# paragon<sub>®</sub>





# **Agenda**

- \_Highlights
- \_Business Overview
- \_Financials
- \_Appendix

### **Highlights**



### paragon – Tier1 to the automotive industry



\_ Established in Delbrück by Klaus Dieter Frers



\_ Nov. 29: IPO at Frankfurt Stock Exchange (market cap: € 26.4m)



Oct. 13: IPO of Voltabox AG (Electromobility);
 (market cap: € 506.4m) / 60 % shareholder paragon



- \_ 10 locations (Germany, USA, China)
- \_ >> 1.000 employees
- Market leader with > 300 different electronic and electromechanical products + systems
- Serving more than 30 customers, thereof more than 25 automotive OEMs incl. blue chips like Audi, Porsche, Daimler, VW and BMW and 5 e-mobility customers
- Fast growing / Highly profitable / Highly visible

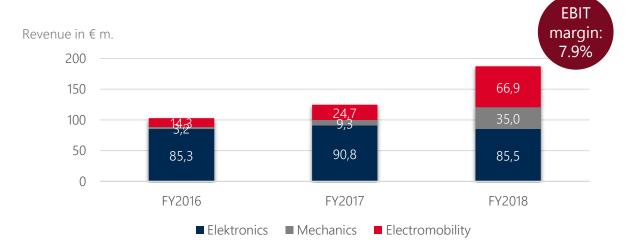


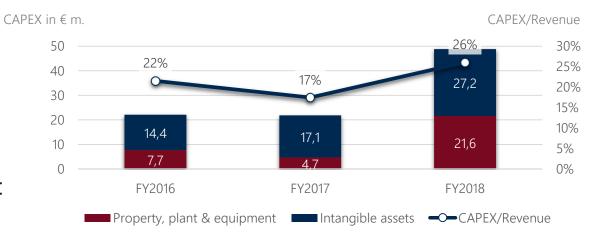
### **Highlights**



# Financial highlights from FY 2018

- \_ Sustainable revenue growth+50.1% to € 187.4m
- \_ Electromobility + 170.9%
- \_ Body Kinematics + 274.9%
- No significant influence from current headwinds in automotive sector (Diesel issue, WLTP, Tariff war China <> USA, ....)
- Premium customers with above average sales (Records of Audi & Porsche, ....)
- \_ Group EBIT up 173.9%; EBIT margin at 7.9%
- \_ CAPEX\* € 48.8m / free liquidity € 48.9m
- Continued company growth expected for FY 2019: Revenue from € 230-240m; EBIT margin at 8%)





\* Including M&A effects.

### **Highlights**



# Main goals for 2019

- → Another substantial jump in revenues and profit (paragon and Voltabox)
- → Integration/consolidation of acquired companies no further material acquisition planned
- → Finalize reshaping of group structure for better transparency and visibility
- → Further steps developing into a system provider (rather than component provider)
- → Further strengthening/broadening of management basis



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#### **Business Overview**



## The paragon principle – growth strategy

#### Mission Statement

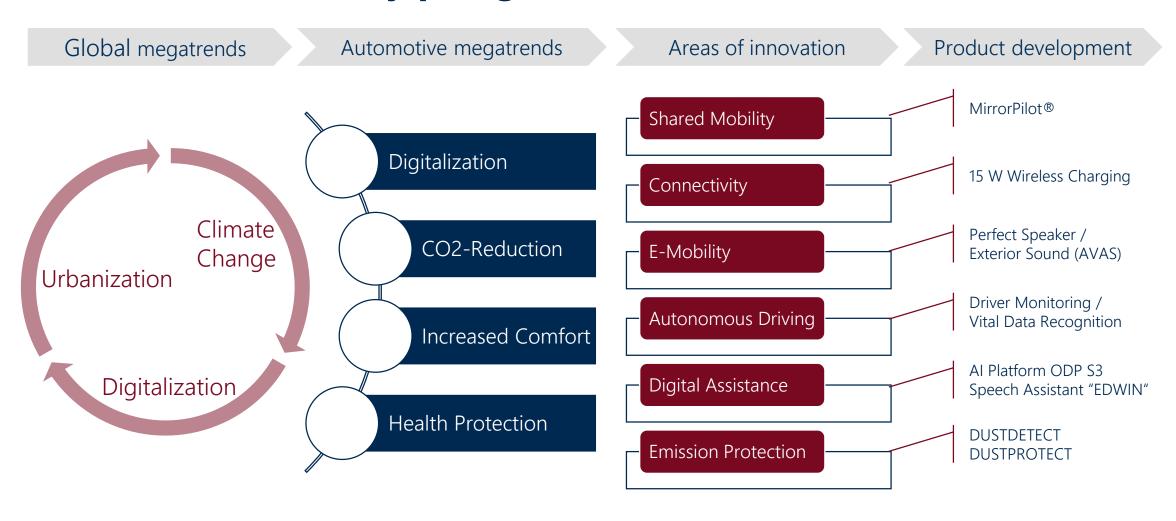
Early occupation of
high-margin fast growing
niches in
premium market segments
with
enabling technology
for existing megatrends!

