

Railway transportation between Europe and China The railway in the future - Intermodal Strategies Risks, difficulties, Challenges, Solutions

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Leading network operator in combined transport



926,000 road consignments

1,720,000 TEUs

130 trains per day

526 employees

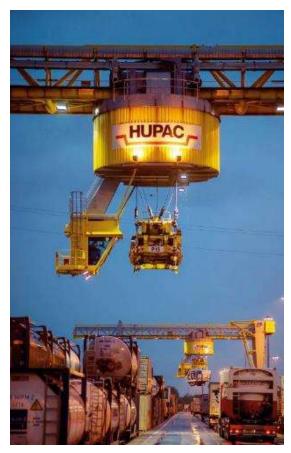
6,900 rail platforms

100% low-noise wagon fleet

CHF 580 million turnover

EUR 500 million turnover







A good development of logistics is high important for all countries

Becoming, modern, efficient, productive, fast, reliable.

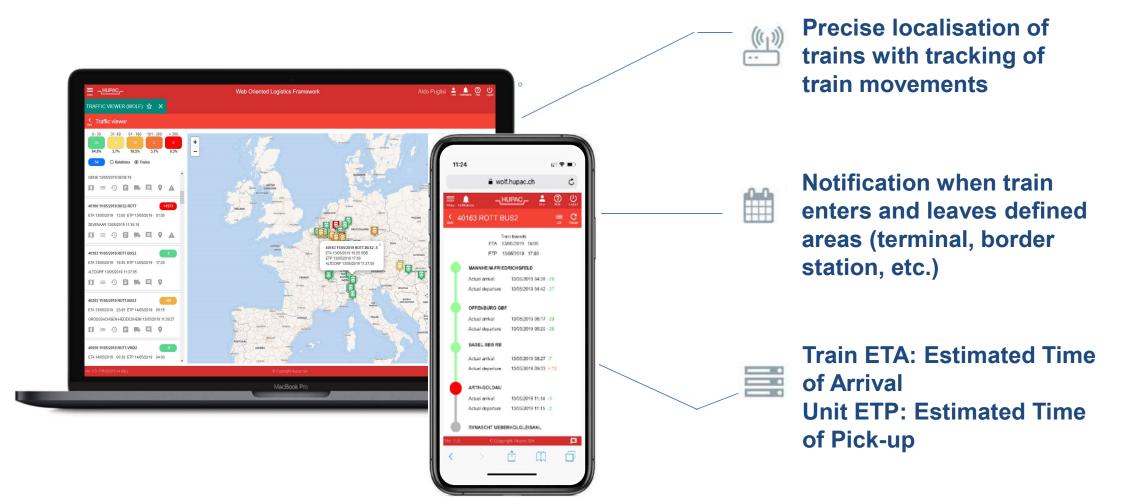




- > Competitiveness and Innovations
- > Digitalization
- Productivity Locomotive running free in the rail network as trucks are going on the road

Digitalization







Competitiveness of road and alternative modalities

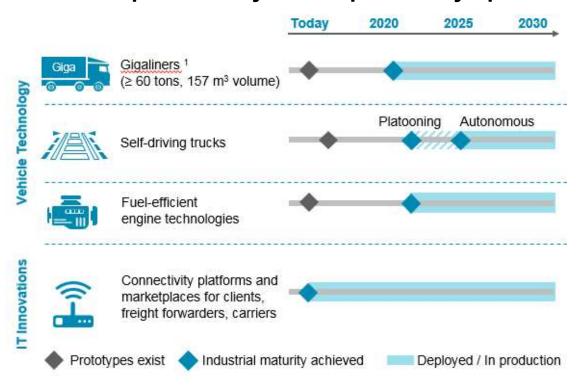
77

Production costs

Low fuel prices: impact minus 5-7%

Innovations

Enormous productivity boost: potentially up to minus 25%





Increase of the productivity of Multimodal transport

Infrastructure

→ Longer and heavier trains: in addition harmonisation in Europe as well as between 1435 EU, 1520 and in China

Simplification of communication among the railways in the Eurasian platform

- → Telegraph......among all the railways.....solutions to overtake this system
- → Customs clearance operations: please just one language and one form.

Cost of empty positioning

→ A reduction of costs for empty container and empty wagon positioning

Harmonization of rules

→ Harmonization among all railway networks

BIG DREAM

→ Even Russian RZD locomotive running in Europe



Combined transport – future-oriented system

EU target: transportation > 300 km on rail or ship; 2030 = 30%, 2050 = 50%

Transiberian route Target: 2 Mio. Teus in transit within 2025

Standardized system Advantages for all > Hundreds of thousands of standard loading > 5.9 billion EUR turnover units (containers, swap bodies, semi-trailers) > 41,000 jobs 700 terminals and ports > 18.1 million tons CO₂ reduction 60,000 rail platform > 2.2 billion EUR less external costs 2,000 cargo locomotives Long-term system commitment

Source: UIC Report on Combined Transport 2014



Transportation of tank containers on the silk road



2 x 7.82m-tanks
Transportation of low-density
chemicals



2 x 20' ISO-tank and wide body tank

- → Finding a solution that offers stability and possibility to carry out this type of transportation in a reliable way.
- → Potential of at least 2 Mio. Teus/year = about 24'000 block trains a year! that, without a clear policy, of respect of the existing international agreement cannot be transported by rail.



Problems by transporting tank container by rail to/from China

- → Majority of terminal in China reject any tank container
- → China rail pretend next to the international standard of the MSDS papers a further NON DG Certificate issued ONLY by 1 authorized and recognized laboratory by China Rail
- → China Rail refers to the ISO Universal serie 1 for the Tank container and therefore the ones with more than 30480kg max weight always subjected to acceptance special registration and specific solutions it may take months to get it
- → Dangerous cargo, completely rejected. In 2010 we transported 2 tank loaded with class 3 cargo after 3 years of "fight" for obtaining a special permission.

9



Achievements

- → We transported some block trains of tank container loaded with NON DG cargo from China to Germany and Belgium
- → We transported group of tank loaded with NON DG chemical liquids between China and Russia
- → We organized a solution for transporting DG CARGO via the Transiberian line and the port of Vladivostok and Vostochny with short ship to China.
- > RESULT

We have several solutions, but NOT yet a standardized one, due to the previous spots.

10



Solutions

All stakeholders from the market shall cooperate to push Chinese Railways and Railway Ministry

To follow the standard of the international agreements that they accepted:

- 1. Acceptance all the ISO CERTIFICATE OF TANK and any tank certified.
- 2. Opening of all terminal for transportation of tank for Domestic and International connections
- 3. Accepting the mixed loaded of box and tank container in the international block trains
- 4. Recognized the international MSDS paperwork
- 5. Finally authorize the transport of DG Cargo accoring to SMGS General Terms and RID.

WE NEED TO BE TOGETHER -

ANY LEVEL OF THE LOGISTICS SUPPLY CHAIN INCLUDING CARGO SHIPPERS AND OWNER WE NEED TO WORK TOGETHER

THE ONLY WAY FOR A STANDARDIZATION OF THIS TRANSPORT TECHNOLOGY.

11



Thank you for your attention!

