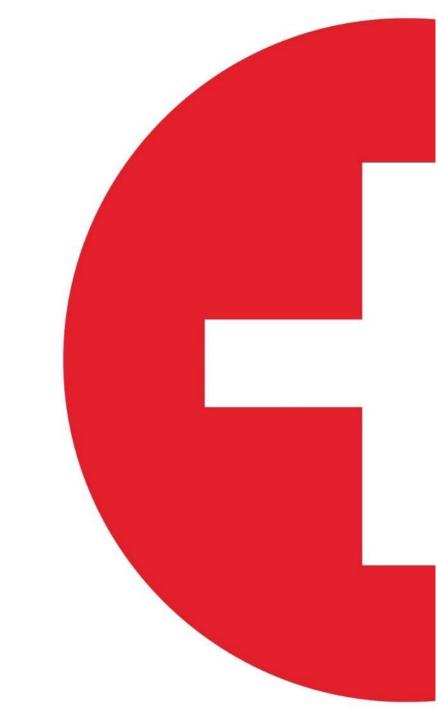
**E-Mobility** 

# "Pure Play"

Financial Year 2017

March 2018





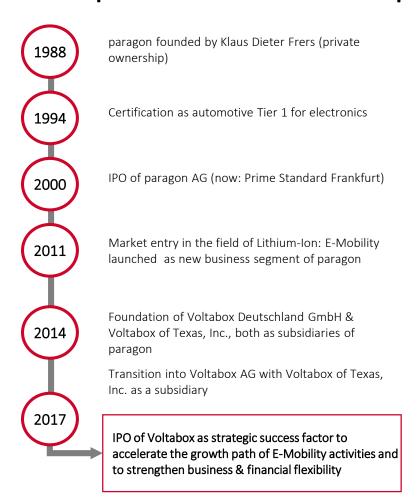


## Agenda

- Introduction of Voltabox
- Business Overview
- Financials



## Corporate Development

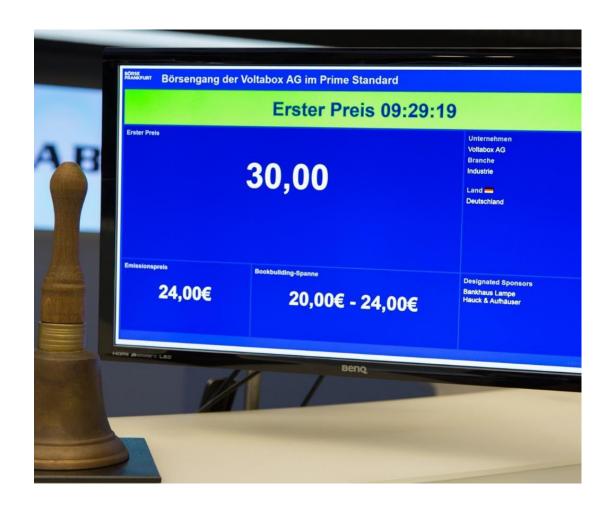






# Voltabox IPO (Oct. 13, 2017)

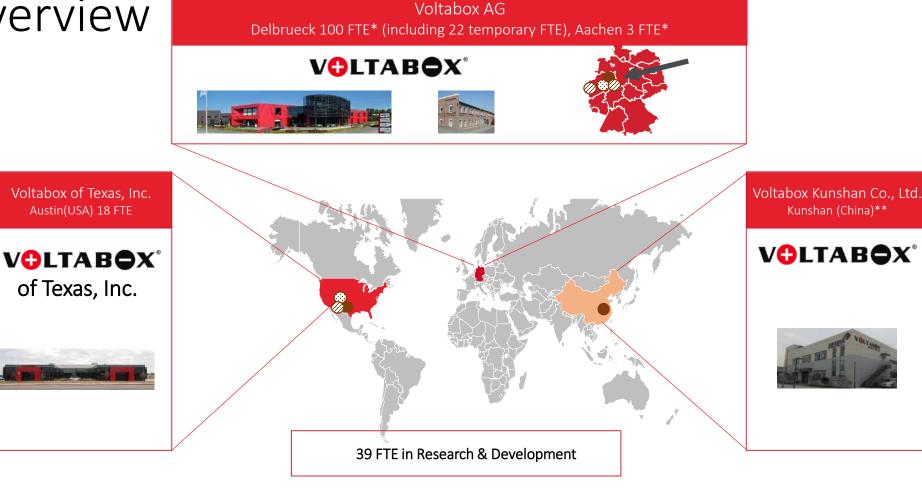
- Placement at € 24 per share (order book 10 times covered)
- Net proceeds for Voltabox AG: € 133.5m
- Net proceeds for paragon AG: € 11.5m (plus €15m shareholder loan repayment)
- Current market capitalization\*: € 370.6m
- paragon AG holds 60% of Voltabox shares
- Bankhaus Lampe acted as Sole Global Coordinated and together with Hauck & Aufhäuser as Joint Bookrunner





#### **Location Overview**

 With hubs and state-of-the-art production facilities in Germany & USA and future capacities in China, Voltabox is well positioned to grow its business on a global scale



Administration Production R&D Current Voltabox Loc. Future Voltabox Location

\*Full time equivalent (FTE), as of Dec. 31, 2017

<sup>\*\*</sup>In the course of formation



## Management Team

#### Management Board



Jürgen Pampel, CEO

- Former Head of Electromobility business unit at paragon
