



Company presentation

Infineon Technologies AG
August 2022



Infineon is a world leader in semiconductor solutions



~50,280
employees¹

leading player

in automotive, power management, energy efficient technologies and the IoT

market position

Automotive	Power	Microcontroller
# 1	# 1	# 4
Strategy Analytics, March 2022	Omdia, September 2021	Omdia, March 2022

¹ as of 30 September 2021

Infineon at a glance

Long-term high-growth trends

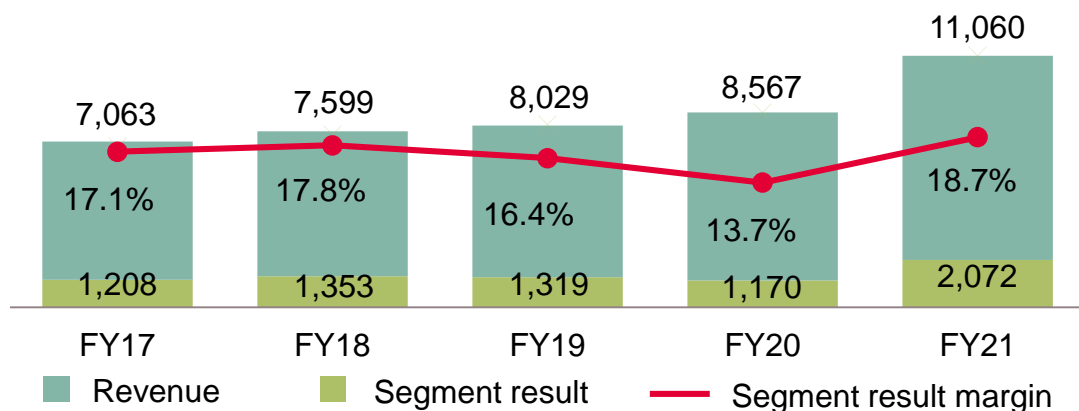
Decarbonization

- › CO₂ saving
- › Energy efficiency
- › Sustainability

Digitalization

- › Productivity
- › Comfort
- › New use cases

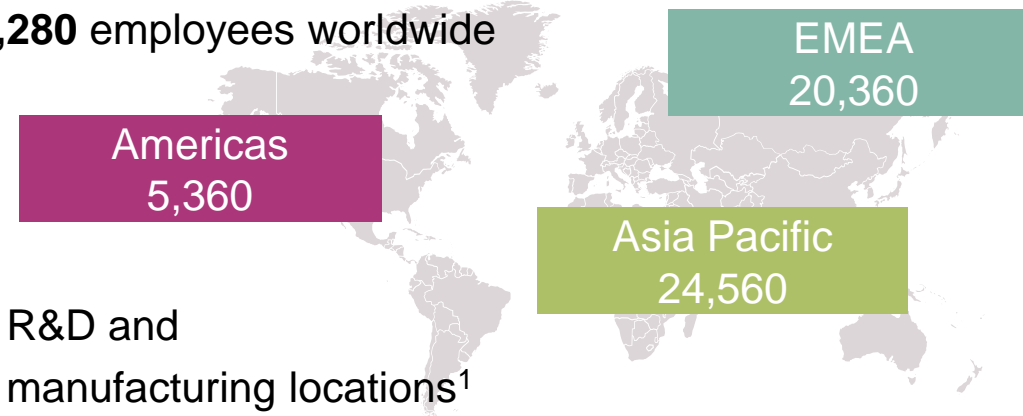
Financials



¹ as of 30 September 2021 ² 2021 Fiscal year (as of 30 September 2021)

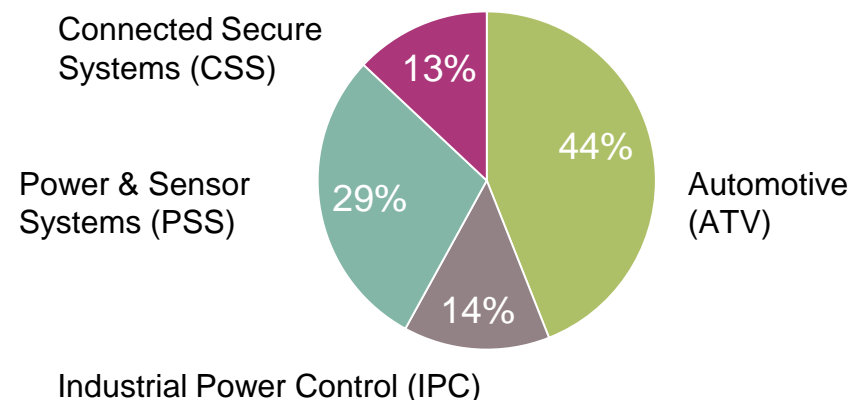
Employees¹

50,280 employees worldwide



56 R&D and
20 manufacturing locations¹

Business segments revenue²



For further information [Infineon Annual Report 2021](#)

A world leader in semiconductor solutions



Our vision

We are the link between the real and the digital world.

Our values

We commit
We partner
We innovate
We perform

Our mission

We make life
easier, safer,
and greener.

Part of your life. Part of tomorrow.

Global megatrends underline the increasing importance of microelectronics



Demographic and social change



Climate change and resource scarcity



Urbanization



Digital transformation

Business growth in the semiconductor market is driven by four areas

Energy efficiency



Mobility



Security



IoT and big data



Energy efficiency



Growth area: Energy efficiency

Rising demand for energy, growing depletion of fossil resources, and climate change challenge our world to find smarter, more efficient ways of generating, transmitting, storing, and using energy. The mandatory CO2 reduction and the desire to connect more and more devices and equip them with functions that make our lives and work easier are important trends in all industries. Decarbonization and digitalization will shape the decade.

The efficiency potential of technology and, in particular, semiconductors along the entire energy conversion chain can significantly contribute to achieving long-term, global savings goals. A strong commitment to energy efficiency has been part of Infineon's DNA for over 40 years. As the global leader in power semiconductors, our products and solutions allow energy to be generated more efficiently.

Growth drivers and major product categories

- > **Power generation from renewable energy sources:** High-power IGBT and SiC modules
- > **Energy transmission and distribution:** High-power IGBT modules
- > **Energy storage:** IGBT modules, SiC modules
- > **Energy usage:** Discrete power devices, IGBT modules, driver ICs, MCUs, SiC modules, SiC MOSFETs, SiC diodes, GaN transistors, sensors, security solutions, connectivity solutions

Mobility



Growth area: Mobility

Megatrends like demographic shifts, social change, urbanization, and technological progress are exerting a massive impact on the mobility and transportation landscape. Today, we are facing a new era of mobility. Decarbonization and digitalization of mobility are key to protect our environment and contribute to quality of life.

Semiconductors are at the heart of the transformation towards green, safe, and user-centric mobility services ranging from eBikes and eScooters through hybrid and fully electric vehicles to underground and high-speed trains.

Growth drivers and major product categories

- › **Electromobility:** Power semiconductors, SiC modules, MCUs, sensors
- › **Charging infrastructure for electromobility:** Power semiconductors, SiC modules, MCUs, security solutions
- › **Automated driving:** Sensors, radar, MCUs, power semiconductors, memories, connectivity and security solutions
- › **Passenger and freight transport:** High-power IGBT modules
- › **Infotainment:** Display instrument cluster MCUs, touch control, in-cabin Wi-Fi controller, USB Type-C PD controllers

Security



Growth area: Security

In an increasingly digital world with more and more connected devices, people want to interact and communicate in a secure way that protects their data against theft and misuse. Securing electronic devices and infrastructures is a number one priority.

Addressing this need for security is one of Infineon's key competencies. We provide our customers with robust, future-oriented embedded security solutions for electronic devices, computer systems, network components, and industrial facilities.