- \_ Active product development
- \_ Interdisciplinary team of experts (electronics, mechanics, chemistry, production technology)
- Excellence in mass production (high degree of automation)
- \_ Unique product portfolio and market position

#### **Business Overview**



### Innovations made by paragon



#### **Business Overview**



### Premiere at the CES – most recent innovations...



#### Extract from R&D activities

#### Sensors Business Unit: (paragon)

- DUSTPROTECT
- DUSTDETECT
- Vital Data Recognition / Seat Belt Observer

#### Interior Business Unit: (paragon)

- Outside Sound (AVAS)
- Perfect loudspeaker
- Active Noise Cancellation "ANC"

#### Digital Assistance Business Unit: (paragon)

ODP S3 AI-Platform / Virtual assistant "Edwin"

#### Body Kinematics Business Unit: (paragon)

Compact Modular Spoiler Drive with Double Worm Gear Unit

#### Electromobility Business Unit: (Voltabox)

- \_ Modular standard containers for use in buses & trucks (incl. LTO)
- New generation of battery system for forklifts
- New modular kit for mass applications
- Software-as-a-service (recurring revenues)

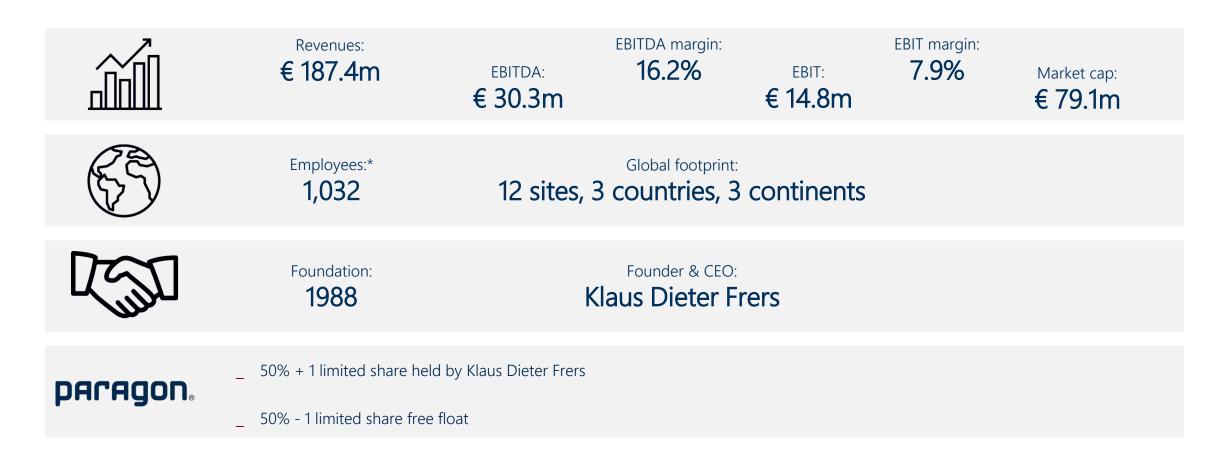


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# paragon Group at a glance (as of Dec. 31, 2018)





# **Key data I**

Material input ratio\*

56,5%

(2017: 57,1%)

 Higher revenue share of Voltabox and paragon movasys Personnel expense ratio

27,8%

(2017: 28,2%)

**EBIT** margin

7.9%

(2017: 4.3%)\*

> Reduced ramp up costs in body kinematics

EBITDA margin

16.2%

(2017: 11.9%)\*

Further profitable growth expected in FY 2019!

\* As retrospectively amended in FY 2018 consolidated financials statements.



### **Key data II**

### **Equity Ratio**

49.1%

(Dec. 31, 2017: 57.1%)\*\*

## **Operating Cashflow**

Reduced to -€ 53.3m

(FY 2017: € -10.0m)\*\*

## Free liquidity\*

€ 48.9m

(Dec. 31, 2017: € 166.8m)

Sales support of largest Voltabox customer in 2H2018 burdened net working capital

Increase in inventories for production ramp up in 1H2019

M&A and Net Working Capital as one-time effects

<sup>\*</sup> Defined as cash and cash equivalents + unused credit lines. \*\* As retrospectively amended in FY 2018 consolidated financials statements.



