

"Pure Play"

Investor/Analyst Presentation

Roadshow: H1 2018 – Group Interim Report







Executive Summary: Highlights H1/2018

7^{71%} **7**€ 18.1 million

7 144 employees

Revenues (previous year: € 10.6 m)

(June 30, 2017: 78)

On the way to a new level

EBITDA (previous year: € 0.2 m)

7 € 0.1 million

EBIT (previous year: € -0.7 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 (now paragon GmbH & Co. KGaA) 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
- Acquisitions of Concurrent Design, Inc. and of Navitas Systems, LLC. marking key milestones in M&A growth strategy
- Rearrangement of intralogistics partner agreement to occupy a leading market position / Start of direct sales in the intralogistics market



1988

1994

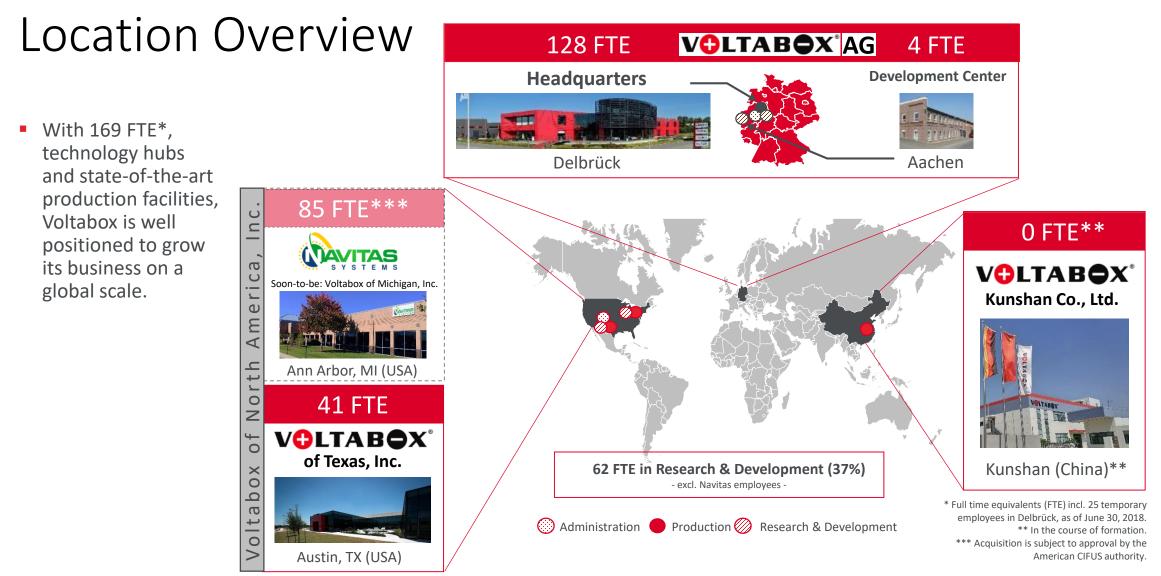
2000

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

Supervisory Board



Klaus D. Frers, Chairman

- Founder / majority owner & CEO of Automotive Tier 1 paragon GmbH & Co. KGaA
- 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 GmbH & Co. KGaA