Growth drivers and major product categories

- › **Mobile devices:** Embedded security solutions, connectivity solutions
- › **Authentication for the IoT:** Embedded security solutions
- › **Smart cards:** Security solutions based on contactless and dual-interface security controllers
- › **Industrial applications:** Embedded security solutions, TPMs, connectivity solutions
- › **Connected vehicles:** eSIM, connectivity solutions, V2X
- › **Integrity of devices:** TPMs

IoT and big data



Growth area: IoT and big data

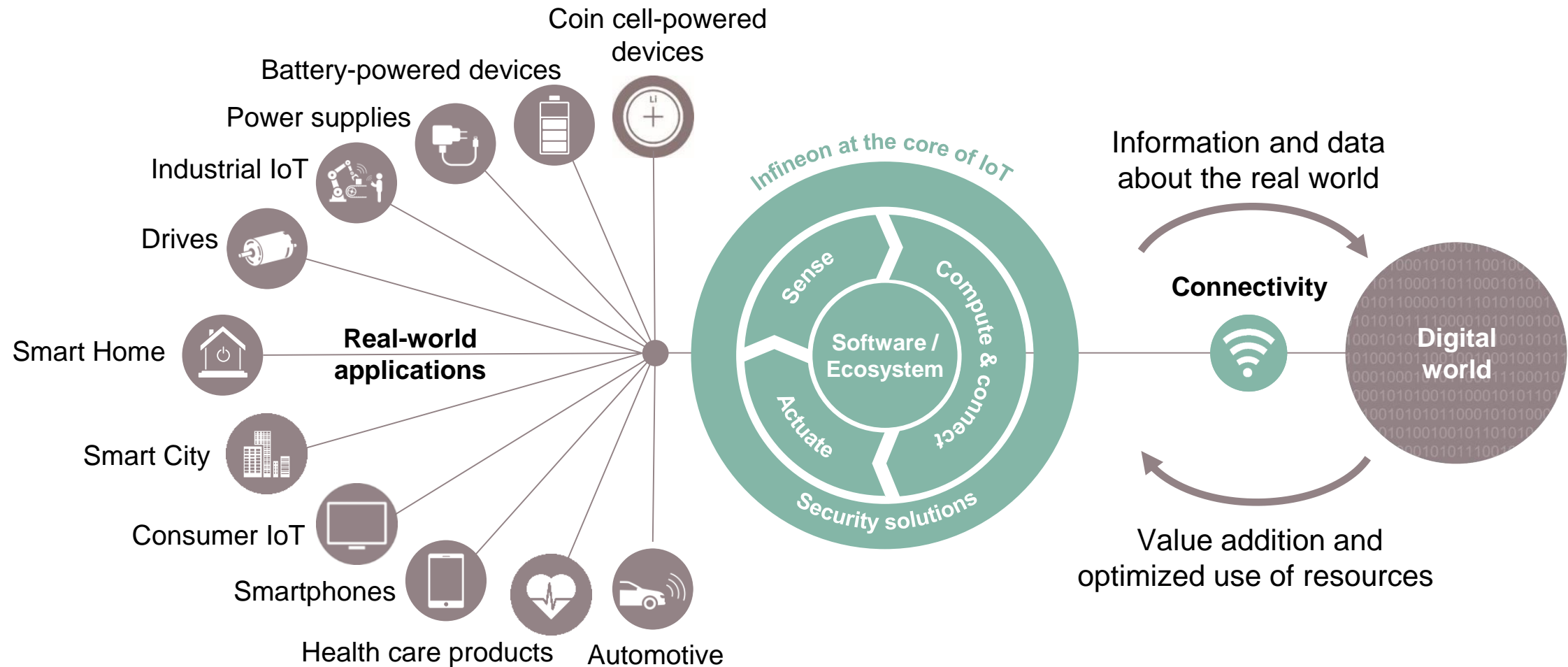
The IoT is reaching a breakthrough point as technologies and components work together more seamlessly. Smart and connected objects link the real with the digital world, helping us to tackle the major challenges of our time, such as climate change and the growing world population.

It is impossible to imagine the world of IoT and big data without microchips, which is why Infineon is the backbone of the IoT. Our capabilities in sensing, computing, actuating, connecting, and securing unlock new markets and applications. They make the IoT smart, easy, and energy-efficient. As a leader in semiconductor system solutions, we make the IoT what it needs to be: secure, easy, and real. We make the IoT work.

Growth drivers and major product categories

- › **Human-machine interaction:** Sensors, MCUs
- › **Consumer IoT:** Sensors, MCUs, connectivity solutions, power semiconductors, security solutions, software
- › **Industrial IoT:** Sensors, MCUs, special memories, connectivity solutions, power semiconductors, security solutions, software
- › **Data and communication infrastructure:** Special memories, power semiconductors, SiC diodes, GaN HEMTs
- › **Edge computing:** Sensors, MCUs, special memories, connectivity solutions, power semiconductors, security solutions, software

Infiniteon offers a unique portfolio that links the real and the digital world



Sense: sensors

Compute and connect: microcontrollers, memories, Wi-Fi, Bluetooth, BLE, USB

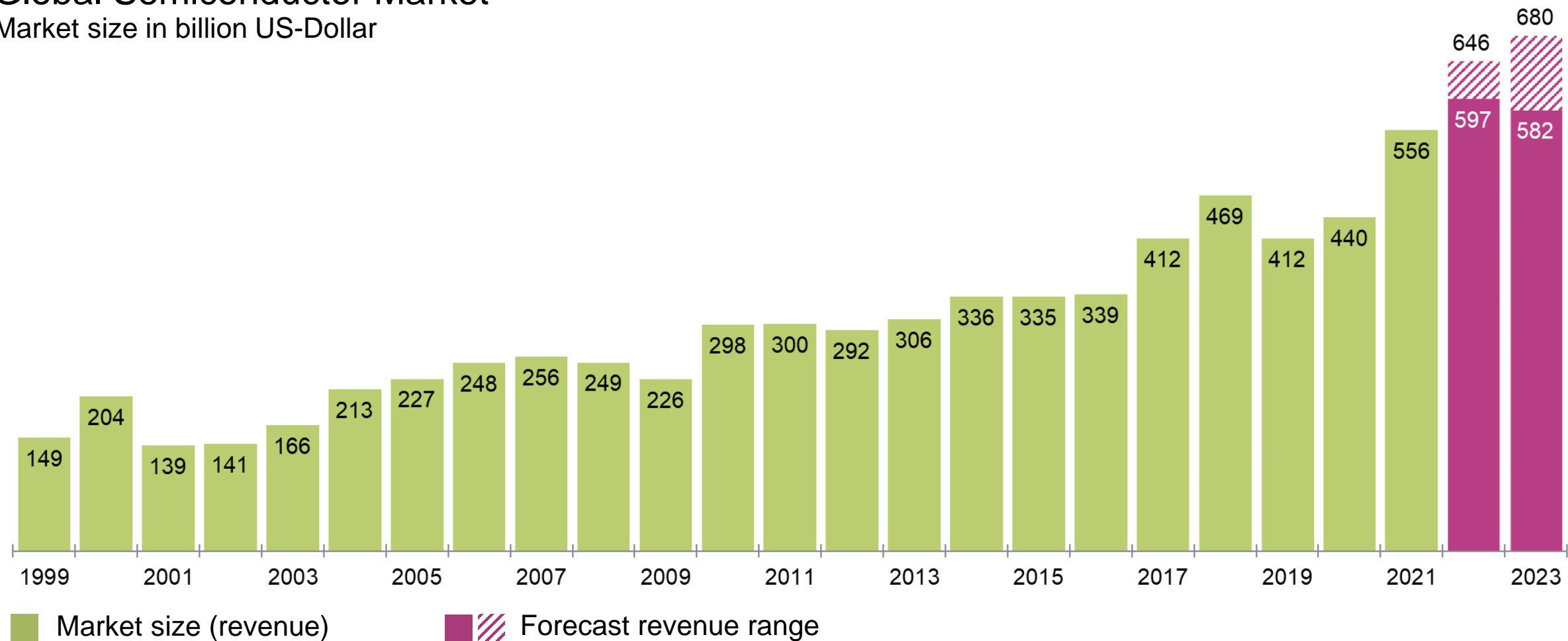
Actuate: power semiconductors

Semiconductor market forecasts predict growth for 2022; the range for 2023 is broader



