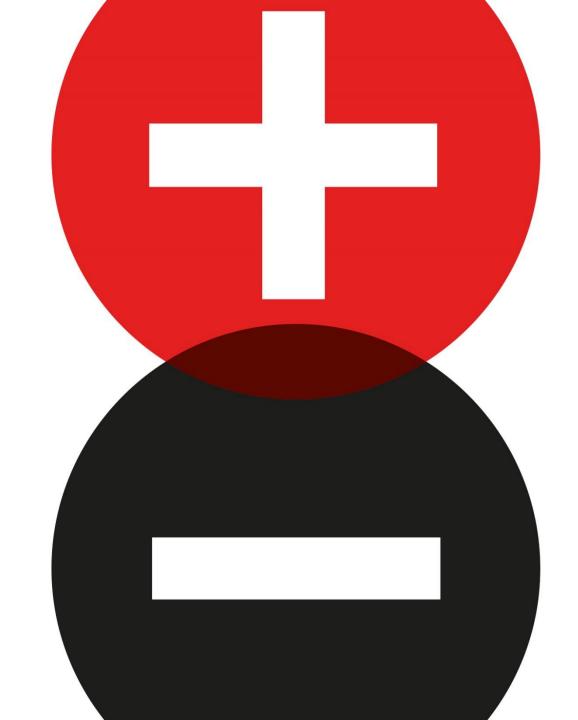
Voltabox electrifies!

Investor/Analyst Presentation

EquityForum Fall Conference September 2-3, 2019







Key Facts from 6M/2019

Continued top line growth +77%

EBIT margin burdened by high material input at -3.6%

Equity ratio decreases to 78%

Available liquidity at € 18.6m

Main drivers in 6M/18: ♣ and ♣ and ♠

CAPEX: € 8.9m



Adjusted Forecast for 2019: Revenues of € 70m - € 80m, EBIT margin between -8 to -9%



Agenda

- Company Presentation
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Voltabox Corporate Development

2019 ff.	+ Start Intralogistics in-house development + Entry into US Intralogistics and ESS market	+ EV-Buses	+ Stationary Energy Back-up Systems + OEMs	→ 2019e: € 70 – 80m Revenue, -8 to -9 % EBIT margin
2018	+ Acquisitions of Concurrent Design & ACCURATE (Branch: Korntal-Münchingen) + Start of Intralogistics direct sales		E-Bikes / Pedelecs	→ € 66,9m Revenue, 8,4 % EBIT margin 235 FTE
2017	Change of legal form to AG & IPO + Branch Aachen	Agriculture & Construction VOLTAPOWER®	V⊕LTAF⊜RCE°V⊕LTAMOTI⊜N°-	→ € 27,3m Revenue, -10,3 % EBIT margin 99 FTE
2016		Mining	VOLIANGIIGI	→ € 14,5m Revenue, -25,4 % EBIT margin 67 FTE
2015		Material Handling (Intralogistics)	Motorcycles	→ € 7,4m Revenue -31,6 % EBIT margin 62 FTE
2014	Foundation Voltabox Deutschland GmbH + Branch Austin (TX, USA)	Trolleybuses		→ € 4,6m Revenue -9,7 % EBIT-Marge 41 FTE
	Strategic Milestones		Market Development	Results

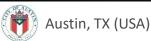


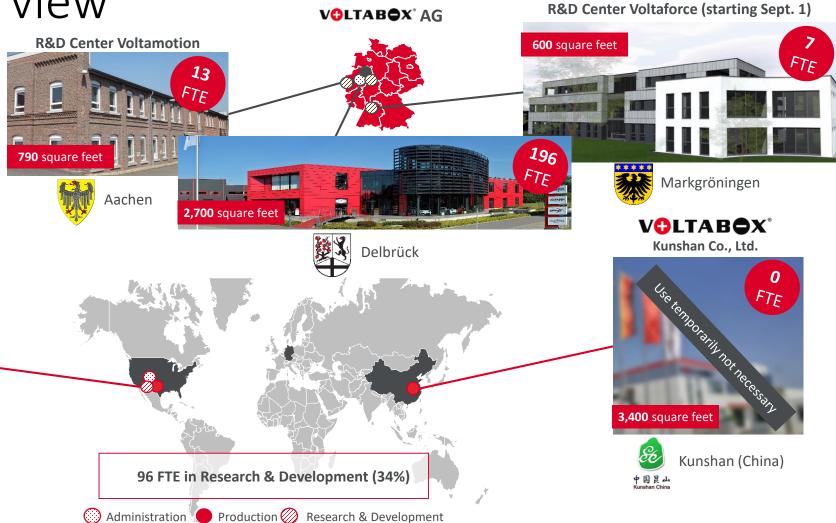
Location Overview

With 282 FTE*, technology hubs and state-of-the-art production facilities, Voltabox is well positioned to grow its business on a global scale.





