

OUR EXECUTIVE BOARD

Dr. Rothweiler and Dr. Gollwitzer are experienced industry managers.



Dr. Dirk Rothweiler CEO

since Jan. 1, 2017



Dr. Mathias Gollwitzer CFO

since Aug. 10, 2015

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

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

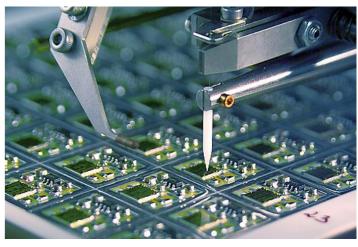
FIRST SENSOR AT A GLANCE

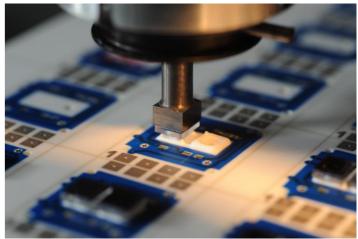
We are an expert for semiconductor production.



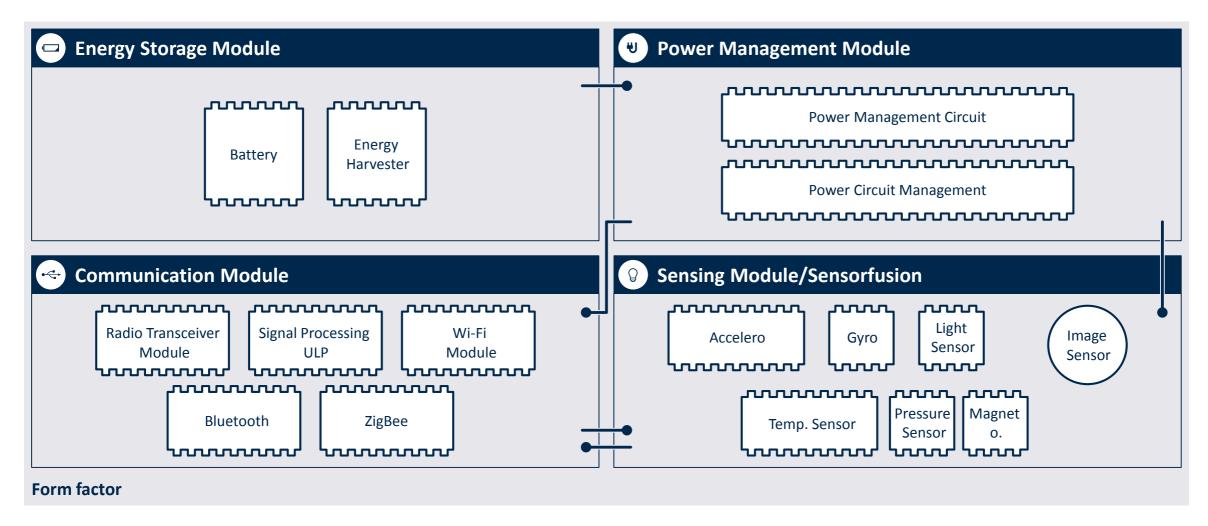
And possess extensive experience in micro systems technology.





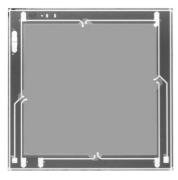


We combine these competences with profound system expertise.



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

Sensor chip



- Silicium based
- converts physical parameters into electrical signals

Packaging



Connecting
 microelectronic and
 non-electronic micro
 components to a
 housing

Sensor



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

Sensor system



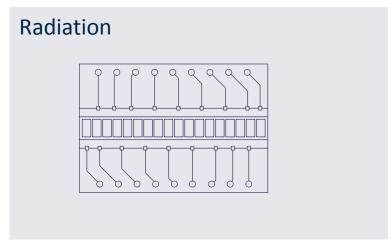
- Measures and preprocesses data
- communicates with other systems

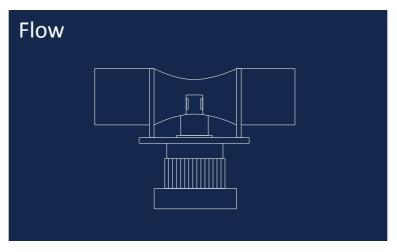
Detect

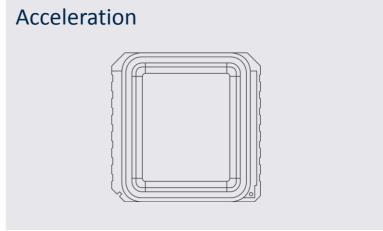
Detect & Understand

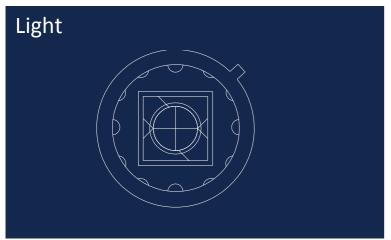
OUR RANGE OF SERVICES

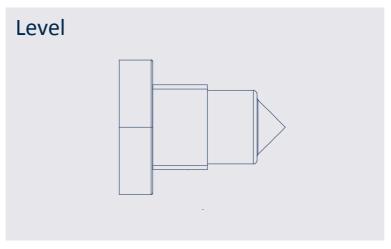
We develop and produce standard products and sensor solutions.

