

GROUP INTERIM REPORTER

PACAGON®

"paragon enters the new year with optimism"

"Significant increase in profitability achieved in Q1/2024"

"Forecast for the current financial year confirmed unchanged"



paragon in a Nutshell

>13%

of 779 employees in R&D

90%

Single-Source

Automotive Tier1-Independent from type of drive!

Market Leader

>300 Products in

>220 Vehicle Types

Every

7th

vehicle is equipped with paragon technology

Globally

>150m

Air Quality
Sensors

>35yrs Experience founded 1988 >30

OEMs served

25

Countries with customers

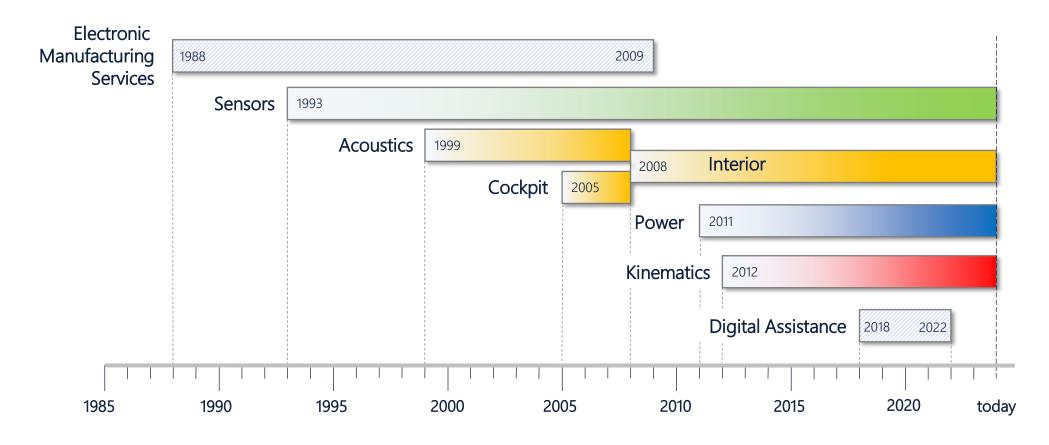
>8.5%

CAGR (2013-2023)





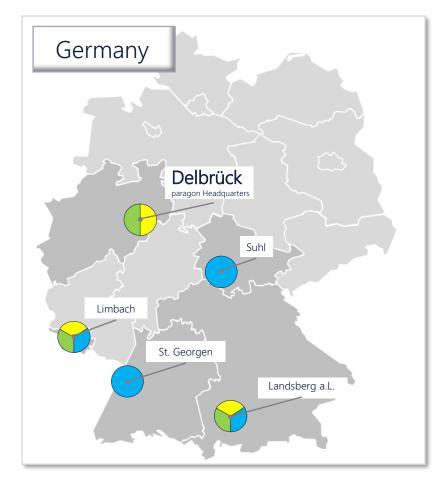
History of paragon



Since more than 35 Years, paragon has build-up an Automotive Tier 1 with Propriety Products

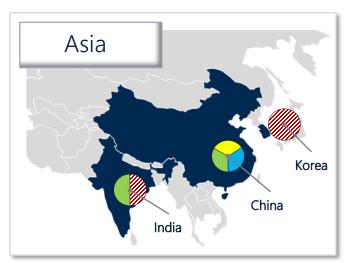
paragon_®

Global Footprint









R&D Sales

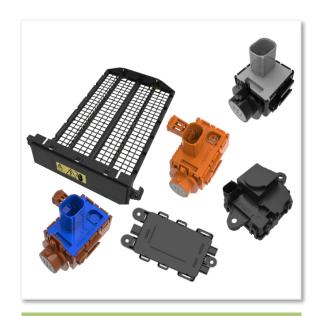
Production

Production (planned)
Joint Venture (planned)

PACAGON®

Product Portfolio Today - Overview





Sensors 26%*)



Interior 33%^{*)}



Kinematics 36%*)



Power 5%*)

In-Cabin Wellbeing

CO₂-Reduction



Product Portfolio Today - Sensors









Air Quality Sensor

Automatic control of the vehicle recirculation flap

Reduction of dangerous emissions inside the cabin

Advanced technology for detection of toxic gases and unpleasant smell

High-sophisticated SW-algorithms for detection of special traffic situations

Over 150 million pcs. produced

DUSTDETECT

Measurement of particulate matter outside and in-cabin

Exterior and interior installation

Laser sensor with optical particle counting

Size discrimination PM1, PM2.5 and PM10

DUSTPROTECT

High-voltage plasma filter cleans air inside vehicle's cabin by filtering particles and viruses

