

SMART SRAIL

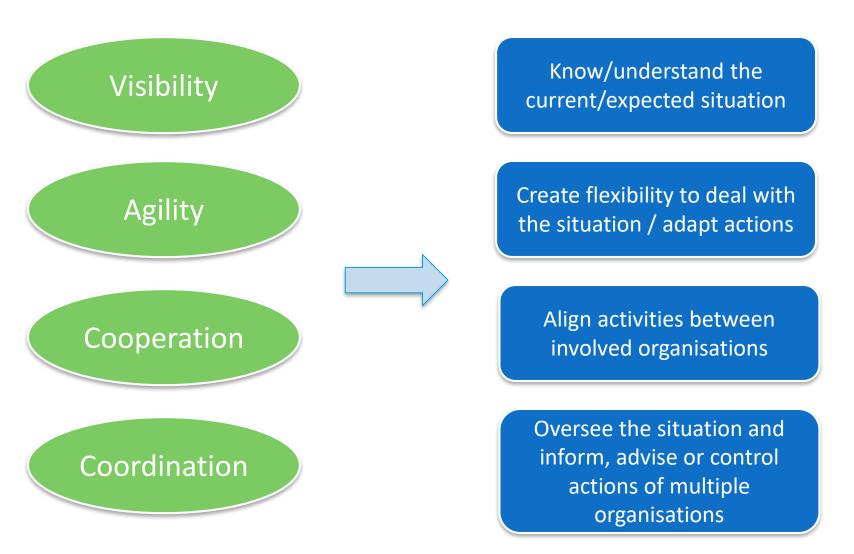
Smart Supply Chain Oriented Rail Freight Services

Horizon 2020 – European Commission

Making rail more attractive to existing and new freight customers

*Thijs Smit-TNO*Vienna, 18th of April 2018

Requirements for improvement of reliability in rail freight transport





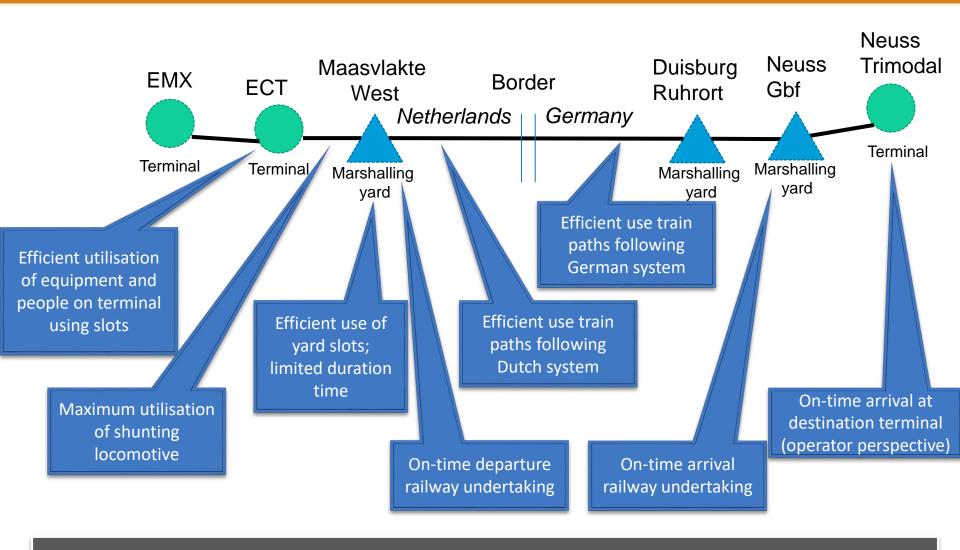
SmartRail: testing ground for realising impact

Three initiatives were conducted:

- Intermodal transport on the corridor Rotterdam Neuss (visibility, cooridation and agility)
- Port Study | Aligning activities in Ports (agility, cooperation and coordination)
- 3. Large planned and unplanned disruptions in the rail chain (visibility, agility, cooperation and coordination)

