

# Company Presentation

Infineon Technologies AG  
August 2020



# Infineon is a globally leading semiconductor player



**top 10**

semiconductor  
company

**ca. 47,400**

total employees

**ca. 9,200**

R&D employees

**leading player**

in automotive, systems for power management and drives, sensor systems, connected secure systems, wireless combos, differentiated memories

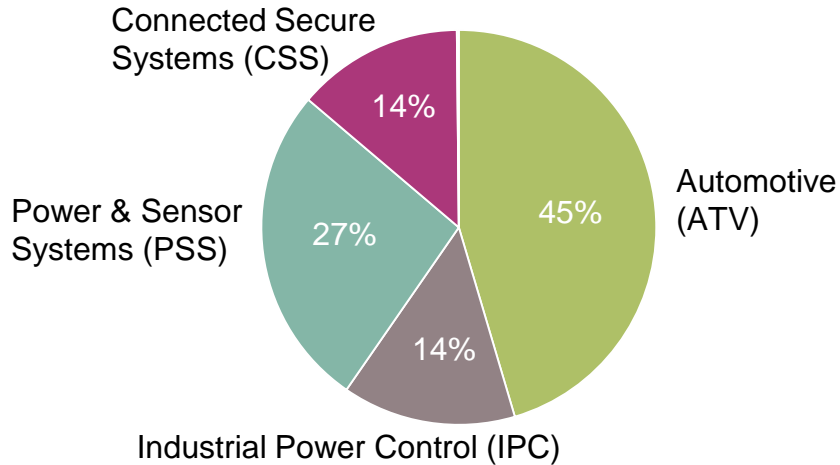
**9%+ | 19% | 13%**

target operating model\*

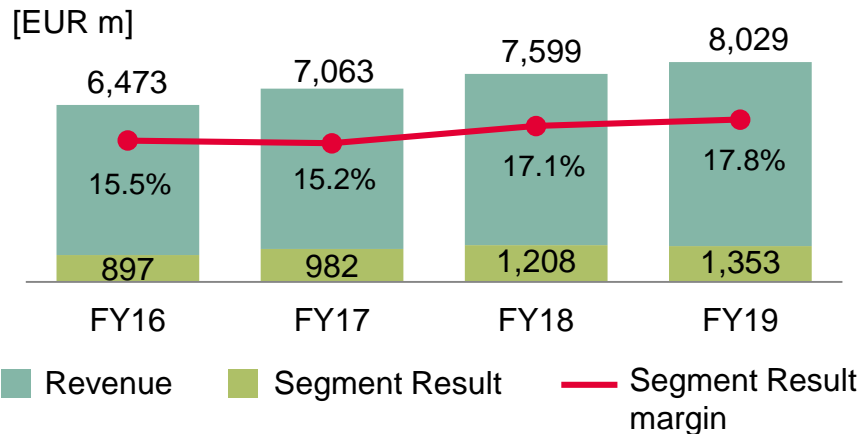
\* over the cycle 9%+ revenue growth; 19% Segment Result margin; investment-to-sales ratio of 13% targets to approach as integration progresses

# Infineon at a glance

## Business Segments Revenue\*



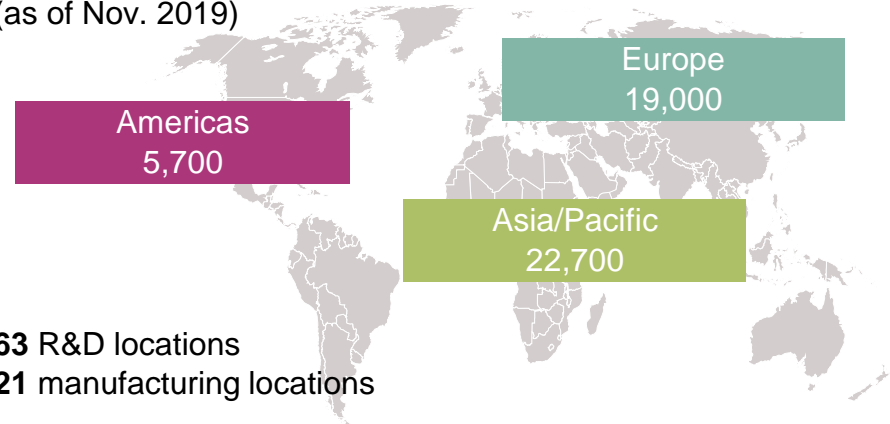
## Financials



\* including Cypress, 12 months until 31 March 2020

## Employees

47,400 employees worldwide  
(as of Nov. 2019)



63 R&D locations  
21 manufacturing locations

## Market Position



\*\*combined market share 2019 of Infineon and Cypress based on their individual figures.

# 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



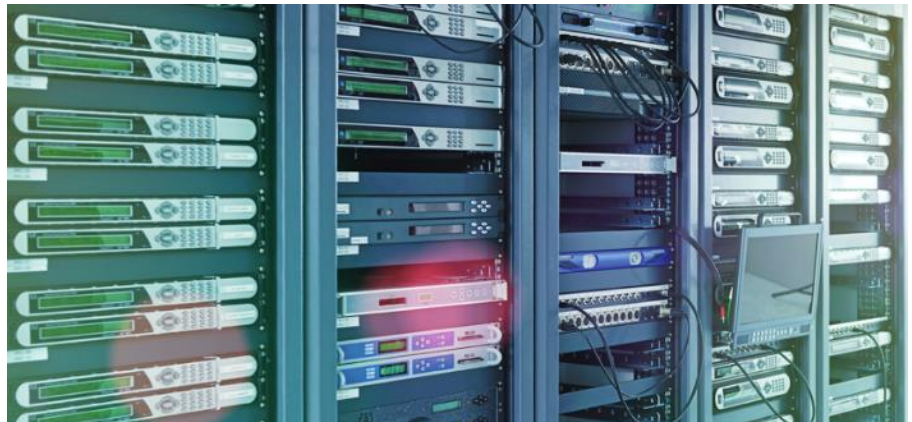
**Demographic & social change**



**Climate change & resource scarcity**



**Urbanization**



**Digital transformation**

# Business growth in the semiconductor market is driven by four key trends

Energy efficiency



Mobility



Security



IoT & big data



# Energy efficiency



The challenges of rising demand for energy and growing depletion of fossil resources call for smarter, more efficient ways of generating, transmitting and consuming energy.