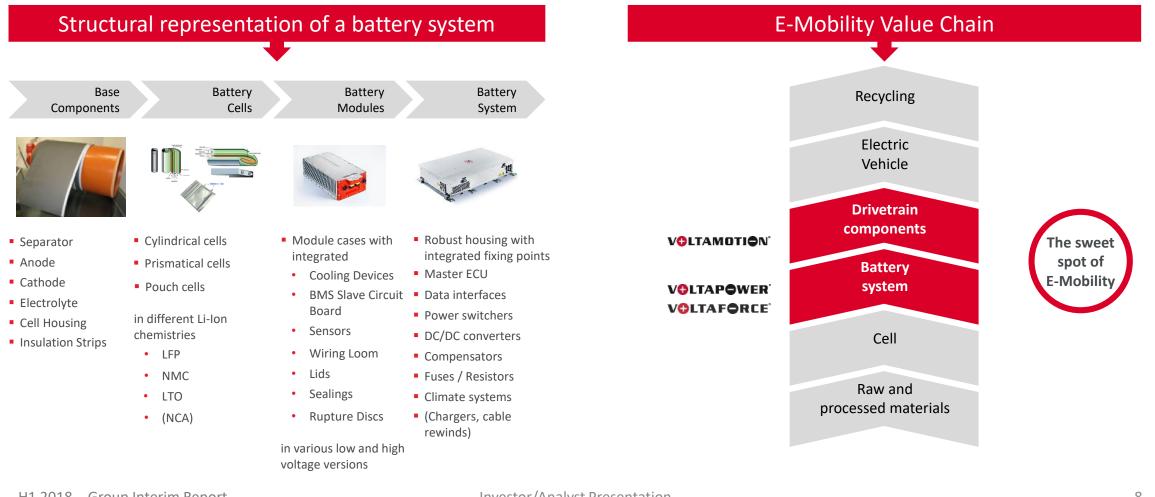


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E-Mobility Pure Play



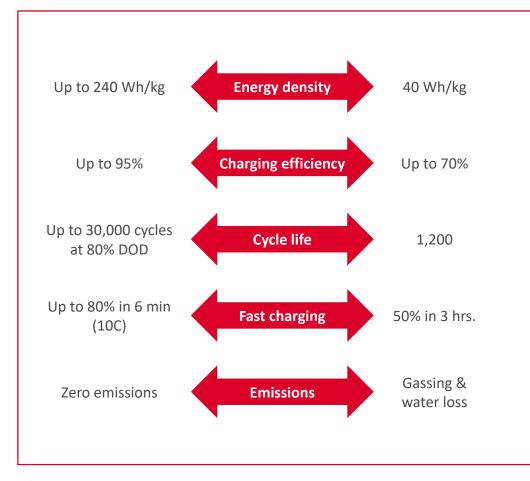


Li-Ion vs. Lead-Acid Technology



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

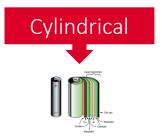
Nickel Manganese Cobalt (NMC)

- 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)

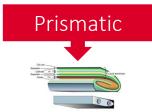
Lithium Titanium Oxide (LTO)

- 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
Prismatic (Wound)	Poor	Poor	Minimal	Medium	Medium
Prismatic (Stacked)	Good	Poor	High	High	Medium
Pouch (Wound)	Poor	Good	Minimal	Medium	High
Pouch (Stacked)	Good	Good	High	High	High

Source: IDTechEx



Modular Development & Production Approach*



NMC 24V standard



NMC 24V air-cooled



NMC 24V water-cooled



NMC 48V standard



NMC 48V air-cooled



NMC 48V water-cooled



NMC 103V water-cooled



NMC 36V standard



NMC 40V standard



NMC 40V water-cooled



LTO 48V standard



LTO 83V standard



LTO 83V long



LFP 24V standard



NMC 48V Pouch



3x8 LFP round cell module



4x9 LFP round cell module

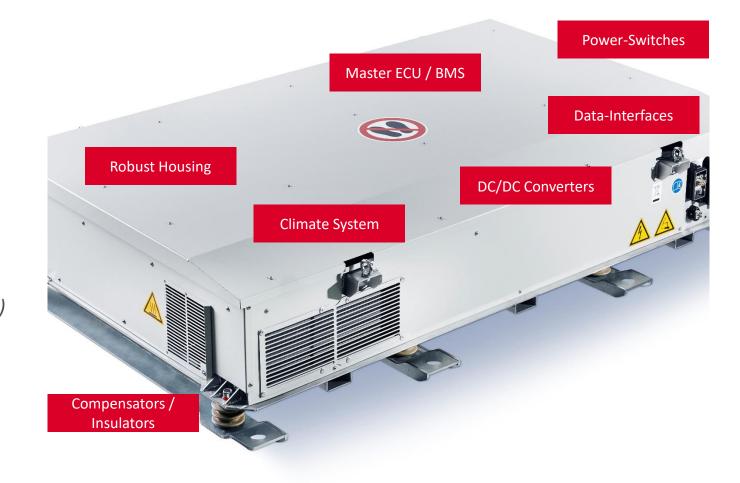


Li-Ion Battery System Supplier for Industrial Applications

- Many years of experience in development and production of electronic components (via parent company paragon GmbH & Co. KGaA)
 - 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)



H1 2018 – Group Interim Report





Market Penetration by Voltabox

Kiepe Electric	Q2 2014: First major l
KOMATSU	 Q2 2016: Exclusive str
KUKA	 Q4 2016: Expansion o
BMW Motorrad	 Q3 2017: First selecte
Schäffer	Q4 2017: First strateg
Concurrent Design	 Q1 2018: Acquisition
TRIATHLON	 Q2 2018: Strategically
	 Q2 2018: Takeover of
Today:	Significant future growth prospercent

