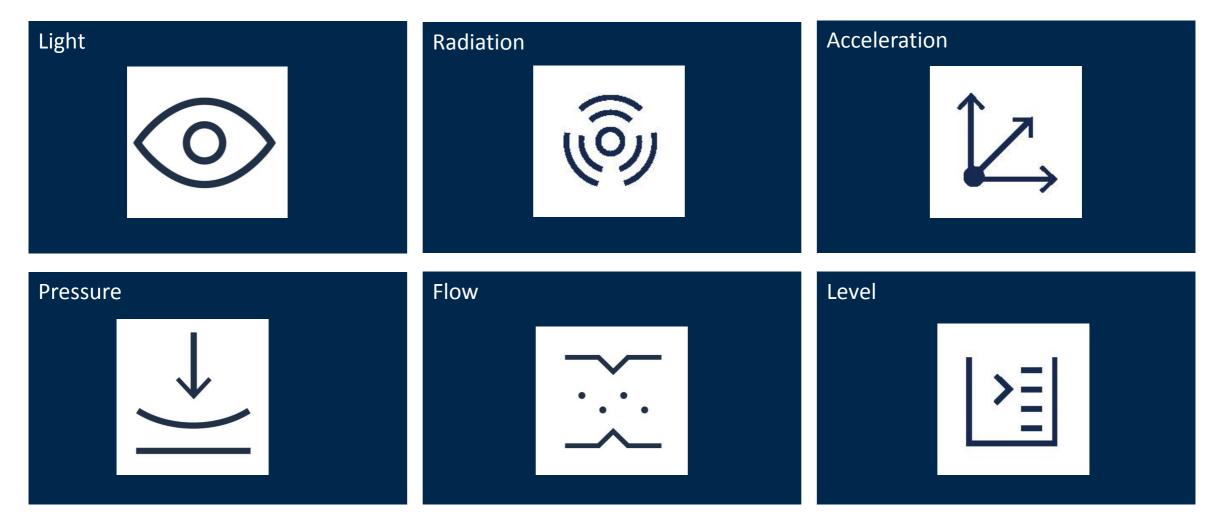
First Sensor 6

WE LEAD THE FUTURE

COMPANY PRESENTATION

OUR COMPETENCE Pattern recognition is our very first core competence.

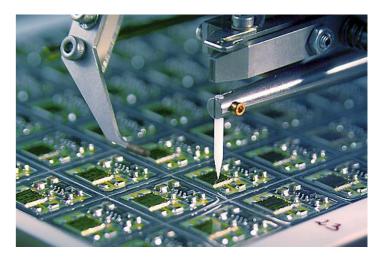


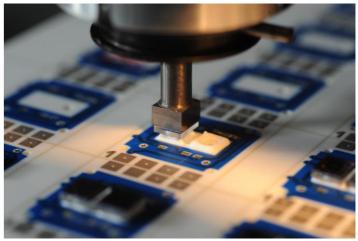
OUR COMPETENCE Semiconductor production puts this competence into products.



OUR COMPETENCE Microelectronic technology comprises our second core competence.

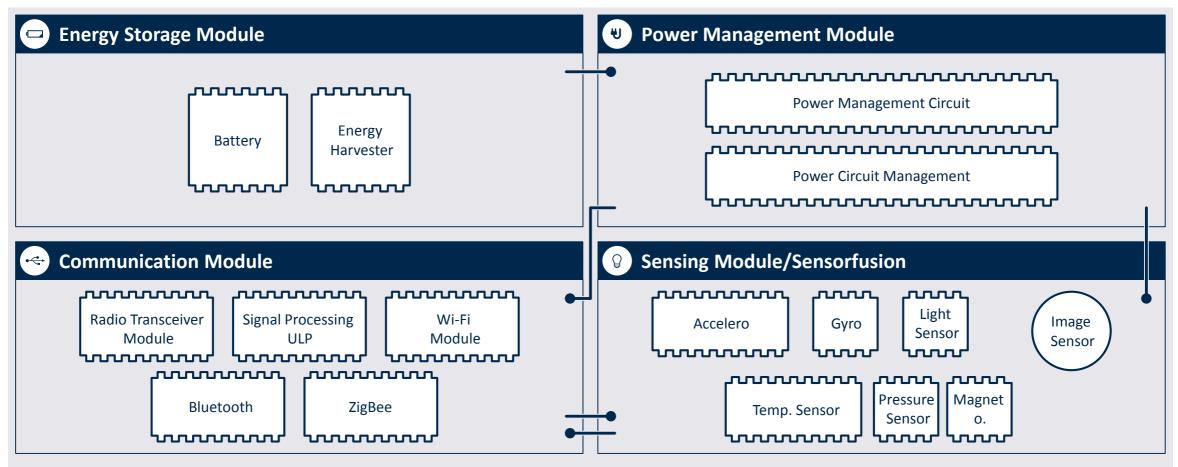






OUR COMPETENCE

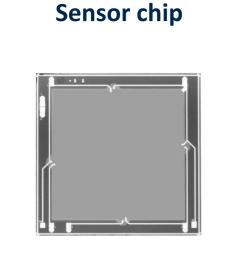
We link our two competences in order to design sensor systems.



Form factor

First Sensor (6)

OUR COMPETENCE Thereby, we cover the entire value chain of sensor technology.



- Silicium based
- converts physical parameters into electrical signals



 Connecting microelectronic and non-electronic micro components to a housing

Detect



- Consists of a sensor chip, a housing and electronics
- The measurement signal can be calibrated



- Measures and preprocesses data
- communicates with other systems

Detect & Understand

OUR PRESENCE We grow in our core market as well as in high potential sales regions.



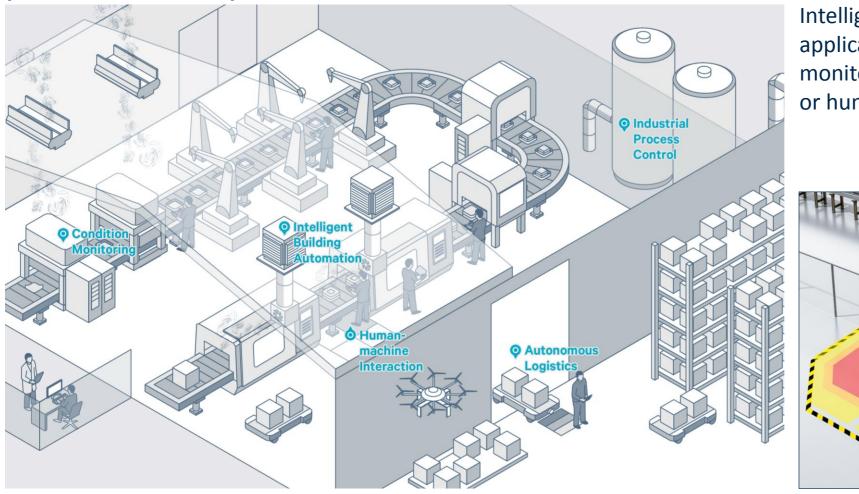


OUR PRESENCE We focus on the growth markets Industrial, Medical and Mobility.