# **Key data III**

- \_ Strong increase in trade receivables due to the strong business development in the Electromobility segment and the support of the sales financing of the most important Voltabox partner (limited until 2018).
- \_ Inventory build-up enables rapid delivery to the intralogistics market in the Electromobility segment
- One-time increase in cash flow from investing activities through M&A (Concurrent Design, Accurate, SemVox and LPG)



€ -53.5m

(FY 2017: € -10.0m)\*\*

Cash flow from operating activity

€ -48.8m

(FY 2017: € -21.8m)\*\*

Cash flow from investment activity\*

€ 22.8m

(FY 2017: € 178.8m)\*\*

Cash flow from financing activity

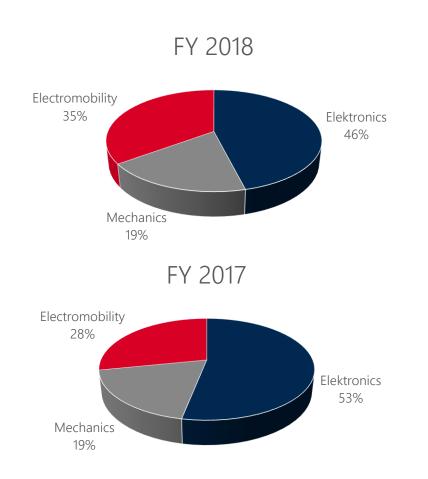
\* net of M&A-effects.

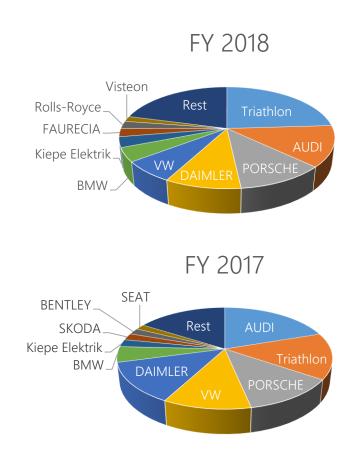
\*\* As retrospectively amended in FY 2018 consolidated financials statements.





## **Broadening of portfolio and customer base**







# **Key facts for revenues 2019e**

paragon Automotive				
Automotive Industry Megatrends	paragon Solutions	Sales Trend		
Digitalization	Digital Assistance	<b>↑ ↑</b>		
Urbanization / CO2-Reduction	Air Quality, Exterior Sound, Body-Kinematics			
Comfort	Acoustics, Instrumentation, Connectivity			



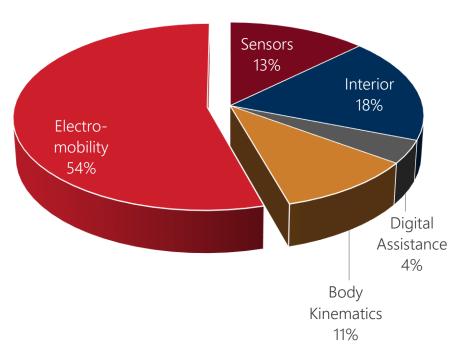
## **Key facts for revenues 2019e**

### paragon Electromobility Megatrend Electrification: Agriculture / Construction **Intralogistics** Direct sales Mining Triathlon share Port / Rail **Bus industry** Mass markets **Electric Vehicles** (Starter batteries, Pedelecs, ...)

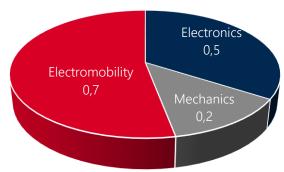


## 60-months cumulative order backlog\*

60-months cumulative order backlog\* (€2.1bn) as of Dec. 31, 2018 by segments/units



60-months cumulative order backlog\* weighted 100% as of Dec. 31, 2018 (in €bn)



- \_ Approx. €2.1bn total 60-months cumulative order backlog\* (Dec. 31, 2017: €2.0bn)
  - Estimated order backlog is weighted according to the expected lifetime and the probability of occurrence
  - Serves as base for planning
  - Evaluation system in place since IPO in FY 2000
- \_ Thereof approx. € 1.1bn attributable to Voltabox (Dec. 31, 2017: € 1.0bn)



### **Current forecast**

PGN	Results	Forecast	
	FY 2018	FY 2019	
Group revenue	€ 187.4m	€ 230 – 240m	
EBIT margin	7.9%		
Investments	€ 48.8m		
thereof: IAS 38	<i>€ 15.1m</i>	<i>€ 18m</i>	
VBX	Results	Forecast	
VBX	Results FY 2018	Forecast FY 2019	
Group revenue			
	FY 2018	FY 2019	
Group revenue	FY 2018 € 66.9m	FY 2019 € 105 – 115m	



