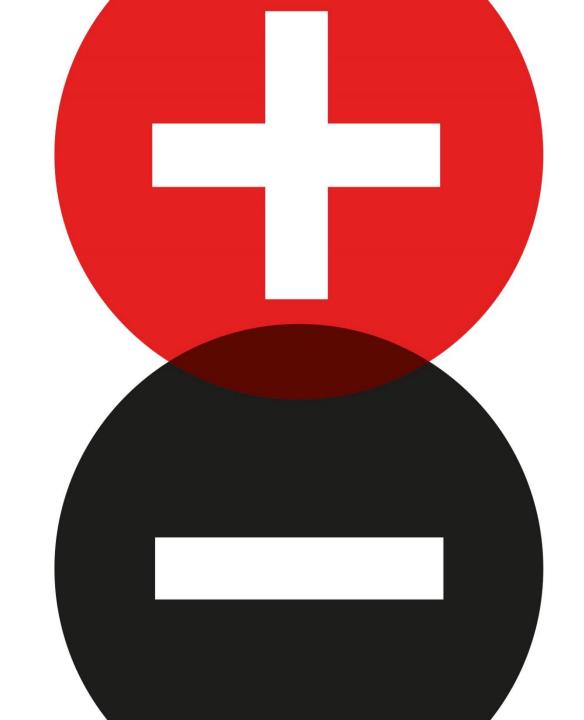
Voltabox electrifies!

Analyst / Investor Presentation

Quirin Champions Conference June 18, 2020







Responding to the Pandemic

From the middle of March, significant effects on

- current series deliveries (e.g. import stop of battery systems for trolley buses in Italy)
- material procurement due to blocked supply chains
- customer call-offs (e.g. intralogistics)
- R&D projects and planned series starts due to order cancellations
- » **(**

Voltabox responded by applying for short-time work for large parts of the Group

- Almost complete stoppage of production at the Delbrück and Austin, Texas, plants (only few service activities in production)
- >> Significant impact on forecast revenue for 2020; earnings affected due to underfunding of cost base (but according to conservative planning no liquidity issues)



Status Quo in Operational Business

End of short-time work at the end of June

Gradual ramp-up of production

Coping with the effects of the crisis by using own resources — no burdening of the balance sheet and liability structure through KfW loans

Increasing signals from customers to resume supplies

Time used for setting up the organization autonomously



Preparations Done for the Post-Pandemic Era

Strengthened competitiveness in terms of technology and cost structure of the product portfolio





Fundamental reorganisation of the Group!



Comprehensive Adjustments of Balance Sheet

Reason

Significantly deteriorated business prospects in various markets, due in part to the COVID 19 pandemic; increasingly significant difference between equity and market capitalization



Effect

- Maximum transparency for capital market and potential future (anchor) shareholders
- Maximum reduction of balance sheet risks.

| Cluster | Value Adjustment | Explanation |
|---------------------------------|---------------------|---|
| US Business | € 19.0m | Intangible assets from acquired companies, inventories |
| Deteriorated business prospects | € 65.0m | Inventories, intangible assets for development work and adjustments of assets from long-term development contracts, intangible assets from rights of use and acquired companies, accrual for impending losses |
| Reversal of Voltamotion sale | € 16.6m | Effect from reversal of sale of rights of use due to COVID-19 pandemic |
| Total | € 100.6m | |



Postponement of Annual Report

Cause

paragon publication on March 3, 2020 regarding intention

to sell financial interest Voltabox

Emergence of the corona crisis and increasing impact on

Voltabox business

Reason

Effects on consolidated financial statement under

intensive examination of the auditor

Corona influence on business development in 2020 according to IDW (Institute of Public Auditors in Germany) to be taken into account in the management report of the 2019 financial statement



e.g. because of extraordinary impairment test

Postponement of audited consolidated financial statement

Effect

Best possible transparency for capital market



2019 Preliminary Results

€ 70m to € 80m

-8% to -9%

Forecast 2019(e) as of August 12, 2019



One-off adjustments of assets according to still unprofitable US subsidiary and deteriorated business prospects

