



Sustainable Logistics

Insights from various projects

Chances and Opportunities of Sustainable Logistics for SME



Differentiation in the market by more sustainable approaches in logistics



Sustainability has become a *qualification criteria* in a growing number of tender negotiations. Shift from road to rail, utilization of low-emission technologies and capabilities in emission accounting are key criteria.



Optimization of cost structures by utilization of new technologies an processes



Digitalization of important processes and utilization of new technologies is driving the efficiency and have a *positive impact on cost structures*. Hence, sustainability can be a driver of profitability.



Strategic opportunities



SME's can become strategic partners of shippers and large 3PL/4PL by specializing on certain niches or sustainable approaches and technologies. A *repositioning* in the market is possible.

Projects in Sustainable Transportation



iHub

- Prototype of a 12 t full-electric truck in Berlin.
- Second life concepts for used batteries were in the focus of the project.
- New business models in sector coupling are possible
- In that context, digitalization has major impact on new business models.



Einride T-Pod

- The Swedish start-up Einride developed an autonomous and full-electric transport vehicle.
- The T-Pod was operating between a DB Schenker Terminal and warehousing side.
- The major goal was to evaluate the potential of autonomous transport vehicles in several use-cases.



EDDI

- The project EDDI was focused on potentials and use-cases of platooning in transport operations.
- The prototypes have proofed a high technical robustness (98%).
- Fuel savings have not met the expectations. Overall around 4% fuel saving was possible under the given circumstances and limitations.



FUSO eCanter

- The eCanter was the first mass-produced full-electric truck in the DB Schenker fleet in Germany.
- Depending on modifications and the operational scenario, the eCanter can load up to 4,5t.
- Battery capacity is sufficient for up to 100 km range, which is suitable for local operation in general cargo.



weColli

- The operational usability and potential of cargo bikes was evaluated in Berlin.
- Goods and food were distributed in specialized containers and could be temporarily stored in Micro-Hubs.
- Results show, that traffic, noise and GHG-emissions in the local distribution area could be reduced.

Findings and Experiences



Electromobility in (sub)urban areas makes sense, since in the future, due to regulation, delivery traffic in inner-city areas will be restricted.



Sustainable materials such as lubricants or improved packaging can not only save resources but also increase transport volumes.



Sustainability must be anchored in the target system and be profitable.



Introduction of CO2 footprint accounting as standard in the industry.



Customers (especially in the B2C sector) are not expected to be willing to pay more. Nevertheless, sustainable logistics is demanded.



Networking between companies can be seen as a driver of sustainability.



Funding criteria and the focus on the acquisition of new powertrain technologies are often not suitable for SMEs. At the same time, SMEs should be more proactive in taking more initiative in terms of sustainability.



Through new and interlinking technologies, economic success can be made possible, for example by bundling shipments.