

First Quarter FY 2021 Quarterly Update

Infineon Technologies AG Investor Relations



Infineon at a glance



Addressing long-term high-growth trends



IoT (edge comp., data center, 5G, sensing, connectivity)



electro-mobility



assisted driving, autonomous driving

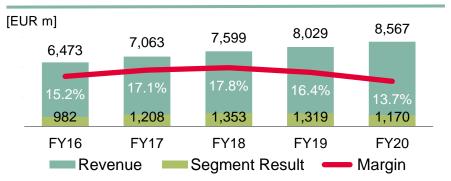


energy efficiency, renewables, EV infrastructure

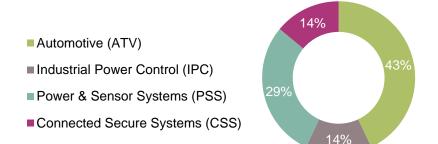


security

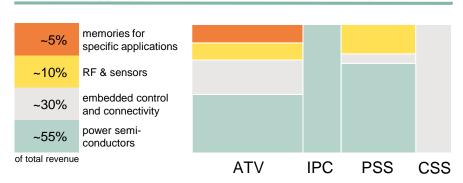
Financials



Illustrative aggregated FY20 revenue by segment



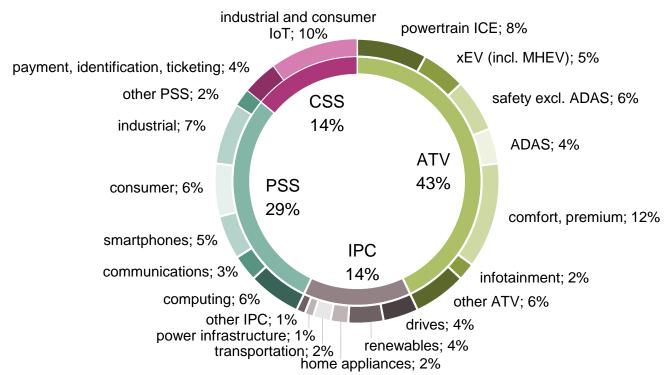
Illustrative aggregated FY20 revenue by product category



Illustrative aggregated FY20 revenue including contribution from Cypress of ~€1,900m from 1 Oct 2019 through 30 Sep 2020

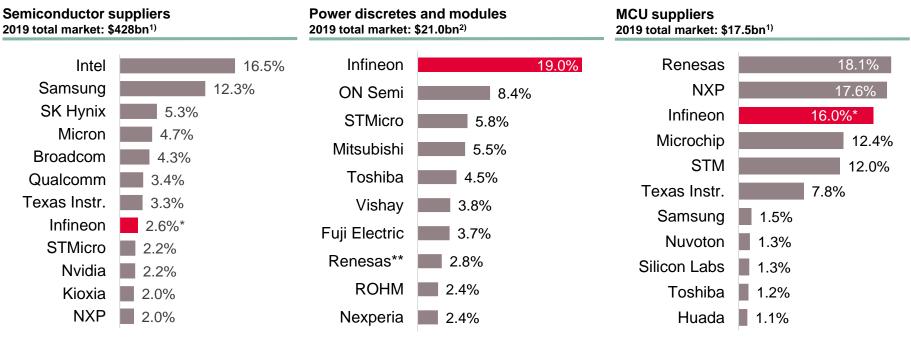


Illustrative aggregated FY20 revenue of ~€9,600m by target application



Infineon is a global top-10 player, #1 in power semiconductors, and ranked #3 in the overall microcontroller market





^{*} including contribution from Cypress

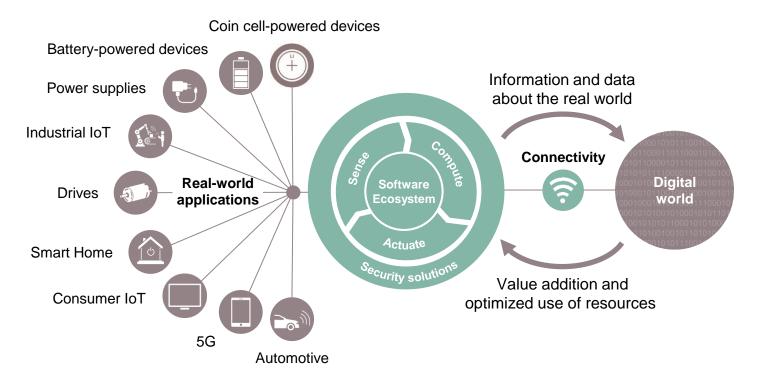
^{**} Renesas acquired Integrated Device Technology in March 2019. Both companies were combined as Renesas in the 2019 ranking.

¹⁾ Based on or includes research from Omdia: Annual 2001-2019 Semiconductor Market Share Competitive Landscaping Tool - Q4 2019 v2. March 2020

Based on or includes research from Omdia: Power Semiconductor Market Share Database – 2020. September 2020
 Results are not an endorsement of Infineon Technologies AG. Any reliance on these results is at the third party's own risk.

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

Outlook for Q2 FY21 and FY21



	Outlook Q2 FY21*	Outlook FY21*			
Revenue	€2.5bn – €2.8bn	~ €10.8bn +/- 5% (prev.: ~ €10.5bn +/- 5%)			
Segment Result Margin	At the mid-point of the revenue guidance: ~16.5%	At the mid-point of the revenue guidance: ~17.5% (prev.: ~16.5%)			
Investments in FY21	~€1.6bn (prev.: €1.4bn – €1.5bn)				
D&A in FY21	€1.5bn – €1.6bn**				

> €800m (prev.: > €700m)

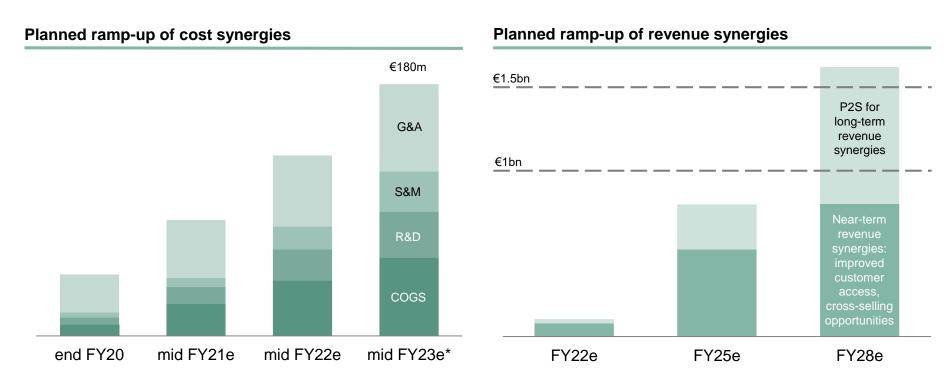
Free cash flow in FY21

^{*} Based on an assumed average exchange rate of \$1.20 for €1.00; previously \$1.15 for €1.00

^{**} Including the effects of the purchase price allocation for Cypress and, to a lesser extent, International Rectifier

Reaping of synergies on track





Expected integration and restructuring costs equivalent to ~1x cost synergies one-off over time.

^{*} Expected cost synergies of €180m p.a. gradually ramping up over approximately three years after closing (16 April 2020).





	Target Operating Model Infineon financial performance to approach targets as Cypress integration progresses
Revenue growth	9%+
Segment Result Margin	19%
Investment-to-sales	13%

Infineon XENSIV™ PAS CO2 sensor enables highly-precise CO₂ measuring and will ramp-up for mass market in mid 2021

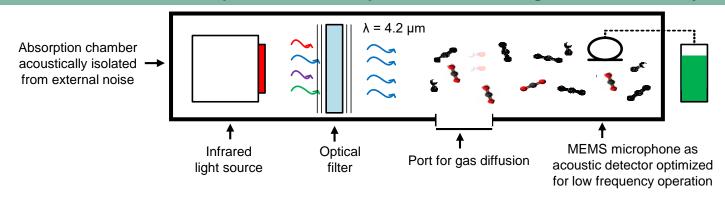


Photoacoustic spectroscopy (PAS) technology based on Infineon's high-sensitivity MEMS microphone

- Infineon XENSIV™ PAS CO2 sensor enables highly-precise, cost-effective and space saving CO₂ measuring
- The technology offers an exceptionally small form factor (14 mm x 13.8 mm x 7.5 mm) that is 4x smaller and 3x lighter (2 grams) than the typical NDIR (non-dispersive infrared) sensor, allowing for more than 75% space savings in customer systems
- The SMD package ensures compatibility with high-volume manufacturing standards, enabling cost-effective, fast assembly and system integration
- Advanced compensation and configuration algorithms enable a plug-&-play sensor and fast design-to-market



All XENSIV™ PAS CO2 sensor components are developed in-house, enabling full control of the system





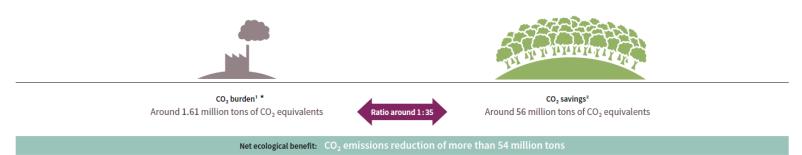
ESG: targets and achievements



Our products and innovations together with an efficient production are key elements to deal with climate change

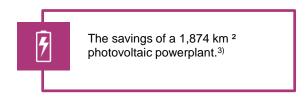


We contribute a CO₂ reduction of more than 54 million tons



^{*} The increase in the burden of CO2 equivalents can mainly be explained by including manufacturing service providers for the first time into the calculation

Our net ecologic CO₂ benefit is equal to...