-187.8%

Preliminary results fiscal year 2019 as of May 8, 2020



Expansion of the Management Board



Dr. Burkhard Leifhelm (CTO)

- studied mechanical engineering at RWTH Aachen University and earned his doctorate there
- worked for more than ten years at Hella KGaA, ultimately as head of the unit Operational Excellence
- established REFA specialist

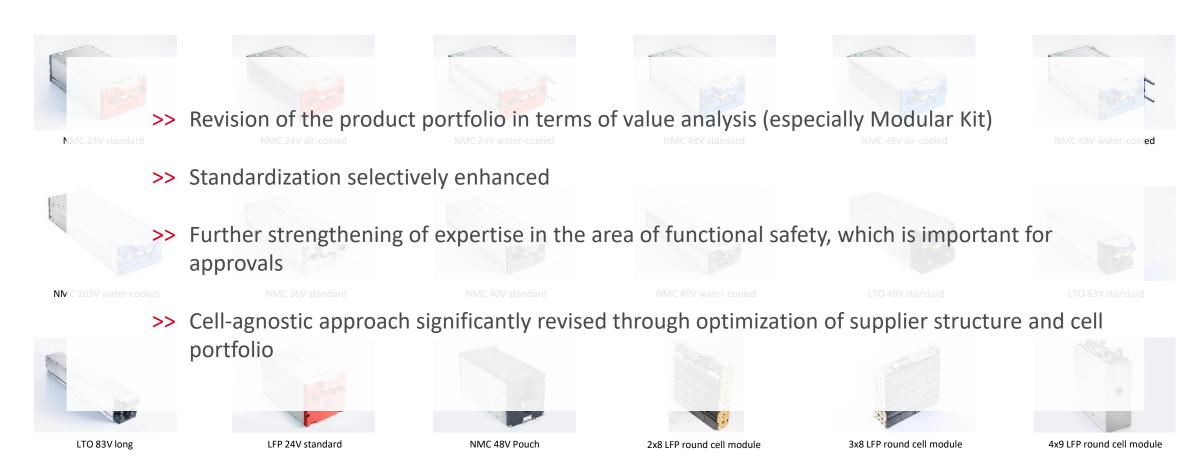


Patrick Zabel (CFO)

- holds an Executive Master of Business Administration (MBA) and a Bachelor of Laws (LL.B.) degree from the University of Münster
- former corporate account manager at a large savings bank and project manager at PwC (responsible for auditing large, capital market-oriented companies and advised clients on basic accounting issues in accordance with IFRS and HGB); expert in international accounting



Preparations Done for the Post-Pandemic Era

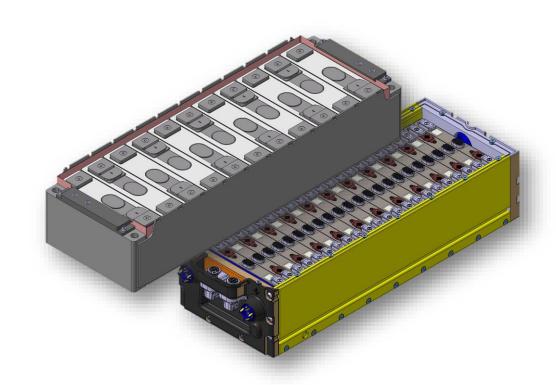


^{*} Excerpt from product portfolio.



Preparations Done for the Post-Pandemic Era

- Improvements through omissions of cost-intensive materials and components - e.g. reduction of screws or of cross sections of aluminium strands
- Optimization of the module concepts according to the requirements of the applications – e.g. cheaper housings
- New housing concepts can still be produced on existing lines > time advantage in assembly due to fewer components
- Standardization, where possible, expanded e.g. battery management systems
- Adjustment of charging cycles according to application