### **Financial Calendar\* 2019**

_ Jan. 10/11, _ Jan. 31,	ODDO BHF FORUM, Lyon Bankhaus Lampe German Corporate Conference, London
_ Feb. 19/20, _ Apr. 1,	ODDO BHF German Conference, Frankfurt am Main Annual report 2018
_ Apr. 3-5,	Bankhaus Lampe German Conference, Baden-Baden
_ Apr. 11,	Solventis Aktienforum, Frankfurt am Main
_ May 13,	Interim release as of March 31 – First quarter
_ May 13/14,	Equity Forum Spring Conference, Frankfurt am Main
_ May 15,	Annual general meeting paragon GmbH & Co. KGaA, Delbrück
_ May 16,	Annual general meeting Voltabox AG, Delbrück
_ Aug. 22,	Interim report as of June 30 – Half year
_ Sep. 2/3,	Equity Forum Fall Conference, Frankfurt am Main
_ Nov. 14,	Interim release as of September 30 – 9 months
_ Nov. 25-27	Eigenkapitalforum, Frankfurt am Main
_ Dec. 10/11	Münchner Kapitalmarktkonferenz, Munich

<sup>\*</sup> Expected dates for paragon GmbH & Co. KGaA and Voltabox AG.

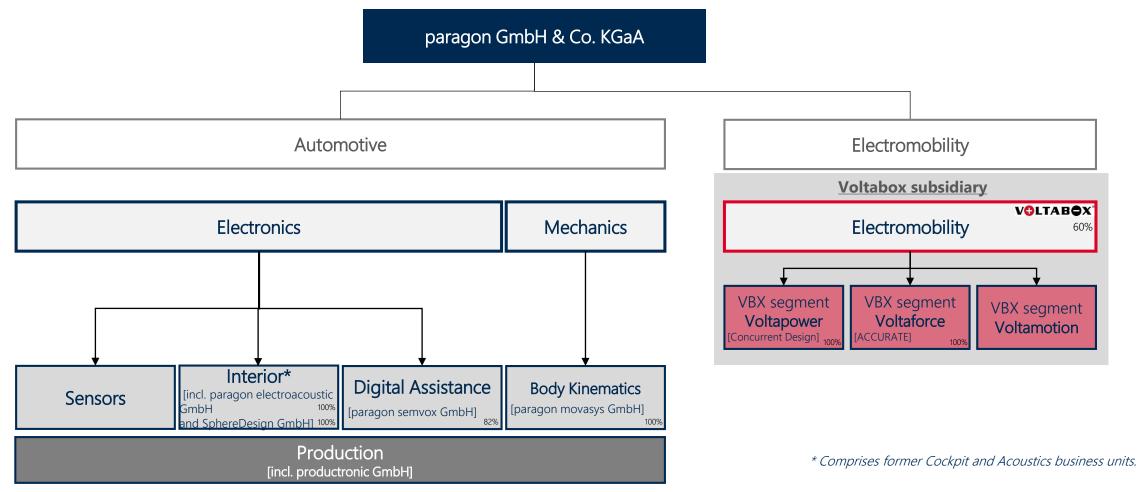


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# **Current Group structure**



paragon GmbH & Co. KGaA

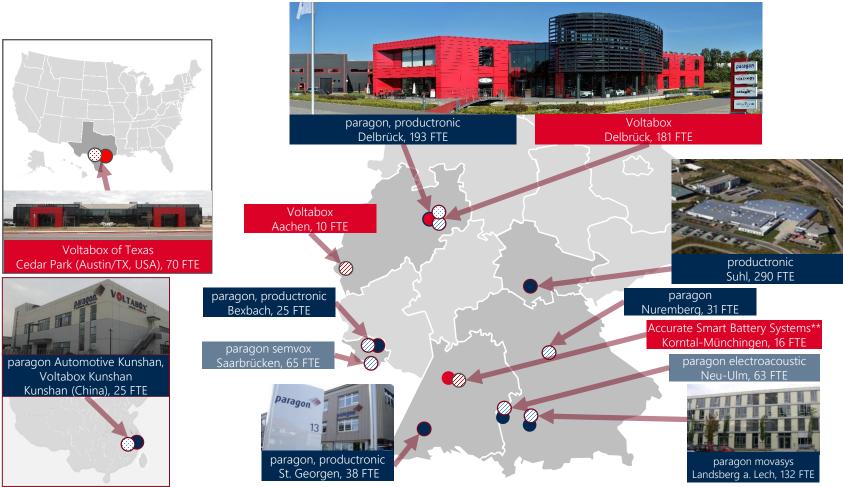
FY 2018 / BHL German Conference I Apr. 5, 2019

22

#### **Appendix – Business Overview**

# **PACAGON**®

# **Group locations**



- \_ 1,139 Group employees\* (as of Dec. 31, 2018)
- Thereof 273 FTE in R&D (24% of total staff)

- Administration and sales
- Production
- R&D

\* Incl. 107 temporary workers. \*\* In the process of merger with Voltabox AG.



