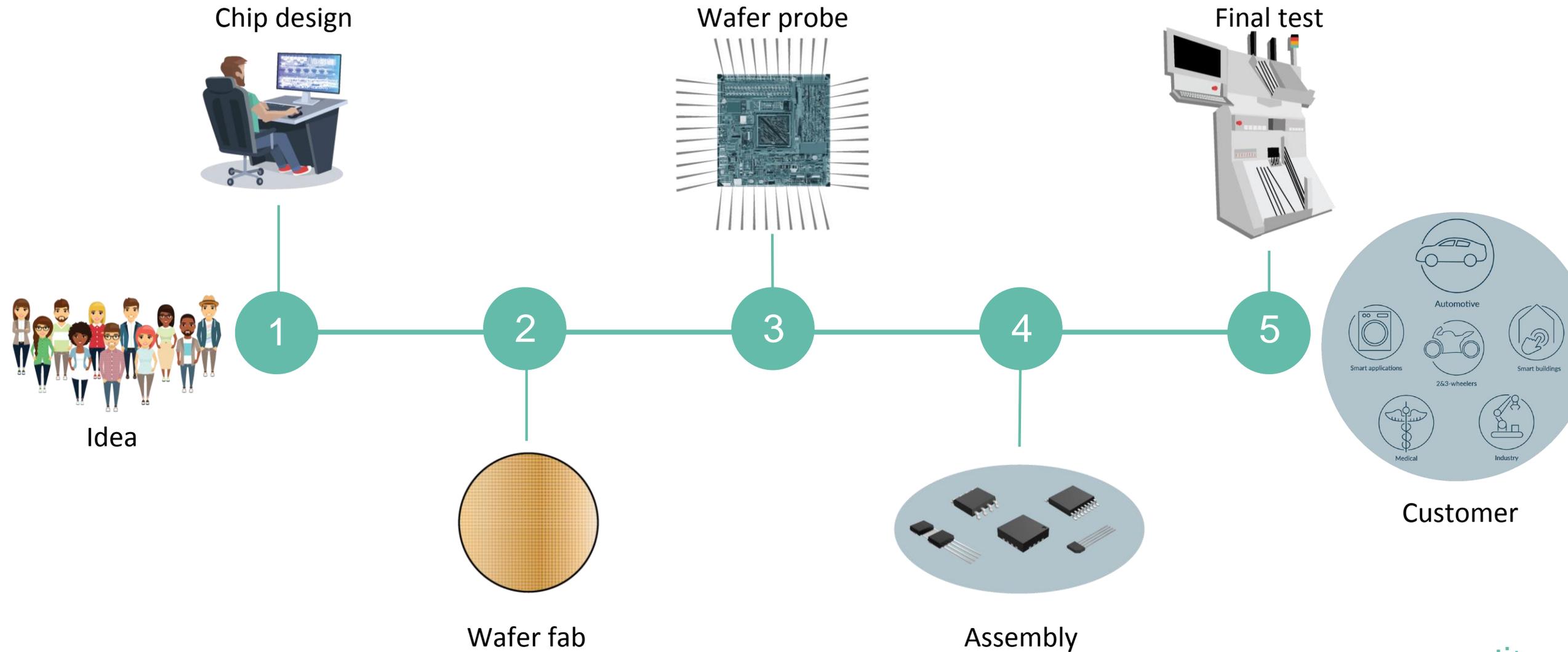




## Presentation results FY 2020

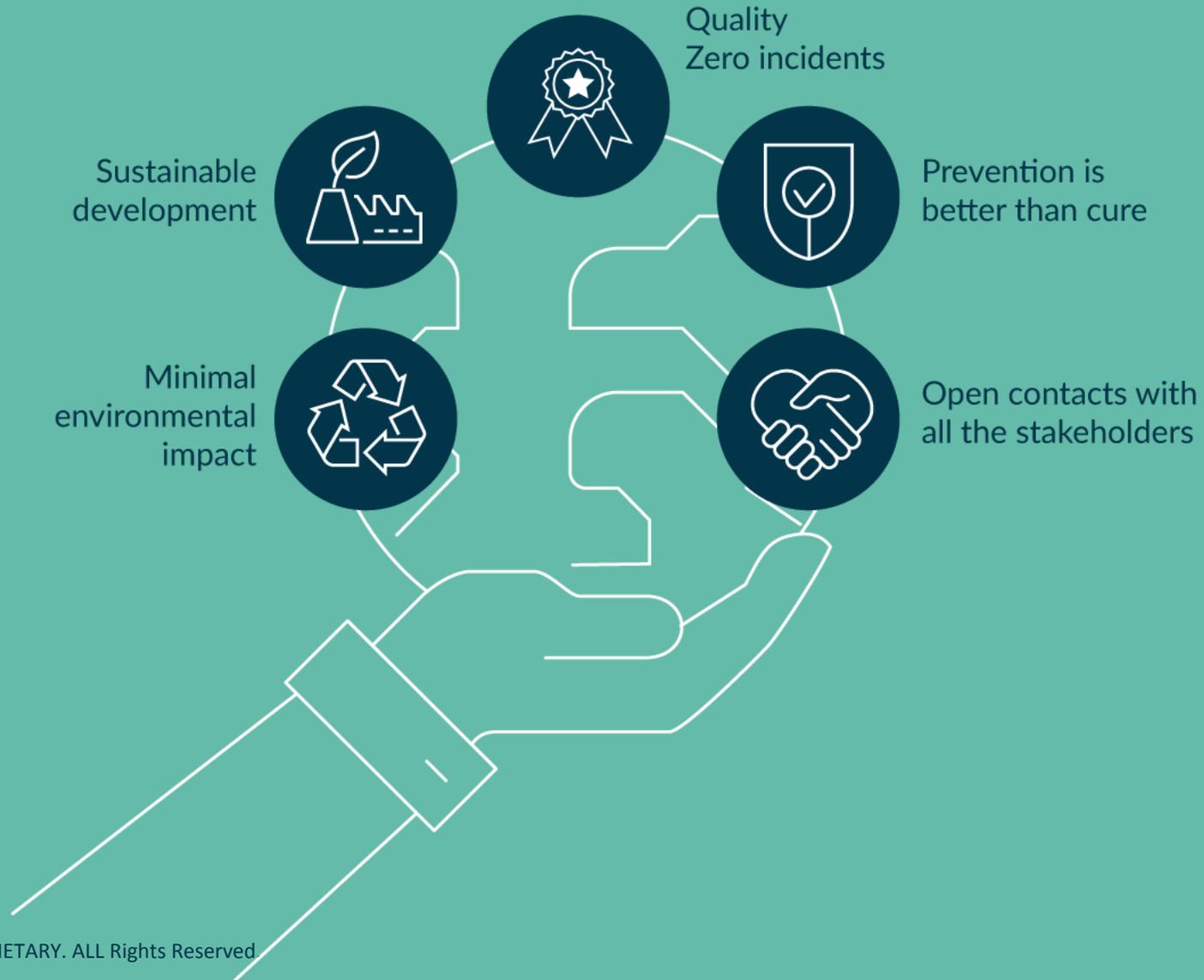


# Process flow



# SUSTAINABILITY AT HEART

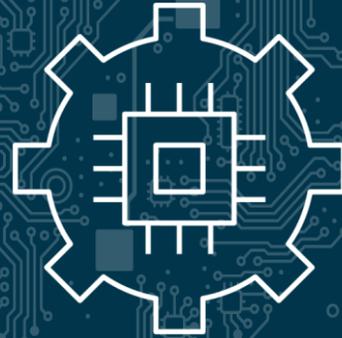
Our environmental policy is based on five principles



# Melexis strategy



Focus on  
*innovation* in  
automotive and  
adjacent  
markets

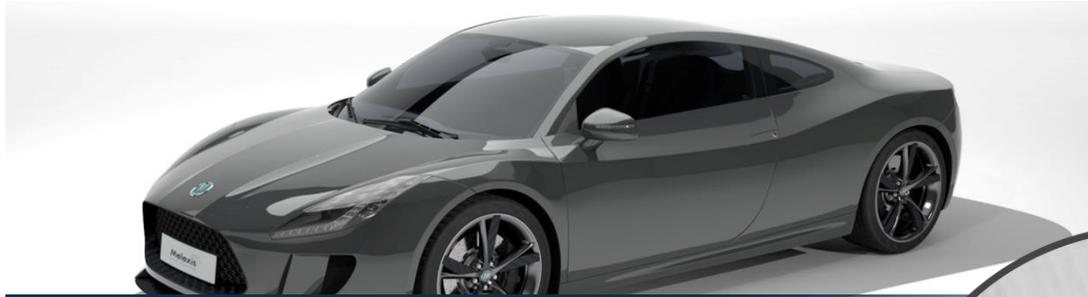


Leadership in  
*sensing and  
driving solutions*  
to our  
customers'  
advantage