OUR MARKETS

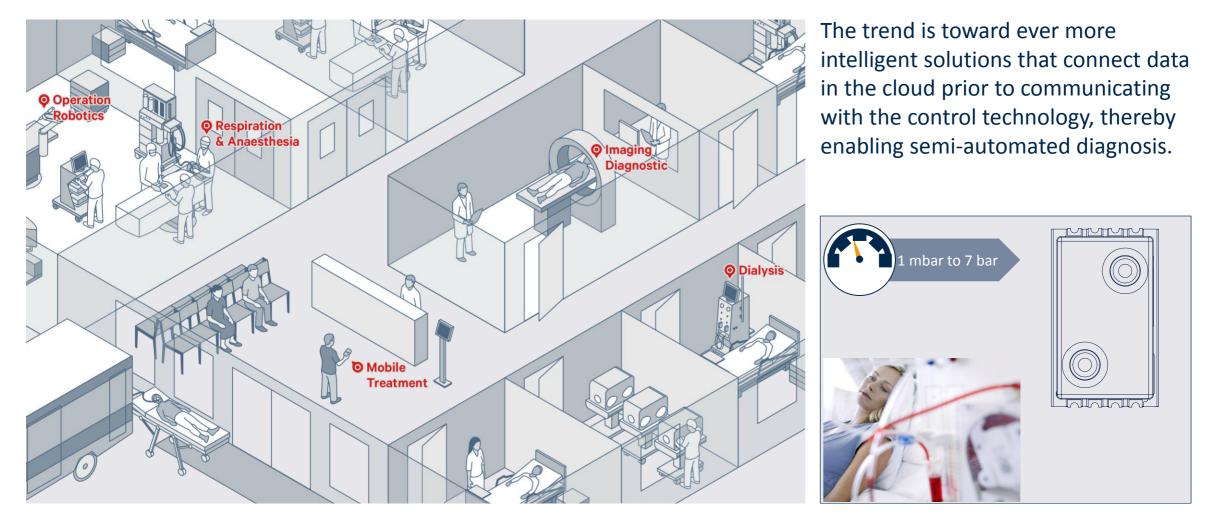
The industry needs sensors for autonomous interaction between products and processes.



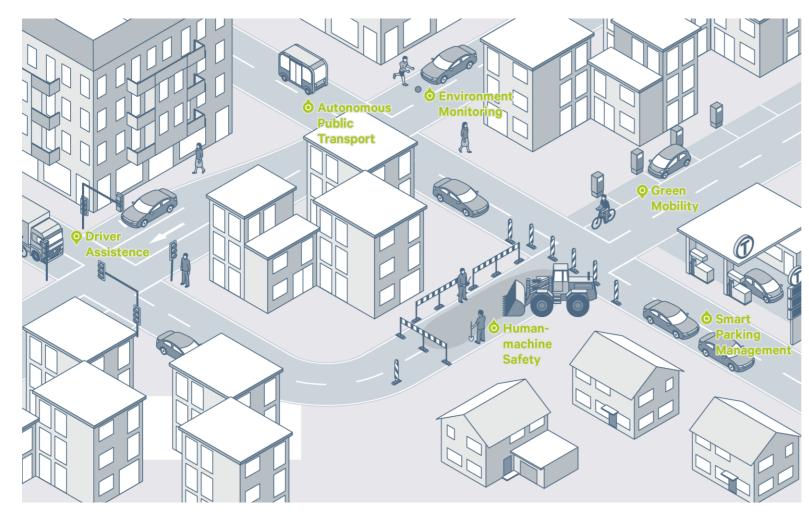
Intelligent sensor systems control applications such as condition monitoring, predictive maintanance or human-machine collaboration.



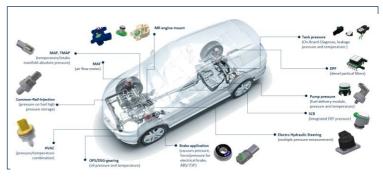
OUR MARKETS The medical market is characterized by miniaturization & digital health.

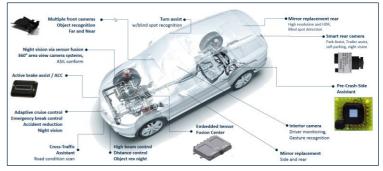


OUR MARKETS The mobility market is driven by a new idea of transportation.



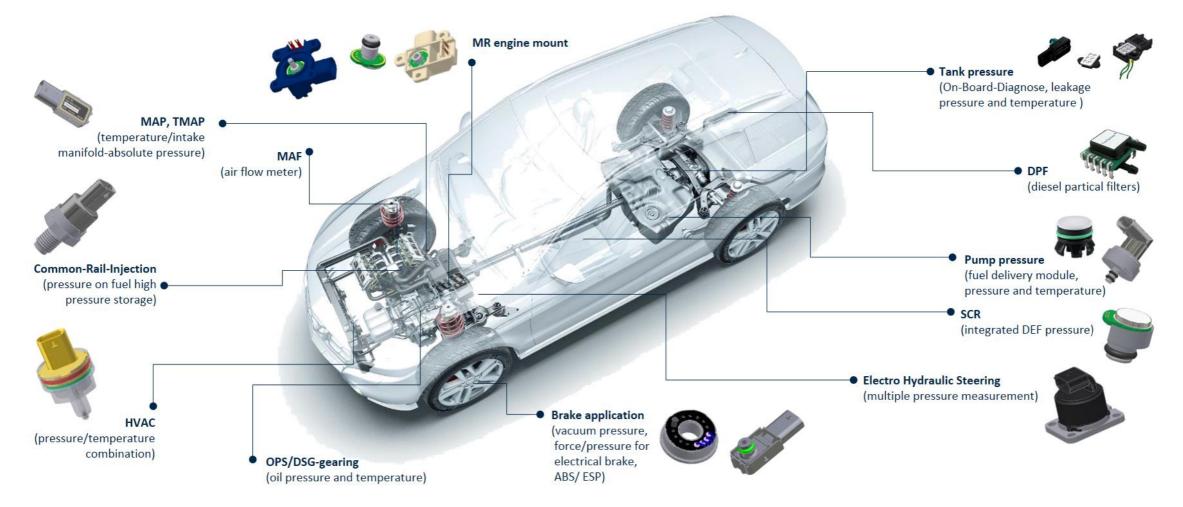
The trend towards partially and fully autonomous vehicles is possible only thanks to sensor-based driver assistance systems.





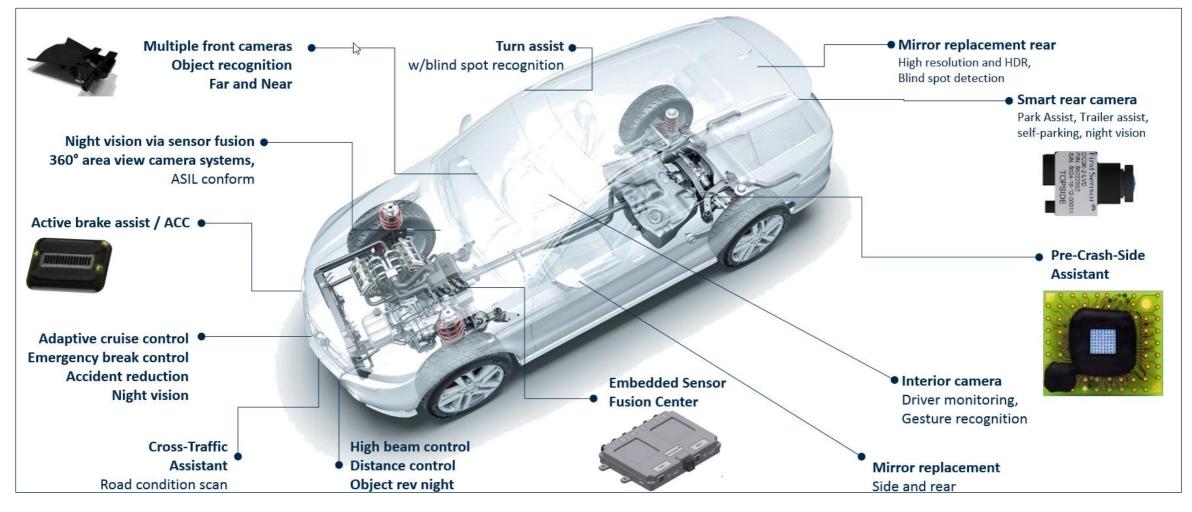
OUR MARKETS

Pressure sensors are important for driver assist systems.