- Various leadership positions at paragon since 2004
- Six Sigma Master Black Belt; expert for business process development and optimization
- Design Engineering graduate



**Andres Klasing, CFO** 

- Joined Voltabox in 2017
- Former Head of Accounting & Controlling at paragon since 2016
- Various positions as Head of Controlling / Finance inter alia for Bertelsmann group
- Business administration (VWA) / Engineer (FH) graduate

#### Supervisory Board



Klaus D. Frers, Chairman

- Founder / majority owner & CEO of Automotive Tier 1 paragon AG
- Former CEO of Voltabox
- Received numerous awards for entrepreneurial activities
- Leadership positions at AEG-Telefunken and Nixdorf Computer
- Mechanical Engineering graduate



Prof. Dr. Martin Winter (Deputy Chairman)

- Professor at the Institute of Physical Chemistry at the University of Münster
- One of the most renowned
  German scientists in the energystorage field with a focus on
  Lithium-Ion batteries



Hermann Börnemeier

- Shareholding director of Treu-Union Treuhandgesellschaft mbH, a tax consultancy
- Long-term advisor to the parent company paragon AG

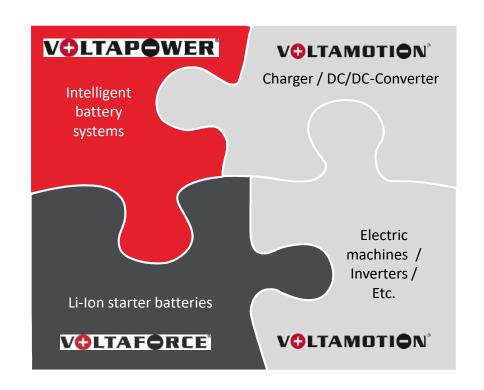


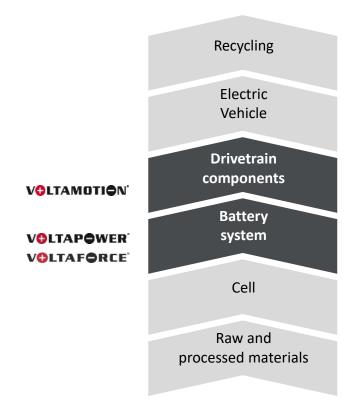
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## E-Mobility Pure Play









