# First Quarter FY 2018 Quarterly Update

Infineon Technologies AG Investor Relations





## Agenda

- 1 Infineon at a glance
- 2 Quarterly highlights
- 3 Growth drivers

**Automotive** 

**Power Management** 

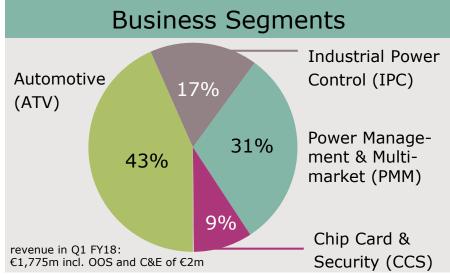
Security

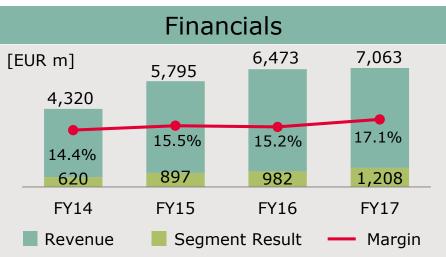
Selected financial figures

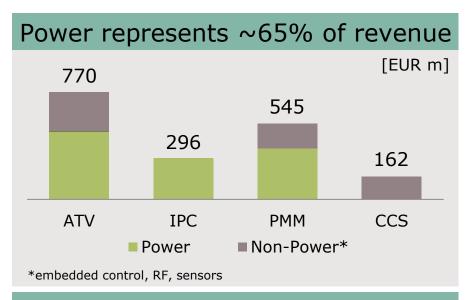
Please regard the "Notes" and "Glossary" at the end of the presentation.



## Infineon at a glance









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



#### Focus

- > Focus on fastest growing segments of semi market
- Tackle global megatrends

#### Technology leadership

Leverage core competencies in different end markets to maximize ROI

#### System understanding

Create value for customers through system understanding

#### Auto

System leader in automotive

#### Power

#1; system and technology leader

#### RF & Sensors

Broad RF and sensor technology portfolio

#### Security

#1 in Security Solutions

#### Average-cycle financial targets

~8% p.a. Revenue growth ~17% Segment Result margin ~13% Investment-to-sales (thereof capex\*: ~11%)

#### Continued value creation for shareholders

- continuous EPS increase

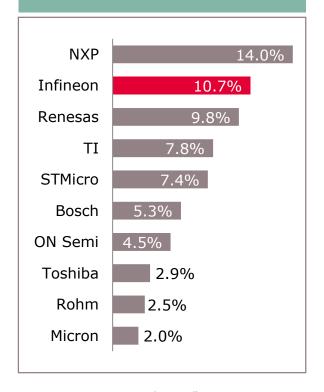
<sup>\*</sup> Infineon reports under IFRS and has therefore to capitalize development costs which represents currently ~2% of sales.

# Infineon increased relative market share in power and outperformed the chip card market



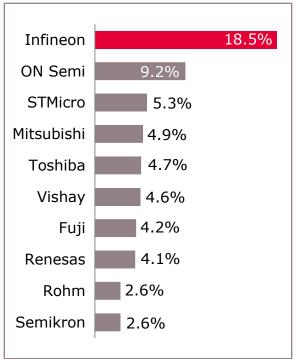
## Automotive semiconductors

total market in 2016: \$30.2bn



## Power discretes and modules

total market in 2016: \$15.9bn

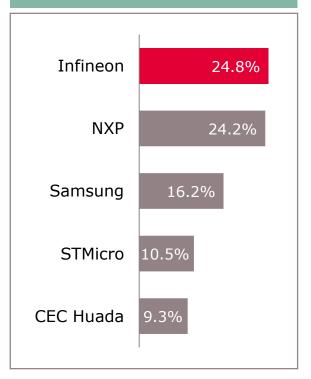


Source: Based on or includes content supplied by IHS Markit, Technology Group, "Power Semiconductor Annual Market

"Power Semiconductor Annual N Share Report", August 2017

## microcontroller-based Smart Card ICs

total market in 2016: \$2.79bn



Source: Based on or includes content supplied by IHS Markit, Technology Group, "Smart Cards Semiconductors Report", July 2017

Source: Strategy Analytics, "2016 Automotive Semiconductor Vendor Share", April 2017

2017

# Tight customer relationships, based on system know-how and application understanding



### **ATV** BOSCH **Autoliv** Ontinental 🕏 DELPHI HELLF DENSO HITACHI Inspire the Next LEAR. KEÏHIN OMRON. creh









Valeo









Distribution partners



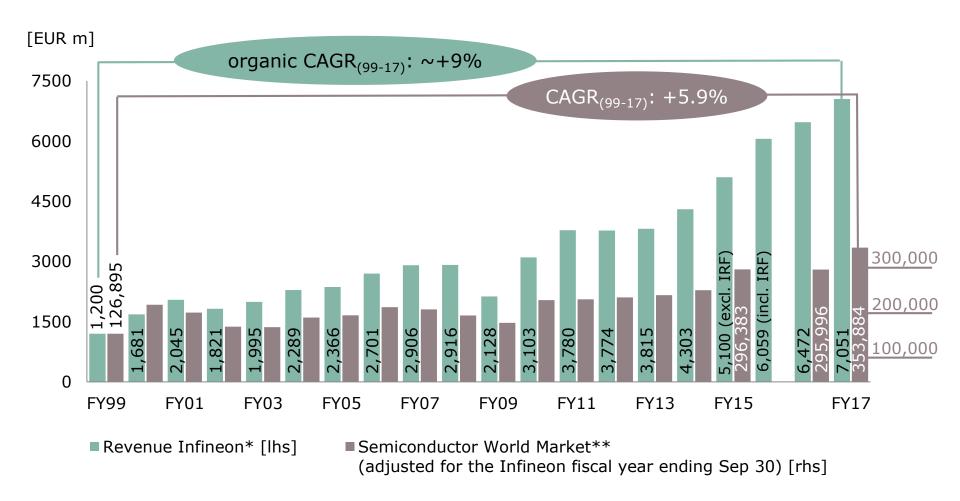






# Infineon's organic revenue development clearly outperformed the total semi market





<sup>\*</sup> Based on Infineon's portfolio (excl. Other Operating Segments and Corporate & Eliminations) per end of FY17.

