



The Trailer Company.



The Future of Trailer Technology

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SCHMITZ ANHÄNGER
FAHRZEUGBAU - GESELLSCHAFT M.B.H. ALTENBERGE (WESTF.)

WESTWAGGON
WAGGONFABRIK A.G. LÜTTICH-WAGGON

Für alle Zwecke Lutesäcke!

SCHMITZ Lufthansa
AUFBAU

VÖCKING AHAUS

E. Vöcking
Autosport
Ahaus L.W.
Tel. 111

EMÖLLER

Internationale Seed
BIELEFE

SCHMITZ

ANHÄNGER

SCHMITZ

134



Technology in 2001

Individual products



*Source: Flickr.com



*source:sacomputer2009.com



Technology in 2020

Connected Solutions



Why is the transport industry investing in building digital ventures?



Technology is leading in 2020

Most valuable global brands in USD Billion*

Technology sector, total value of 5 companies:
\$695 Bn

Finance sector, total value of 5 companies:
\$296 Bn

Automotive Industry, total value of 5 companies:
\$224 Bn

S.KO COOL SMART Reefer Semi-Trailer

100% Smart by Schmitz Cargobull

- ◆ **Standardised temperature recorder**, certified to DIN EN12830 and GDP standard
- ◆ **Remote control** of refrigeration unit and door locking mechanism
- ◆ **Intelligent gateway** to all systems is detecting errors before they occur
- ◆ **24/7/365** Pan-european breakdown service center
- ◆ **“Live” diagnosis** of all vehicle components
- ◆ **Common display** for use of sensors and components



Automated Door Locking (TL3)

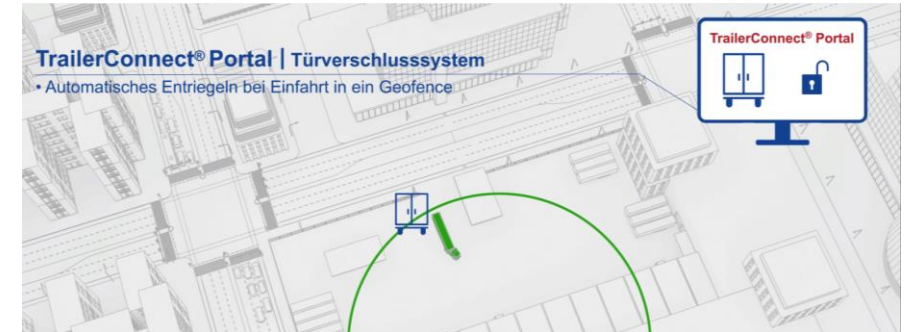
Safety through automation

- Locking and unlocking the TL3 door locking system in the S.KO Cool Smart without manual effort by dispatch or driver
→ saves time and increases safety

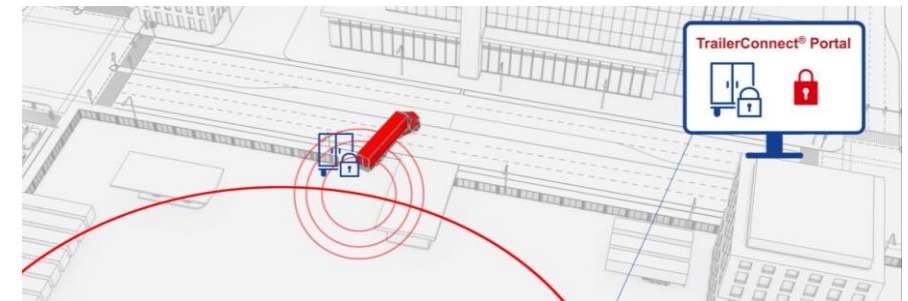
Messages - 16000556

From	To	Date	Position	Message	Acknowledged by	Acknowledged on	Comment
16000556	DE 48965 Steinhilber	28.11.2019 13:04	DE 48965 Steinhilber	Door has been unlocked due to Auto-Lock			
16000556	DE 48965 Steinhilber	28.11.2019 13:00	DE 48965 Steinhilber	Door has been locked due to Auto-Lock			
16000556	DE 48341 Altmann	28.11.2019 12:56	DE 48341 Altmann	Door has been unlocked due to Auto-Lock			
16000556	DE 48341 Altmann	28.11.2019 12:39	DE 48341 Altmann	Door has been locked due to Auto-Lock			
16000556	DE 48965 Steinhilber	28.11.2019 12:34	DE 48965 Steinhilber	Door has been unlocked due to Auto-Lock			
16000556	DE 48965 Steinhilber	28.11.2019 12:30	DE 48965 Steinhilber	Door has been locked due to Auto-Lock			
16000556	DE 48965 Steinhilber	25.11.2019 10:31	DE 48965 Steinhilber	Door has been unlocked due to Auto-Lock	Dirk Laatzke	02.12.2019 08:46	
16000556	DE 48341 Altmann	25.11.2019 10:20	DE 48341 Altmann	Door has been locked due to Auto-Lock			
16000556	DE 48341 Altmann	25.11.2019 10:18	DE 48341 Altmann	Locking of door due to Auto-Lock has been failed			
16000556	DE 48907 Oetzel	25.11.2019 09:38	DE 48907 Oetzel	Door has been unlocked due to Auto-Lock			
16000556	DE 48907 Oetzel	25.11.2019 09:36	DE 48907 Oetzel	Door has been locked due to Auto-Lock			
16000556	DE 48907 Oetzel	25.11.2019 09:33	DE 48907 Oetzel	Door has been unlocked due to Auto-Lock			