#### Value Contribution

Solution

- Tailored configuration
- Configuration of best solution (given the customer use case), based on own simulation tool
- Design and development of customer-specific battery systems, based on modular kits
- Project management
- After Sales: service and customer support, refurbishment schedule offered

System

- TAMPLE

  Battery

  Modules

  W/BMS

  Sensors

  Resistors,
  Fuses

  Evaporator

  Converter

  Box Compressor

  Electronics Box

  W/ Master BMS
- Proprietary, highly sophisticated
   Battery Management System (BMS)
- Own Temperature Management System
- Proprietary safety concept
- Cell-agnostic approach:
  - Prismatical cells; 26650 cylindrical cells; pouch cells to follow end of 2017
  - Cell chemistries: NMC, LFP, LTO
  - Different cell suppliers: Samsung SDI, Toshiba, K2, A123, Valence, CATL, and XALT



## Market Penetration by Voltabox











Schäffer

Today:

- Q2 2014: First major US-contract for battery systems in trolleybuses
- Q1 2015: Strategic partnership to enter the fragmented forklift market (intralogistics)
- Q2 2016: Exclusive strategic partnership with leading mining equipment provider
- Q4 2016: Expansion of intralogistics market with batteries for Automated Guided Vehicles
- Q3 2017: First selected mass market entry with starter batteries for motorbikes
- Q4 2017: First strategic partnership in the area of agriculture and construction

Significant future growth prospects already backed by strong lifetime order backlog of € 1.007bn\*

\* As of Dec. 31, 2017 (thereof 77% signed framework contracts).



## Market Potential for Voltabox

Battery market value by end markets (USD bn.)\*

- Overall usage of batteries will increase due to e-mobility mega trend
- Ongoing substitution of lead acid batteries resp. diesel generators by lithium-ion batteries in occupied submarkets
- 11% global market growth expected for battery systems in current Voltabox end markets in 2018

Current Voltabox end markets HEV/PHEV buses over 5 meters, forklift/intralogistics, mining vehicles/equipment

#### Future Voltabox end markets

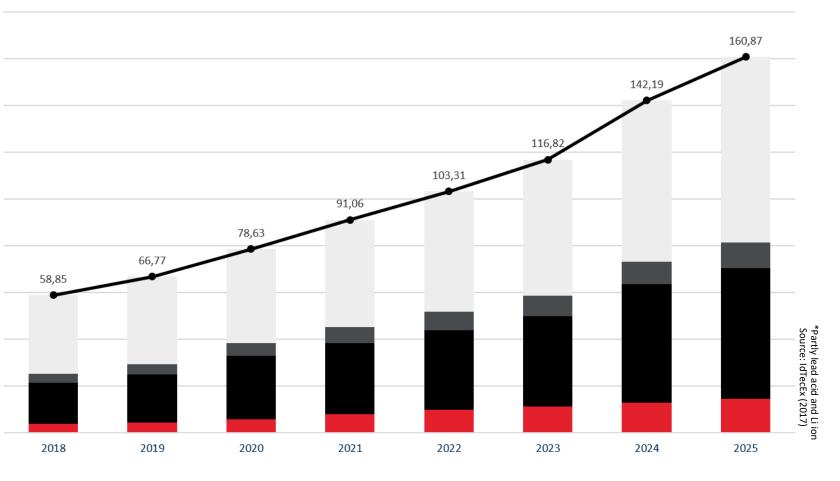
Construction & agriculture, Pure Electric Buses over 5 meters, Airport, Car (hybrid) – PHEV, microEV, etc.

#### Further potential Voltabox end markets

Delivery trucks & other onroad excl. buses, indoor cranes/platform lifters, pedelecs/e-bike, motorbike, etc.

#### Others

Pure electric cars (premium & mainstream), microEV – 3 wheel & rickshaw, wearables, consumer, military, etc.





