

Aeolix - Service provider perspectives, challenges and expectations

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T-SYSTEMS – DEUTSCHE TELEKOM'S SUBSIDIARY FOR MAJOR CORPORATIONS



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8,6 BILLION €REVENUE0,8 BILLION €EBITDA46,000EMPLOYEES

Information technology and telecommunications

services in all industries:

automotive, finance, transport, retail & public sector

Pionier in cloud computing

Corporate customers, multinational corporations & public sector

Financial figures taken from DT's 2014 annual report

T-Systems International GmbH

May 2016

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Challenges for european transport policy

Summary of Recommendations

- 1. Driver Shortage
- 2. Enforcement Practices
- 3. Cabotage Practices
- 4. Lack of Innovations and Applications of Good Practice



Policy Actions needed to avoid economic downturn, fast increasing global competition !



(*) Report of the High Level Group on the Development of a Single European Transport Area, June 2012, chaired by Prof. B T Bayliss



ICT as driving force for innovation

- Pay-As-You-Pollute transport policy many examples of successful implementation
- Global logistics challenges –
 i.e. sea-air-road-rail freight corridors
- Transport challenges for intermodal shift towards electric transport modes (CO2 reduction)
- PPP models for Shared Infrastructure Operation



Challenges for ICT services in logistics

>356 TSP, very fragmented market

- One IT platform for the entire process of production, including in- and outbound transparency of all components needed for manufacturing
- Integration of Realtime Services into One IT platform by integration of all sub-systems
- Immediate transparency in case of incidents including automated suggestions for solution management measures
- Integration von infrastructure operators (Harbor, airports, hubs
 ...) including slot booking systems and parking
- BigData Analytics to optimize the planning of the entire Supply Chain Management

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Challenges for ICT services in logistics

From Pull to Production including the entire transport and logistics processes and supply chain using real-time information



Realtime Enabled Transport Logistics

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DB Schenker climate goals by 2020

The energy/CO₂-goals of the various business segments¹



Rail freight

Reduction of specific energy consumption by **-19%**



Air Freight

Reduction of specific CO_2 -emission by **-25%**



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Land Transport

Reduction of specific CO_2 -emission by **-26%**



Ocean Freight

Reduction of specific CO_2 emission by -15% Alternative approach to measure fuel consumption. - just take a Smart Phone and Newtonian Physics.





CUSTOMER BENEFITS - promote best practice



PHYSICAL MEASUREMENT OF DRIVING BEHAVIOR INCREASED BY ACCEPTABLE CENTIVES

Field trial results in CHINA

Recorded total distances :	ca. 800.000 k		
 In the city, extra-urban, highway 			
Recorded time:	ca. 30.000 working hours		
 Documented Devices : 	ca. 15		
100 China, 50 Europe , inclusive 35 in DE			
Documented and verified saving :	4-15 % fuel consumption		
	CO2-Emission (ca. 180L/Month/12-Ton-High duty truck)		
• GPS accuracy:	< 4 m		
Deviation with fixed measuring systems :	< 5 %		
 Installation and registration duration: 	Android < 5 Minutes, iOS < 10Minutes		



REDUCING CO2 EMISSIONS AND FUEL COSTS UP TO 15%

The benefits for ecosystem players just-in-time provision of information from a central point

Logistics hub operators	Logistics hub Managers	Forwarding agents And drivers	Terminal operators	P Parking Lot operators
 Optimized utilization of infrastructure Establishment of a leading-edge service exchange, open and extensible 	 Improved analytics and functionality for managing the flow of goods One-click analysis of big logistics data and KPIs 	 Drivers are informed of truck location, loads and parking space in advance Avoid unnecessary time spent waiting and searching 	 Faster container and freight throughputs Detailed and accurate planning of goods transfers for onward transportation – boosting 	 Visualization of transmit traffic and free capacity Optimized utilization of space Avoid overload situations during peak times
 Boosts the hub's attractiveness as a transshipment location 	 Sound basis for investment decisions 	 Improved transportation performance 	une-enciency	



Living Lab 1 –

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SPL -APP for Android Tablets and SmartPhones



Messaging
Order-Tour-Management
ETA
Traffic
Parking
Slot-Booking
Smart Drive

Fleet managers and logistics operators need VEHICLE trip DATA to control their fleet



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Unnecessary fuel consumption

VISION AND MARKET POTENTIAL of SOLUTION MANY CUSTOMERS GROUPS CAN benefit





BANKS / INSURANCE

- Residual value risk
- Premiums provision



- Goods Tracking
- Logistic entrance planning



www.cogistics.eu



SERVICES/AUTOMOBILCLU BS

- Positioning
- Service Interval Planning



CAR RENTAL

- Locations
- Control and accounting



LOGISTICIAN / FLEET OPERATORS

- Route planning
- Fuel consumption & CO2

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