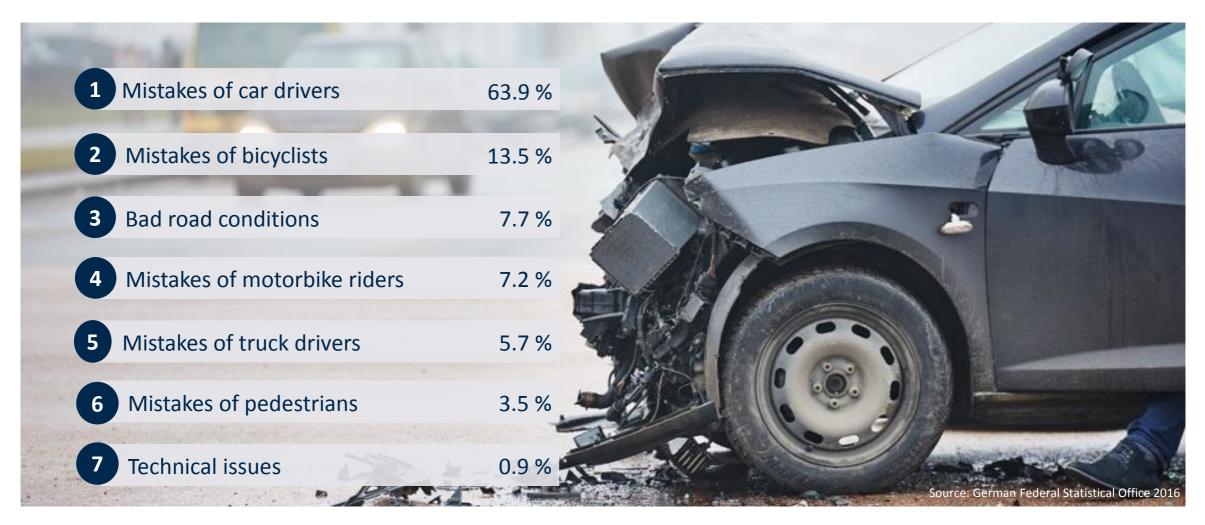


OUR MARKETS

Optical sensors are irreplaceable for autonomous driving.



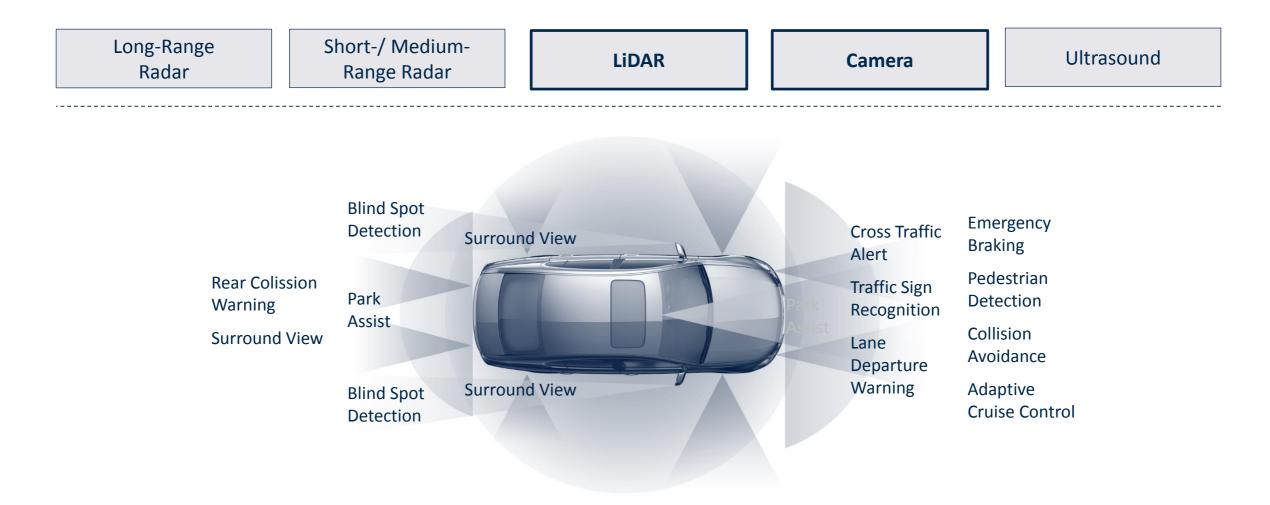
Main reason for accidents are preventable human mistakes.



Therefore cars become more and more autonomous.

Autonomous Levels	Level 1	Level 2	Level 3	Level 4	Level 5	
	Assisted Driving	Partly Automated	Highly Automated	Fully Automated	Driverless	
Fuctionality	Active Cruise Control (ACC) Lane departure warning system (LDWS)	Lane Keep Assist (LKA) Park Assist (PA)	Automatic Emergency Brake (AEB) Driver Monitoring (DM) Traffic Jam Assist (TJA)	Autopilot on Highway (AP)	Autopilot everywhere	
Sensors	+ Ultrasonic Radar (long range) Front Camera	+ Surround Camera	+ + Radar (short range) Driver Camera LIDAR	SENSOR Fusion	SENSOR Fusion	

LiDAR and Cameras are irreplaceable for autonomous cars.

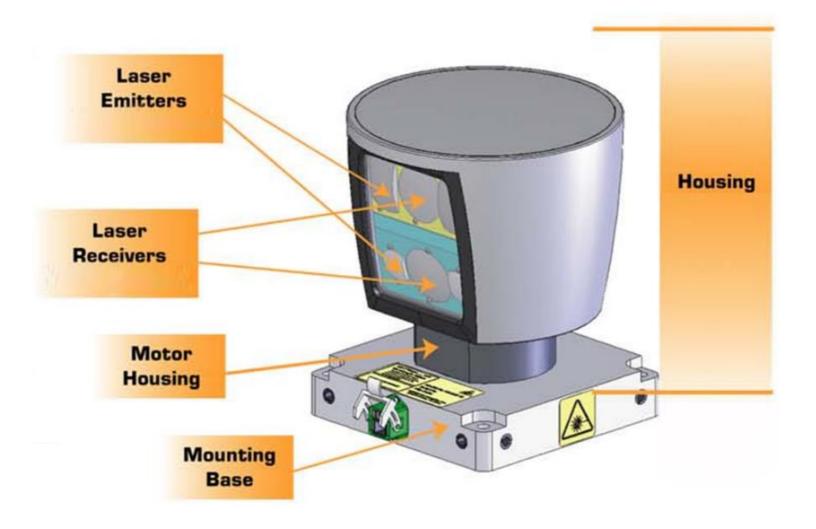


They provide a good detection performance and a safe surround view.

