Analyst/Investor Presentation



paragon



Agenda

- Who we are
- 🟓 Push 2018
- Segments
- Financials



Who we are

Highlights from the first 3 months of 2018



Who we are



paragon – 30 years of corporate development

- Established 1988 as an electronics manufacturer in Delbrück by Klaus Dieter Frers
- Development into an automotive Tier-1-supplier of electronics and electro-mechanics
- IPO in 2000, currently 4,526,266 shares outstanding with 50 % plus 1 share owned by CEO & founder Klaus Dieter Frers
- Several value-enhancing acquisitions and establishment of three operating segments
- Carve out of Electromobility segment and very successful (covered ten times) IPO of Voltabox AG in 2017 with current market cap* of € 360 million
- Acquisition of HS Genion GmbH and transfer of Body Kinematics unit into paragon movasys GmbH

Selected Tier-1-partners:



* As of Mar. 31, 2018.



Tier-1 supplier of automotive OEMs

- Very early entry into high margin/fast growing market segments
- Key technologies for and geared to megatrends
- Interdisciplinary team of experts
 (Electronics, mechanics, chemistry, production technology)
- Pioneering and active product development
- Excellence in mass production (high degree of automation)
- Outstanding and prestigious market position

Mission Statement

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





Portfolio positioning at a glance

Segments		Electronics	Mechanics	E-Mobility			
Sensors		Acoustics	Cockpit	Body Kinematics	VOLTABOX'		
Main products	AQS®, AQI®, DUSTDETECT	Speech control & hands-free microfones, belt- mic®, ICC, (3D+ In-car-audio)	Analog luxury instruments, MirrorPilot®	Active mobile aerodynamic systems	High performance battery systems, battery modules, starter batteries		
Main customers	Audi, BMW, VW	Audi, VW	Porsche, Daimler, VW	Daimler, Audi, Porsche	Triathlon Batterien, Kiepe Elektrik, Komatsu Mining, BMW		
Growth potential	++	++	++	+	+++		
Competitive strength	+++	++	+++	+++	+++		
Market entry barriers	Technology						
	Patents & mass production	Know-how & mass production	Quality & OEM relations	Quality & OEM relations	Modularity & specialization		

Increase of the average price each per product up 16.2% compared to 2016 (+25% compared to 2015)

Who we are



Management



Klaus Dieter Frers

- Founder and major shareholder* of paragon AG
- CEO of paragon AG responsible for Corporate Development, Quality, Finance (Accounting, Controlling & IT), Investor Relations, Human Resources
- Head of Electromobility operating segment (Chairman Supervisory Board of Voltabox AG)
- Head of Mechanics operating segment



Dr.-Ing. Stefan Schwehr

- CTO of paragon AG since April 1, 2014
- Head of Electronics operating segment (Business Units Sensors, Cockpit and Acoustics; SphereDesign GmbH as well as paragon Automotive Kunshan Co., Ltd.)
- Previous function: Head of series development controls and displays at Daimler AG



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PUSH 2018: to usher into a new era





Urbanization



Current internal projects and relevant developments

- Premium OEM as pilot customer for particle sensor DUSTDETECT (2.5 μm) (SOP: Q2/2018) and increasing market penetration of the single channel DUSTDETECT
- Completed development of the particle filter DUSTPROTECT, which is six time more effective than regular modern HEPA air filters
- Series release of the car sharing module by customer

Increasing air pollution

- Particle and fine dust filtration
- Smog reduction
- Improvements for the quality of stay

Shared mobility

- Efficient and fail-safe user authentication
- Easy and safe vehicle access
- Seat individual infotainment in robo-taxis



Digitalization



Current internal projects and relevant developments

- Start of sensor technology for contactless recording of vital data
- Active-Road-Noise-Cancelling as further feature in the sound system
- Presentation of a streaming service for multi-channel music
- Strong interest of Italian sports car OEMs in the innovative belt microphone

Autonomous driving

- Driver monitoring is mandatory*
- Contactless evaluation of vital data

"Always on"

- Wireless charging
- Scalable platforms
- User-friendly control systems

Modern connectivity

- In-Car-Communication
- High-performance microphones
- Scalable 3D+ sound systems
- Road-Noise-Cancellation
- * Article 1b Road Traffic Act (STVG).



Carbon reduction



Current internal projects and relevant developments

- Organic winglet: inspection and testing of serial use for customer application
- 2nd generation of bow wave element (for use in Mercedes-AMG R 232) in advanced development
- Provision of Big Bertha system module prototype for final validation
- Provision of Schäffer system module prototype for final validation
- Monobloc Battery system solution incl. onboard charger and charge cable

Efficient vehicles

- Less aerodynamic drag is more important for CO₂-reduction than less weight
- Flexible components for need-oriented usage when driving
- Integration by mechatronics

Sustainable mobility

- Lithium-Ion battery systems instead of combustion engines
- Fully electric drivetrains
- Motor sound synthesis



Increasing comfort



Current internal projects and relevant developments

- Integration of voice assistant Chris into MirrorPilot©
- Upgrading of Mirror Pilot[©] for handling the radio tuner via a 3rd party app

Convenient interaction

- Touch and gesture control
- Analog instrumentation, combined with digital displays
- Controls and panels
- Table mechanics



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Electronics segment



* 3rd party revenues.