# **Segment overview FY 2018**

In € ′000s	Electronics	Mechanics	Electromobility*	Eliminations	Group
Third party revenues	85,518	34,977	66,888	0	187,383
Intersegment revenues	8,272	45,503	19	-53,794	0
Segment revenues	93,790	80,480	66,907	-53,794	187,383
Changes in inventories, other operating expenses & capitalized development costs	18,027	9,009	12,711	-7,663	32,084
Expenses from intersegment offsetting	-45,520	-11,982	-3,379	60,881	0
Cost of materials, personnel expenses and other operating expenses	-46,305	-76,224	-66,648	0	-189,177
Segment EBITDA	19,992	1,283	9,591	-576	30,290
Depreciation/Amortization	-9,445	-2,031	-3,982	0	-15,458
Segment EBIT	10,547	-748	5.609	-576	14,832
Assets	226,953	37,307	209,301	-111,268	362,293
Investments (CAPEX)	29,092	6,150	13,563	0	48,805
Financial liabilities	-168,861	-33,962	-57,612	75,941	-184,494

<sup>\*</sup> The Electromobility segment includes 39.97 % minority interests.



### **Corrections to the Consolidated Financial Statements 2017**

- \_ paragon GmbH & Co. KGaA made adjustments from the previous year in the 2018 consolidated financial statements, which mainly relate to the recognition of deferred taxes in connection with an intragroup transfer of assets and expenses from the IPO of Voltabox AG, which were allocated to other operating expenses and offset against the profit carried forward.
- \_ The resulting corrections for fiscal year 2017 are explained in the notes to the consolidated financial statements for fiscal year 2018.



# **Key Earnings data (IAS)**

In € million / as indicated	FY 2018	FY 2017*	Change
Revenue	187.4	124.8	50.1%
EBITDA	30.3	14.8	104.5%
EBITDA margin (in %)	16.2	11.9	n/a
EBIT	14.8	5.4	173.9%
EBIT margin (in %)	7.9	4.3	n/a
Group result	3.4	-4.0	n/a
Earnings per share (€)	0.52	-0.30	n/a

<sup>\*</sup> As amended in the Consolidated Financial Statements 2018.



# **Key data Net Assets and Financial Position (IAS)**

In € million / as indicated	FY 2018	FY 2017*	Change
Total assets	362.3	308.0	17.6%
Equity	177.8	176.0	1.0%
Equity ratio (in %)	49.1	57.1	n/a
Free liquidity	48.9	166.8	-70.7%
Interest bearing liabilities	110.6	86.3	28.1%
Net Debt**	61.7	-80.5	n/a
Operating cashflow	-53.5	-10.0	436.5%



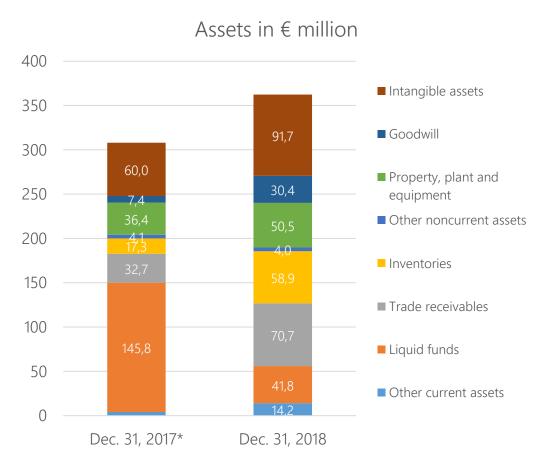
### **Key developments of Assets**

#### \_ Increase of noncurrent assets by € 68.8m

- \_ Intangible assets € +31.7m capitalized development expenses and extended scope of consolidation
- \_ Goodwill € +23.0m Acquisition of SemVox and LPG by paragon and of Concurrent Design and ACCURATE Smart Battery Systems by Voltabox
- Property, plant and equipment € +14.2m extended scope of consolidation

#### \_ Decrease of current assets by € 14.4m

- Inventories € +41.6m mainly Voltabox and extended scope of consolidation
- \_ Trade receivables € +38.1m mainly sales financing support of Voltabox customer Triathlon in 2H2018
- \_ Other assets € +9.9m mainly Voltabox effect
- \_ Liquid funds € -104.0m mainly M&A and Voltabox extension of payment terms with largest customer in 2H2018



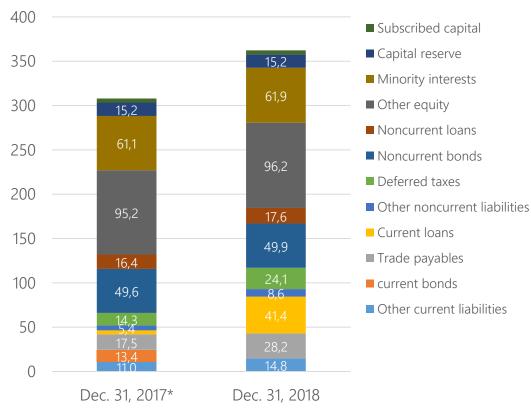
<sup>\*</sup> As amended in the Consolidated Financial Statements 2018.