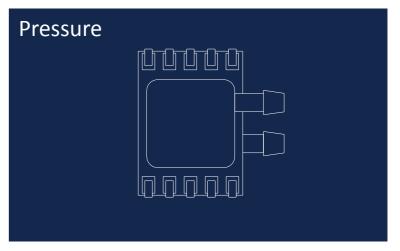








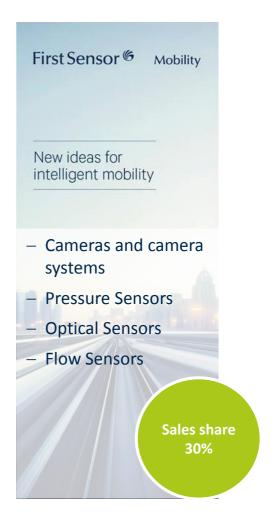




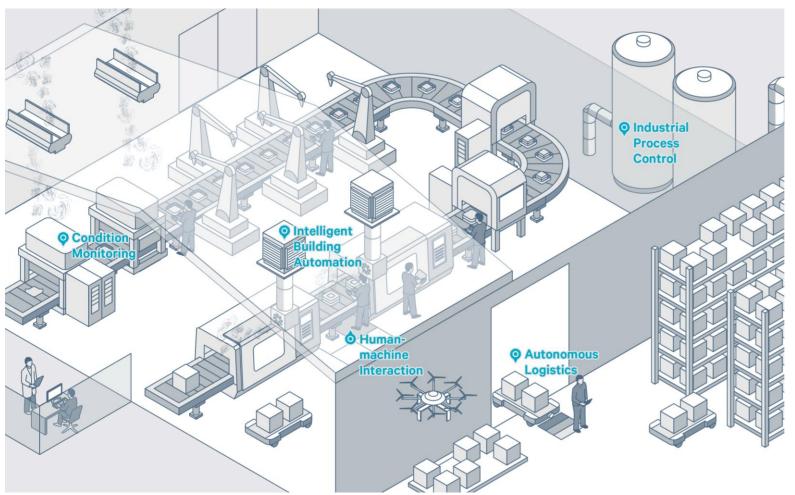
We focus on the growth markets Industrial, Medical and Mobility.







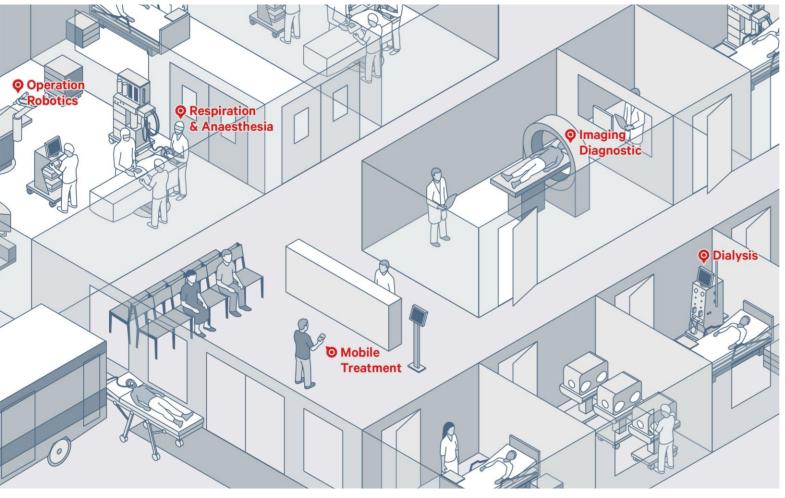
The industrial market is marked by smart processes.



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



The medical market is characterized by miniaturization & digital health.



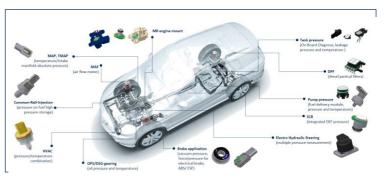
Devices in the nanometer range for new applications, e.g. ventilators for home use, are no longer merely visions of the future.

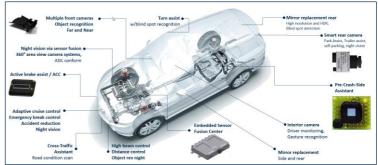


The mobility market is driven by a new idea of transportation.



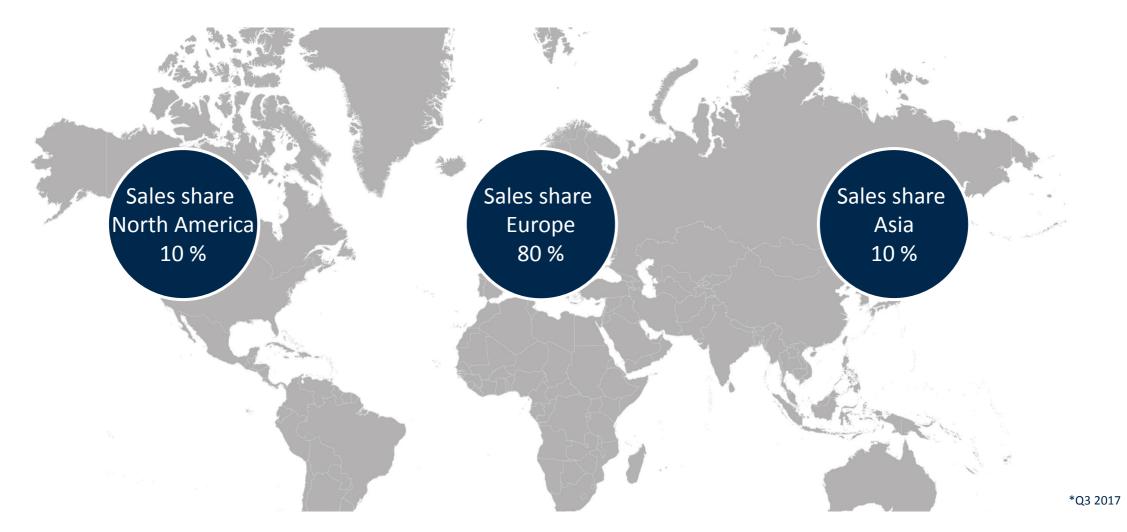
The trend towards partially and fully autonomous vehicles is possible only thanks to sensor-based driver assistance systems.