Global Semiconductor Market

Market size in billion US-Dollar

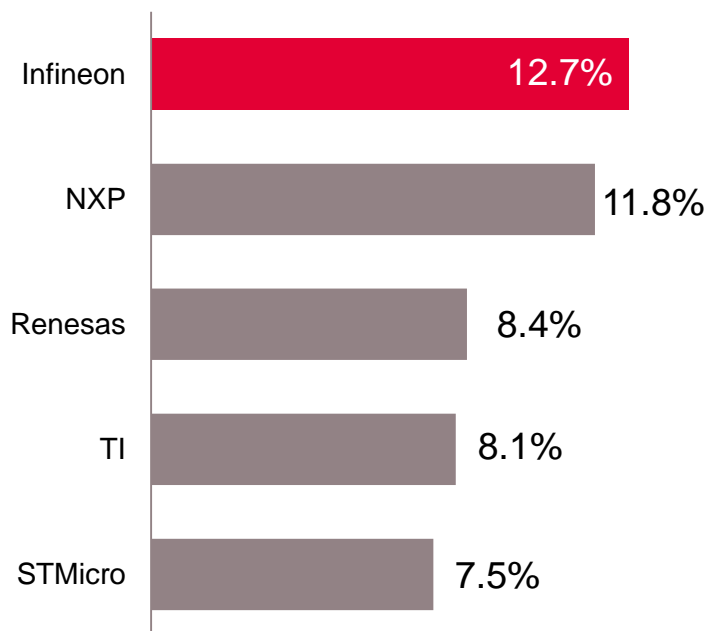


Source: WSTS for historical data. Forecast: Ø of WSTS, Omdia, Gartner, IC Insights, TechInsights (formerly VLSI Research); last update 20 July 2022

Infineon is a top player in all target markets

Automotive semiconductors

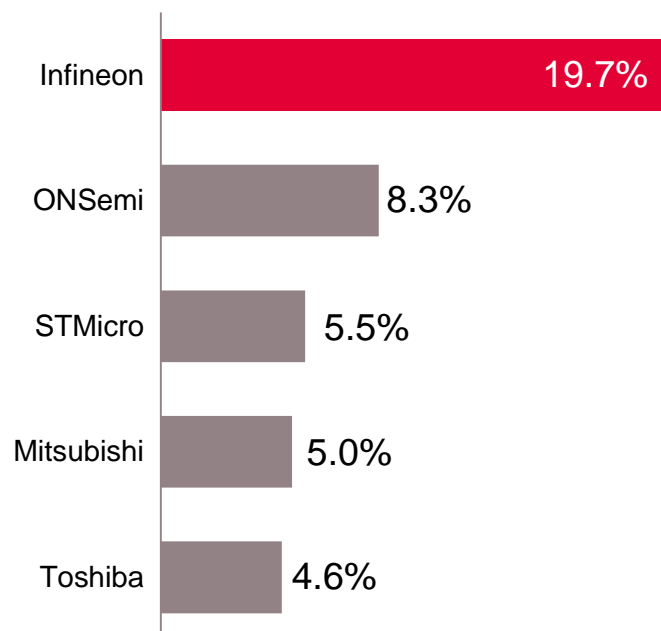
total market in 2021: \$46.7bn



Source: Based on or includes research from Strategy Analytics, "Automotive Semiconductor Vendor Market Shares", March 2022.

Power discretes and modules

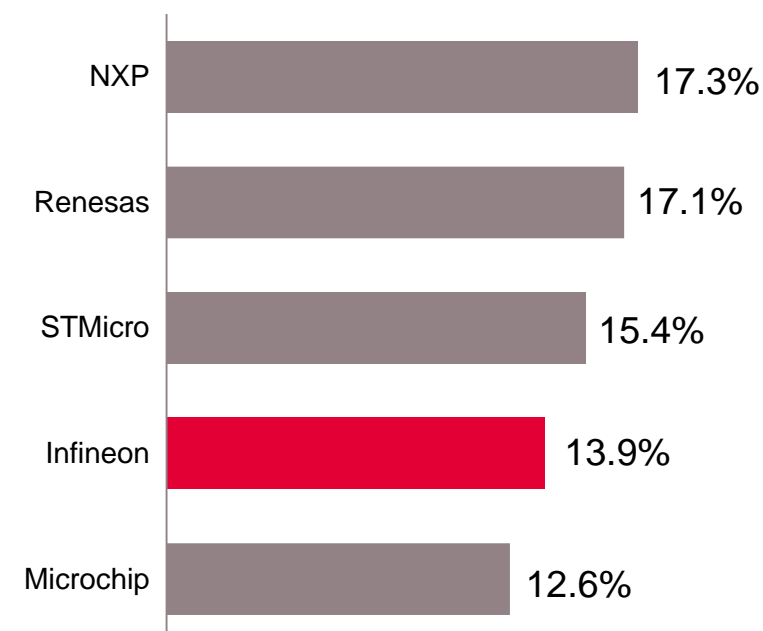
total market in 2020: \$20.9bn



Source: Based on or includes content from Omdia: Power Semiconductor Market Share Database – 2020, September 2021.

Microcontroller suppliers

total market in 2021: \$21.9bn

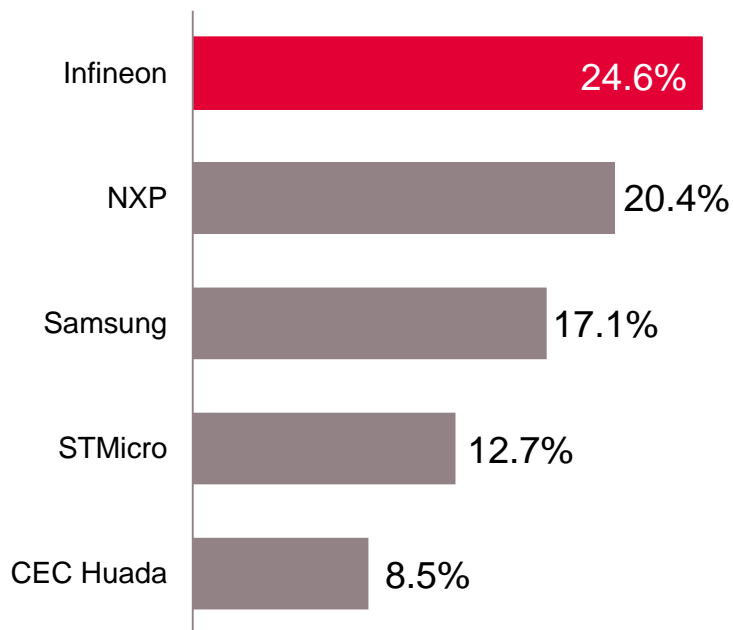


Source: Based on or includes content from Omdia: Annual 2001-2021 Semiconductor Market Share Competitive Landscaping Tool – Q4 2021, March 2022.

Infineon is a top player in all target markets

Security Ics

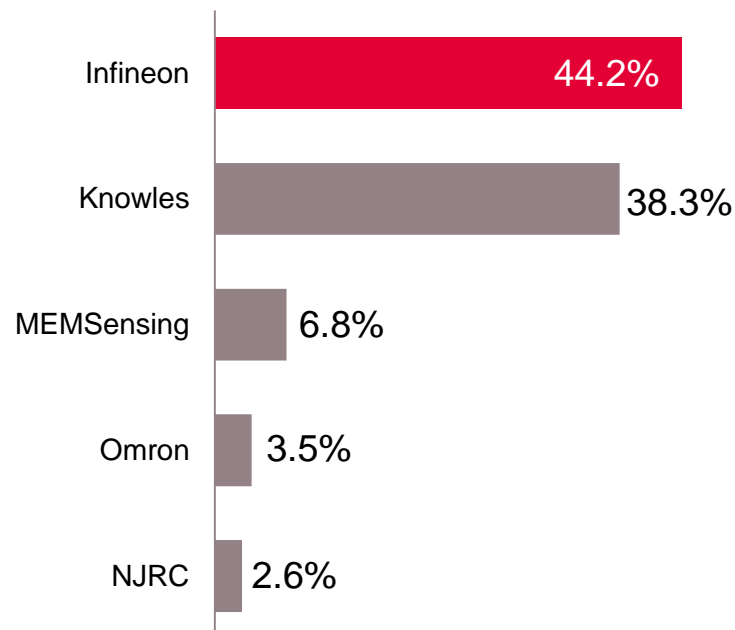
total market in 2020: \$2.8bn



Source: Based on or includes research from ABI Research, "Smart Card and Embedded Security IC Technologies", October 2021.