*Organic growth,*  
selective  
acquisitions

# Common denominator: sensing & driving is everywhere



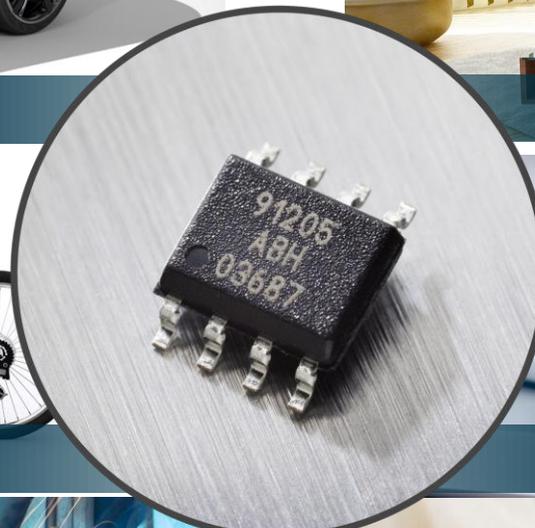
Automotive



Home



Motorcycles and e-bikes



Consumer



Industry



Healthcare

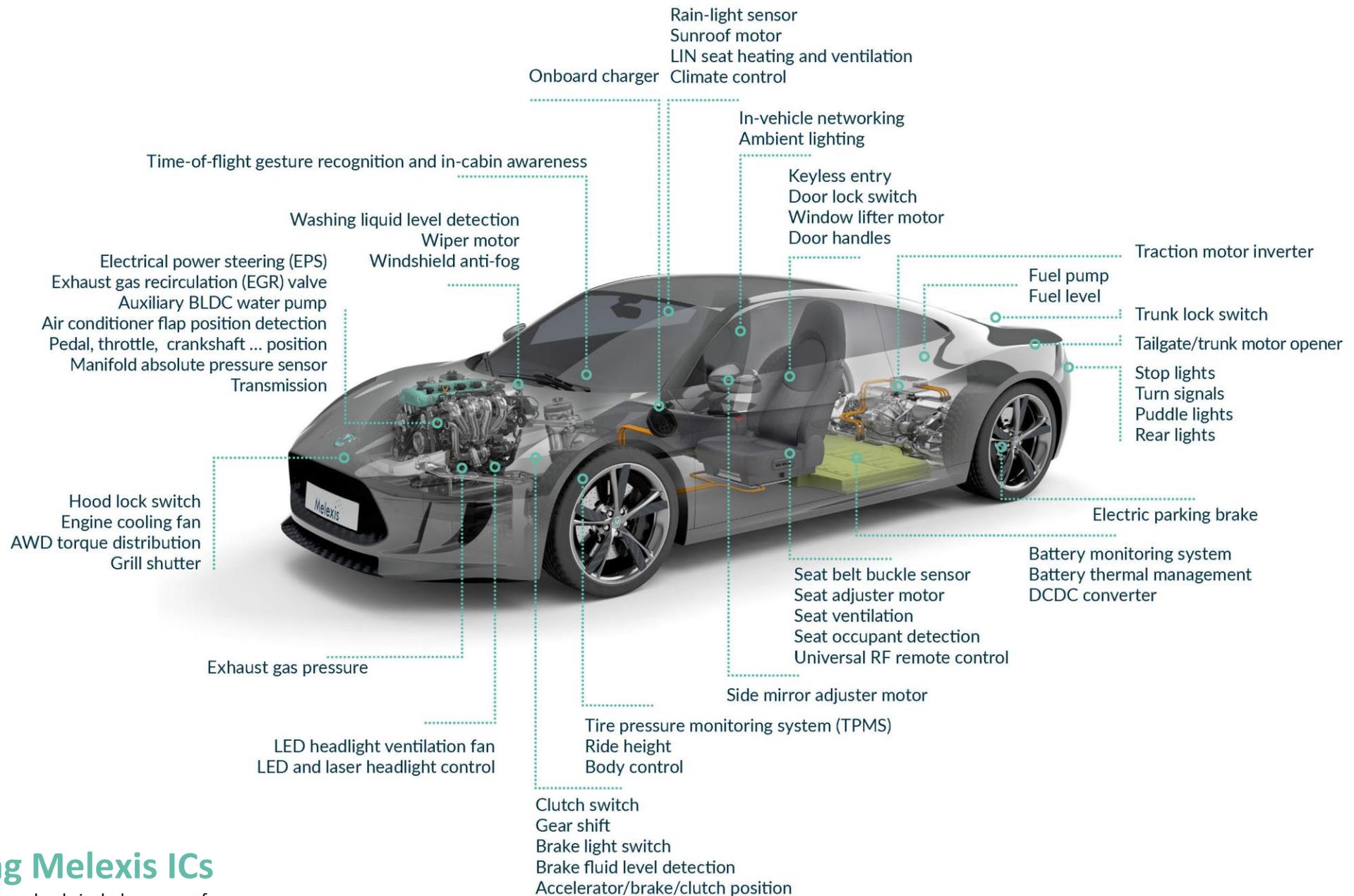
# Melexis supplied > 1.3 billion ICs worldwide in 2020



- Magnetic position sensors • Pressure sensors
- Inductive position sensors • Tire monitoring sensors
- Current sensors • Temperature sensors
- Latch & switch • Optical sensors
- Embedded drivers • Sensor interfaces
- Smart drivers • Embedded lighting



# 13 chips in every new car



## Applications containing Melexis ICs

Disclaimer: Please note this list is not exhaustive and only includes some of the most common applications containing Melexis ICs.

# Over 1500 people on 3 continents



## Sales & Applications

Belgium – Ieper, Tessenderlo  
Greater China – Shanghai, Shenzhen  
France – Grasse, Paris  
Germany – Erfurt, Dresden  
Japan – Yokohama  
USA – Nashua, Detroit, San Jose  
South Korea – Seoul  
Switzerland - Bevaix



## Manufacturing

Belgium – Ieper  
Bulgaria – Sofia  
France – Corbeil-Essonnes  
Germany – Erfurt  
Malaysia – Kuching



## Research & Development

Belgium – Ieper, Tessenderlo  
Philippines – Manila  
Bulgaria – Sofia  
Switzerland - Bevaix  
France – Grasse, Paris  
Ukraine – Kiev  
Germany – Erfurt, Dresden, Düsseldorf  
USA – Nashua