## Voltabox Growing Into a New Dimension

#### New facilities

- Space expansion for R&D / office & production
- Foundation of Voltabox in Kunshan, China (3,400m<sup>2</sup> space)

## More engineering resources

R&D staff to increase to 70 employees in FY 2018

#### New products

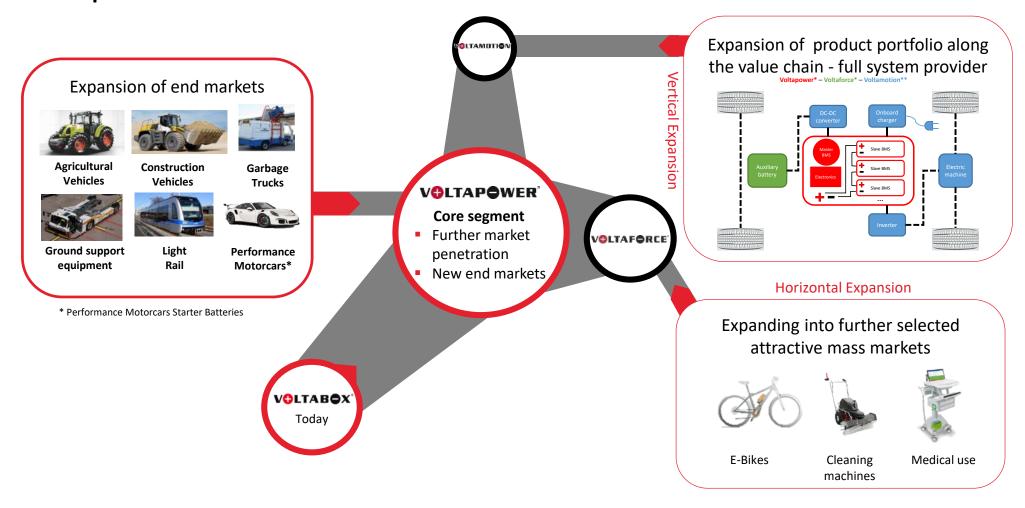
- Expanding product portfolio into selected mass markets
- Entering into new market segments (i.e. agriculture)

#### Filled M&A pipeline

Working on attractive M&A opportunities (short list)



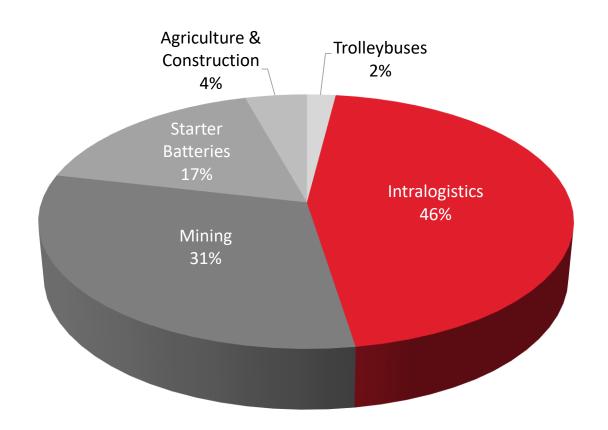
## Multiple Growth Paths





## 5-Year Order Backlog\* (2018 – 2022)

- €1.007bn. (thereof +77% signed framework contracts)
- Estimated order backlog is weighted according to the expected lifetime and the probability of occurrence
- Consistent evaluation system in place since inception in 2011





## Agenda

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## Highlights of the Financial Year 2017

#### Strong Financial Position

- Equity ratio of 90.8 % (equity:
   € 154,990 million)
- Liquid funds of € 102.7 million

