top technology position complemented with a high level of quality

## A leading position in wafer technology

- ▶ Commercialization of 3 nm node started in 2022
- ▶ Development of 2 nm node started in 2021 (commercialization expected to start in 2024)
- ▶ Concurrently optimizing on 50+ wafer parameters of each design rule
- ▶ Single wafer traceability for 300 mm
- ▶ Standardized processes across sites enabling “copy exactly” at product level

## R&D expenditure, in EUR mn (% of sales)



>400 R&D employees worldwide



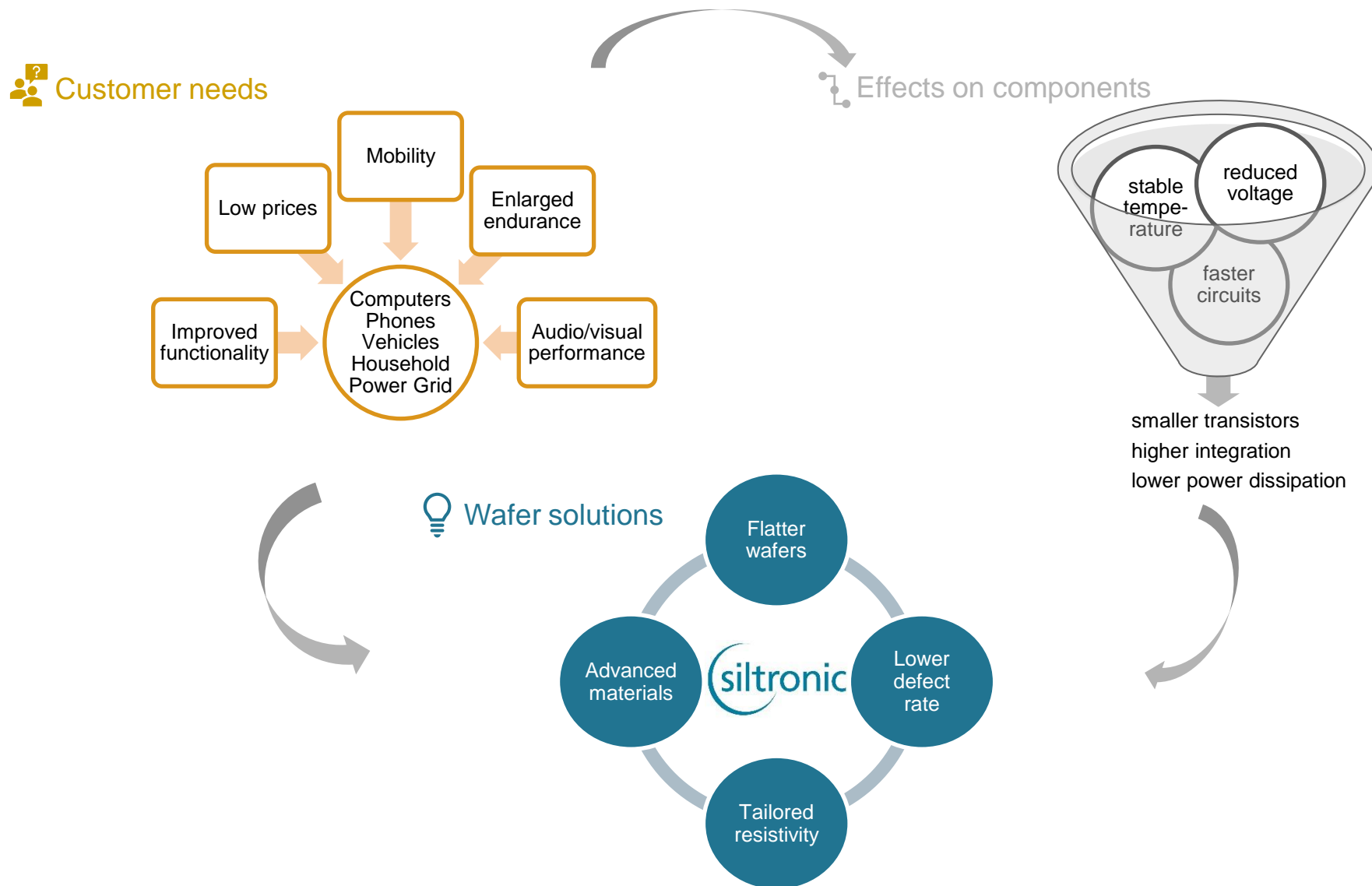
Approximately 1,890 pending and active patents in almost 350 patent families\*