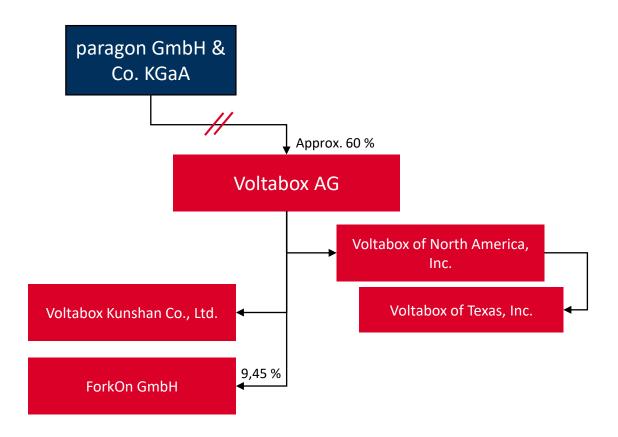


Enlargement of the modular kit and expansion of the solution portfolio, more strongly oriented towards customer needs, cost leadership enabled!



Sales Process Initiated by the Majority Owner

- Options currently being weighed by the majority shareholder paragon range from a partial sale to the sale of the entire stake
- Ever fewer overlaps between both company's business models
- Preferred buyer: well-capitalized, strategically interested owner(s) that has (have) a strong international footprint (e.g. industrial company) in order to scale the business of Voltabox globally and thus exploit its full growth potential
- Current status: several interested companies, numerous conducted preliminary talks, capital market recovery bolsters the expected achievement of our sales targets





General Outlook

Original **revenue** forecast

€ 85m to € 100m

Original **profitability** forecast

about 15 % (EBITDA margin)

5 % to 7 % (EBIT margin)



- Still low visibility in the context of the COVID-19 pandemic
- Increased caution in planning on the customer side because of uncertainty about the further development of the pandemic
- High bandwidth due to several possible scenarios of business development in 2020
- Successful sales activities in 2019/2020 to be continued in order to prepare for sustainable growth from 2021 onwards



Key Achievements Made & Objectives for 2020

Challenges solved and **achievements made** in 2019

- Restructuring on a small scale and successful focusing on the most promising markets for sustainable growth
 - Risk reduction of supply bottlenecks regarding crucial materials
 - Introduction of new planning methodology
 - Significant reduction of trade receivables, now much more diversified
- Optimization of material costs and product development value-saving revision of product portfolio

Further implementation of lessons learned in 2020 and 2021 and overall objectives

Returning on growth track and establish basic production

Establishing diversification of customer base

Further optimizing margins of products/systems

Preparing future series production ramp-ups

Increasing footprint in focused markets via continuation of successful sales activities

Further reduction of Net Working Capital

Reaching break-even

Stabilizing US subsidiary in revenues, earnings and utilization

Deliver and

regain

confidence!



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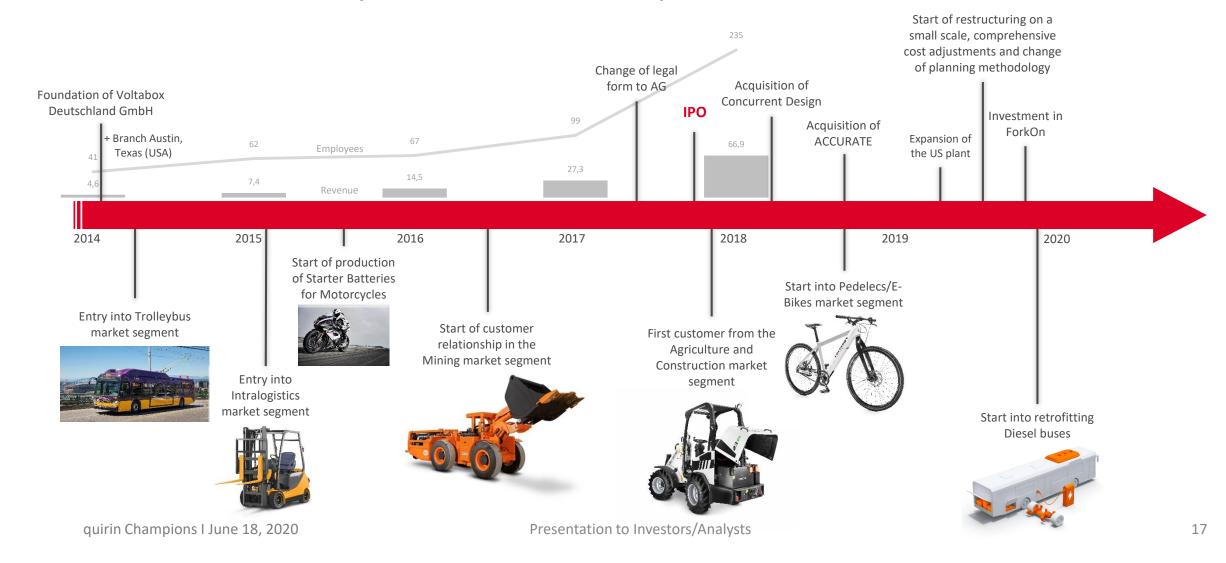