#### Increasing Profitability

- EBITDA increased 240,9 % to € 3 million
- EBIT margin at 2.1 %

#### Dynamic Top Line Growth

 Group revenue increased 88.2 % to € 27.3 million

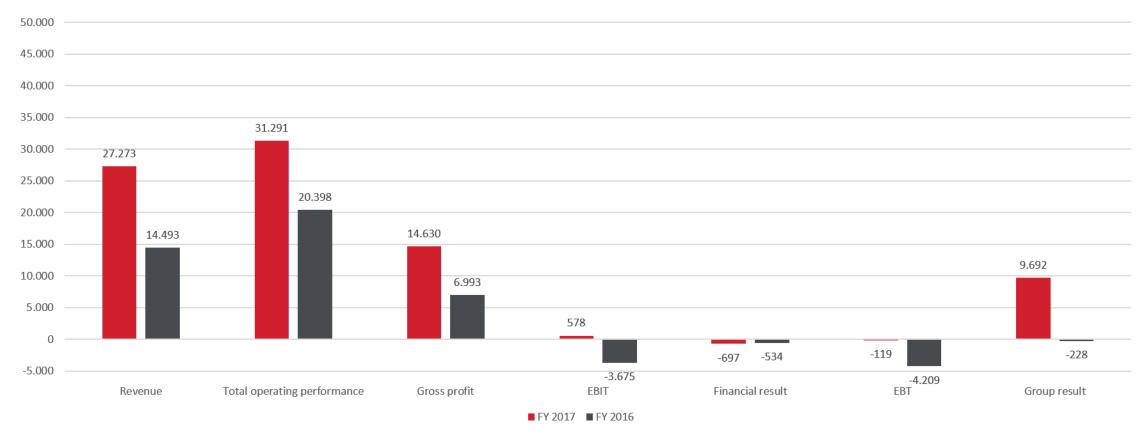
#### Set for Future Growth

- Launch of a new R&D site in Aachen
- € 5.2 million internal R&D (R&D ratio 19.0 %)



## Top Line Growth with Increasing Profitability

Selected parameters from the consolidated income statement of Voltabox AG





#### Well Balanced Net Assets and Financial Position



Noncurrent assets

Current assets

€ 31.1m

€ 139.6m



€ 155.0m Equity

Noncurrent provisions and liabilities € 8.4m

Current provisions and liabilities € 7.4m

Voltabox invested in the further expansion of business activities

- Development work capitalized: € 5.2m
- Sufficient liquid funds of € 102.7m due to the IPO

#### **Balance Sheet Total**

(Accounting date: Dec. 31, 2017)

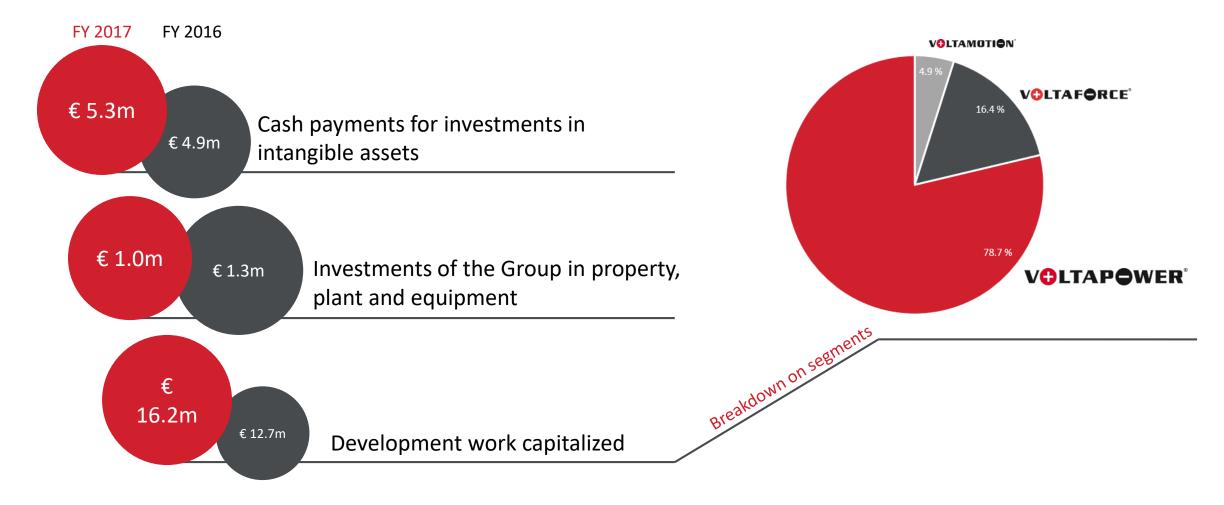
Assets + equity and liabilities € 170.8m