The average annual electricity consumption of about 90 million people living in Europe.⁴⁾



50,000 fully occupied flights of an Airbus A380 from Munich to Singapore.⁵⁾

For explanatory notes see appendix



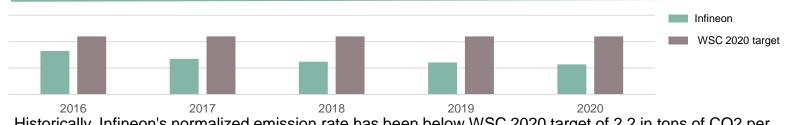


70% CO₂ emissions reduction target in 2025 (Scope 1 and 2 emissions)

- 1. Avoiding direct emissions and further reducing energy consumption
- 2. Purchasing green electricity with guarantees of origin for unavoidable emissions
- 3. Compensate the smallest part by certificates that combine development support and CO₂ abatement

Abatement of Perfluorinated Compounds (PFC's)¹⁾ is one of the most important measures avoiding direct emissions.

Normalized PFC emissions rate in tons of CO2 equivalent per square meter wafer



Historically, Infineon's normalized emission rate has been below WSC 2020 target of 2.2 in tons of CO2 per square wafer

¹⁾ Namely perfluorinated and polyfluorinated carbon compounds, sulfur hexafluoride (SF₆) and nitrogen trifluoride (NF₃)

External recognitions confirm our engagement in contributing to a sustainable society



		Rating/Score	Scale	Date
MSCI 💮	MSCI ESG	AA	CCC to AAA	02/2020
OBSCIOSURE HISIGHT ACTION	CDP	B climate scoring B water scoring	F to A	12/2020
ecovadis BESTATIVARE ELPTY MARAGINETY	Ecovadis 98th percentile "Gold" award		0 to 100	11/2020
Dow Jones Sustainability Indices In collaboration with	Dow Jones Sustainability Index	81 Dow Jones Sustain- ability™ World and Europe Index listing	0 to 100	11/2020
ETHIELE ETHIELE ENGRAPHICAL STATES OF THE PROPERTY OF THE PROP	Ethibel Sustainability Index Excelence Europe"	Index member	-	05/2020
ISS ESG ⊳	ISS ESG Corporate Rating	B- Prime Status	D- to A+	01/2021
FTSE4Good	FTSE4Good Index	Index member	-	07/2020
EURONEXT vigeobiris	Euronext Vigeo Eurozone 120 Index Euronext Vigeo Europe 120 Index	Indices member	-	06/2020
SUSTAINALYTICS	Sustainalytics	77 "Outperformer" level	0 to 100	06/2020



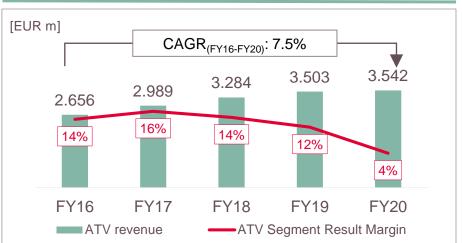
Automotive



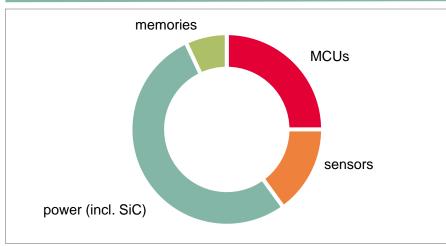
ATV at a glance



ATV revenue and Segment Result Margin



FY20 revenue split by product group



Key customers





























veoneer







Applications

Market Outlook for CY21





- Y-Y recovery with unit growth at mid-teens %
- Unit growth momentum could be limited near-term by shortage in semiconductors but could be compensated in H2 CY21; however, further upside is limited
- > Continued uncertainties related to market development mainly due to COVID-19 pandemic





- > Incentives and CO₂ regulations should keep demand high; especially in Europe
- > Improving consumer sentiment around sustainability theme
- > Steady investments in EV charging infrastructure further lowers reservation towards EVs



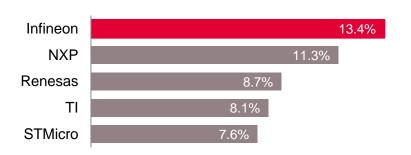


- > Further increase in L1 and L2 penetration expected
- > L2+ shipments still at the inital phase

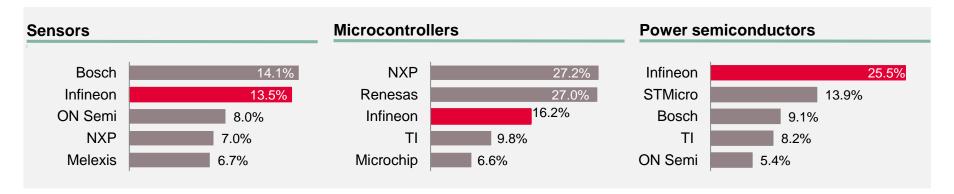
Infineon's top market position is built on system competence based on an industry-leading product portfolio



Automotive semiconductors (2019 total market: \$37.2bn)



- New #1 in the total market post acquisition of Cypress
- > Solid #1 in power despite xEV subsidies cut in China in H2 CY19
- Undisputed #1 in automotive NOR Flash memory
- Fostering #2 in sensors (from 10.4%_{CY12} to 13.5%_{CY19})
- Significant market share gain in microcontroller both organically (strong demand for AURIX™) and via Cypress acquisition



Source: Strategy Analytics: Automotive Semiconductor Vendor Market Shares v2. May 2020. The market shares shown here are the combined market shares of Infineon and Cypress based on their individual figures.

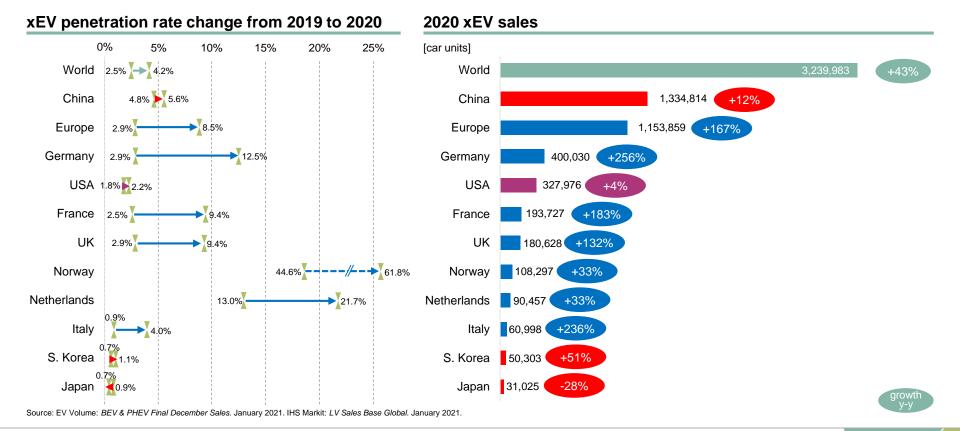


Electro-mobility



Driven by triple-digit y-y growth in most countries, xEV penetration rate tripled from 2019 to 2020 – years earlier than prev. expected





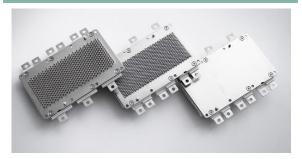
Infineon provides leading-edge power module technology to top-selling Chinese NEV models



Li Auto: LiXiang One



Scalable Infineon HybridPACK™ Drive portfolio



XPeng: P7



Nio: ES8, ES6, EC6



- > > 20 BEV platforms in production with Infineon HybridPACK™ Drive
- > > 1m pieces shipped with an unparalleled quality performance
- Available with Si and SiC chips
- Scalable module portfolio meets costperformance sweet spots between 120 kW and 250 kW
- Optimized versions for 400 V and 800V battery voltage

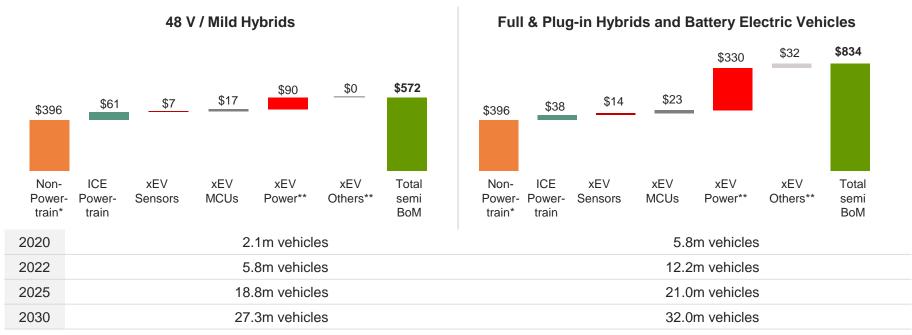
Weltmeister: EX5



The incremental content of power semiconductors in xEV is a significant opportunity for Infineon



2020 average xEV semiconductor content by degree of electrification



^{*} Non-Powertrain: average semiconductor content in body, chassis, safety and infotainment application segments

Source: Infineon; based on or includes content supplied by IHS Markit, Automotive Group: Alternative Propulsion Forecast. July 2020; Strategy Analytics: Automotive Semiconductor Demand Forecast 2018-2027 and Automotive Sensor Demand 2018-2027. July 2020

^{** &}quot;power" includes voltage regulators and ASIC; "others" include opto, small signal discretes, memory



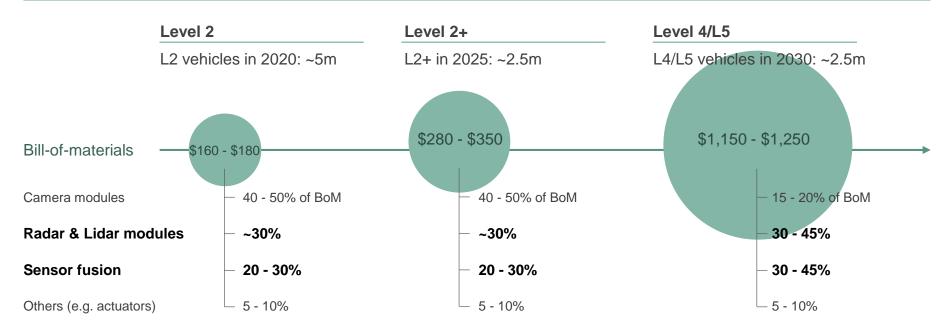
Automated Driving



Radar/Lidar modules and sensor fusion will grab the lion's share of semiconductor BoM in ADAS/AD-equipped cars



Incremental average semiconductor content per car by level of automation at the given years

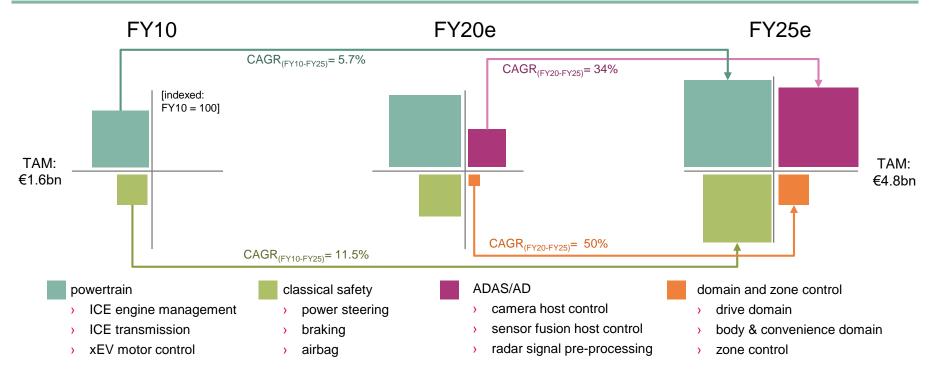


Source: Strategy Analytics: Automated Driving Semiconductor Market Estimate. August 2020; Infineon BoM contains all type of semiconductors (e.g. radar modules include μ C); sensor fusion does not include memory. BoM are projected figures for the respective time frame.