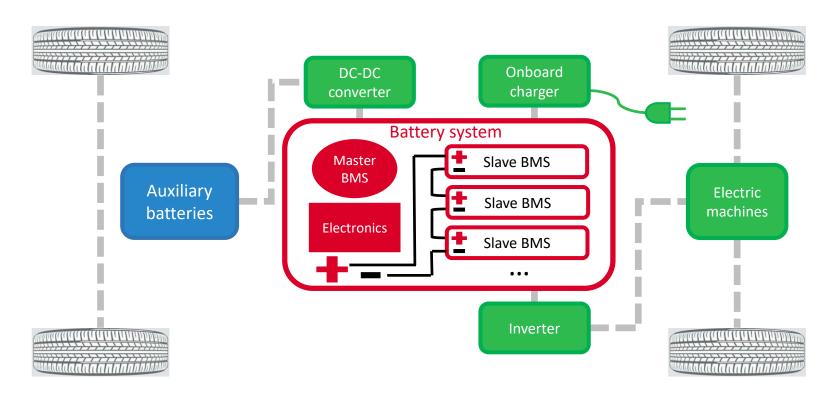






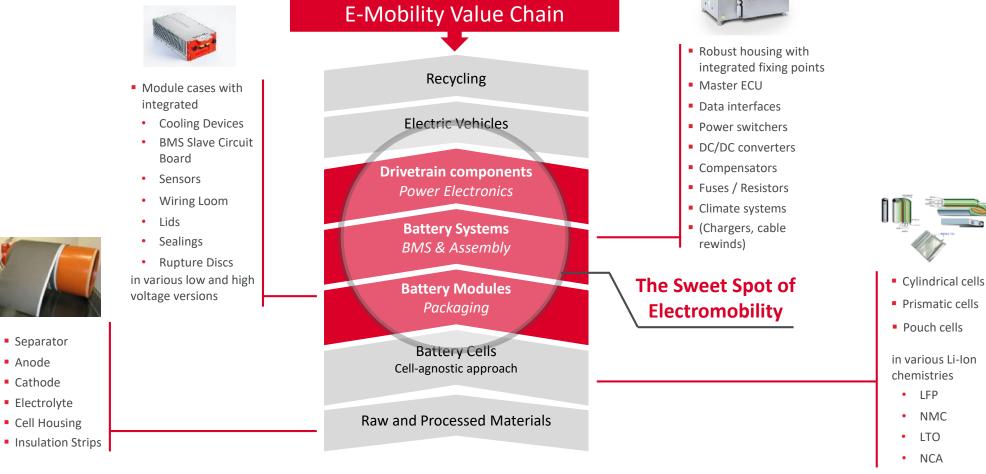
Product segments

Voltapower – Voltamotion – Voltaforce



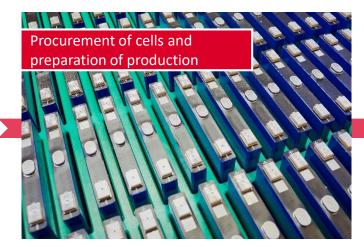


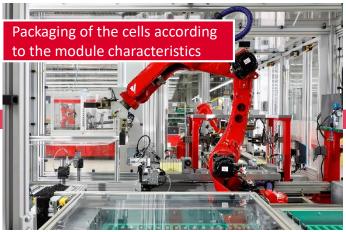
E-Mobility Pure Play





Production Steps - From the Cell to the Complete System









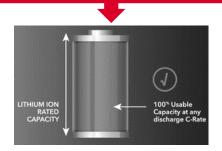






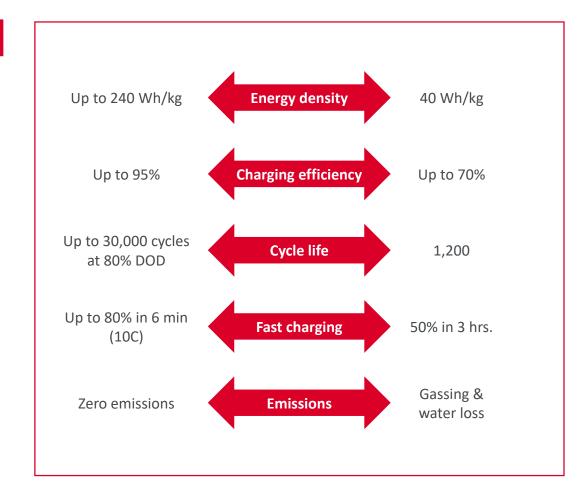
TCO-Advantages Driving Substitution of Lead-Acid by Li-Ion

Li-Ion Technology



Additional advantages:

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





Voltabox is Cell Agnostic!