Semiconductors reduce the energy consumed by electronic devices, enabling systems that make the way we live and work greener. As the global leader in power semiconductors, Infineon's products and solutions allow energy to be generated more efficiently and from renewable sources.

## Application examples

- › **Empowering the energy revolution:** Leading power devices and subsystems for renewables and efficient energy transmission and storage
- › **Turning eMobility into reality:** Innovative IC solutions for xEVs, eBikes and eScooters
- › **Ensuring uninterruptible power supplies:** Power components for reliable UPS systems
- › **Optimizing performance:** MCUs and power semiconductors for smart motor controls / drives
- › **Advancing the future of light:** LED driver ICs, MOSFETs and sensors for lighting applications

# Mobility



Megatrends like demographic shifts, social change and urbanization are accentuating the need to manage rising public and private traffic volumes while mitigating the environmental and climate impact of this traffic. Sustainable, smart mobility solutions are essential given the growing scarcity of natural resources.

Through its semiconductors, Infineon is building more intelligence, responsiveness and autonomy into transport systems – enabling mobility solutions ranging from eBikes through hybrid and fully electric vehicles to underground and high-speed trains.

## Application examples

- › **Making mobility clean:** Efficient semiconductors for electric drivetrains and CO<sub>2</sub> reduction
- › **Making autonomous driving safe and reliable:** Chip solutions for automated driving applications (from ADAS to autonomous driving)
- › **Making mobility smart:** Broad product portfolio of sensors and security ICs for individual convenience and connectivity



# 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.

With more than 30 years of experience in the security market, Infineon offers tailored and ready-to-use security solutions serving a wide range of applications from smart cards, passports and cars to new and emerging use cases.

## Application examples

- › **Securing eGovernment:** Security solutions for electronic ID applications
- › **Building trust in security:** Hardware-based security solutions for reliable device authentication and trusted computing
- › **Protecting smart factories:** High-quality ICs and state-of-the-art encryption technologies for highly secure M2M communication
- › **Safeguarding connected cars:** Advanced security solutions for connected mobility

# IoT & big data



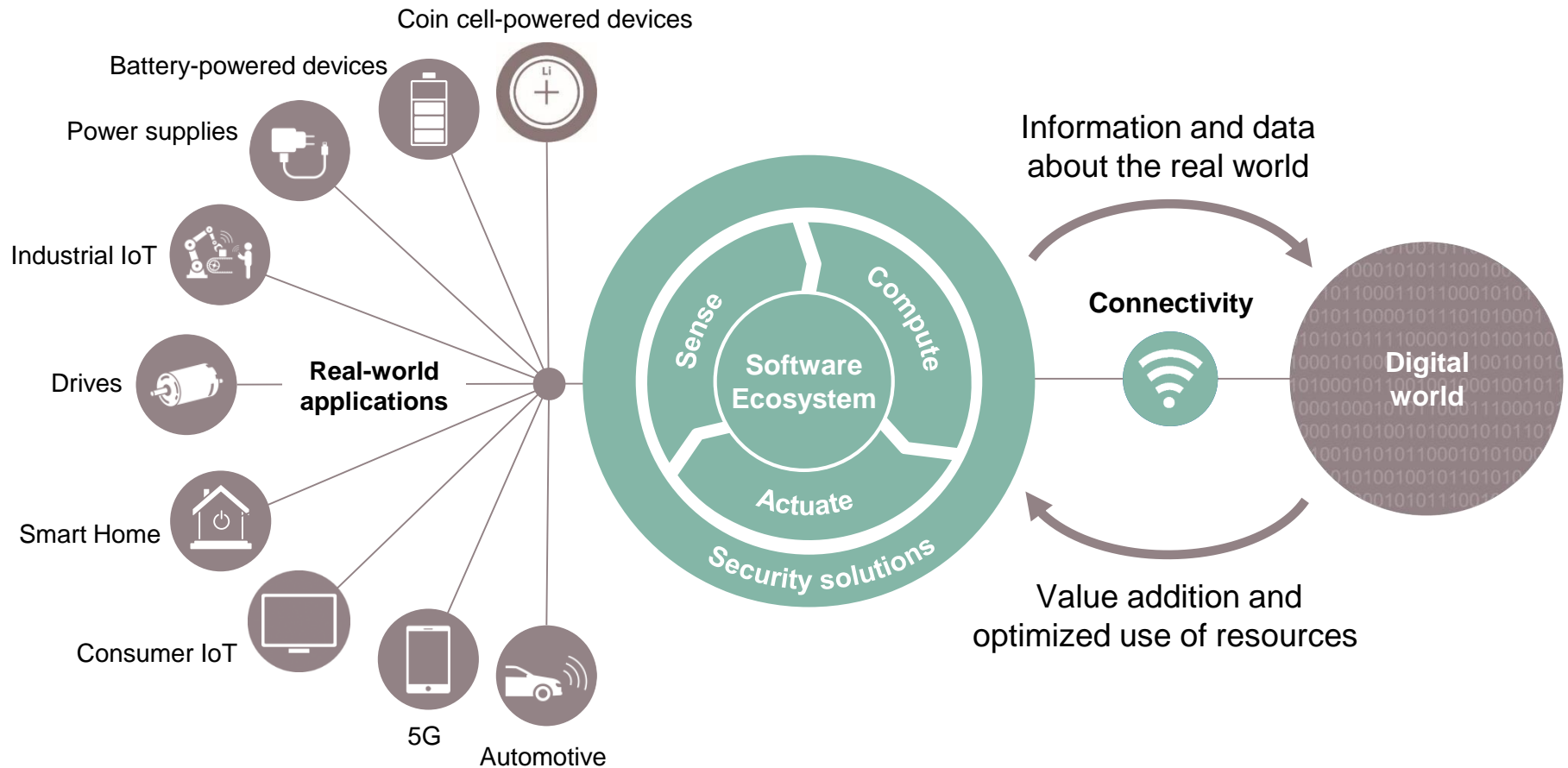
In today's digital world, more and more things are connected to the Internet. The volume of data generated, transferred and stored is rising day by day, so too is the need for high-speed and low-latency communication.

With its sensors, controllers, power devices and authentication products, Infineon enables smart, secure and power-efficient IoT solutions for smart devices, homes, cities, factories and vehicles. It provides cutting-edge power solutions for data centers and servers as well as leading RF chipsets supporting mission-critical infrastructures like 5G.