				Velockyne	5					
On Board Sensor Capability		(Det	DAR ection & nging)	Camera (Monitoring & classification)	(D	RADAR etection & ranging)	Ce	2X & Ilular* prmation)	Map & Location (Information)	
Detection	Traffic objects	Car/Trucks	*	*	*	*	* * *	*		
1		Motorcycle	*	*	*	*	*	*		
		Bicycle	*	*	*	*	-	*		
		Pedestrian	*	* *	*	*		*		
		Animal	*	*	*					
		Debris	*	*	*					
	Infrastructure traffic constraints	Road marking	*		* *					\star \star
		Traffic signs			* *					\star \star \star
		Traffic lights			* *			*	\star \star	*
	Path/Road structure	Curve	\star		*					
		Guard rails	\star	*		*	*			
		Wall/Obstacle	*	*		*	*			
			•			Dynamic 🗌				Static
	360° View		*	\star \star	$\star \star \star$					
Robustness		Rain/Snow	*	*	*	*	* * *	*	\star \star	$\star \star \star$
		Fog				*	* * *	\star	\star \star	$\star \star \star$
		Night	*	\star \star		*	* * *	*	* *	* Depends on coverage

* Depends on coverage

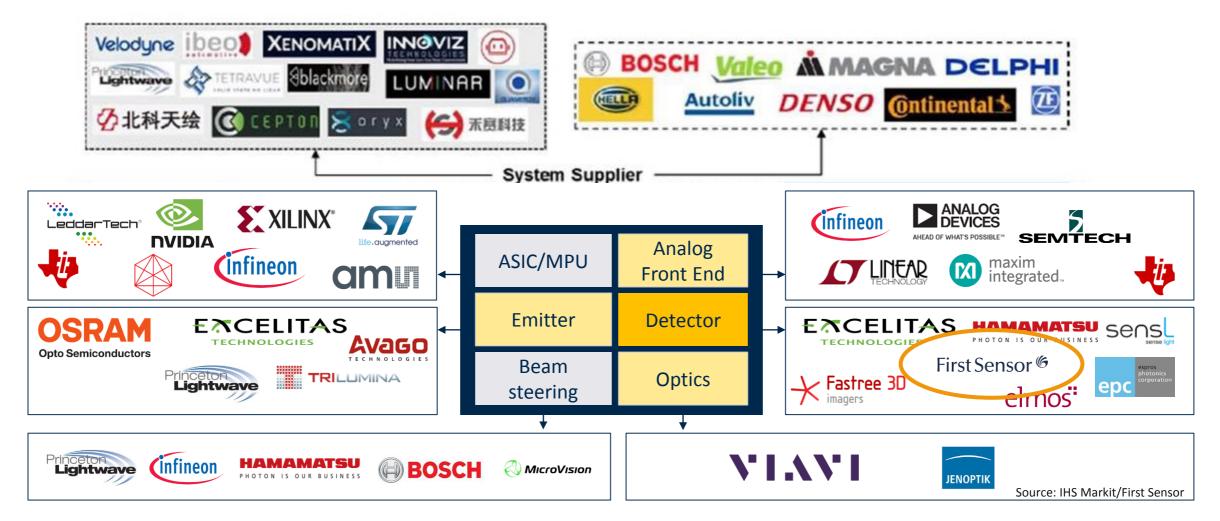
GROWTH DRIVER AUTONOMOUS DRIVING In LiDAR systems different components work hand in hand.



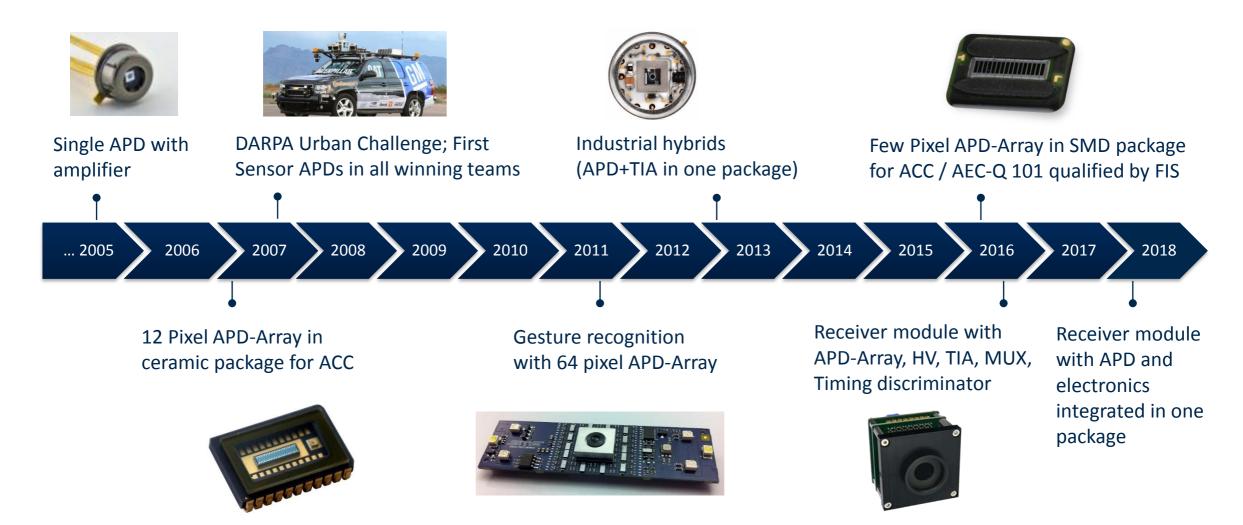
First Sensor 6

Source: Velodyne

First Sensor is an important supplier for the detectors in LiDAR systems.



With our APD we have captured a leading share for more than 10 years.



GROWTH DRIVER AUTONOMOUS DRIVING This advantage drives automotive and industrial applications.





- Safety, comfort and cost reduction infrastructure drive development of partly or fully autonomous vehicles
- First adaptation: special vehicles
- Large volume: passenger car



- Mix of mature and emerging applications
- Industrial applications include
 - \rightarrow Unmanned guided vehicles UGV
 - ightarrow Security scanners
 - \rightarrow Mapping applications
 - → Range finding (point measurement)

STRATEGIC PERSPECTIVE FOR PROFITABLE GROWTH

OUR STRATEGY FOR PROFITABLE GROWTH We generate and utilize economies of scale in 4 dimensions.



First Sensor (%

OUR STRATEGY FOR PROFITABLE GROWTH We generate and utilize economies of scale in 4 dimensions.



First Sensor (%

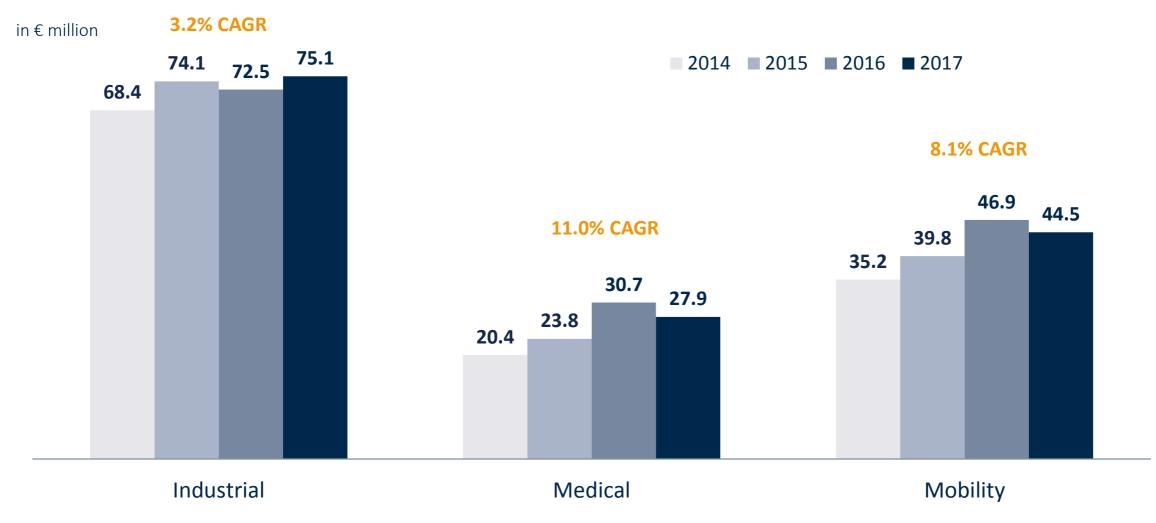
DIMENSION 1: CLEAR FOCUS ON OUR TARGET MARKETS Our target markets are growth markets







