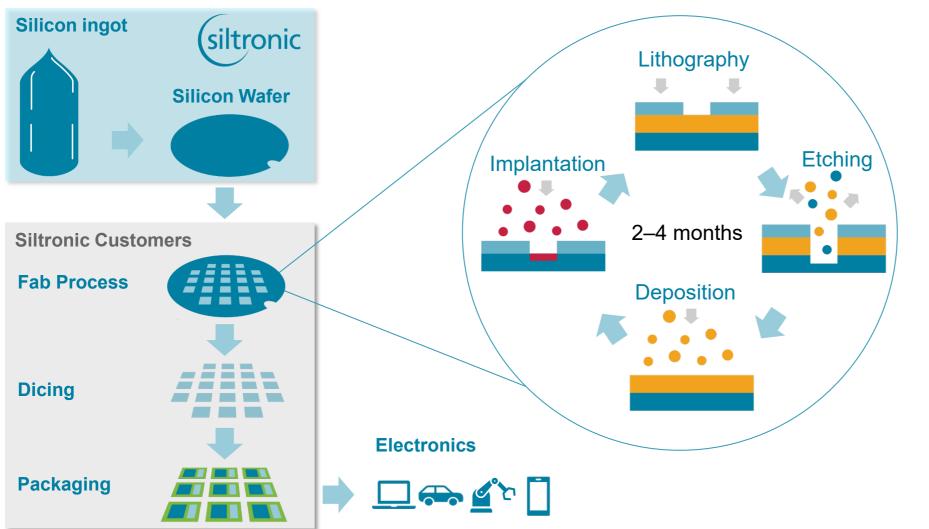


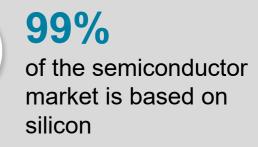
VALUE GENERATION THROUGH INNOVATION AND TECHNOLOGY

Dr. Christian Parthey VP Application Technology November 30, 2023

SILICON WAFERS FUEL ELECTRONICS WITH SILTRONIC AS A KEY PLAYER



6 months+ from the ingot to the end product

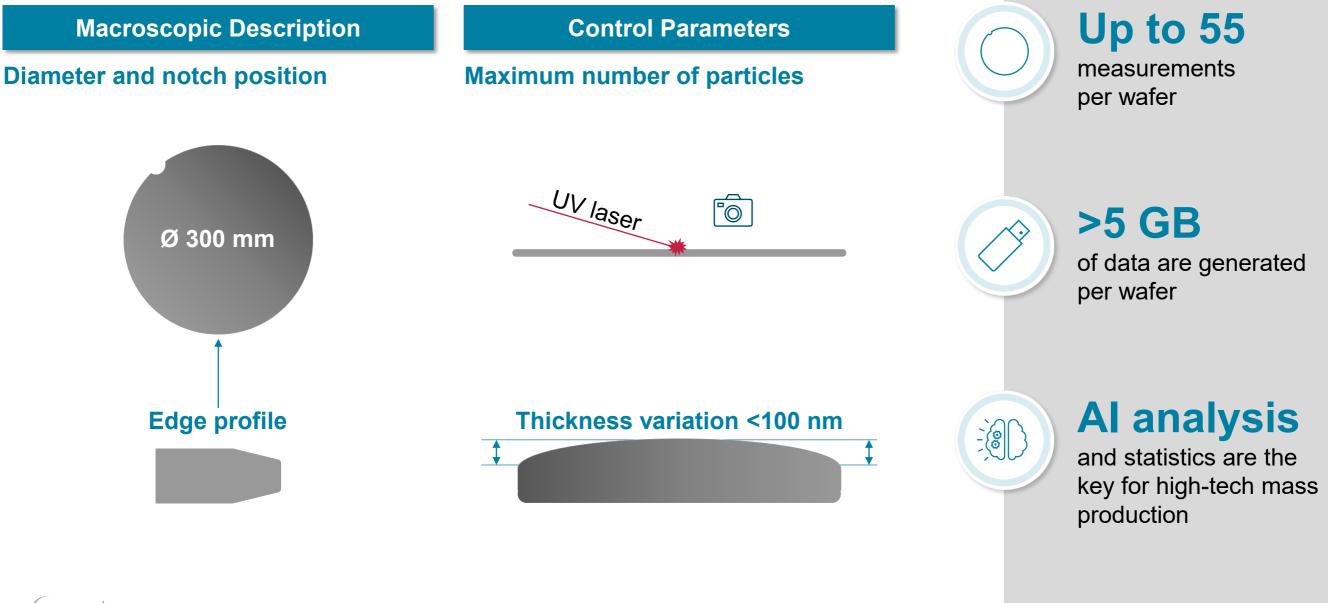




>90 million

300 mm wafers processed in 2022

OUR WAFERS ARE A HIGH-TECH PRODUCT WHERE A SINGLE NANOMETER MAKES THE DIFFERENCE



SILTRONIC'S PRODUCT PORTFOLIO COVERS ALL SEMICONDUCTOR SEGMENTS

	Logic devices	Memory devices	Power devices
CRYSTAL	Leading Edge Trailing Edge	💱 Leading Edge	Ω Low resistivity O_2 Low oxygen