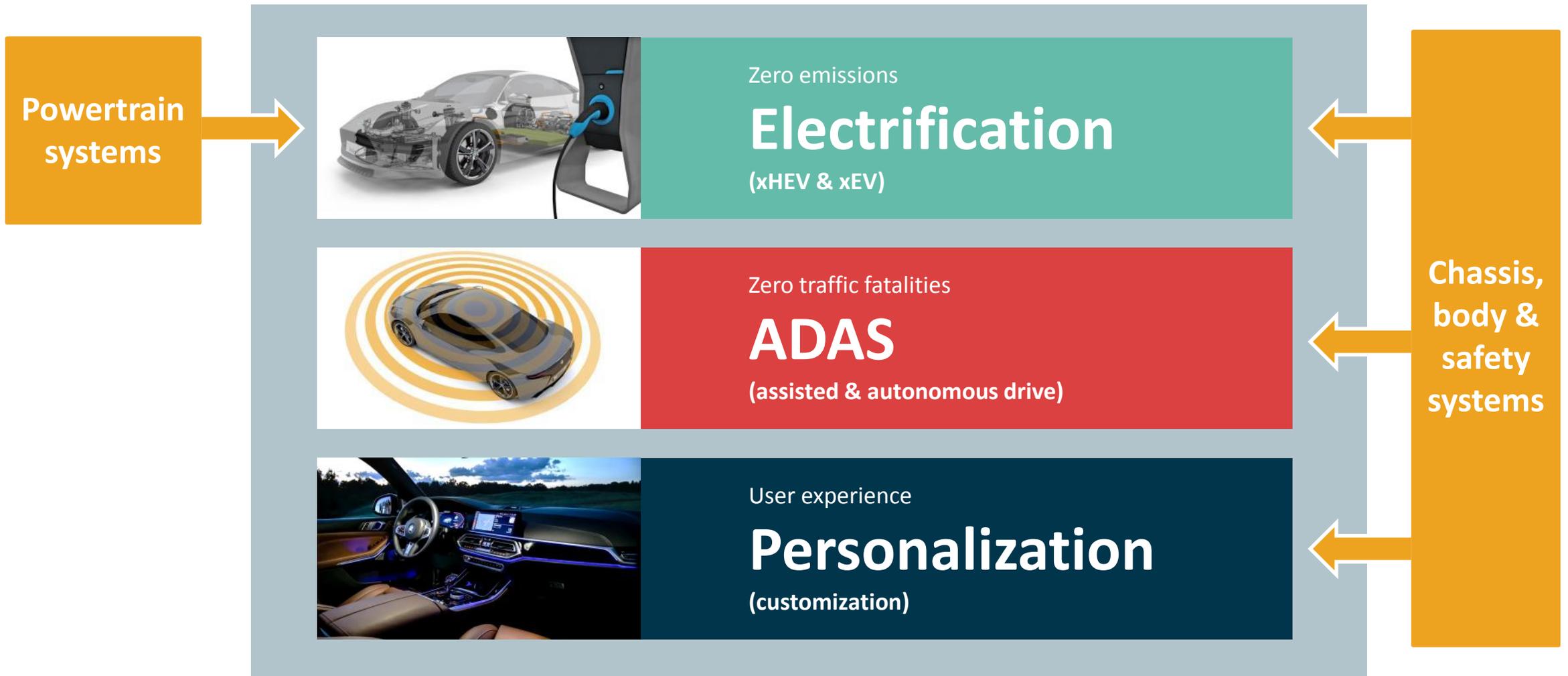


# Melexis vs Automotive Trends

Melexis enables  
**edge sensing & edge driving**

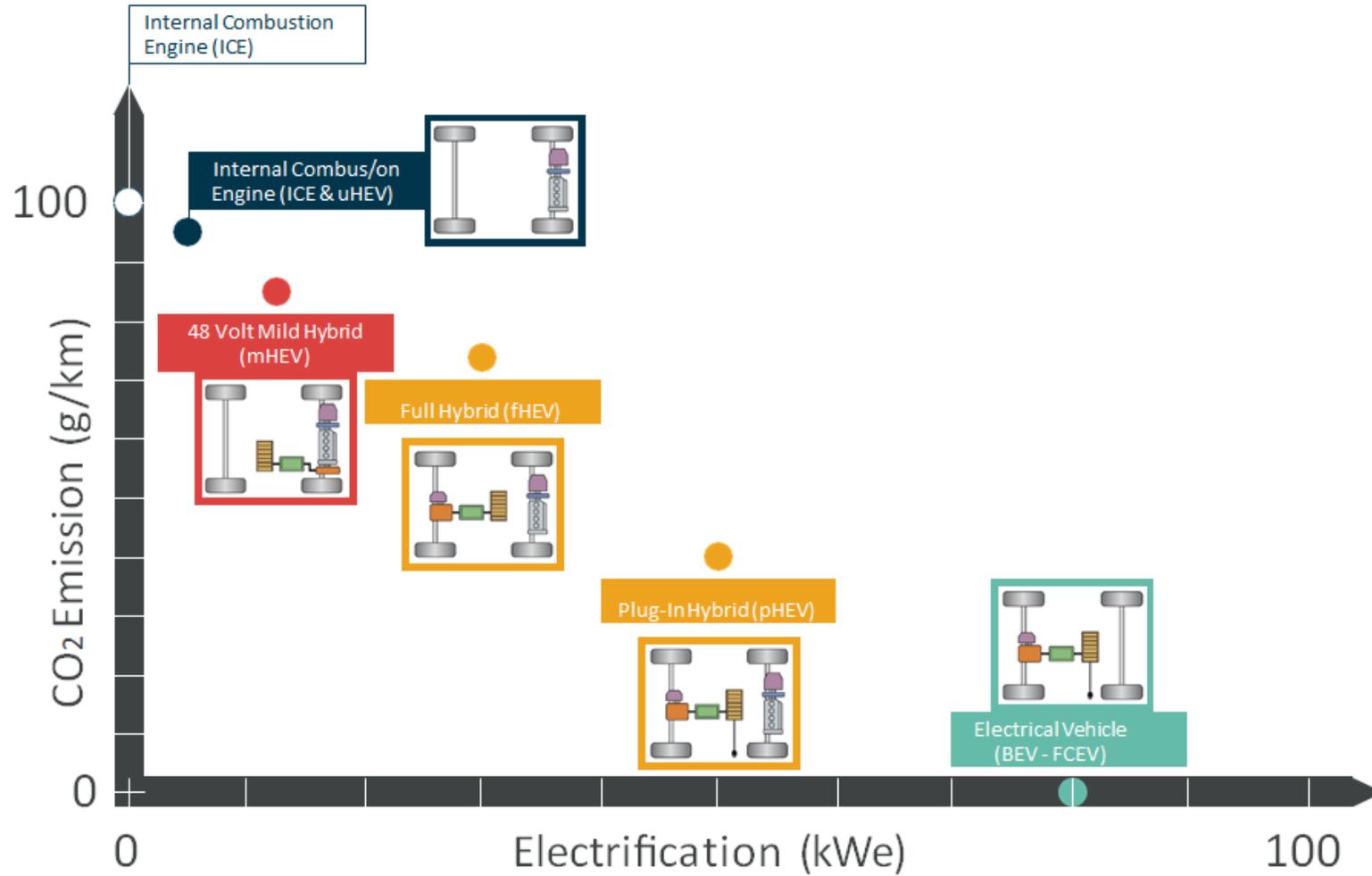
Melexis engineers small, smart  
**Sensing** and **Driving** nodes  
supporting  
in-vehicle edge computing systems

# Melexis vs. automotive trends



# Powertrain Systems

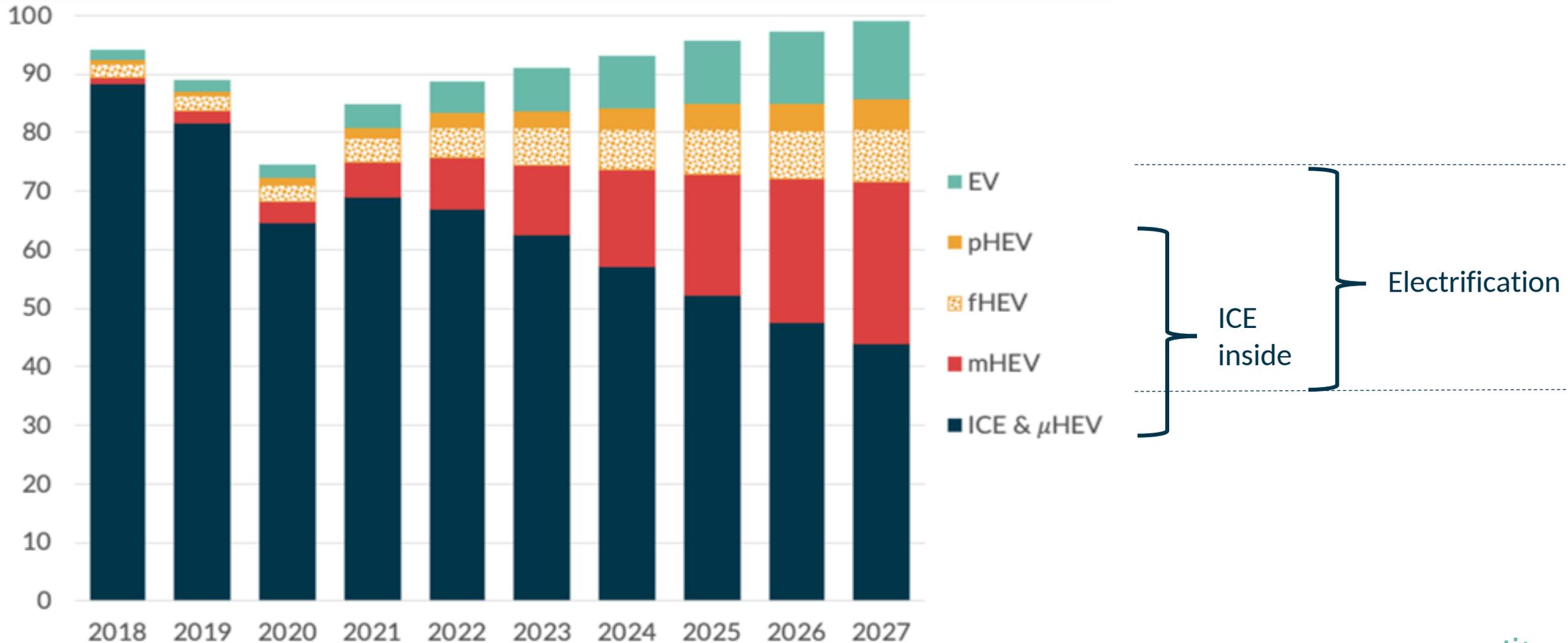
## Levels of Electrification



# Global vehicle production (million units)

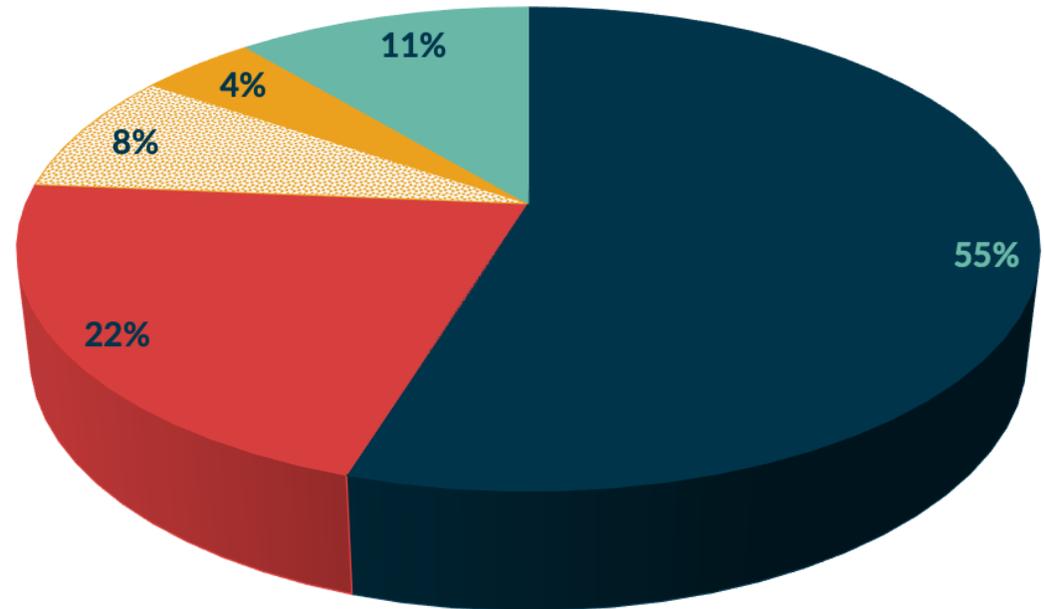
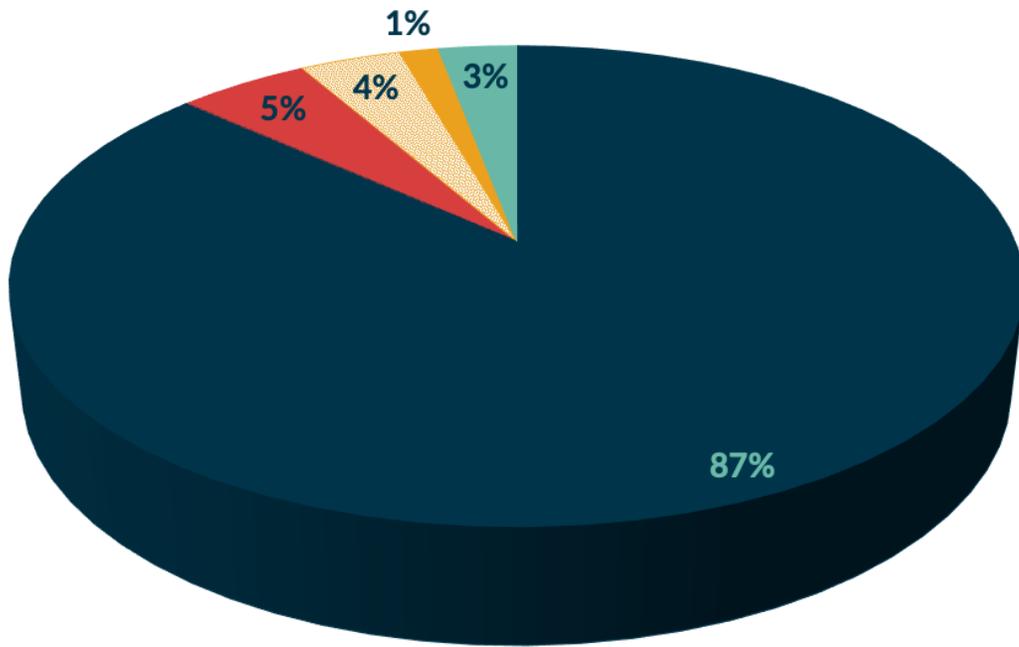