# **Key developments of Equity and Liabilities**

- Increase of noncurrent provisions and liabilities by € 14.5m
  - \_ Increase of deferred taxes by € 9.8m
- Increase of current provisions and liabilities by € 38.0m
  - \_ Increase of current loans by € 36.8m
  - \_ Increase of trade payables by € 10.8m
  - \_ Decrease of current bonds by € 13.4m
- \_ Increase of equity by € 1.8m
  - Equity ratio at 49.1% (Dec. 31, 2017: 57.1%)\* (against the backdrop of increased balance sheet total)

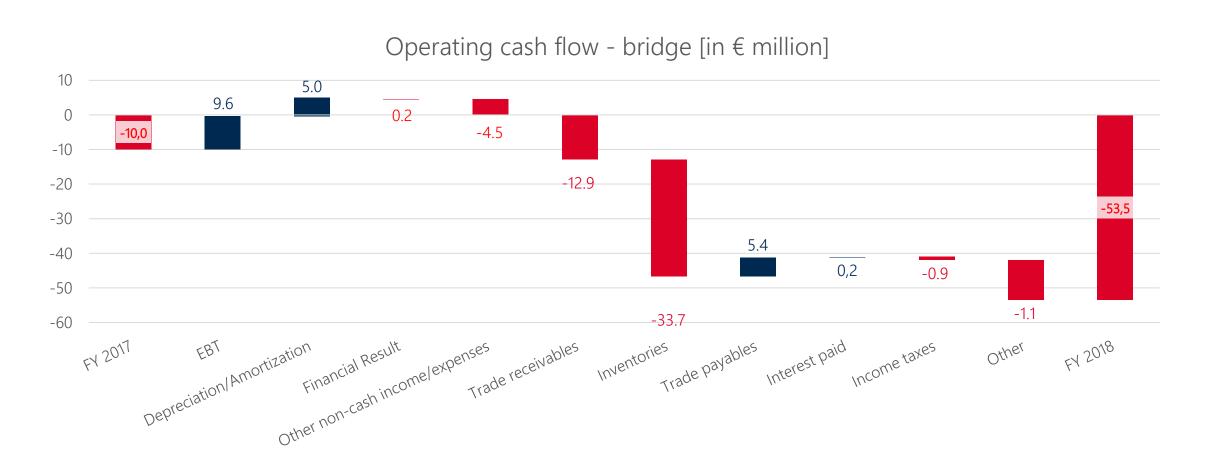
#### Equity and Liabilities in € million



<sup>\*</sup> As amended in the Consolidated Financial Statements 2018.



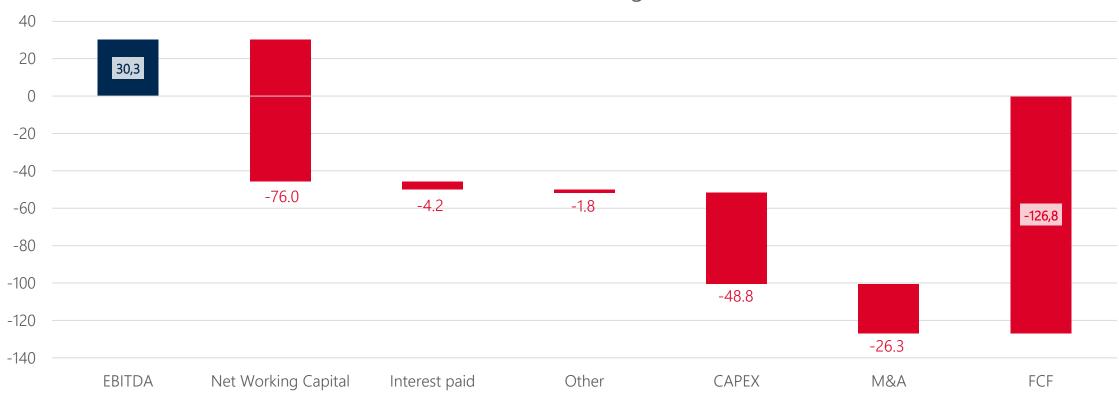
# **Development of operating cash flow (y-o-y)**