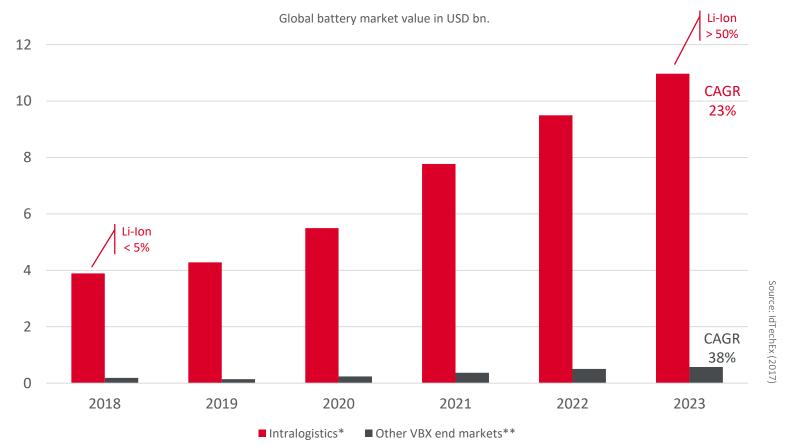
- Q2 2014: First major US-contract for battery systems in trolleybuses
- Q2 2016: Exclusive strategic partnership with leading mining equipment provider
- Q4 2016: Expansion of intralogistics market with batteries for Automated Guided Vehicles
- Q3 2017: First selected mass market entry with starter batteries for motorbikes
- Q4 2017: First strategic partnership in the area of agriculture and construction
- Q1 2018: Acquisition of the engineering services provider Concurrent Design
- Q2 2018: Strategically important rearrangement of intralogistics partner agreement
- Q2 2018: Takeover of Navitas systems and entry into production of customized battery cells
- Significant future growth prospects backed by strong 60-month order backlog of € 740 million* weighted 100 Dercent

* As of June 30. 2018



Market Dynamics

- 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
- Intralogistics submarket expected to show fastest adoption of Li-Ion technology due to TCO advantages
- Market penetration of Li-Ion expected to exceed 50% of new sales by 2023 in intralogistics



^{*} Partly Lead-Acid and Li-Ion.

** HEV/PHEV Buses over 5 meters, mining vehicles, agriculture & construction, motorcycles.



New Agreement for Targeted Market Leadership

In June 2018 Voltabox rearranged the strategically important agreement with Triathlon for a close partnership in order to supply the market with innovative and technologically advanced Li-Ion batteries.

Early implementation of a differentiation strategy with three essential manufacturing and sales players: Voltabox, Triathlon, Navitas

Ensuring a fast market penetration at Voltabox' own pace in both Europe and the USA in order to occupy a leading market position

Creating competitive advantages via transfer of technology know-how

Creating market entry barriers for competitors by securing access to exclusive system components

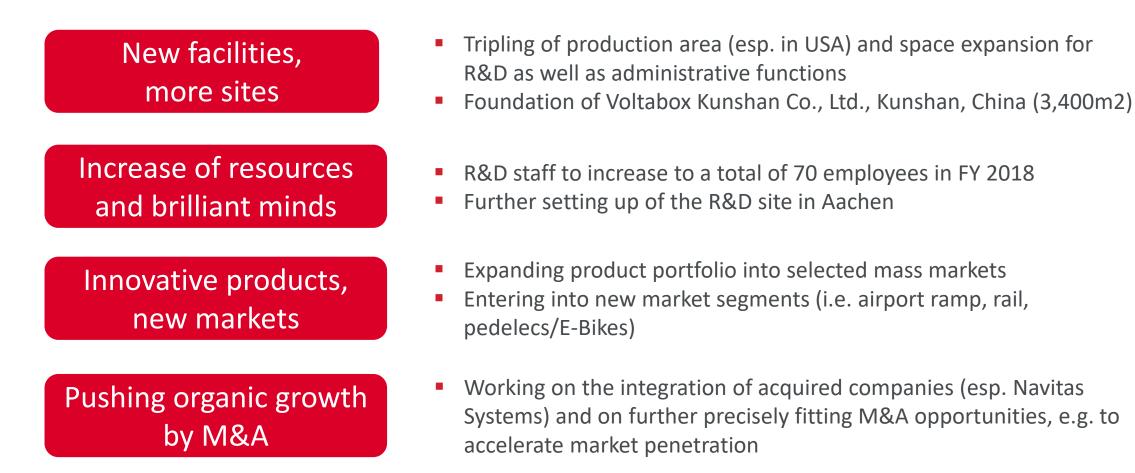
Time and cost advantages compared to own development of system components

Additional access to the (shared) margins from the end customer business on the system level