OUR PRESENCE

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



STRATEGIC PERSPECTIVE FOR PROFITABLE GROWTH

OUR STRATEGY FOR PROFITABLE GROWTH

We generate and utilize economies of scale in 4 dimensions.



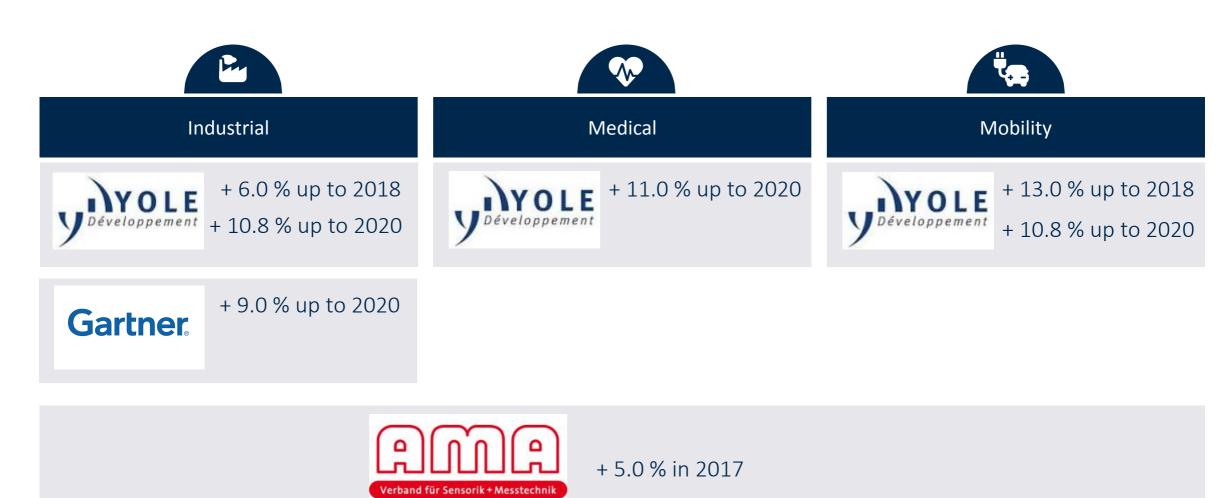
OUR STRATEGY FOR PROFITABLE GROWTH

We generate and utilize economies of scale in 4 dimensions.



DIMENSION 1: CLEAR FOCUS ON OUR TARGET MARKETS

We participate in above average growth markets.



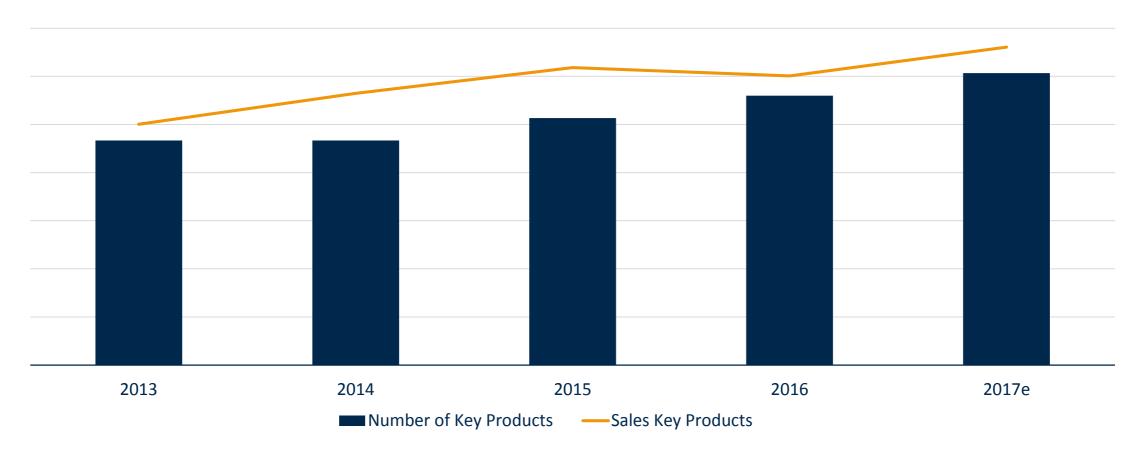
OUR STRATEGY FOR PROFITABLE GROWTH

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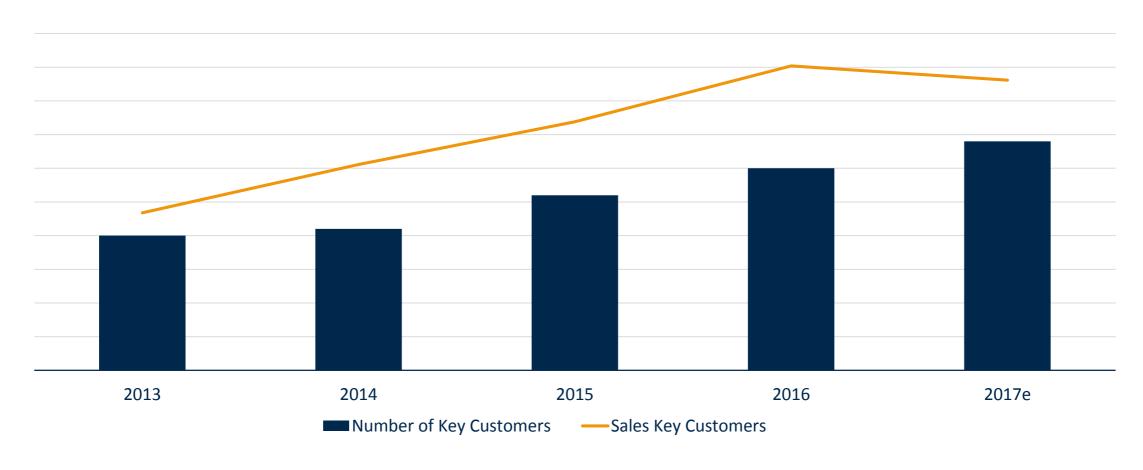
DIMENSION 2: CLEAR FOCUS ON KEY PRODUCTS

In the next years, we will grow with existing and new key products.