POLISHED WAFER	Leading Edge Trailing Edge	💱 Leading Edge	Trailing Edge
EPI LAYER	Leading Edge Trailing Edge		Trailing Edge

4 (siltronic Capital Markets Day – Nov. 30, 2023 I Deep Dive Technology & Innovation

WE CONTROL AND TAILOR DIFFERENT CRYSTAL PROPERTIES FOR SPECIFIC CUSTOMER NEEDS

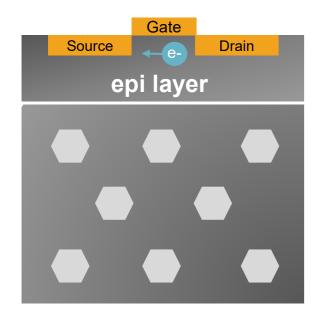
Wafers for

5

Logic devices

In a Logic wafer, electrons only travel in the epi layer close to the surface

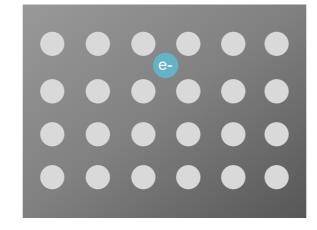
Requirement: high quality epi layer & engineered substrate wafer



Memory devices

In a Memory wafer electrons are stored in cells

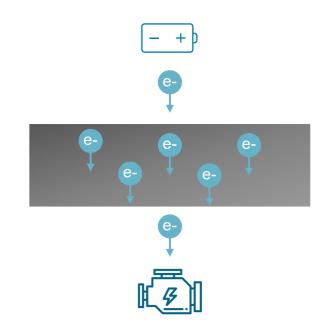
Requirement: high quality crystal and well controlled flatness all the way to the wafer edge