<sup>\*\*</sup> Source: WSTS (World Semiconductor Trade Statistics) in EUR, October 2017

# Organic RoCE as the key value metric typically amounts to ~2x WACC

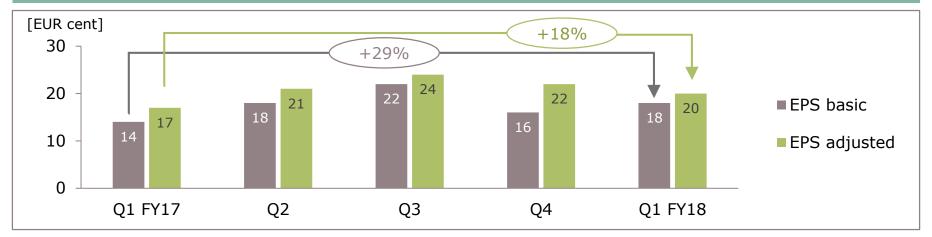


30% 20% 10% 0% FY15 FY16 FY17 Q1 FY18 Q2 Q3 Q4 ■ RoCE (excluding PPA and Deferred Tax Effects) ■ RoCE (reported)

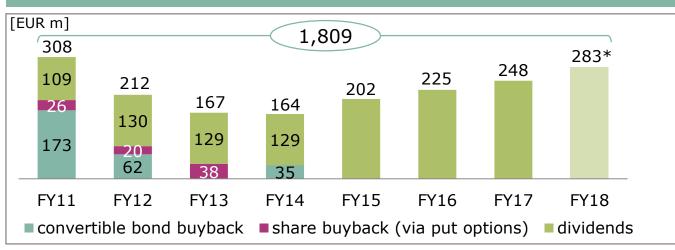
## Our commitment to investors: Continued value creation through growth



#### Earnings-per-share (EPS) development



#### Total cash return to shareholders



- Policy of sustainable dividend payout
- Increase of dividend from €0.22 to €0.25\*
- Payment of €283m\*
- \* Proposal to the AGM to be held on 22 February 2018



## Outlook for Q2 FY18 and FY18

|                             | Outlook Q2 FY18*                               | Outlook FY18*<br>(compared to FY17)  |  |
|-----------------------------|--|--|--|
| Revenue                     | Increase of 4%<br>+/- 2%-points                | Increase of 5%<br>+/- 2%-points<br>(prev.: "Increase of 9% +/- 2%-points"**) |  |
| Segment<br>Result<br>Margin | At the mid-point of the revenue guidance: ~16% | At the mid-point of the revenue guidance: $\sim 16.5\%$ (previously: 17% **) |  |
| Investments in FY18         |  | €1.1bn to €1.2bn   |  |
| D&A in FY18                 |  | About €880m***   |  |

<sup>\*</sup> Based on an assumed average exchange rate of \$1.25 for €1.00. \*\* Previously based on \$1.15 for €1.00.

<sup>\*\*\*</sup> Including D&A on tangible and intangible assets from purchase price allocation of International Rectifier.



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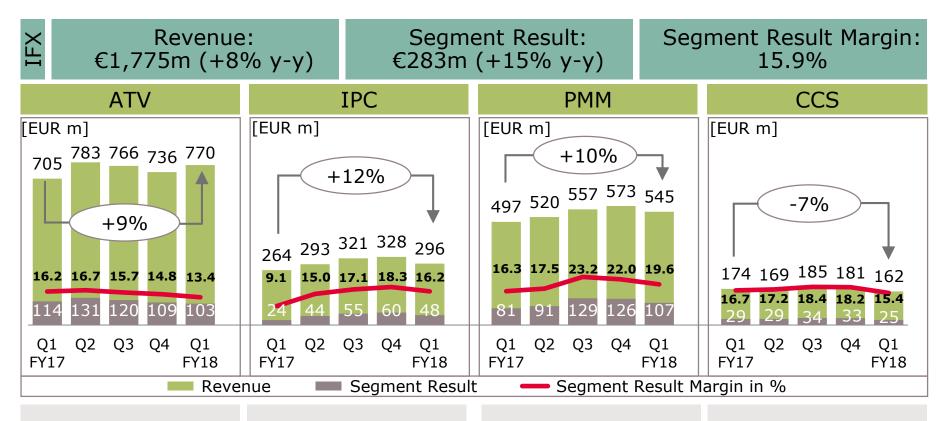
Security

Selected financial figures

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## Q1 FY18 Group and Division Performance

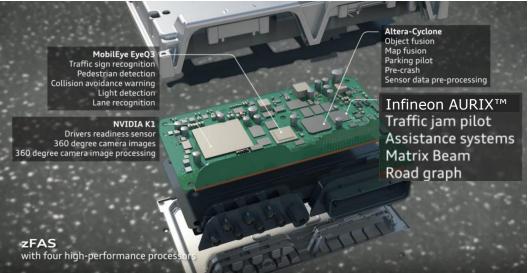


- Q1 FY18: q-q revenue increase mainly due to xEV
- Q1 FY18: q-q seasonal revenue decline mainly driven by renewables, drives and home appliances
- Q1 FY18: q-q seasonal revenue decline mainly driven by less demand in mobile devices
- Q1 FY18: q-q revenue decline mainly due to GovID, TPM, authentication and eSIM; Payment increased

# We are part of world's 1st series production car with L3 autonomous driving features







#### Infineon supplies key components for Audi A8. Examples:

- > 77 GHz radar sensor chips of our RASIC™ family are installed in the front and corner radar
- Audi's zFAS ("zentrales Fahrerassistenzsystem" = sensor fusion ECU) features AURIX™ microcontroller
- > Power semiconductors are used in the 48 V board system

# Innovative drivetrain topologies push demand for more power semiconductors, see NIO ES8





- End of 2017, NIO launched its first mass production car, the ES8 electric SUV
- Innovative drivetrain concept:
  - dual-electric motor
  - 6-phase motor on each axle
- Infineon provides all major semis for the drivetrain: 4x IGBT modules, 48x drivers, 2x AURIX™ microcontrollers

Front and rear motor with total 480 kW system performance



2x HybridPACK™ Drive for 6-phase front motor

2x HybridPACK™ Drive for 6-phase rear motor



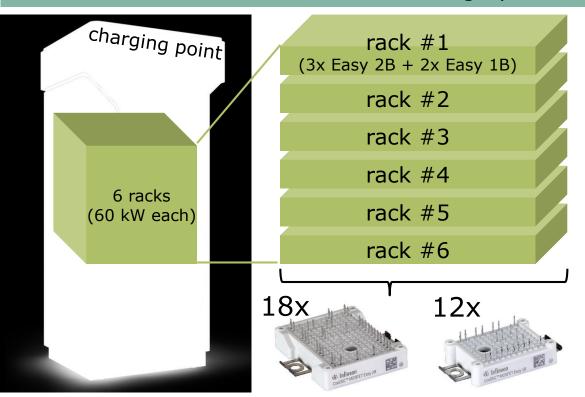


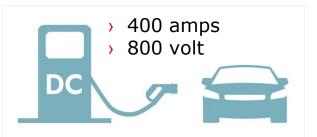
Very high semiconductor content per car: > \$900