DIMENSION 2: CLEAR FOCUS ON KEY CUSTOMERS

In the next years, we will grow with existing and new key customers.

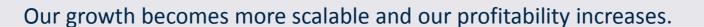


DIMENSION 2: CLEAR FOCUS ON KEY PRODUCTS & CUSTOMERS

Why is this efficient?

Key Products Key Customers

- Single respective product developments result in relatively large quantities and therefore sales volumes.
- D Sales per head in both sales and engineering increases our existing team will be able to handle larger revenue streams.
- Mix & Noise" in operations are decreased due to reduced parts variety and transactions per revenue.
- Dur supply chain and own production will gain in productivity and can be managed with fewer resources per revenue.
- With higher quantities per part our purchasing power will increase.
- With more varietal purity we increase the stability of our value creation process.
- Lead time, on time delivery and quality will improve as a result.



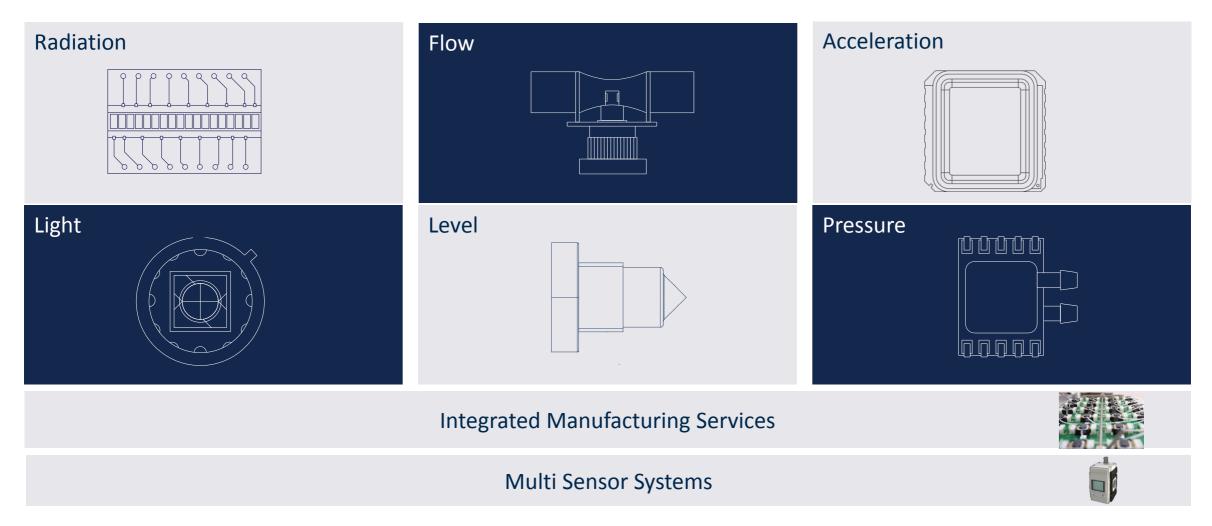
OUR STRATEGY FOR PROFITABLE GROWTH

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.



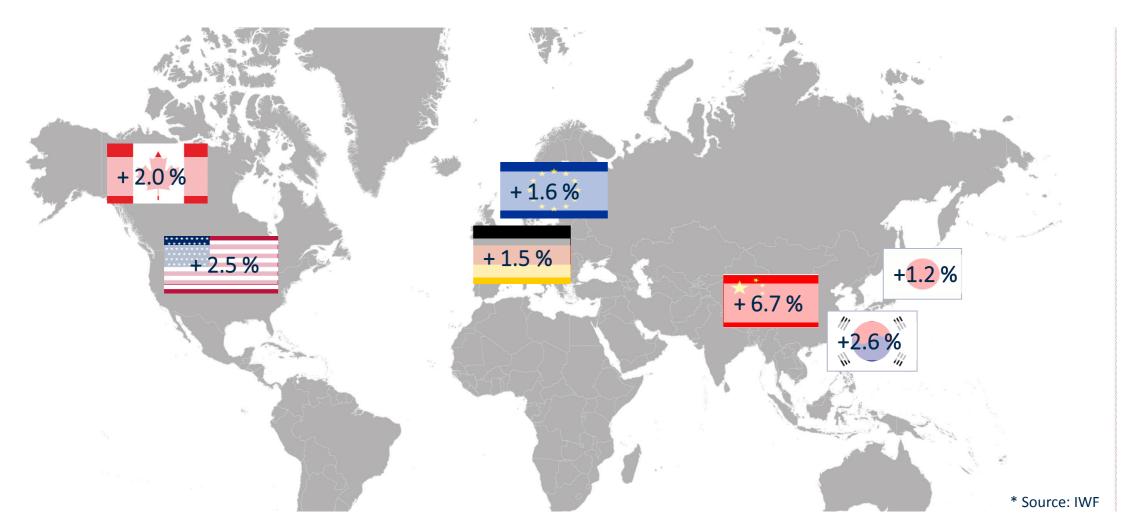
OUR STRATEGY FOR PROFITABLE GROWTH

We generate and utilize economies of scale in 4 dimensions.