Cylindrical



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 prismatic 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

Prismatic

Pouch

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

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

Nickel Cobalt Aluminum Oxide (NCA)

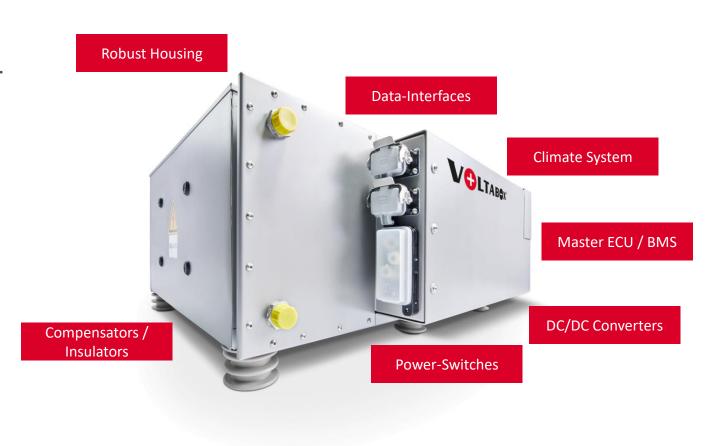
- Nominal cell voltage: 3.6 3.7 V (vs. graphite)
- Very wide operating temperature range of -20 /+75°C
- High cycle stability of up to 1,500 cycles at 80-70% DoD
- High energy density (140 280 Wh/kg and 300 - 590 Wh/L)
- Currently being tested or upscaled by many cell manufacturers

Source: IDTechEx.



Li-Ion Battery System Supplier for Defying Applications

- Voltabox is a pioneer in the electrification of industrial applications.
 In 2018, the Group expanded its solution portfolio in order to open up further mass markets in the future.
 - Mindset focus on applications
 (authentic added value solutions)
 - Exceptional integration power (experience in automotive interfaces)
 - Superior realization processes
 (short time-to-market with modular kit)





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New Market for Voltabox: 5G Mobile Transmission



With the 5G technology the basis is created for...





Smart Factories and Industrial Internet of Things (IIoT)









The New 5G Mobile Communications Technology

- In densely populated areas (large cities), transmission cells with a maximum centre distance of 300m are typically required. Here around 3,000 to 5,000 5G transmission towers are required. In rural areas the distances are larger, max. 1km.
- In comparison, the number of required 5G transmitters is 10 times higher than with the current 3G or LTE technology. Studies concerning the necessary German 5G network construction show a demand of 750,000 to 1.2 million 5G mobile transmission towers.
- Each transmitter needs a back-up battery to bridge power network failures. Compared to conventional lead-acid batteries, Voltabox lithium-ion batteries are lighter, smaller, more durable and maintenance-free.





Large Initial Order for Voltabox Back-up Systems

- Client: located in Austin, active in 5 federal states
 - Alpha Prototype: June 18, 2019 (1 piece)
 - Beta Prototype: July 2019 (5 pieces)
 - Volume First Order: 2.200 pieces
- New customer requirements in 08/2019:
 - 44 hrs durability instead of 33 hrs
 - 1,500 cycles instead of 3,600 cycles
- Technically not challenging
- Impact on battery size and management
- New validation necessary >> Time delay



