

# Infineon Technologies Austria AG

## Talent Marketing and IPCEI on Microelectronics

Benjamin Bastian  
October 13th 2021



# Presentation Outline

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Infineon at a glance

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Infineon Austria

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Dissemination and spillover activities

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Summary

# Infineon is a globally leading semiconductor player



**top 10**  
semiconductor company

**~46,700**  
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\*\*

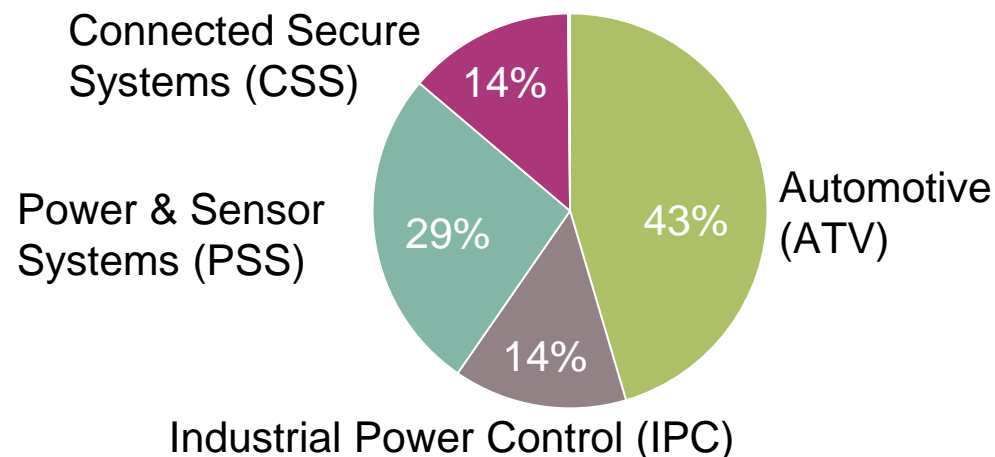
\* as of 30 September 2020

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

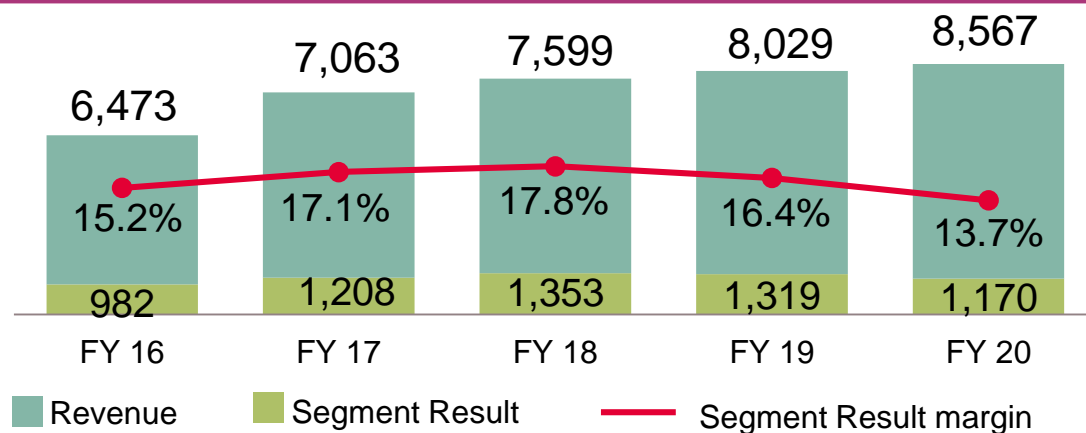


# Infineon at a glance

## Business Segments Revenue\*



## Financials

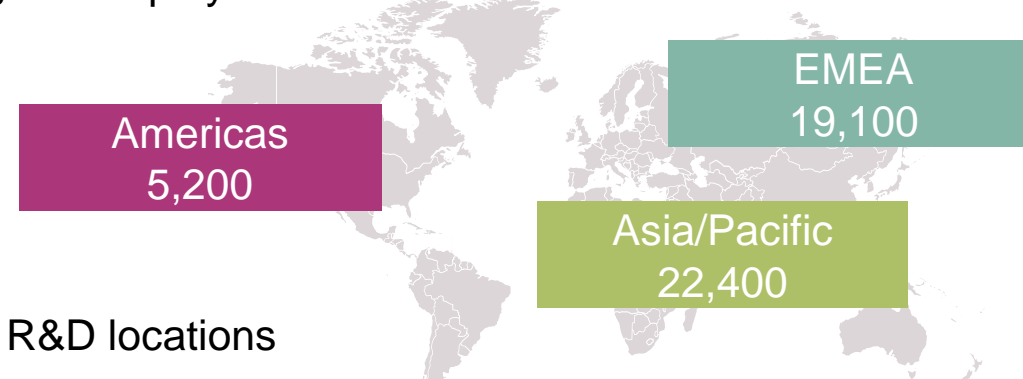


\*2020 Fiscal Year (as of 30 September 2020)

\*\*as of 1 April 2021

## Employees\*

46,700 employees worldwide



60 R&D locations

19 manufacturing locations\*\*

## Market Position

Automotive



# 1

Strategy Analytics,  
April 2021

Power



# 1

Omdia,  
September 2020

Microcontroller



# 3

Omdia,  
March 2021

For further information: [Infineon Annual Report 2020](#)

# Infineon is globally positioned with its network of front-end and back-end manufacturing facilities



19 locations<sup>1</sup>



<sup>1</sup>as of 1 April 2021  
<sup>2</sup>Penang is assigned to the Austin site


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