# **Key cash flow developments in FY 2018**





### **Appendix – Business Overview**



# **Current portfolio positioning**

Segments		Electronics		Electronics Mechanics		Mechanics	E-Mobility
Business Units	Sensors	Interior Acoustics	Digital Assistance	Body Kinematics	<b>V</b> ⊕LTAB⊕X°		
Key products	AQS®, AQI®, DUSTDETECT	Analog luxury instruments, MirrorPilot®, Speech control & hands-free microphones, belt-mic®, ICC, (3D+ In-car-audio)	semvox.Al technology (ODP S3)	Active mobile aerodynamic systems	High performance battery systems, battery modules, starter batteries		
Key customers	Audi, BMW, VW	Porsche, Daimler, Audi, VW	Porsche, Audi	Daimler, Audi, Porsche, Rolls Royce	Triathlon Batterien, Kiepe Electric, Komatsu Mining, BMW Motorcycles		
Growth potential	<b>+ +</b>	<b>+ +</b>	<b>+ +</b>	<b>•</b> •	$ \mathbf{O} \mathbf{O} \mathbf{O} $		
Competitive strength	<b>+ + +</b>	<b>+ +</b>	+ +	$ \mathbf{\oplus} \mathbf{\oplus} \mathbf{\Phi} $	<b>+ + +</b>		
Market entry barriers	Patents & mass production	Quality, OEM relations, Know-how, mass production	Know-how	Quality & OEM relations	Modularity & specialization		
Main markets		Autor	motive		Public transportation Industrial		



### **Electronics: high growth potentials**

Sensors



#### Air quality

- \_ Air quality sensor AQS®
- Air improvement system AQI®/IONAIR
- \_ A/C-purifier AQC©
- CO<sub>2</sub> sensor
- Particle sensor DUSTDETECT©

Products ahead of market launch

Particle filter
DUSTPROTECT

Contactless capturing of vital data

Interior



#### Connectivity

- \_ Display instrumentation
- Camera and monitor systems
- \_ Charging trays / Cradles
- Connectivity solutions / Media interfaces
- Controls and stepper motors

Mirror Pilot

Wireless charging 15W



#### **Acoustics**

- Hands-free microphones
- Noise measurement microphones
- \_ belt-mic® seat belt microphone
- \_ Vehicle sound systems (incl. ANC)
- Perfect speaker

3D+ sound system

Active road noise cancelling

Digital Assistance



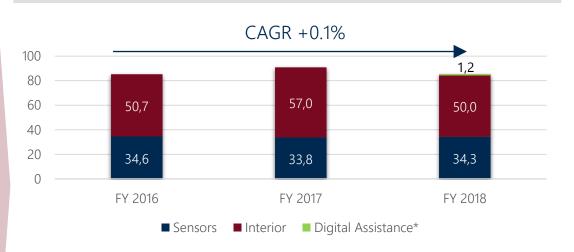
#### Speech assistants

- Technologies and solutions for voice control (proactive assistants)
- Hard- and software in the field of virtual assistance systems

High-end in-car voice control (Al software)

Cloud-based smart assistance speaker

#### Business unit revenues in € million



#### TOP customers (as of Dec. 31, 2018)











\* Initial consolidation 4Q2018.



### Mechanics: world market leader in active aerodynamics

Movable body components

- Active aerodynamics
- Actuators for rear spoilers

Movable interior comfort

- Rear folding tables for Mercedes S-Class et al.

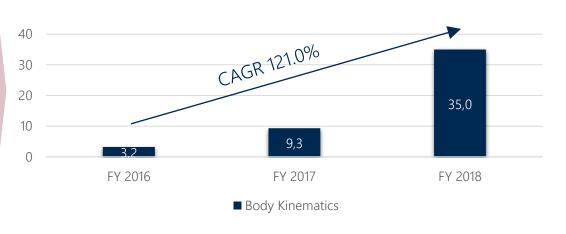
Plug and play spoiler systems

Organic winglet

Sound design of spoiler drives

Innovative door and trunk components

# 3<sup>rd</sup> party business unit revenues in € million



TOP customers (as of Dec. 31, 2018)













# E-Mobility: leading market positions in fast growing niches



Public transportation

Trolley buses



**Intralogistics** 

Forklifts & Automated Guided Vehicles (AGVs)



Underground mining

Battery Hauler & Big Bertha



Agriculture & construction

Schäffer front wheel loader



Starter batteries

BMW motorcycles (HP4)



#### Selected mass markets

Pedelecs & E-bikes

**Products ahead of** market launch

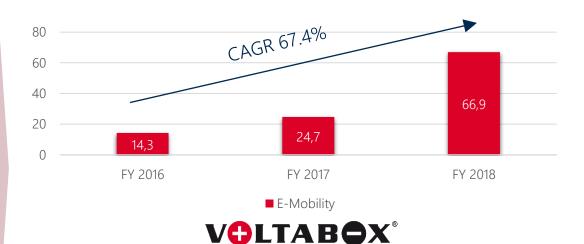
Onboard charger

DC/DC converter

Inverters

E-Machines

3<sup>rd</sup> party business unit revenues in € million



TOP customers (as of Dec. 31, 2018)



















### **Overview M&A activities**



HS Genion GmbH (Landsberg am Lech) / purchase price € 15.2m (paid in Q4 2017) / initial consolidation Dec. 2017





Concurrent Design, Inc. (Austin, TX, USA) / purchase price € 2.6m (paid in Q1) / initial consolidation Apr. 2018

\_ Engineering service provider with highly-skilled staff – facilitates development of complex battery systems