## Quality awards from several top semiconductor customers received over the years



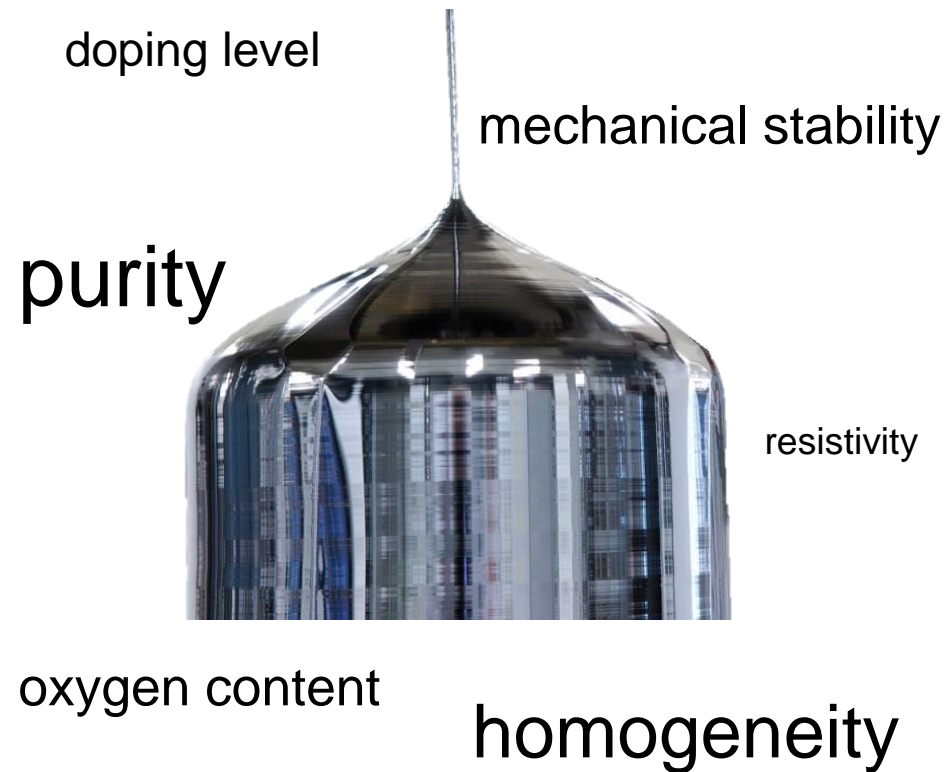
\*as of December 31, 2022

# Siltronic is continuously improving its wafer solutions to match customer needs

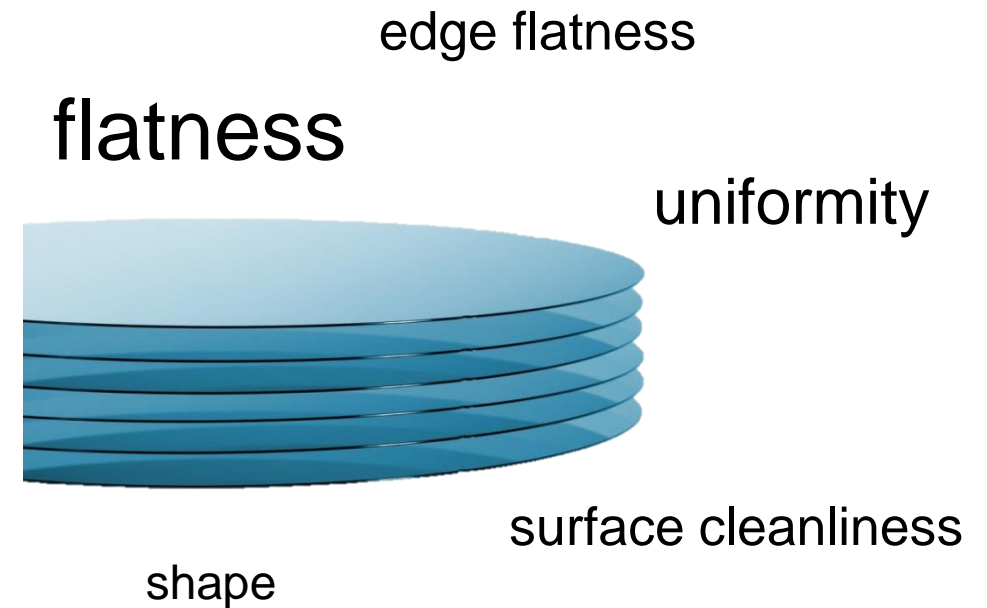


# A number of key ingot & wafer properties define the wafer specification and its further use by the customer

## Ingot



## Wafer

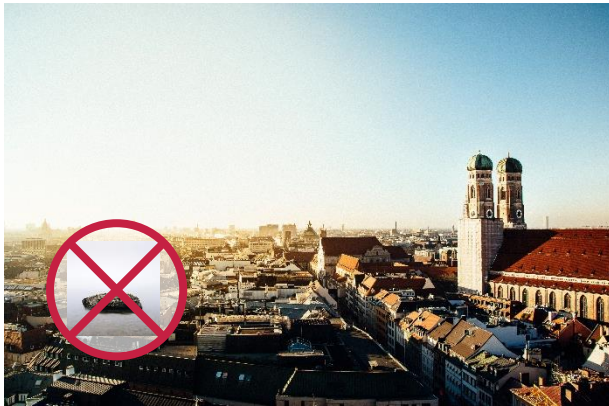




# Purity and flatness requirements for wafers are extreme, as scaling them into the macro world shows

## Particles

- ▶ Particle size specified in the nm range. Requirements are equivalent to a maximum of 10 grains of sand distributed over the city of Munich - and no pebble or rock



## Flatness

- ▶ 20 nm on a wafer are equivalent to the height of a leaf on the surface of Lake Chiemsee – or a single bacteria on a tennis court.



## Impurity

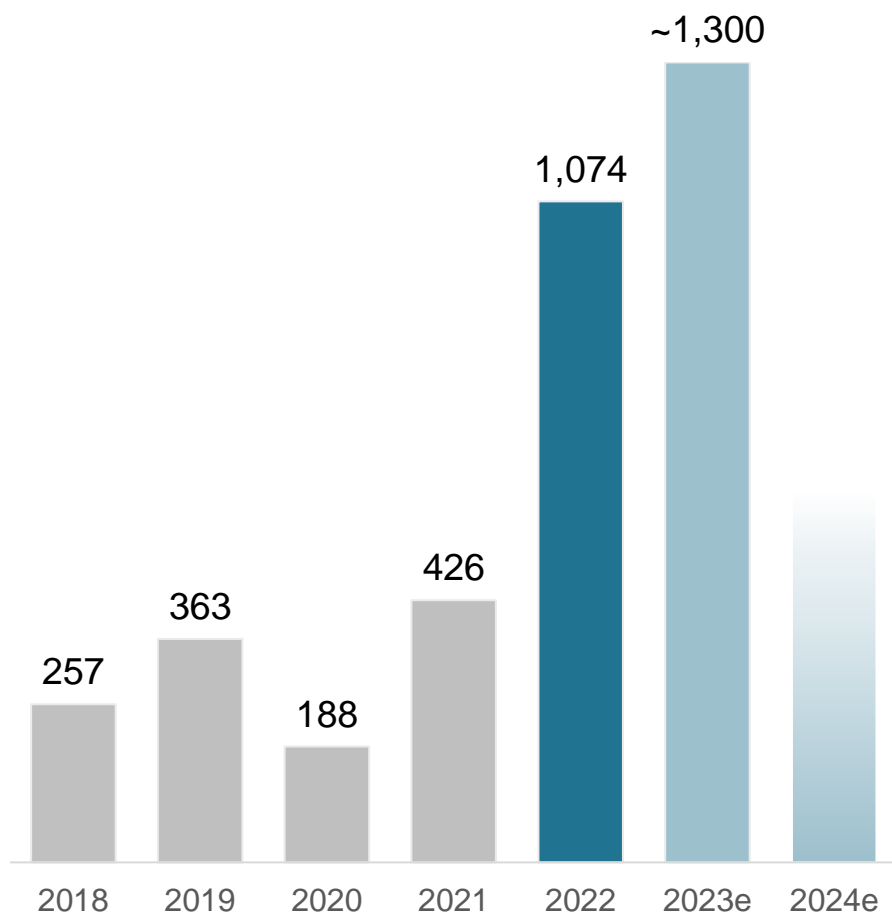
- ▶ „parts per trillion“ (ppt) is equivalent to a sugar cube diluted in a small lake – or a single grain of salt in a tank truck



Source: Adrian Infernus jzfokclaRIw/Stock.adobe.com, ChrisF/Stock.adobe.com, mw-luftbild.de/Stock.adobe.com, Yeti Studio /Stock.adobe.com; dave-hoefler\_VikL1IKXAI-unsplash; philipp-bachhuber-dgWixsytiYA-unsplash ;

# Major Capex in 2023 (mostly for FabNext) will fuel future growth

## Investment, in EUR mn



## Comments

### Capex

- ▶ Capex 2023 for FabNext, extension of crystal pulling hall in Freiberg (inaugurated in September) and capability enhancement
- ▶ Capex 2024 will be reduced by more than half

### Conservative Financing Approach

- ▶ Existing cash and future operating cash flows
- ▶ Customer prepayments
- ▶ Financial debt

# FabNext first wafers to be produced soon - Freiburg pulling hall inaugurated in September



- First wafers to be produced soon
- 📋 Focus on qualifying customers
- 📈 High share of LTA, 80% during ramp phase
- 📉 Ramp speed for 2024 and 2025 slightly adjusted as communicated in Q2
- € EBITDA-Margin above 50% mid-term with growing impact on Group Margin during ramp

- ✓ Extension of crystal pulling hall inaugurated
- € Several hundred million euros invested
- 🏆 Product mix improvement