Back-up



Voltabox Corporate Development





Location Overview

of Texas, Inc.

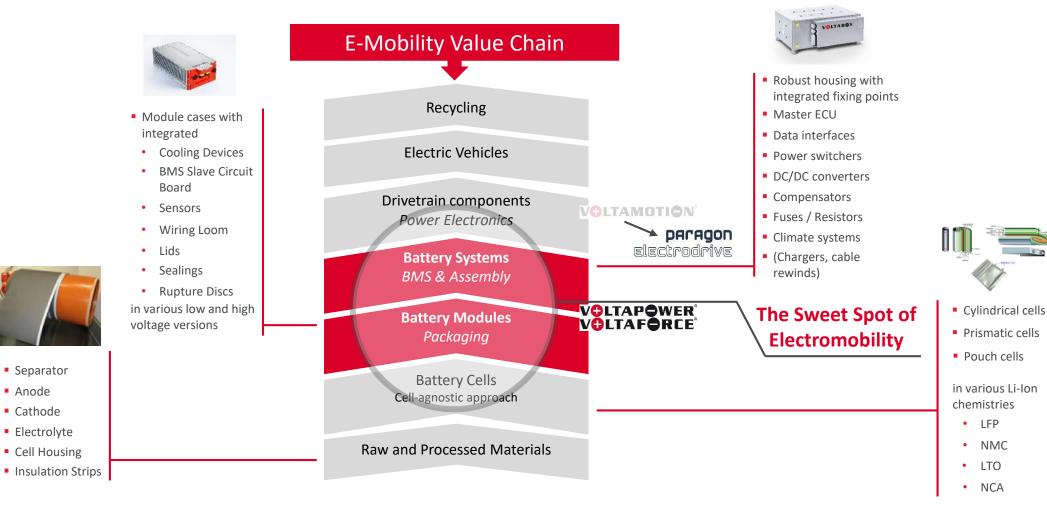


of North America, Inc.

5,300 square meters



E-Mobility Pure Play



Anode

Cathode



Modular Development & Production Approach*

































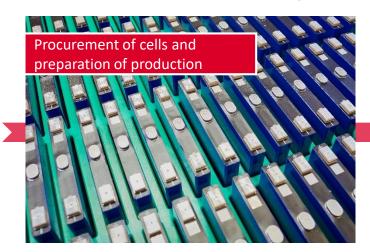


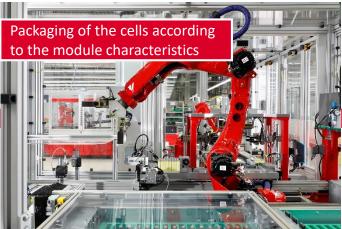


^{*} Excerpt from product portfolio.