ACCURATE SMART BATTERY SYSTEMS GmbH (Korntal-Münchingen) / purchase price € 6.2m (paid in Q3) / initial consolidation Sep. 2018

Manufacturer of Li-lon battery packs for several mass market applications (i.e. pedelecs) – facilitates horizontal diversification



SemVox GmbH (Limbach) (82%) / purchase price € 16.4m\* (paid in Q3) / initial consolidation Oct. 2018

Leading B2B supplier of technologies for intelligent and e.g. voice-operated digital assistance solutions on basis of Artificial Intelligence and Machine Learning esp. for Automotive applications – enables OEMs to develop their own digital assistants



LPG Lautsprecher-Produktions-Gesellschaft mbH (Neu-Ulm) / purchase price € 3.0m (paid in Q4) / initial consolidation Nov. 2018

 Manufacturer of high end speaker systems – facilitates Interior business unit expansion for comprehensive acoustics solutions and digital sound systems (incl. external sound speakers)

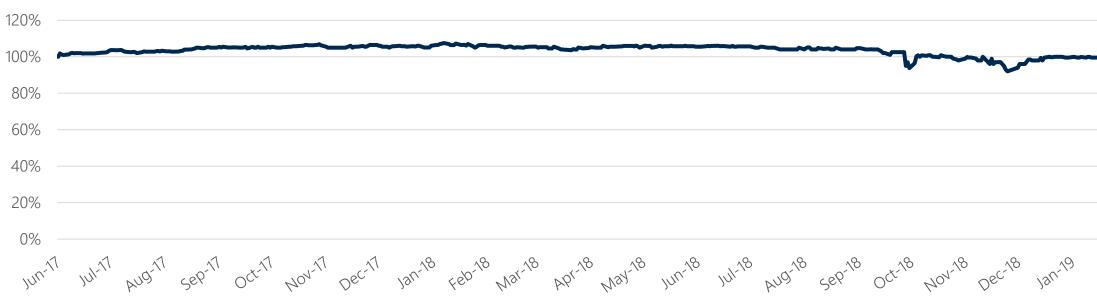


# **Share performance in 2018**





# **Corporate bond 17/22**



- Transaction volume: EUR 50m
- \_ Coupon: 4.50 % p.a.
- \_ Status: Senior, pari passu, unsubordinated, unsecured
- \_ Duration: 5 years (until 5 July exclusive); callable after 3 years
- Paying Agent: KAS BANK N.V. German Branch

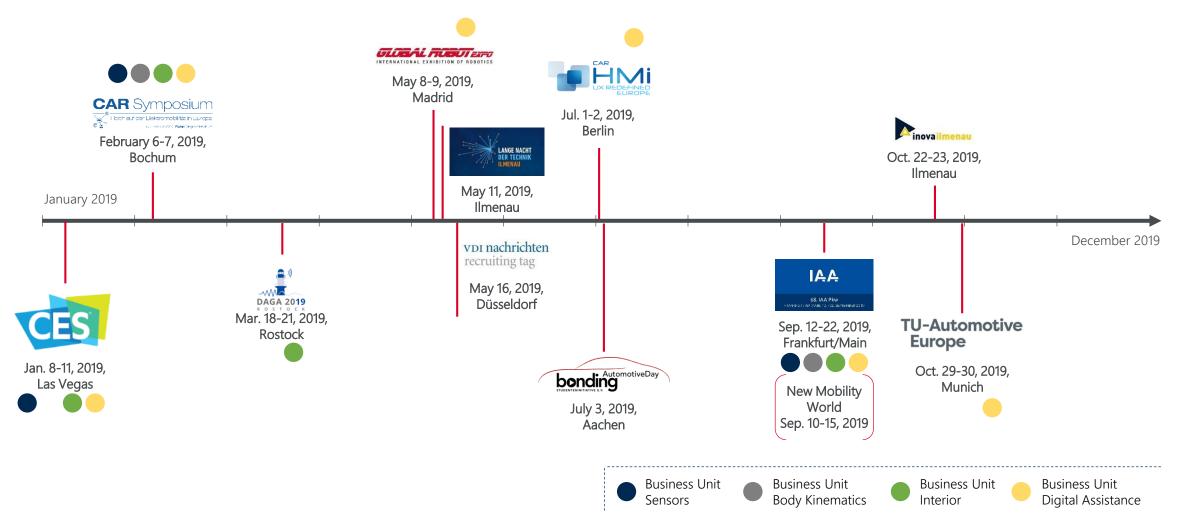
Selected KPIs*	FY 2017	FY 2018
Equity Ratio	56.8%	49.1%
EBITDA Interest Coverage Ratio	3.87	7.36
Total Net Debt / EBITDA	-3.49	2.24

<sup>\*</sup> in accordance with the DVFA Standards for Bond Communication.

#### **Appendix – Business Overview**



### paragon at fairs and conferences in 2019



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