## Electrification – Segmentation – Market Split



# Powertrain split – 2020 & 2025

## Electrification – Segmentation – Market Split



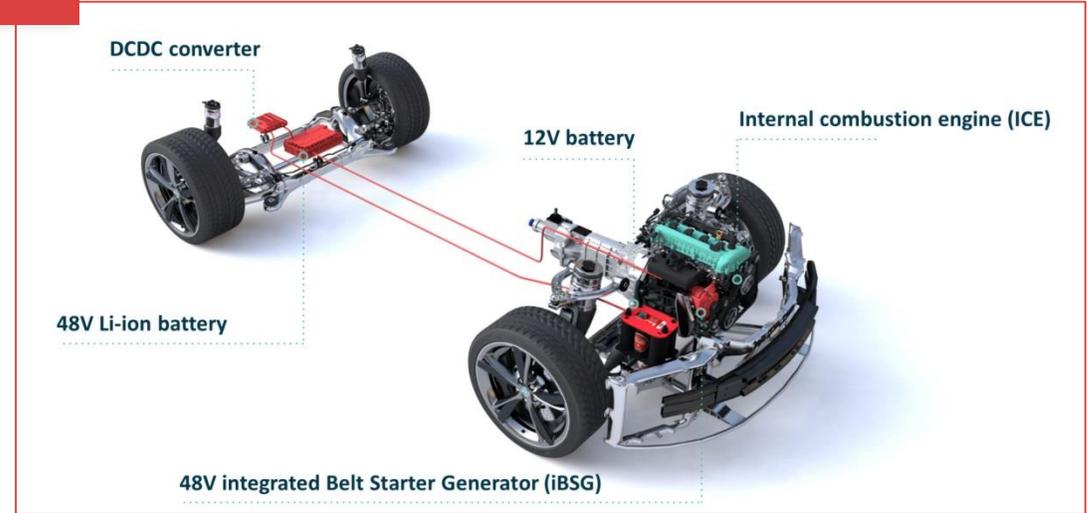
■ ICE &  $\mu$ HEV ■ mHEV ■ fHEV ■ pHEV ■ EV



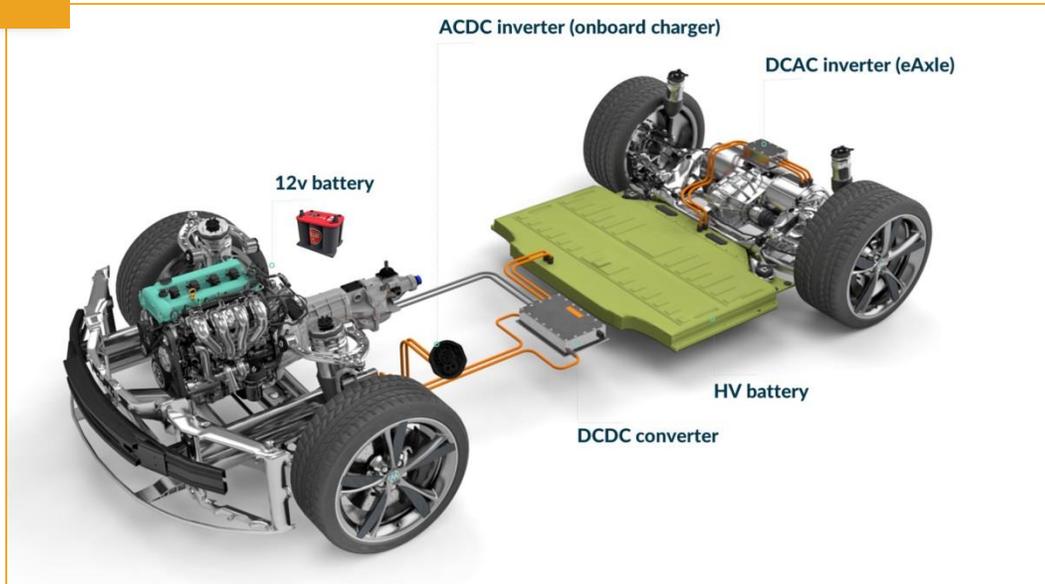
## Internal Combustion Engine (ICE + uHEV)



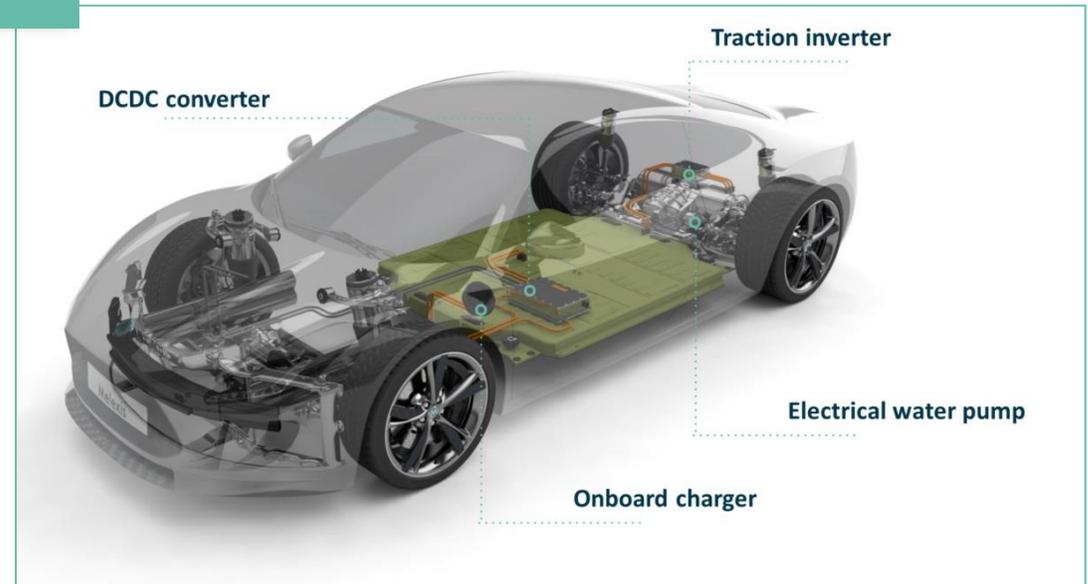
## 48 Volt Mild Hybrid (mHEV)



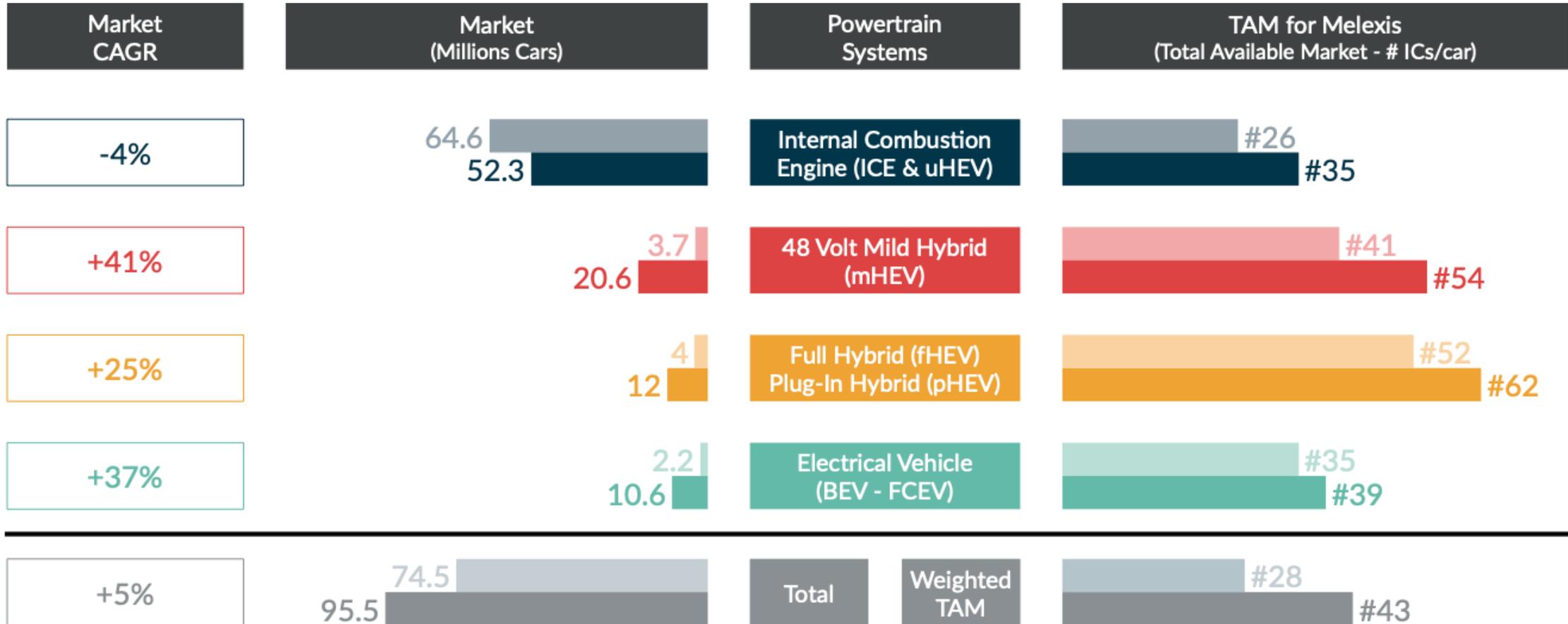
## Full Hybrid (fHEV) - Plug-In Hybrid (pHEV)

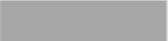


## Electrical Vehicle (BEV – FCEV)



# Powertrain Systems



2020   
2025 

## Chassis

Braking – Steering – Suspension



## Body

Lighting – HVAC - Others



## Safety

(Passive)