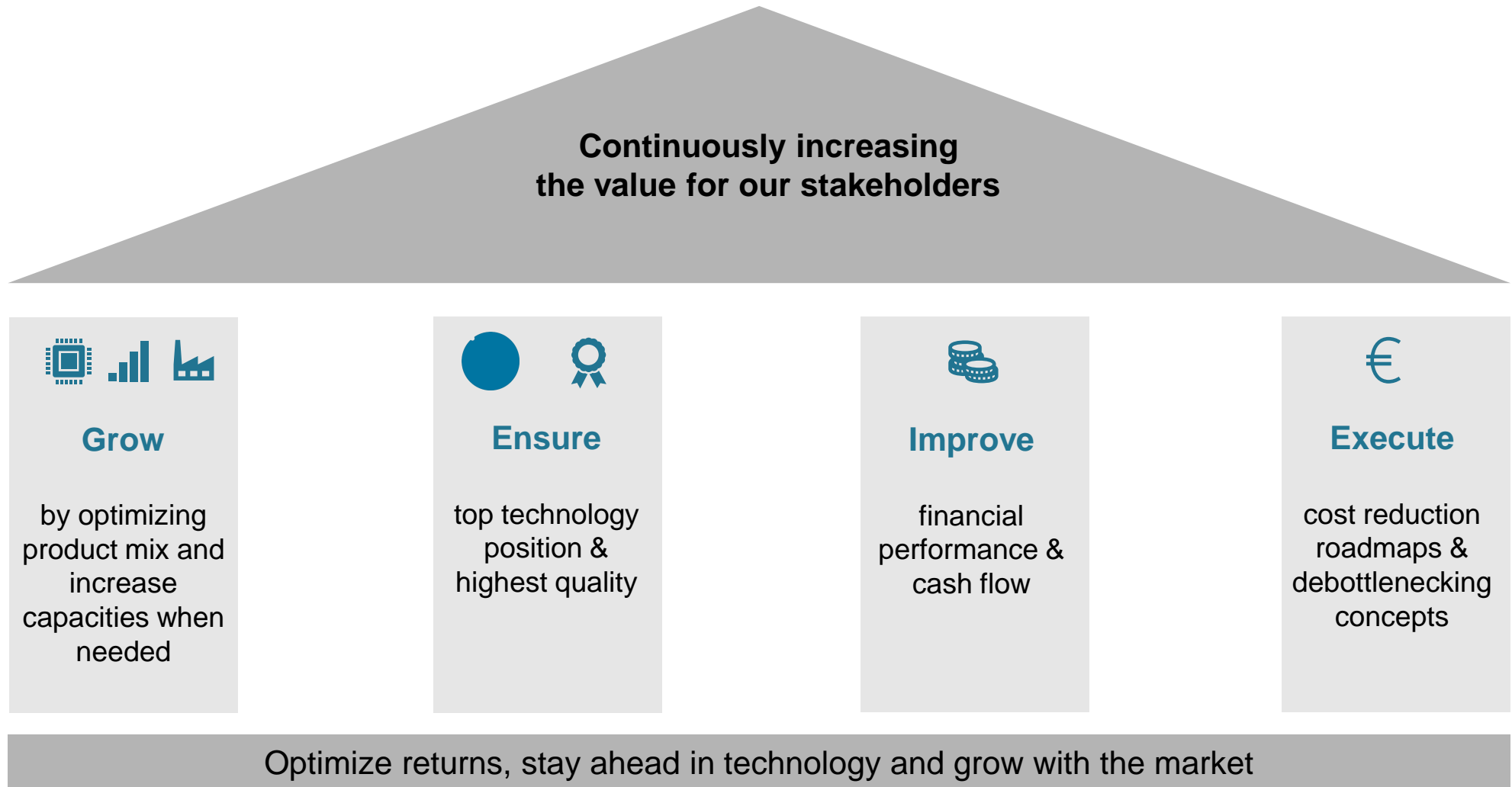
Source: Siltronic



The background features a series of concentric, glowing blue and white arcs that create a sense of depth and movement. A solid teal circle is positioned on the left side, partially overlapping the arcs. The word "STRATEGY" is written in white, bold, uppercase letters within this teal circle.

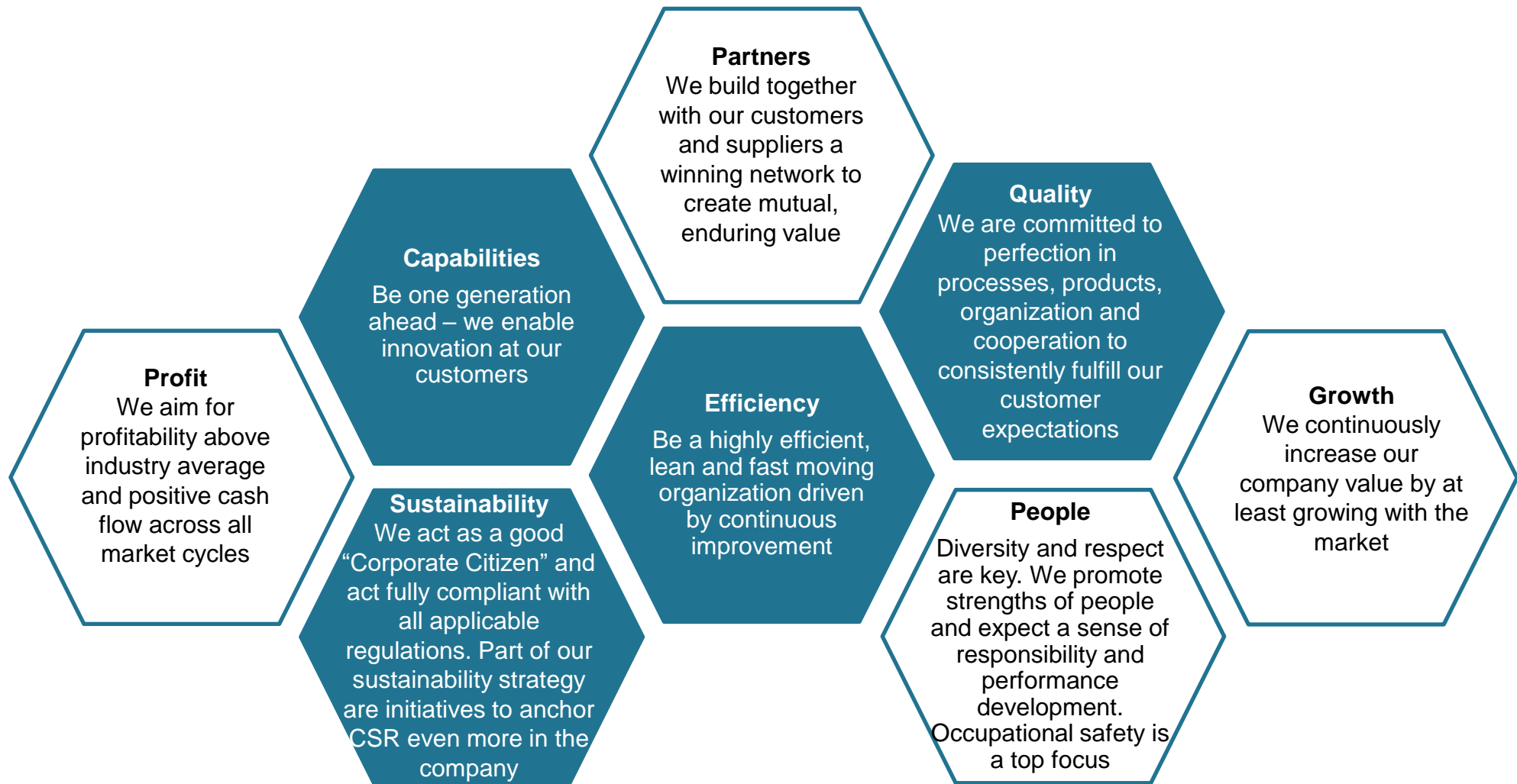
# STRATEGY

# Strategy based on four pillars





# Our objectives and values



# Cost-competitiveness a pre-requisite in the wafer industry

## Major cost items



Labor



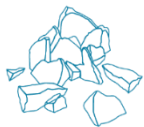
Depreciation



Supplies

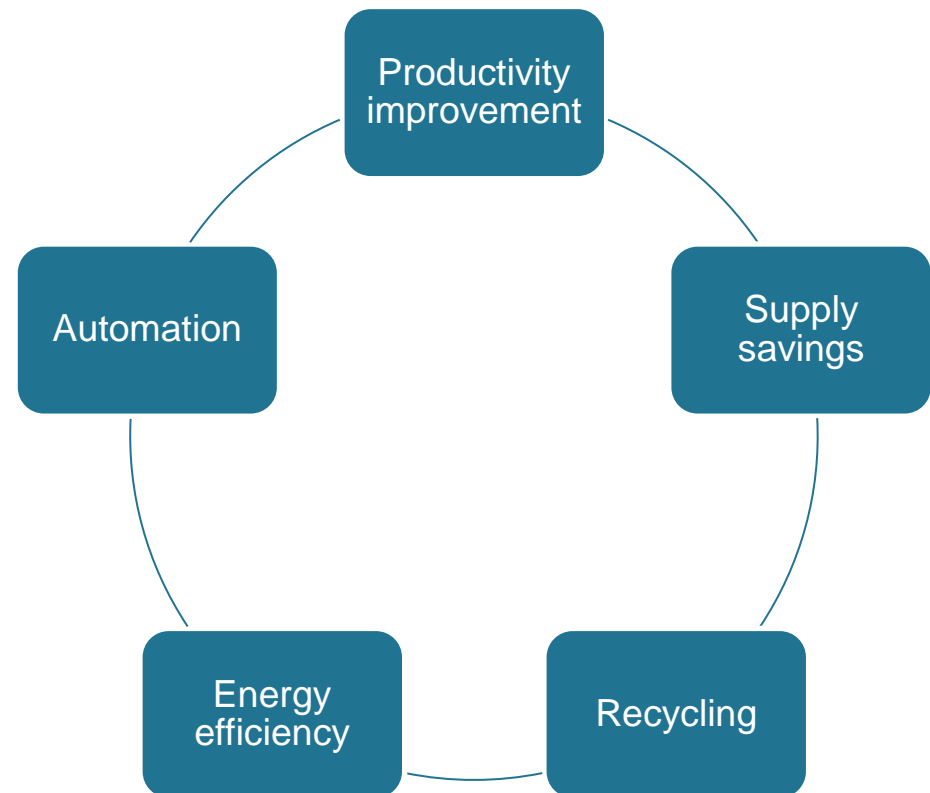


Energy



Polysilicon

## Continuous cost roadmaps to counter unit cost increases



The background features a series of vertical blue stripes of varying widths, creating a sense of depth and movement. On the left side, there is a large, dark grey circle. A thin white line starts from the left edge of the circle, curves upwards and then downwards, ending near the bottom right of the circle.