## Infineon secured SiC design-win for ultra highpower charging station network



#### SiC-based 350 kW ultra high-power charging point





- 20 min charging time
- water-cooled charging cable
- ~400 charging stations in 18 EU countries by 2020
- ~6 charging points per charging station

CoolSiC™ MOSFET Easy 2B

CoolSiC<sup>™</sup> MOSFET Easy 1B

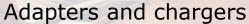
Total SiC-based power semiconductor content per charging point: more than \$3,500

## PMM is unlocking further growth potential by extending its power IC portfolio



#### Latest example: XDP™ – solution for digital power control









More than 60m pieces shipped since market launch in 2015; shipment of another 60m pieces expected in FY18

- $XDP^{TM}$  is addressing key industry needs, i.e. high efficiency, size reduction, flexibility in design and production
- High-profile customer base has already adopted XDP™ controllers: Focus on high-density adapters for TV, chargers for PC/notebooks and commercial lighting
- Many customers combine the controller with Infineon CoolMOS™ transistor



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## Reference to web presentations

10 Oct 2017: ATV Division Call

by Peter Schiefer, Division President Automotive

www.infineon.com/atv-call

29 Jun 2017: PMM Division Call

by Andreas Urschitz

Division President Power Management & Multimarket

www.infineon.com/pmm-call

11 May 2017: Deutsche Bank AutoTech Conference

by Dr. Jürgen Rebel, CVP Investor Relations

www.infineon.com/db-autotech

16 Mar 2017: Bernstein xEV and Energy Storage Conference

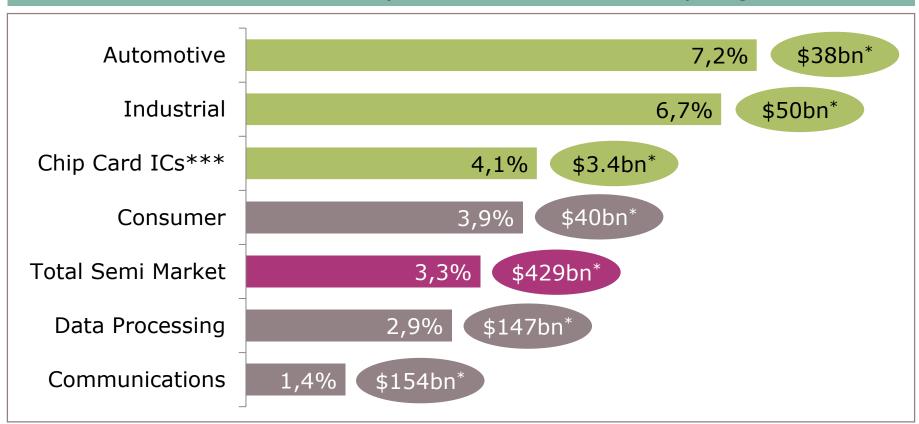
by Hans Adlkofer, VP Automotive System Group

www.infineon.com/bernstein

# Infineon benefits from industrial and auto, the by far fastest growing segments







<sup>\*</sup> Market size in calendar year 2017

<sup>\*\*</sup> Source: Based on or includes content supplied by IHS Markit, Technology Group, "Worldwide Semiconductor Shipment Forecast", December 2017

<sup>\*\*\*</sup> Source: ABI Research, "Secure Smart Card & Embedded Security IC Technologies", August 2017; microcontroller ICs

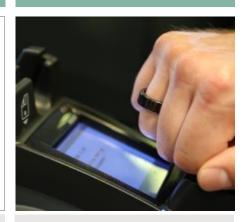
# Infineon's long-term growth is based on sustainable growth drivers



#### **ATV**

**IPC** 

#### **PMM**



CCS

- CO<sub>2</sub> reduction
- Advanced Driver Assistance Systems

Courtesy: Hyundai

- Energy efficiency
- Automation
- Productivity increase

- Energy efficiency
- Power density
- BLDC motors
- Mobile device

- Security as a function
- Mobile payments
- Authentication
- Internet of Things

## ~8% p.a. through-cycle growth



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#### **Automotive**

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# Infineon is system leader in automotive; making cars clean, safe and smart



#2 with market share gains in power and sensors:

- #1 in power semiconductors\*
- #2 in sensors\*
- #4 in microcontrollers\* (#1 in powertrain\*\*)

Most balanced portfolio with sensors, microcontrollers and power for system approach

Leader in electric drivetrain and CO<sub>2</sub> reduction - making cars clean

#### Leader in ADAS

- making autonomous driving safe and reliable

Leading product portfolio of sensors and security ICs for individual convenience and connectivity - making cars smart

Focus on sustainable high-bill-of-material areas: powertrain, safety/ADAS/autonomous cars, body

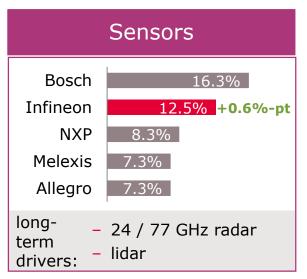
Infineon is well positioned to benefit from ADAS/AD, xEV, and connected cars and to gain further market share in the automotive market

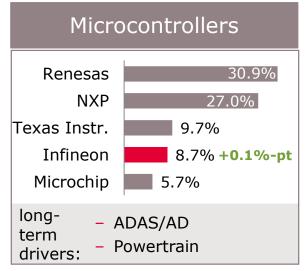
<sup>\*</sup> Source: Strategy Analytics, April 2017; \*\* Infineon estimate.

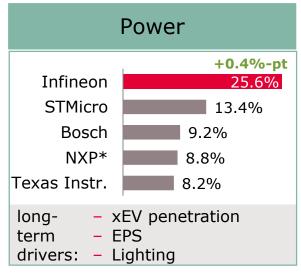
## Infineon's position in the automotive semiconductor universe









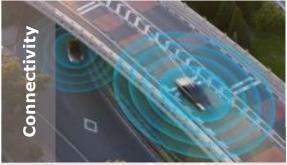


<sup>\*</sup> Divestiture of NXP's Standard Product business ("Nexperia") closed on 16 Feb 2017; hence included in the 2016 ranking. Source: Strategy Analytics, "Automotive Semiconductor Vendor Market Shares", April 2017

