

Cargo DB Cargo: Sustainable finished vehicles distribution

ECG Conference 2021

15.10.2021 | Pierre Timmermans | Member of the Board Sales

Contents



- 1. We are green. We deliver the goods.
- 2. Network-based Solutions
- 3. Equipment for Future
- 4. Resilience gains Trust
- 5. Digitalisation and Automation

We are green. We deliver the goods.



-80%² 2021

Compared to road transport, rail transport saves over 80% CO_2^1 .

We are constantly working to further improve this **environmental benefit.**

(1) Quelle: TREMOD 6.16 (2) less CO2 compared to the transport by lorryDB Cargo AG | Pierre Timmermans | ECG Conference 2021 | 15.10.2021

Use of carbon neutral propulsion systems Conversion to "whispering brakes" Brake energy recovery systems Driver assistance system Leader Training of train drivers

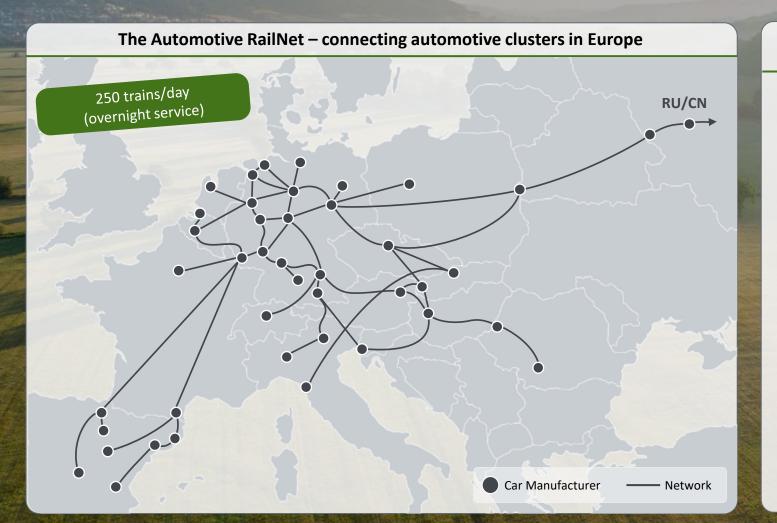




Network-based Solutions

Our Automotive RailNet supports the carbon-neutral transport of cars and components.





We are the logistics service provider for the automotive industry

Network Capabilities

- Intelligent combination of Inbound and Outbound flows
- Connecting suppliers and OEMs
- Using bundling effects for short lead times and high frequencies



Network expansion

- Corridor-based extension, also for battery manufacturers
- Creation of new network access points



Eco-friendly

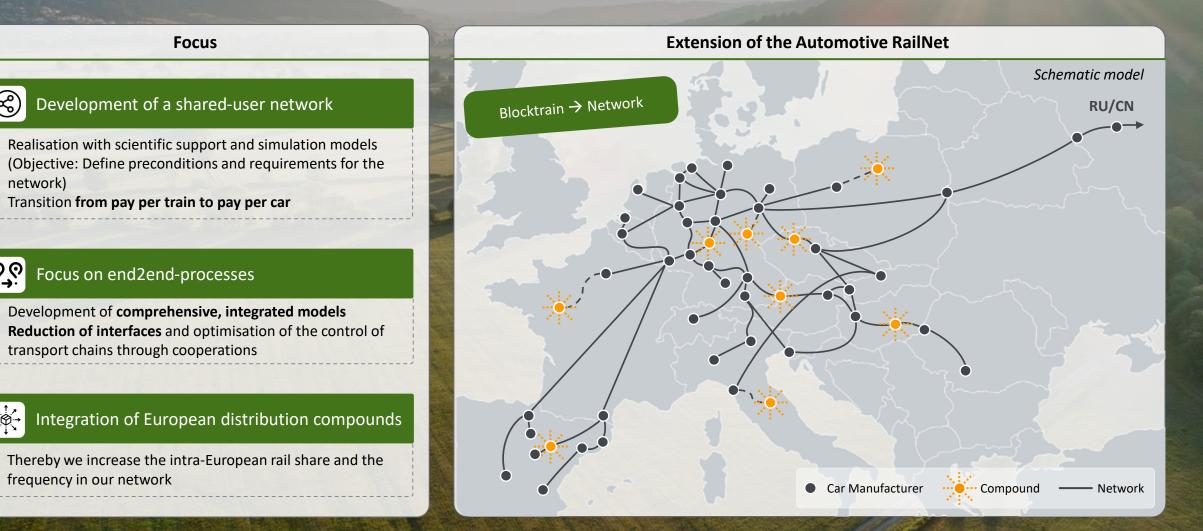
Significant CO₂ savings through the network

Network-based Solutions

 $\odot \odot$

We will extend rail share in finished vehicle distribution by providing network capacities instead of block trains.





Equipment for Future In order to meet the efficiency and sustainability needs of our customers, we invest in new equipment.



Cargo

Double-decker BA 560/BA 561

- **Characteristics:**
- High payload for electric vehicles
- High flexibility due to an adjustable upper loading deck
- Ideal for carriage of a wide range of passenger car segments
- Simple and safe handling
- Tracking & Tracing for higher efficiency
- Quiet brakes to protect people and the environment







Modular Logistics Wagon (m²)

- **Characteristics:**
- High flexibility and utilisation due to modular concept (m^2)
- Industry-optimised superstructures _
- Life cycle optimised concept

Electric (terminal-)tractor units



- **Characteristics:**
- No local CO₂-emissions
- **Reduced noise** emissions
- Better operating point and thus more **energy-saving** during shunting activities

Hydro-treated Vegetable Oil (HVO) locomotives

Characteristics:



- Reducing the consumption of conventional fuel on non-electrified lines
- Reduction of nitrogen oxides and soot
- Saving up to 88% of CO₂-emissions

Resilience gains Trust What we at DB Cargo mean by resilient logistics concepts.



Definition of resilience		Capernet	Endogenous events	Exogenous events
Resilience is the ability of a system to react to an event that temporarily changes it and then return to the initial state of operation.	These events can be characterised	Unintentional (error)	accident resulting from technical failures or operational error actions	natural hazards, accidents at level crossings, failures of dependent infrastructures
		Intended (attacks)	strikes, sabotage	terrorism, crime, IT attacks
Resilience areas in the rail sector				



Railroad safety technology



Railroad operation



Timetable construction



Network structure



Consideration of buffers



Fallback options (rail/lorry)

Experience has shown that complete protection or absolute security against hazards and impairments of systems is not possible. High resilience as a system property is therefore particularly necessary for critical infrastructure such as the railroad.

Digitalisation and Automation

Digitalisation and automation help to make railway systems even more sustainable, efficient and resilient.