**SUSTAINABILITY**

# Sustainability: Corporate Responsibility and Competitive Advantage

## Strategy

we plan sustainability  
right from the start

## Top level

priority and  
responsibility

## All Stake-holders

included

## Fast

response to changing  
requirements

## Key Performance Indicators

### Climate

2030 -42% CO<sub>2</sub> emissions<sup>(1)</sup>  
60% renewable energy  
2045 Net zero<sup>(1)</sup>  
100% renewable energy

### Resources

#### Energy

2030 -20% energy intensity<sup>(2,3)</sup>

#### Water

2030 -20% water intensity<sup>(2)</sup>

#### Waste

2030 +25% recycling rate<sup>(2)</sup>

### Safety

LTIF<sup>(4)</sup> ≤ 2.0 | zero chemical accidents

## Voluntary Commitments



THE CLIMATE GROUP



Responsible Business Alliance  
Formerly the Electronic Industry Citizenship Coalition  
Advancing Sustainability Globally

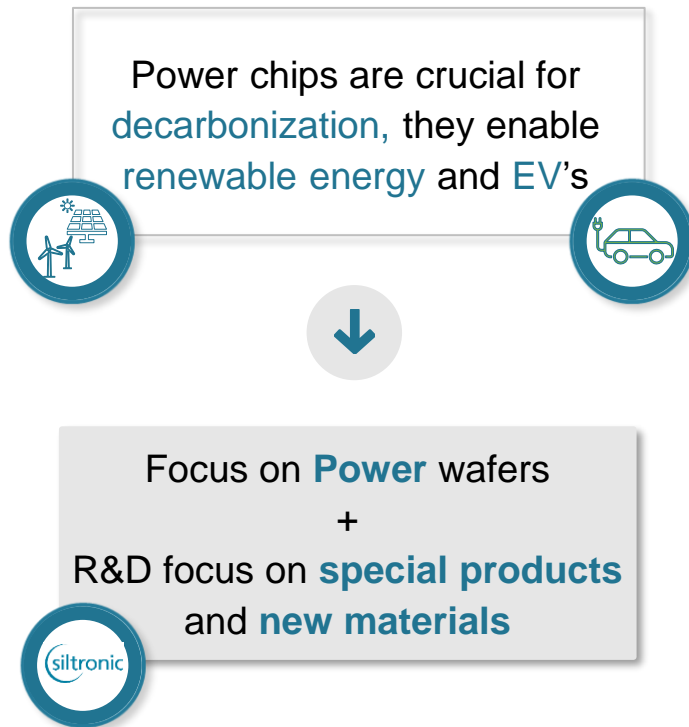
## Monitoring of ESG performance



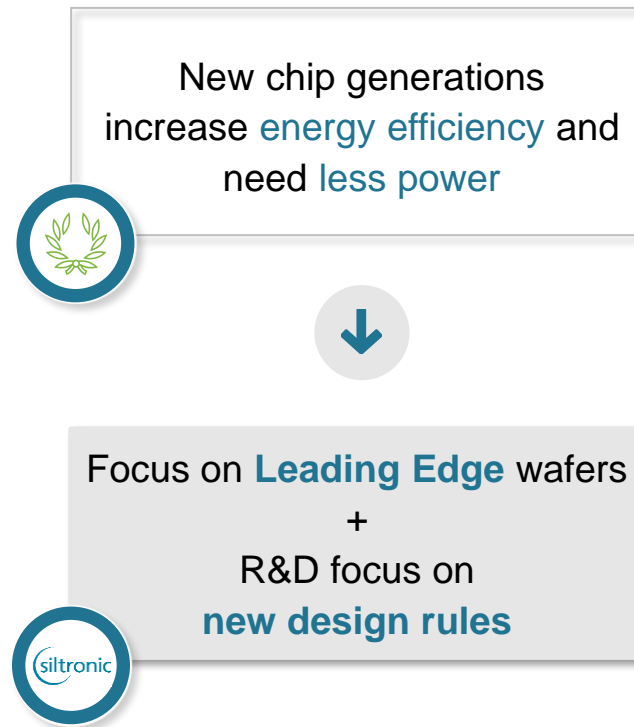
(1) Scope 1 and 2 | base year 2021 (2) 2030 vs. base year 2015 (3) Consumption per wafer area (4) Lost Time Injury Frequency per one million working hours

# Siltronic enables Technologies for a Sustainable Future

## Power focus



## Leading edge focus



### Strategy

on leading edge and power wafers support sustainability strategy



### Investments

needed to keep our equipment state of the art for leading edge wafers



### R&D focus

is crucial for sustainability strategy





Employees

# HR Strategy

## Global HR strategy supported by decentralized organization



**Attractive remuneration**  
Salary package including  
vacation pay Christmas bonus  
and additional variable  
compensation components



**Personnel development  
opportunities**  
Trainings/Curriculums,  
E-learning and individual  
actions for growth



**Diversity and equal  
opportunity**  
Diverse workforce with a  
wide range of skills and  
talents



### Global HR Strategy



**Occupational safety, plant safety, health**  
Extensive preventive measures and high  
safety standards;  
Health prevention programs



**Contemporary  
working models**  
Flexible working hours  
and home office



**Various social benefits**  
e.g. healthcare offers and  
pension plan

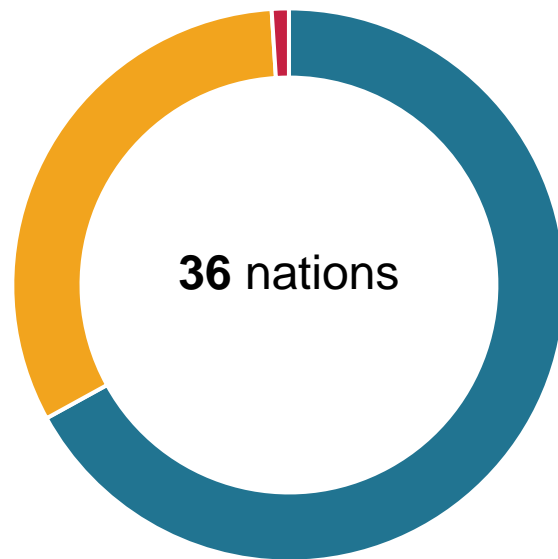


**Work-Life balance**  
Various options: e.g. additional  
vacation days for parents to combine  
work and personal life planning





# Diversity at Siltronic

## Overview on international staff at German sites




■ Burghausen ■ Freiberg ■ Munich

## Percentage of women to be increased further

		
Total staff	23%	77%
1st management level below Executive Board <sup>1</sup>	20%	80%
2nd management level below Executive Board <sup>1</sup>	15%	85%

## Target until 2023

	
1st management level below Executive Board <sup>1</sup>	at least 21.4%
2nd management level below Executive Board <sup>1</sup>	at least 11.4%