# Megatrends shaping the automotive market; significantly increasing semi content per car







Enabling the communication of cars



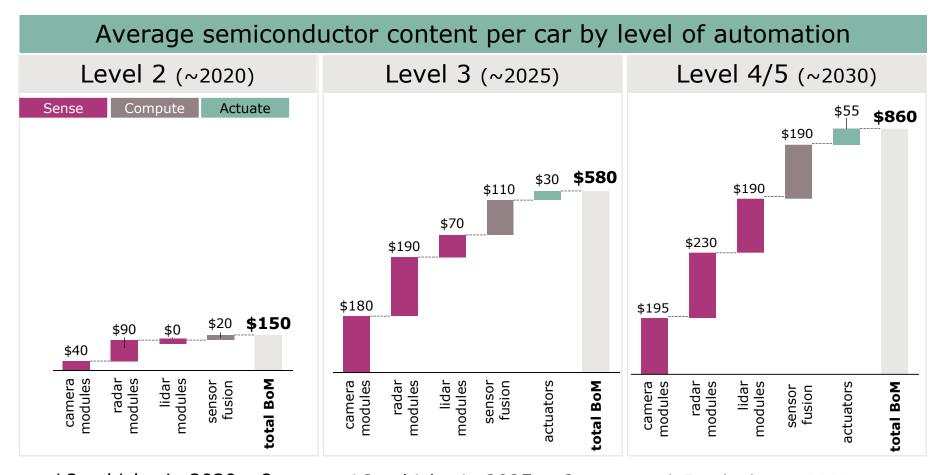
Enabling safety towards Vision Zero

Enabling CO<sub>2</sub> reduction

Enabling security in connected cars

# ADAS/AD semi growth driven by radar and camera sensor modules over the next 5 years





L2 vehicles in 2020:~8m

L3 vehicles in 2025: ~3m

L4/L5 vehicles in 2030: ~4m

Source: Strategy Analytics; Infineon.

Bill of material contains all type of semiconductors (e.g. radar modules include  $\mu C$ ).

# More sensors required for any next level of automation will lead to sensor cocoon in L4/5



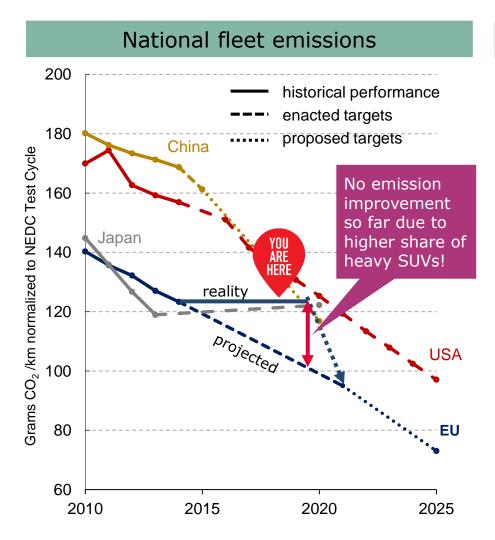
|  |                         | Level of automation                                  |                               |                                      |
|--|-------------------------|--|-------------------------------|--------------------------------------|
|  |                         | Level 2  | Level 3                       | Level 4/5                            |
|  | Application*            | Automatic emergency brake/ forward collision warning |                               |                                      |
|  |                         | Parking assist                                       |                               | Valet parking                        |
|  |                         | Lane keep assist                                     | Highway assist                | Highway and urban chauffeur          |
|  | Radar<br># of modules** | ≥ 3  | ≥ 6                           | ≥ 1                                  |
|  | Camera # of modules**   | ≥ 1  | ≥ 4                           | ≥ 8                                  |
|  | Lidar<br># of modules** | 0  | ≤ 1                           | ≥ 1                                  |
|  | Others                  | Ultrasonic   | Ultrasonic<br>Interior camera | Ultrasonic<br>Interior camera<br>V2X |

<sup>\*</sup> Source: VDA (German Association of the Automotive Industry); Society of Automotive Engineers

<sup>\*\*</sup> Market assumption

# CO<sub>2</sub> emission targets are the key triggering points for increase in semiconductors





Source: The International Council for Clean Transportation, 2017

#### CO<sub>2</sub> drives three major trends

#### (1) Higher efficiency of the 'classic' ICE:

- EPS (electric power steering)
- start-stop
- dual-clutch
- alternator

## (2) Energy efficiency of body applications:

- power distribution
- electric motors for pumps and fans

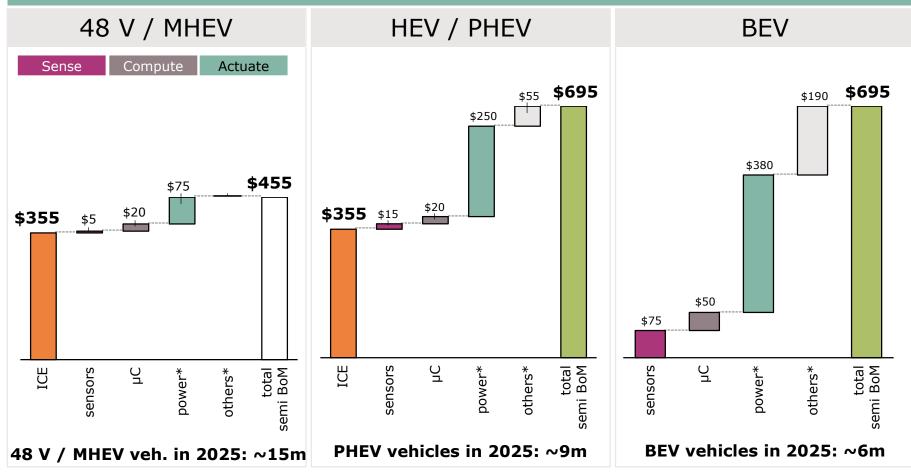
#### (3) Electrification of the drivetrain:

- main inverter
- auxiliary inverter
- onboard charger
- battery management

## The incremental demand of power semiconductors is a significant opportunity



#### 2017 average xEV semiconductor content by degree of electrification



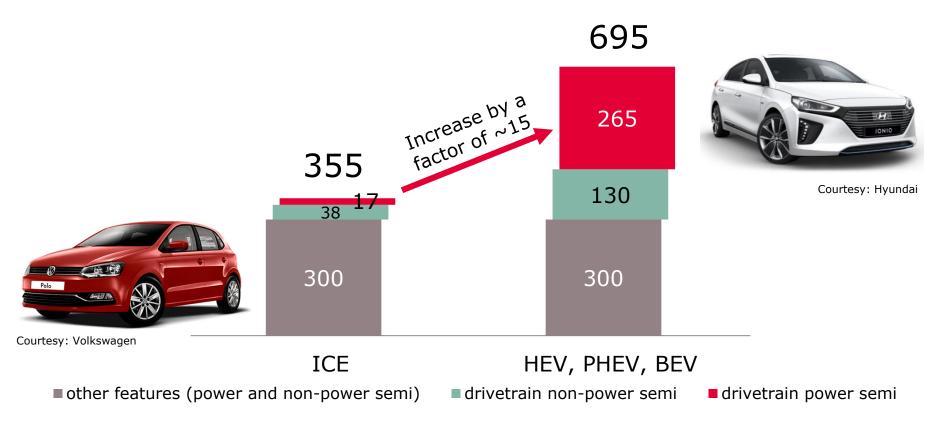
Source: Strategy Analytics, "Automotive Semiconductor Content", May 2017; Infineon \* "power" includes linear and ASIC; "others" include opto, small signal discrete, memory