Source visuals: BMW

<https://www.autozeitung.de/klimaanlage-auto-wartung-funktion-187651.html>

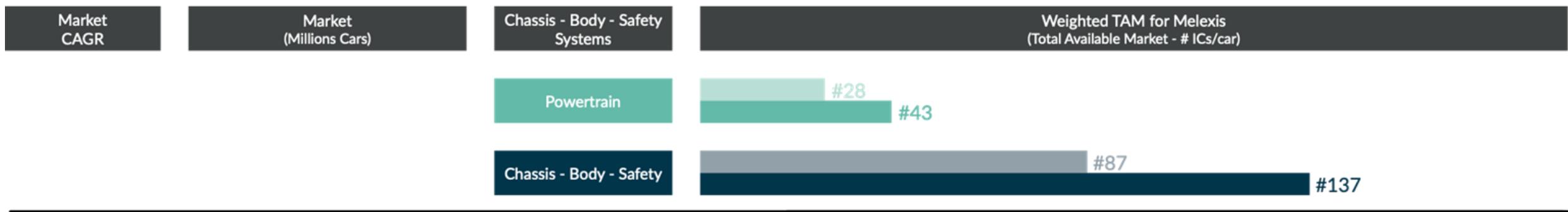
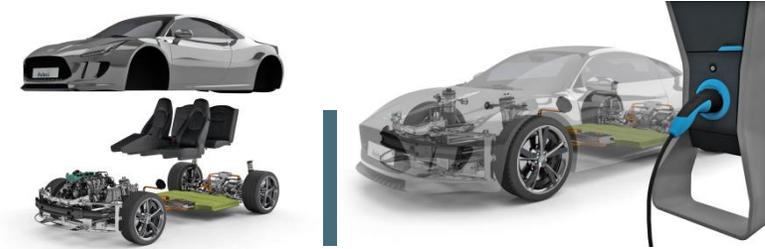
<http://fertyimg.pw/Cremallera-de-direccin-hidraulica-Nissan-Tecnologia-t.html>



# Chassis – Body – Safety Systems



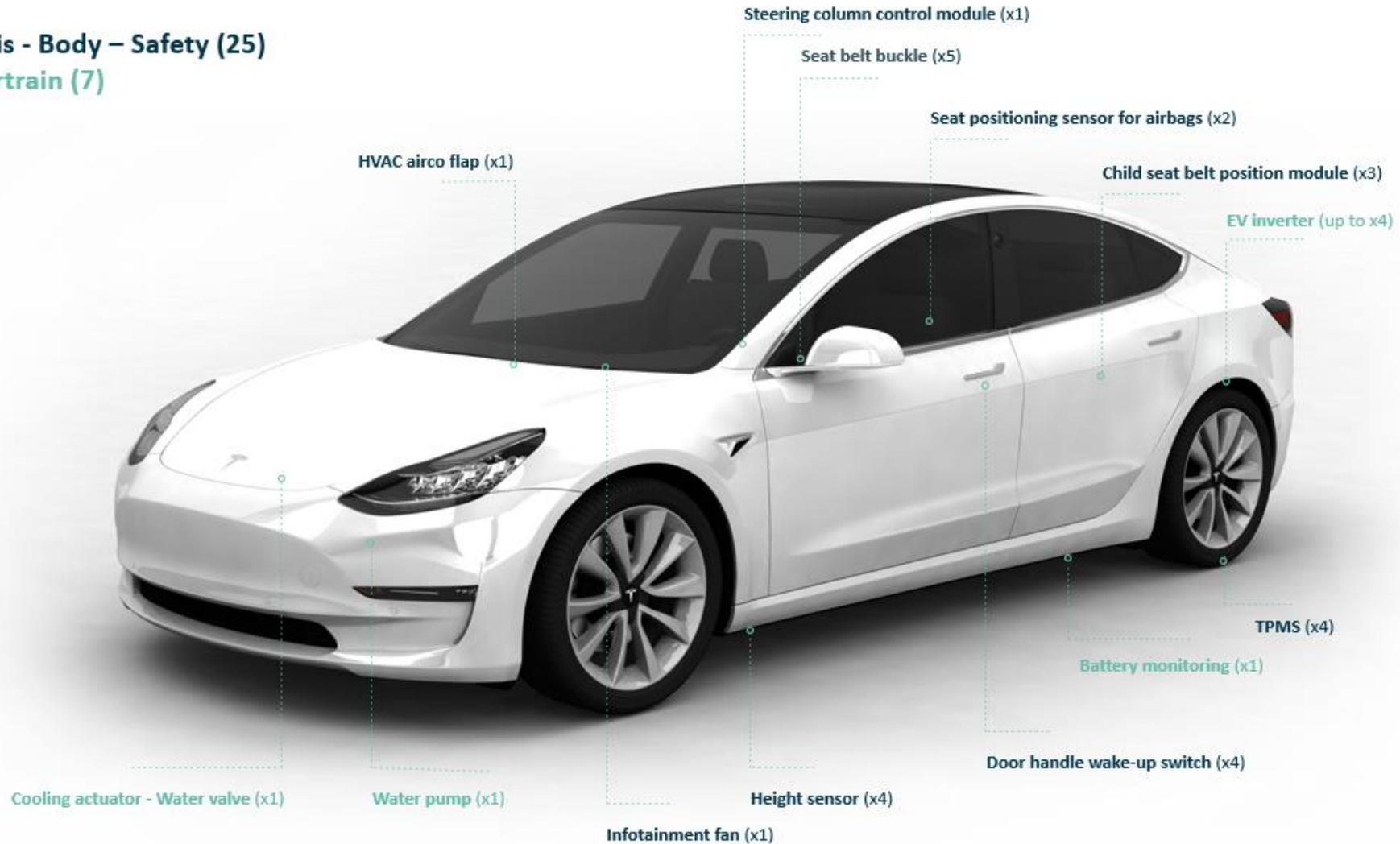
# Melexis in automotive



# Tesla Model 3

\* Chassis - Body – Safety (25)

\* Powertrain (7)



# Melexis beyond automotive

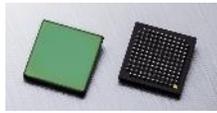
## Sensors & drivers for similar challenges

- White goods – Focus on CO2
- Motorcycles and e-bikes
- Industry 4.0 – Closed loop control
- Drones 
- Health / wellbeing
- Robotics – Focus on autonomy
- Thermal information – People detection
- Environmental imaging
- Industrial position sensing
- Power monitoring & motor control



# Milestones

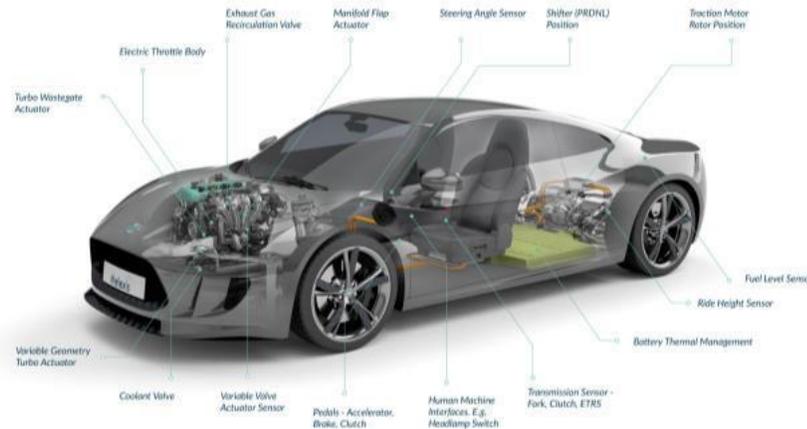
**1 TOF 3D** by Melexis  
**MILLION**  
SENSOR ICs SHIPPED