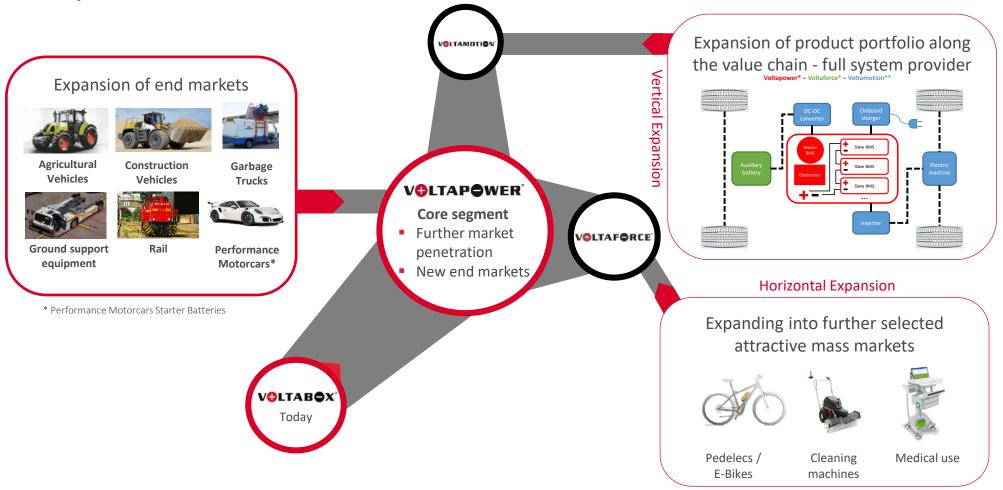


Voltabox Growing Into a New Dimension





Multiple Growth Paths





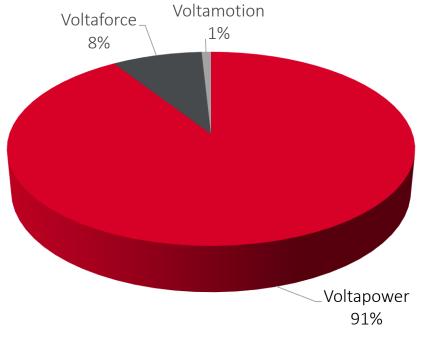
USPs of Voltabox



60-Months Order Backlog (Q2 2018 – Q2 2023)

- Total 60-months order backlog amounts to more than € 1bn*.
- Thereof approx. 74% signed orders and framework agreements (weighted with 100%)
 - 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 inception in 2011

60-months order backlog with 100% weighting as of H1/2018





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Key Figures for the Group from H1 Report 2018

Strong Financial Background

- Equity ratio of 91.5 % (equity: € 154.9 million)
- Liquid funds of € 74.2 million
- Balance Sheet Total: € 169.2 million

Dynamic Growth in all areas

- Group revenue increased 71 % to € 18.1 million
- FTE up 45.5 % to 144 (excl. 25 temporary employees)

Profitability on track

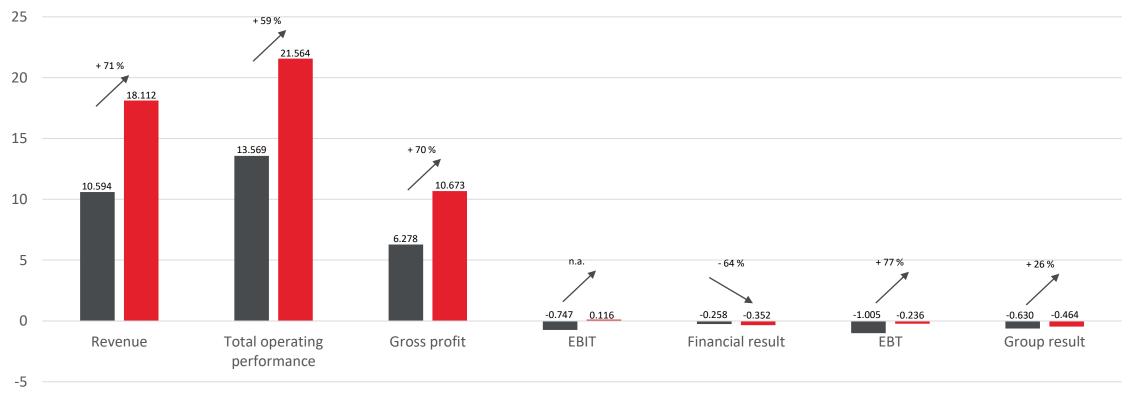
- EBITDA increased 758 % to € 1.7 million
- EBIT margin at 0.6 %

Successful Execution of Growth Strategy

- Entry into direct sales activities in Intralogistics
- Auspicious Takeover of Navitas Systems for € 37 million incl. excellent market access in the US
- Investments of € 3.5 million as expected



Top Line Growth with Increasing Profitability



■ H2 2017 ■ H2 2018



Cash Flow Statement

- Large increase in trade receivables owing to very good business development in the Voltapower segment and sales financing support for main Voltabox partner (limited to 2018)
- Other non-cash expenses increased due to currency effects
- Significant decrease in trade payables and other liabilities of € 7,798m
- Slightly increased amortization of noncurrent fixed assets









New R&D Capabilities: Takeover of Concurrent

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



Concurrent Design was the first acquisition for Voltabox in this field since its successful IPO. The whole team has been integrated into the structures of Voltabox of Texas and is now mainly working on projects for Komatsu.