(2016: € 39.0m)

- Capital reserve increased to € 126.4m
- Significant reduction of noncurrent provisions and liabilities



## Investments as a Key Factor for Expansion of the business





Free

Cashflow:

€ -20.9m

(2016: € 0.4m)

#### Cash Flow

- Significant increase in trade receivables owing to strong revenue in Q4/17
- Reduction in trade payables as planned in consequence of the IPO
- Increase in payments for investments in intangible assets by 9.0% amounting to € 5.3 million (prior year: € 4.9 million)
- Increased amortization of noncurrent fixed assets
- Cash and cash equivalents increased to € 102.7 million as of the end of the reporting period (prior year: € 0.9 million)

€ -15.0m

(2016: € 6.6m)

Cash flow from operating activities

€ -6.0m

(2016: € -6.2m)

Cash flow from investment activities

€ 122.7m

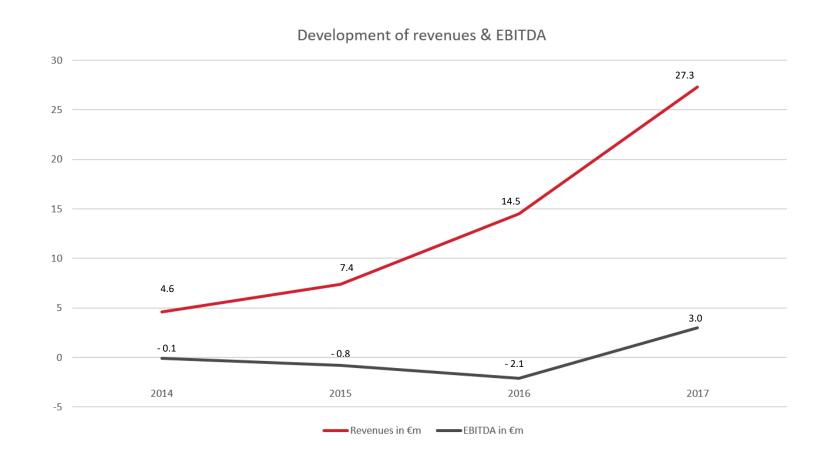
(2016: € -0.2m)

Cash flow from **financing activities** 



## Development of Revenues and EBITDA

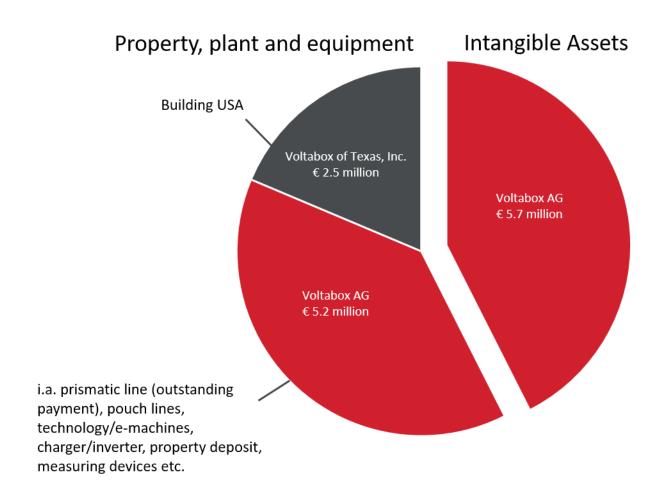
- Jump in revenue about 88.2 % to
   € 27.273 million
- EBITDA up 240.9 % to € 3.008 million
- EBITDA margin at 11.0 % (previous year: -14.7 %)