The Infineon AURIX™ µC family has become the first-choice automotive architecture for high-growth and safety-critical applications



Infineon AURIX™ revenue development over time



Source: Infineon; Strategy Analytics: Automotive Semiconductor Demand Forecast. February 2020. Covering Infineon target markets; excl. body, comfort, infotainment.

Strong microcontroller footprint in next-generation high-volume platforms



OEM platform #1:

- 14 MCUs (+ NOR Flash + Wi-Fi)

start of production: end of CY20

AURIX™ TC39x

AURIX™ TC39x

AURIX™ TC39x

AD fusion

high-end

Central AD

AURIX™ TC38x

Engine control

Drivetrain control

AURIX™ TC23x

Transmission control module

AURIX™ TC27x

shifter module

AURIX™ TC23x

AURIX™ TC23x

AURIX™ TC39x

AURIX™ TC23x

AURIX™ TC27x

Automatic sway Secure gateway bar AURIX™ TC23x AURIX™ TC39x

Map driver AURIX™ TC39x

Instrument cluster

NOR Flash S26KS512

Infotainment module

89359 (Wi-Fi / Bluetooth)

Central AD module

NOR Flash S70FL01G S25FL512 S25FS512

OEM platform #2:

AURIX™ TC38x

Diesel engine

AURIX™ TC39x

AURIX™ TC38x

Inverter PHFV

AURIX™ TC38x

Door module

FR MB91520

Braking

AURIX™ TC38x

AURIX™ TC37x

AURIX™ TC36x

AURIX™ TC38x

Alarm system module

FR MB91F520

20 MCUs

start of production: CY22

AD fusion

AURIX™ TC39x

AURIX™ TC39x

AURIX™ TC37x

AURIX™ TC39x

Digital instrument

Traveo I S6J332

cluster

Radar domain

AD fusion

high-end

FCR4 MB9DF125

8" rear-seat entertainment

TrueTouch TMA78

Cluster TFT

module

Front camera 10" navigation module

TrueTouch TMA1036

Climate. gearshift MMI

FR CY91xxx

Head light module

FR MB91F525

Cypress heritage



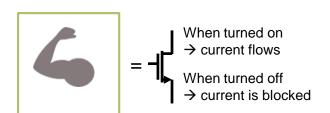
Infineon's Power Strategy







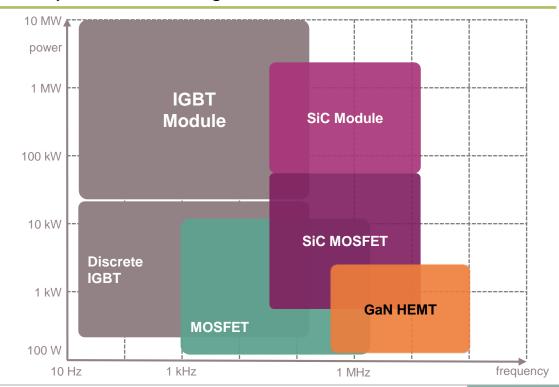
What is a power switch?



What counts?

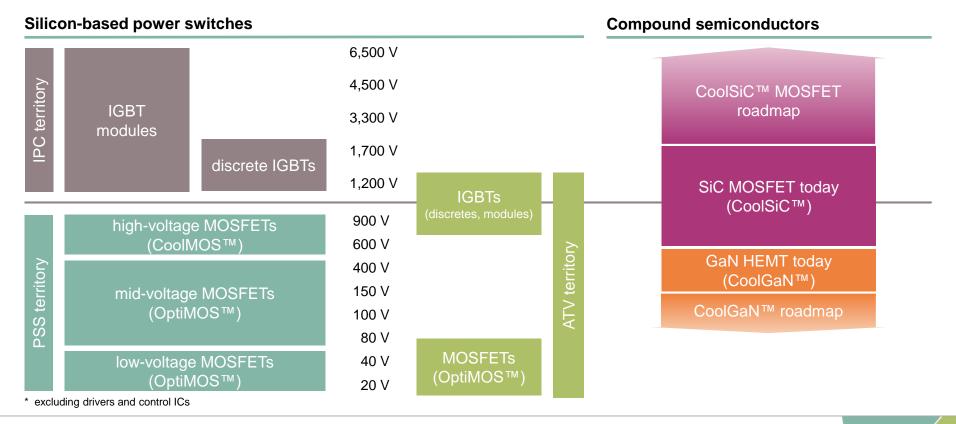
- Losses in on-state (R_{(DS)on})
- Heat dissipation
- Max. switching frequency
- Die size
- Package size (form factor)

How are power switches categorized?



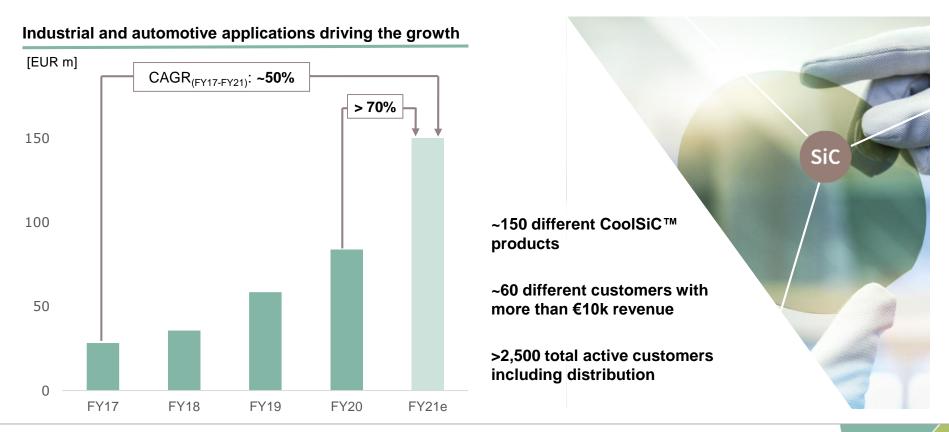
Infineon's discrete power portfolio* is basically separated by voltage classes





SiC is switching gears: industrial still holds the biggest share, but about half of the incremental revenue contributed by automotive





Strong CoolSiC™ portfolio expansion: by packages and by voltages

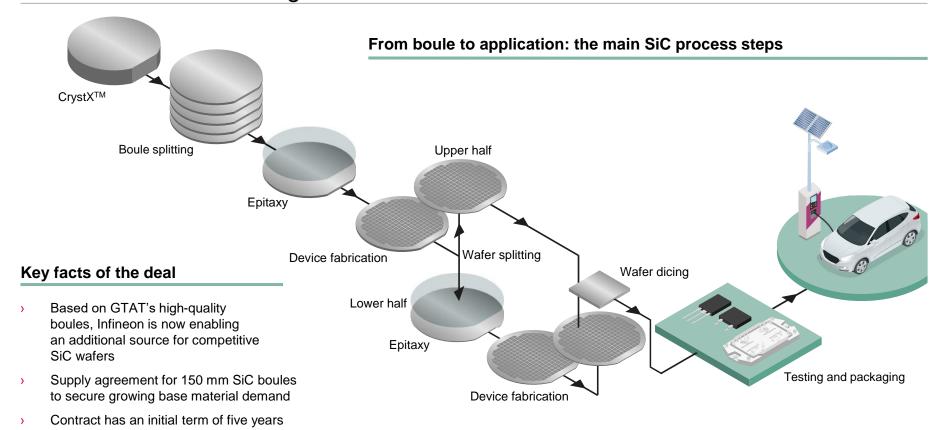


Broadest and best-in-class SiC portfolio

	Industrial					Automotive grade				
package options	CoolSiC™ Diode	CoolSiC™ Hybrid		CoolSiC™ MOSFET		CoolSiC™ Diode			SiC™ SFET	
Je opt.	Discrete	Discrete	Module	Discrete	IPM	Module	Discrete	Discrete	Discrete	Module
voltages	F									
600 V										
650 V								Expected in 2021		
1200 V										Exp. in 2021
1700 V										
Continuous expansion of portfolio										

Infineon expands supply base for SiC boules with GT Advanced Technologies

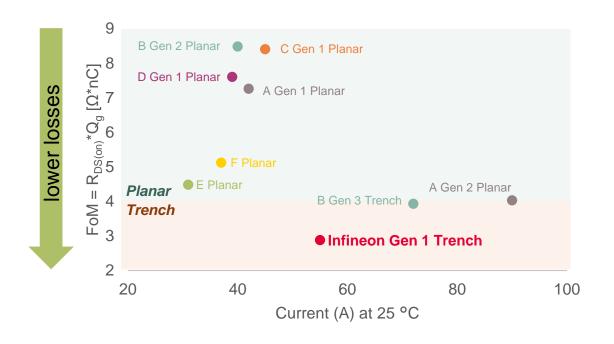




Second generation (2nd Gen.) CoolSiC[™] Trench MOSFET will increase the addressable market