Much better than state of the art filtration systems

Saving space, energy, waste and costs in comparison to HEPA

Constant efficiency over lifetime

Air Quality Improver

Fresh air effect by artificial ionization

Enhancing of well-being of vehicle passengers

Fine dusts, gases and smells are bound by negative ions

Reduction of germs and bacteria in vehicle interior through physical air treatment

World market leader for In-Cabin Air-Quality



Product Portfolio Today - Interior









Loudspeakers

Broad product spectrum incl. sound systems and signal processing

Tweeters, midranges, woofers, subwoofers, headrest and ultimate speakers

Special solutions like exciters, air motion transformers, high-temperature exhaust speakers, external speakers for e-vehicles

Small to high volumes, entry to award-winning high-end levels

White label branding possible (e.g. B&O, Bespoke Audio, ETON)

Microphones

Multiple use cases such as voice assistance, vehicle noise control, handsfree and in-car communication, road and wind noise cancellation, external microphones for autonomous driving

Clever combination of acoustical mechanics and adaptive electronic filter

Very low wind sensitivity by active and passive elements

Analogue and digital interfaces

Cutting edge tech and efficient
manufacturing
In-Cabin Wellbeing

Instruments

Market leader with very well-known chronometers, analogue clocks, compasses and control applications

The choice for premium and luxury cars

Many more analogue and hybrid instruments for any use case

Own design team to meet any customer requirement

Inhouse stepper motor and plastic parts development and mass production

Wireless Charging

High efficiency wireless charger based on Qi-standard

Patented active cooling system

Self diagnostic

Member of Wireless Power Consortium (WPC) since 2013



Product Portfolio Today - Kinematics









Spoilers

Electro-mechanical systems for high variety of vehicles

Application in sportscars, hatch, station cars, SUVs, e-vehicles and trucks

High innovation and realization competence

Range extension for e-vehicle by reduction of air resistance

Actuators

Drive systems for active spoilers and seat adjustment

Integrated electronics and sensors for advanced vehicle architecture

Multi-stage gear reduction with powerful DC-motors

Fast operation of heavy loads

Folding Tables

Special folding system to minimize space

Various electronic interfaces (wireless charging, USB-C, displays and keyboards

Lightweight through use of magnesium and aluminum

Resists head impact

Meets various crash requirements

Special Kinematics

Tailor-made solutions with costeffective development

Electrical lowering mechanism of hood ornament

Anti-theft and pedestrian crash protection

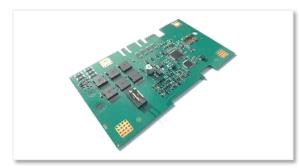
Wind deflectors for convertible cars and motorcycles

Easy operation with 3D-movement

High-sophisticated Kinematics for Exterior and Interior

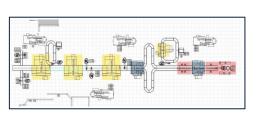


Product Portfolio Today - Power









Battery Management Systems

Huge background with ECU projects

Predictive algorithms

Intelligent balancing

SW-based safety concept incl. topedge SOC/SOH-calculation

New quiescent current concept (deep-sleep and transport modes for extended shelf life)