On Way to Market Leadership: Acquisition of Navitas

Profitability broadly similar to Voltabox

Expected revenues of around €25m in 2018



Voltabox took over Navitas Systems for €40m in order to accelerate market penetration in the market segments of particularly rapid growth.

With the acquisition, Voltabox have come a **great deal closer** to the goal of becoming the

global market leader

in the field of battery systems for intralogistics.

Navitas has established a market-leading position in the region with its "Starlifter" batteries.

Navitas employs a total of 85 people - including **top experts** with in-depth cell know-how with an A123 background.

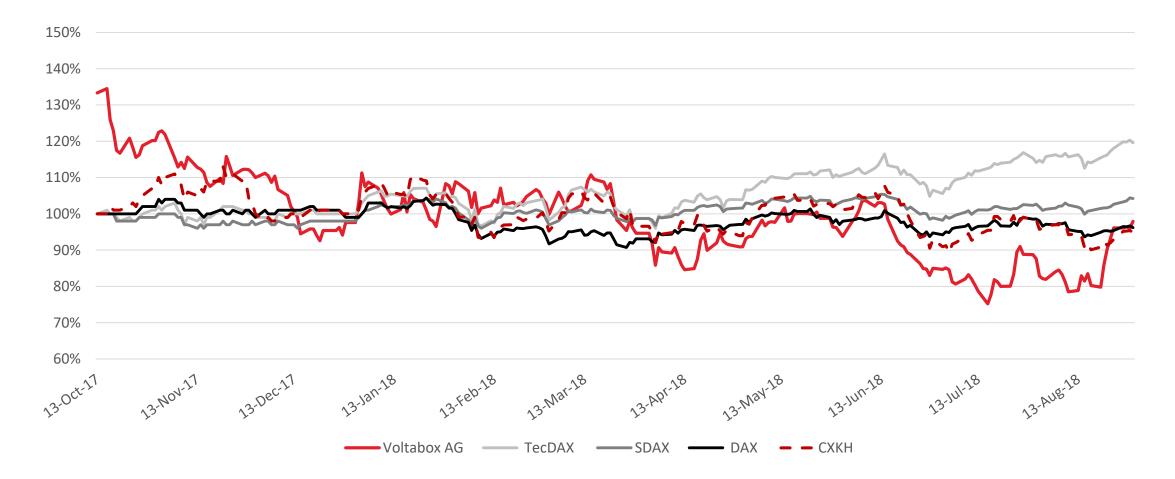


Navitas opens up new applications and thus completely new prospects

in the North American market.



Performance of Voltabox Share (VBX)





Updated Forecast 2018

7 € 65-70 m

Revenues 2018 (e)*

* In the course of the acquisition of Navitas System – expected initial consolidation in Q3 2018