**1**  
**Triaxis** by Melexis  
**BILLION**  
SENSORS SHIPPED



**SIL** READY  
BY MELEXIS



**2**  
**Melexis**  
**BILLION**  
SWITCHES SHIPPED

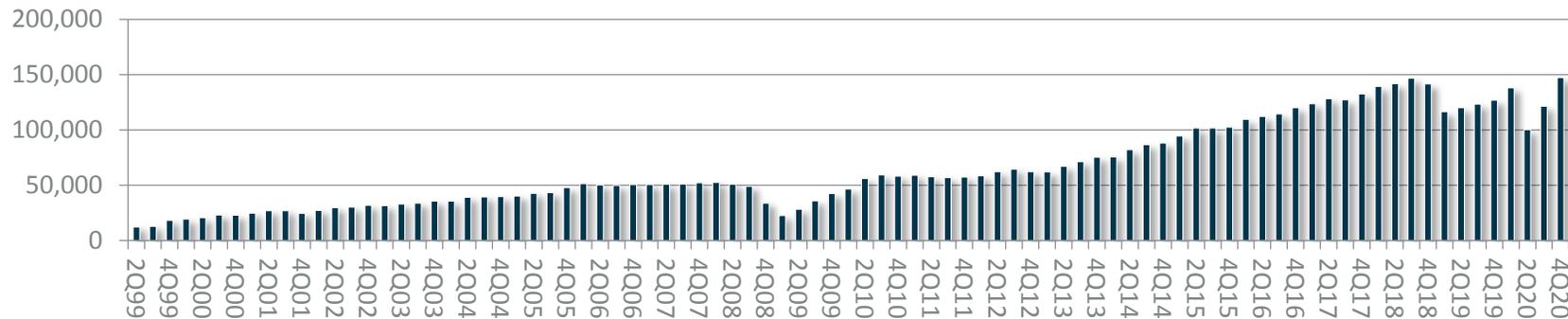


# Evolution financials 2000-2020

## Turnover

Q4 2020: 147.4 mln EUR

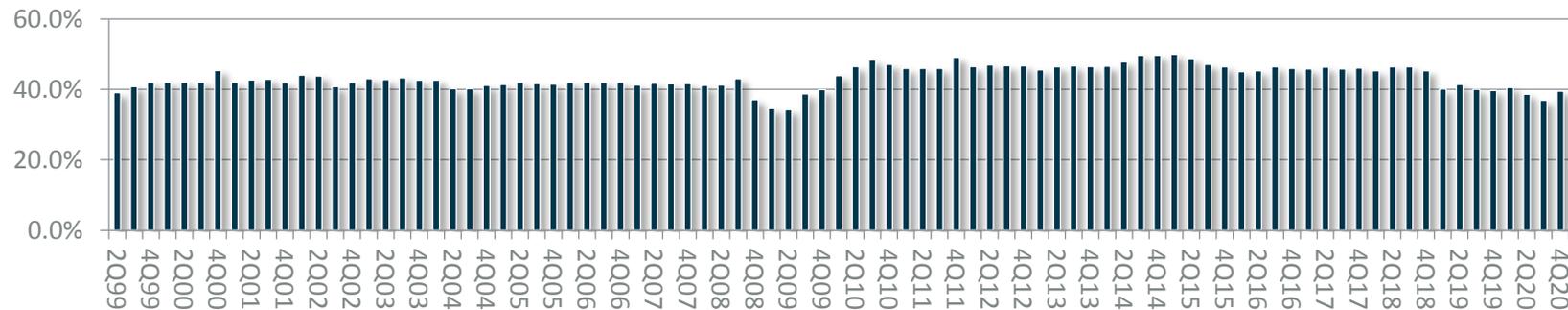
FY 2020: 507.5 mln EUR



## Gross profit margin

Q4 2020: 39.5%

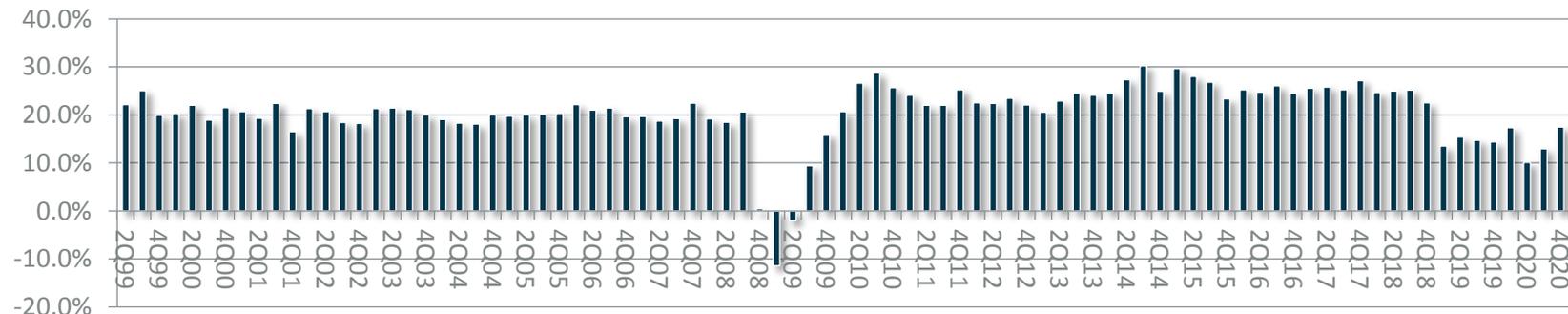
FY 2020: 39.0%



## Operating margin

Q4 2020: 17.5%

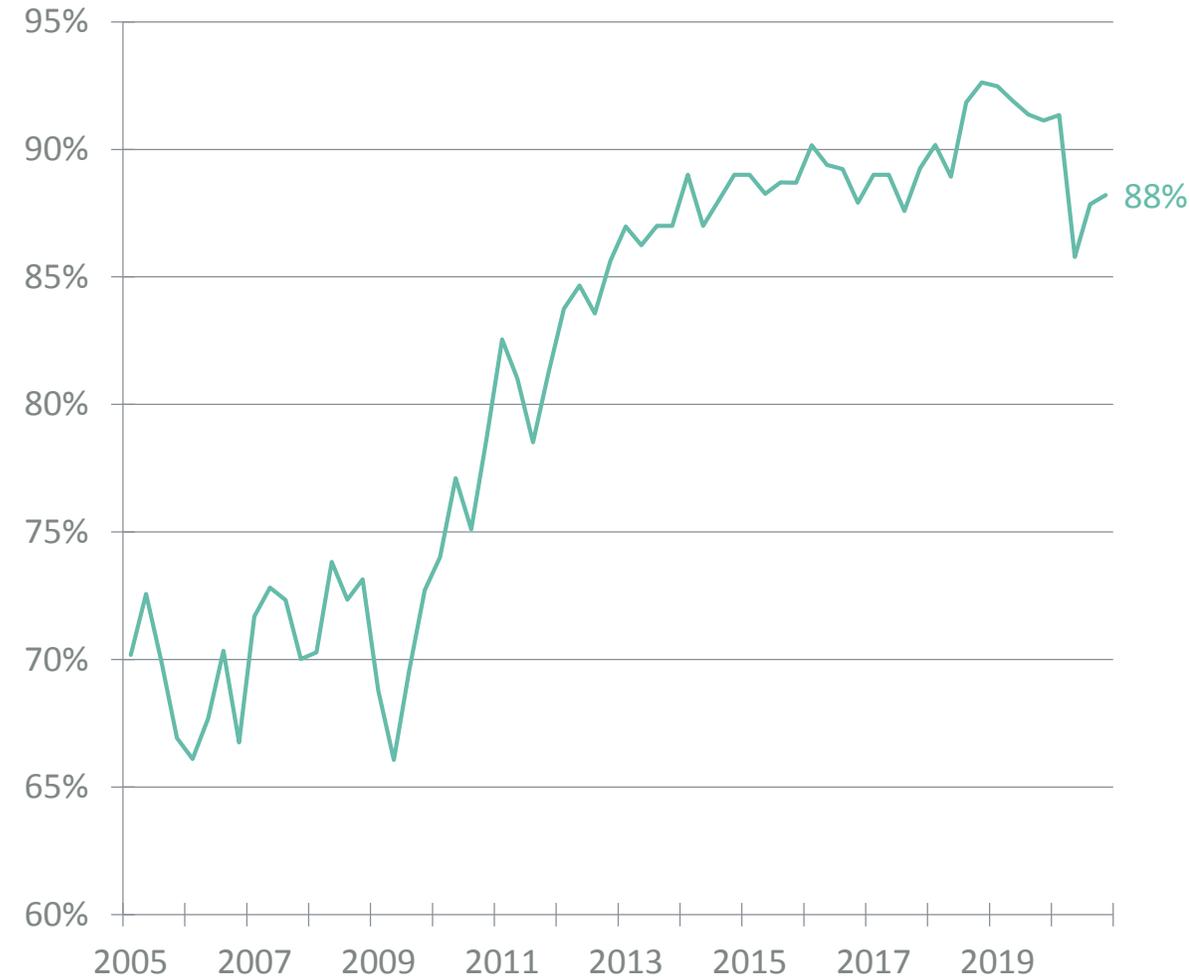
FY 2020: 14.9%



# % ASSP sales



# % automotive sales



# FY 2020 results at a glance

## Sales

507.5m EUR

+4% Y-o-Y

## Gross margin

39.0%

197.8m EUR

+1% Y-o-Y

## Operating result

14.9%

75.5m EUR

+7% Y-o-Y

## Net result

1.72 EPS

69.3m EUR

+15% Y-o-Y

## Oper. cash flow

(before wcap change)

116.9m EUR

-2.3% Y-o-Y

## Net debt

2.9m EUR

## Outlook

Melexis expects sales in the first quarter of 2021 to be in the range of 155 to 160 million euro.

For the full year 2021, Melexis expects sales growth between 15% and 20%, with a gross profit margin around 41% and an operating margin around 19% at the midpoint of the sales guidance, all taking into account a EUR/USD exchange rate of 1.21.

# Profit & loss

## FY 2020 versus FY 2019

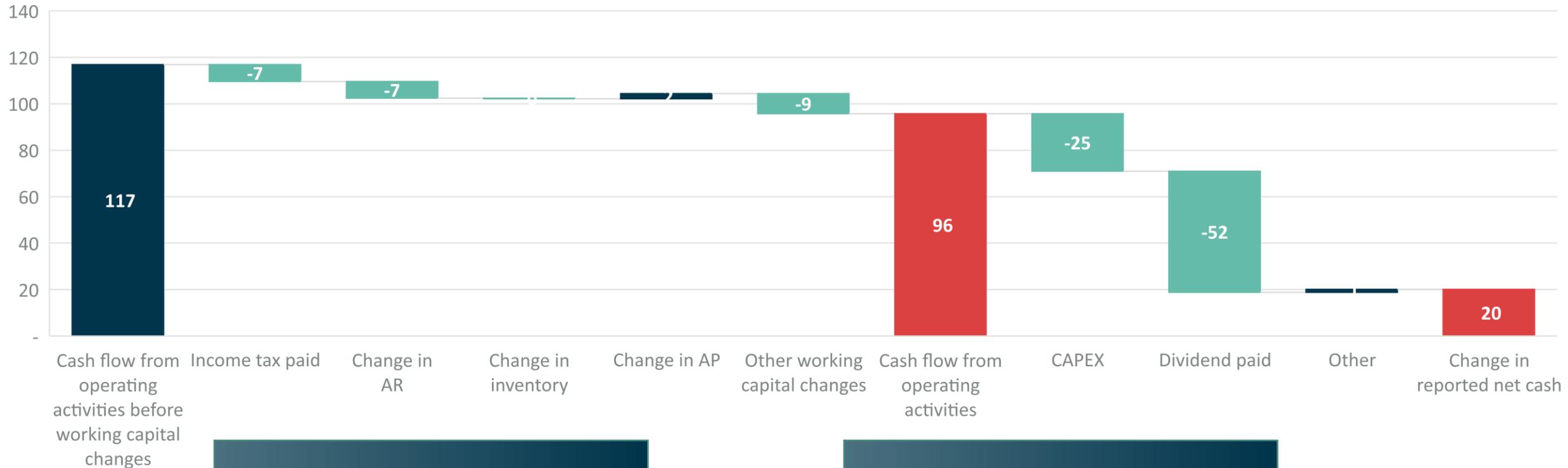
P&L account (in million EUR)	FY 2020	% of Sales	FY 2019	% of Sales
<b>Sales</b>	507.5	100.0%	486.9	100.0%
Cost of goods sold	-309.5	-61.0%	-290.6	-59.7%
<b>Gross margin</b>	198.0	39.0%	196.2	40.3%
R&D	-77.7	-15.3%	-79.6	-16.3%
G&A	-30.9	-6.1%	-30.6	-6.3%
Selling	-13.8	-2.7%	-15.5	-3.2%
Other operating result		0.0%		0.0%
<b>EBIT</b>	75.5	14.9%	70.6	14.5%
Net financial result	0.4	0.1%	-1.4	-0.3%
Income taxes	-6.6	-1.3%	-9.0	-1.8%
<b>Net profit</b>	69.3	13.7%	60.3	12.4%
<b>Earnings per share</b>	1.72		1.49	