MEMS die market share

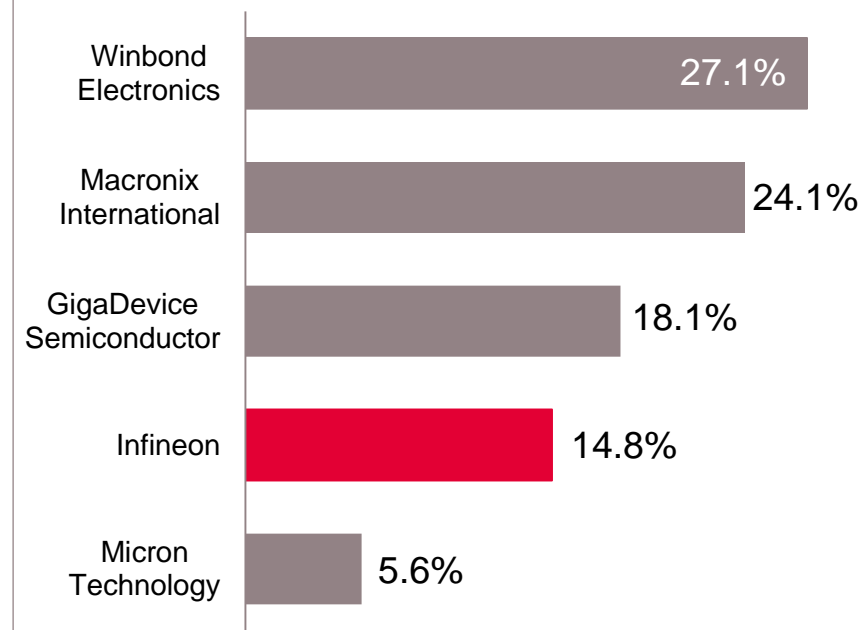
total market in 2020: 6.0bn units



Source: Based on or includes content from Omdia: MEMS Microphones Dice Market Shares 2021, July 2021.

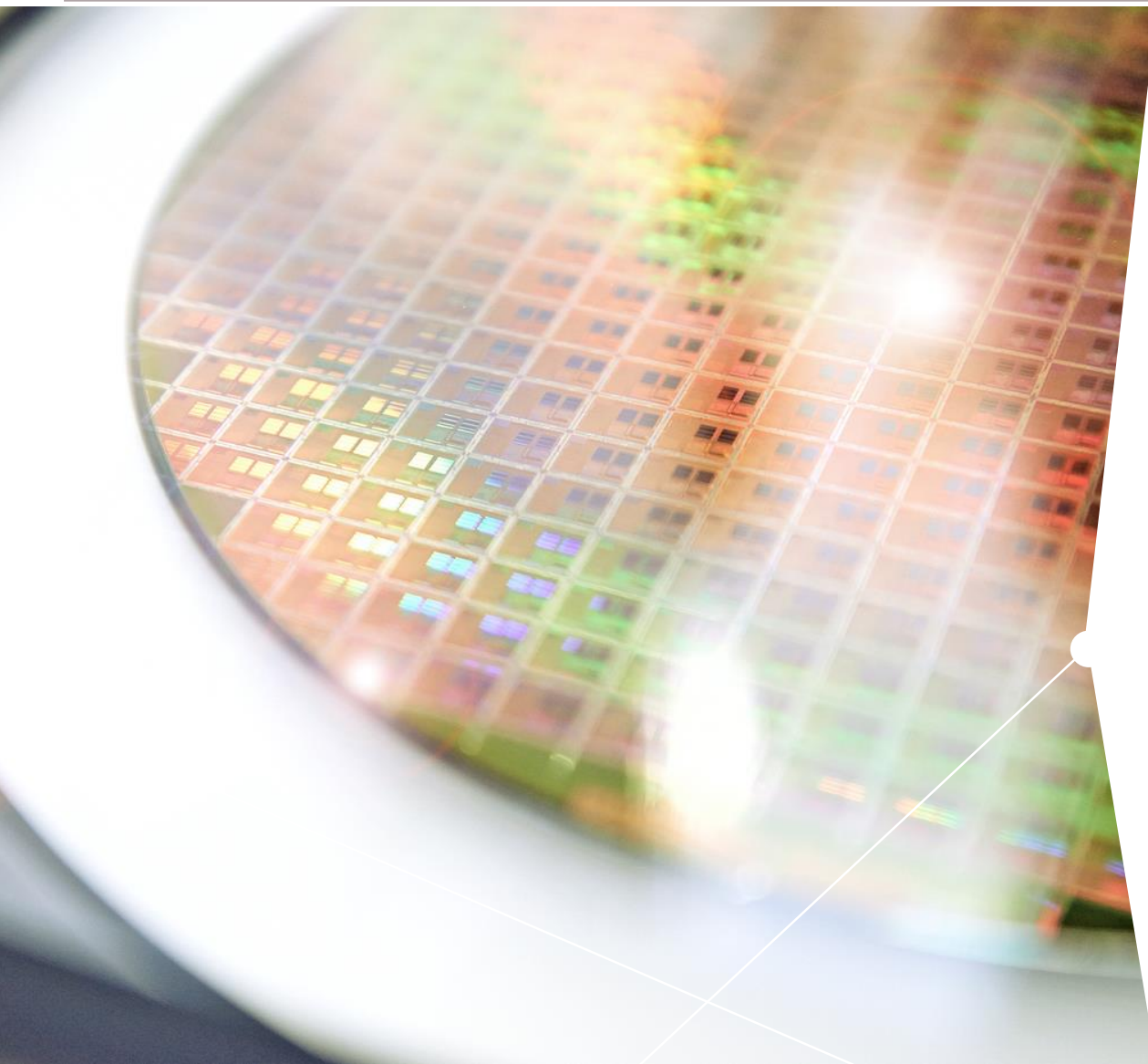
NOR Flash

total market in 2020: \$2.4bn

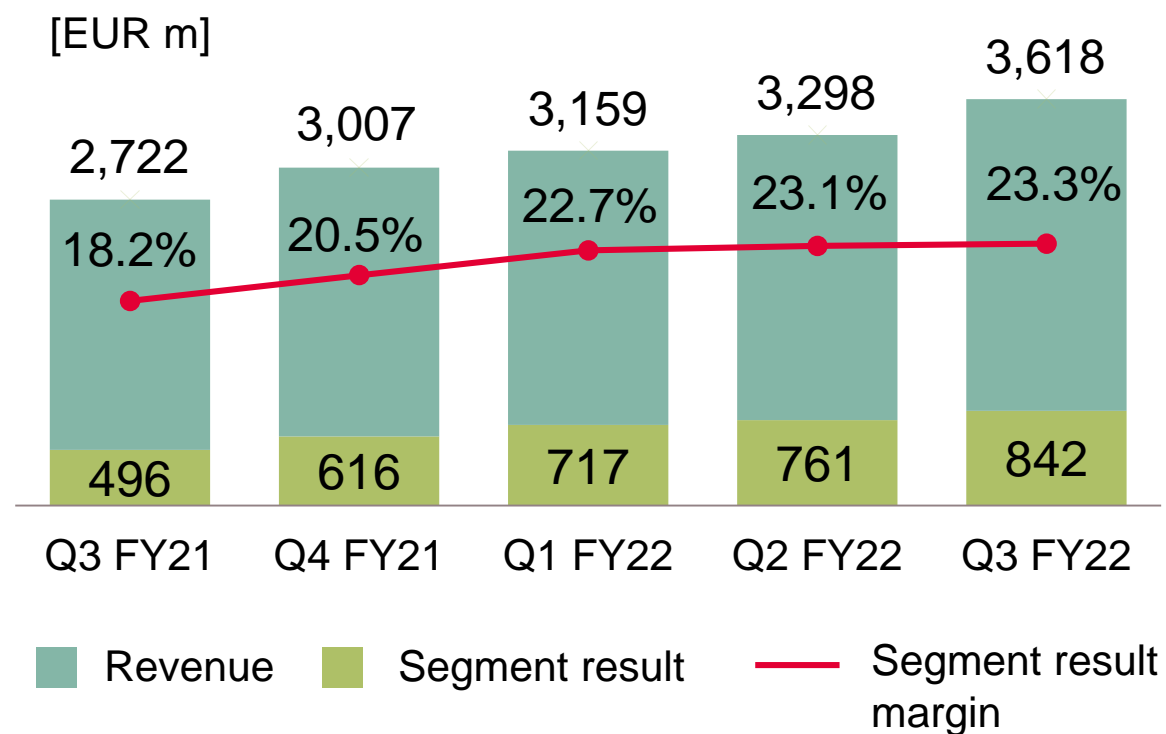


Source: Based on or includes content from Omdia: Annual 2001-2020 Semiconductor Market Share Competitive Landscaping Tool – Q4 2020, March 2021.