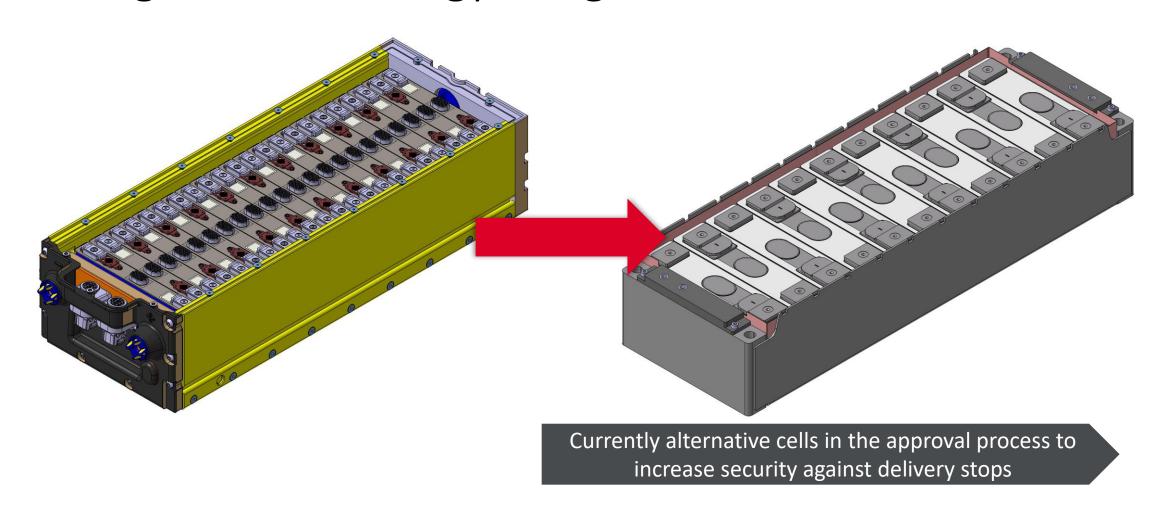


Images: Prototype installations of the Voltabox systems in Austin/TX





Change of Technology: Single Size vs. Double Size





Market Segment Intralogistics: Strategy for the USA

- Implementation of the market approach strategy for the North American Intralogistics market is underway.
- Five sales experts with partly extensive track records have been installed and trained.
- Extension of the field of sales activities due to the planned market entry into the telecommunications industry (equipment of 5G mobile transmission towers) with stationary backup battery systems.
- Currently: Advanced process of further identifications of prospects and market opportunities in the relevant regions and hubs





Voltabox of Texas: Expansion Into New Markets





Market segments already entered



Market segments under development









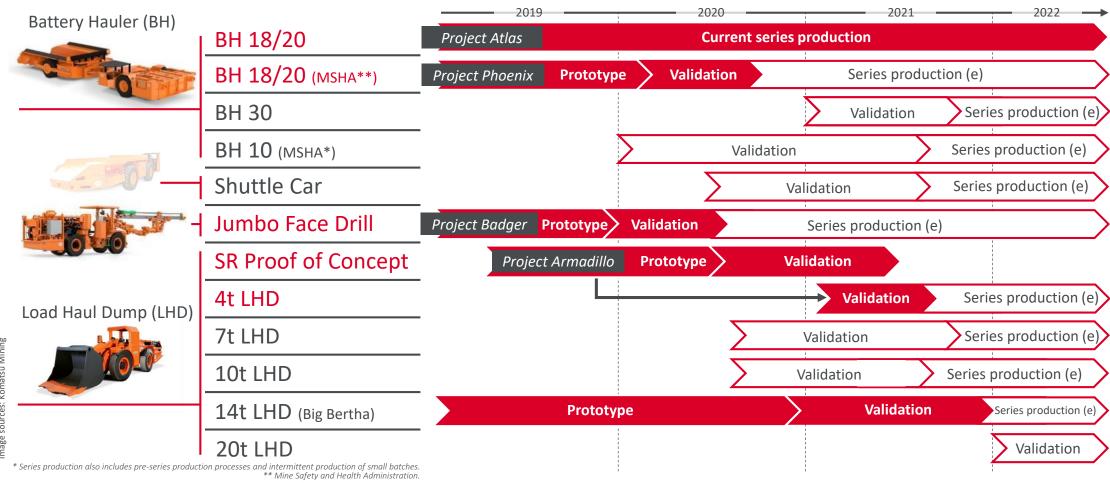


Thomas Marc Becker (39): **New CFO Voltabox USA**

Graduate business economist and industrial engineer with professional background gained at Continental Automotive Systems in China and USA, most recently Head of Finance/IT in Santa Teresa (Texas, USA)