DIMENSION 1: CLEAR FOCUS ON OUR TARGET MARKETS We participate in this market growth

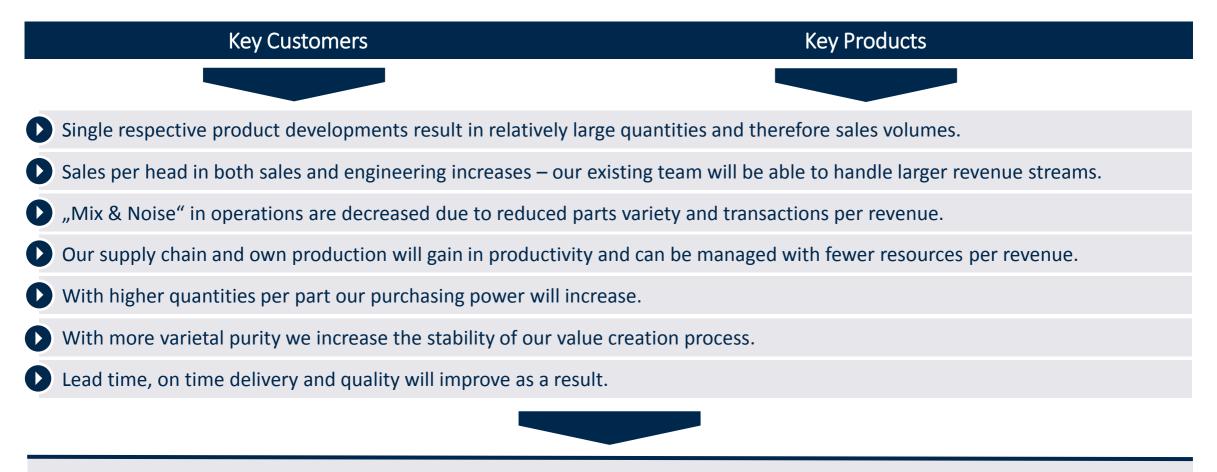


OUR STRATEGY FOR PROFITABLE GROWTH We generate and utilize economies of scale in 4 dimensions.



First Sensor (6)

DIMENSION 2: CLEAR FOCUS ON KEY CUSTOMERS & PRODUCTS Why is this efficient?

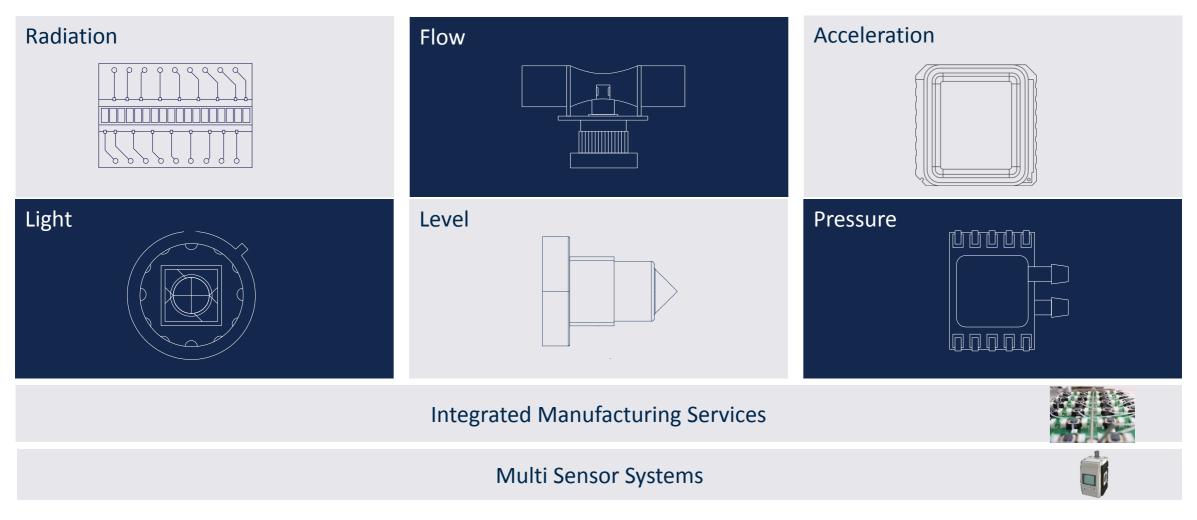


Our growth becomes more scalable and our profitability increases.

OUR STRATEGY FOR PROFITABLE GROWTH We generate and utilize economies of scale in 4 dimensions.



DIMENSION 3: CLEAR FOCUS ON FORWARD INTEGRATION We base our forward integration initiatives on clear product roadmaps.

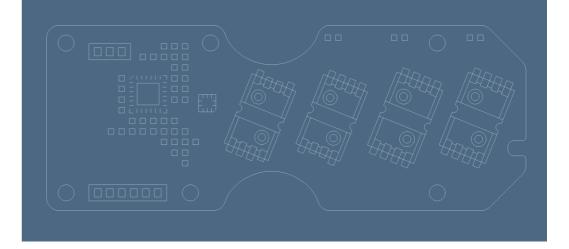


First Sensor (6)

DIMENSION 3: CLEAR FOCUS ON FORWARD INTEGRATION One example is a multi sensor system for HVAC applications





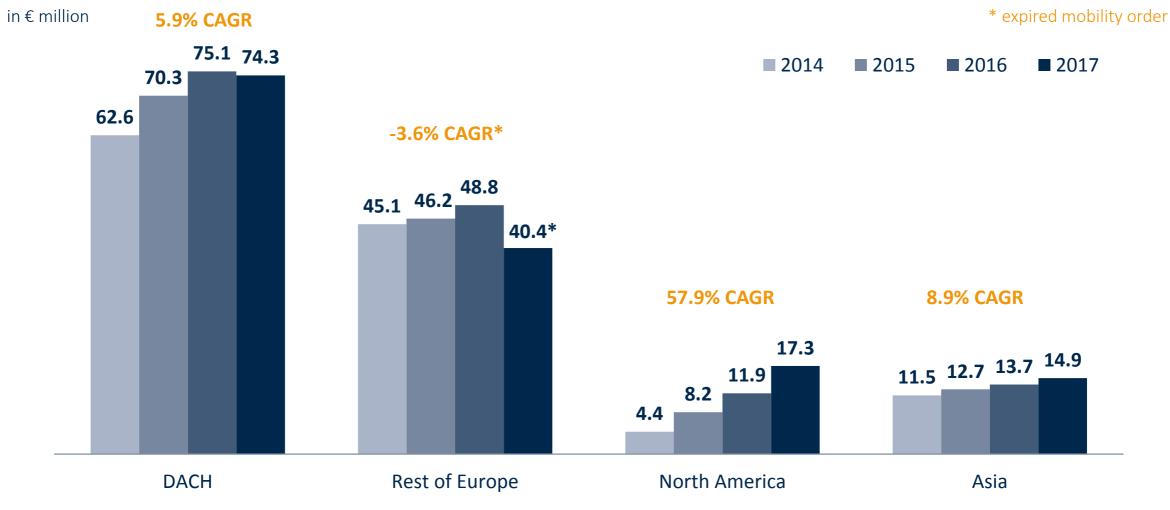


OUR STRATEGY FOR PROFITABLE GROWTH We generate and utilize economies of scale in 4 dimensions.