DIMENSION 4: CLEAR FOCUS ON INTERNATIONALIZATION

We will participate in the solid growth* of our targeted sales regions.



OUR STRATEGY FOR PROFITABLE GROWTH

We generate and utilize economies of scale in 4 dimensions.



THE FUNDAMENT: FOCUS ON OPERATIVE EXCELLENCE

We concentrate on five core initiatives.

Top Initiatives

- Lead Time, On-Time Delivery, Quality
- Core Processes
- OneERP
- T's & C's Harmonization
- Portfolio Optimization

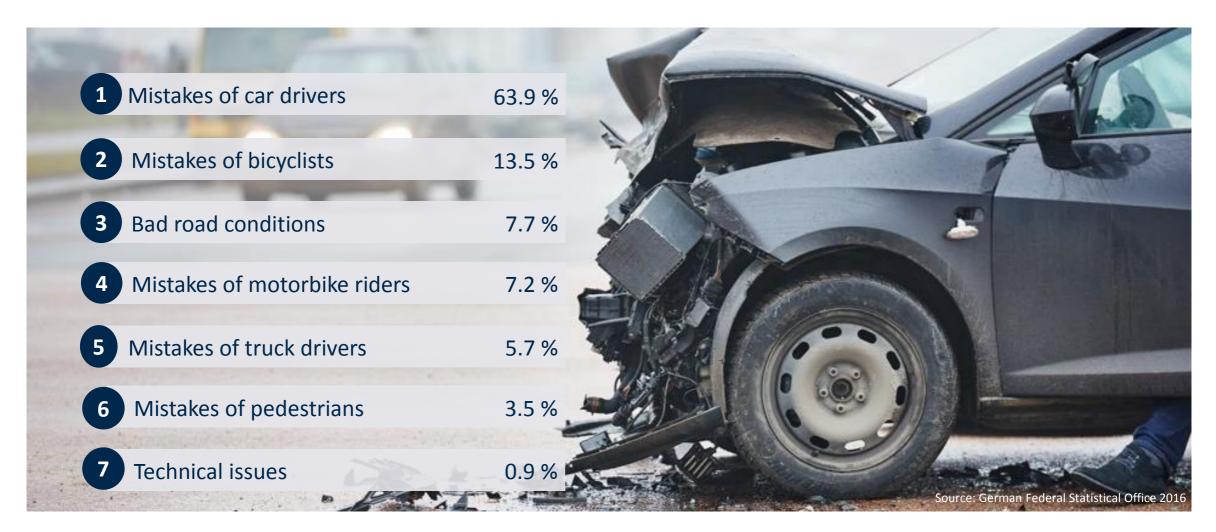
WITH THIS APPROACH TOWARDS PROFITABLE GROWTH WE ALREADY EXCEEDED OUR TARGETS FOR 2017.



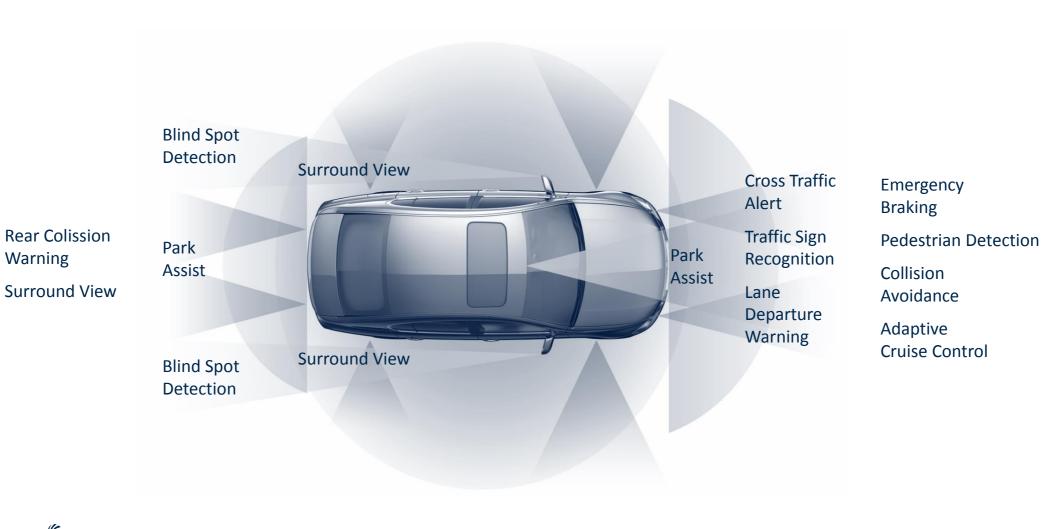
LiDAR is a relevant factor within our strategy for profitable growth.



Main reason for accidents are preventable human mistakes.



Sensors in vehicles assist the drivers and provide more road safety.



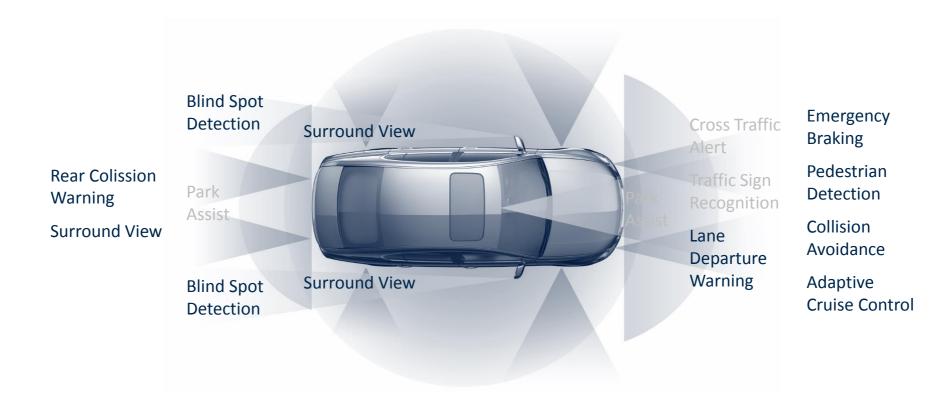
LiDAR is an important technology for many of these safety applications.