1st Gen. with lowest losses is the leading technology today



Source: SystemPlus Consulting: SiC Transistor Comparison 2020. November 2020

2nd Gen. will expand the lead

- 2nd Gen. CoolSiC™ Trench MOSFET is in advanced development phase
- Enhanced power handling capabilityby 25% 30%
- Enhanced safe operating area without compromising quality
- Enabling SiC in further high volume applications

2nd Gen. CoolSiC[™] Trench MOSFET will significantly enlarge the market size for SiC MOSFETs



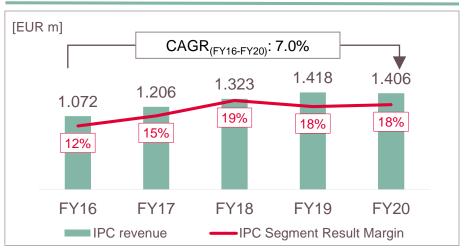
Industrial Power Control



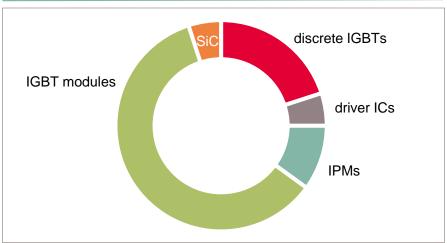
IPC at a glance



IPC revenue and Segment Result Margin



FY20 revenue split by product group



Key customers

























Applications % of FY20 segment revenue)

Market Outlook for CY21



~30%



Industrial Drives expected to recover in low-single-digits with some upside potential from pent-up demand



~24%



- Wind: installations forecasted to increase to all-time-high
- > PV: installations to stabilize on high level



~16%



> Catch-up of delayed purchases and energy efficiency incentive programs will drive growth



~13%



 Diminished COVID-related travel activities caused pushed-out of construction of passenger trains and e-Busses



~9%



- Growing demand in EV charging infrastructure, Industrial UPS and energy storage systems
- Delays in Transmission & Distribution projects



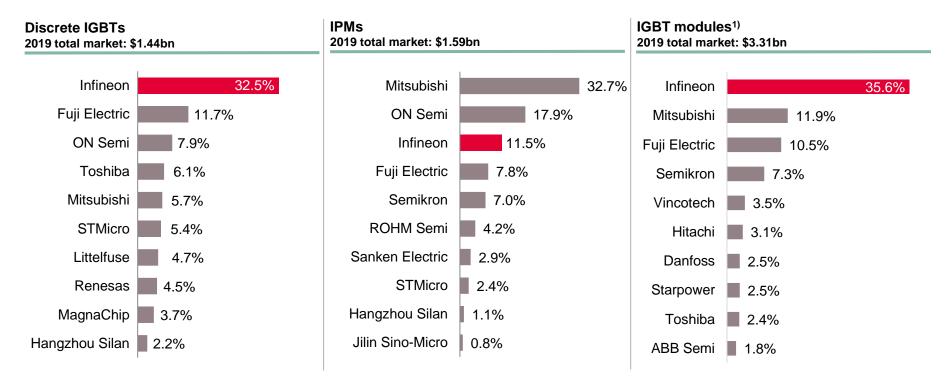
8%



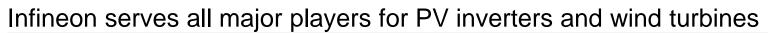
Growth driven by general market recovery

Clear leader in discrete IGBTs and IGBT modules: fostering position in IPMs





¹⁾ Including standard (non-integrated) IGBT modules and power integrated modules (PIMs) / converter inverter brake (CIB) modules Source: Based on or includes research from Omdia: Power Semiconductor Market Share Database 2020. September 2020





IPC revenue in renewables

[EUR m] CAGR_(FY20-FY25): ~8-10% IEA expects twice as much capacity 337 additions for wind 269 259 and solar than 232 229 coal, gas and nuclear power taken together for the period $2020 - 2025^{3}$ FY16 FY17 FY18 FY19 FY20 FY25e

Infineon is powering all leading renewable energy players*

PV inverter ¹⁾		Wind ²⁾	
1 Huawei	✓	1 Vestas	✓
2 Sungrow	√	2 SGRE	✓
3 SMA	√	3 GE	✓
4 Power Electr.	✓	4 Goldwind	✓
5 Solar Edge	✓	5 Enercon	✓
6 ABB	✓	6 Nordex Group	✓
7 TMEIC	✓	7 Envision	\checkmark
8 Sineng Electric	✓	8 Mingyang	\checkmark
9 Growatt	√	9 United Power	✓
10 Ginlong	√	10 Suzlon	✓

Source: 1) by shipped capacity in MW: based on or includes content supplied by IHS Markit, Technology Group: PV Inverter Market Tracker - Q3 2020. October 2020.

^{*} Infineon is serving the top-10 of each category but not necessarily as a sole supplier.

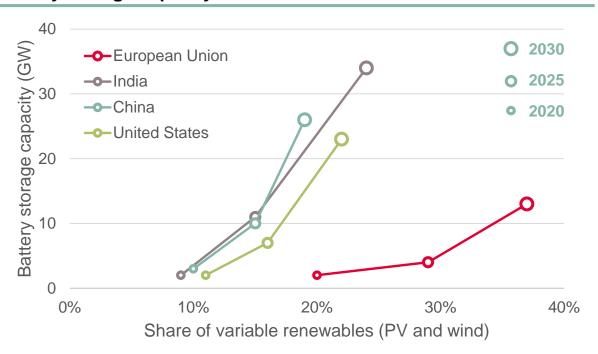
²⁾ WoodmacKenzie: Wind Turbine OEM Market Share. November 2020.

³⁾ International Energy Agency: World Energy Outlook 2020, p. 224.

Energy storage is essential to further deploy decentral and renewable energy generation



Battery storage capacity and share of variable renewables¹⁾



Source: 1) International Energy Agency: World Energy Outlook 2020, p. 248; variable renewables consist of solar and wind energy. 2) Infineon estimate

Key drivers

- **Decentralization** of power generation
- **Peak shaving** of energy generation and energy consumption
- **Limited capacity** and flexibility of today's grids
- Reduction of standby cost of fossil power plants

~€3,200 of power semiconductor content per MW of installed energy storage capacity²⁾

What comes next?

Mid- to long-term structural growth opportunities



Core



new material



EV charging



collaborative robots

Adjacent



solar pumps



energy storage



eDelivery vehicles

New area



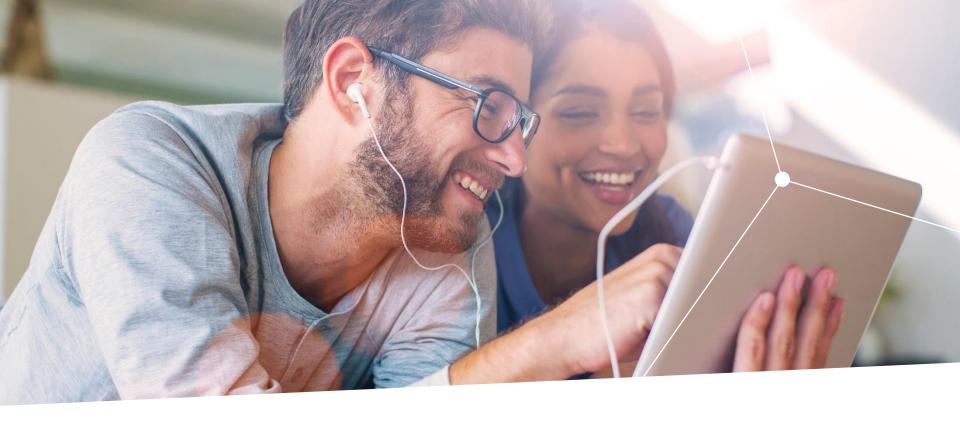
fuel cell



eMarine



eAviation



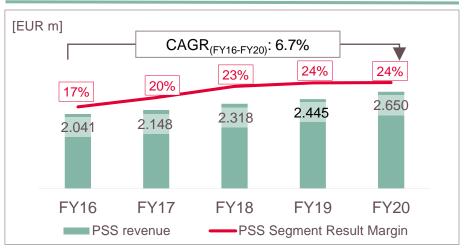
Power & Sensor Systems



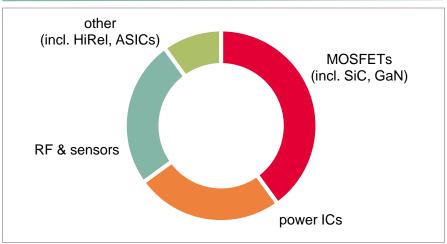
PSS at a glance



PSS revenue and Segment Result Margin



FY20 revenue split by product group



Key customers























ZTE

CISCO

Market outlook for PSS division's target applications



Applications of FY20 segment revenue)

Market Outlook for CY21



~20%



- Acceleration towards cloud computing to continue
- > Pandemic-driven stay-at-home and WFH effects continue to favor notebook sales



~9%



- In general, long-term drivers due to 5G still intact
- However, trade tensions generate some uncertainty around speed of roll-out in China and other regions



~19%



> Strong rebound expected driven mainly by economic recovery and migration towards 5G phones



~20%



- Catch-up of delayed purchases could lead to market pick-up
- However, new lock-downs could dampen consumer confidence
- Game consoles clear beneficiaries from stay-at-home



~23%



- Automotive and other industrial segments show signs of recovery
- Battery-powered tools continue to show strong momentum

^{*} does not sum up to 100% due to other applications not shown here

PSS's growth is built on many applications from different sectors in power and non-power



Computing



- data center
- enterprise server
- > PC, notebook
- peripherals
- chargers and adapters

Communications



- base stations
- backhaul cellular infrastructure
- 5G massive MIMO
- telecommunication servers

Smartphones



- smartphones
- mobile devices
- wearables
- USB Type-C, USB Type-C PD

Consumer



- eBikes, eScooter
- multicopter
- LSEV
- gaming
- > TV sets
- smart home

Industrial



- power supplies
- EV on-board charger
- charging infrastructure
- PV inverter
- power tools
- lighting
- Industry 4.0
- space