**EMS partners**


APTIV  
BYD 比亚迪汽车  
DENSO  
HITACHI Inspire the Next  
KEIHIN  
Mando  
MITSUBISHI ELECTRIC  
veoneer  
ZF

BOSCH  
Continental  
HELLA  
HYUNDAI  
LEAR CORPORATION  
Nidec  
Valeo



**ABB**  
BOMBARDIER  
Danfoss  
GOLDWIND  
Midea  
OMRON  
Schneider Electric  
SIEMENS  
SUNGROW  
Vestas


ALSTOM  
中国中车 CRRC  
EATON  
Inovance  
Rockwell Automation  
SEMIKRON innovation + service  
TOSHIBA  
YASKAWA



**Distribution partners**

阿里巴巴 Alibaba.com  
ARTESYN EMBEDDED POWER  
Advanced Energy  
BOEING  
DELL  
ERICSSON  
Goertek  
LITEON  
NOKIA  
SAMSUNG

amazon  
Baidu 百度  
CISCO  
DELTA  
Google  
Hewlett Packard Enterprise  
LG Life's Good  
Makita  
OSRAM  
ZTE



**AdvanIDE**  
BANG & OLUFSEN  
brother  
fitbit.  
GPO  
Lenovo  
IDEMIA augmented identity  
Nintendo  
Microsoft  
THALES  
Raspberry Pi  
Watchdata



# Responsible action, sustainable profitable growth



## Infineon ranks among the 10 percent<sup>1</sup> 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<sup>2</sup>**. Emissions are to be cut by 70 percent over the 2019 calendar year<sup>3</sup> 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 sixth time
  - Received "Gold Status" of the rating agency EcoVadis for the sixth time

<sup>1</sup> Based on the results of The Sustainability Yearbook 2020 by S&P Global in cooperation with RobecoSam

<sup>2</sup> in terms of Infineon's direct and indirect energy- and heat-related emissions (Scope 1 and 2)

<sup>3</sup> including Cypress

For further information: [Infineon Sustainability Report 2020](#)