Long-Range Radar Short-/ Medium-Range Radar

LiDAR

Camera

Ultrasound



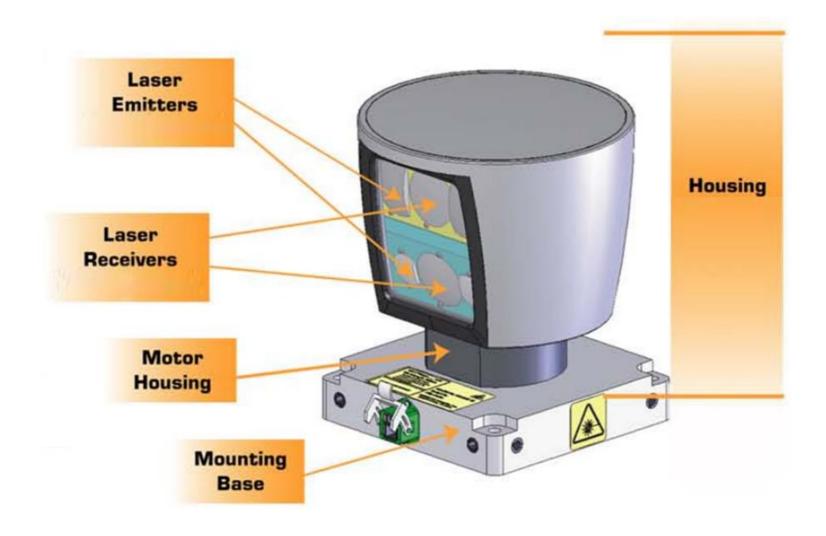
Reason: LiDAR provides the highest resolution even for large distances.

	LIDAR	Radar			Cameras			
Criteria	LIDAR (pulsed ToF)	Short distance	Long distance	Ultra-sonic	Mono	Stereo	PMD	
Max range (m)	150 -250	55 - 100	150 - 200	2 - 4	40 - 60 (120 coarse)	60	7 - 10	
Min range (m)	1	0,25 - 1	1	0.25	0.3	0.3	0.3 – 0.8	
Precision (m)	0.1 (newer: 0.04)	0.25 - 0.75	0.3 – 3.75	Very good	3	0.2 - 0.3	good	
Velocity measurement	Indirectly via distance t1-t0	directly via D	oppler effect	hardly	hardly	Indirect via dist.	Indirect via dist.	
Horizontal field of view	30° - 180°	55° Scan: 120°	16°, Scan: 60°	60°	45° - 190°	45°	40 - 69°	
Horizontal resolution	0.01° - 1°	10.5°	3.5°	bad	< 0.1° - 0.3°	< 0.1°	0.2°	
Vertical field of view	3° - 16°	3° - 13°	3° 3° - 13° 30° 45° 45	45°	40 - 56°			
Vertical resolution	0.8° - 1°	4.5°	4.5°	bad	< 0.1°	< 0.1°	0.2°	

Besides LiDAR, cameras are irreplaceable for a safe surround view.

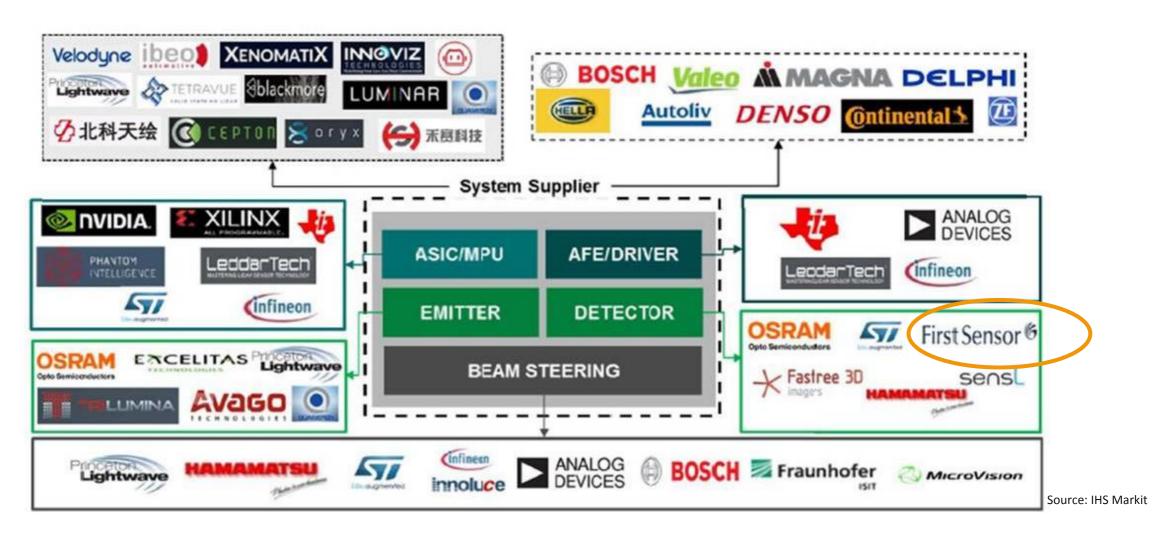
			Velodine				
On Board Ser	nsor Capability		LIDAR (Detection & ranging)	Camera (Monitoring & classification)	RADAR (Detection & ranging)	V2X & Cellular* (Information)	Map & Location (Information)
Detection	Traffic objects	Car/Trucks	* *	*	* * *	*	
Performance	ce	Motorcycle	/ * *	*	* *	*	
		Bicycle	* *	*	*	*	
		Pedestrian	* * *	*	*	*	
		Animal	* *	*			
		Debris	* *	*			
Infrastructure traffic constraint Path/Road structure	Infrastructure	Road marking	*	* *			* *
	traffic constraints	Traffic signs		* *			* * *
		Traffic lights		* *		* * *	*
	Path/Road	Curve	*	*			
	structure	Guard rails	* *		* *		
		Wall/Obstacle	* *		* *		
		wan, Obstacie		Dyr	namic		Static
	360° View		* * *	* * *			
Robustness		Rain/Snow	* *	*	* * *	* * *	* * *
		Fog			* * *	* * *	* * *
		Night	* * *		* * *	* * *	* * *
							* Depends on coverag