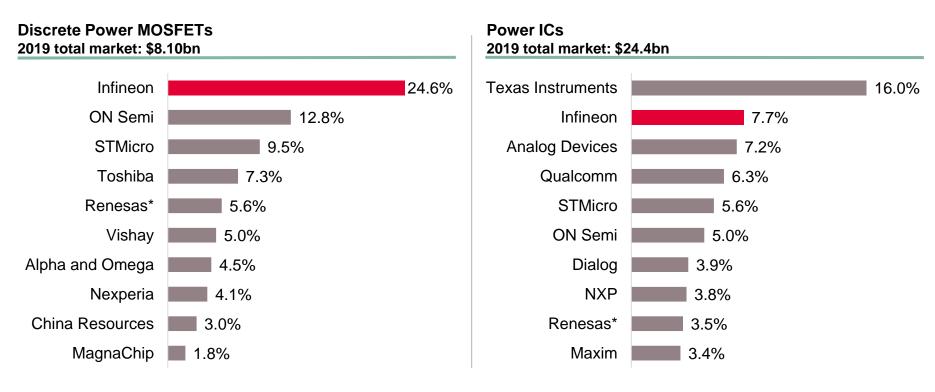


PSS - Power



Infineon is the clear leader in MOSFETs; growth potential in power ICs





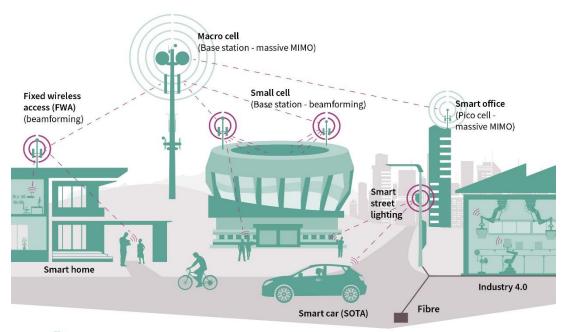
^{*} Renesas acquired Integrated Device Technology in March 2019. Both companies were combined as Renesas in 2019.

Discrete Power MOSFET market includes automotive MOSFETs, protected MOSFETs, SiC MOSFETs and GaN power transistors. Power IC market includes automotive power ICs. Source: Based on or includes research from Omdia: Power Semiconductor Market Share Database 2020. September 2020.

Transition from 3G/4G to 5G drives demand in power semis for antennas and power supplies



Smart and connected - the communication of tomorrow with 5G



- Base station (Macro cell, massive MIMO) < 6GHz
- Small Cell (Beamforming) > 6 GHz

SOTA (Software over the air)

- driver #1: massive growth of data and computing power
- driver #2: higher number of base stations due to dense network
- driver #3: ~4x higher power semi content per radio board: from ~\$25 for MIMO antenna to ~\$100 for massive MIMO antenna array
- driver #4: fog computing data
 center as a completely new market

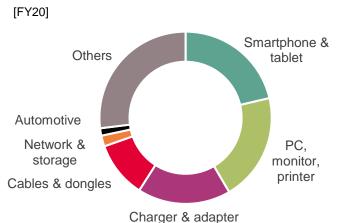
Infineon is well positioned to benefit from the conversion to the de-facto standard USB Type-C



USB Type-C becomes de-facto interface form factor

DisplayPort Thunderbolt HDMI USB Micro-B USB Type-A 4.5 mm USB Type-B USB Type-B USB Type-B USB Type-B

Infineon USB business split by appl.



- Infineon USB business dominated by USB Type-C and USB Type-C PD
- USB Type-C PD in automotive is a nascent segment with good growth opportunities
- USB Type-C PD offers revenue synergies for Infineon in AC-DC chargers and adapters

What comes next?

Mid- to long-term structural growth opportunities



Core



5G infrastructure



hyperscale AI data center



new material

Adjacent



smart building



wireless charging



on-board charger

New area



smart speaker



health & lifestyle



environmental sensor solutions



PSS – RF and Sensing



Main applications addressed by PSS sensors portfolio



MEMS microphone



Best audio performance



Low power consumption

3D radar (24/60 GHz)



Ultra-low power consumption



Presence detection

3D ToF image sensor



Best price / performance



VR/AR, biometrics

Environmental



High precision and small form factor



Measure CO₂

Main applications

- Smartphone
- True wireless stereo headsets and earbuds
- Smart speaker
- Tablet

- Automotive
- Smart home
- TV
- Security camera
- Smart building

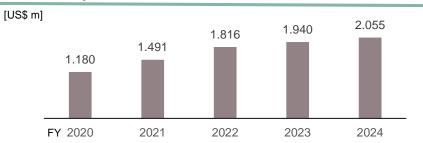
- Smartphone: worldfacing and user-facing
- Robotics
- Automotive in-cabin sensing
- Payment terminals

- Heating, ventilation, air conditioning (HVAC)
- Air purifier
- Smart thermostat
- CO₂/virus detection

Sensor markets targeted by PSS

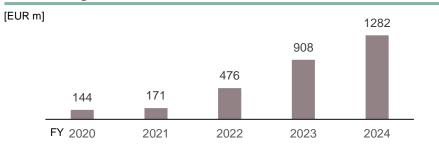


MEMS microphone market



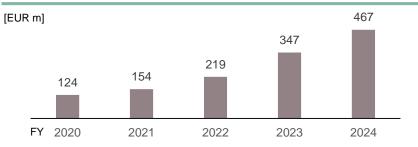
Source: Infineon estimates

3D ToF image sensor market



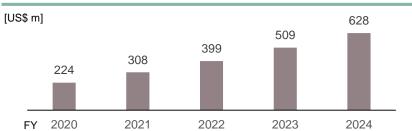
Source: Infineon estimates

Radar IC market (24 GHz and 60 GHz only)



Source: Infineon estimates

Environmental sensor market*



* Infineon is addressing smart building, smart home, smart appliances, consumer IoT devices and automotive.

Source: Infineon estimates

Different market dynamics of selected PSS sensors



MEMS microphone

- New headset features like active noise cancellation or transparent hearing require 4 to 9 microphones. Traditional wired headsets had only one microphone.
- Global smartphone MEMS microphone market rebounded in Q3 CY20. Upward track expected to maintain in coming quarters.

3D ToF image sensor

3D ToF image sensor enables newest generation of vacuum cleaning robots like Xiaomi Mijia 1T smart vacuum cleaner with "smart eyes" capabilities to accurately realize and avoid obstacles in all three dimensions.

Radar ICs (24 GHz and 60 GHz only)

- Home appliance will drive 60 GHz radar growth in the consumer market (thermostats, speakers a.o.)
- 60 GHz radar successfully launched as replacement for passive-infrared approach getting traction in the market
- New applications like In-cabin-monitoring systems and smart trunk opener will fuel strong growth in auto segment

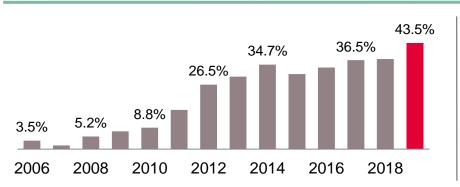
Environmental sensors

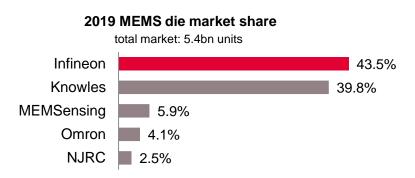
- Market entry in CO₂ sensor market with first revenues expected in FY21.
- XENSIV™ PAS CO2 sensors support reducing the risk of virus transmission by enabling better and clean indoor air quality.

Sweeping success of our XENSIV™ MEMS microphones driven by unparalleled audio characteristics catapulted Infineon to new #1



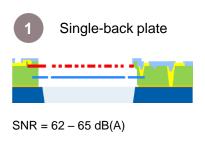
Infineon's market share development in MEMS microphones (by units)

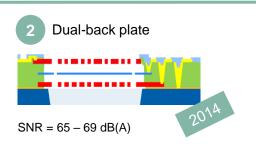


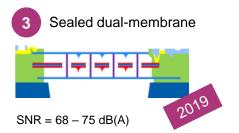


Based on or includes research from Omdia: MEMS Microphones Dice Market Shares 2020. October 2020

Technological progression of Infineon XENSIV™ MEMS microphones







New 3D ToF image sensor with improved long range to be launched in Q3 FY21



- Enables functionalities like real-time augmented reality, long range scanning, small object reconstruction, fast low-power autofocus and picture segmentation.
- Serves applications like gaming, virtual e-Commerce, 3D online education, facial recognition.

