



Investor/Analyst Presentation

June 2018







Executive Summary: Highlights Q1/2018

7 € 5.1 million 7 23 %

7 108 employees

Revenues (previous year: € 4.1 m)

(previous year: 72)

Successful Growth

7 97 % **₹ -0.0** million

EBITDA (previous year: € -0.8 m)

7 € -0.8 million ^{7 33 %}

EBIT (previous year: € -1.2 m)



Agenda

- Introduction of Voltabox
- Business Overview
- Financials

Corporate Development

- Mother company paragon founded by Klaus Dieter Frers (as private ownership)
- Certification as automotive Tier 1 for electronics
- IPO of paragon AG at Frankfurt Stock Exchange (now: Prime Standard)
- Market entry into Lithium-Ion Batteries:
 E-Mobility launched as a new business segment of paragon AG
- Foundation of Voltabox as legal entities in Germany and the US (100% subsidiaries of paragon AG)
- Voltabox IPO in Frankfurt after change of legal form into a stock corporation with Voltabox of Texas, Inc. as a 100% subsidiary
- Acquisition of Concurrent Design, Inc. (engineering design services company) to accelerate growth



1988

1994

2000

2011

2014

2017

2018





Management Team

Management Board



Jürgen Pampel, CEO

- Former Head of Electromobility business unit at paragon
- Various leadership positions at paragon since 2004
- Design Engineering graduate



Andres Klasing, CFO

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



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



Supervisory Board

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

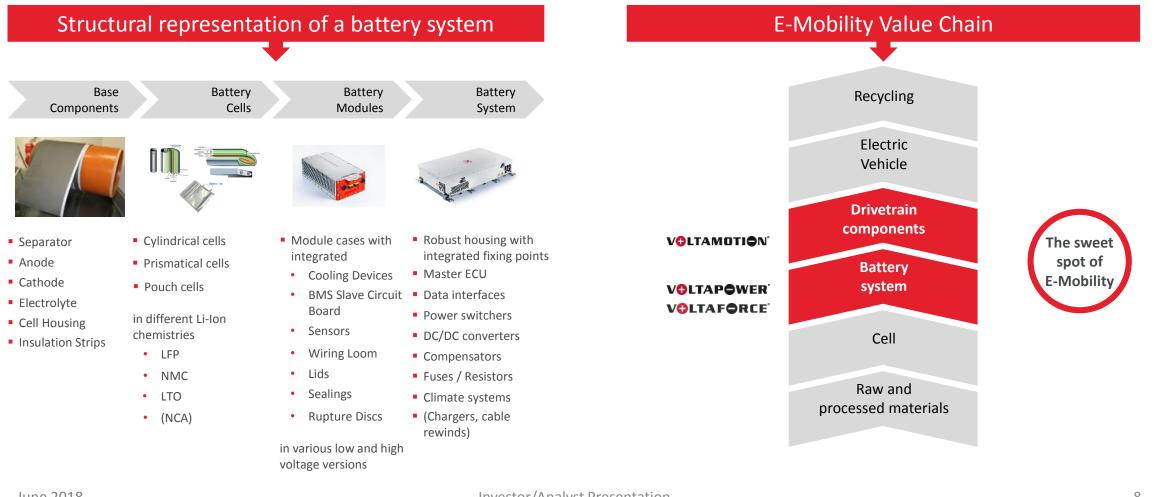


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E-Mobility Pure Play



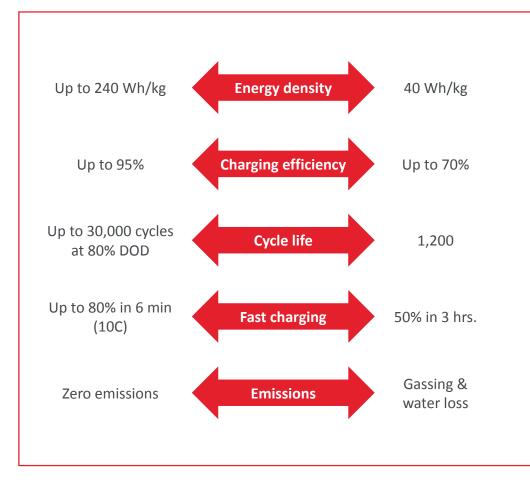


Li-Ion vs. Lead-Acid Technology



Additional advantages:

- No memory effect (opportunity charging)
- Very low self-discharge
- No maintenance
- Full functionality at low temperatures
- Optimum control and (remote) monitoring