Traction Batteries

Lightweight concepts

Use of Flow-Shape-Design technology

Embedded battery safety

"Lord of the cells" battery management

Flow-Shape-Design

Expanded foam as case for battery systems and modules

Substitution of conventional metal housing

Less weight/space/costs

Absorption of shocks/vibration/temperature

Licenses available

Consulting

Technology transfer in regards of Flow-Shape-Design

Projecting and realization of production lines

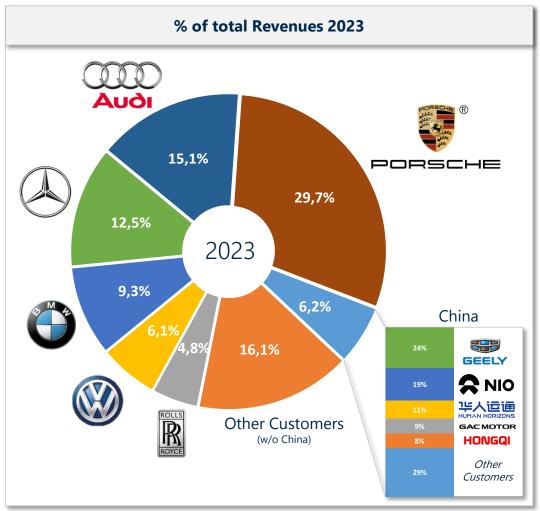
In-house production of test equipment

Turn-key projects

Game-Changing Battery Technologies



paragon's Premium Automotive Customers 2023



Tenure i	n Years
	> 28
	> 25
	> 23
ROLLS	> 21
LE SALE	> 20
	> 20
Single Sou	rce Quota
90%	

Comments

- paragon is a trusted partner and supplier of choice for global blue-chip customers
- Top 10 customers account for approx. 83% of the company's total revenue and have an average tenure of 17 years
- For the vast majority of customers (approx. 90%) paragon is the single source, demonstrating high satisfaction and loyalty
- As a midsize automotive **Tier 1-supplier**, paragon was able to successfully position itself in interesting growth segments
- Through the blue-chip customers, paragon has a broad network at the core of the automotive industry



FY 2023: Financial Highlights at a Glance

Top line stable at EUR 161.6m despite phase out of a sensor product Asset deal with Clarios lead to a profit in the mid single EURm range EBITDA (cont. business) at EUR 17.7m; EBITDA (group) at EUR 25.2m CHF-bond fully repaid; Start of buy-back program for EUR-bond Reduction of net debt by EUR 30m in one year



P&L Development paragon

Income Statement in MEUR	2022	2023
Revenues	160,7	161,6
Other own work capitalized	5,1	3,9
Change of finished goods	0,1	-1,5
Other operating income	4,6	12,1
Total operating performance	170,4	176,1
Costs of materials	-94,6	-91,5
Personnel expenses	-41,0	-44,2
Other operating expenses	-24,6	-22,7
EBITDA	10,2	17,7
Depreciation & amortization	-14,6	-16,6
EBIT	-4,4	1,1
EBITDA paragon semvox	4,7	7,6
Group EBITDA	14,9	25,2

-					-	
	△	m	m		nts	
_	u	ш		CI	ILS	

- Revenues stable at EUR 161.6m
- Reduction of own work capitalized due to higher reimbursements of development costs from customers
- Other operating income includes profit impact of asset deal with Clarios
- **EBITDA**:

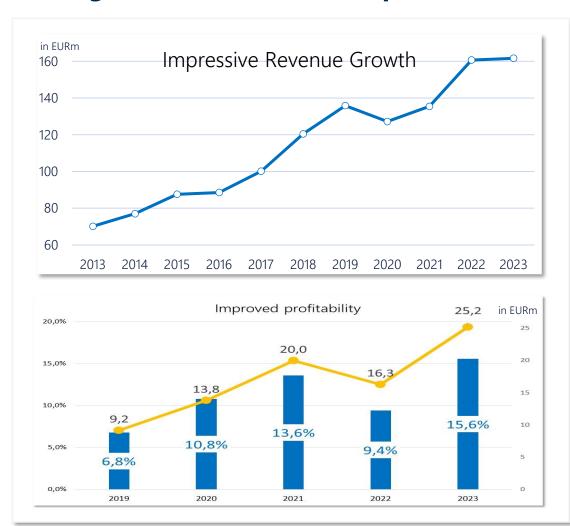
Continued operations: EUR 17.7m

paragon semvox: EUR 7.6m

Group level: EUR 25.2m



Strong Revenue Growth – Improved Profitability



Comments

Revenue Growth

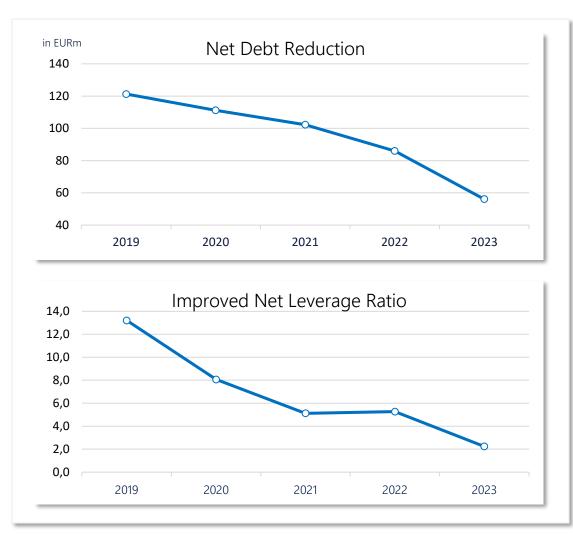
- paragon increased revenues due to its proven business model by more than 125% in the last ten years (CAGR 8.7%)
- paragon has demonstrated resilience during past global crises
- Revenues in 2023 amount to EUR 161.6m although...
 - paragon intentionally ended business with one sensor product by July 2023 (ca. EUR 1.2m/month) and
 - Business with low voltage batteries was sold to Clarios on Sept 30, 2023