Adaptive resolution depending on distance



Characteristics:

- Long range up to 10 meters
- High resolution up to 40k depth points
- Lowest power, reduction of 40% at the imager
- Accurate and robust depth data under all light conditions
- Smallest 3D camera; 35% smaller footprint
- Lowest system BoM due to high integrated CMOS image sensor and Infineon VCSEL driver component



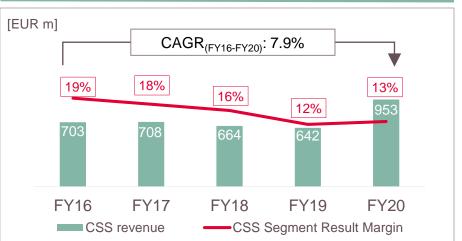
Connected Secure Systems



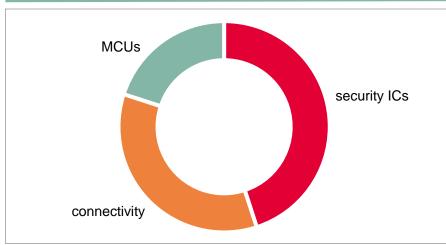
CSS at a glance



CSS revenue and Segment Result Margin



FY20 revenue split by product group



Key customers



BANG & OLUFSEN



























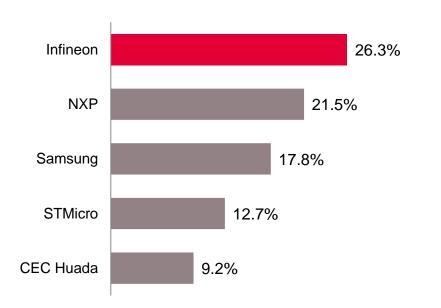


	lications	Market Outlook for CY21			
(% of FY20 segment revenue)					
Payment, ID, Ticketing – ~30%	Payment 1)))	High demand for contactless payment solutions expected to continue			
	Identification	Prolonged restrictions on international travel expected to further affect especially the issuance of passports			
Industrial and Consumer IoT ~70% Wearables	Smart Home	> Return to growth, however lower level than previously expected			
		New features and technologies enter production and proliferate across models			
		 Increasing penetration rate of eSIM Automotive driven by increasing connectivity requirements Connectivity technologies to improve in-car user experience 			
	Gaming	Market growth driven by launch of new console models			
	Wearables	> New product launches expected to boost demand			
	3	> Further implementation of low-power processing and connectivity technologies across new models			

Infineon remains top player in its target markets: security ICs, Wi-Fi standalone ICs



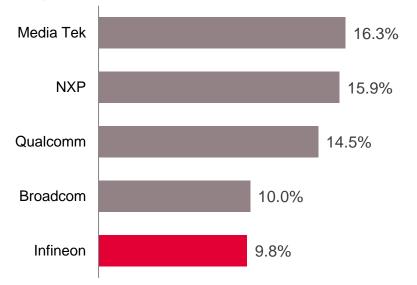
Security ICs (excl. NFC controller; excl. NFC eSE) 2019 total market: \$2.8bn



ABI Research: Smart Card and Embedded Security IC Technologies. October 2020

Wi-Fi standalone ICs 2019 total market: 978m units

Infineon is focusing on wearables and IoT but not addressing routers, PCs, notebooks, tablets.



ABI Research: Wireless Connectivity Technology Segmentation and Addressable Markets – Q3 2020 Update. July 2020

Connected Secure Systems – comprehensive systems for a secure, connected world



Positioned to benefit from major growth trends

- Security, connectivity and compute are the essential ingredients for IoT
- Digitalization unlocks new opportunities
- CSS supports other divisions with the integration of security, connectivity, and compute

Top player in key markets

1 in security ICs^{1,2}

1 in payment¹

5 in Wi-Fi standalone ICs3

#3 in Bluetooth Standalone3

- 1) ABI Research: Smart Card and Embedded Security IC Technologies, October 2020,
- 2) excl. NFC Controllers; excl. NFC embedded Secure Element
- ABI Research: Wireless Connectivity Technology Segmentation and Addressable Markets. November 2019.

Payment, identification, ticketing



- Payment (credit and debit cards)
- Electronic passports & ID cards
- Transport tickets
- Access cards

Industrial and consumer IoT



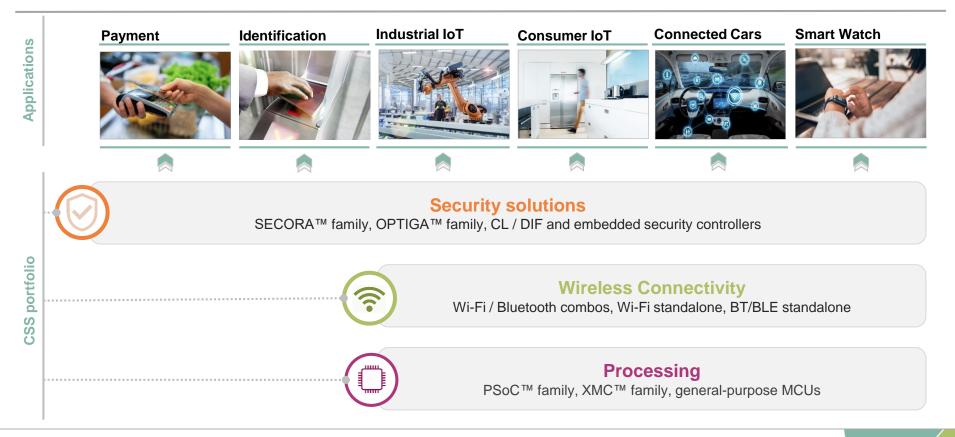
- Industrial application
- Infrastructure
- Mobility and connected cars
- Home appliances



- Consumer electronics, e.g. games consoles, audio entertainment
- Notebooks, PCs and servers
- Smartphones and accessories

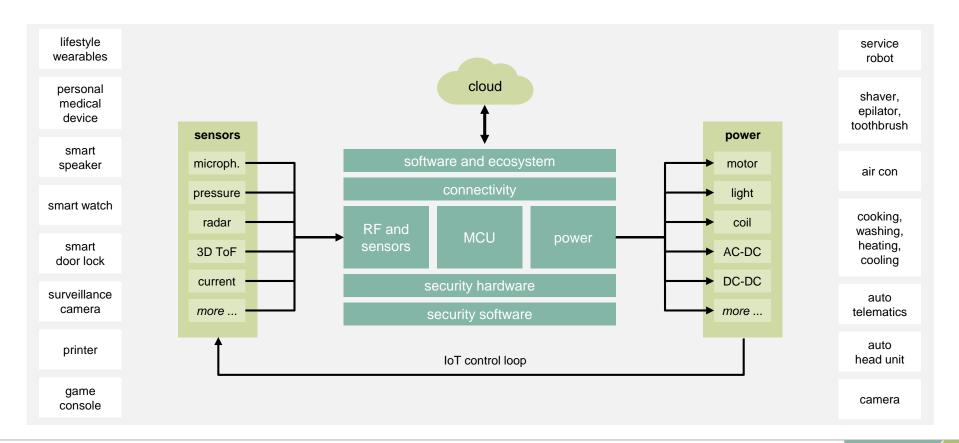
CSS owns the key ingredients to address the high-growth IoT market: security solutions, wireless connectivity and processing





Infineon offers the entire system for IoT – unlocking new markets and applications







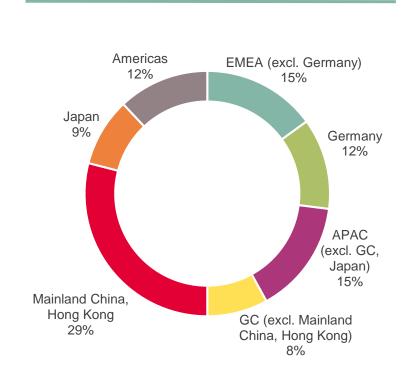
Selected financial figures



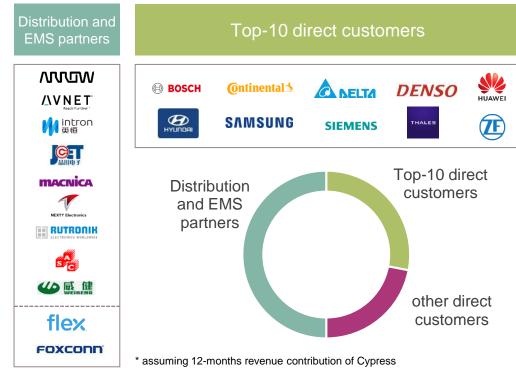
Strong presence in all regions; well-balanced customer portfolio; no customer represents more than 10% of total sales



FY20 revenue by region



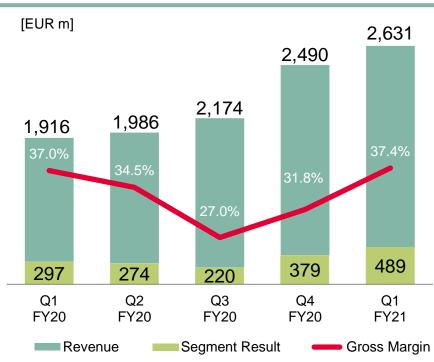
Revenue by sales channel*



Group financial performance



Revenue* and gross margin development



- > Strong start into FY21
- Demand in several areas, most notably microcontrollers and IoT products, is outstripping supply
- Covid and trade tensions remain significant uncertainties
- Accelerating adoption rates for structural drivers like electro-mobility and IoT
- Integration of Cypress is progressing

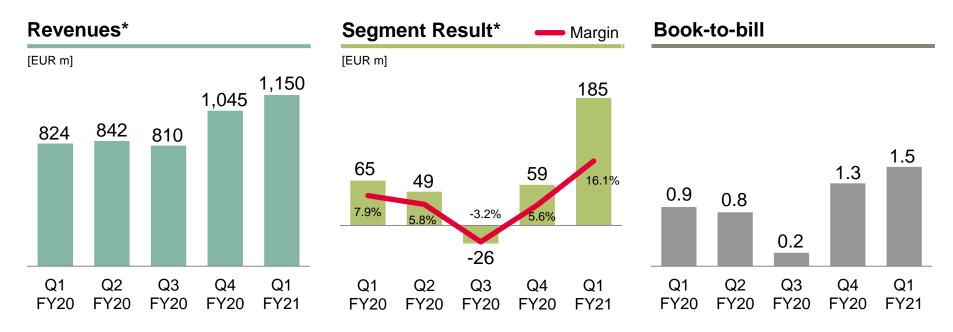
Book-to-bill**



^{*} Consolidation of Cypress revenue as of 16 April 2020. ** For definition see notes

Automotive (ATV)





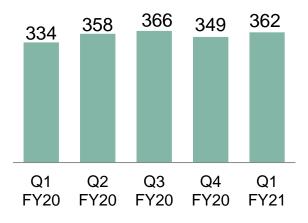
- Global car markets continue to rebound, particular strength in components for electric vehicles
- > Current semiconductor shortage: foundry capacity, especially for microcontrollers is a limiting factor
- > Significant reduction in underutilization charges and non-recurring effects drive strong margin improvement

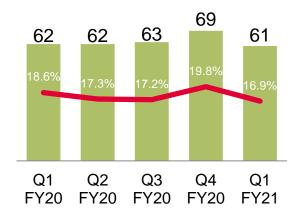
^{*} With effect from 1 Oct 2020, we transitioned a group of industrial microcontrollers with an annual sales volume of a low-double-digit million Euros from ATV to CSS. Historical figures have been retroactively adjusted.