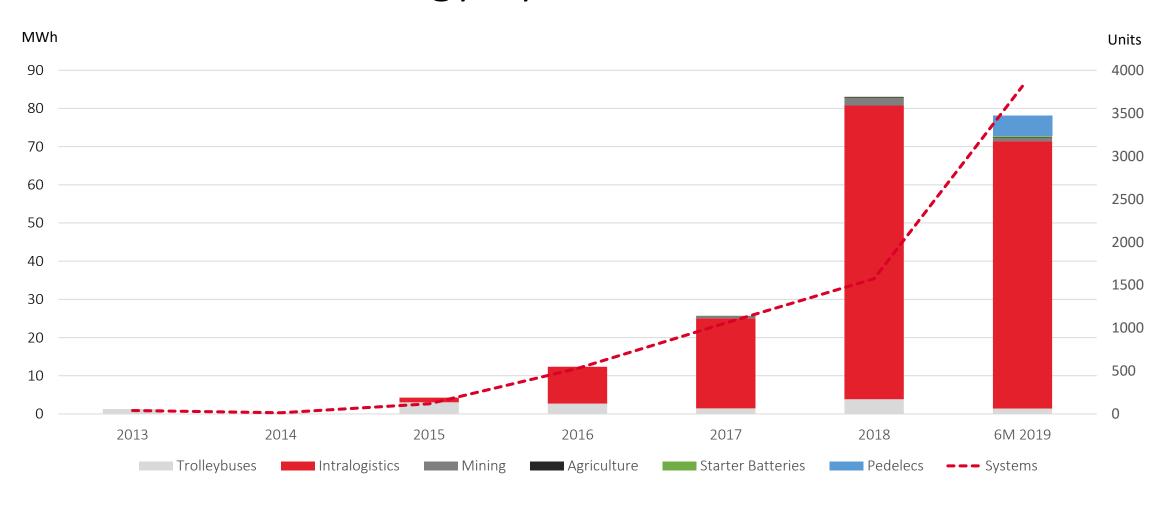


Mining: Roadmap* for the Komatsu projects





Installation of Energy by End Markets





Agenda

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Financials in the Focus -6M/2019

7 € 32.1 million

7 249 employees*

Revenues (previous year: € 18.1 m)

(31 December 2018: 235)

Significant Growth of Business Again – Profitability Lowered Due to High Material Input

¥ € 0.4 million

¥ € -3.6 million

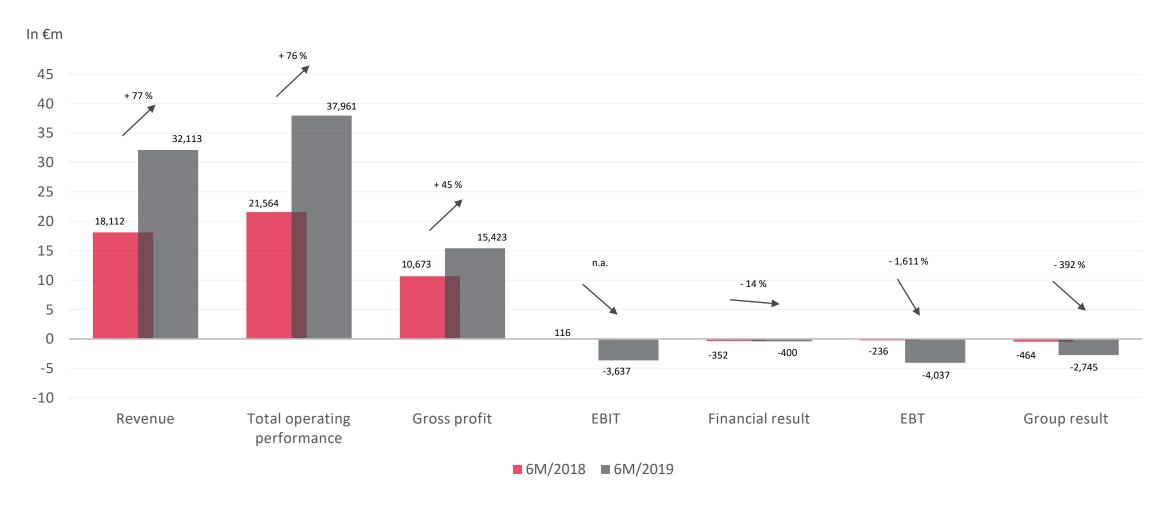
EBITDA (previous year: € 1.7 m)**

EBIT (previous year: € 0.1 m)**

* Excluding 33 temporary employees, as of June 30, 2019.



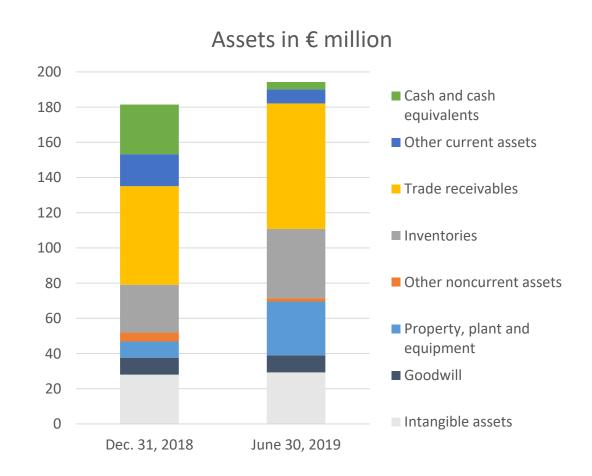
Ongoing Top-Line Growth at a Negative Profitability