Improved Profitability

- EBITDA in 2023 amounts to EUR 25.2m
- ☐ Thereof EUR 7.5m resulting from discontinued operations (prior year EUR 4.7m)



Substantial Debt Reduction



Comments

- Net Debt Reduction
 - Since end of 2019 net debt was reduced by more than 50% from EUR 121.3m to EUR 57.7m
 - Average monthly reduction in the last 48 months was EUR 1.3m
 - paragon has achieved a solid base
- _ Improved Net Leverage Ratio ("NLR")
 - □ NLR improved from 13.2 to 2.28 in the last four years due to reduced debt level and improved profitability
 - Interest rate of bond depends on net leverage ratio; NLR <2.5 led to an interest rate of 7.5% from Jan 5, 2024, on



News in 2023

Asset Deal with Clarios

- ☐ Closing on September 30, 2023
- ☐ Agreement includes sale of different production lines and transfer of a group of engineers and workers to Clarios
- paragon will remain manufacturer of battery management systems for Clarios
- ☐ Clarios licenses paragon's Flow-Shape-Design-Technology (FSD) for non-traction batteries
- paragon keeps the industrial property rights for FSD in regards of traction batteries



Director's Dealing

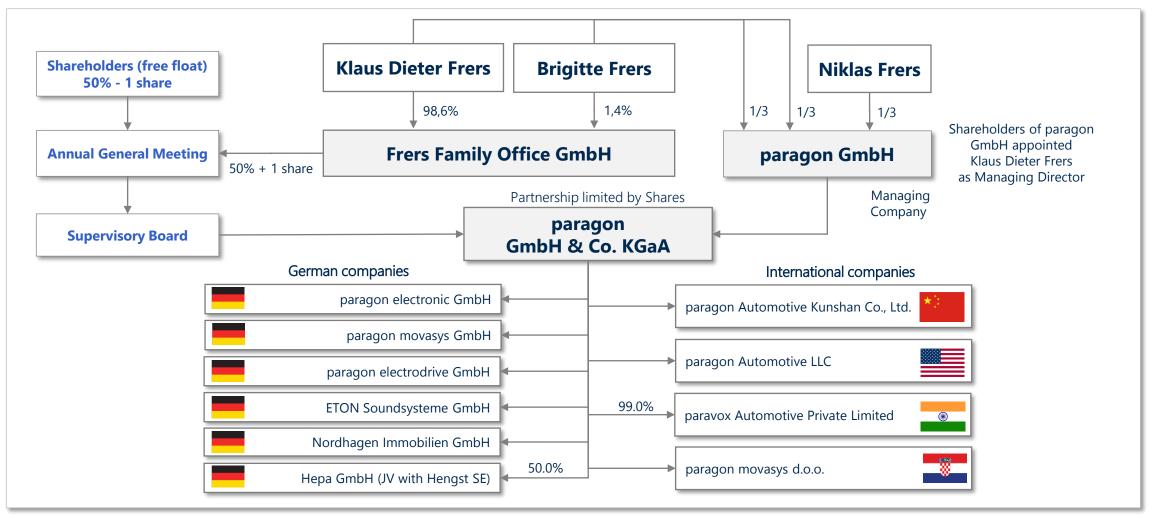
- September 29, 2023: Klaus Dieter Frers (Managing Director of paragon GmbH) bought back 1,355,000 paragon-shares from ElectricBrands AG for the same price (€ 4.53 per share) ElectricBrands AG acquired the package from him in November 2022 (Total purchase price: € 6,138,150)
- ☐ Klaus Dieter Frers, again, now has 50%+1 total voting rights (before: 20.06%) now transferred to Frers Family Office GmbH
- ☐ The German Federal Financial Supervisory Authority (BaFin) has exempted him from the obligations to publish a mandatory offer *)

