

Schaeffler E-Mobility – Growing our customer reach HSBC Fireside Chat

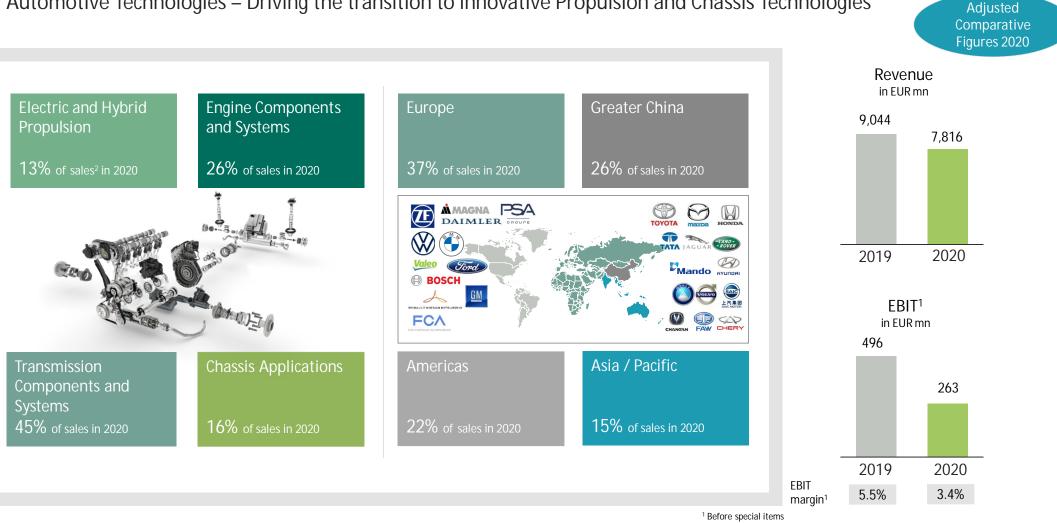
Dr. Jochen Schröder Head of E-Mobility June 1, 2021

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Agenda

Where we stand
Where we play
How we win
How we create value

Where we stand



1 Where we stand

Automotive Technologies – Driving the transition to innovative Propulsion and Chassis Technologies

June 1, 2021 Schaeffer E-Mobility | HSBC Fireside Chat

² Including Chassis Mechatronics Systems, Fuel Cell & Thermal Management Systems 4

2 Where we play

2 Where we play

Harvesting the Mature, Growing the New – Today we focus on E-Mobility

Mature Business **New Business** Vision Powertrain 2035 Global Light Vehicle Production Products for Powertrain agnostic¹ Powertrain agnostic¹ **Products for** ICE and HEV products products **Electrified Powertrains** 15% ICE 30% 56% 35% HFV 88% 40% xEV 32% 50% Ball Screw Drive for Steering 8% Example 12% 2020 e 2025 e 2030 e 2035 e **Rear Wheel Steering** 3in1 E-Axle HEV ICE xEV ¹Independent from powertrain type Decreasing potential Strongly increasing potential Increasing potential

2 Where we play

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E-Mobility Propulsion portfolio today – Components and Systems



We are extending our portfolio of E-Mobility due to high relevance for future powertrain systems

2 Where we play

Focused and fast-paced E-Mobility portfolio expansion since 2019

First SOP for First E-Motor First 3in1 DHT Construction start First 3in1 Hybrid First Power Electronic HEV HEV xEV HEV xEV HEV Module Hybrid Module nomination nomination E-Mobility plant, Unit nomination for xF\ with Torque Szombathely Hungary nomination with E-Axles Converter integrated Torque Converter Q1/2019 Q2/2019 Q3/2019 Q4/2019 Q1/2020 Q2/2020 Q3/2020 Q4/2020 . . . ELMOTEC STATOMAT ELMOTEC STATOMAT ELMOTEC STATOMAT First 2in1 Hybrid First E-Motor xEV First 2in1 E-Axle HEV First nomination xEV First <u>3in1</u> Hybrid HEV **HFV** First E-Motor xEV Module Module for 3in1 nomination for nomination for nomination nomination with performance Industrial Heavy Duty nomination for inhouse E-Motor E-Axles Heavy Duty Application

3 How we win

Heavy Duty applications – Supplying E-Motors and Hybrid Modules



We are electrifying the Heavy-Duty sector and supporting our customers in achieving their CO₂ targets.

3 How we win

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Industrial applications – Leveraging Schaeffler's Auto and Industrial DNA, Capturing New Growth Opportunities with Cross-Fertilization



- High max. power and max. torque application
- · New important market fields for Schaeffler

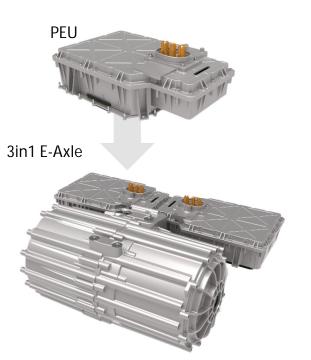
We are further expanding our business with our first E-Motor and eWheel nomination in the industrial sector.