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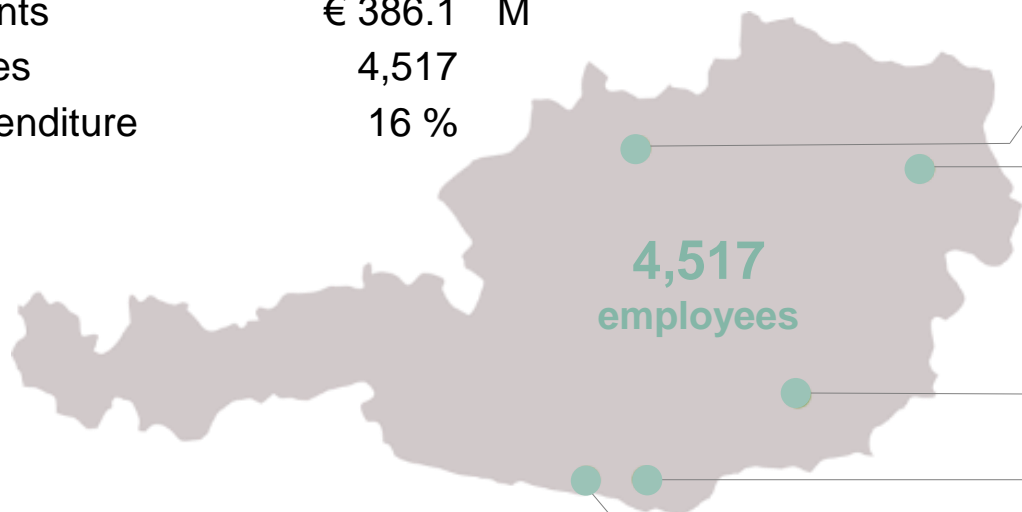
Summary



# Infineon Austria | Company overview

## Fiscal Year 2020 (as of 30.09.2020)

Revenue	€ 3,108.7	M
Earnings before tax	€ 196.2	M
Investments	€ 386.1	M
Employees	4,517	
R&D expenditure in % of revenue	16 %	



Linz (R&D)  
177 employees

Wien (Vertrieb)  
9 employees

Graz (R&D)  
431 employees

Klagenfurt (IT)  
international headquarter function  
192 employees

Villach (R&D, P, G, IT)  
international headquarter function  
3,708 employees  
incl. KAI Kompetenzzentrum Automobil- & Industrieelektronik

## Austrian subsidiaries

Infineon Technologies Linz  
IT Services, Klagenfurt  
KAI, Villach

## Foreign subsidiaries

Infineon Technologies Romania SCS (R&D)  
Infineon Technologies (Kulim) Sdn Bhd, Malaysia (P)



# Extensive competencies

Infineon Austria combines  
**research & development,**  
**production** and **global business**  
**responsibility.**

## The board of Infineon Technologies Austria AG

Dipl.-Ing. Dr. Sabine Herlitschka, MBA  
 CEO and Technology Director

Dipl.-Ing. (FH) Oliver Heinrich  
 CFO

Dr. Thomas Reisinger  
 Operations Director





# Investment in production - Current status 300-millimeter chip factory

## Chip factory

- Shell completed
- "Light on" in the first clean room area
- Installation of the automated transport system started
- Transfer of the production system completed
- New fire station building completed

**Fire department building completed**

## Key Facts

- 8.45 billion chips (FY 2020)
- 23,260 m<sup>2</sup> clean room area
- Approx. 1,800 product types
- Wafer-diameters: 150 mm, 200 mm, 300 mm

**R&D building completed**



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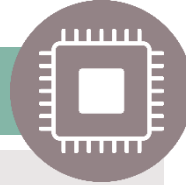
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Summary

# Important Project of Common European Interest (IPCEI) on Microelectronics in a nutshell

## European project



- › ... a key strategic instrument to advance microelectronics technology in Europe.

## Partnership



- › ... 32 companies and research & technology organizations from Austria, France, Germany, Italy, the UK.

## Technology fields











































- › ... six fields: energy-efficient chips, power semiconductors, sensors, advanced optical equipment and compound materials.

## Positive spillover effects



- › ... knowledge generated in IPCEI on Microelectronics will be disseminated via spillover activities.

