

# The Role of Railways in the 21<sup>st</sup> Century

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## Setting the Scene

- Transport of people and goods is essential for society and economy




- The transport sector is faced with enormous challenges: climate change, NO<sub>x</sub>, fine dust, congestion ...
- Rail can become *the mode* of transport of the 21st century – if it provides a convincing offer
- There is strong need of Business Orientation and Data Sharing

## The Current Perception of Rail



**Expensive**  
**Long lead times**



**Inflexible – slow  
to respond to  
change and new  
demands**



**National – cross-  
border remains a  
challenge**



**Lack of  
customer  
focus**



**Difficult integration  
as part of a  
transport chain  
(multimodality)**



**Issues with  
reliability**

# Rail Border Crossings in Europe

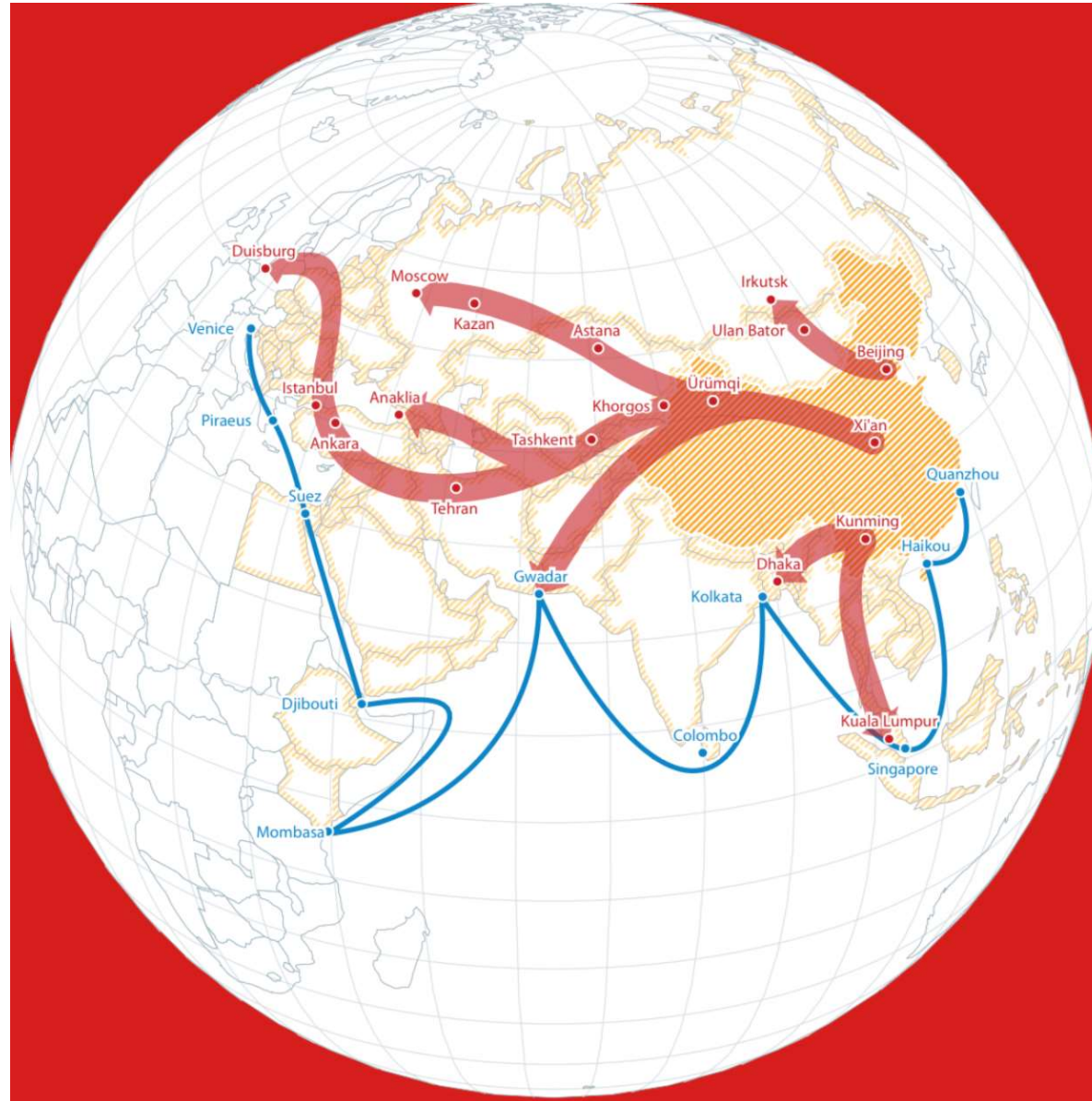


Rail is the only  
transport mode  
without global  
rules.