*) Pursuant to section 35 (1) sentence 1 WpÜG and pursuant to Section 35 (2) Sentence 1 in conjunction with Section 14 (2) sentence 1 WpÜG and Section 37 (1) Var. 4 of the German Securities Acquisition and Takeover Act (Wertpapiererwerbs- und Übernahmegesetz, WpÜG)

The paragon-Story

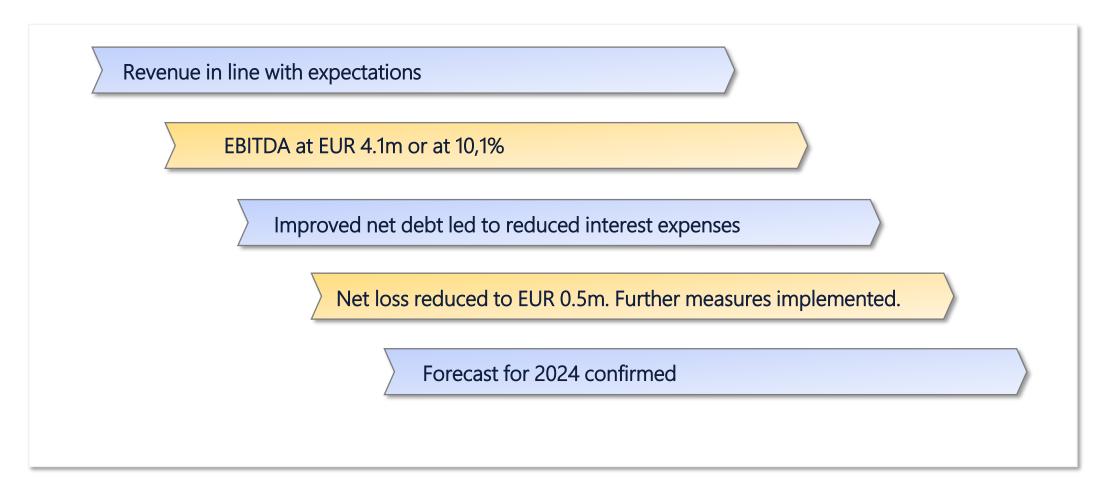


Corporate Organization ensures Stability





Q1/2024: Financial Highlights at a Glance





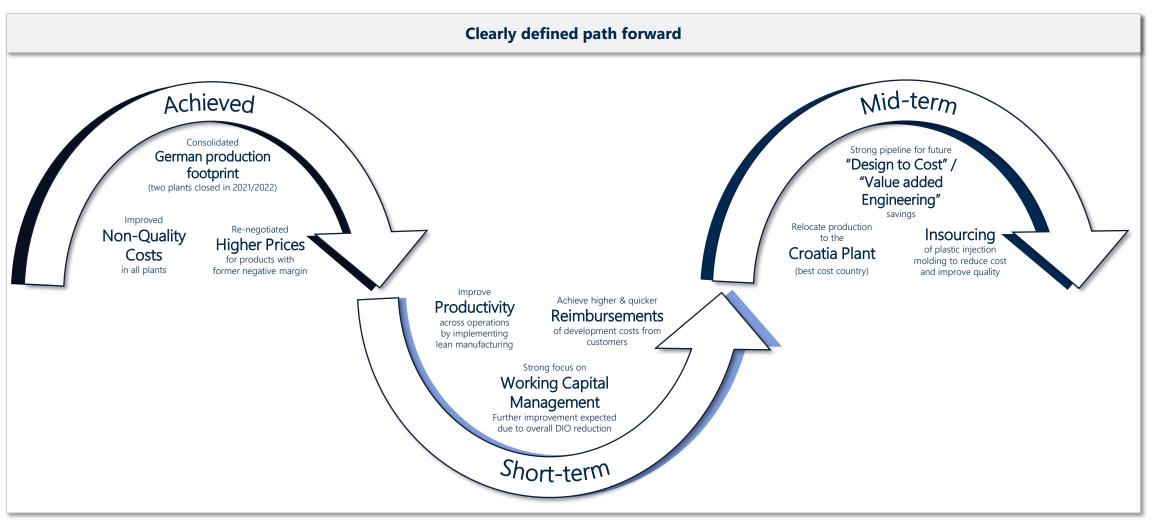
P&L Development paragon – First Quarter

Income Statement in MEUR	Q1/2023	Q1/2024
Revenues	44,7	40,9
Other own work capitalized	0,1	0,8
Change of finished goods	-0,8	0,6
Other operating income	1,7	0,6
Total operating performance	45,7	42,9
Costs of materials	-25,4	-23,6
Personnel expenses	-11,1	-10,7
Other operating expenses	-5,4	-4,5
EBITDA	3,8	4,1
Depreciation & amortization	-3,3	-3,2
EBIT	0,5	0,9
Interests	-3,0	-1,6
Taxes	0,2	0,2
Earnings (continued operations)	-2,3	-0,5