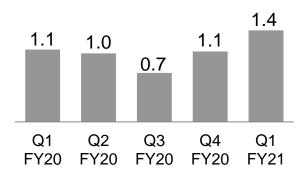
Industrial Power Control (IPC)



Revenues Segment Result — Margin Book-to-bill





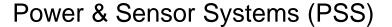


- Renewables positive momentum continues
- > Home appliances remain strong, driven by pent-up demand and energy-saving regulations
- > Industrial drives moved sideways, transportation continues to be hampered by low travel activities

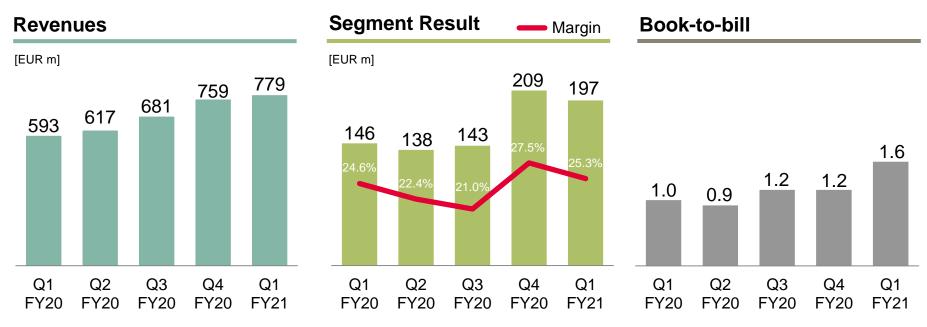
[EUR m]

> Segment Result Margin decline reflects adverse currency movements and unfavorable product mix

[EUR m]



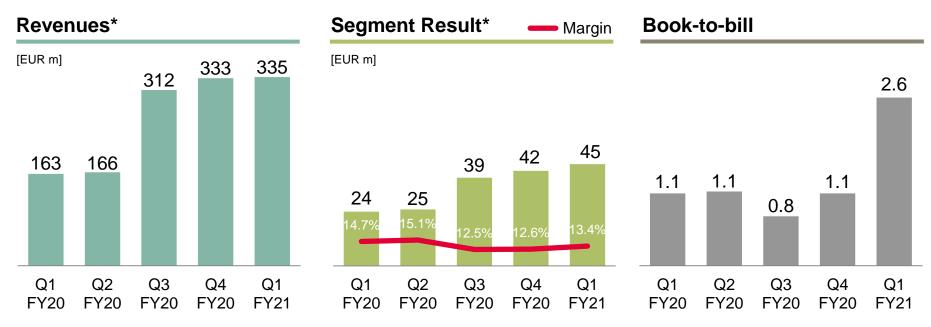




- > Remote workforce and stay-at-home regulations continue to boost demand
- > Strong demand for low-voltage switches (power tools) and MEMS microphones (smartphones & accessories)
- Demand for the server components remains flat, but at high levels

Connected Secure Systems (CSS)



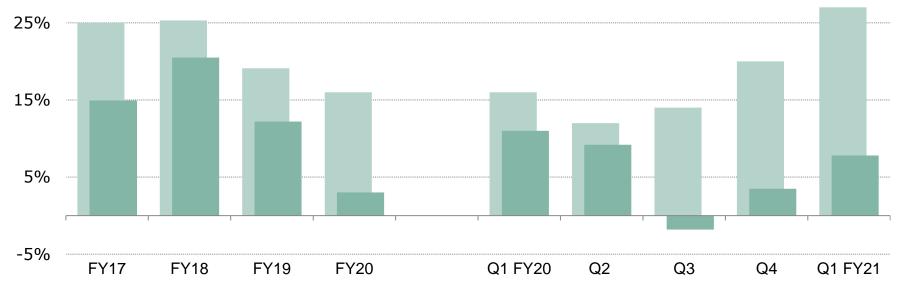


- > CSS affected by supply constraints on the foundry side
- > Vibrant demand especially for general-purpose microcontrollers and Wi-Fi components
- Secular trend towards connected devices continues to be unabated

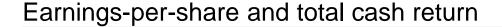
^{*} With effect from 1 Oct 2020, we transitioned a group of industrial microcontrollers with an annual sales volume of a low-double-digit million Euros from ATV to CSS. Historical figures have been retroactively adjusted.

RoCE and adjusted RoCE



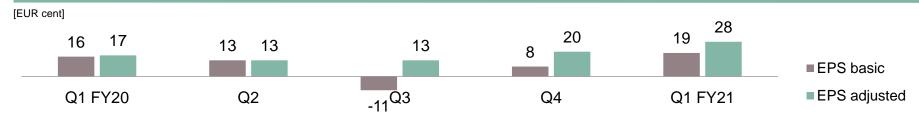


■ Adjusted RoCE (excl. effects from International Rectifier and Cypress acquisition, Deferred Tax Effects, RF Power sale) ■ RoCE

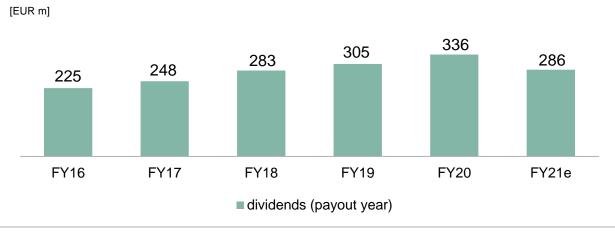




Development of earnings-per-share (EPS) from continuing operations



Total cash return to shareholders

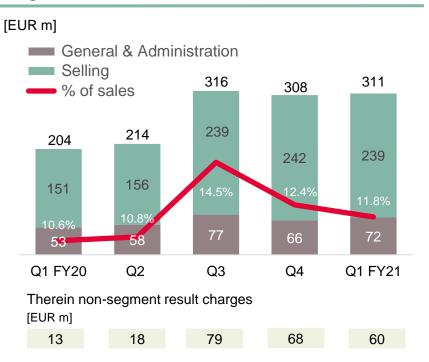


- › Dividend proposal for FY20: €0.22 per share
- > Proposed total dividend payout of €286m for FY20

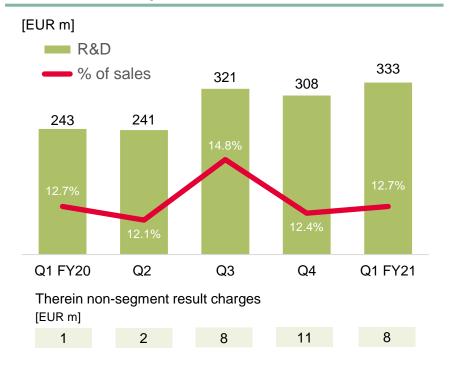
Opex development



Selling, General & Administration

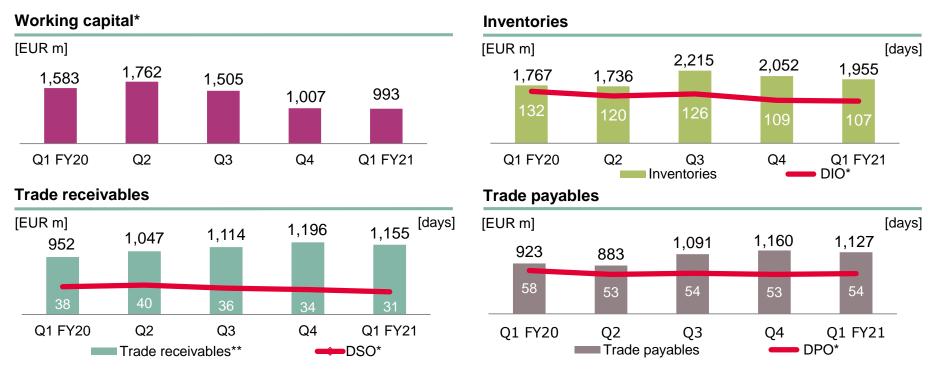


Research & Development



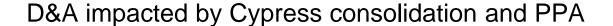
Trade working capital components



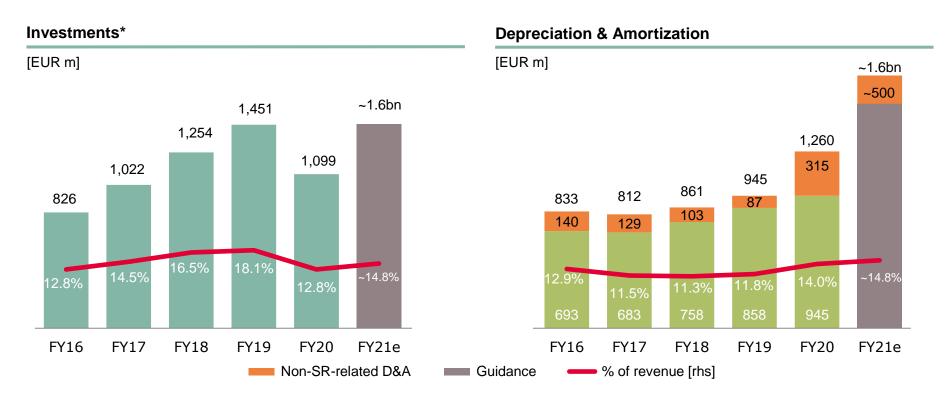


^{*} For definition please see page "Notes".

^{**} Along with the integration of Cypress refund liabilities to customers are presented under "other current liabilities" instead of "trade receivables". Prior quarters' figures were adjusted accordingly for better comparability.



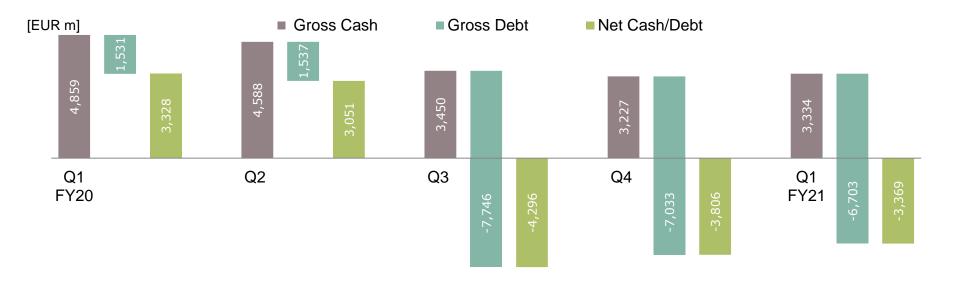




^{*} For definition please see page "Notes".