Production Steps - From the Cell to the Complete System





End-of-Line Tests





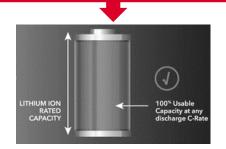






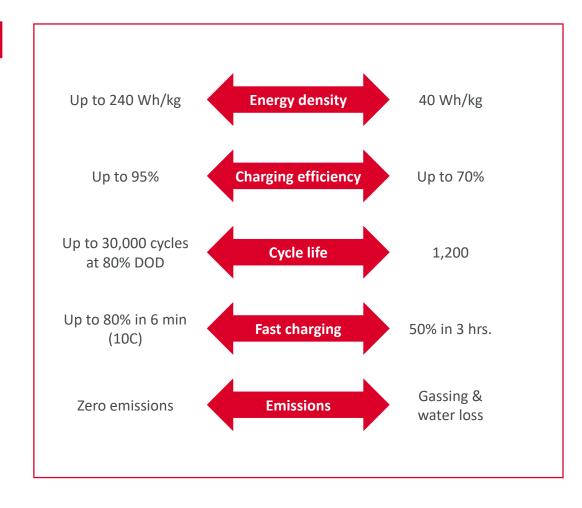
TCO-Advantages Driving Substitution of Lead-Acid by Li-Ion

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!

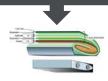
Cylindrical



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)

Prismatic



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

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

<u>Lithium Iron Phosphate (LFP)</u>

- 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.



Distinguished Cell Expertise in the Group



Cell Supplier Base (Selection)





















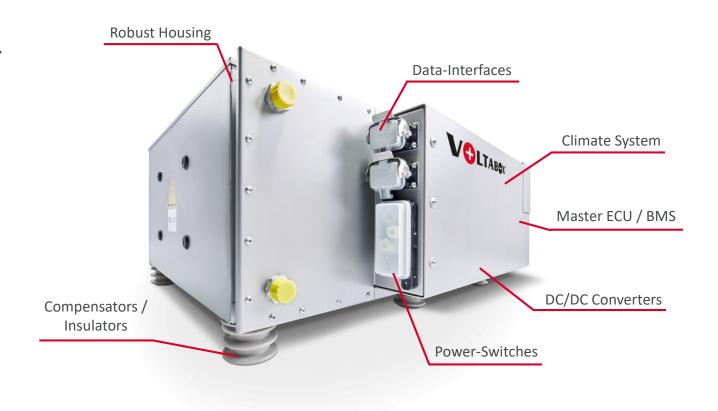


On paper, lithium-ion technology has been convincing right from the start. However, after we have installed numerous Li-Ion-based systems in the market over the past few months, the strengths of the cell chemistries we use are also evident in practice. Lithium-ion battery systems impress with their flexibility, high charging rates, long service life and massive advantages in terms of total cost of ownership.



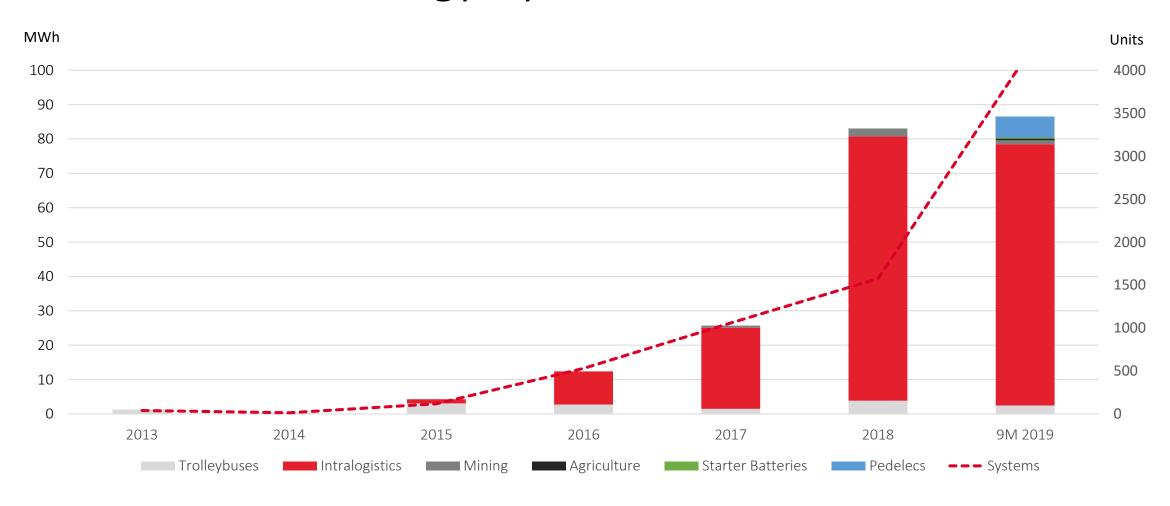
Li-Ion Battery System Supplier for Defying Applications