Comments
Revenue and profitability in line with expectation for the first quarter 2024.
Decline in revenue in line with expectation and due to scheduled discontinuation of a sensor product in summer 2023.
Interest costs reduced due to lower net debt level.
Net loss reduced. Further measures being implemented.



paragon's Substantial Operational Improvement Plan





Forecast for 2024 (confirmed)

Revenues 2024e

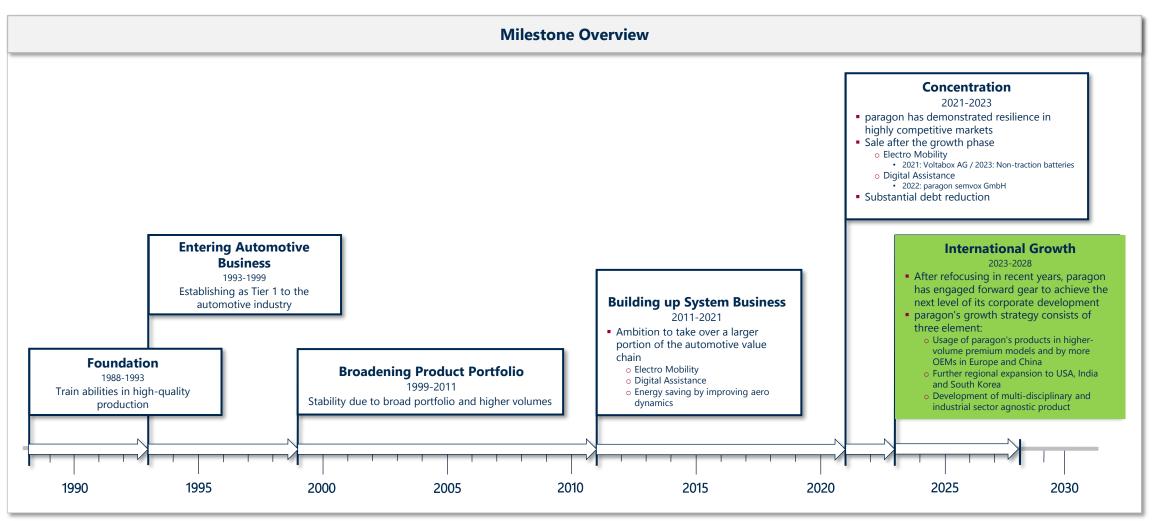
EUR 160 to 165m

EBITDA 2024e

EUR 18 to 20m



paragon's Growth Strategy has always Envolved

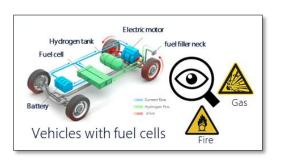


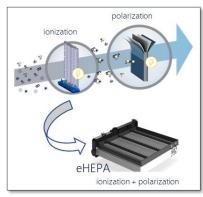


Strategy for paragon's ongoing Growth - Intensification of using Growth Drivers

Sensors

- Full roll-out of electric filter DUSTPROTECT
- eHEPA using DUSTPROTECT-technology for HEPA-filters to reduce their space needs
- Addressing the upcoming fuel-cell market with sensors for SO₂ (sulfur dioxide) and filter lifetime
- Next level of enhancing in-cabin air quality (sterilization / neuralization of odors)
- Infrared CO₂ and propane sensor for climate systems (actual cooling medium will be banned)





Kinematics

- More spoiler systems for e-vehicles as key for longer range
- Integrated seat-technology for more comfort and autonomous driving, e.g. folding tables (lunch tray, rear passengers; integrated charging, display, keyboard)
- Charging doors for e-vehicles
- Actuators (e.g. for smart doors)