Liquidity development

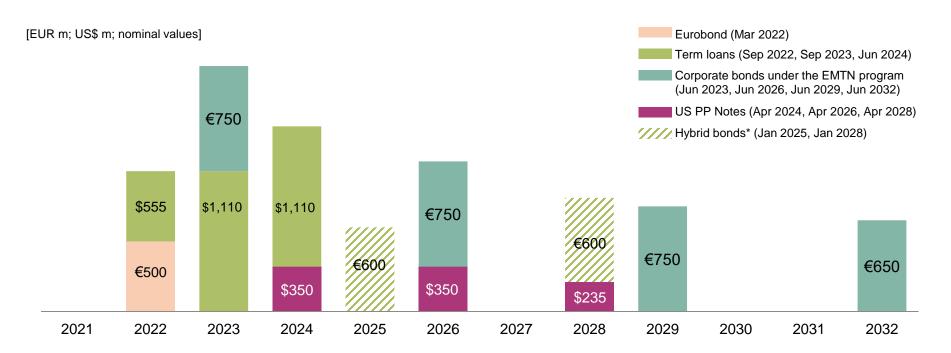




- > Q4 FY20: early repayment of one half of the first term loan (USD 555m).
- > Q1 FY21: Gross debt reduced by 174m EUR repayment and impact of weaker US-dollar on USD-denominated debt. Net debt: improvement driven by strong free cash flow and, to some extent, currency effects.

Maturity profile





Note: Graph excludes pre-existing Cypress convertibles of ~\$382m repayment value, maturing latest 2022, and additional debt with maturities between 2021 and 2023 totaling €9m.

^{*} On 1 Oct 2019, Infineon issued a perpetual hybrid bond with two tranches: €600m with first call date in 2025 and €600m with first call date in 2028; both are accounted as equity under IFRS.



Part of your life. Part of tomorrow.





ABB	accelerated book building		
AC	alternating current		
AC-DC	alternating current - direct current		
AD	automated driving		
ADAS	advanced driver assistance system		
AEB	automatic emergency braking		
AFS	advanced frontlight system		
AI	artificial intelligence		
AR	augmented reality		
ASP	average selling price		
BEV	battery electric vehicle		
BGA	ball grid array		
BLE	Bluetooth Low Energy		
BoM	bill of material		
ВТ	Bluetooth		
CL	contactless		
CPU	central processing unit		
CRC	cyclical redundancy check		
DC	direct current		
DC-DC	direct current - direct current		
DIF	dual-interface (contact-based and contactless)		
DIY	do it yourself		
DPM	digital power management		
eCall	emergency call		

ECC	error correction code		
ECU	electronic control unit		
EPS	electric power steering		
eSIM	embedded subscriber identity module		
ESS	energy storage system		
EV	electric vehicle		
FHEV	full hybrid electric vehicle		
FPGA	field programmable gate array		
G2M	go-to-market		
GaN	gallium nitride		
GPS	global positioning system		
GPU	graphics processing unit		
HEV	mild and full hybrid electric vehicle		
HMI	human machine interaction		
HSM	hardware security module		
HST	high-speed train		
HVAC	heating, ventilation, air conditioning		
HW	hardware		
IC	integrated circuit		
ICE	internal combustion engine		
IGBT	insulated gate biploar transistor		
loT	Internet of Things		
IPM	intelligent power module		
IVN	in-vehicle networking		
iPol	image processing line		





IRFPoIP	International Rectifier	
IVN	in-vehicle networking	
LCD	liquid crystal display	
LDO	low dropout voltage regulator	
LED	light-emitting diode	
LSEV	low-speed electric vehicle	
LSPS	LS Power Semitech Co. Ltd.	
μC	microcontroller	
Mb	megabit	
MCU	microcontroller unit	
MEMS	micro electro-mechanical systems	
MHA	major home appliances	
MHEV	mild hybrid electric vehicle	
MIMO	multiple input, multiple output	
micro-hybrid	vehicles using start-stop systems and limited recuperation	
mild-hybrid	vehicles using start-stop systems, recuperation, DC-DC conversion, e-motor	
MOSFET	metal-oxide silicon field-effect transistor	
MPU	microprocessor unit	
OBC	on-board charger	
OEM	original equipment manufacturer	
P2S	Infineon's strategic product-to-system approach	
PAS	photo-acoustic spectroscopy	
PFC	power factor correction	
PHEV	plug-in hybrid electric vehicle	
PMIC	power management IC	
Pol	point-of-load	

PSoC	programmable system-on-chip	
PV	photovoltaic	
RF	radio frequency	
rhs	right-hand scale	
Si	silicon	
SiC	silicon carbide	
SiGe	silicon germanium	
SMD	surface mounted device	
SMPS	switch-mode power supply	
SNR	signal-to-noise ratio	
SoC	system-on-chip	
SOTA	software over-the-air	
SPI	serial peripheral interface	
SRAM	static random access memory	
SW	software	
TAM	total addressable memory	
TCO	total cost of ownership	
ToF	time-of-flight	
TPM	trusted platform module	
UPS	uninterruptible power supply	
USB	universal serial bus	
V2X	vehicle-to-everything communication	
VR	virtual reality	
VSD	variable speed drive	
Wi-Fi	wireless fidelity	
xEV	all degrees of vehicle electrification (EV, HEV, PHEV)	

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This presentation contains forward-looking statements about the business, financial condition and earnings performance of the Infineon Group.

These statements are based on assumptions and projections resting upon currently available information and present estimates. They are subject to a multitude of uncertainties and risks. Actual business development may therefore differ materially from what has been expected.

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Financial calendar



Date	Location	Event
10 – 11 Feb 2021	San Francisco → virtual	Goldman Sachs Technology & Internet Conference
25 Feb 2021	Neubiberg → virtual	Annual General Meeting
1 Mar 2021	virtual	dbAccess Global ESG Conference
3 Mar 2021	Nuremberg → virtual	CSS Call along with embedded World trade show
9 – 10 Mar 2021	London → virtual	UBS Technology One-on-One Virtual Conference
11 Mar 2021	virtual	ODDO BHF 5 th Digital TMT Forum
24 Mar 2021	virtual	JPMorgan Fireside Chat
4 May 2021*		Q2 FY21 Results
6 May 2021	Nuremberg → virtual	IPC Call along with PCIM trade show
27 May 2021	London → virtual	JPMorgan European TMT Conference
8 – 9 Jun 2021	Paris → virtual	23 rd Exane BNP Paribas European CEO Conference
10 Jun 2021	San Francisco → virtual	Bank of America Global Technology Conference
17 Jun 2021	virtual	GS European Digital Economy Conference
1 Jul 2021	Barcelona → virtual	PSS Call along with MWC trade show
3 Aug 2021*		Q3 FY21 Results

^{*} preliminary

ESG footnotes



- 1) This figure considers manufacturing, transportation, function cars, flights, materials, chemicals, water/waste water, direct emissions, energy consumption, waste, etc. and is based on internally collected data and externally available conversion factors. All data relate to the 2020 fiscal year. Manufacturing service providers are not included.
- 2) This figure is based on internally established criteria, which are explained in the explanatory notes. The figure relates to the calendar year 2019 and considers the following fields of application: automotive, LED, induction cookers, server, renewable energy (wind, photovoltaic), mobile phone chargers as well as drives. CO₂ savings are calculated on the basis of potential savings of technologies in which semiconductors are used. The CO₂ savings are allocated on the basis of Infineon market share, semiconductor content and lifetime of the technologies concerned, based on internal and external experts' estimations.
- 3) Calculation based on average polycrystalline photovoltaic cells and the average yearly solar radiation of central Germany.
- 4) Based on the average electricity consumption of private households in Germany and official energy conversion factors.
- 5) Calculation based on average passenger capacity and direct flight route using externally available data and conversion factors.

Notes



Investments = 'Purchase of property, plant and equipment' + 'Purchase of intangible assets and other assets' incl. capitalization of R&D

expenses

Capital Employed = 'Total assets' – 'Cash and cash equivalents' – 'Financial investments' – 'Assets classified as held for sale

- ('Total Current liabilities' - 'Short-term debt and current maturities of long-term debt' - 'Liabilities classified as held for sale')

RoCE = NOPAT / Capital Employed

= ('Income from continuing operations' - 'financial income' - 'financial expense') / Capital Employed

Working Capital = ('Total current assets' - 'Cash and cash equivalents' - 'Financial investment' - 'Assets classified as held for sale') - ('Total

current liabilities' - 'Short term debt and current maturities of long-term debt' - 'Liabilities classified as held for sale')

DIO (days inventory outstanding; quarter-to-date) = ('Net Inventories' / 'Cost of goods sold') x 90

DPO (days payables outstanding; quarter-to-date) = ('Trade payables' / ['Cost of goods sold' + 'Purchase of property, plant and equipment']) x 90

DSO (days sales outstanding; quarter-to-date) = ('Trade receivables' - 'reimbursement obligations')* / 'revenue'* x 90

*without debtors with credit balances

Notes



Book-to-bill ratio - Definition

Book-to-bill = Orders received / Revenue in Euro per quarter

- Orders received contains order backlog and external customer forecast External customer forecast includes consignment stock forecast by customers Not included are internal consignment replenishment orders
- Orders received does not include unconfirmed orders received
 Unconfirmed demand will be reported as orders received and in book-to-bill when it gets confirmed
- > Orders received may not coincide with the IFRS 15 definition of a contract with a customer

For further reading



Power Semiconductor Business Update Call Dr. Peter Wawer, Andreas Urschitz 30 Nov 2020



https://www.infineon.com/2020powercall

Sustainability Report 2020 23 November 2020



https://www.infineon.com/sustainability_report

ATV Call Peter Schiefer 5 October 2020



https://www.infineon.com/2020atvcall

IFX Day 2018 Capital Markets Day London, 12 June 2018



https://www.infineon.com/ifxday_2018

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