- 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)





Installation of Energy by End Markets

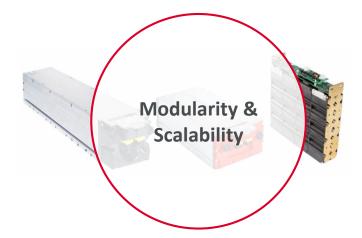




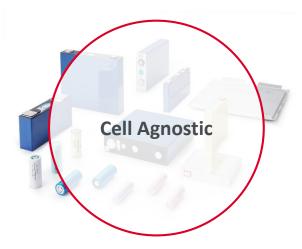
USPs of Voltabox

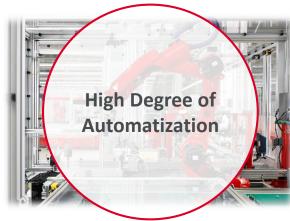














Countermeasures for Optimizing the Cost Structure

| 1 | Personnel cost adjustments (Delbrück) | Large reduction of annual personnel costs and reduction of temporary workers - mainly effective from 01.01.2020 | \checkmark |
|---|---------------------------------------|---|--------------|
| 2 | Personnel cost adjustments (Austin) | Reduction of personnel costs in 2019 already effective today | \checkmark |
| 3 | Sharpening of development focus | Focus on 38 projects (including 23 projects with higher priority) with stringent controlling | |

Savings on fixed costs of 30 % in 2020

4 Material savings through double size technology

Especially cost optimization of battery module for new cells of several manufacturers





New Planning Process



Reason:
Sales postponements
in 2019



Revision of the planning process

Consultation of a specialized auditing and consulting company

Clusters according to sales probability, based on sales process

 Short- to medium-term planning remains at the level of individual customers Distinction between nominal and valuated sales figures

- Signed framework agreements = high probability
- Bidding = very low probability

Integration into sales process

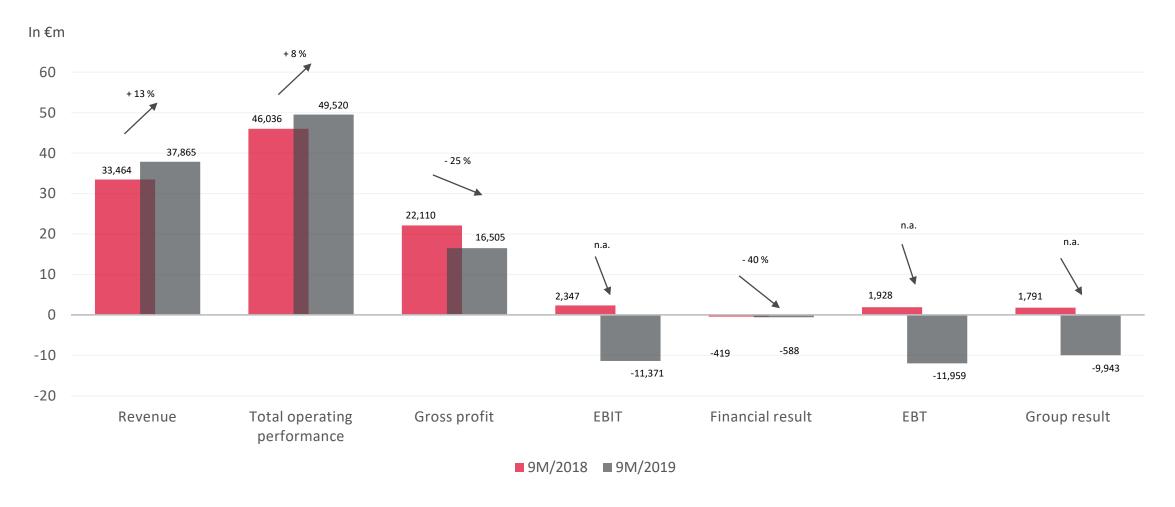
 Newly introduced sales tracking tool incorporates evaluation mechanisms and updates them on a daily basis Parameterization of sales data