7 ca. 7 %

EBIT margin 2018 (e)**

**Considering € 2m add. expenses from rearrangement of intralogistics partner agreement

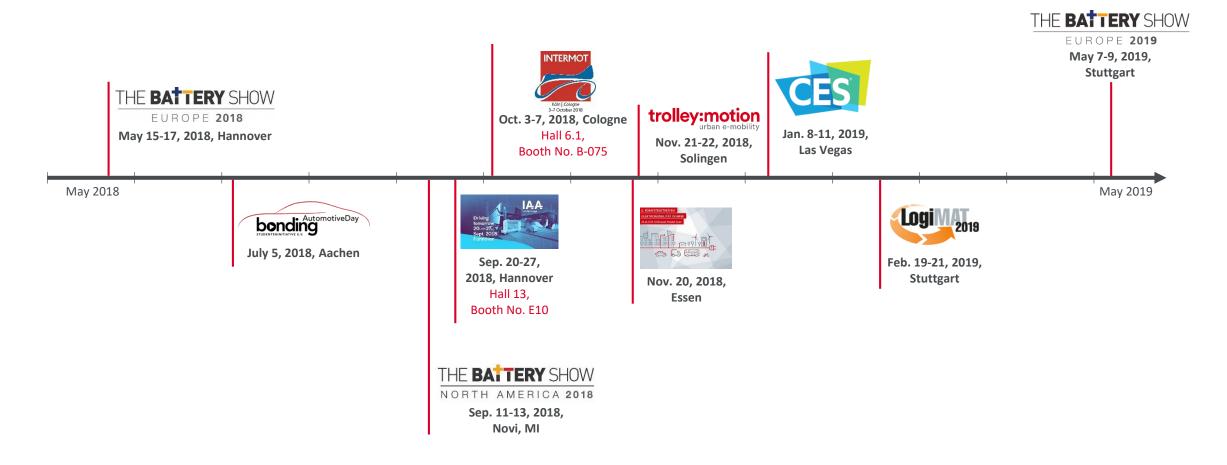


Forecast and Analyst Consensus

Financial performance indicators of Voltabox AG	2017		2018	
[in € million / as indicated]	Forecast	Results	Forecast (old)	Forecast (new)
Group revenue	25	27*	Approx. 60	Approx. 65-70**
EBIT margin	Slightly positive	2.1%	Approx. 10%	Approx. 65-70** Approx. 7%***
Analyst estimates	2017		2018	
Group revenue	25.5		58.2	
EBIT margin	0.89	6	10.1%	
		** In the course of the acquisition of	rent company paragon AG (now paragon G Navitas System – expected initial consolida enses from rearrangement of intra l	ation in Q3 2018



Voltabox on tour – Trade fairs and exhibitions





Financial Calendar

Jan. 11/12,	Oddo Forum, Lyon
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- 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
- Oct. 25
 Berenberg Discovery USA Konferenz, New York
- Nov. 13, Interim release as of September 30 9 months
- Nov. 26-28, Deutsches Eigenkapitalforum 2018, Frankfurt am Main