First Sensor (%

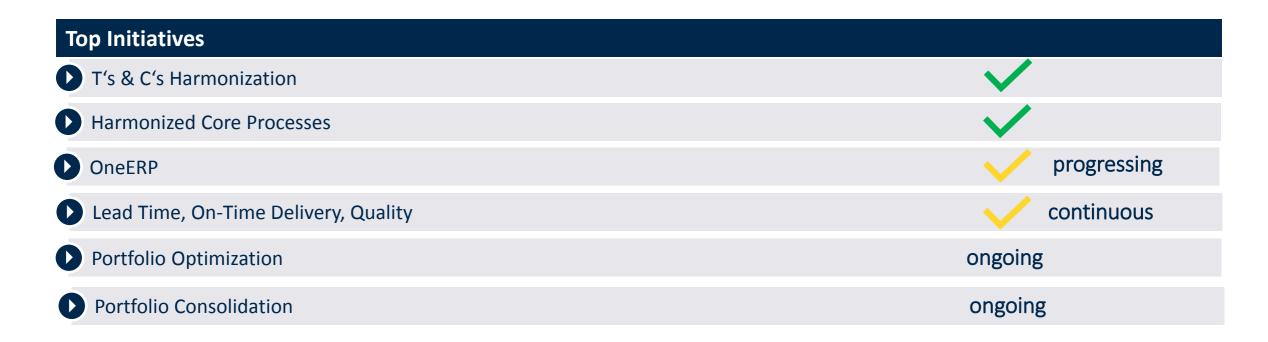
DIMENSION 4: CLEAR FOCUS ON INTERNATIONALIZATION We generated further growth in our key sales regions



OUR STRATEGY FOR PROFITABLE GROWTH We generate and utilize economies of scale in 4 dimensions.



THE FUNDAMENT: FOCUS ON OPERATIVE EXCELLENCE Our current core initiatives

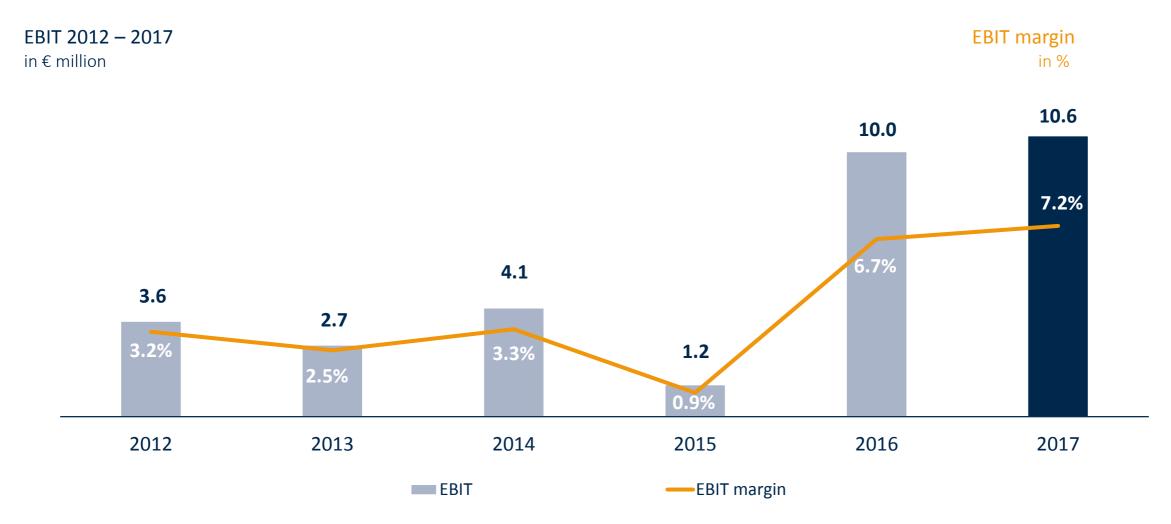


FINANCIAL KEY FIGURES

FINANCIAL KEY FIGURES We are clearly on a path of growth

sales in € million * Guidance 2018 150-160* 150.1 147.5 137.7 124.0 111.9 108.5 65.1 45.2 38.5 37.0 32.6 30.2 16.0 13.8 10.7 11.6 12.0 5.7 3.0 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 Going Acquisition Acquisition Foundation Acquisition Acquisition All companies merge Launch Public Lewicki Micro-Microelectronic under the umbrella of Silicon Micro First Sensor **Sensortechnics** OneERP electronic GmbH **Packaging Dresden** Sensors GmbH Technology GmbH & MEMSfab the First Sensor brand GmbH GmbH GmbH

FINANCIAL KEY FIGURES To strengthen our profitability is just as important as sales growth



FINANCIAL KEY FIGURES Q1 sales with € 34.5 million on level of previous year



Comments

Production recorded decreased output due to the introduction of a new ERP system for company management.

As a result the booked order volume was not produced in full.

This is also evident in our order backlog, which at €97.3 million is €4.8 million up on the fourth quarter of 2017.

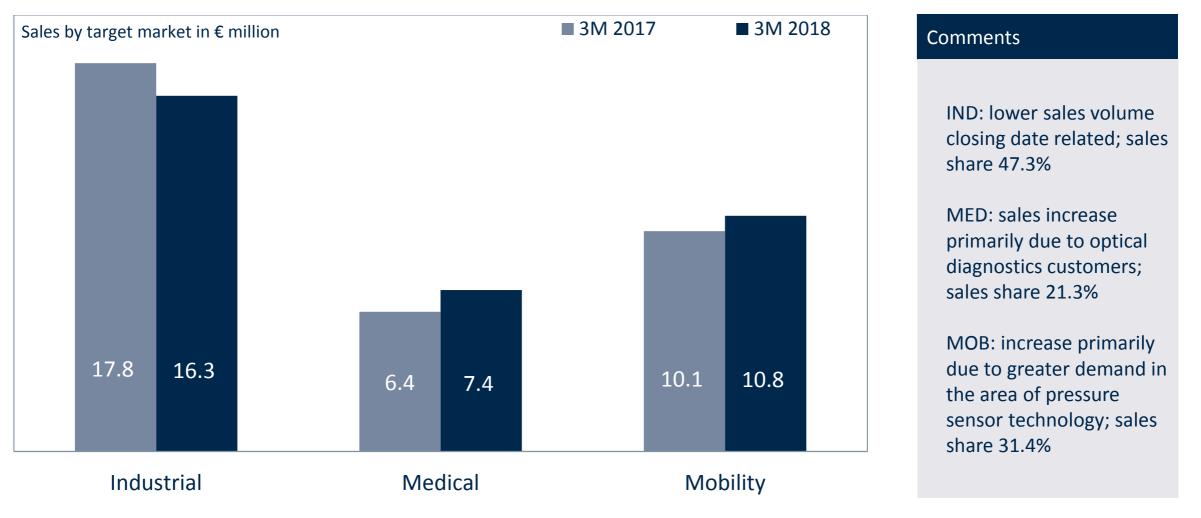
FINANCIAL KEY FIGURES Reduced output is evident in order backlog of €97.3 million



Comments

Order backlog with €97.3 million €4.8 million up on the fourth quarter of 2017; € 8.4 million up on the first quarter of 2017