## Application examples

- › **Sensing the connected world:** Highly reliable and precise sensors for automotive, industrial and general applications
- › **Implementing Industry 4.0:** Innovative IC solutions for digital automation and robotics
- › **Driving hyper-scale data centers and cloud computing:** Cutting-edge power usage effectiveness (PUE) for server farms and reliable TPM solutions to secure data in the cloud
- › **Enabling smart infrastructures:** Advanced semiconductor solutions for smart cities, smart grids and next-gen wireless communication

# Infineon offers a unique portfolio that links the real and the digital world



Sense: sensors

Compute: microcontrollers, memories

Actuate: power semiconductors

Connectivity: Wi-Fi, Bluetooth, USB

# Our strategy is targeted at value creation through sustainable profitable growth



Focus	Technology leadership	System understanding
<ul style="list-style-type: none"><li>&gt; Focus on fastest growing segments of semi market</li><li>&gt; Tackle global megatrends</li></ul>	<ul style="list-style-type: none"><li>&gt; Leverage core competencies in different end markets to maximize ROI</li></ul>	<ul style="list-style-type: none"><li>&gt; Create value for customers through system understanding</li></ul>

Auto	Power	RF and sensors	Security
#1 in automotive semiconductors	#1; system and technology leader	Broad RF and sensor technology portfolio	Leader in connected secure solutions

Average-cycle financial targets*		
~9%+ p.a. Revenue growth	~19% Segment Result margin	~13% Investment-to-sales

\* financial performance to approach targets as integration progresses

# Semiconductor market forecasts expect a recovery in 2021

Global Semiconductor Market  
Market size in billion US-Dollar

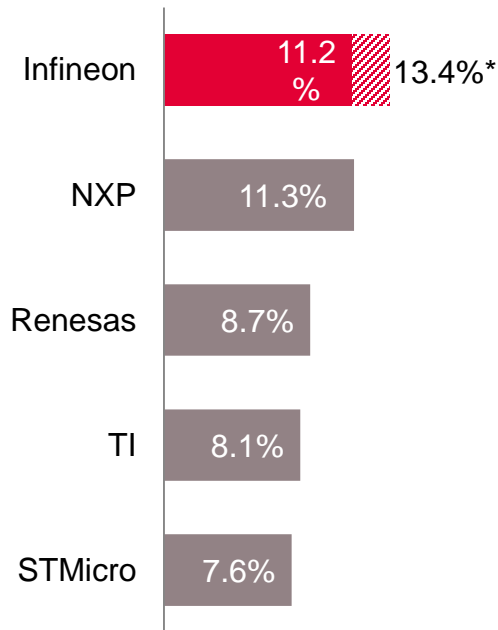


Source: WSTS for historical data. Forecast: Ø of WSTS, Omdia, Gartner, IC Insights; last update 27 July 2020

# Infineon is a top player in all target markets

## Automotive semiconductors

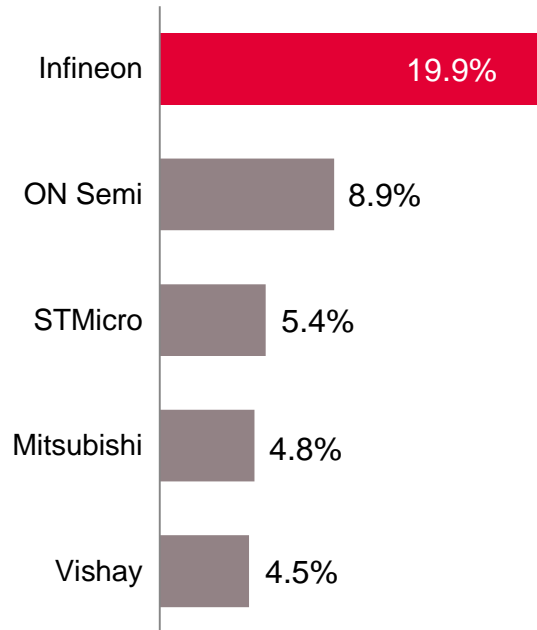
total market in 2019: \$37.2bn



Source: Strategy Analytics, "Automotive Semiconductor Vendor Share", May 2020, \* combined market share 2019 of Infineon and Cypress based on their individual figures. Cypress share: 2.2%

## Power discretes and modules

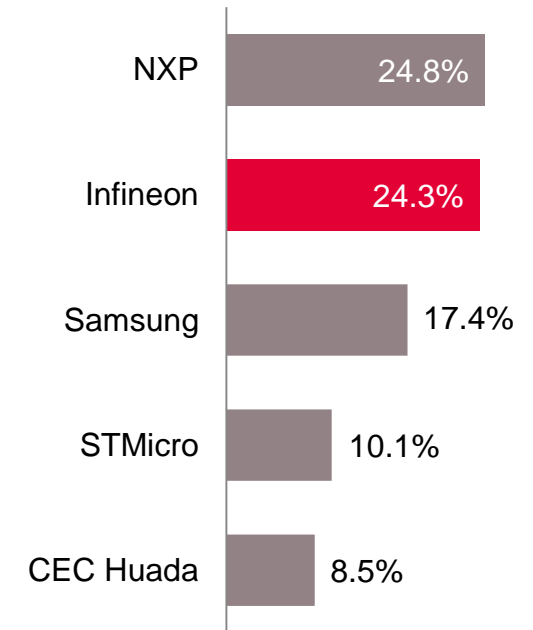
total market in 2018: \$21.0bn



Source: Based on or includes research from Omdia, "Power Semiconductor Market Share Database – 2018", September 2019.