# With the transition from ICE to xEV the power semi content in powertrain increases by ~15x



#### Average semiconductor content by type of car

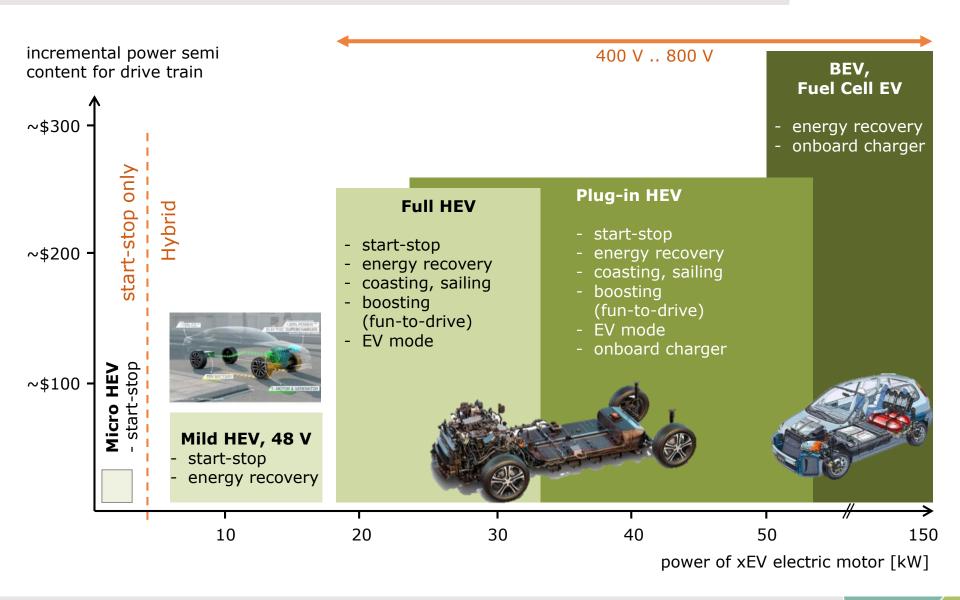
[USD]



Source: Strategy Analytics, "Automotive Semiconductor Content", May 2017; Infineon

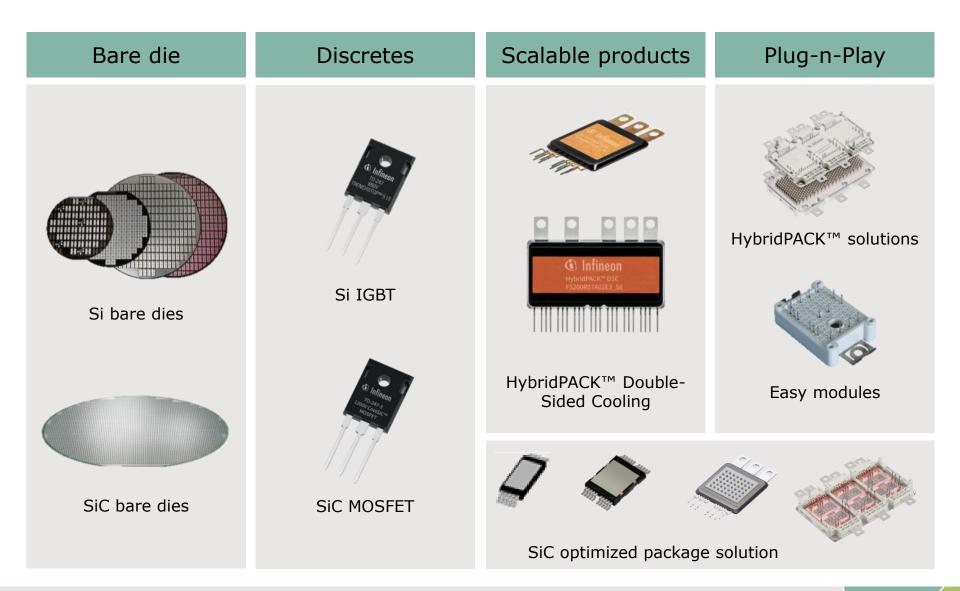
# Power semiconductor demand for all different levels of electrification





# Infineon has unparalleled package expertise for high-power main inverter applications





# ADAS/AD, clean cars, and adoption of premium features drive growth



#### Vehicle production



#### Drivers for semiconductor content per car

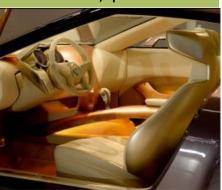
Clean cars



#### ADAS/AD



Comfort, premium



- > 2% growth p.a.
- Legislation
- Improvements of ICE
- Higher efficiency of all electric consumers
- Adoption of xEV

- Today:
  - › crash avoidance
  - ADAS
- Tomorrow:
  - Autonomous Driving
- Premium cars are early adopters of high-end comfort and safety features
- Trickling down to midrange

## ~8% p.a. through-cycle growth



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# of innovation

## Infineon is #1 and technology leader in power semiconductors



#1 in the market\* for MOSFETs, discrete IGBTs, IGBT-based modules and total market

Broad product and technology portfolio

Addressing broadest range of applications

300 mm thin-wafer manufacturing for power semiconductors

System leader with digitalization of the control loop and functional integration

Leader in next-generation power semiconductor materials SiC and GaN

Infineon is well positioned to gain further market share and earn clearly above market-average margins in power semiconductors

areas

KeV

<sup>\*</sup> Source: IHS Markit, Technology Group, "Power Semiconductor Annual Market Share Report", August 2017

# Efficiency, productivity and legislation are main market drivers for power applications



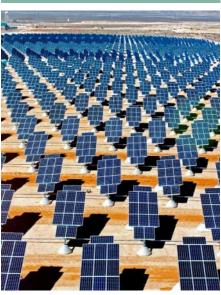
#### **IPC**

#### Drives



- > Energy efficiency
- Automation
- > Productivity increase

#### Renewables



- Legislation
- Growing share of renewables as part of the energy generation mix

#### MHA



- > Energy efficiency
- Growing VSD penetration

#### Traction



- Growing population in mega cities
- Fast and efficient mass transport system

# IPC is perfectly positioned to outperform traditional markets and leverage emerging ones



#### **Traditional markets with <5% p.a.**

- Portfolio for automation application to compensate low demand in drives
- Strong position in stable wind market
- Broad traction portfolio including highspeed trains, metro, trams, and urban transportation
- Weakest level of growth in oil & gas (process automation) passed as capex slowly recovers







#### **Emerging markets with >5% p.a.**

- Comprehensive offering and expertise in innovative material SiC
- Ongoing inverterization of home appliances
- Long-term high-growth applications like PV, transmission & distribution, and commercial, construction and agricultural vehicles
- Emerging applications like energy storage, EV charging, and robotics







