

DISCLAIMER



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To the extent available and unless denoted otherwise, the industry and market data contained in this presentation has been derived from official or third party sources and all market and market share data that is not labelled otherwise, has been derived from data published by IHS Markit Ltd. for heavy duty truck (>15t) and (unless denoted otherwise) relates to calendar year 2017. Third party industry publications, studies and surveys generally state that the data contained therein have been obtained from sources believed to be reliable, but that there is no guarantee of the accuracy or completeness of such data. While TRATON believes that each of these publications, studies and surveys has been prepared by a reputable source, TRATON has not independently verified the data contained therein. In addition, certain of the industry and market data contained in this presentation are derived from TRATON's internal research and estimates based on the knowledge and experience of its management in the markets in which it operates. TRATON believes that such research and estimates are reasonable and reliable, but their underlying methodology and assumptions have not been verified by any independent source for accuracy or completeness and are subject to change without notice. Accordingly, undue reliance should not be placed on any of the industry or market data contained in this presentation.

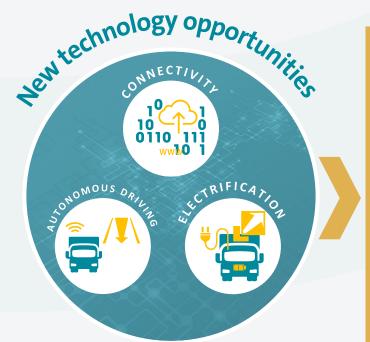
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CREATING A GLOBAL CHAMPION



TRATON

G R O U P







NEW TECHNOLOGIES ARE ADDRESSING INEFFICIENCIES IN THE INCREASING TRANSPORT ECOSYSTEM, INDICATING SUBSTANTIAL OPTIMIZATION POTENTIAL



Commercial vehicles in motion less than 30% of the time



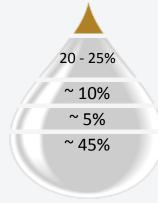
~60% of total length available for additional load



~7% of road accidents involve trucks





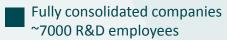


Moving the base vehicle and trailer
Driving waste
Truck and trailer loss
Engine efficiency

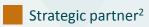


Better transportation makes a better world

GLOBAL ENGINEERING COMMUNITY





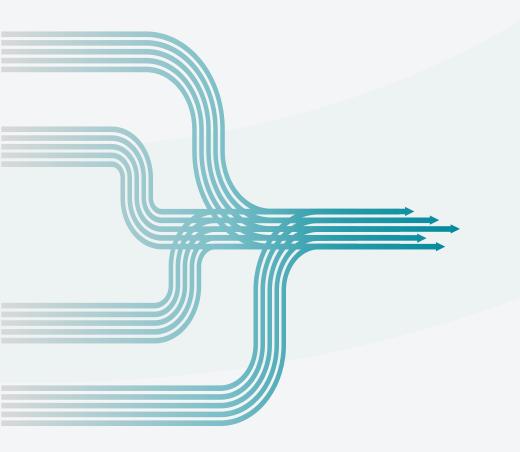






TANGIBLE SYNERGIES WITHIN ENGINEERING AND PRODUCT DEVELOPMENT









2 Mo

Modularization and components





New technologies



LEAD ENGINEERING IN JOINT POWERTRAIN PLATFORM



Time to market

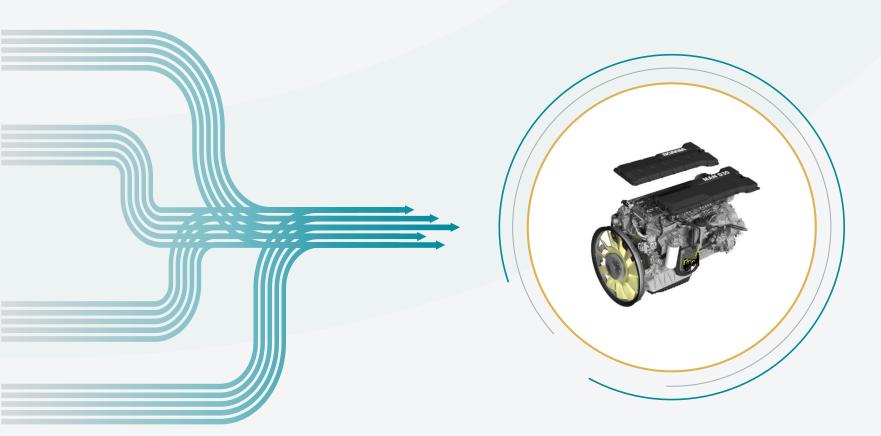
State of the art product properties

Higher resource efficiency and lower product cost



ONE EXAMPLE OF JOINT POWERTRAIN





Common Base 13l Engine (CBE) – our jointly developed HD powertrain platform

- More than 50% Brake Thermal Efficiency
- Globally ready for future emission legislations
- Expected to be installed in >50% of alliance's HD trucks¹ per year from 2025 onwards

MODULARIZATION AND COMPONENTS



What is the objective?



We want to **drive synergies** for the brands with maintained or improved **customer value** by

- Reducing complexity via common components
- Reducing material cost
- Optimizing customer offer through refined set of performance steps
- Free-up R&D resources to invest in future technologies

Several waves launched



- Wave 1: Urea tanks, batteries ...
- Wave 2: Propeller shaft, steering system ...
- Wave 3:
 Brake system, air compressors ...

Urea tanks



Potential opportunities of ~10 % in product cost savings

- Harmonization of production technology
- Market benchmarking and comparison of price levels
- Portfolio overlap investigation and prioritization

MODULARIZATION AND COMPONENTS

Common Layout Team working with:



Customer need – GTW, rolling resistance, start/stop frequency, topography etc.



Well balanced performance steps – derived from the customer needs



Standardized interfaces – modular kit with clear interfaces



Global organization from all brands



WE ARE DRIVING THE DISRUPTIVE TRENDS







MORE THAN 450K CONNECTED TRATON VEHICLES ON THE ROAD TODAY



TRATON has a strong position in connected fleet ...

TRATON

approx. 450k connected vehicles

Navistar's OnCommand Connection expected to join group solutions in 2019

Enabling >900k connected vehicles





All new medium- and heavy duty (Euro6) trucks in Europe equipped with **RIO** telematics box



planned for 2019

... strengthened by several investments and partnerships with innovative technology companies









Offers connectivity environment, went live in 2017

Exemplary partners:











WE ARE DRIVING THE DISRUPTIVE TRENDS







ELECTRIFICATION ROADMAP

TRATON

2020+

TEST FLEETS TODAY





eTruck





PHEV Truck





Pantograph Truck





E-Delivery



Various other test fleets













Drivetrains

Central, Mild hybrids, High Speed Motors, eAxles

Energy storage

Energy optimized, Power optimized

Charging

Rail on roof, On board

Auxiliaries and Cooling/HVAC



WE ARE DRIVING THE DISRUPTIVE TRENDS







AUTONOMOUS DRIVING ROADMAP



TEST FLEETS TODAY

2020+

2025+





Construction Signaling Vehicle





Autonomous Mining Vehicle





Platooning A9
DB Schenker



Various other test fleets



ADC

ADAS Domain Controller

Sensor platform

Radar sensors, cameras, lidars, automation architecture

Functions

Traffic Jam Pilot, Autopilot for Highway, Platooning





Common conventional Powertrain