Strategy for paragon's ongoing Growth - Intensification of using Growth Drivers

Interieur

- New technologies for a business with traditional imprinting due to thinking outside the box (clanging-free loudspeaker, high-quality subwoofer with mini space needs, external loudspeaker with horn function, green audio, lightweight)
- Shift away from combustion engines triggers OEMs to put more emphasis into acoustics
- Transfer of technology from home hi-fi into car hi-fi (e.g. Air-Motion-Transformer)
 - No other technology can replace loudspeakers!
 - o paragon's advantage: Outstanding know-how and reputation of loudspeakers for home hi-fi (ETON brand)
 - Loudspeakers will be one of paragon's TOP3 products in coming years (2026e-2029e: cumulative > EUR 200m)
 - Search started for location in best-cost-country for production of loudspeakers (ceasing supplies from China)

Subwoofer system









- Hybrid instruments (digital display as face of an analogue multi-use information device "Edwin")
- More (5...8) and better microphones per car (speech control, Edwin in-car communication, noise cancellation, sound bubble)
- Wireless charging of mobile devices with higher power



Wireless Charging

Power

- After selling the low-voltage battery business to Clarios, paragon remains Clarios' supplier for **Battery Management Systems** (BMS)
- paragon with its world-class smart technologies will play a role in the global **BMS-business** in future
- Main growth driver is the use of the game-changing **FSD-technologies** for traction batteries of vehicles







Flow Shape Design



Traction Batteries



Continuation of Regional Expansion





Executive Summary



Since more than 35 years, paragon has built an Automotive Tier 1 with proprietary Products

paragon at a Glance Well-established business model provides a strong foundation for further growth paragon has **demonstrated resilience** in highly competitive markets After refocusing in recent years, paragon is ready to achieve the next level of its corporate development

paragon's Growth Strategy

- paragon's growth strategy consists of three elements:
 - Usage of paragon's products in higher-volume premium models and by more OEMs in Europe and China
 - 2) Further **regional expansion** to USA, India and South Korea
 - 3) Development of multi-disciplinary and industrial sector agnostic products





Executive Summary



Since more than 35 years, paragon has built an Automotive Tier 1 with proprietary Products

paragon at a Glance

- Well-established business model provides a strong foundation for further growth
- paragon has **demonstrated resilience** in highly competitive markets
- After refocusing in recent years, **paragon is ready to** achieve the next level of its corporate development













paragon's Growth Strategy

- paragon's growth strategy consists of three elements:
 - Usage of paragon's products in higher-volume premium models and by more OEMs in Europe and China
 - 2) Further **regional expansion** to USA, India and South Korea
 - 3) Development of multi-disciplinary and industrial sector agnostic products







Disclaimer

- This presentation is given to you in strict confidence. By attending the presentation, you agree that no part of this presentation or disclaimer may be disclosed, distributed or reproduced to any third party without the consent of paragon GmbH & Co. KGaA ("paragon").
- This presentation is being provided for the sole purpose of providing the recipients with background information about paragon's business. This presentation, including the information contained in this disclaimer, does not constitute an offer, invitation or recommendation to subscribe for or purchase any security and neither the presentation, disclaimer nor anything contained in them forms the basis of any contract or commitment. This presentation does not purport to summarize all information that an investor should consider when making an investment decision. It should be read in conjunction with paragon's other continuous disclosure announcements. Before making an investment decision you should consider whether it is suitable for you in light of your own investment profile and objectives and financial circumstances and the merits and risk involved.
- No representation, express or implied, is made as to the fairness, accuracy, completeness or correctness of information, opinions and conclusions contained in this presentation, including the accuracy, likelihood of achievement or reasonableness of any forecasts, prospects, returns or statements in relation to future matters contained in the presentation ("forward-looking statements"). Such forward-looking statements are by their nature subject to significant uncertainties and contingencies and are based on a number of estimates and assumptions that are subject to change (and in many cases are outside the control of paragon and its Directors) which may cause the actual results or performance of paragon to be materially different from any future results or performance expressed or implied by such forward-looking statements. Forward looking statements are provided as a general guide only and should not be relied upon as an indication or guarantee of future performance.
- _ To the maximum extent permitted by law, neither paragon nor its related corporations, directors, employees or agents, nor any other person, accepts any liability, including, without limitation, any liability arising from fault or negligence, for any loss arising from the use of this presentation or its contents or otherwise arising in connection with it.
- _ You represent and confirm by attending and/or retaining this presentation, that you accept the above conditions.