## Industrial Power Control to grow ~8% p.a.

## PMM's growth is built on many applications from different sectors



### **PMM**

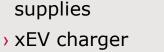
### Computing



### **Industrial**



- > Server
- > PC
- Notebook
- Peripherals



Industrial power

- > PV roof-top inverter
- DIY power tools
- Lighting





- > Pedelecs / eBikes
- Multicopter
- Aviation
- Space
- Oil exploration



### Communications



- Handsets
- Wearables
- > Cellular infrastructure



AC-DC



DC-DC



**RFS** 



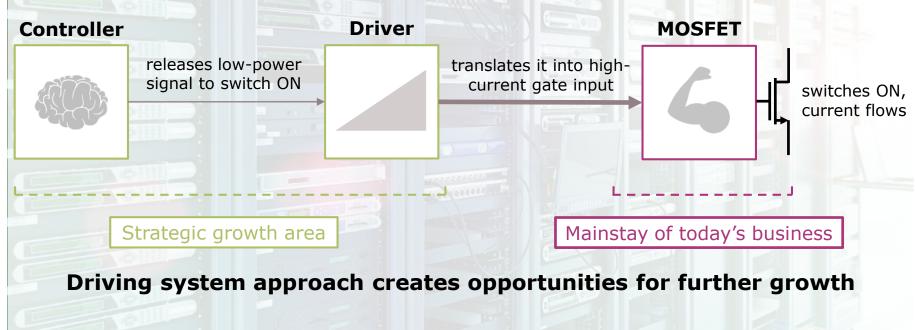




# Product-to-System approach opens growth opportunities beyond MOSFETs



Essential parts of any electronic system (e.g. in an SMPS); can be realized with separate components or as an integrated power stage as system-on-chip



- Expansion of IC product portfolio increases addressable market
- TAM in 2021\*: ~€7.0bn

- MOSFETs account for ~80% of today's PMM power business
- TAM in 2021\*: ~€6.3bn

<sup>\*</sup> Infineon estimates

# Strengthening IC business allows for faster growth in power than market average















Average through-cycle growth of power business: 8% p.a.

2-3%-pt p.a.

from power ICs



+

5-6%-pt p.a.

from MOSFETs



Expand product portfolio

**Bundle with MOSFETs** 

Tailor go-to-market strategy

Leverage system knowhow

Maintain technology leadership

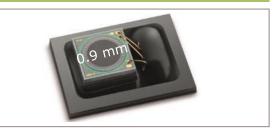
Capitalize on scale advantage

Further extend market leadership

# PMM is a leader in core technologies for ambient sensing, thus driving innovation



### **MEMS**



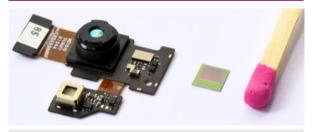
- #2 in the market (33.5%) for silicon microphones\*
- World's best signal-tonoise ratio
- Integration of additional sensing functions

### Radar



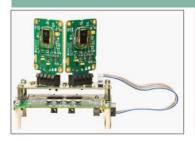
- 60 GHz radar sensors e.g. for gesture sensing (example: Google Soli)
- 24 GHz radar sensors e.g. for automotive, robotics and smart home

### Time of Flight



- XENSIV™ REAL3™ image sensor for AR/VR applications in smartphones and automotive driver monitoring
- High-resolution 3D image sensor available with 19k, 38k and 100k pixels
- Measuring brightness and distance for every single pixel

### Sensor fusion



 Combination of microphone and radar with audio processor from XMOS enables far-field voice capture by audio beamforming combined with radar target presence detection

<sup>\*</sup> Source: IHS Markit, Technology Group, "MEMS microphone database", October 2017

# Tailored growth strategies help maintain leadership position in both major segments



#### Power

### Current position



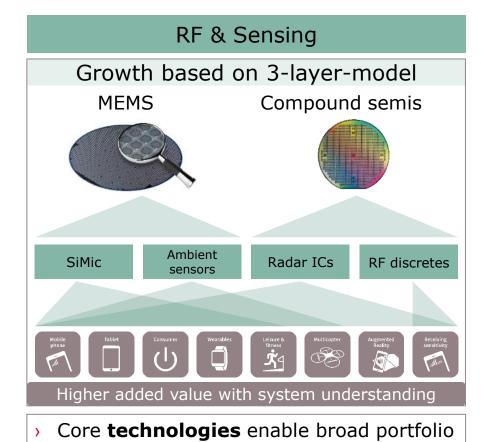
- Scale and technology leader in power MOSFETs
- Broadest portfolio: 25 V 900 V
- Addressing all applications
- $\rightarrow$  #1 holding  $\sim$ 1/3 of the market

#### **Growth levers**



- Capitalize on scale and technology leadership in discretes
- Double TAM by pushing into power management ICs

Growth of  $\sim$ 8% p.a.



Growth of  $\sim$ 8% p.a.

of **products** for even more **applications**.



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## Infineon is the leader in security solutions for the connected world



#1 in microcontroller-based smart card ICs\*

Complete portfolio of hardware, software, services and turnkey solutions

Leading in growth segments payment, government ID, connected car security, IoT, and Information and Communications
Technology security

Infineon is well positioned to benefit from the growth trends in the security controller market

<sup>\*</sup> Source: IHS Markit, Technology Group, "Smart Card Semiconductors Report", July 2017

# Tailored embedded security µC portfolio for applications in the hyper-connected IoT world







- Infineon AURIX™ microcontroller with HSM for onboard communication
- Security microcontrollers (e.g. eSIMs, TPMs) enable various functions like eCall, software over-the-air, vehicle-to-infrastructure, and on-board multimedia



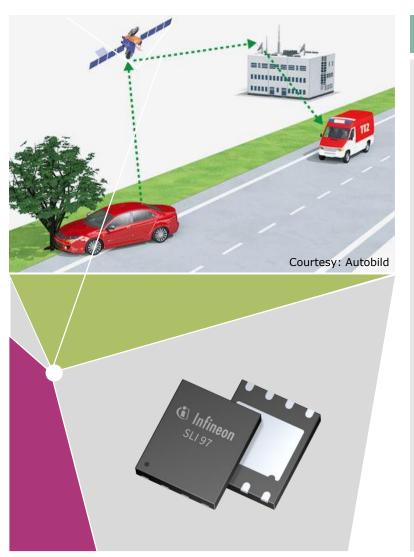
- Security microcontroller for Infineon MIPAQ™ Pro IPM enabling authentication
- Security chips are integrated in solutions for Industry 4.0 applications, e.g. robots



> OPTIGA™ TPM and OPTIGA™ Trust for devices like smart home routers and gateways (e.g. Google OnHub), smart meters, smart lighting etc.