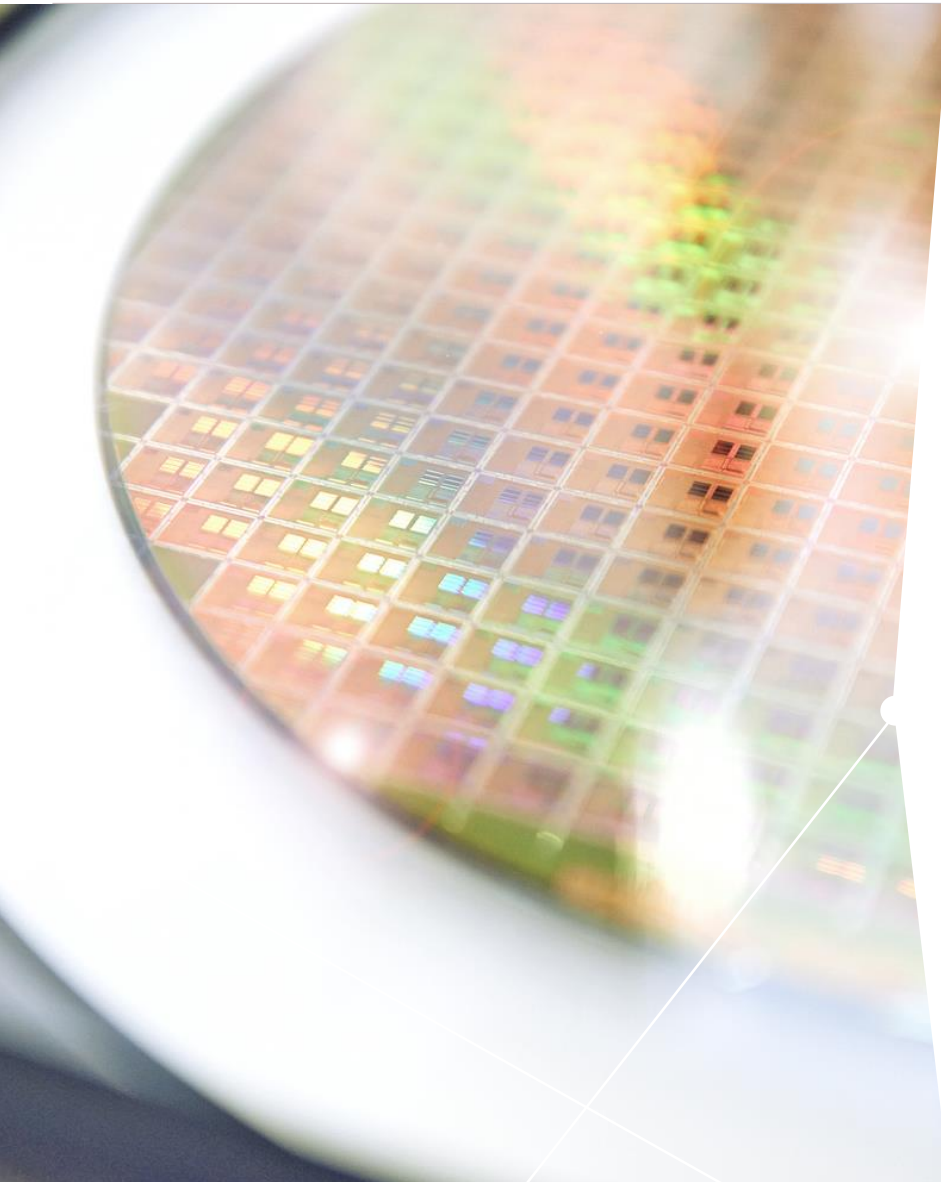
## Security ICs

total market in 2018: \$3.2bn



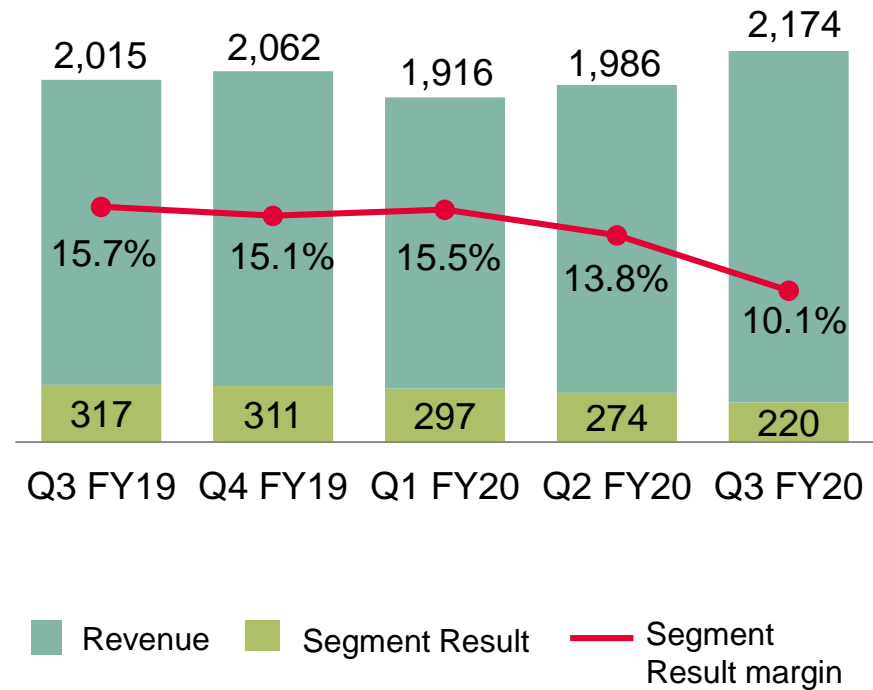
Source: ABI Research, "Smart card & secure ICs", September 2019