# Balance sheet

## Q4 2020 versus Q4 2019 versus Q3 2020

Balance Sheet (in million EUR)	Q4 2020	Q4 2019	Q3 2020
<b>Total assets</b>	433.4	418.6	454.8
<b>Current assets</b>			
Cash	58.9	38.8	78.8
Inventory	123.5	128.5	131.6
A/R Trade	65.1	58.3	63.5
<b>Non-current assets</b>	170.0	181.3	167.8
<b>Shareholders' equity</b>	314.8	299.1	343.4
<b>Interest bearing debt</b>	62.0	62.0	62.0
Long term	62.0	62.0	62.0
Short term	0.0	0.0	0.0

# FY 2020 cash flow

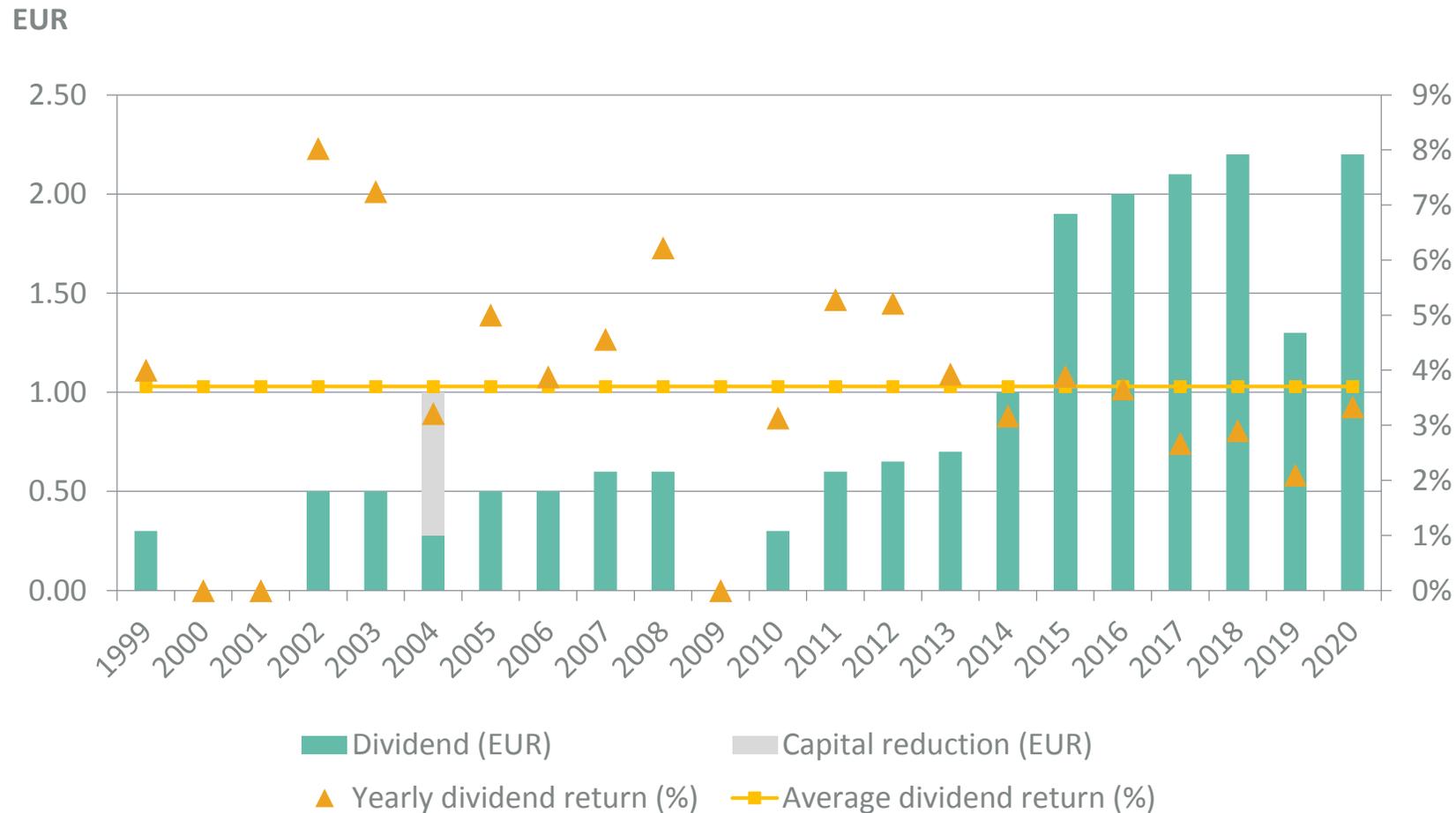


Free cash flow of 71m EUR in 2020 (68m EUR in 2019)

52m EUR dividend paid to the shareholders of Melexis in 2020

# Dividend yield

Based on average share price



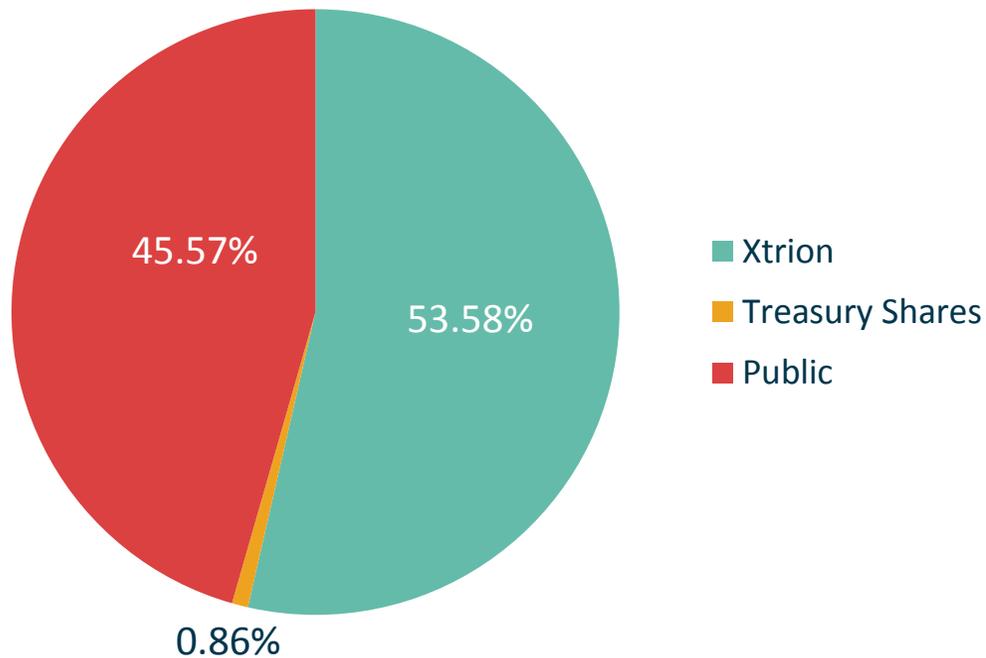
## Gross dividend per share (EUR)

(*) 2004	1.00
2005	0.50
2006	0.50
2007	0.60
2008	0.60
2009	0.00
2010	0.30
2011	0.60
2012	0.65
2013	0.70
2014	1.00
2015	1.90
2016	2.00
2017	2.10
2018	2.20
2019	1.30
(**) 2020	2.20