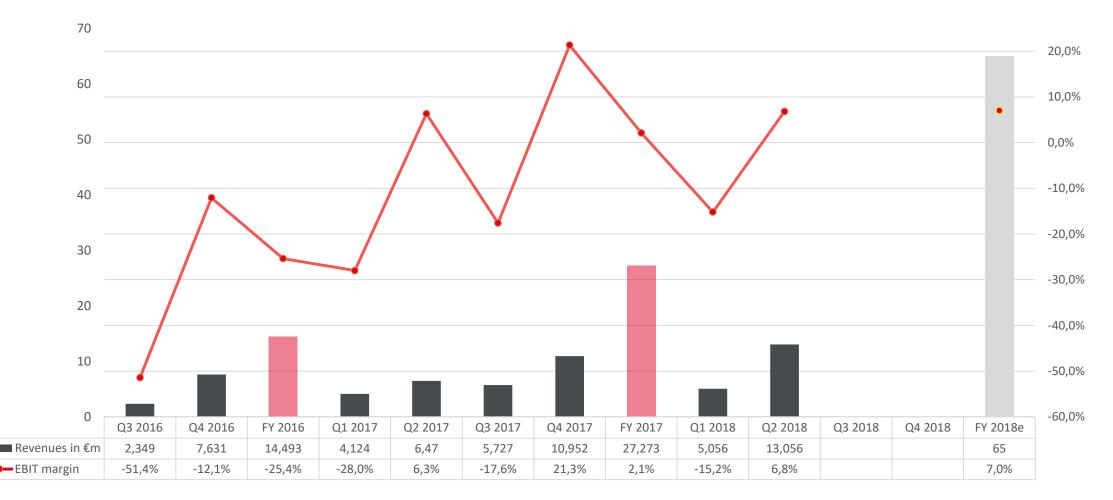
H1 2018 – Group Interim Report



Financials -Appendix

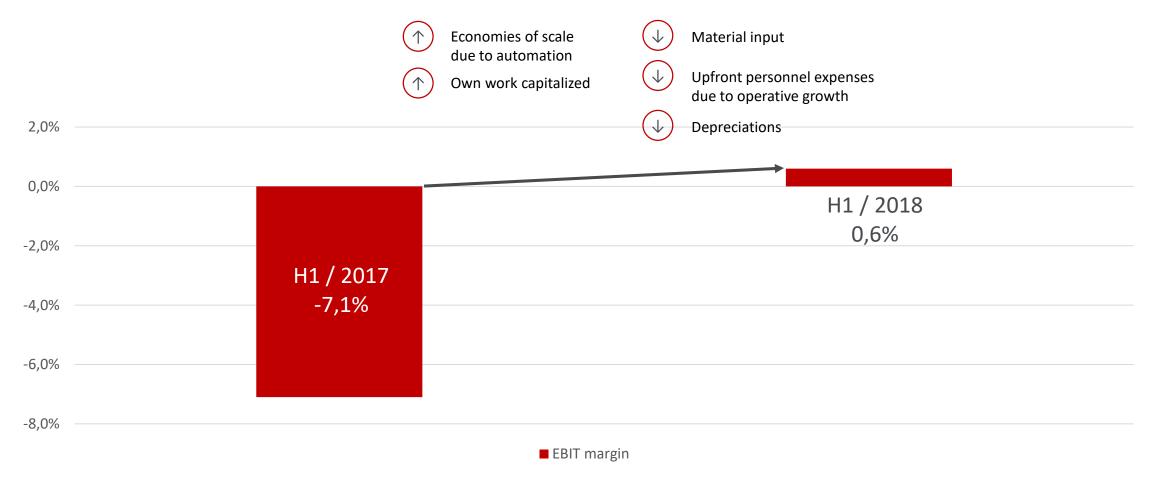


H1/18: Revenues & EBIT Margin development

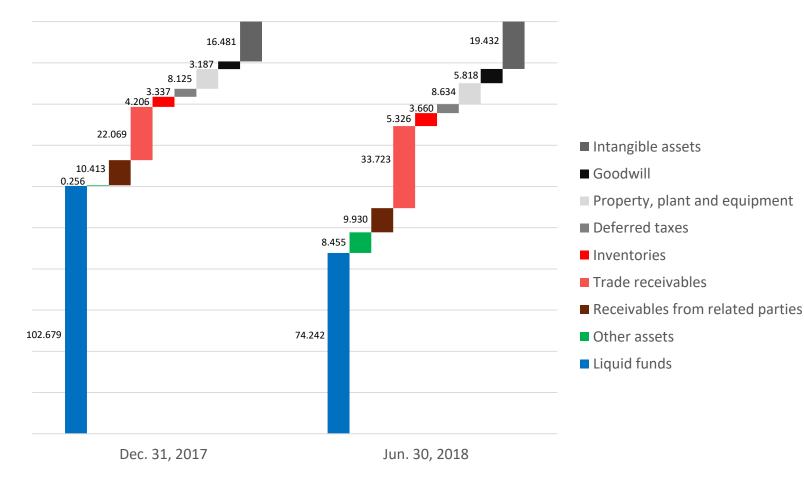




H1/18: Key Factors Profitability Development

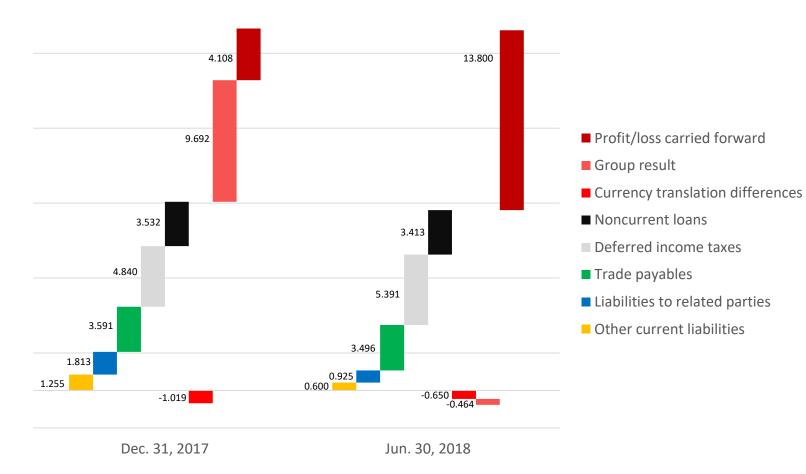


H1/18: Significant Changes of Group's Assets



- Increase in noncurrent assets by € 6.4m
 - Intangible Assets up € 3.0m owing own work capitalized
 - Increased Goodwill as a consequence of the Concurrent Design acquisition
- Decrease in current assets by € 7.9m
 - Increase in Trade Receivables about € 11.7m due to sales supporting activities in intralogistics
 - Other assets up € 8.2m due to the capitalization of the one-time investment subsidy for capacity expansion granted by Voltabox due to the revised cooperation agreement with the partner Triathlon
 - Liquid funds went down about € 28.4m mainly through operating expenses in connection with the dynamic growth strategy

H1/18: Significant Changes of Equity and Liabilities

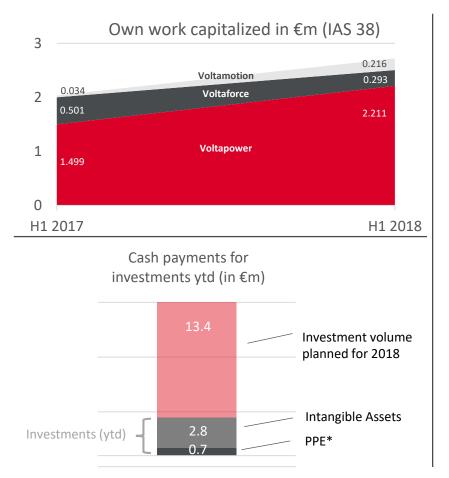


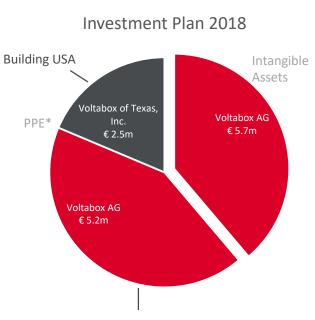
- Equity remained nearly unchanged at € 154.895m
- Noncurrent provisions and liabilities slightly increased to € 8.818m
- Current provisions and liabilities decreased about € 1.9m to € 5.507m
 - Liabilities to related parties went down about € 0.9m
 - Other current liabilities reduced about € 0.7m



H1/18: Investing in Further Growth

- CAPEX breakdown: € 10.9 million in Germany and €
 2.5 million in the US
- Capitalized development costs expected to increase by 6.6%
- Investments year-to-date at € 3.5m (thereof € 2.8m Intangible Assets)
- Own work capitalized mainly in the Voltapower segment – increased R&D in the Voltmation segment





i.a. prismatic line (outstanding payment), pouch line, technology/emachines, charger/inverter, property deposit, measuring devices etc.