Key Developments of Assets

- Increase of noncurrent assets by € 19.6m
 - Intangible assets € +1.3m capitalized development expenses
 - Property, plant equipment € +21.4m IFRS16 (Leasing) effect
 - Other assets € -3.5m Reclassification of long-term rent prepayments to property, plant and equipment due to IFRS16
- Decrease of current assets by € 6.8m
 - Inventories € +12.0m mainly sourcing of materials for the planned production the second half of the year
 - Trade receivables € +15.3m expansion of the operating business
 - Liquid funds € -24.0m business expansion, prefinancing of planned production in the second half of the year (see Inventories) plus expansion of the US facilities
 - Receivables from related parties € +9.8m Repayment from parent company





Key Developments of Equity and Liabilities

- Increase of noncurrent provisions and liabilities by € 13.6m
 - Noncurrent loans € +0.5m.
 - Noncurrent liabilities from Finance Lease € +13.3m
- Increase of current provisions and liabilities by € 2.6m
 - Trade payables € +4.5m
 - Liabilities to related parties € 0.3m
 - Other current liabilities € -2.9m
- Decrease of equity by € 3.4m
 - Equity ratio at 77.7 % (Dec. 31, 2018: 85.3 %)

	June 30, 2019	Dec. 31, 2018	
Equity	151,064	154,484	
Subscribed capital	15,825	15,825	
Capital reserve	127,992	127,992	
Profit/loss carried forward	9,718	7,614	
Consolidated net income	-2,745	2,579	
Currency translation differences	274	474	
Noncurrent provisions and liabilities	21,434	7,808	
Noncurrent finance lease liabilities	13,341	17	
Noncurrent loans	652	141	
Deferred tax liabilities	7,441	7,650	
Current provisions and liabilities	21,810	19,224	
Trade payables	13,743	9,257	
Liabilities to related parties	860	557	
Other current liabilities	1,852	5,871	
	194,308	181,516	



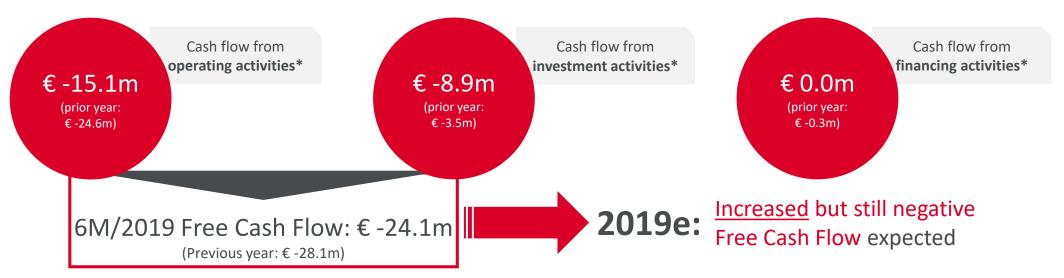
Cash Flow Statement 6M/2019

Net working capital still influencing operating Cash Flow mainly as a consequence of

once again increased inventories due to necessary sourcing activities for several projects in the first half year

Cash Flow from investment activities according to plan due to

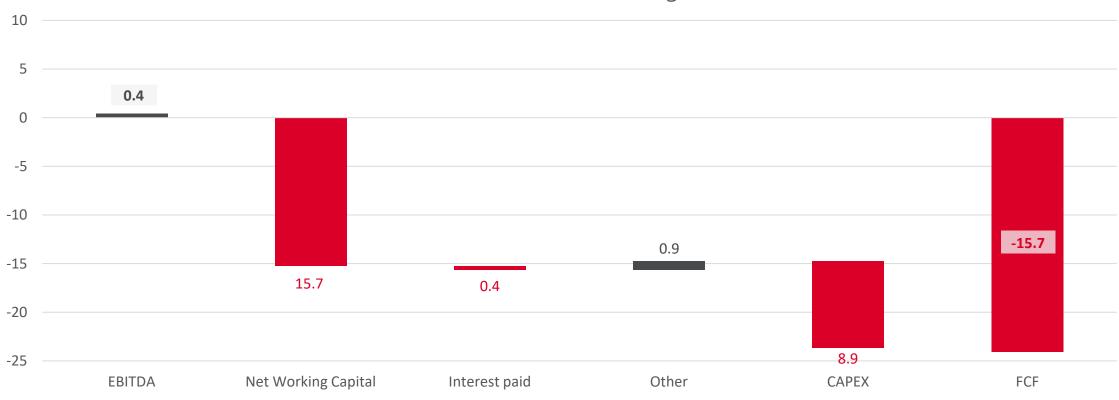
CAPEX Investments amounting to more than 60 % of planned investments for the year as a whole at the end of the first half
year