Infineon follows a profitable growth path



Revenue and result



Revenue split by segment¹

Connected Secure Systems



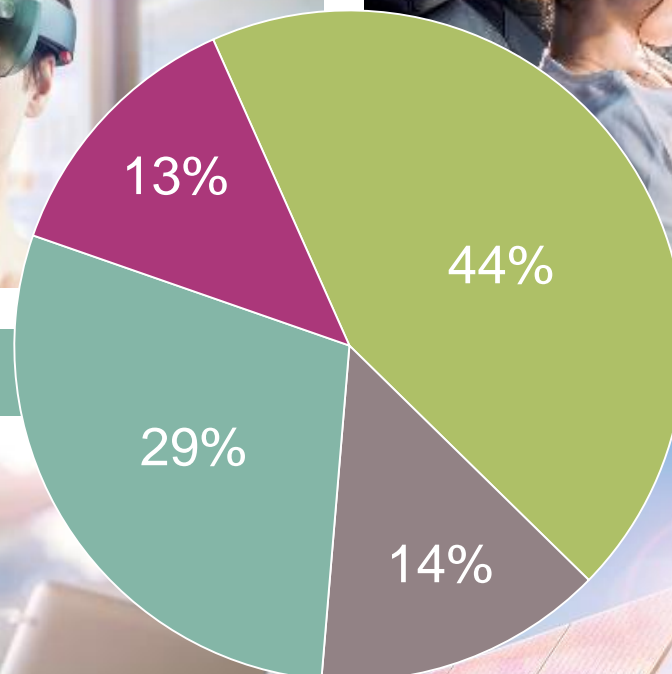
Automotive



Power & Sensor Systems



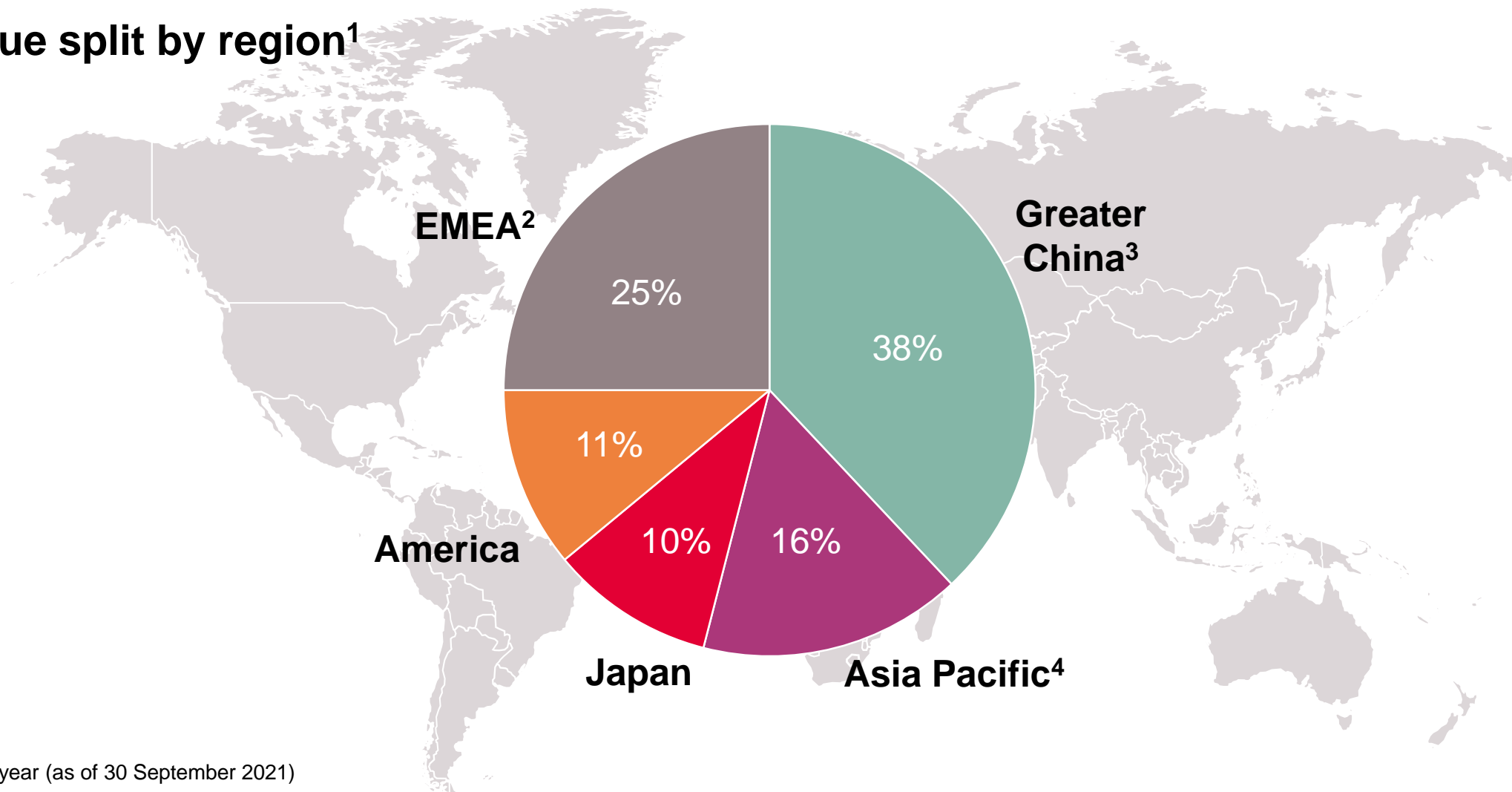
Industrial Power Control



¹ 2021 Fiscal year (as of 30 September 2021)

Infineon is operating in all major regions of the world

Revenue split by region¹



¹ 2021 Fiscal year (as of 30 September 2021)

² Europe, Middle East, Africa ³ Greater China comprises Mainland China, Hong Kong, and Taiwan ⁴ Asia Pacific (excluding Greater China and Japan)

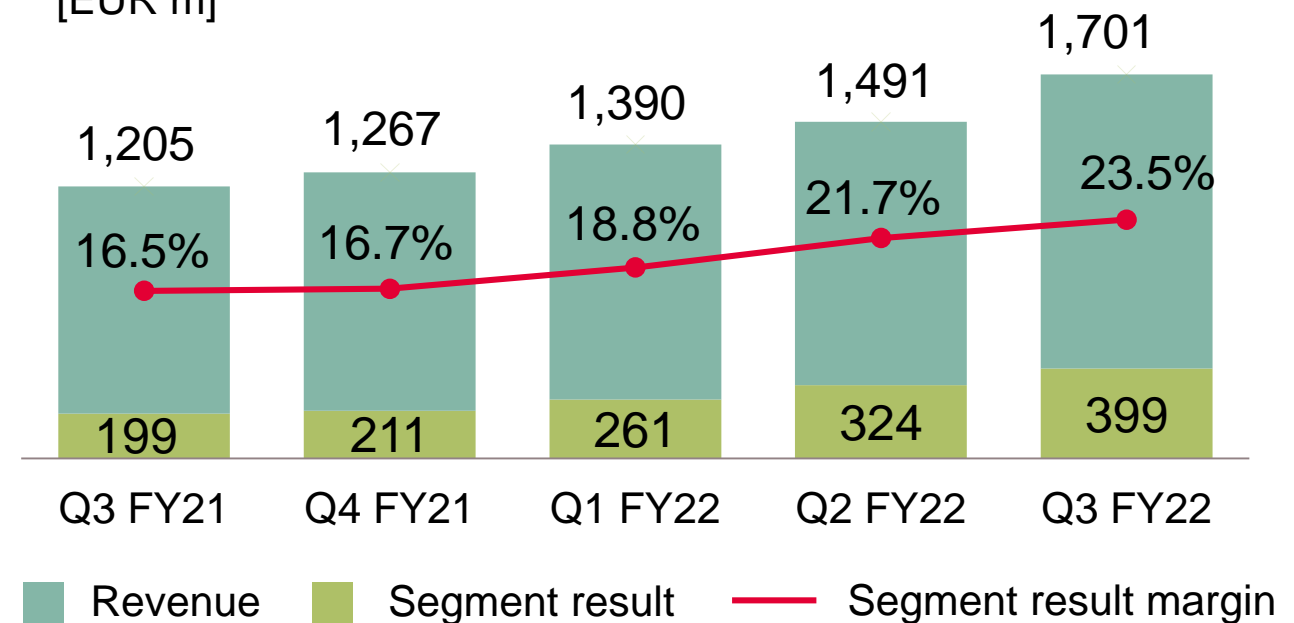
Automotive shapes the future of mobility with microelectronics enabling clean, safe, and smart cars