In LiDAR systems different components work hand in hand.

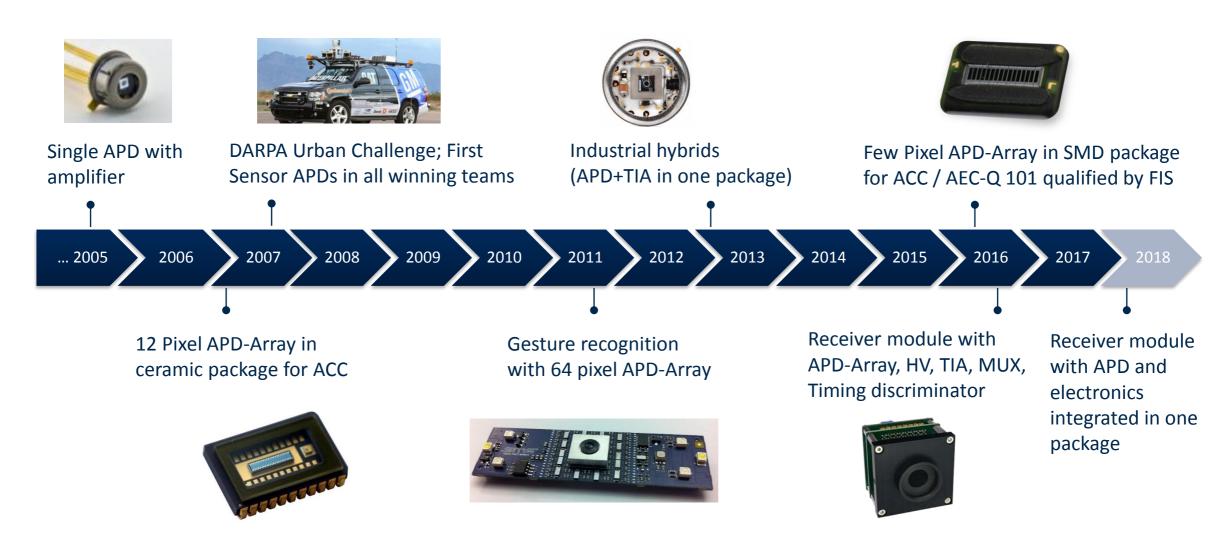


Source: Velodyne

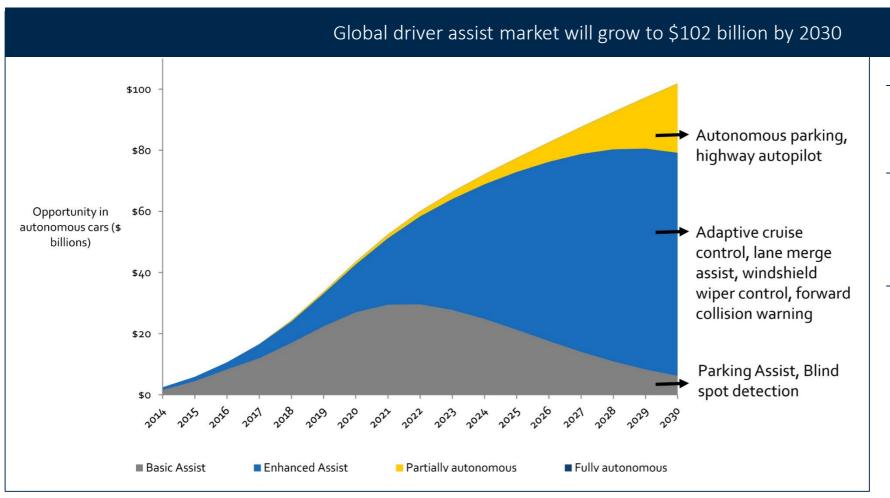
First Sensor is an important supplier for the detectors in LiDAR systems.



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



Therefore we will participate in the growth of the driver assist market.