## Faces of diversity



**~6%** employment rate of people with disabilities<sup>1</sup>

significantly exceeds the statutory employment rate of 5% in Germany



Workforce by age group shows the challenges due to demographic changes

Up to 30 years	19%
31 – 50 years	49%
over 50 years	32%

Figures relate to 2022, <sup>1</sup>relates to Germany

# Occupational health and safety is a key focus



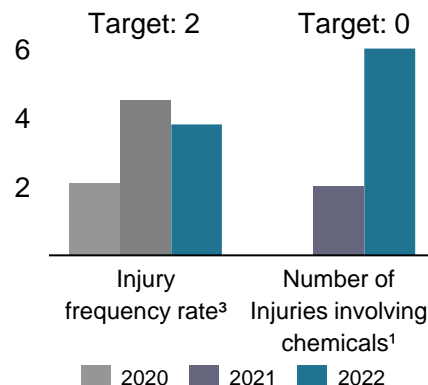
## Responsibility towards the entire workforce plays a major role within the Siltronic organization

### Occupational safety

- Continuously improving safety standards
- Key measures:  
Safety officers, safety inspection tours, training courses, emergency drills

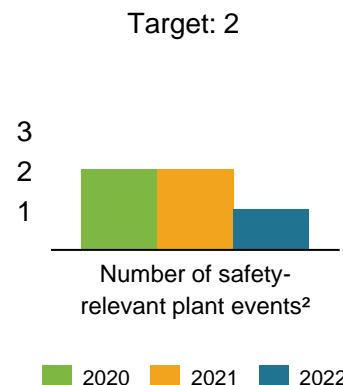
### Working accidents

- Regularly reported with special focus on injuries involving chemicals
- There were no fatal occupational accidents in Siltronic's area of responsibility
- Global system to report near-miss incidents



### Plant safety

- No event in 2022 was classified as an incident or as a reportable event according to the hazardous incident ordinance.
- Systematic safety analyses to determine risks



### Health protection

- Company programs for health prevention of our employees
- Various healthcare offers for employees

<sup>1</sup> with lost time involving chemicals,  
<sup>2</sup> PSI-Process Safety Incident according to CEFIC and ICCA definition,  
<sup>3</sup> Number of injuries (employees and temporary workers) with lost time per 1 million working hours

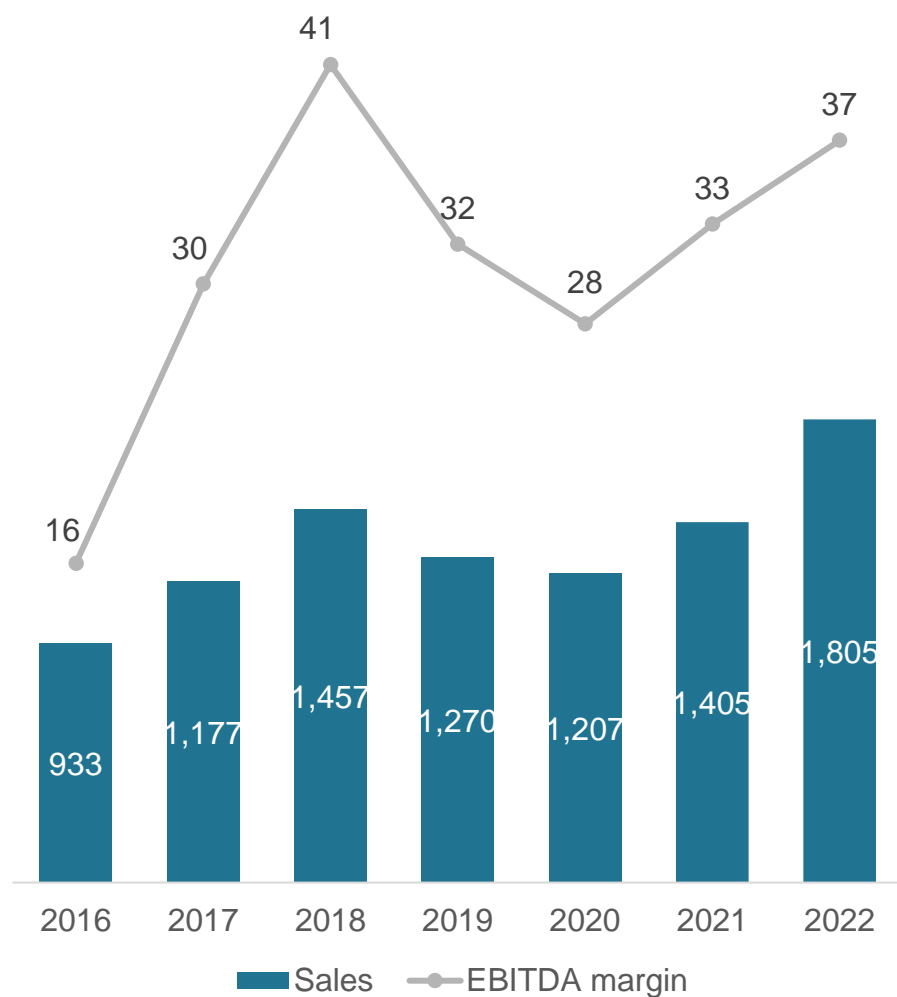




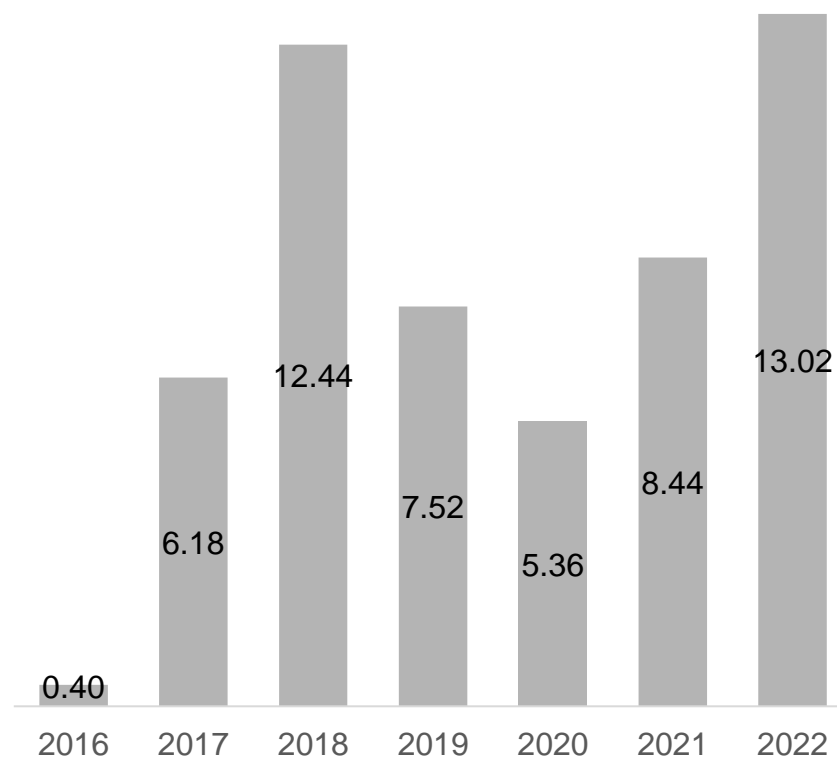
## **FINANCIALS & INVESTMENT RATIONALE**