- The project character of Voltabox sales is taken into account much more strongly
- In the future, potential timerelated ramp-up effects from the industrialization of projects will also be evaluated

No impact on total order backlog – changed conservative approach shall allow more realistic estimation of future revenue recognition



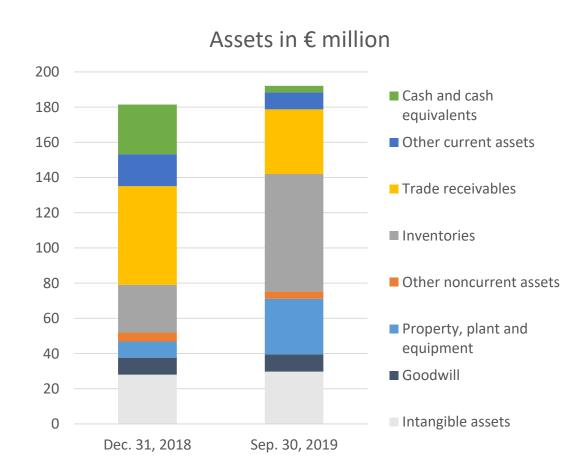
Ongoing Top-Line Growth at a Negative Profitability





Key Developments of Assets

- Increase of noncurrent assets by € 23.3m
 - Property, plant equipment € +22.3m IFRS16 (Leasing) effect
 - Other assets € -3.1m Reclassification of noncurrent rental prepayments in property, plant and equipment due to IFRS16 & recognition of contractual assets
 - Deferred tax assets € +2.1m Recognition of loss carryforwards
- Decrease of current assets by € 12.8m
 - Inventories € +39.6m supply of production material, which will be used primarily in 2020 for planned projects
 - Trade receivables € -19.3m repayments from important customer
 - Liquid funds € -24.9m expansion of operational business activities, prefinancing of production and spatial expansion of US site
 - Receivables from related parties € -11.3m Repayment from parent company





Key Developments of Equity and Liabilities

- Increase of noncurrent provisions and liabilities by € 14.1m
 - Noncurrent loans € +0.8m
 - Noncurrent liabilities from Finance Lease € +13.1m
- Increase of current provisions and liabilities by € 7.2m
 - Trade payables € +7.6m
 - Liabilities to related parties € 1.4m
 - Other current liabilities € -3.8m
- Decrease of equity by € 10.7m
 - Equity ratio at 74.9 % (Dec. 31, 2018: 85.3 %)

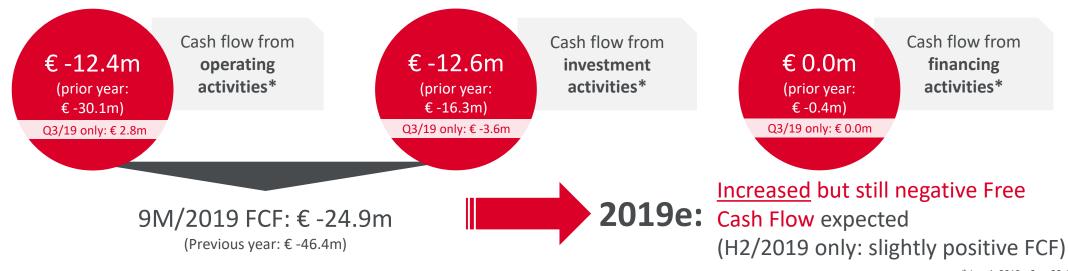
| | Sep. 30, 2019 | Dec. 31, 2018 |
|---------------------------------------|---------------|---------------|
| Equity | 143,779 | 154,484 |
| Subscribed capital | 15,825 | 15,825 |
| Capital reserve | 127,992 | 127,992 |
| Profit/loss carried forward | 9,718 | 7,614 |
| Consolidated net income | -9,943 | 2,579 |
| Currency translation differences | 187 | 474 |
| Noncurrent provisions and liabilities | 21,868 | 7,808 |
| Noncurrent finance lease liabilities | 13,147 | 17 |
| Noncurrent loans | 958 | 141 |
| Deferred tax liabilities | 7,763 | 7,650 |
| Current provisions and liabilities | 26,389 | 19,224 |
| Current loans | 3,535 | 3,539 |
| Trade payables | 16,881 | 9,257 |
| Liabilities to related parties | 1,910 | 557 |
| | 194,308 | 181,516 |