# Infineon is the leading supplier of eSIM for emergency call (eCall) system for cars





### eSIM

- Emergency call function (eCall) will be mandatory for all new registered cars in the EU as of 31 March 2018
- Infineon is world's leading supplier of embedded SIMs (eSIMs) used for eCall function
- In addition to eCall eSIMs enable various functions like
  - software over-the-air (SOTA)
  - vehicle-to-infrastructure
  - on-board multimedia
- Infineon's related eSIM revenue almost doubled in FY17; for FY18, again strong growth expected



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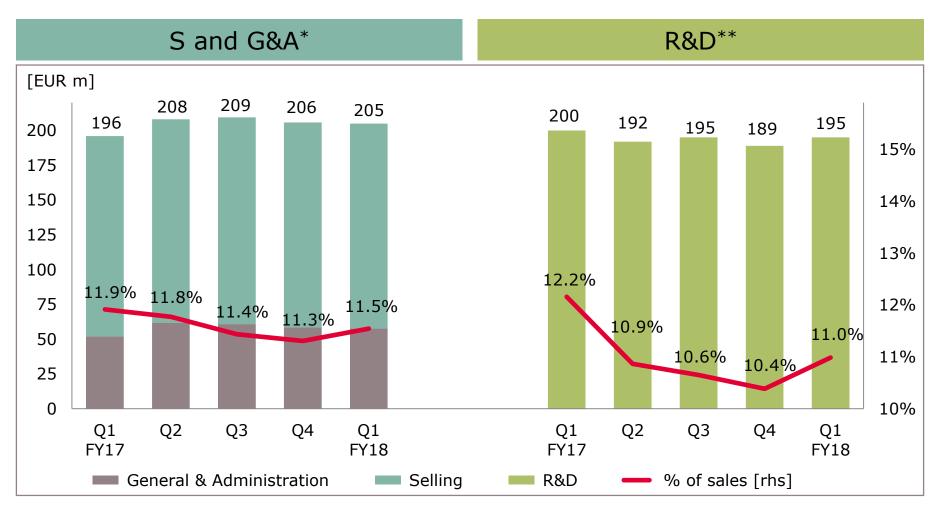
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## Opex level right on target

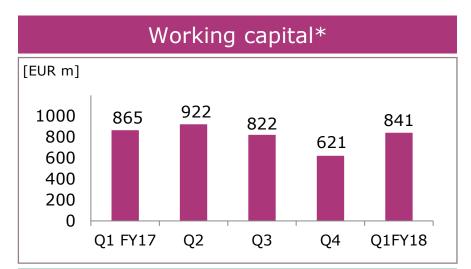


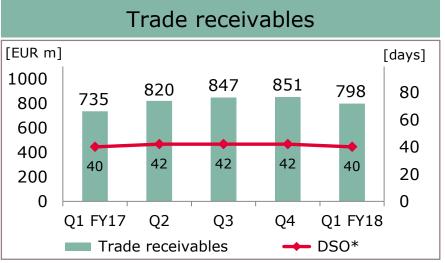
<sup>\*</sup> Target range for SG&A: "Low teens percentage of sales".

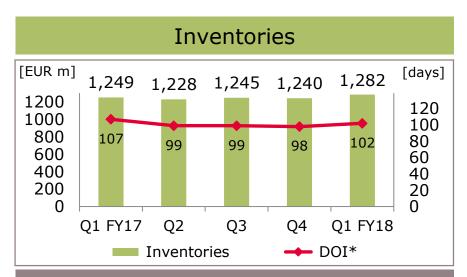
<sup>\*\*</sup> Target range for R&D: "Low to mid teens percentage of sales". In FY17, R&D expenses amounted to €776m, incl. reduction of €68m of grants received. Not included are €129m of capitalized development costs.

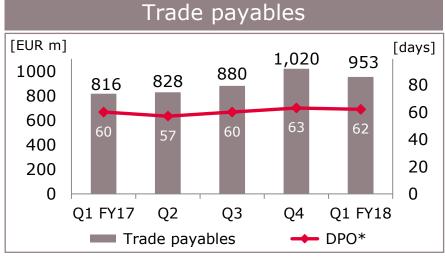
# Increase in trade payables due to high investments







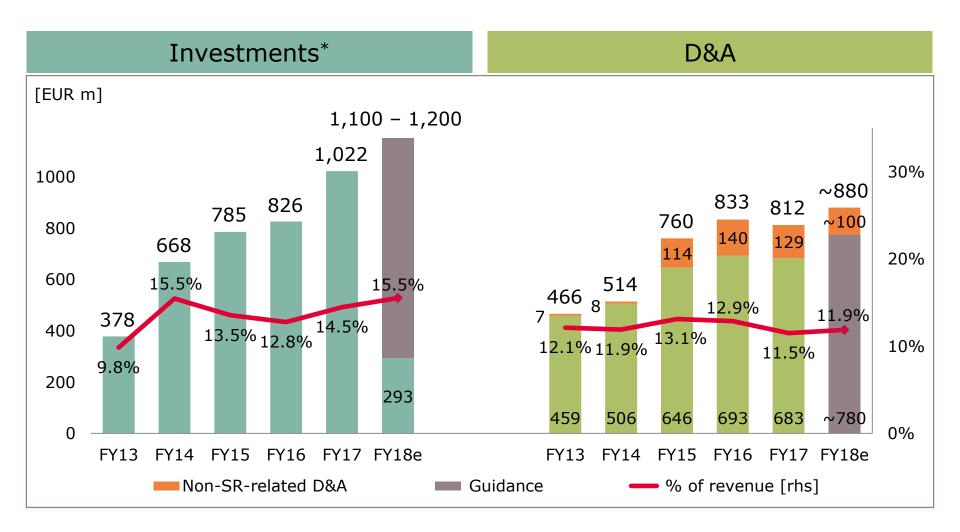




<sup>\*</sup> For definition please see page "Notes".

# Investments between €1.1bn and €1.2bn due to strong underlying growth in demand

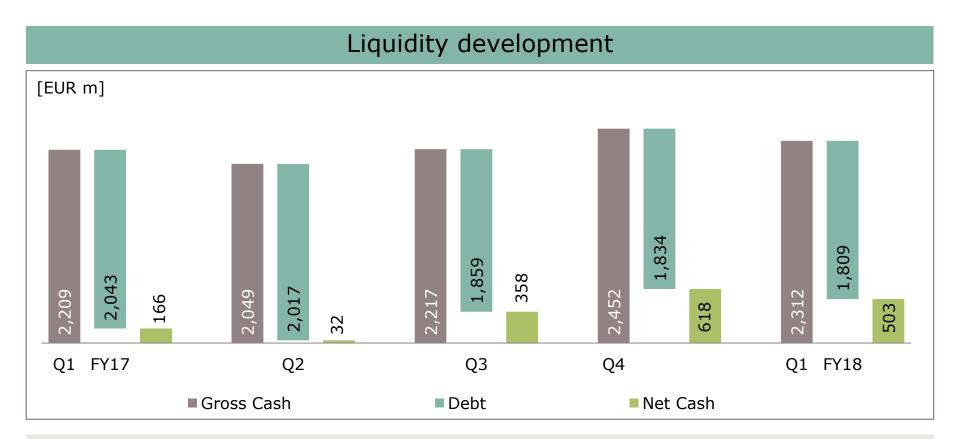




<sup>\*</sup> For definition please see page "Notes".