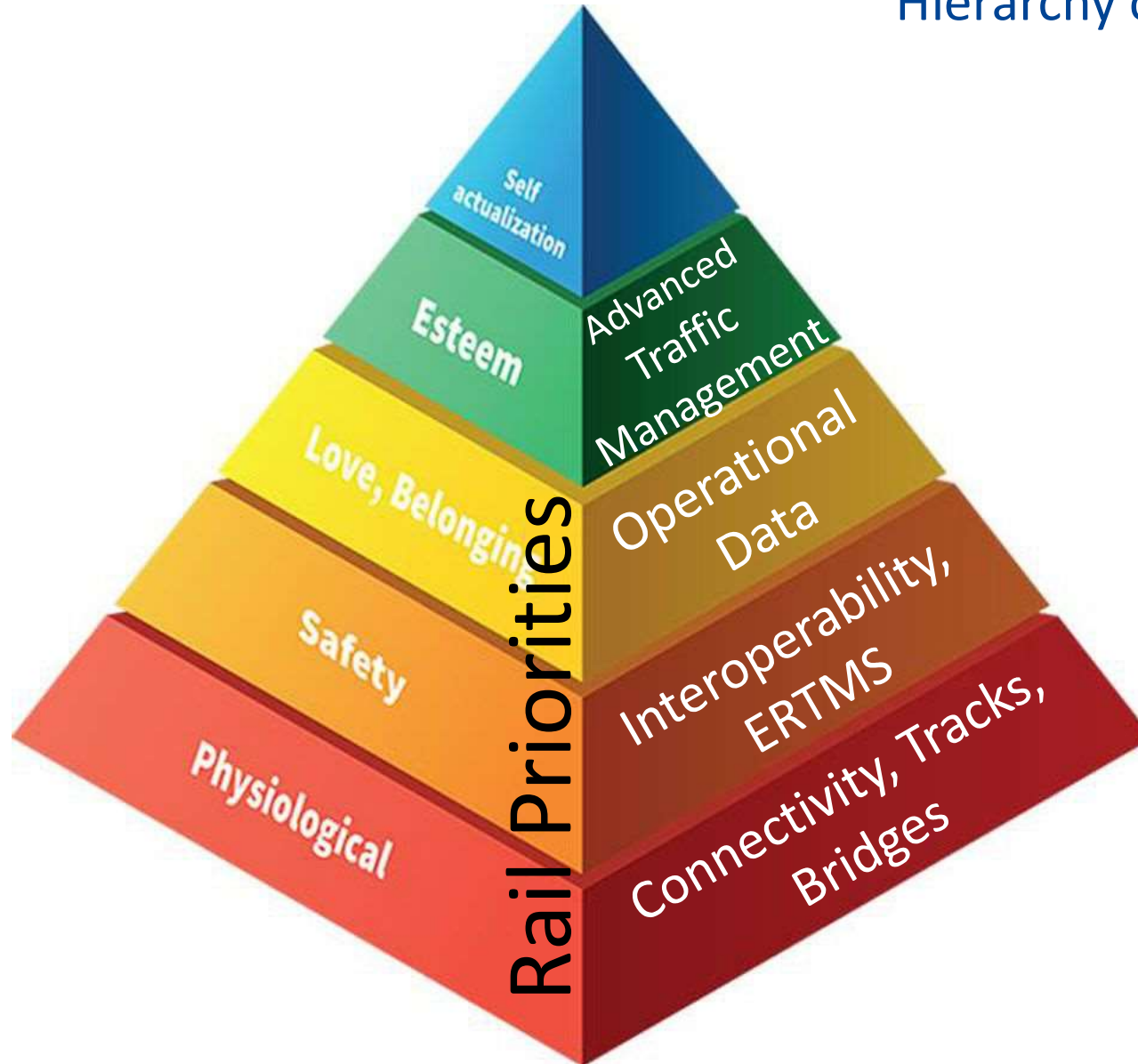
- Operational link: regular passenger services
- Operational link: only freight or touristic services
- Non-operational (historic) link
- Redundant historic link for public rail transport
- ▲ Proposed or projected new infrastructure link

Source: European Commission, Comprehensive analysis of the existing cross-border rail transport connections and missing links on the internal EU borders, Final report, March 2018