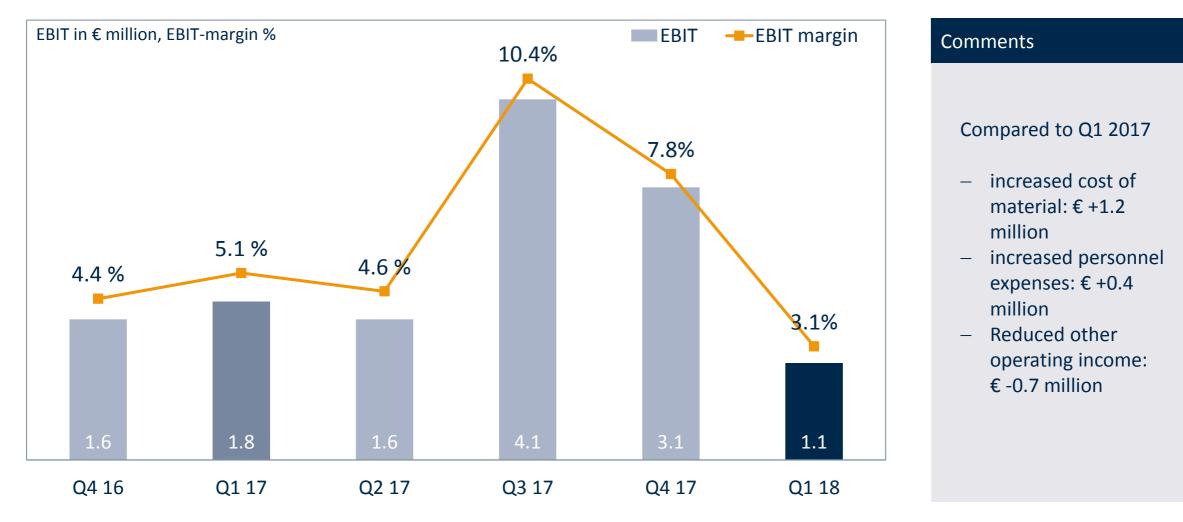
FINANCIAL KEY FIGURES Further growth in all target markets over the course of the year



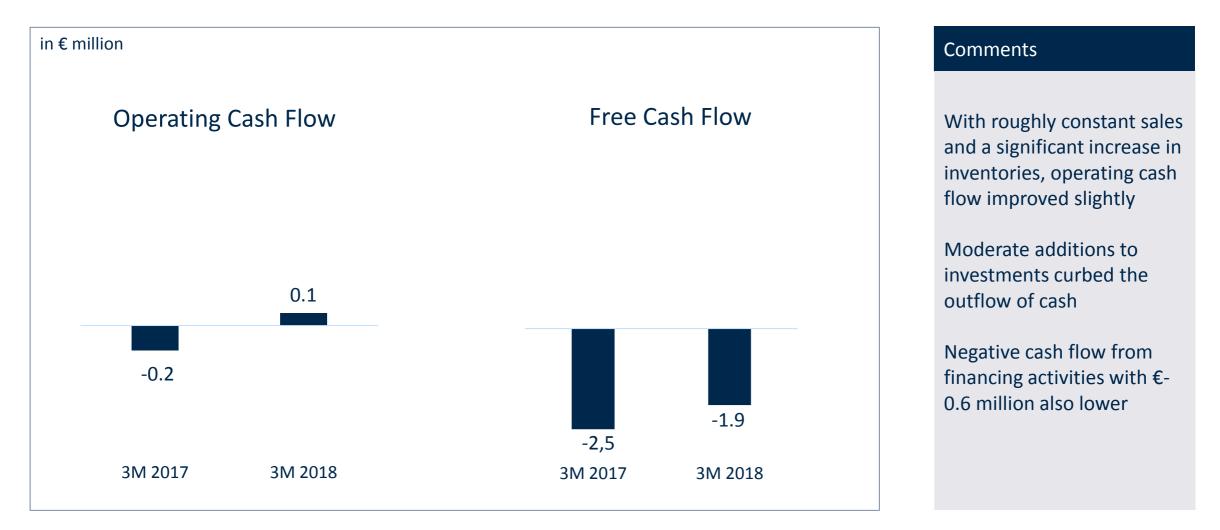
FINANCIAL KEY FIGURES DACH region still the most important market



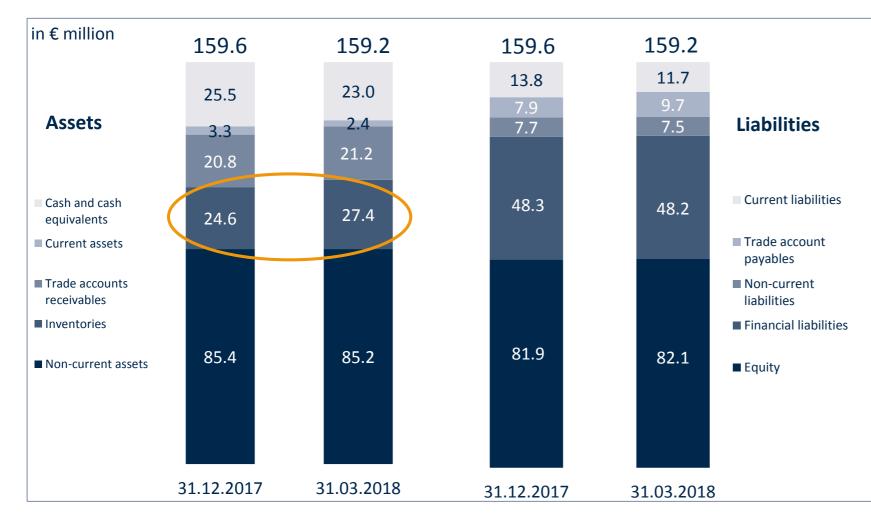
FINANCIAL KEY FIGURES EBIT-Margin 3.1 % due to reduced economies of scale and growth costs



FINANCIAL KEY FIGURES Cash flow items improve slightly year-on-year



FINANCIAL KEY FIGURES Consolidated balance sheet almost unchanged



Comments

increase in inventories of around €2.8 financed with cash and cash equivalents to allow improvement in delivery capability

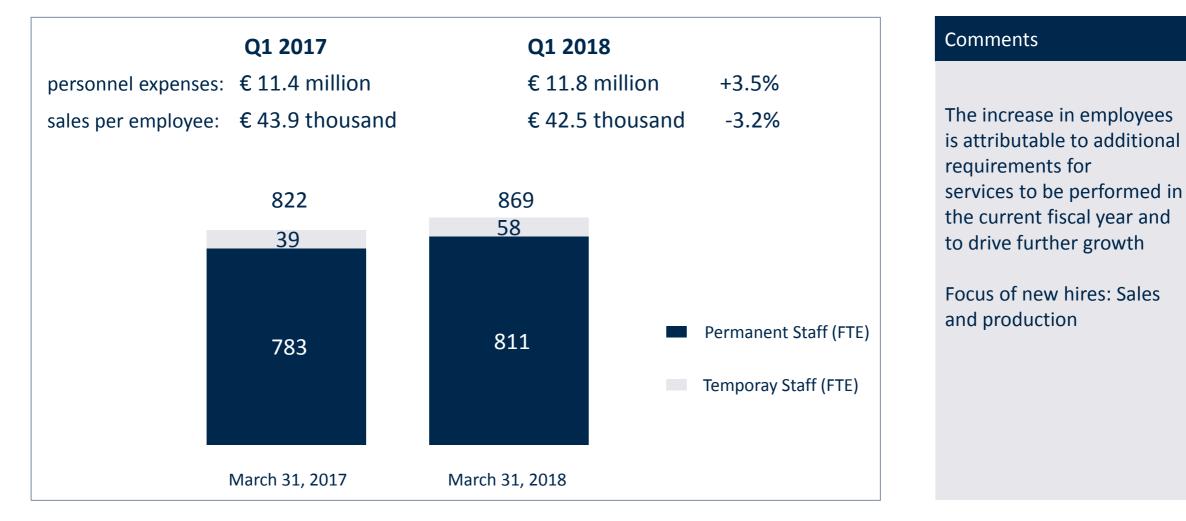
Net debt with €25.2 million slightly lower than in the previous year (PY: €27.3 million)