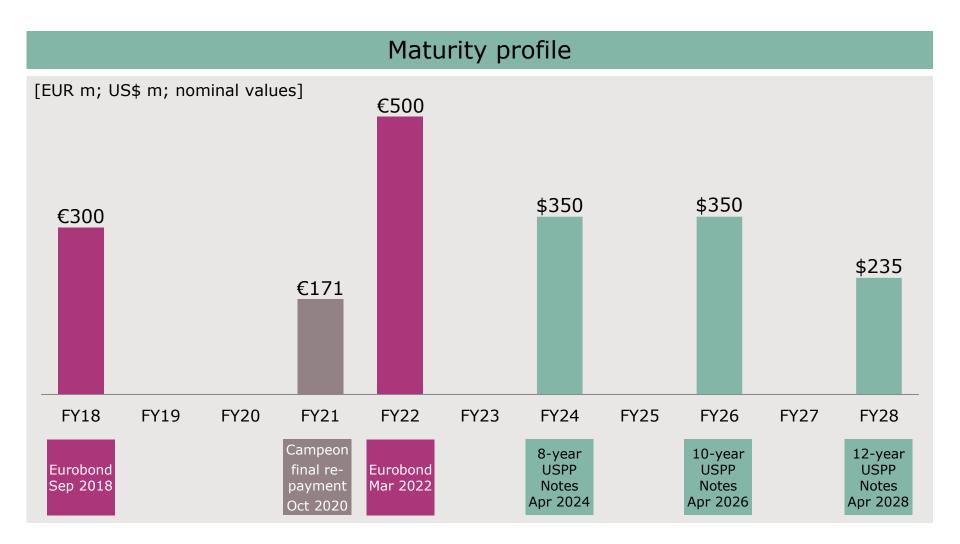
## Healthy gross cash and net cash position



- Operating cash flow from continuing operations was €158m
- Free Cash Flow from continuing operations was -€135m
- Debt decreased by €25m due to repayments of €13m and a change in FX-rates used for valuing of US\$-based debt

# Infineon has a balanced maturity profile and a solid investment grade rating (BBB) from S&P





Note: Additional debt with maturities between 2018 and 2023 totaling €61m of which €32m repayments related to Campeon.



Part of your life. Part of tomorrow.





## Disclaimer

#### **Disclaimer:**

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.

Beyond disclosure requirements stipulated by law, Infineon does not undertake any obligation to update forward-looking statements.

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# Infineon is a long-standing member of Europe's leading sustainability indices



### Infineon's most recent achievements

MEMBER OF

## Dow Jones Sustainability Indices

In Collaboration with RobecoSAM 🐠

- Jan 2018: Infineon is listed in the Sustainability Yearbook for the 8<sup>th</sup> consecutive year and has received the Bronze Class distinction for its excellent sustainability performance.
- Sep 2017: Infineon is listed in the Dow Jones
   Sustainability Europe Index (as the only semiconductor company) for the 8<sup>th</sup> consecutive year and in the World Index for the 3<sup>rd</sup> time

Sep 2016: Infineon is listed in the STOXX® Global ESG Leaders Indices, which serves as an indicator of the quality of Infineon's performance in the governance, social and environmental areas (ESG)





FTSE4Good

- Infineon was added to the FTSE4Good Index Series in 2001 and has been confirmed as a member since then
- > Jul 2017: Most recent review
- Since 2014, Infineon has been publishing information on opportunities and risks due to climate change through the "Carbon Disclosure Project" (CDP).
- For 2017, Infineon has earned a spot among the three best companies in the "Information Technology" sector in the Germany, Austria and Switzerland region.



 Mar 2017: Infineon has been reconfirmed as a constituent of the Ethibel Sustainability Index (ESI) Excellence Europe



## Financial calendar

| Date             | Location                          | Event   |
|------------------|-----------------------------------|---|
| 22 Feb 2018      | Munich                            | Annual General Meeting  |
| 26 - 28 Feb 2018 | Barcelona                         | Mobile World Congress   |
| 03 May 2018*     |                                   | Q2 FY18 Results   |
| 12 June 2018     | London                            | Capital Markets Day "IFX Day 2018"                                      |
| 01 Aug 2018*     |                                   | Q3 FY18 Results   |
| 30 Aug 2018      | Frankfurt                         | Commerzbank Sector Conference   |
| 24 Sep 2018      | Unterschleißheim<br>nearby Munich | Berenberg and Goldman Sachs 7 <sup>th</sup> German Corporate Conference |
| 25 Sep 2018      | Munich                            | Baader Investment Conference  |
| 12 Nov 2018*     |                                   | Q4 FY18 and FY 2018 Results   |

<sup>\*</sup> preliminary



### **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

## **DOI** (days of inventory; quarter-to-date) = ('Net Inventories' / 'Cost of goods sold') \* 90

#### Please note:

All positions in ' ' refer to the respective accounting position and therefore should be applied with the positive or negative sign used in the relevant accounting table.

#### **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')

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

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



## Glossary

| AD    | automated driving                     |
|-------|---------------------------------------|
| ADAS  | advanced driver assistance system     |
| AEB   | automatic emergency braking           |
| AR    | augmented reality                     |
| ВоМ   | bill of material                      |
| DPM   | digital power management              |
| eCall | emergency call                        |
| EPS   | electric power steering               |
| eSIM  | embedded subscriber identity module   |
| EV    | electric vehicle                      |
| HEV   | mild and full hybrid electric vehicle |
| HSM   | hardware security module              |
| ICE   | internal combustion engine            |
| IPM   | intelligent power module              |

| МНА              | major home appliances  |
|------------------|--|
| micro-<br>hybrid | vehicles using start-stop systems and limited recuperation                 |
| mild-<br>hybrid  | vehicles using start-stop systems, recuperation, DC-DC conversion, e-motor |
| ОВС              | onboard charger  |
| PHEV             | plug-in hybrid electric vehicle  |
| SiC              | silicon carbide  |
| SiGe             | silicon germanium  |
| SOTA             | software over-the-air  |
| TPM              | trusted platform module  |
| UPS              | uninterruptible power supply   |
| V2X              | vehicle-to-everything communication  |
| VR               | virtual reality  |
| VSD              | variable speed drive   |
| xEV              | all degrees of vehicle electrification (EV, HEV, PHEV)                     |



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