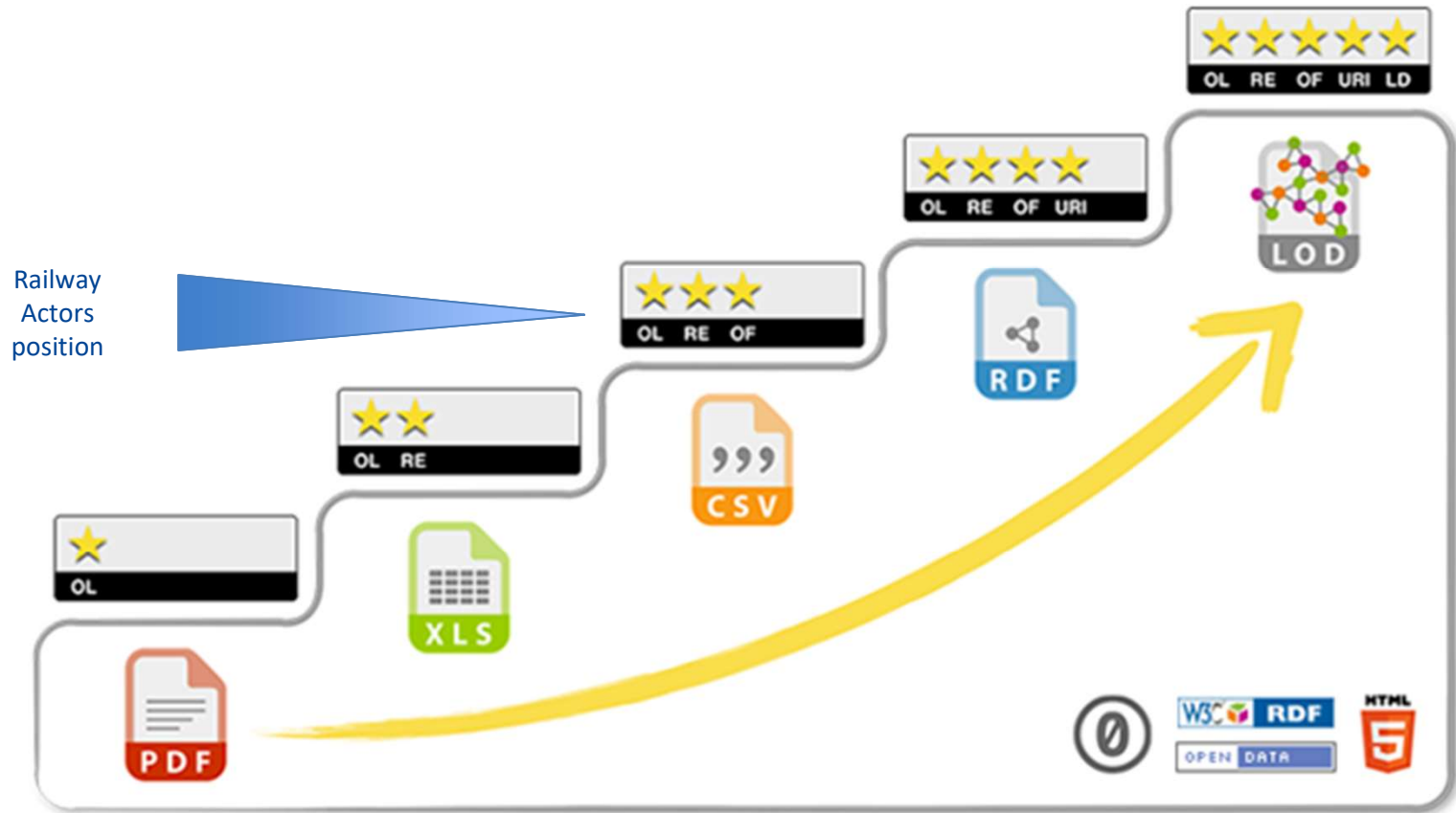
## Rail Freight – the Main Direction of Travel