# IPCEI on Microelectronics: partners and technology fields

Energy Efficient Chips	Power Semiconductors	Smart Sensors	Advanced Optical Equipment	Compound Materials
 CEA-Leti	 3-D Micromac*	 CEA-Leti	 AMTC*	 AZUR Space Solar Power
 Cologne Chip	 AP&S International	 <i>CorTec</i>	 Carl Zeiss	 CEA-Leti
 Globalfoundries	 AT&S	 Elmos Semiconductors		 Integrated Compound Semiconductors
 NXP Semiconductors Austria	 CEA-Leti	 Fondazione Bruno Kessler		 IQE
 <i>RaylCs</i>	 Elmos Semiconductors	 Infineon		 Newport Wafer Fab
 Soitec	 Infineon	 Robert Bosch		 SPTS Technologies
 ST Microelectronics	 Infineon Austria ★	 ST Microelectronics		 OSRAM
 X-FAB	 MURATA	 TDK-Micronas		 SYNRED
	 Robert Bosch	 LYRED		 Soitec
	 SEMIKRON	 X-FAB		 ST Microelectronics
	 ST Microelectronics			
	 X-FAB			

SMEs: in "*italic*"  
Associated partners:\*



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# Dissemination and spillover activities

## Benefits for the European economy and society

The benefits of the project will be of shared beyond the IPCEI consortium

## Contribution to the European economy and society

The knowledge created in the project will be beneficial for organizations across Europe

## Positive spillover effects

The project will create positive spillover effects across the semiconductor value chain and in other sectors



# Dissemination and spillover activities by Infineon Austria

## Talent Program

- › PhD Program
- › Smart Learning Classes
- › Infineon IHUB
- › Girls Days

## Value Chain

- › Industry roadshows
- › Startup Workshops
- › New supply chain collaborations

## Network and Outreach

- › Infineon Ambassador Program
- › Professorship
- › Virtual and inperson conferences

Dissemination activities  
address STEM talent, from  
pupils to PhDs





# Zooming in: PhD Excellence Program

## Quality and performance of PhD students, theses and partners

- › Identification of top research topics
- › State-of-the art industrial PhD program by identifying top candidates, supervisors and universities
- › Internal and external visibility via publications/patents and presentations

## Organization throughout the entire PhD lifecycle

- › The responsibility lies within business lines, such as industrial power electronics
- › PhD bonding and hiring by Human Resources

## Partnerships

- › Excellent relations with partner universities and professors and worldwide technical professional organizations (e.g. IEEE)
- › Networks with internal technical experts (technical leaders, patent agents, etc.)





# Zooming in: Infineon Summer and Winter Schools

- › Industry – academia meeting
- › Top academic lectures & top industry insights
- › Boosting students' career and network
- › Providing participants with a certificate

- › The Summer School 2021 with its topic **Si, SiC and GaN** will take place under the motto **"Mind the wide bandgap! - Explore the bright new world of wide bandgap materials"**.
- › Spend one week packed with **lectures held by world-class professors and top experts from Infineon**.
- › Take this unique opportunity to network, find topics for BSc-, MSc-, or PhD-theses, internships or even a job for after you graduate.