# Attractive margins and earnings per share

**Sales, in EUR mn / EBITDA margin, in %**

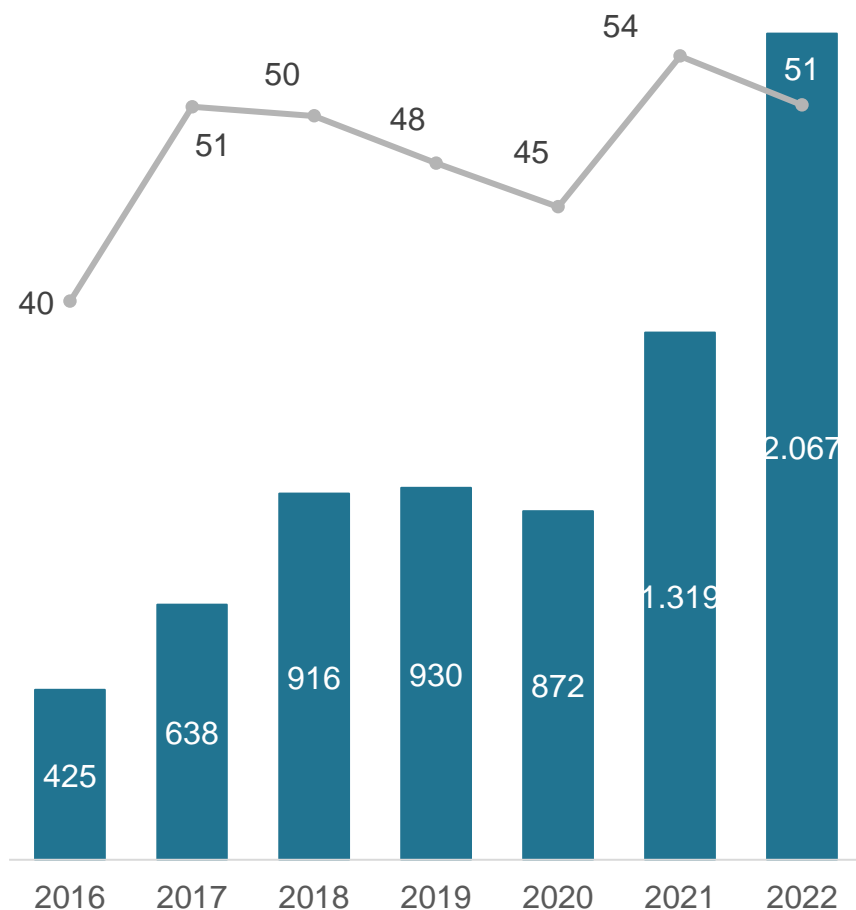


**Earnings per share, in EUR mn**

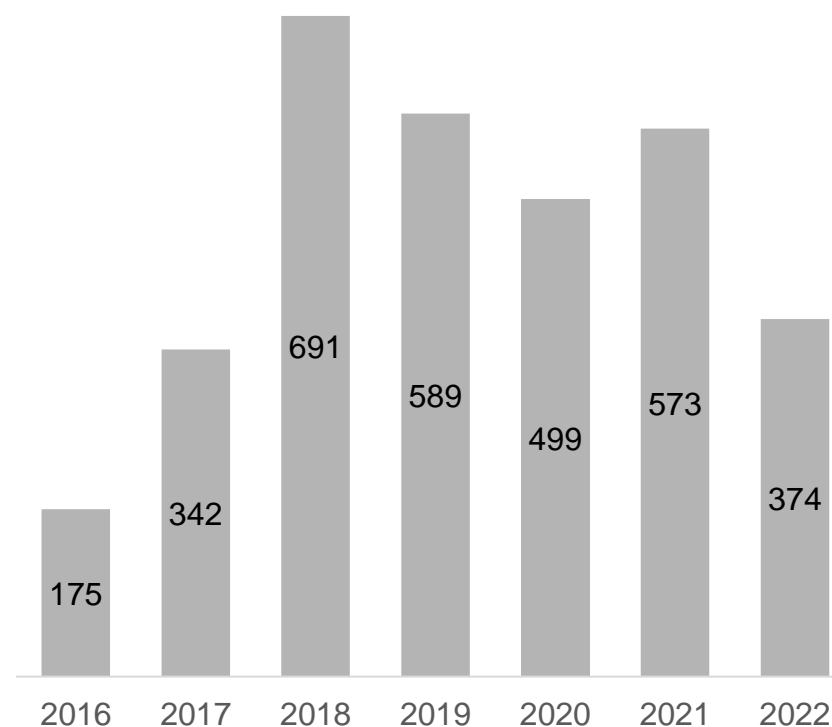


# Strong equity ratio and solid net financial assets

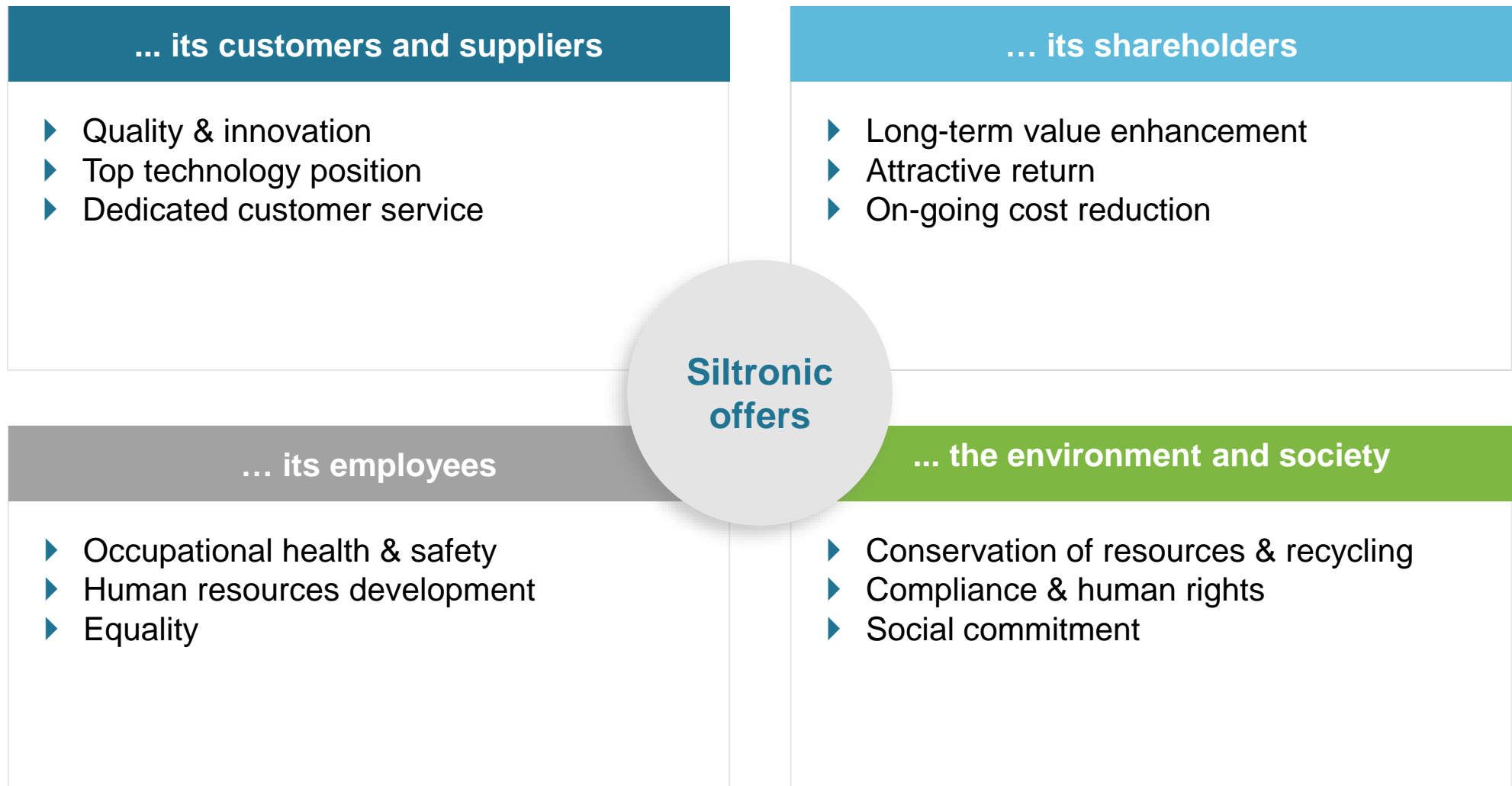
**Equity, in EUR mn**  
**Equity ratio, in %**



**Net financial assets, in EUR mn**



# Creating value for all stakeholders





The background of the slide features a close-up, low-angle shot of a large, curved, metallic structure, likely a component of a semiconductor manufacturing machine. The structure is composed of many thin, parallel, curved lines that create a strong sense of depth and curvature. The lighting is soft and diffused, highlighting the metallic texture and the precision of the engineering. A large, dark gray circular graphic element is positioned on the left side of the slide, partially overlapping the background image. A thin white line curves across the slide, separating the dark gray area from the rest of the background.