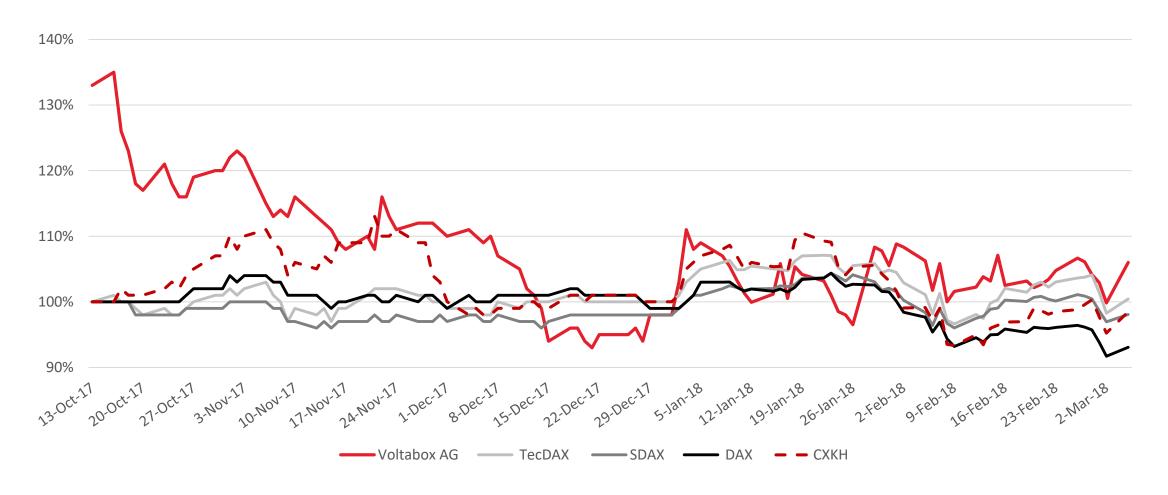
#### Investment Plan 2018

- Total investment volume of € 13.4 million in 2018
- Thereof € 10.9 million in Germany and € 2.5 million in the US
- Capitalized development costs expected to increase by 6.6%





## Performance of Voltabox Share (VBX)





## Forecast and Analyst Consensus

Financial performance indicators of Voltabox AG	2017		2018
[in € million / as indicated]	Forecast	Results	Forecast
Group revenue	25	27*	Approx. 60
EBIT margin	Slightly positive	2.1%	Approx. 10%
Analyst estimates	2017		2018
Group revenue	25.5		58.2
EBIT margin	0.8%		10.1%

<sup>\*</sup> Thereof around € 2 million with parent company paragon AG.



## Financial Calendar

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
<ul><li>Mar. 13,</li></ul>	Annual report 2017
Apr. 18-20,	Bankhaus Lampe Deutschlandkonferenz, Baden-Baden
<ul><li>May 8,</li></ul>	Interim release as of March 31 – 3 months
<ul><li>May 9,</li></ul>	Annual general meeting, Delbrück
<ul><li>May 16,</li></ul>	Berenberg Investor Forum at The Battery Show, Hannover
<ul><li>Jun. 7,</li></ul>	quirin Champions 2018, Frankfurt am Main
<ul><li>Jun 21/22</li></ul>	Berenberg Pan-European Discovery Conference
<ul><li>Aug. 21,</li></ul>	Interim release as of June 30 – 6 months
■ Sep. 3/4	Equity Forum Herbstkonferenz, Frankfurt am Main
Nov. 13,	Interim release as of September 30 – 9 months
Nov. 26-28,	Deutsches Eigenkapitalforum 2018, Frankfurt am Main



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