Cash Flow Statement 9M/2019

Operating Cash Flow increased by € 17.7m compared to prior year and characterized by countervailing effects

- Inventories increased again in the light of sourcing cells which will be used in the coming year in projects underway
- Trade receivables decreased significantly according to plan and will be further reduced until the end of the year



* Jan. 1, 2019 – Sep. 30, 2019.



Market Entry in 2020 - Conversion of Diesel Buses





- Sales expectation in higher single-digit million range in 2020 strong increase in sales figures from 2021 according to e-troFit
- Newly validated cells at Voltabox are ideal for application (cost and functional benefits) - Voltabox as sole battery system supplier
- e-troFit battery module can also be used for intralogistics (less dependence on previous main cell supplier)





Energy Thought Flexible – Voltabox Mobile Power Units

- Voltafox are the new mobile energy storage devices from Voltabox - Portable lithium-ion battery system for a wide range of applications
- Voltabox uses its ready-developed and powerful forklift battery system for this purpose
- Optimum use for stock of prismatic NMC cells/modules (1. Generation)
- Various scalable designs and performance features possible



Characteristics

- LTE/3G/4G/GPS connectivity
- Remote control via Web-APP
 - Proactive recommendations for exchange by providers
 - Location determination, anti-theft protection

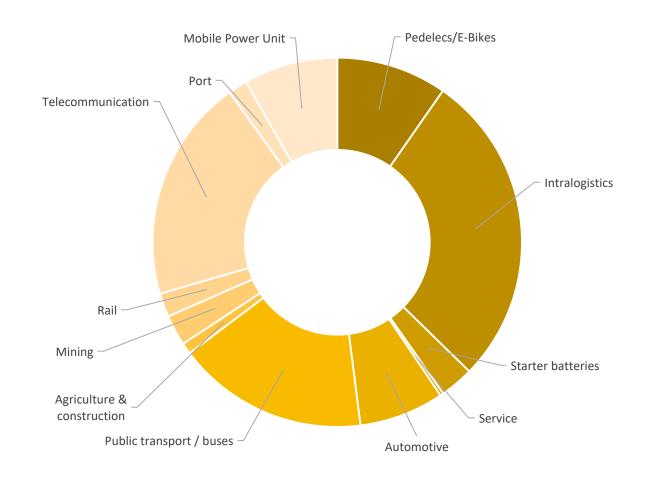


Presentation to Investors/Analysts



Sales by Markets in 2020 (Original Planning)

- Continuation of the significant reduction in bulk risk with regard to major customers in the intralogistics sector
- Focusing within the occupied markets and further development of standardized solutions allows more efficient development and shorter time-to-market
- New (sub-)sales markets planned in the following areas
 - Public transport / buses (conversion of diesel buses)
 - 5G network
 - Mobile Power Unit (mobile battery storage for flexible use)
 - Port and rail applications





Original Forecast for Fiscal Year 2020

Sales

Revenue

€ 85m to € 100m **Profitability**

EBITDA margin

about

15%

EBIT margin

5% to

7%

Cashflow

singledigit positive **CAPEX**

Investments about

€ 12.5m

thereof about

70% capitalized development costs



Performance of Voltabox Share (VBX) since IPO