**SILTRONIC SHARE**

# Siltronic shares at a glance

## Consensus

Our full consensus is available here:

[\*Information on the share – Siltronic / perfect silicon solutions\*](#)

## Share information

**Symbol:** WAF300

**ISIN:** DE000WAF3001

**Trading platform:** Prime Standard - Xetra, Frankfurt

**Indices:** MDAX, TecDAX

**No. of shares:** 30.000.000

(registered shares; one share = one vote)

## Share price development since IPO

Year end closing share price, in EUR; Market cap in EUR billion



## Coverage

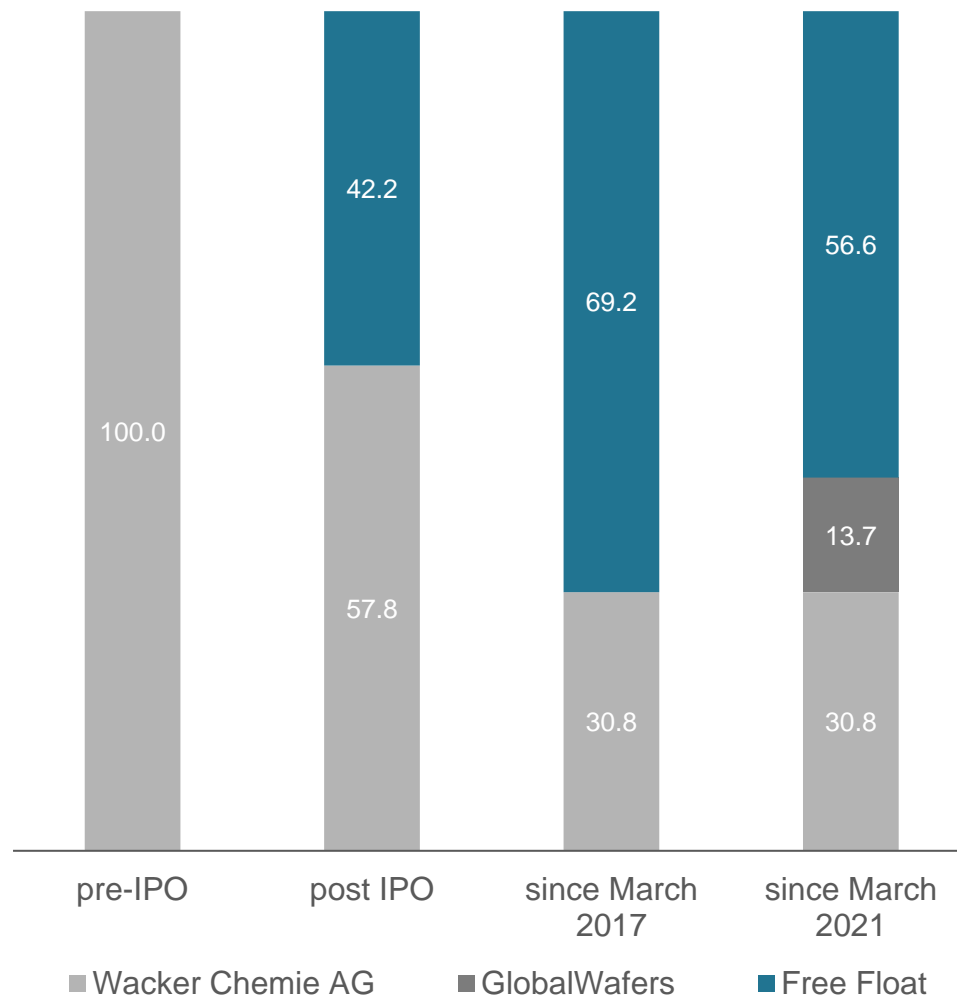
Broker	Analyst
Alpha Value	Martin Schnee
Bank of America	Marie Ganneval
Berenberg	Gustav Froberg
Citigroup	Daniel Schafei
Deutsche Bank	Rob Sanders
Exane BNP Paribas	Martin Jungfleisch
Hauck Aufhäuser	Tim Wunderlich
Jefferies	Constantin Hesse
Kepler	Florian Treisch
Oddo BHF	Maissa Keskes
Stifel	Jürgen Wagner
UBS	Francois-Xavier Bouvignies

## Dividend payment per share, in EUR



**General dividend policy:**  
payout ratio = around 40% of net income attributable to Siltronic shareholders but capped at a maximum of EUR 3.00 per share

# Shareholder structure



## Significant notifications of voting rights (>3%) (as of December 31, 2022)

Wacker Chemie (Munich)	30.83%
Sino American Silicon Products (Tapei)	13.67%
DWS Investment GmbH	5.27%



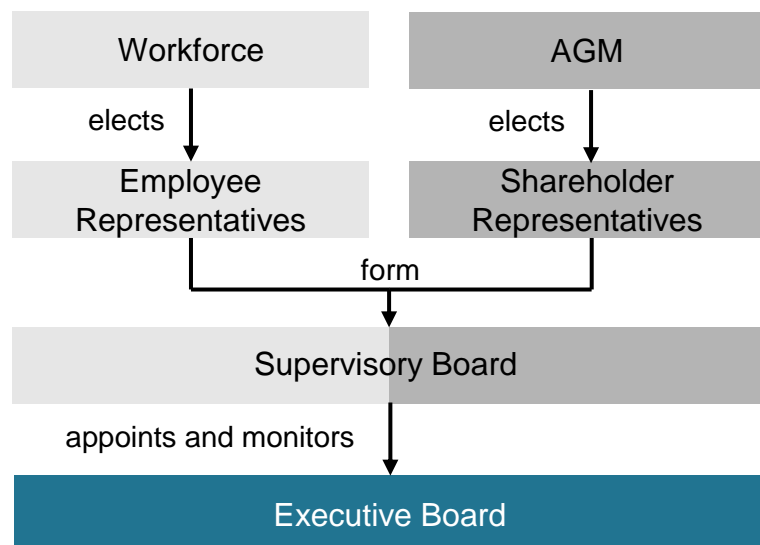


## CORPORATE GOVERNANCE



# Dual management system with a balanced Supervisory Board

## Two-tier system



## Dual Board

In accordance with German Corporate Law (co-determination) and Corporate Governance Code 2020 both bodies cooperate closely and in a spirit of trust in managing and overseeing the company.

## Supervisory Board composition

Shareholder representatives: 4 male & 2 female members

Employee Representatives: 4 male & 2 female members

**Independence:** At least 4 shareholder representatives within the meaning of the German Corporate Governance Code.

**Preparation of Supervisory Board Meetings:** Separate preparatory meetings of the shareholder and employee representatives

## Supervisory Board committees

### Audit Committee

prepares Supervisory Board decisions on financial reporting and deals with issues concerning risk management & compliance

### Executive Committee

deals with personnel matters of the Executive Board and its compensation

### Nomination Committee

responsible for proposing suitable candidates to be elected as shareholder representatives on the Supervisory Board

### Conciliation Committee

formed pursuant to German Co-determination Act

# Skilled Supervisory Board with majority of shareholder representatives being independent

## Shareholder representatives

### Dr. Tobias Ohler

Member of the Executive Board of  
Wacker Chemie AG

*Since 2013 (Chair since 2015)  
until 2027*

*Conciliation Committee, Audit Committee,  
Executive Committee, Nomination Committee  
(Chair)*

### Sieglinde Feist

Head of Sales & Distribution  
Wacker Chemie AG

*Since 2014  
until 2027*

*Conciliation Committee*

### Michael Hankel

former member of the Executive Board  
of ZF Friedrichshafen AG

*Since 2018  
until 2027*

*Executive Committee (Chair),  
Nomination Committee*

### Mariella Röhm-Kottmann

Senior Vice President, Head of  
Corporate Accounting of ZF  
Friedrichshafen AG

*Since 2023  
until 2027*

*Audit Committee (Chair),  
Executive Committee*

### Dr. Hermann Gerlinger

Managing Director of GeC GmbH

*Since 2011  
until 2025*

### Prof. Dr. Jos P.H. Benschop

Corporate Vice President  
Technology of ASML Netherlands  
BV, Netherlands

*Since 2013  
until 2027*

## Employee representatives

### Daniela Berer

Deputy Chairman of the (Joint)  
Works Council of Siltronic AG

*Since 2023  
(Co-Chair since 2023)  
until 2027*

*Conciliation Committee, Executive Committee*

### Mandy Breyer

Deputy Chairman of General Works  
Council of Siltronic AG, Freiberg

*Since 2018  
until 2027*

*Conciliation Committee*

### Lina Ohlmann

Specialized Secretary of the  
Industrial Union (IG-BCE), Union  
Pay Policies Department