Power Electronic Unit Application – Extending our 3in1 Powertrain Portfolio



PEU for **E-Axle**

800 V Performance Applications





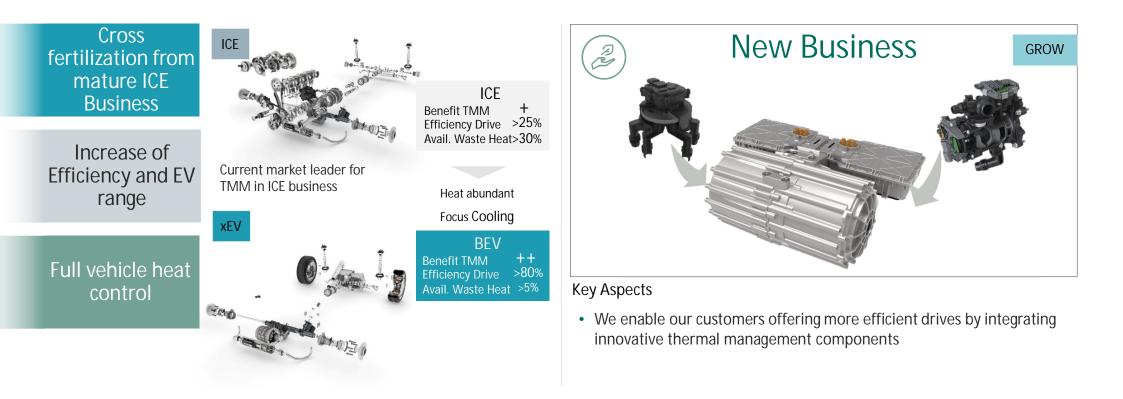
Key Aspects

- First Inhouse Power Electronic Unit for Schaeffler
- E/E² Innovations and Competences build up internally
- Accomplishing our 3in1 product portfolio in E-Mobility
- Integration of power electronic system actuation functions

With our new inhouse PEU solution we harness our E/E² competences and increase business opportunities.

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E-Axles – Reinventing E-Axles by combining all our Components with a Thermal Management System



We have a deep system understanding of thermal management, necessary to optimize an electric powertrain system.

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Fuel Cells – Joining Forces: Schaeffler's Industrialization Power Combined with Refire Fuel Cell System Know-How





Key Aspects

- Development of Bipolar plates and Thermal Management Systems
- Increasing speed in the industrialization process
- Compounding our capabilities in the fuel cell ecosystem

The cooperation with Refire is strengthening the market position of Schaeffler and speeding-up the development and market entry.

Competence

Sustainable Investments in Europe – New E-Mobility production plant in Hungary

New Business

Key Aspects

- 18,000 m³ thereof 15,000 m³ production space (30 hectares area)
- DGNB¹ Gold certification and highly efficient production processes
- Photovoltaic system & Green service-, rain- and wastewater treatment

We will officially open the plant in Hungary in September 2021.





4 How we create value

4 How we create value

What is Schaeffler's role as an Automotive Supplier in an EV world?

We are a strong partner to our Customers and our Customer portfolio grows in reach and scope

We build on our strong foundation of integrated customized technological solutions in automotive components and systems and combine it with our successful, focused and fast-paced transformation

2

We drive innovation on several levels and with maximum flexibility, thanks to competence leveraging and transfer from R&D up to production



We harness the power of our critical mass in purchasing, we share investment in R&D and Industrialization in a win-win mode with our Customers

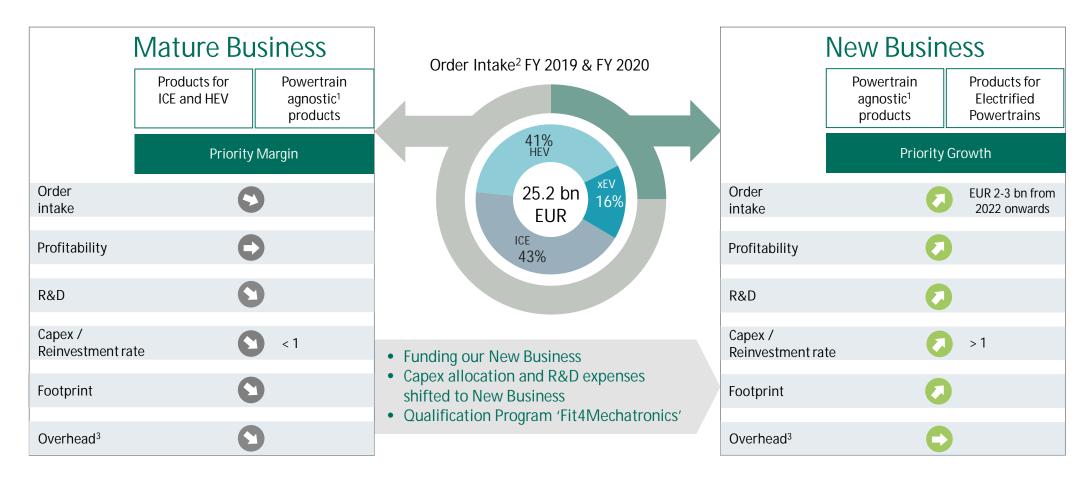
Lastly, modularity and multi customer approach enable agile development, let products mature and production processes adjust, making our proposition compelling

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Fast learning curve in E-Mobility due to broad product portfolio and accelerating customer projects. 4 How we create value

How we Fund our own growth and create value

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¹ Independent from powertrain type | ² Powertrain split of Order Intake without Heavy Duty | ³ Selling & Admin expenses June 1, 2021 Schaeffer E-Mobility | HSBC Fireside Chat

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4 How we create value

Conquer leadership position in Electrified Powertrains

1 We continue to gain a high order intake in electrified powertrains, both for components and systems

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ELMOTEC STATOM

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- 2 We are electrifying the Heavy-Duty sector and supporting our customers in achieving their CO₂ targets
- ³We are further expanding our business with our first E-Motor nomination in the industrial sector
- We are proving our E/E competences and increase business opportunities with our new inhouse PEU application
- ⁵ We are strengthening the market position of Schaeffler and speed-up the development and market entry with the cooperation with Refire

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