- Max. Safety during transport due to automatic locking



- Documentation of all locking and unlocking processes creates additional transparency



Smartphone app „Besmart“

The innovative app for the driver or the workshop



„BeSmart“ – functional overview*

For the following components you can receive „push-notifications“ exclusively to your mobile device:

- **Tyre status:** Receive pro-active notifications, if a specific tyre has low pressure or will reach a critical temperature.
- **Aggregate load:** Keep an eye on the overall load of the trailer.
- **Brake pads:** If a brake pad is worn and requires replacement, the app will identify and allocate the worn item.
- **Temperature analysis:** Oversee compliance of temperatures and receive alerts, if the temperature deviates.
- **Temperature report:** The app allows you to create a temperature report and send it to your customer from the smartphone.
- **Refrigeration unit:** Receive error codes from the refrigeration unit to ease-up maintenance. In addition and for greater convenience, you can control the refrigeration unit.
- **Door locking system:** Exclusively control the TL3 with this app.

100% SMART SOLUTION

The trailer industry has digitalised trailers

- **Intelligent network**
of all trailer components
- **Common display**
for use of sensors
and components
- **“Live” diagnosis**
of all vehicle components
- **Digital temperature**
recorder integrated, certified to
DIN EN 12830



Electric innovation and hybrid technology

100% cooling, 0% emissions



Optimised temperature control especially for the transport of sensitive goods



0 g per kilometre



Inc. Piek certificate
for standard introduction



Robust lithium-ion batteries
80 kW/h

- Batteries charged using standard CEE plug
- Modular design with various battery capacities available
- Battery mounted near landing gear
- Pallet box can still hold 36 pallets