Electromobility segment



Public transportation

Trolley buses
Fully electric buses
Plug-in-hybrid buses



Intralogistics

•Forklifts •Automated Guided Vehicles (AGVs)



Mining

•Underground mining (e.g. Battery Hauler)



Agriculture & Construction

•Farm equipment (e.g. Wheel Loaders)

Development of revenues* in € million



Q1/18 yoy growth rate: 97.5% (Q1/17: 45.5%)

FY17 revenue share: 19.8% (FY16: 13.9%)

TOP customers



* 3rd party revenues.



Mechanics segment

Streamlined aerodynamics

• Active mobile aerodynamic systems

- New spoiler generation
- Actuators for adaptive spoilers

Development of revenues* in € million







- Q1/18 yoy growth rate: 860.4% (FY 17: 188.0%)
- Q1/18 Revenue share: 22.0% (Q1/17: 3.1%)

TOP customers







BENTLEY

* 3rd party revenues.



USPs: System provider to automotive industry





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Key Figures Revenue / Earnings (FY17)





Key Figures Revenue / Earnings (Q1/18)









Key Figures Share of Segments / Clients





Key Figures Assets

- The costs of the IPO have caused a one-time tax burden (30 %) of € 2.8 million. Otherwise a consolidated net income would have been the result.
- In fiscal year 2017, paragon has had additional costs of € 3.6 Mio. (launching costs, and special charges not yet invoiced). The adjusted consolidated net income would total € 5.7 million (much higher than in the previous year).
- Due to the very successful Q4/17 trade receivables increased significantly. paragon expects to reduce receivables to a great extent in 2018.





Key Figures Equity & Liabilities

- paragon AG's equity increased substantially
 by € 142.4 million to € 177.1 million
 (December 31, 2016: € 34.7 million), mainly
 due to the IPO of Voltabox AG.
- Noncurrent provisions and liabilities
 increased to € 88.4 million (Dec. 31, 2016: €
 44.9 million), which was mainly due to higher
 deferred taxes and the increase in
 noncurrent bonds related to the issue of the
 2017/22 bond with a volume of € 50 million.
- Current provisions and liabilities increased to
 € 46.4 million (Dec. 31, 2016: € 36.0 million),
 which is particularly attributable to the
 2013/18 corporate bond maturing in 2018.





Key Figures Cash Flow

 Cash flow from operating activities decreased to € -8.4 million.

Main factors:

- 🔶 🛛 lower EBT
- significant increase in trade receivables
- increase in inventories
- Adjusted for transaction investments, cash flow from investment activity down by 3.2% to € -37.2 million.

Main factors:

decrease of 39.0% in payments for investments in property, plant and equipment to € 4.7 million

In € million	FY 2017	FY 2016
Earnings before taxes (EBT)	3.3	5.8
Depreciation of noncurrent fixed assets	- 9.4	7.1
Financial result	4.4	3.2
Increase (+) / decrease (-) in other provisions and pension provisions	1.5	0.2
Increase (+) / decrease (-) in trade receivables	- 26.3	1.4
Increase (-) / decrease (+) in inventories	- 3.6	- 2.5
Increase (+) / decrease (-) in trade payables	4.8	6.2
Interest paid	- 4.4	- 3.2
Cash flow from operating activities	- 8.4	16.8
Cash flow from investment activities	- 37.2	- 23.2
Cash flow from financing activities	177.2	12.2
	Dec. 31, 2017	Dec. 31, 2016
Liquid funds	145.8	17.3



Impressive lifetime order backlog*

- Estimated order backlog is weighted according to the expected lifetime and the probability of occurrence.
- Consistent evaluation system in place since IPO in FY 2000.
- ⇒ Lifetime order backlog* amounts to imposing € 1.96 billion (thereof 68% signed orders/framework contracts).
- +26% growth compared to June 30,
 2017 (€ 1.55 billion)



* As of: Mar. 31, 2018, incl. paragon movasys GmbH.



Investments to support the growth strategy





Investment Plan 2018

- For paragon, investments are both responsibility and consequence of its rapid growth. In the past fiscal year, paragon once again invested heavily in the further expansion of its business activities.
- Capitalized development costs expected to increase by 11.0%.
- Total investment volume of
 € 35.0 million in 2018 in order to back the dynamic growth and sustained success story of paragon.