Li-Ion-Battery Technology Overview

Available Li-Ion Cell Chemistry

- Li-Ion chemistries are replacing the leading battery technologies of the past like Nickel-Metal Hydride, Nickel Cadmium and Lead-Acid
- Future technological developments are also carefully tracked and evaluated by Voltabox
- New lithium based technologies like Li-Air, Li-Sulfur and Lithium Solid State cells are expected to achieve market readiness around 2023



Li-Ion Cell Chemistry Types used by Voltabox

Lithium Iron Phosphate (LFP)

- Nominal cell voltage: 3.2 V to 3.3 V
- No risk of thermal runaway (in case of an accident)
- High cycle stability of up to 4,000 cycles at 80% DoD
- Large operating temperature range -20/+ 55 °c
- High energy density (125 Wh/kg and 292 Wh/l)
- Using only a small portion of rare earths

Nickel Manganese Cobalt (NMC)

- Nominal cell voltage: 3.6 V to 3.7 V
- High cycle stability of at least 6,000 cycles at 80% DoD
- Great operating temperature range of -30/+ 60 °C
- High energy density (136 230 Wh/kg and at least 309 Wh/l)

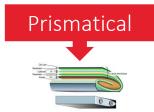
Lithium Titanium Oxide (LTO)

- Nominal cell voltage: 2.3 V
- Highest cycle stability of up to 30,000 cycles at 80% DoD
- High level of safety thanks to LTO anode
- Great operating temperature range of -30/+ 55 °C
- Energy density of 96 Wh/kg or 202 Wh/l
- Great SoC range useable with the highest performances

Agnostic Approach to Cell Types



A spirally wound design (jelly-roll). Designated by size, e.g. 26650 cylindrical battery (Diameter: 26mm, length: 65.2 mm; code for cylindrical shape: 0)



A prismatical design indicate a flat battery design. The stacks can be wound (as shown in the photo) or stacked (with alternating cathode/separator/anode structure). The stacks are usually inserted into rigid casing to form prismatic



Rather than rigid metallic casing, conductive foil-tabs are welded to the electrodes and seal the battery fully. The tacks inside can be wound or stacked. Swelling and gassing could be a concern for pouch cells

Cell Package	Impedance	Thermal	Tabbing	Cell Cost	Battery Cost
Cylindrical	Poor	Poor	Minimal	Medium	High
Prismatical (Wound)	Poor	Poor	Minimal	Medium	Medium
Prismatical (Stacked)	Good	Poor	High	High	Medium
Pouch (Wound)	Poor	Good	Minimal	Medium	High
Pouch (Stacked)	Good	Good	High	High	High

Source: IDTechEx

Li-Ion Battery System Supplier for Industrial Applications

- Many years of experience in development and production of electronic components (via parent company paragon AG)
 - Exceptional integration power (experience in automotive interfaces)
 - Mindset focus on applications (authentic added value solutions)
 - Superior realization processes (short time-to-market with modular kit)





Market Penetration by Voltabox

KIEPEELECTRIC	Q2 2014: First major US-contract for battery systems in trolleybuses
	 Q1 2015: Strategic partnership to enter the fragmented forklift market (intralogistics)
KOMATSU	 Q2 2016: Exclusive strategic partnership with leading mining equipment provider
KUKA	Q4 2016: Expansion of intralogistics market with batteries for Automated Guided Vehicles
BMW Motorrad	Q3 2017: First selected mass market entry with starter batteries for motorbikes
_Schäffer	Q4 2017: First strategic partnership in the area of agriculture and construction
Concurrent Design	 Q1 2018: Acquisition of the engineering services provider Concurrent Design
Today:	Significant future growth prospects already backed by strong lifetime order backlog of € 1 billion*

- ontract for battery systems in trolleybuses
- rship to enter the fragmented forklift market (intralogistics)
- ic partnership with leading mining equipment provider
- ralogistics market with batteries for Automated Guided Vehicles
- ass market entry with starter batteries for motorbikes
- irtnership in the area of agriculture and construction

* As of Mar. 31, 2018 (weighted acc. to probability of



Business Segments & End Markets

VCLTAPOWER[°]



Trolleybuses
Order backlog:*
€ 20 million

Intralogistics
Order backlog:*
€ 460 million



Underground Mining
Order backlog:*
€ 310 million



Agriculture & Construction • Order backlog:* € 40 million

VCLTAFCRCE[°]