*Since 2021  
until 2027*

### Volker Stapfer

Deputy Chairman of General Works  
Council of Siltronic AG

*Since 2022  
until 2027*

*Audit Committee*

### Klaus-Peter Estermaier

Head of Supply Chain Management  
Siltronic AG

*Since 2018  
until 2027*

### Markus Hautmann

District Manager of the Industrial  
Union (IG-BCE) Altötting

*Since 2021  
until 2027*

# Executive Board

## Claudia Schmitt CFO

Born:  
October 31, 1971, Mannheim  
Germany

### Professional Career

Since July 2023:  
Chief Financial Officer  
Siltronic AG Executive Board  
Appointed until June 30, 2026

2017: Head of Corporate Controlling & Finance, Siltronic AG, Munich  
2009: Head of Corporate Controlling, Siltronic AG  
2004: Team lead Corporate Controlling, Wacker Chemie AG  
1998: Corporate Controlling, Wacker Chemie AG



## Dr. Michael Heckmeier CEO

Born:  
November 26, 1967, Titisee-Neustadt  
Germany

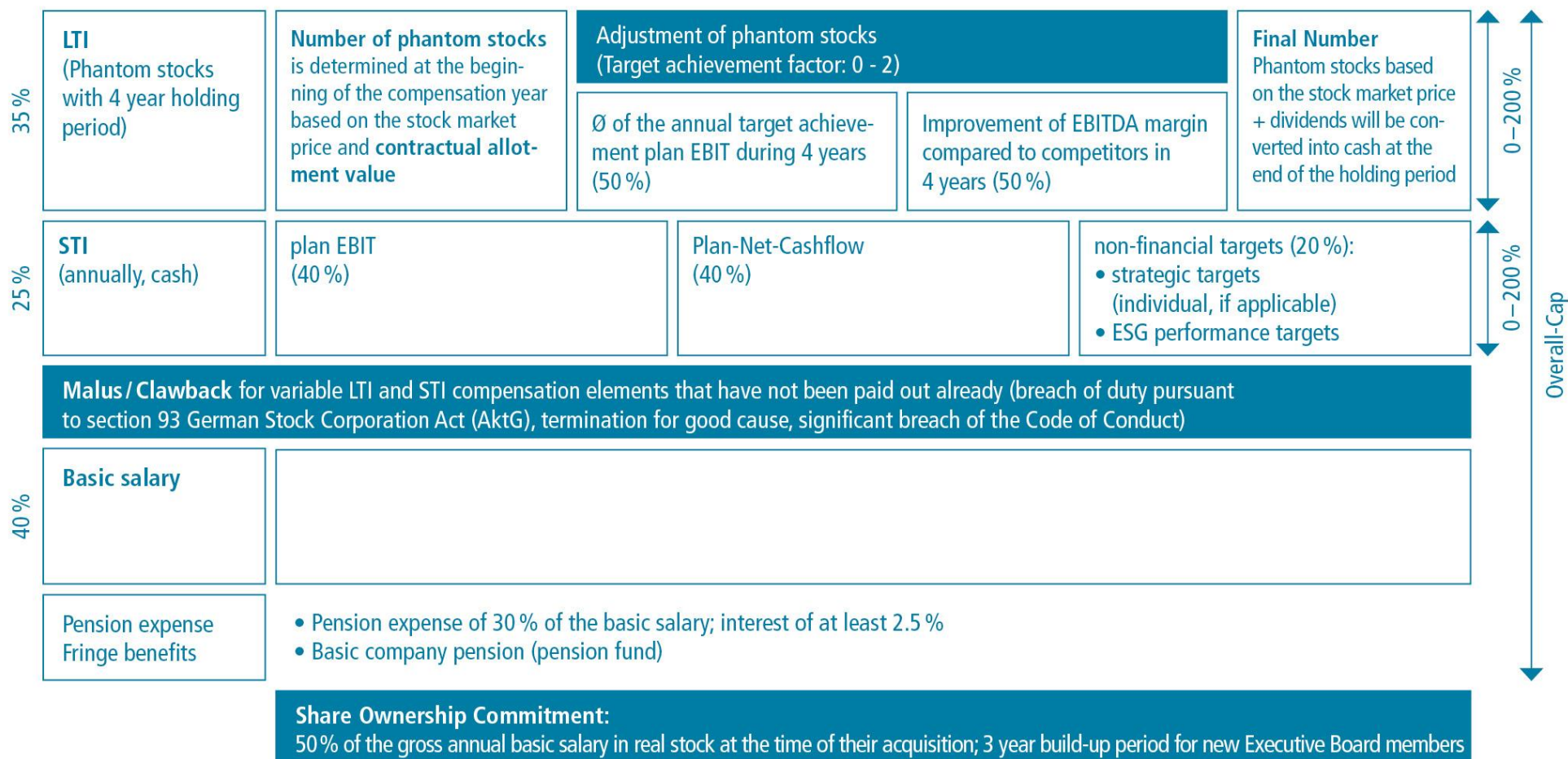
### Professional Career

Since May 2023:  
Siltronic AG Executive Board Chair  
Appointed until May 5, 2026

2018: Executive Vice President, Global Head of Business Unit Display Solutions, Merck KGaA, Darmstadt  
2017: Executive Vice President, Global Head of Business Unit Display Materials, Merck KGaA  
2015: Senior Vice President, Global Head of Business Unit Pigments and Functional Materials, Merck KGaA  
2010: Senior Vice President of Liquid Crystal Research and Development, Merck KGaA  
2006: Senior Director Chilworth Technical Centre, Merck Chemicals Ltd., Southampton, United Kingdom  
2005: Director Polymers at Merck OLED Materials GmbH  
2004: Director New Venture Materials, Merck KGaA  
2003: International Project Manager, Merck KGaA  
1998: Lab Manager, Merck KGaA

# Siltronic incentivises the Executive Board appropriately and with long-term and ESG orientation

## Model compensation system





# Contact and Additional Information

## Issuer and Contact

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Einsteinstraße 172  
D-81677 München

### Investor Relations:

Verena Stütze  
E-mail: [investor.relations@siltronic.com](mailto:investor.relations@siltronic.com)  
Tel: +49 89 8564-3133

## Financial Calendar 2024

March 12	FY 2023 results
May 2	Q1 2024 results
July 25	Q2 2024 interim results
October 24	Q3 2024 results

## Additional Information

ISIN:	DE000WAF3001
WKN:	WAF300
Deutsche Börse:	WAF
Listing:	Frankfurt Stock Exchange Prime Standard



# Disclaimer

The information contained in this presentation is for background purposes only and is subject to amendment, revision and updating. Certain statements contained in this presentation may be statements of future expectations, future financial performance and other forward-looking statements that are based on management's current views and assumptions and involve known and unknown risks and uncertainties. In addition to statements which are forward-looking by reason of context, including without limitation, statements referring to risk limitations, operational profitability, financial strength, performance targets, profitable growth opportunities and risk adequate pricing, words such as "may", "will", "should", "expects", "plans", "intends", "anticipates", "believes", "estimates", "predicts", "continue", "projects" or "seeks", "potential", "future", or "further" and similar expressions may identify forward-looking statements. By their nature, forward-looking statements involve a number of risks, uncertainties and assumptions which could cause actual results or events to differ materially from those expressed or implied by the forward-looking statements. These include, among other factors, changing business or other market conditions, currency and interest fluctuations, introduction of competitive products, poor acceptance of new products and services, change of the corporate strategy and the prospects for growth anticipated by the management. These and other factors could adversely affect the outcome and financial effects of the plans and events described herein. Statements contained in this presentation regarding past trends or activities should not be taken as a representation that such trends or activities will continue in the future. Siltronic AG does not undertake and does not intent to undertake any obligation to update or revise any statements contained in this presentation, whether as a result of new information, future events or otherwise. In particular, you should not place any reliance on forward-looking statements which speak only as of the date of this presentation.

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