# Infineon is successful even during a period of economic decline



## Revenue and earnings

Infineon [EUR m]\*



# Revenue Split by Segment

## Connected Secure Systems



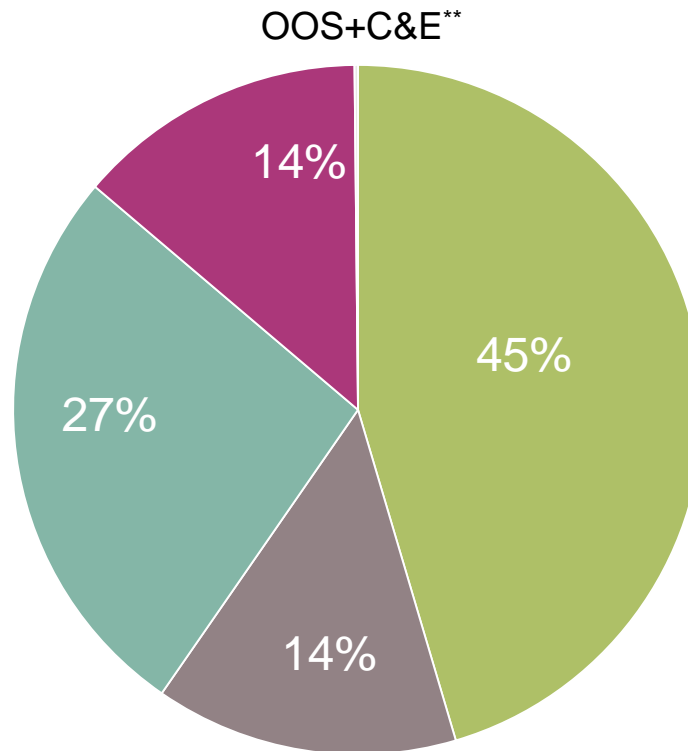
## Power & Sensor Systems



## Automotive



## Industrial Power Control

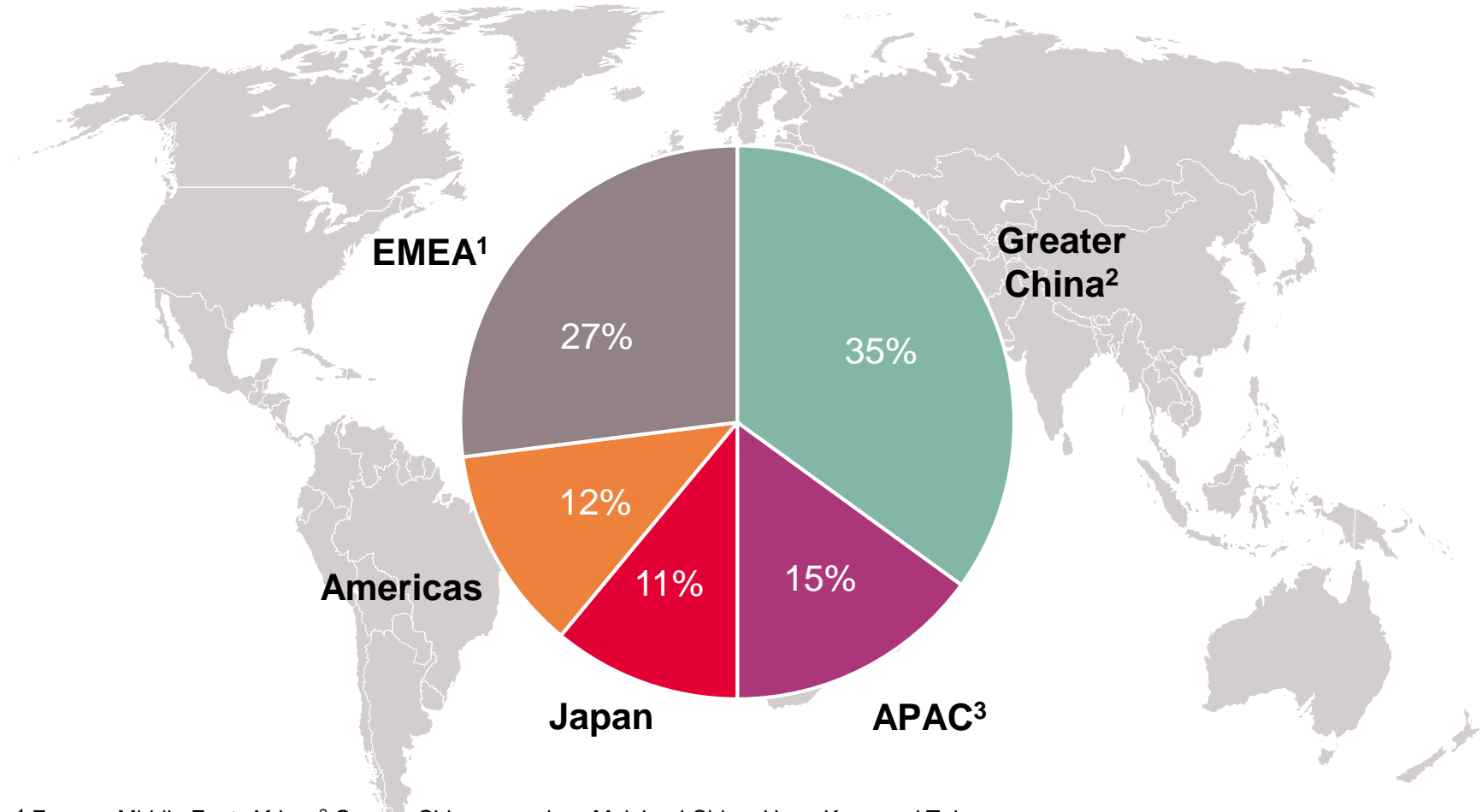


\* Revenue 12 months to 31 March 2020 \*\* Other Operating Segments; Corporate & Eliminations



# Infineon is operating in all major regions of the world

## Revenue by region\*



<sup>1</sup> Europe, Middle East, Africa <sup>2</sup> Greater China comprises Mainland China, Hong Kong and Taiwan

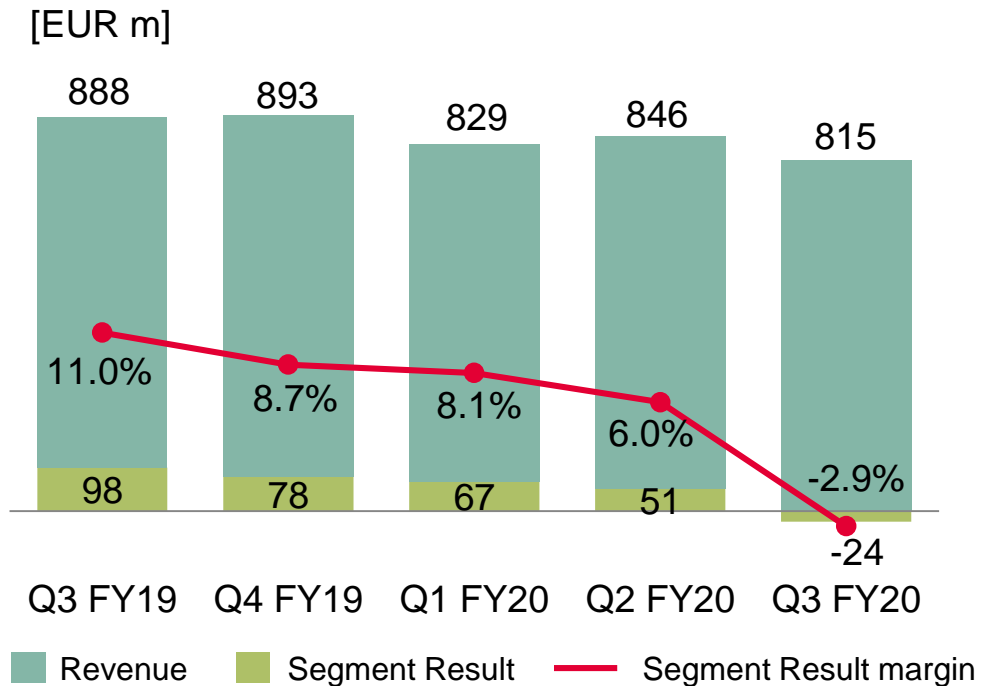
<sup>3</sup> Asia Pacific (excluding Greater China and Japan) \* 12 months until 31 March 2020