Power devices

In a wafer for high Power use, the current flows through the bulk

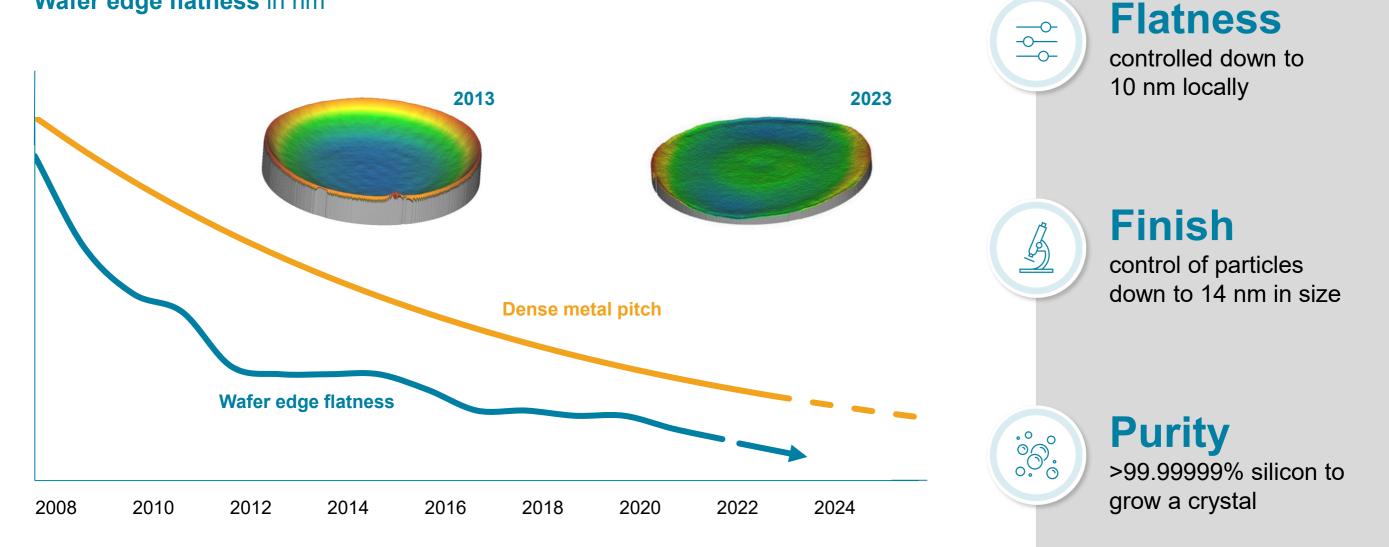
Requirement: low resistivity



MOORE'S LAW IS DRIVING THE INDUSTRY AND INNOVATION CYCLES Semiconductor technology nodes' life-cycle (schematic) **Moore's Law** is the semiconductor Market industry's pace maker relevance Node 1 Node 2 Node 3 **Two years** cadence to introduce new technology nodes Time **Functionality** പ്പ gains at price parity Moore's Law: drive continued The number of transistors on a microchip doubles every two years. demand