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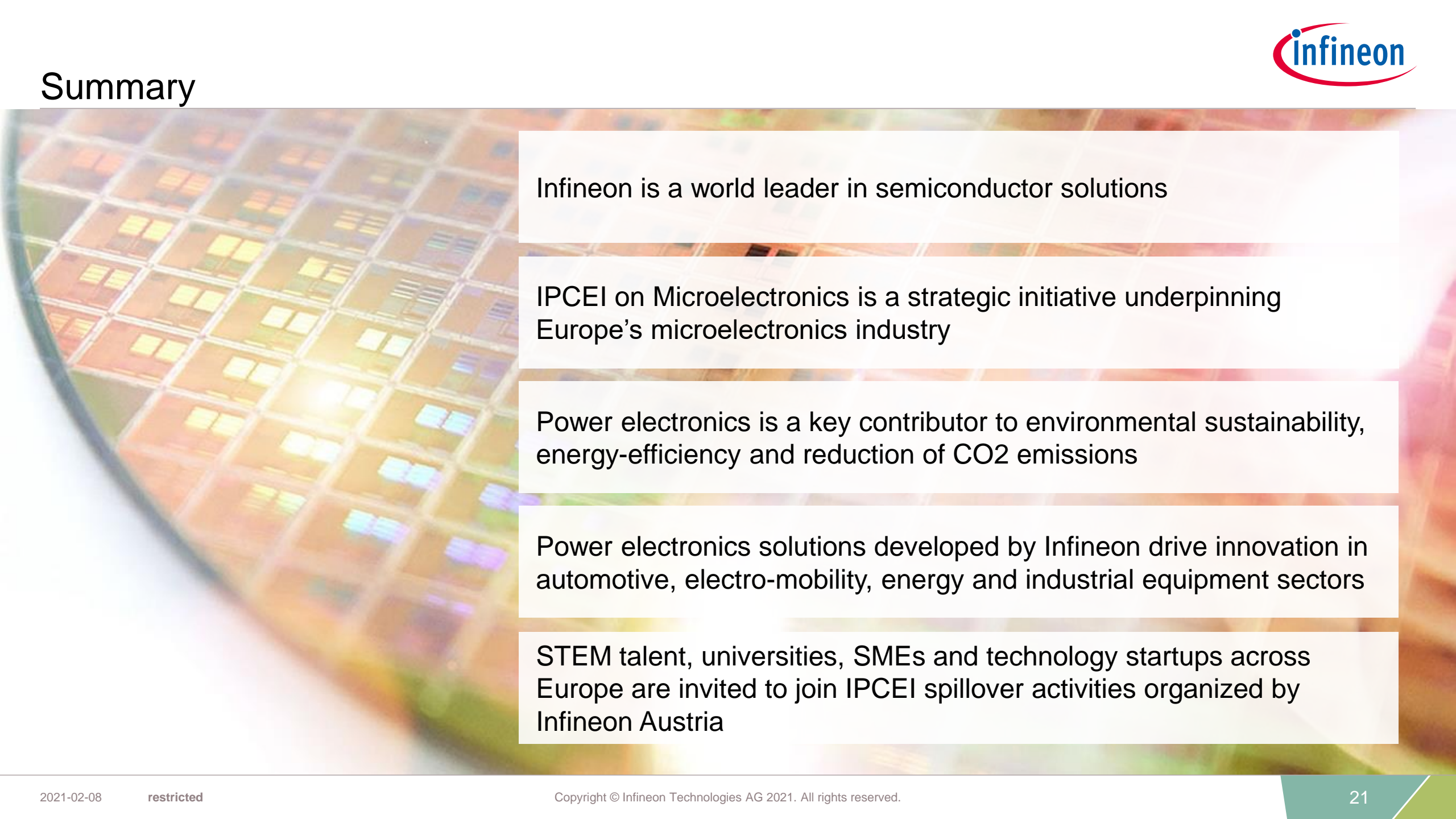
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Summary



# Summary

A close-up, angled view of a silicon microchip die, showing a grid of square dies with various colored patterns (yellow, orange, blue, green) representing different functional blocks or test patterns.

Infineon is a world leader in semiconductor solutions

IPCEI on Microelectronics is a strategic initiative underpinning Europe's microelectronics industry

Power electronics is a key contributor to environmental sustainability, energy-efficiency and reduction of CO2 emissions

Power electronics solutions developed by Infineon drive innovation in automotive, electro-mobility, energy and industrial equipment sectors

STEM talent, universities, SMEs and technology startups across Europe are invited to join IPCEI spillover activities organized by Infineon Austria

# IPCEI on Microelectronics

## Acknowledgement

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in the frame of the  
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on Microelectronics.**

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 **Federal Ministry  
Republic of Austria**  
Climate Action, Environment,  
Energy, Mobility,  
Innovation and Technology

 **Federal Ministry  
Republic of Austria**  
Digital and  
Economic Affairs



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