Equity increased to €82.1 million (PY: €78.7 million)

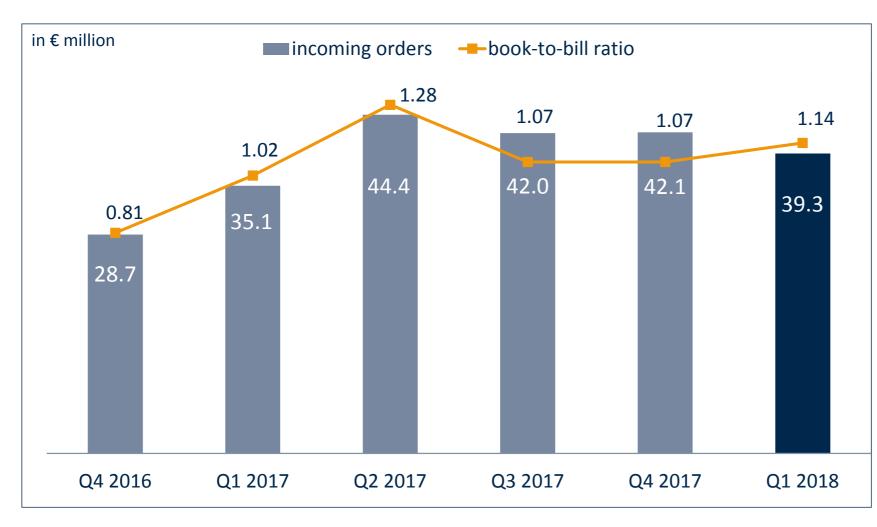
Equity ratio 51.5% (PY: 50.9%)

FINANCIAL KEY FIGURES

Growth-driven investments in expanding personnel levels



FINANCIAL KEY FIGURES Order intake still on high level, book-to-bill indicates further growth

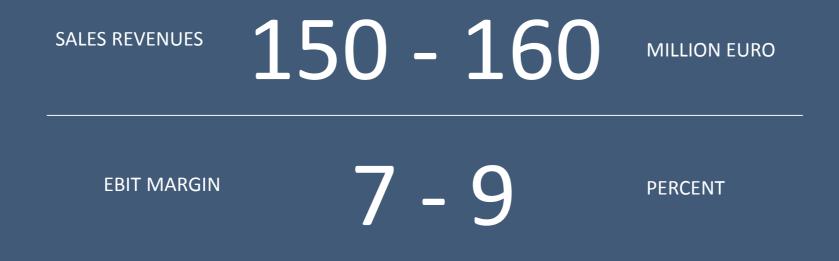


Comments

Incoming orders totaled €39.3 million. As an important growth indicator, our book-to-bill ratio thus came to 1.14 as at the reporting date.

Due to reporting date factors driven by the lower output in connection and the alignment of the ERP system, the order backlog also increased. It now totals €97.3 million.

FINANCIAL KEY FIGURES Management confirms guidance 2018





FURTHER INFORMATION

FURTHER INFORMATION Executive Board



Dr. Dirk Rothweiler

since Jan. 1, 2017

- 2017 CEO, First Sensor AG
- 2008 Executive Vice President Optical Systems, Jenoptik AG
- 2005 Vice President Sales and Service, TCZ
- 2000 Managing Director Asia-Pacific, Süss Microtec Co. Ltd.
- 1999 Director Sales & Marketing, Süss Microtec AG
- 1995 Project Manager for the Semiconductor Technology Division, Carl Zeiss
- 1995 Doctorate from the Department of Engineering, RWTH Aachen



Dr. Mathias Gollwitzer CFO

since Aug. 10, 2015

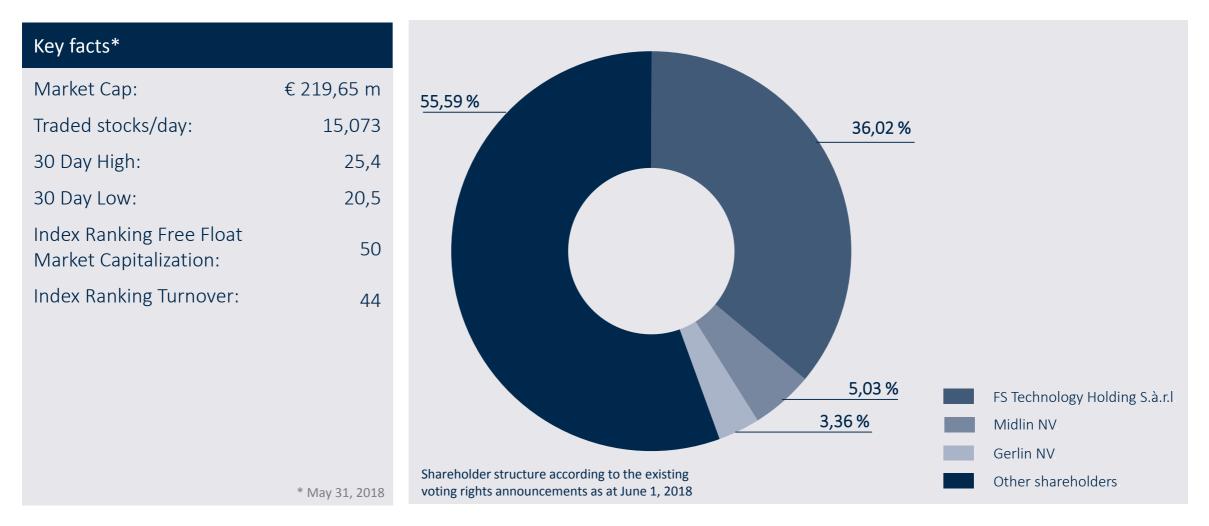
CFO, First Sensor AG 2015 2012 Vice President Group Controlling, EnBW Energie Baden-Württemberg AG 2008 CFO, Mercedes-Benz France SAS Director Corporate Controlling, DaimlerChrysler AG 2006 CFO, DaimlerChrylser Belgium/Luxembourg NV/SA 2005 2002 Director Research and Technology, Daimler AG CEO, Temic Sprachverarbeitung GmbH 1999 1995 Director Division Controlling, Telefunken Systemtechnik Gmb Expert Adviser Finance/Controlling, Deutsche Aerospace AG 1992

FURTHER INFORMATION Financial Calendar 2018

When?	What?
13.08.2018	6-Month Financial Report, https://webcasts.eqs.com/firstsensor20180813
12.11.2018	Q3 Interim Report, https://webcasts.eqs.com/firstsensor20181112
26./27.11.2018	Analyst' Conference: German Equity Forum, Sheraton Airport Hotel, Frankfurt am Main



FURTHER INFORMATION First Sensor Share



WE LEAD THE FUTURE

Company Presentation

This presentation contains forward-looking statements. This presentation does not represent any solicitation to purchase shares of First Sensor AG. Rather it is intended exclusively for information purposes with regard to possible future developments at the company. All future-oriented information in this presentation was produced on the basis of probability-based planning and represents statements regarding the future which cannot be guaranteed. Rounding differences may occur.

First Sensor AG, Investor Relations T +49 30 63 99 23 760 E ir@first-sensor.com