Core applications:

Assistance systems and safety systems, comfort electronics, infotainment, powertrain, security

[EUR m]

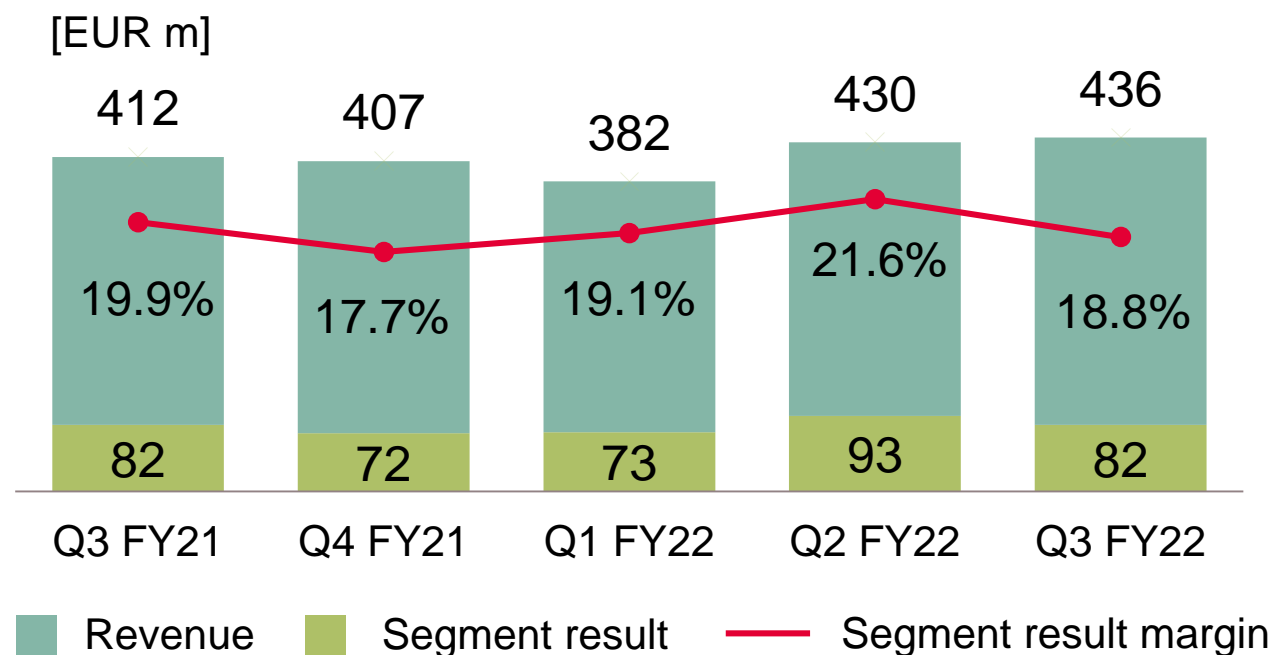


Industrial Power Control empowers a world of unlimited green energy



Core applications:

Energy generation, energy storage, energy transmission, home appliances, industrial drives, industrial power supplies, industrial robotics, industrial vehicles, traction



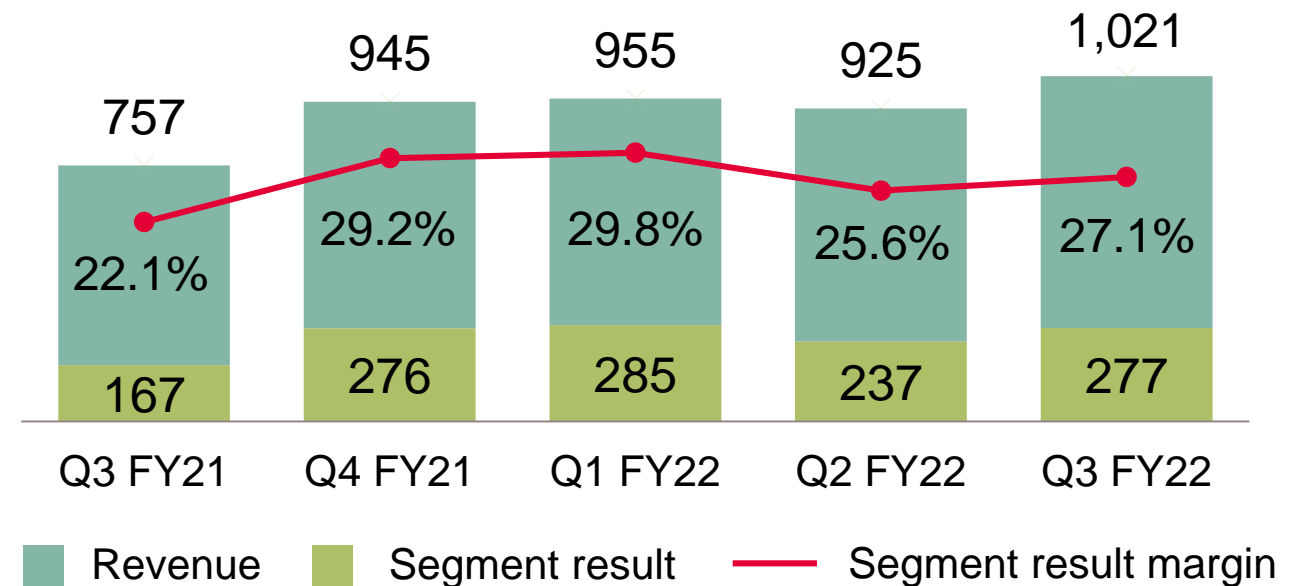
Power & Sensor Systems drives leading-edge power management, sensing, and data transfer capabilities



Core applications:

Audio amplifiers, BLDC motor, cellular communications infrastructure, charging stations for electric vehicles, HiRel, human-machine-interaction, Internet of Things, LED and conventional lighting systems, mobile devices, power management

[EUR m]



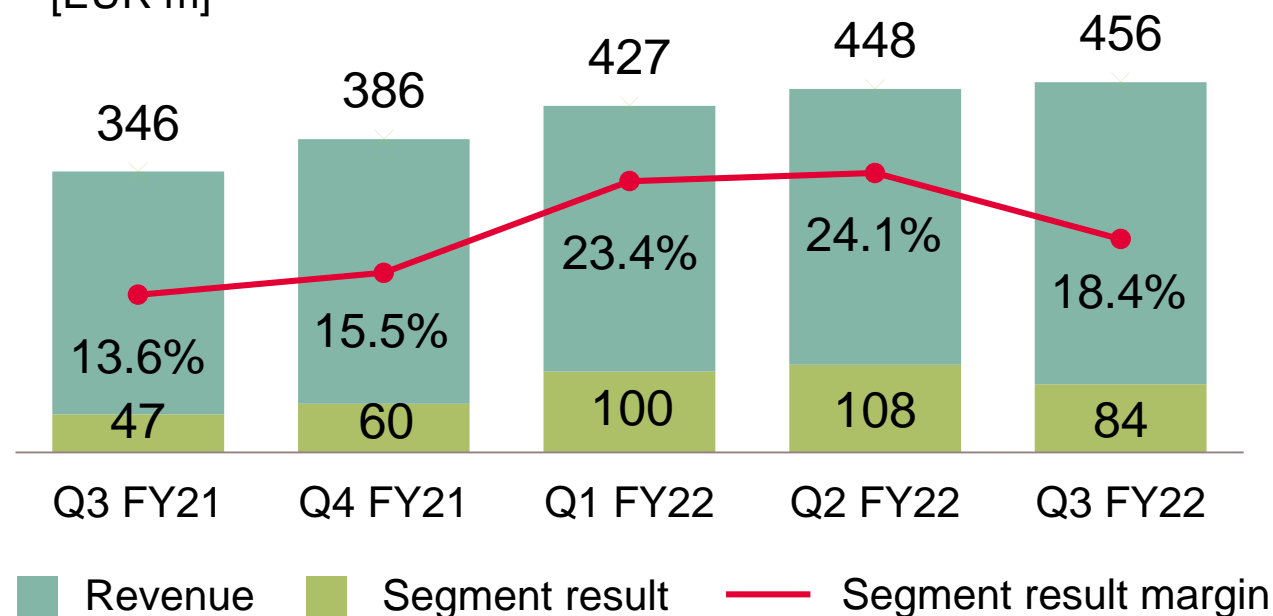
Connected Secure Systems is at the heart of the IoT



Core applications:

Authentication, automotive, consumer electronics, government identification documents, IoT, Mobile communications, payment systems, ticketing, access control, trusted computing

[EUR m]



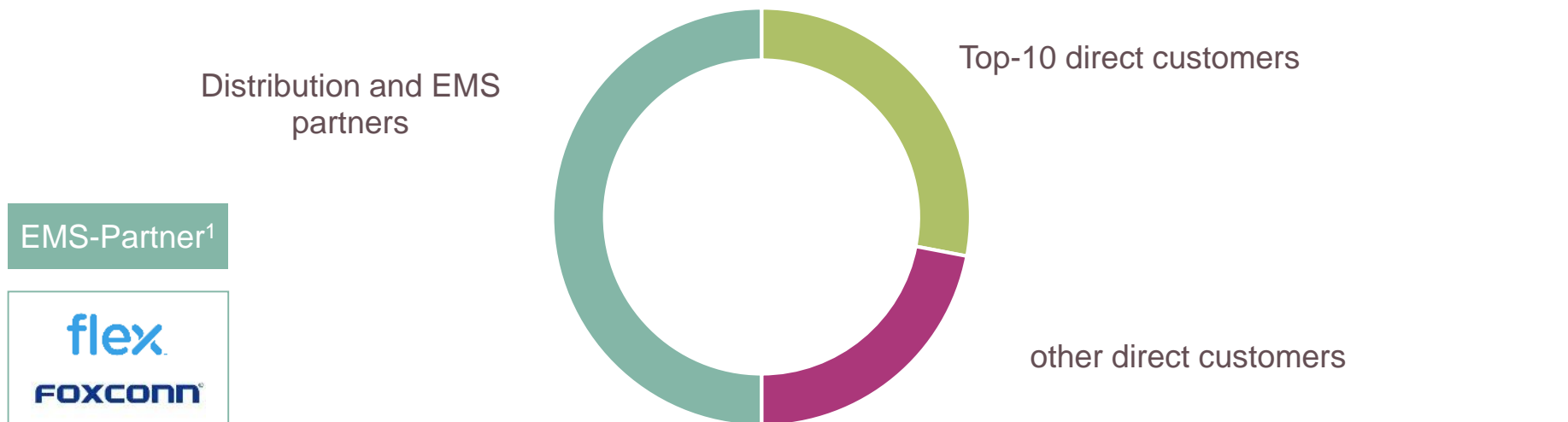
Well-balanced customer portfolio

Revenue by sales channel in FY 2021 (no customer represents more than 10% of total sales)

Distribution partners¹



Top-10 direct customers¹



EMS-Partner¹



¹ in alphabetical order

Close customer relationships are based on system know-how and application understanding



• A P T I V •

Astemo

BorgWarner

BOSCH

BYD
比亚迪汽车

Continental

DENSO

FORVIA

HELLA

HYUNDAI
MOTOR GROUP

LEAR
CORPORATION

Mando

MITSUBISHI
ELECTRIC

Nidec

Valeo

veoneer

vitesc
TECHNOLOGIES

ZF

ABB

ALSTOM

中国中车
CRRC

Danfoss

GOLDWIND

INOVANCE

LG

Midea

OMRON

Rockwell
Automation

Schneider
Electric

SEMIKRON
innovation + service

SIEMENS

SMA

SUNGROW

Vestas

YASKAWA

阿里巴巴
Alibaba.com

amazon

Advanced
Energy

Baidu 百度

BOEING

CISCO

DELL

DELTA

ERICSSON

Google

Goertek

inspur

LITEON

Thakita

NOKIA

SAMSUNG

solar **edge**

ZTE

AdvanIDE

cpi card group

fitbit

GPO

HARMAN

hp

IDEMIA
augmented identity

Lenovo

Microsoft

PERFECT
Plastic

Raspberry Pi

SONY

THALES

EMS partners

flex **FOXCONN**

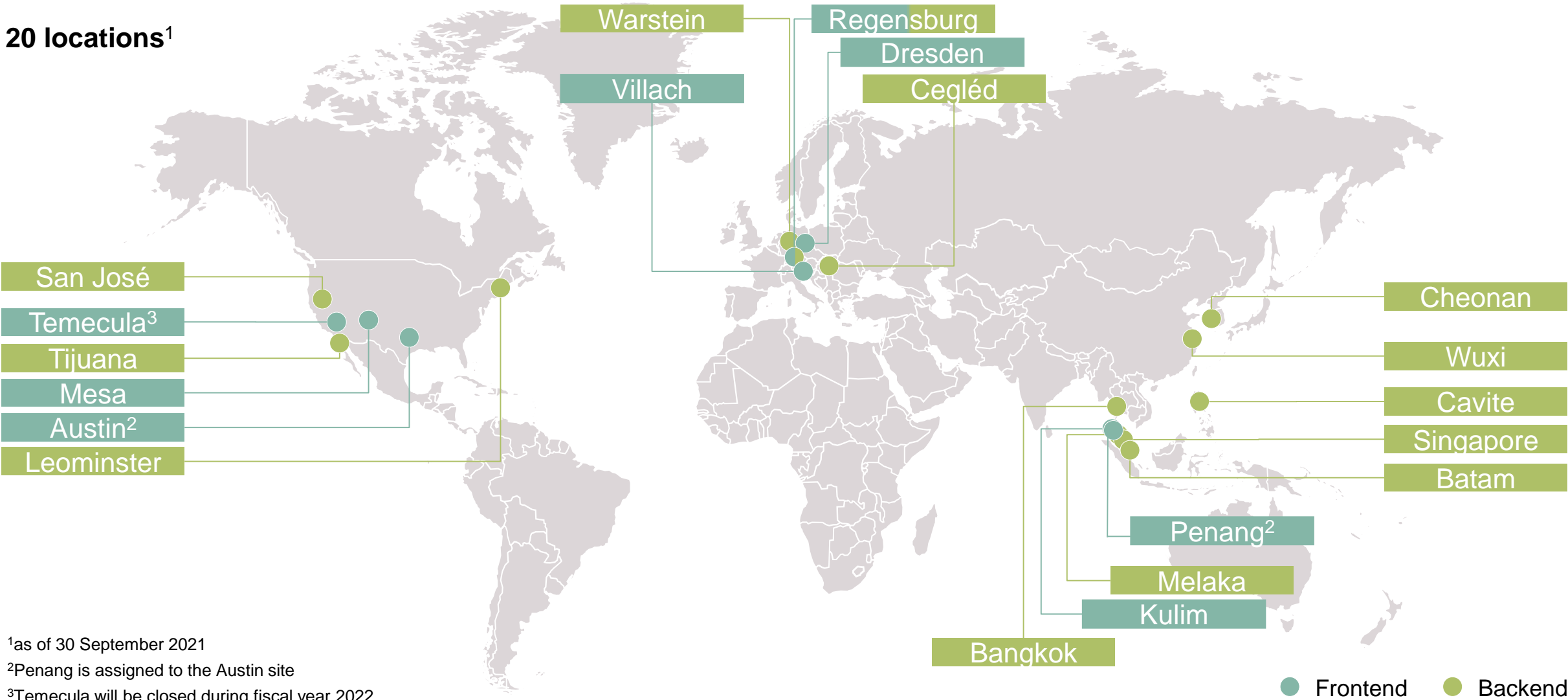
Distribution partners

ANOW **AVNET** **FUTURE** **Electronics** **Hakuto** **intron** **英恒** **JET** **MACNICA** **NEXTY** **Electronics** **RUTRONIK** **ELECTRONICS WORLDWIDE** **ASC** **威健** **WEIKENG**

Infineon is globally positioned with its network of Frontend and Backend manufacturing facilities



20 locations¹



¹as of 30 September 2021
²Penang is assigned to the Austin site
³Temecula will be closed during fiscal year 2022

Our global Research and Development activities

About 13 percent

of Infineon's annual revenue goes into Research and Development (R&D). In fiscal year 2021, R&D investments amounted to about 1.4 billion euros.

29,500 patents in the overall portfolio

show a high level of innovative strength and long-term competitiveness. In fiscal year 2021 alone, Infineon registered about 1,700 new patents.

Numerous innovative ecosystems

with tech companies, universities and research institutes are of great importance to Infineon.