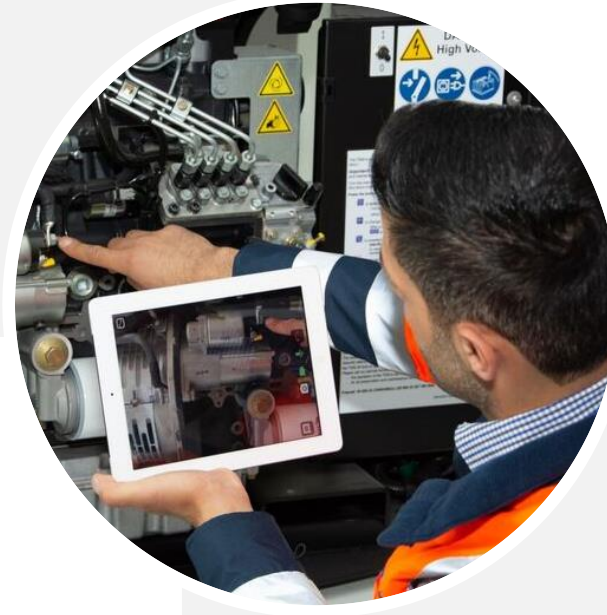


Smart After Sales

Highly efficient services for service partners

Remote Maintenance Assistance

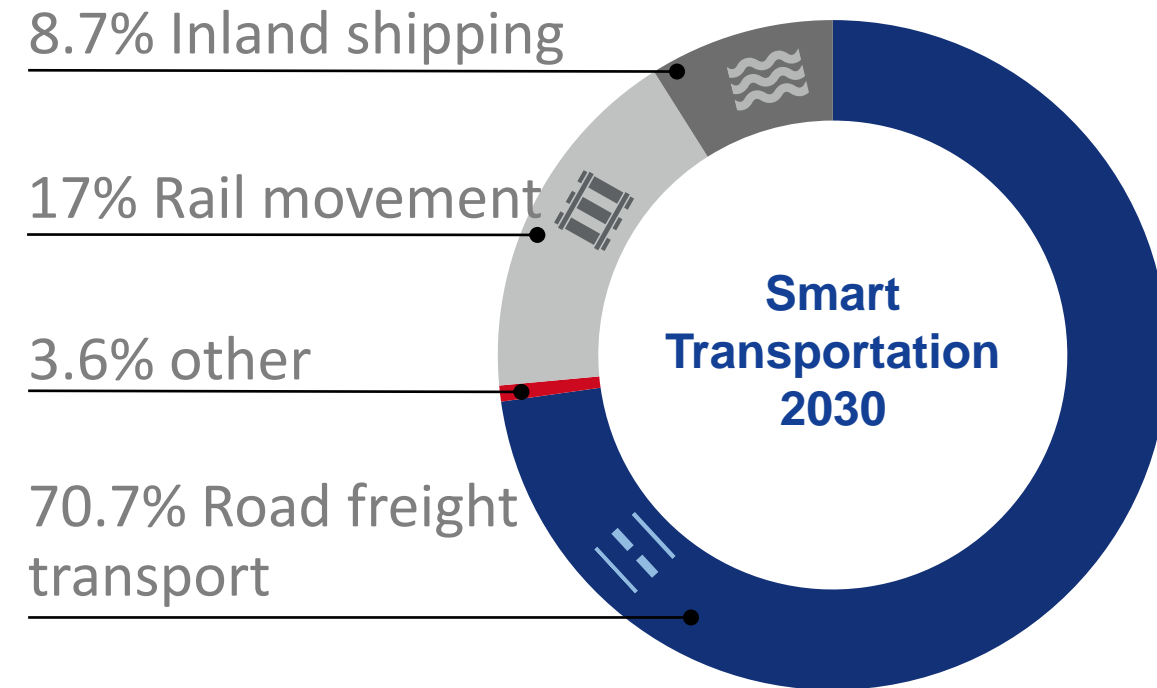
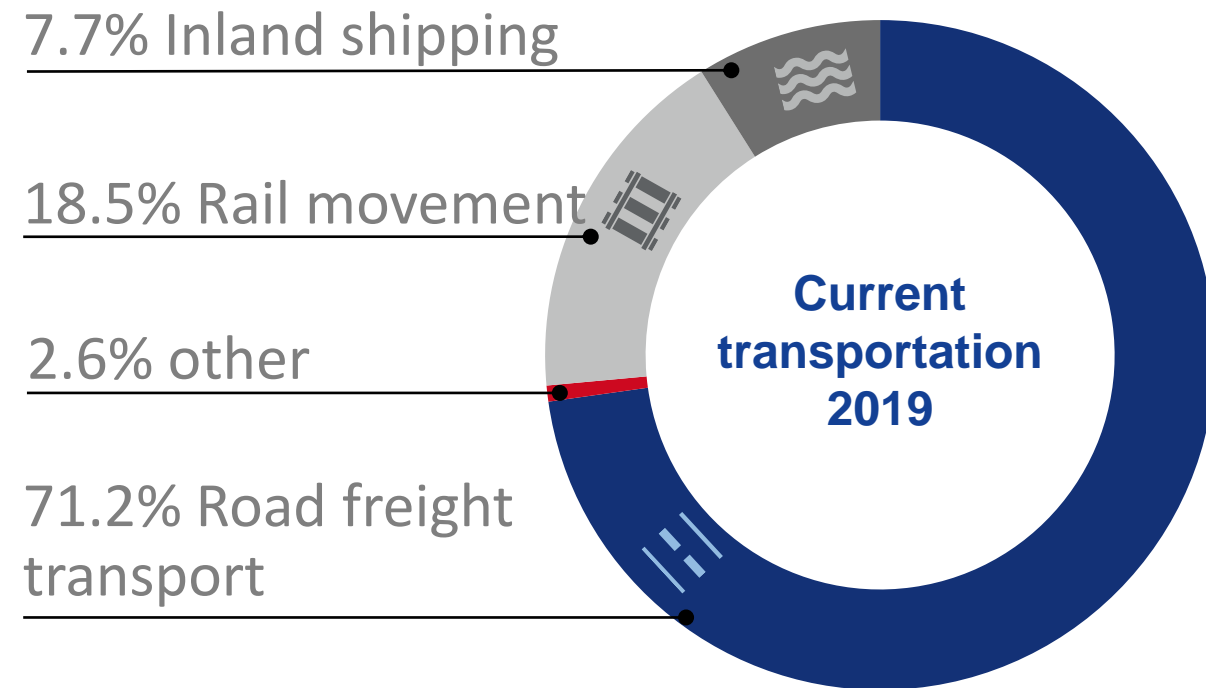
- Worldwide & mobile knowledge exchange in service
- Fast live support of 3rd level support
- Interactive live communication of several participants
- Easy use of service documentation



Virtual Reality Service training

- Effective virtual product and service training
- With hands-on features
- Extended reality of otherwise invisible processes e.g. coolant in the cooling circuit
- Can be used worldwide - no language barriers

Mode of transportation 2019 vs 2030* in Europe





(More than)
The Trailer Company.



Successful transport will be smart transport