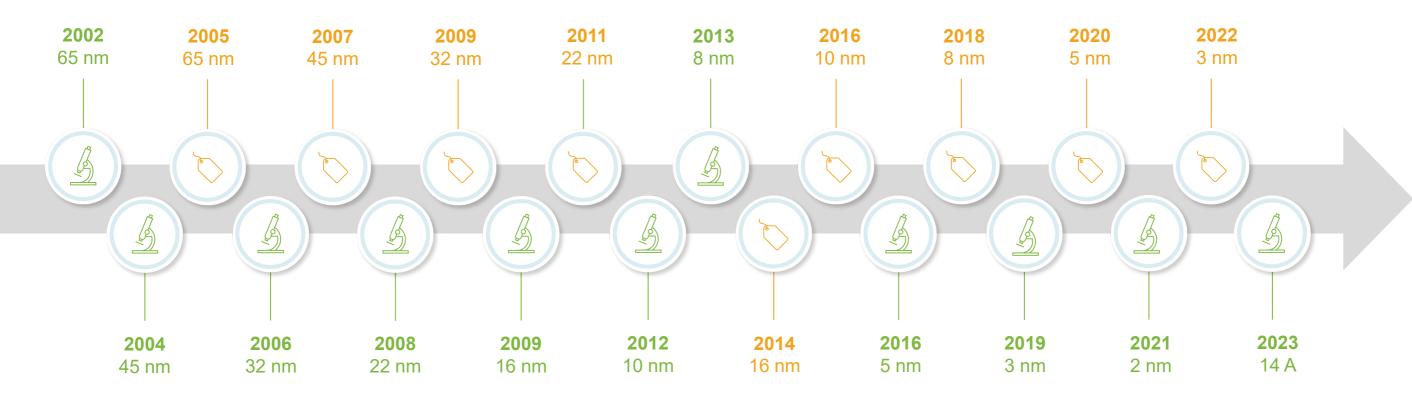
SEMICONDUCTOR DEVICES IMPROVE AND SILICON WAFERS HAVE TO STAY AHEAD

Wafer edge flatness in nm



Source: Siltronic estimate based on ASML and IRDS 2022

SILTRONIC HAS STAYED AHEAD OF THE CURVE AS A LEADING EDGE **PLAYER FOR DECADES**



R&D Start

Commercialization

(siltronic | Capital Markets Day – Nov. 30, 2023 | Deep Dive Technology & Innovation 8

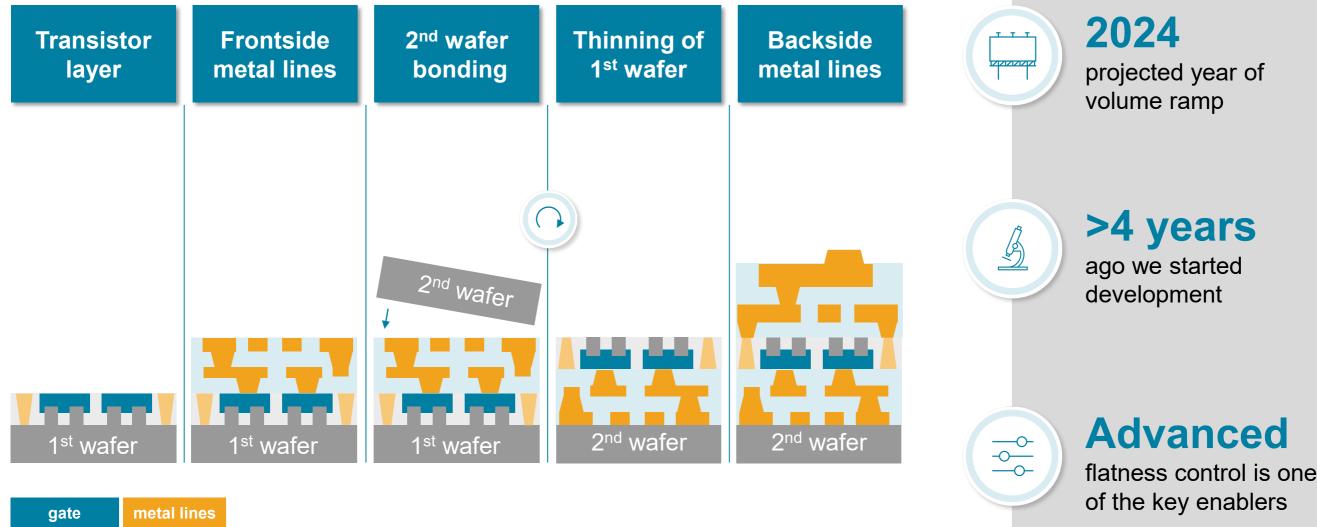
FAST DEVELOPMENT ALLOWS TO CAPTURE THE FULL SALES POTENTIAL OF A NODE Impact of Leading Edge strategy on generated sales (schematic) **Price** Sales premium for Leading potential Capability Edge one **Profitability** generation closed for closed for metrology 00 readiness ahead qualifications qualifications higher for Leading Edge Time 5-6% B

Start early Innovate fast

Excellent customer relationship \rightarrow High R&D resources

of sales invested in R&D

A14 LOGIC NODE REQUIRES BACKSIDE POWER DELIVERY WITH A NEW WAFER PRODUCT



Source: Siltronic based on SemiWiki and Luc Van den Hove, IMEC, Future Summits 2022

KEY TAKEAWAYS



QUESTIONS?

• **F** 🛗 X in



DR. CHRISTIAN PARTHEY VP Application Technology

Siltronic Munich Siltronic AG Einsteinstraße 172 D-81677 Munich

www.siltronic.com

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, 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.