56¹ sites in 18 countries and regions:

Americas	Richmond (Canada); Andover, Austin, Beaverton, Chandler, Colorado Springs, El Segundo, Hazlet, Irvine, Leominster, Lexington, Lynnwood, Milpitas, San Diego, San José and Warwick (all USA)
Asia Pacific	Bangalore (India); Seoul (Korea); Ipoh, Kulim, Melaka and Penang (all Malaysia); Muntinlupa (Philippines); Singapore
Greater China	Chengdu, Shanghai, Shenzhen, Xi'an (all Mainland China); Hsinchu and Taipei (both Taiwan)
Japan	Tokyo, Nagoya, Sendai (all Japan)
Europe	Herlev (Denmark); Augsburg, Dresden, Duisburg, Erlangen, Langen, Neubiberg, Regensburg and Warstein (all Germany); Le Puy-Sainte-Réparate (France); Bristol and Reigate (both Great Britain); Cork and Dublin (both Ireland); Netanya (Israel); Padua and Pavia (both Italy); Graz, Linz and Villach (all Austria); Bukarest (Rumania); Lviv (Ukraine)

¹ as of 30 September 2021

Responsible action, sustainable profitable growth



Infineon ranks among the 10 percent¹ most sustainable companies in the world

- › Sustainability at Infineon includes **social, ecological, and economic values**
- › Infineon was one of the first semiconductor companies to voluntarily commit to the **Ten Principles of the UN Global Compact**
- › Infineon meets **global societal challenges** such as climate protection, energy efficiency, and resource management with innovative products
- › Infineon's climate target is to become **carbon-neutral by 2030²**. Emissions are to be cut by 70 percent over the 2019 calendar year³ levels by 2025
- › **External evaluation of the commitment:**
 - MSCI ESG Research rates Infineon with AA for the fourth consecutive year
 - Included in the Dow Jones Sustainability™ World Index for the seventh time in a row
 - Received "Gold Status" of the rating agency EcoVadis six times and has been awarded a Platinum EcoVadis Medal in 2022.

¹ Based on the results of The Sustainability Yearbook 2022 by S&P Global in cooperation with RobecoSam.

² In terms of Infineon's direct and indirect energy- and heat-related emissions (Scope 1 and 2).

³ Including Cypress.

For further information: [Infineon Sustainability Report 2021](#)

Infineon is committed to binding CO₂ reduction targets

1.

CO₂ neutrality by 2030 – primarily by avoiding emissions

2.

Realization of 70 percent of the required savings and compensations by 2025

Corporate Social Responsibility

We create a net ecological benefit

Our products and solutions enable a net ecological benefit, equal to the average annual CO₂ emissions from electricity consumption of more than 119 million people living in Europe.¹



Net ecological benefit: CO₂ emissions reduction of more than 70 million tons



¹ Based on the average electricity consumption of private households in Germany and official energy conversion factors.

² This figure takes into account manufacturing, transportation, own vehicles, travel, raw materials and consumables, chemicals, water/waste water, direct emissions, energy consumption, waste, etc. as well as direct and indirect energy-related emissions by manufacturing service providers. It is based on data collected internally and publicly available conversion factors and relates to the 2021 fiscal year.

³ This figure is based on internally established criteria, which are described in the explanatory notes. The figure relates to the 2020 calendar year and takes into account the following application areas: automotive, LED, induction cookers, servers, renewable energy (wind, photovoltaic) and cell phone chargers as well as drives. CO₂ savings are calculated based on the potential savings generated by technologies in which semiconductors are used. The CO₂ savings are allocated based on Infineon's market share, semiconductor share, and the lifetime of the technologies concerned, based on internal and external experts' estimations. Despite the fact that carbon footprint calculations are subject to imprecision due to the complex issues involved, the results are nevertheless clear.

Infineon's employees create a better future together



Preethi Baran
Director, Field Sales,
in Livonia

"It's motivating to work with our customers to transform our mobility through innovation, safety and security."



Thomas Wrzesinsky
Maintenance Technician,
in Dresden

"We maintenance technicians keep production moving. I appreciate the teamwork: when everyone pulls together to find the error and to get the equipment running again."



Marcel Kuba
Director, Field Application
Engineering, in Munich

"The acquisition of Cypress enables Infineon now to offer complete best in class system solutions for new automotive applications."



Dr. Pamela Lin
Senior Engineer Advanced
Analytics, in Singapore

"It's amazing how we use advance data analytics and AI techniques to create intelligent systems for solving complex business problems and driving manufacturing efficiency."

At Infineon, **50,280¹** people from over **100** countries work together around the world toward one mission:
to make life **easier**, **safer**, and **greener**.

For more information please visit www.infineon.com/career

¹ as of 30 September 2021

Our competitive advantage: Differentiating as quality leader

Our path

We do what we promise.
That's quality made by Infineon.

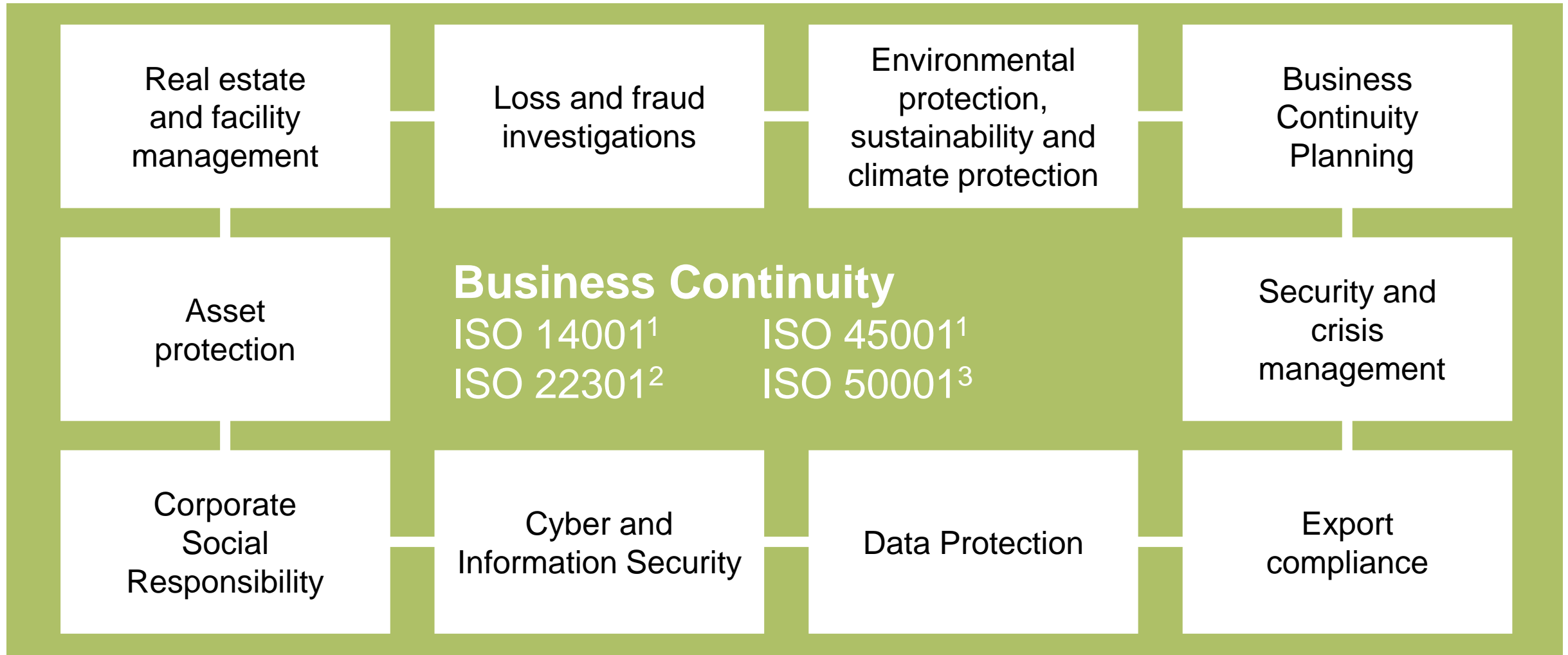
Our aspiration

Zero defect regarding the committed

- › functionality
- › reliability
- › time
- › volume and cost

Our foundation

International standards such as ISO 9001,
IATF 16949, AS 9100, IEC 17025, ISO 26262



¹ ISO 14001/45001 worldwide certification scheme.

² ISO 22301 certified in Villach (Austria) and Dresden (Germany).

³ ISO 50001 certified at largest European manufacturing sites and corporate headquarters Campeon (Germany).

⁴ Different certifications (e.g. TISAX).

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Part of your life. Part of tomorrow.