# Automotive shapes the future of mobility with cleaner, safer and smarter cars



## Core applications:

Assistance systems and safety systems, Comfort electronics, Powertrain, Security



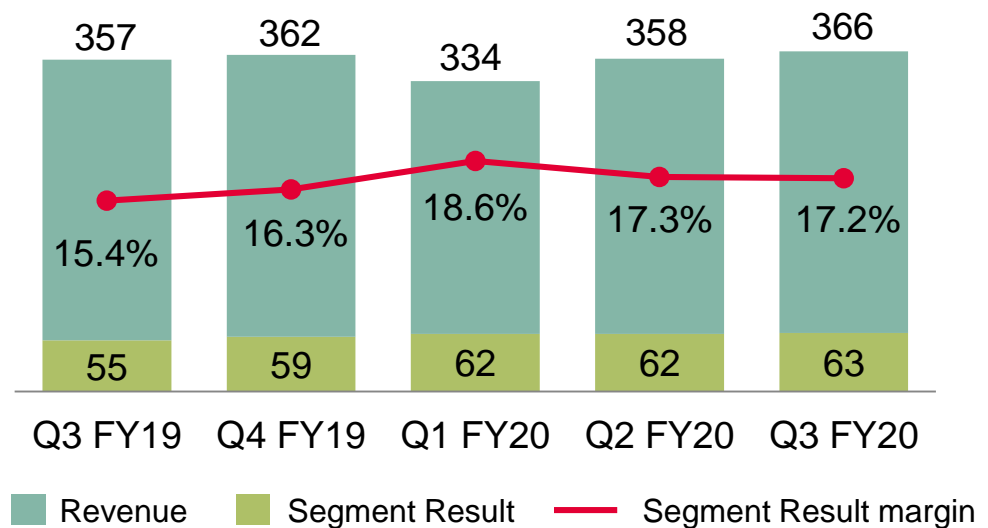
# Industrial Power Control empowers a world of unlimited energy



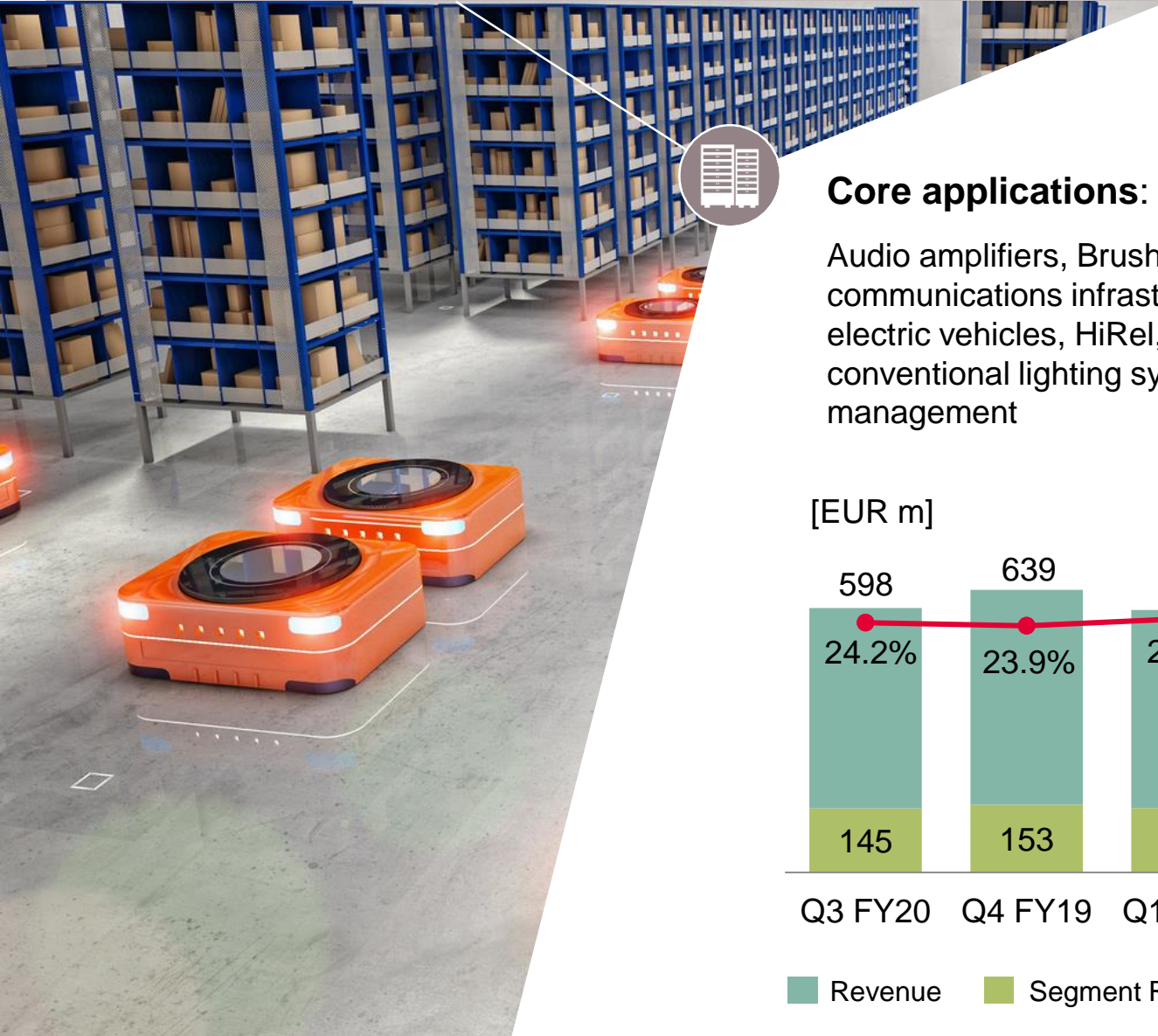
## Core applications:

Energy generation, Energy transmission, Energy consumption (Home appliances, Industrial vehicles), Industrial drives, Traction, Industrial power supplies, Industrial Robotics

[EUR m]



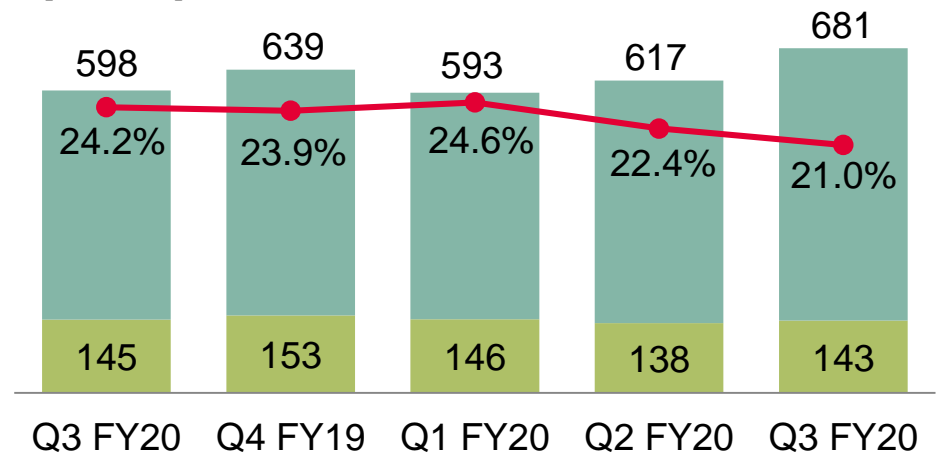
# Power & Sensor Systems creates solutions for power management, sensing, data transmission



## Core applications:

Audio amplifiers, Brushless direct current motor, Cellular communications infrastructure, Charging stations for electric vehicles, HiRel, Internet of Things, LED and conventional lighting systems, Mobile devices, Power management

[EUR m]



■ Revenue ■ Segment Result — Segment Result margin

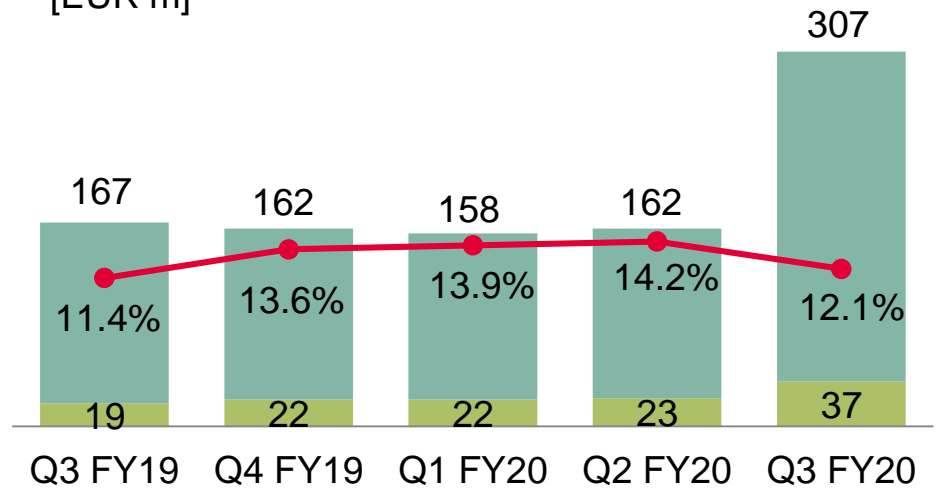
# Connected Secure Systems delivers security for a connected world



## Core applications:

Authentication, Automotive, Government identification documents, Internet of Things, Mobile communications, Payment systems, Ticketing, access control, Trusted Computing

[EUR m]



■ Revenue   ■ Segment Result   — Segment Result margin

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



**APTIV** **BOSCH**  
**DENSO** **BYD**  
**HITACHI** Inspire the Next **Continental**  
**LEAR** CORPORATION **HELLA**  
**KEIHIN** **HYUNDAI**  
**MITSUBISHI ELECTRIC** **Mando**  
**preh** **Valeo**  
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**HUAWEI** **LG** Life's Good  
**LITEON** **Makita**  
**NOKIA** **OSRAM**  
**SAMSUNG** **ZTE**