Starter Batteries
Order backlog:*
€ 170 million

VUTAMOTION°



 Power Electronics
 Catalyst to Voltapower Segment

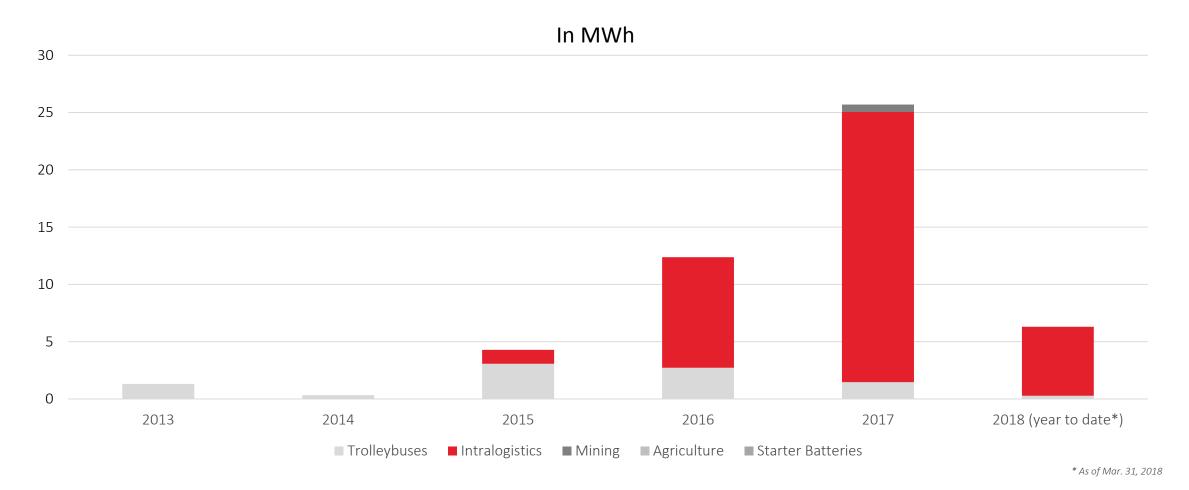


Full service provider for electrification of vehicles

* As of Mar. 31, 2018



Installation of Energy by End Markets





Market Potential for Voltabox

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

Overall usage of batteries will 160,87 increase due to e-mobility mega trend 142,19 Ongoing substitution of lead acid batteries resp. diesel generators by lithium-ion batteries in occupied 116.82 submarkets 103,31 11% global market growth expected 91,06 for battery systems in current 78,63 Voltabox end markets in 2018 66,77 Further potential Voltabox **Current Voltabox end** 58,85 markets end markets HEV/PHEV buses over 5 Delivery trucks & other onroad excl. buses, indoor meters. forklift/intralogistics, cranes/platform lifters, Source: IdTechEx (2017) pedelecs/e-bike, motorbike, mining vehicles/equipment etc. Future Voltabox end Others markets Pure electric cars (premium Construction & agriculture, & mainstream), microEV – 3 Pure Electric Buses over 5 wheel & rickshaw. meters, Airport, Car (hybrid) wearables, consumer, - PHEV, microEV, etc. military, etc. 2020 2021 2022 2025 2018 2019 2023 2024