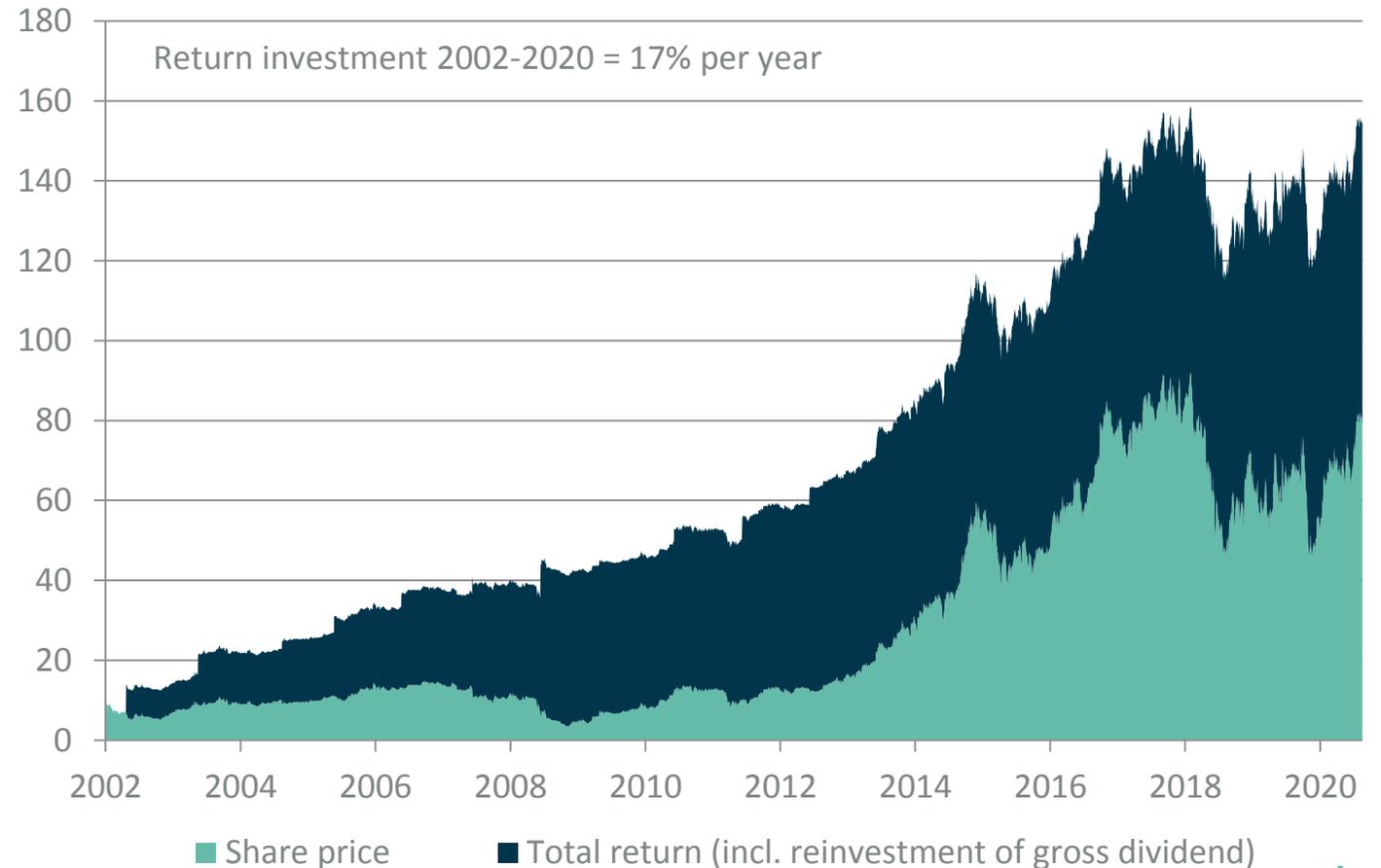
(\*) incl. 0.72 cap.decr  
 (\*\*) 0.90 final dividend payable as from May 14, 2021

# Shareholders structure & shareholder return

## Shareholder structure on 31 Dec 2020



## Shareholder Return 2002-2020



# Some recent product launches – Sense & Drive

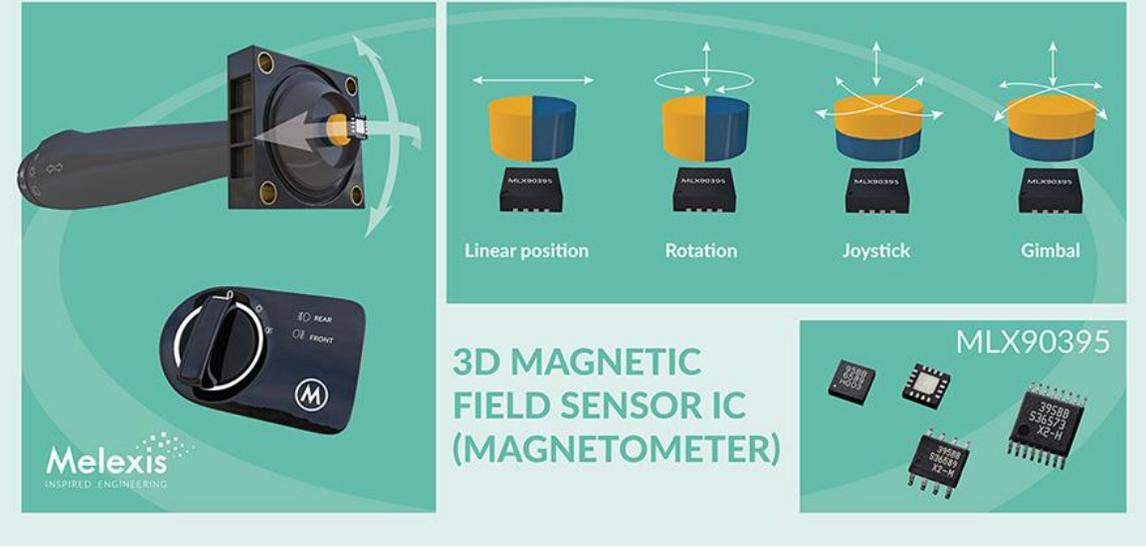


For highest efficiency or lowest acoustic noise on a wide range of fans and pumps up to 35 W

**ALL-IN-ONE FAN- AND PUMP- 1-COIL BLDC DRIVER**

MLX90412

Melexis  
INSPIRED ENGINEERING

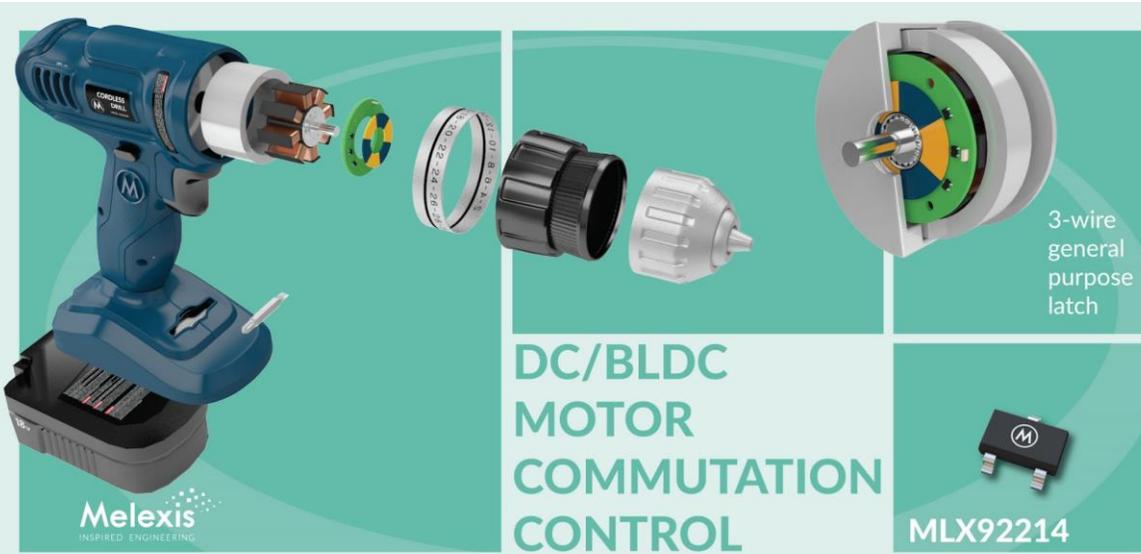


Linear position    Rotation    Joystick    Gimbal

**3D MAGNETIC FIELD SENSOR IC (MAGNETOMETER)**

MLX90395

Melexis  
INSPIRED ENGINEERING



3-wire general purpose latch

**DC/BLDC MOTOR COMMUTATION CONTROL**

MLX92214

Melexis  
INSPIRED ENGINEERING

- Compact application designs
- Enables fast system startup
- Super robust against signal noise

**3-PHASE BLDC FAN & PUMP DRIVER**

MLX80302

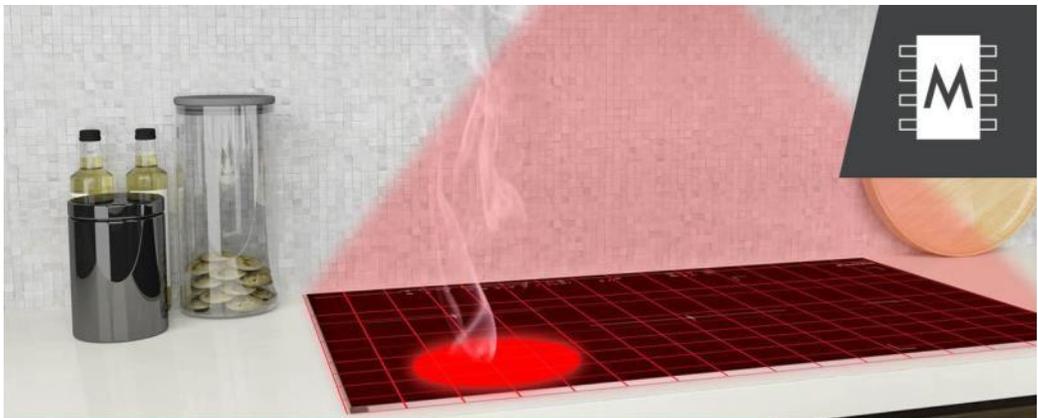
Melexis  
INSPIRED ENGINEERING

# Some recent product launches – Sense & Light



MULTI-CHANNEL LED DRIVER FOR  
HIGH-SPEED LIGHT ANIMATIONS

**Melexis**  
INSPIRED ENGINEERING



MLX90641 THERMAL SENSOR  
ARRAY 16 X 12 PIXELS

**Melexis**  
INSPIRED ENGINEERING

A composite image featuring a woman wearing a white earbud. To her right are four inset images showing different medical sensors: a black wristband, a white handheld device, a blue earbud, and a white finger sensor. Below these is a green box containing the product name and description, and two small images of the MLX90632 sensor chip.

**Melexis**  
INSPIRED ENGINEERING

**MLX90632**  
MINIATURE MEDICAL GRADE  
INFRARED TEMPERATURE SENSOR

A photograph of a car's interior from the driver's perspective. A large, semi-transparent green overlay in the shape of a camera's field of view is centered on the dashboard and seats. The Melexis logo is visible in the bottom right corner of the overlay.

**3D time-of-flight camera  
QVGA**

**Melexis**  
INSPIRED ENGINEERING

# Melexis Investor Relations

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CFO

Geert Reynders  
Investor Relations

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IR Assistant

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+32 (0)13 67 07 79