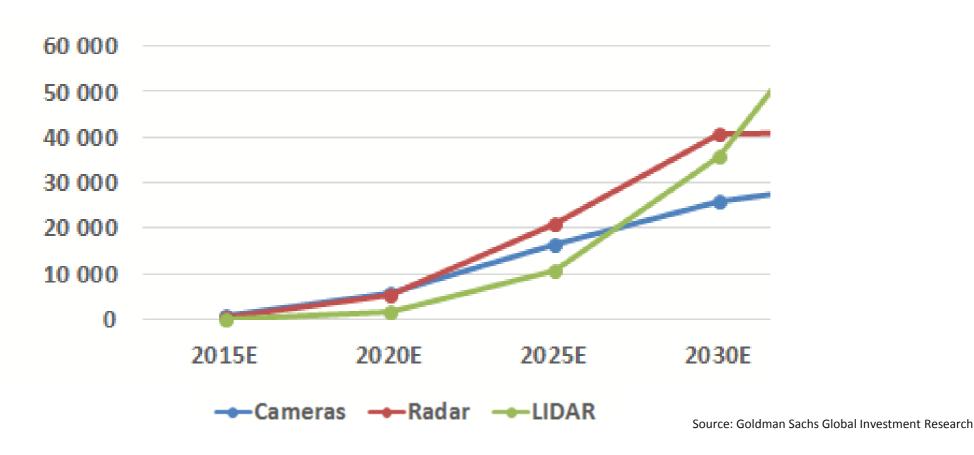


- 2017: 94 m vehicles
 produced (2.2% CAGR 17-22,
 2017 IHS Markit)
- Automotive semiconductor revenue for ADAS grows with 20.9% (CAGR 17-22, 2017 IHS Markit)
- Estimates as high as 10% of new cars with self-driving features in 2020

Source: Lux Research 2017

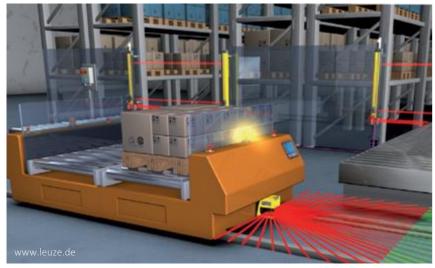
In this growing mobility market LiDAR will play the most important role.







But LiDAR also has applications in the industrial market, e.g. logistics...











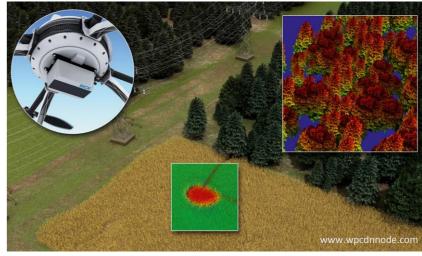




...mapping and construction...

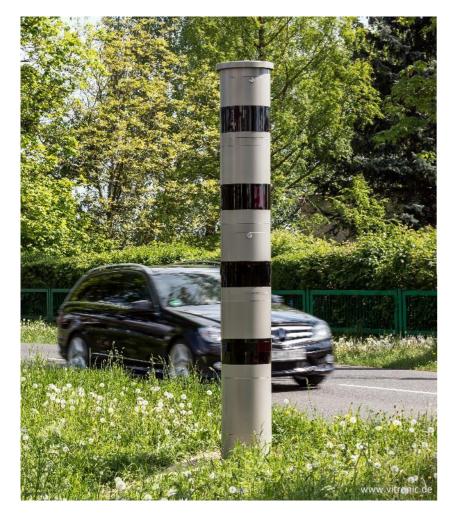


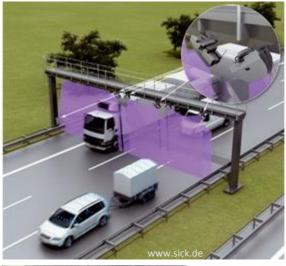






...and traffic control & security.









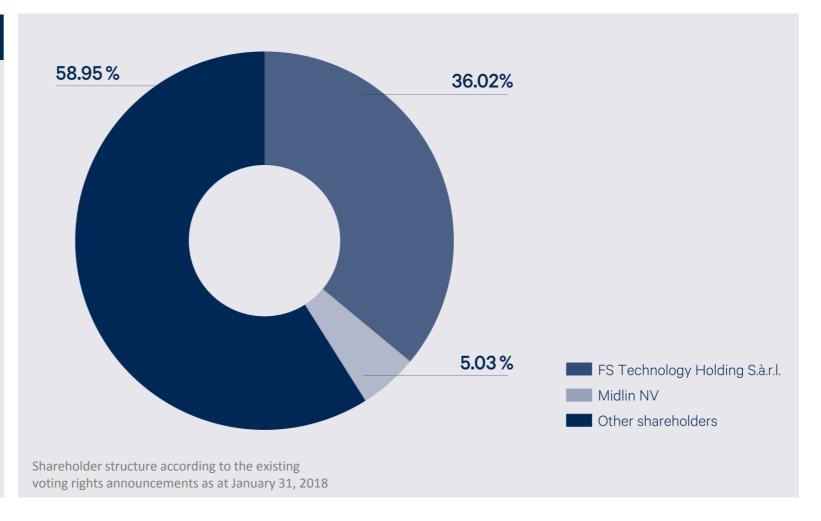


THE SHARE

FIRST SENSOR SHARE

Currently, our free float amounts to nearly 59 percent.

Key facts*	
Market Cap:	€ 214.54 m
Traded stocks/day:	28,754
30 Day High:	25,5
30 Day Low:	20,5
Index Ranking Free Float Market Capitalization:	53
Index Ranking Turnover:	53
	* January 31, 2018





FIRST SENSOR SHARE

Increase of 50% while the DAX increased by 13% over the year 2017.





FINANCIAL CALENDAR

Financial Press Conference & Capital Market Day: Meet us on March 22.

When?	What?
March 22, 2018 8.00 a.m.	Annual Report 2017
March 22, 2018 10.00 a.m.	Financial Statement Press Conference & Capital Market Day
May 14, 2018	Interim Report Q1 2018
May 23, 2018	Annual General Meeting 2018, Penta Hotel, Grünauer Str. 1, 12557 Berlin
August 13, 2018	6-Month Financial Report 2018
November 12, 2018	Interim Report Q3 2018
November 26-28, 2018	German Equity Forum 2018

FIRST SENSOR AG

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