M&A Strategy

Expansion of ecosystems in autonomous driving and smart mobility services

Expansion of technological expertise on system level

Expansion of vertical integration in production

Core Business: Tier 1-supplier to global OEMs with proprietary innovations



Latest steps in M&A growth strategy





Dec. 2017: Acquisition of HS Genion GmbH

- About 100 highly skilled employees
- € 25.3 million revenue in FY 17 / strong order backlog
- Complimentary technologies / fast integration
- Revenue contribution as of Dec.2017
- Rebranding as paragon movasys GmbH in Dec. 2017





Apr. 2018: Acquisition of Concurrent Design, Inc.

- More than 20 highly skilled employees
- Technical expertise is perfect for Voltabox
- Expert knowledge from more than 1.700 successfully completed projects
- The acquisition significantly increases Voltabox's development capacities



AG \rightarrow KGaA: Strengthening for further growth

paragon AG intends to change its legal structure into a partnership limited by shares in order to...

- continue the company's proven growth strategy while preserving its character as a family-owned company (no changes in practice)
- prevent any conflict of interests between the Frers family and the growth of the company, while having a future-oriented investor-friendly design of the legal structure
- be prepared to take full advantage of the € 1.96
 billion lifetime order backlog
- ensure that Klaus Dieter Frers remains a long-term investor in paragon





A Look Ahead

Significant faster growth than the automotive sector once again (based on the good order situation for 2018)



Electromobility		Body Kinematics		Electronics	
*	Doubling of segment's revenues to around € 60 million EBIT margin of around 10 percent		Above-average contribution to the increase in revenue Integration of paragon movasys		Margins are most likely expected to increase due to lifecycle and substitution effects
			GmbH may necessitate additional effort		From FY2019 onwards, increasing contribution to the Group's growth through new products

Currently paragon AG as well as its subsidiary Voltabox AG are working at high pressure on **realizing value-enhancing acquisitions**.



Forecast and consensus

Financial performance indicators of paragon AG 2017		17	2018
[in € million / as indicated]	Forecast	Results	Forecast
Group revenue	120 - 125	125	Approx. 175
EBIT margin	9.0 - 9.5%	adjusted 9.0%	Approx. 9%
Analyst estimates	20	17	2018
Group revenue	124.4		154.8
EBIT margin	9.3%		10.4%
Financial performance indicators of Voltabox AG	20	17	2018
Financial performance indicators of Voltabox AG [in € million / as indicated]	20 Forecast	17 Results	2018 Forecast
[in € million / as indicated]	Forecast	Results	Forecast
[in € million / as indicated] Group revenue	Forecast 25 Slightly positive	Results 27*	Forecast Approx. 60
[in € million / as indicated] Group revenue EBIT margin	Forecast 25 Slightly positive 20	Results 27* 2.1%	Forecast Approx. 60 Approx. 10%

* Thereof around \notin 2 million with parent company paragon AG.



Analyst coverage

Analyst	Date	Target	Comment
Christian Ludwig, Bankhaus Lampe	May 4, 2018	€ 105.00	Expect to see a continuation of the strong growth
Thomas J. Schießle, EquiTS	Feb. 5, 2018	€ 103.50	About 40% growth in 2018 - Guidance on EQUI.TS prognosis - Acquisitions in the work
Christian Glowa, Hauck & Aufhäuser	Jan. 30, 2018	€ 100.00	All geared towards profitable growth – PT up to € 100
Dr. Norbert Kalliwoda, Kalliwoda Research	Oct. 9, 2017	€ 105.00	Well positioned for further expansion
Ralf Marinoni, Quirin Privatbank	Jan. 29, 2018	€ 72.00	FY 2018 outlook not convincing
Current Consensus	€97.10		
Upside*	23.4%		



12-months performance of paragon share





Financial calendar*

4	Jan. 11/12,	Oddo Forum, Lyon
-	Feb. 1,	Bankhaus Lampe German Corporate Conference, London
-	Feb. 21/22,	12. Oddo-BHF German Corporate Conference, Frankfurt am Main
۲	Mar. 13,	Annual report 2017
-	Apr. 18-20,	Bankhaus Lampe Deutschlandkonferenz, Baden-Baden
-	May 8,	Interim release as of March 31 – 3 months
-	May 8,	Annual general meeting paragon AG, Delbrück
-	May 9,	Annual general meeting Voltabox AG, Delbrück
۲	May 14-15,	Equity Forum Frühjahrskonferenz, Frankfurt am Main
	May 16,	Berenberg Investor Forum at The Battery Show, Hannover
-	Jun. 7,	quirin Champions 2018, Frankfurt am Main
-	Aug. 21,	Interim release as of June 30 – 6 months
-	Sep. 3/4,	Equity Forum Herbstkonferenz, Frankfurt am Main
۲	Nov. 13,	Interim release as of September 30 – 9 months
-	Nov. 26-28,	Deutsches Eigenkapitalforum 2018, Frankfurt am Main

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