*Property, Plant and Equipment



FY17: Highlights

Strong Financial Position

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

Dynamic Top Line Growth

Group revenue increased 88.2 % to € 27.3 million

Increasing Profitability

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

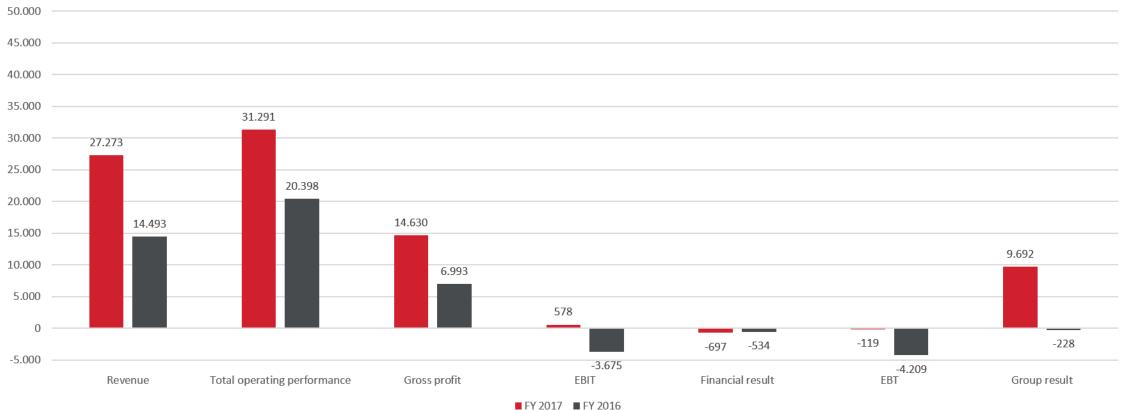
Set for Future Growth

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



FY17: Top Line Growth with Increasing Profitability

Selected parameters from the consolidated income statement of Voltabox AG



Investor/Analyst Presentation



FY17: 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

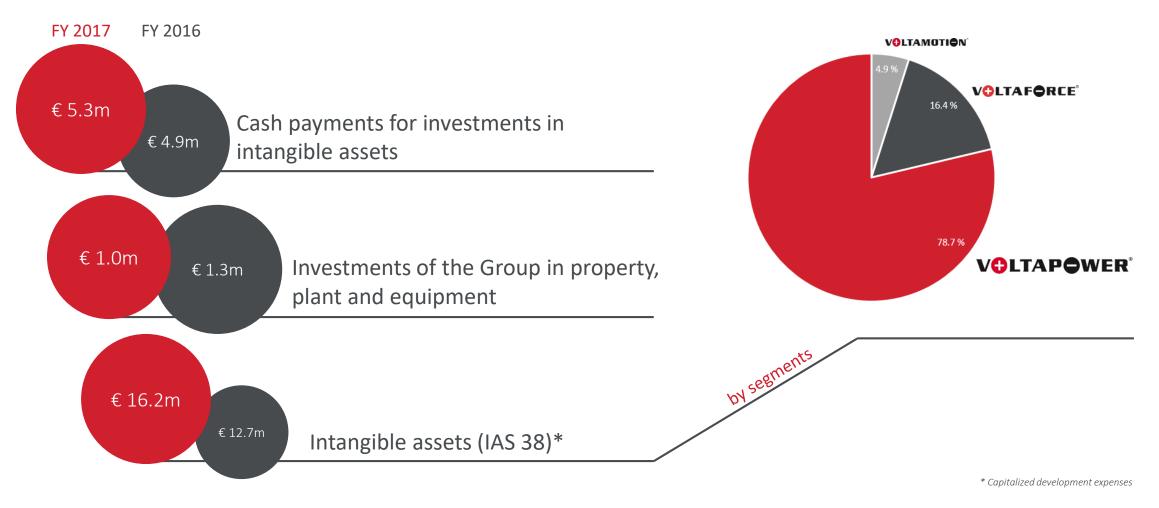
(Accounting date: Dec. 31, 2017)

 Assets + equity and liabilities € 170.8m
 (2016: € 39.0m)

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



FY17: Investments as a Key Factor





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