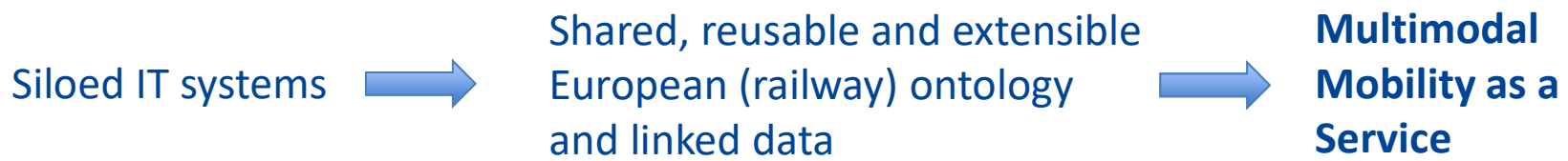
## Hierarchy of Needs



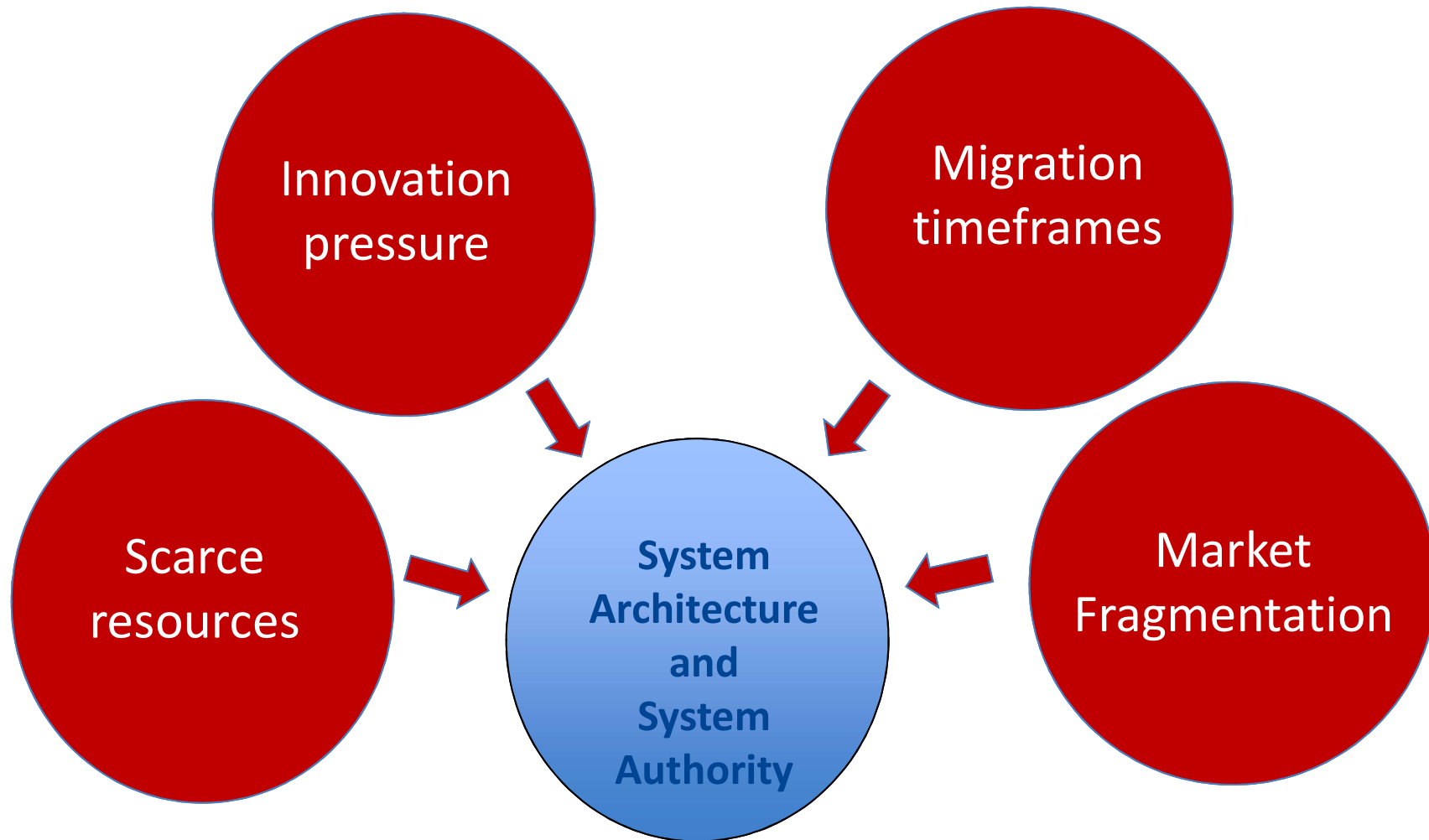
# Innovation in Data Exchange – Linked Open Data



Source: Study on the opportunities to evolve TAF TSI to exploit synergies with e-enhanced multimodal



## Evolution of the Railway System



Proactive information sharing and coordination are needed





Making the railway system work better for society.

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