Key Cash Flow Developments in 6M/2019







Agenda

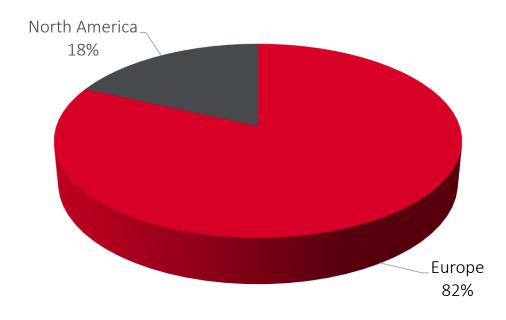
- Company Presentation
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60-Months Cumulative Order Book*

- Total 60-months order book* amounts to around € 1.1bn.
- Thereof approx. 64% 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 cumulative order book* with 100% weighting as of June 30 2019



^{*} As defined by the company.



Keyfacts for Revenues 2019e

Megatrend Electrification:

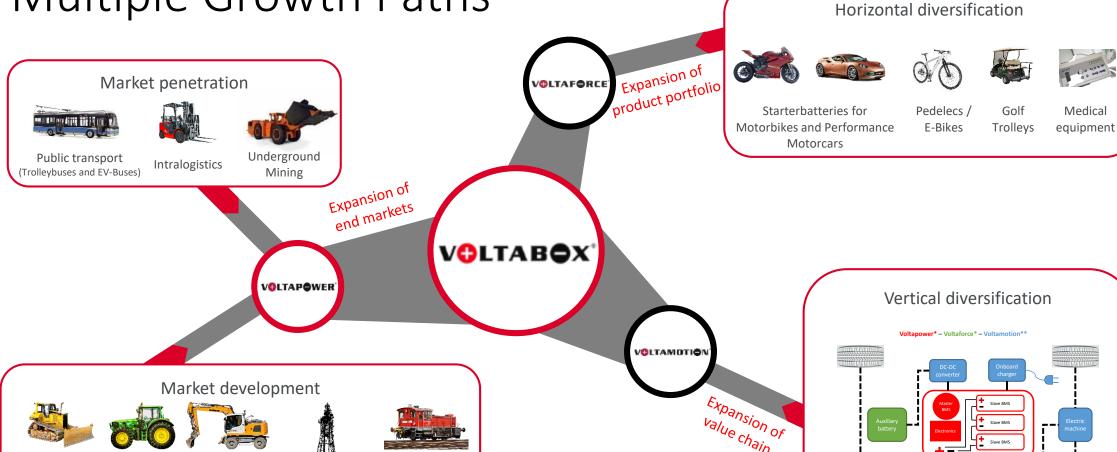


	Intralogistics		&*	Agriculture / Construction	•
	_ Direct sales share	1	₹5	Mining	
	_ Triathlon share				A
***************************************	Bus industry			Port / Rail	*
\$	Mass markets (Starter batteries, Pedelecs, Backup Battery Systems*)	^	∌િ∳	Electric Vehicles	*

* New market segment.



Multiple Growth Paths



Construction

Vehicles

Stationary

Applications (e.g. 5G)

Rail

Agricultural

Vehicles

Surface Mining



Adjusted Forecast 2019

7 € 70m to € 80m

Revenues 2019 (e) (prior: € 105m to € 115m)

7 -8 to -9 %

EBIT Margin 2019 (e) (prior: 8 to 9 %)



Preparing for the Return to Profitability in 2020

Strengthening Working Capital

- Use of existing inventories for revenue recognition in 2020 without significant use of liquidity
- Clear reduction of trade receivables by the end of 2019 contractually agreed