*Partly Lead Acid and Li Ion

Investor/Analyst Presentation



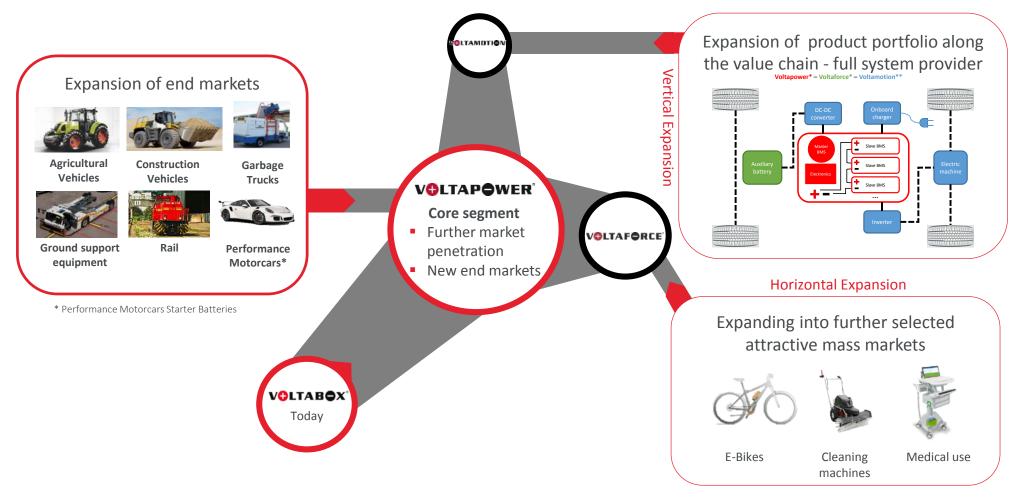
Voltabox Growing Into a New Dimension



- Space expansion for R&D / office & production
- Foundation of Voltabox Kunshan Co., Ltd., China (3,400m² space)
- R&D staff to increase to a total of 70 employees in FY 2018
- Expanding product portfolio into selected mass markets
- Entering into new market segments (i.e. agriculture, rail)
- Working on attractive M&A opportunities (short list)



Multiple Growth Paths





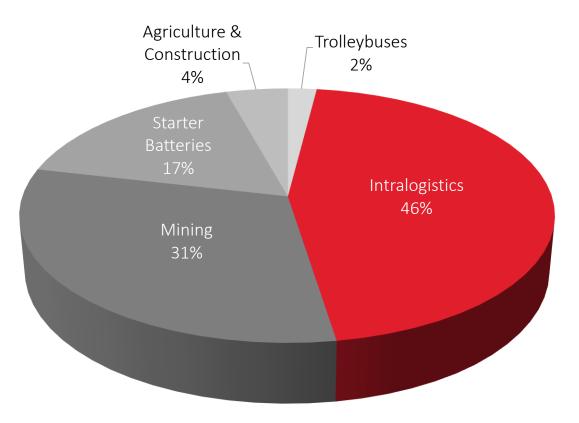
USPs of Voltabox





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



* As of Mar. 31, 2018

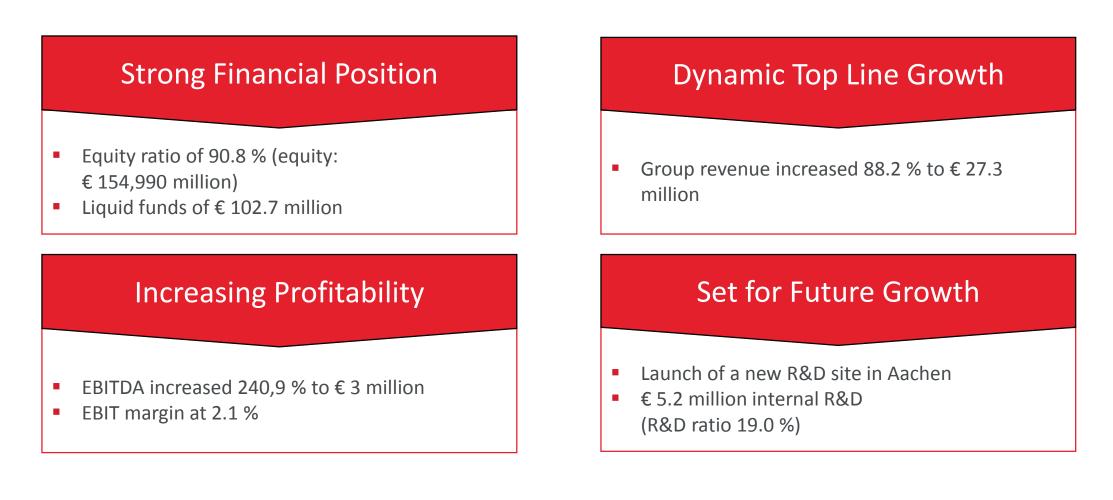


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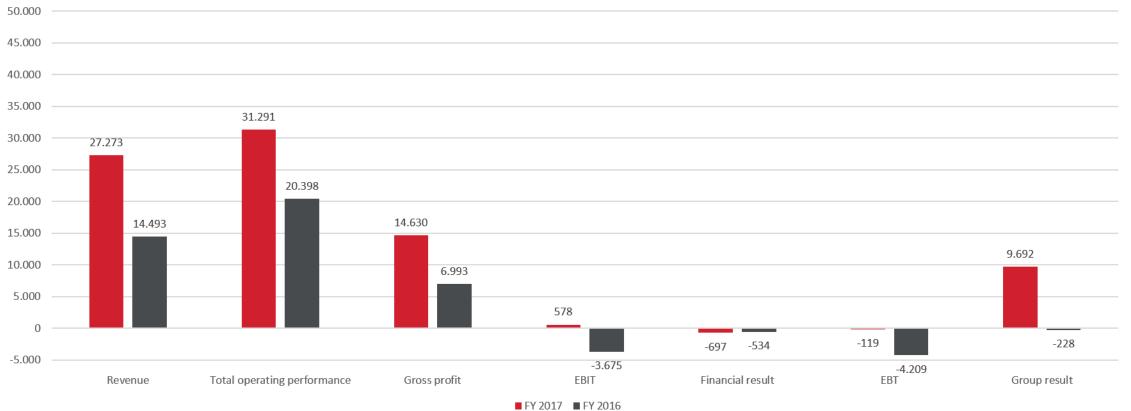
Highlights of the Financial Year 2017