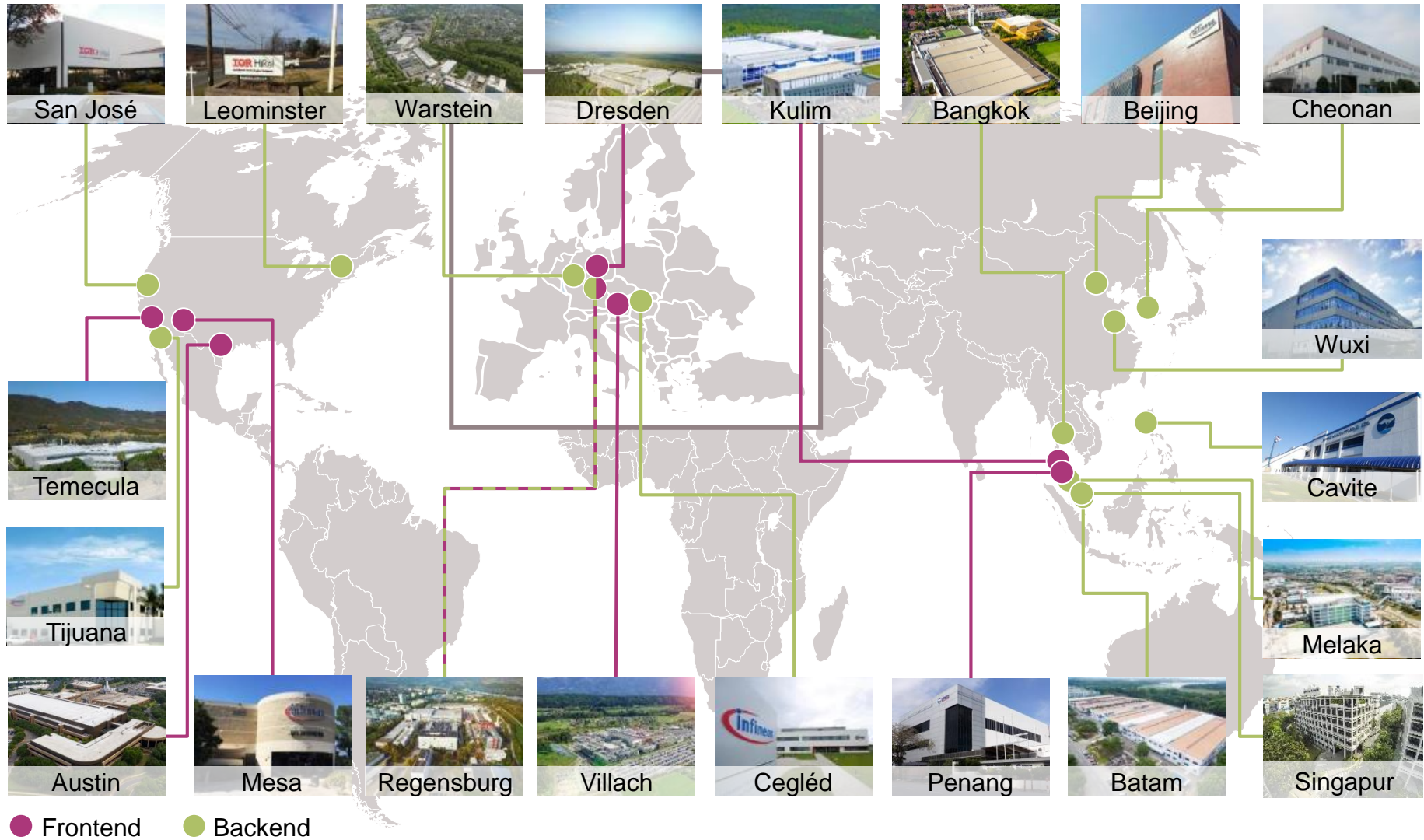


**GPO** **hp**  
**IDEMIA** augmented identity  
**Lenovo**  
**Microsoft**  
**THALES**  
**Watchdata**

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**flex** **FOXCONN**

**Distribution partners**  
**AVNET** **intron 英恒** **MACNICA** **NEXTE Electronics** **RUTRONIK** **ASC** **威健 WEIKN**

# Worldwide manufacturing sites frontend and backend



# Our global Research and Development locations



## 63 sites in 20 countries:

<b>Americas</b>	Richmond (Canada); Andover, Austin, Beaverton, Chandler, Colorado Springs, El Segundo, Germantown, Hazlet, Irvine, Leominster, Lexington, Lynnwood, Milpitas, Morrisville, San Diego, San José, San Mateo and Warwick (all USA)
<b>Asia</b>	Beijing, Chengdu, Hong Kong, Shanghai, Shenzhen and Xi'an (all China); Bangalore (India); Kawasaki, Nagoya, Sendai and Tokyo (all Japan), Seoul (Korea); Ipoh, Kulim, Melaka and Penang (all Malaysia); Muntinlupa (Philippines); Singapore; Hsinchu and Taipei (both Taiwan)
<b>EMEA<sup>1</sup></b>	Graz, Linz and Villach (all Austria); Herlev (Denmark); Le Puy-Sainte-Réparate (France); Augsburg, Dresden, Duisburg, Erlangen, Karlsruhe, Langen, Martinsried, Neubiberg near Munich, Regensburg and Warstein (all Germany); Bristol and Reigate (both Great Britain); Cork and Dublin (both Ireland); Netanya (Israel); Padua and Pavia (both Italy); Bucharest (Romania); Lviv (Ukraine)

<sup>1</sup> Europe, Middle East, Africa



# Responsible action, sustainable profitable growth



## Infineon ranks among the 10 percent\* 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 2030**. Emissions are to be cut by 70 percent over the 2019 levels by 2025
- › **External evaluation of the commitment:**
  - MSCI ESG Research rates Infineon with AA for the second consecutive year
  - Included in the Dow Jones Sustainability™ World Index for the fifth time
  - Received "Gold Status" of the rating agency EcoVadis for the fifth time

\*Based on the results of The Sustainability Yearbook 2020 by S&P Global

# For the first time, Infineon sets binding targets for CO<sub>2</sub> reduction



1.

CO<sub>2</sub> 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 CO<sub>2</sub> emissions from electricity consumption of about 86 million people living in Europe<sup>1)</sup>



**Net ecological benefit: CO<sub>2</sub> emissions reduction of more than 54 million tons**



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

2) This figure considers manufacturing, transportation, function cars, flights, materials, chemicals, water/wastewater, direct emissions, energy consumption, waste, etc. and is based on internally collected data and externally available conversion factors. All data relate to the 2019 fiscal year of Infineon excluding Cypress. Manufacturing service providers are not included.

3) This figure is based on internally established criteria, which are explained in the explanatory notes. The figure relates to the calendar year 2018 of Infineon excluding Cypress and considers the following fields of application: automotive, LED, induction cookers, servers, renewable energy (wind, photovoltaic), mobile phone chargers as well as drives. CO<sub>2</sub> savings are calculated on the basis of potential savings of technologies in which semiconductors are used. The CO<sub>2</sub> savings are allocated on the basis of Infineon market share, semiconductor content and lifetime of technologies concerned, based on internal and external experts' estimations. Despite the fact that CO<sub>2</sub> 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



**Andreas Dorfner**  
Application Engineer

"It's exciting to see how a traditional technology like radar can make life easier by turning lights on when someone enters a room."



**Avni Bildhaiya**  
Digital Design Engineer

"Our AURIX™ microcontroller helps save lives and prevent accidents by activating a car's breaks in emergency situations."



**Thomas Indlekofer**  
Quality Manager

"Being part of Infineon means working at the forefront of green technologies like electro-mobility."

At Infineon, more than **47,400** people (as of Nov. 2019) from over **100** countries work together at more than **80** sites around the world toward one mission: to make life **easier**, **safer** and **greener**.

For more information please visit [www.infineon.com/career](http://www.infineon.com/career)

# 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

# Business Continuity Integrated management



\*ISO 27001/14001/45001 worldwide certification scheme; \*\*ISO 22301 certified in Villach and Dresden; \*\*\*ISO 50001 certified at EU sites

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Deutscher Zukunftspreis 2015, laureate Infineon, photographer Ansgar Pudenz, Hamburg (Germany).





Part of your life. Part of tomorrow.