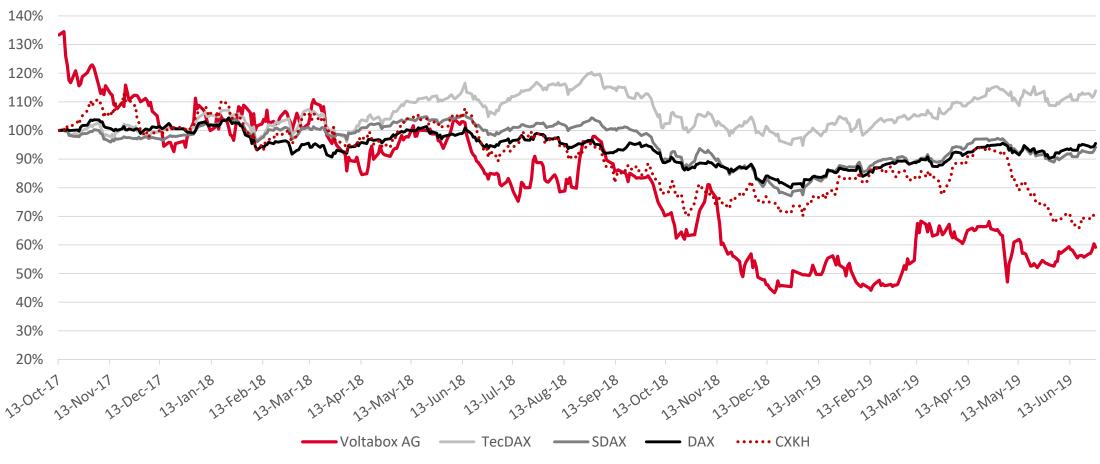
Increasing efficiency and refocusing in part on current markets

- Focus on profitable growth markets with innovative and scalable systems
- Significant cost savings targeted
- Better ratio of development expenditure to potential turnover
- Future high margins through new cell technology
- Development of new high-margin markets (e.g. 5G) as innovation leader

As planned: Re-conversion of bound capital in order to expand business and improve operational performance

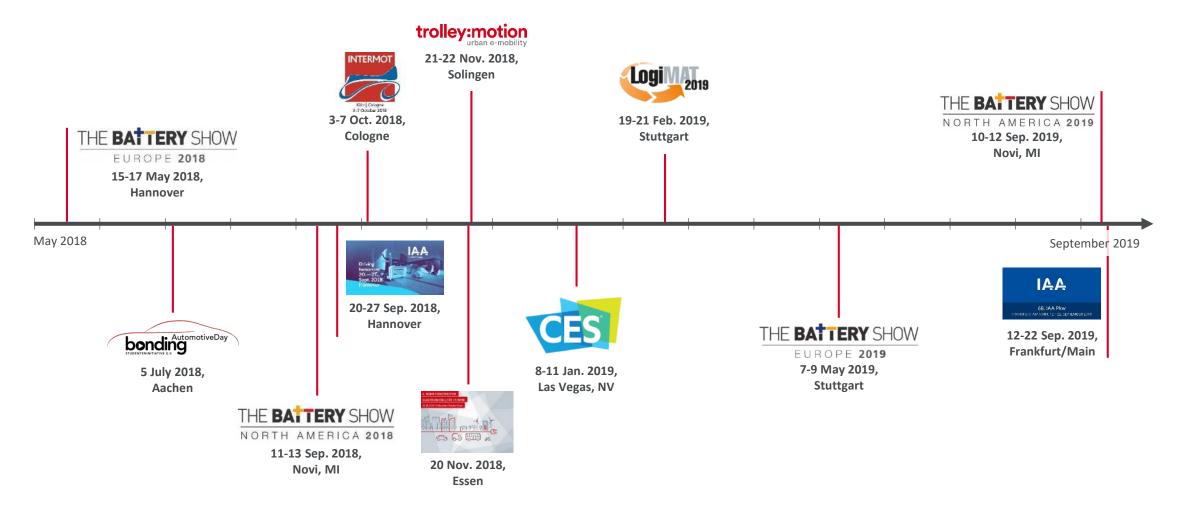


Performance of Voltabox Share (VBX) since IPO





Voltabox on the Road — Trade Fairs and Exhibitions





Financial Calendar 2019

	January 10-11	ODDO BHF FORUM, Lyon
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January 31
 Bankhaus Lampe German Corporate Conference, London

February 19-20
 ODDO BHF German Conference, Frankfurt am Main

April 1 Annual Report – Consolidated Financial Statements 2018

April 3-5
 Bankhaus Lampe German Conference, Baden-Baden

April 11 Solventis Aktienforum, Frankfurt am Main

May 13
 Group Interim Report as of March 31, 2019 – First quarter

May 16
 Annual General Meeting, Delbrück

August 21
 Group Interim Report as of June 30, 2019 – Half year

September 2-3
 Equity Forum Fall Conference, Frankfurt am Main

November 13
 Group Interim Report as of September 30, 2019 – 9 months



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