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 € 31.1m
- Current assets € 139.6m



- Equity € 155.0m
- 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

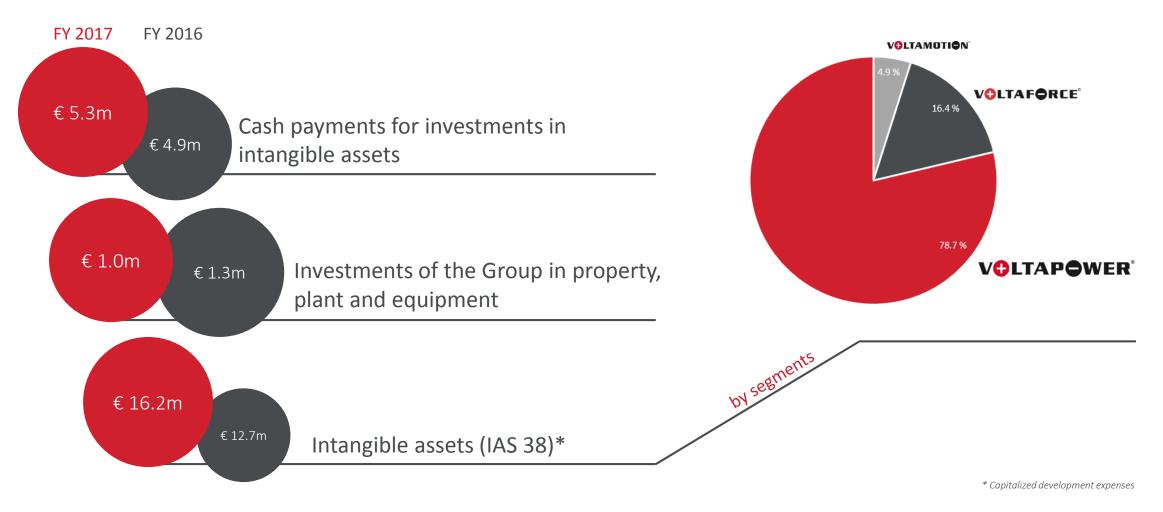
(Accounting date: Dec. 31, 2017)

 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



New R&D Capabilities: Takeover of Concurrent Design

Concurrent Design is an engineering services provider located in Austin, Texas with proven and long-standing expertise in R&D

employees, mostly engineers, software developers & project managers

More than 20 highly skilled

Expertise from more than 1,700

successfully completed projects

Multiple boost of

velocity for Voltabox by additional resources



It's the first acquisition for Voltabox in this field since its successful IPO. Negotiations for further acquisitions within the scope of the defined growth strategy are already at an advanced stage.



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	€ -6.0m	€ 122.7m	
(2016: € 6.6m)	(2016: € -6.2m)	(2016: € -0.2m)	
Cash flow from operating activities*	Cash flow from investment activities*	Cash flow from financing activities*	

Free

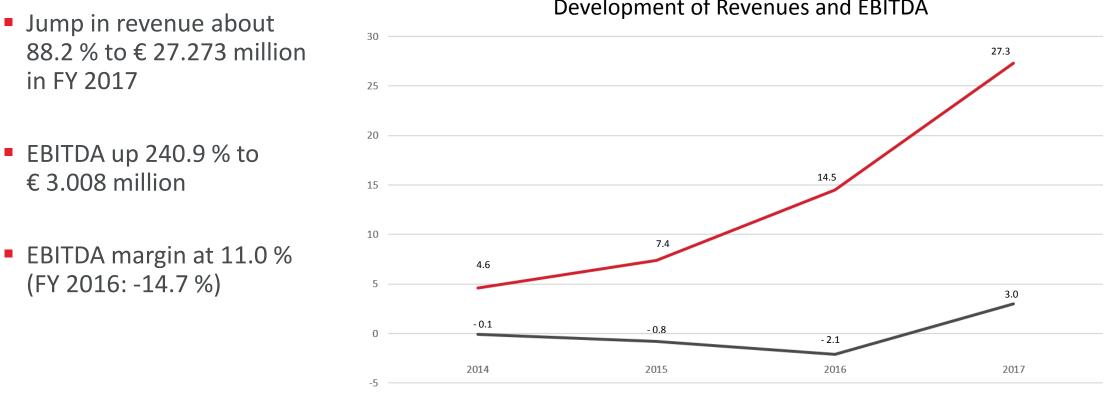
Cashflow:

€-20.9m

(2016: € 0.4m)



Development of Revenues and EBITDA

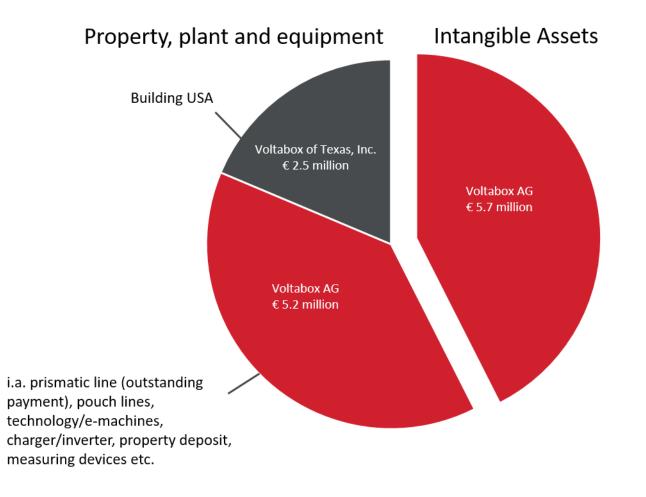


Development of Revenues and EBITDA



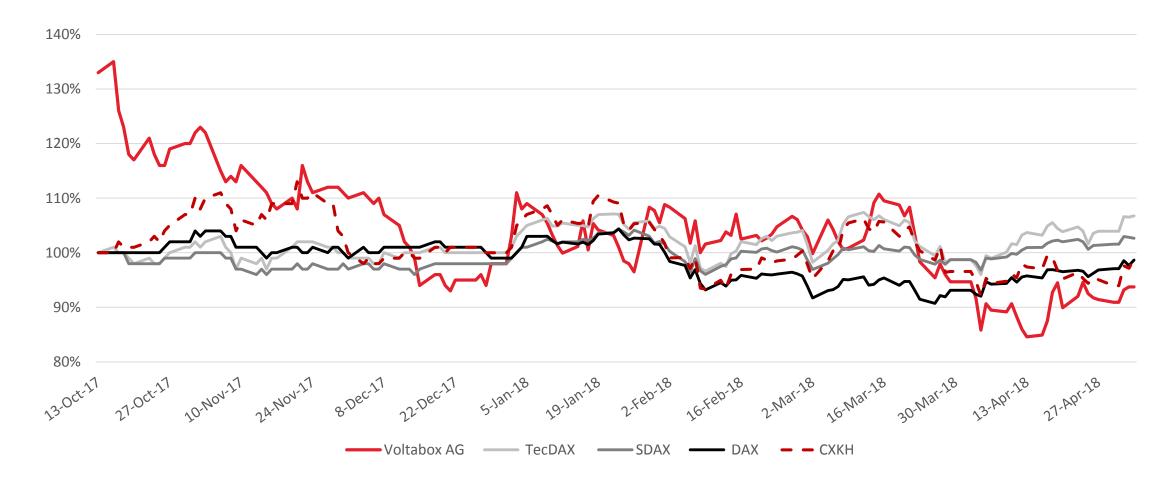
Investment Plan 2018

- 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 2018

7 € 60 m

Revenues 2018 (e)

7 ca. 10 %

EBIT margin 2018 (e)



Forecast and Analyst Consensus

Financial performance indicators of Voltabox AG	2017	7	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%



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
 Mar. 13, 	Annual report 2017
 Apr. 18-20, 	Bankhaus Lampe Deutschlandkonferenz, Baden-Baden
 May 8, 	Interim release as of March 31 – 3 months
 May 9, 	Annual general meeting, Delbrück
 May 16, 	Berenberg Investor Forum at The Battery Show, Hannover
 Jun. 7, 	quirin Champions 2018, Frankfurt am Main
 Jun 21/22, 	Berenberg Pan-European Discovery Conference
 Aug. 21, 	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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