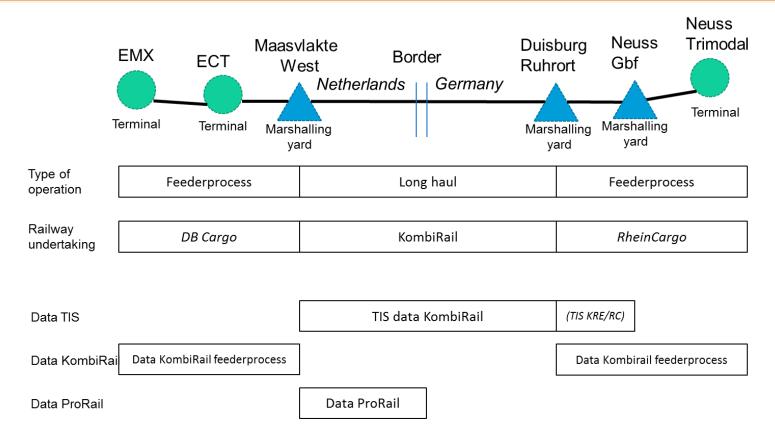


1: Intermodal transport on the corridor Rotterdam – Neuss | Different interests and little coordination



Many differerent stakeholders involved (RU's, operator, IM's, Terminals)

1: Intermodal transport on the corridor Rotterdam – Neuss | No end-to-end visibility of the train service



Fragmentation of data



1: Intermodal transport on the corridor Rotterdam – Neuss | Improvement measures

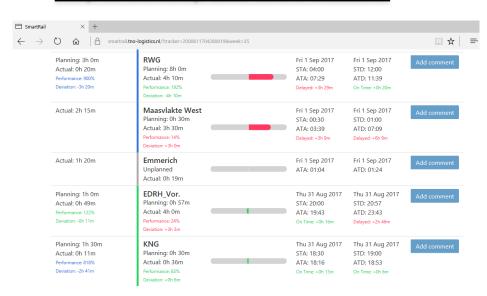
Step 1: use GPS trackers



IMPACT:

- 1. End-to-end visibility
- Improvement of data quality (real time)
- 3. No dependency of stakeholders

Step 2: develop and use a webtool

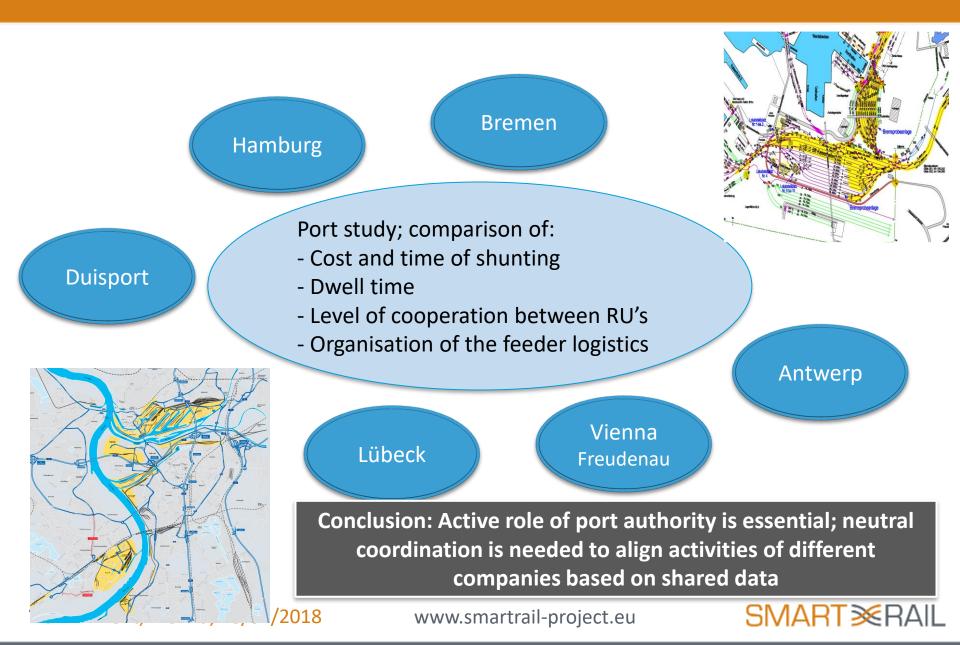


IMPACT:

- 1. Ability to register cause of disruptions to identify improvements
- 2. Stimulating problem solving thinking



2: Port Study | Aligning activities in Ports



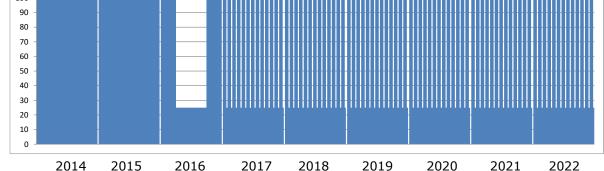
3: Large planned and unplanned disruptions in the rail chain | Third Track

Main conclusions:

Agility **V**

Due to dedicated attention of several stakeholders, punctuality during this period was very high

Visibility **V**



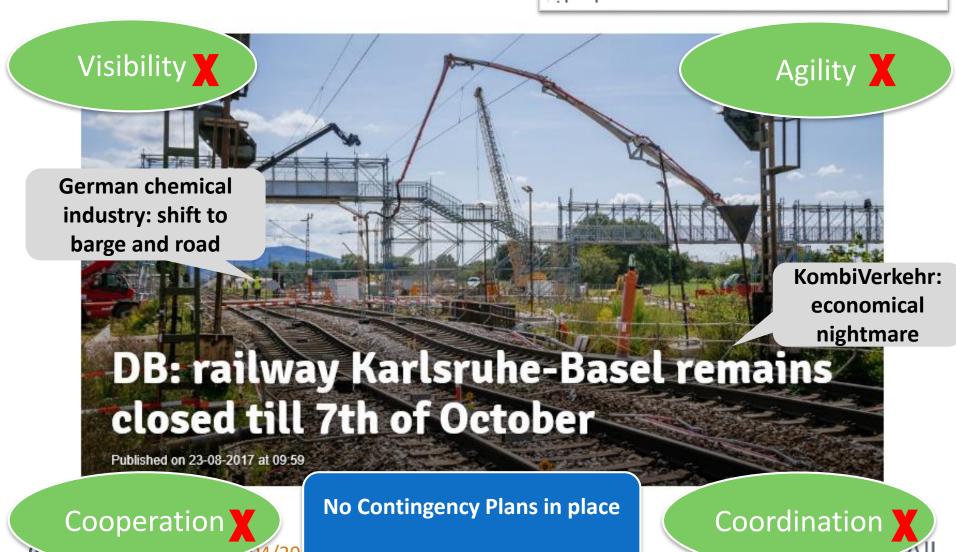
- Key factors for success:
 - the shared urgency amongst government and private companies
 - the active role of the Ministry of Infrastructure and Environment, ProRail, Port Authority Amsterdam and Port Authority Rotterdam,
 - the project organisation with a steering group and a working group together with government and private companies





3: Large planned and unplanned disruptions in the rail chain | Rastatt

Rastatt was a disaster for rail freight.



Making rail freight more attractive | Conclusions and recommendations

Stimulate mental shift: thinking in possibilities by preparing and using alternatives in cooperation with other stakeholders

Essential requirement for agility, cooperation

Stimulate coordination: alignment of activities over a larger number of stakeholders

Essential requirement to deal with the fragmentation in the rail freight market

Stimulate creation of visibility in the chain including data analytics and predictive analytics

Essential requirement for agility, cooperation and coordination and finally for improvement of reliability





SMARTSERAIL

























