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Co-modality: Now and Tomorrow



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Modal shift evolution



>Intermodal?

>using multiple modes of transportation (rail, ship, and truck), without any handling of the freight itself when changing modes

>Multimodal?

➤a transport operation that is carried out using different modes of transport and organised by a single operator

≻Co-modal?

>use of different modes separately and in combination in the aim to obtain an optimal and sustainable utilisation of resources

Context



≻European Transport Vision¹:

- ➤ 30% of road freight over 300 km should shift to other modes such as rail or waterborne transport by 2030, and more than 50% by 2050
- ➤ More efficient transportation (co-modality)
- ➤ A reduction of at least **60%** of Green House Gas (GHGs) by 2050
- > Development of green corridors

Economic

- > "I don't mind to be green but what's in for me?"
- > ... And how much will it **cost**?
- ➤ Globalisation moves on and traffic growth
- ➤ How to deal with **oil price fluctuation**? What will be my **business model**?

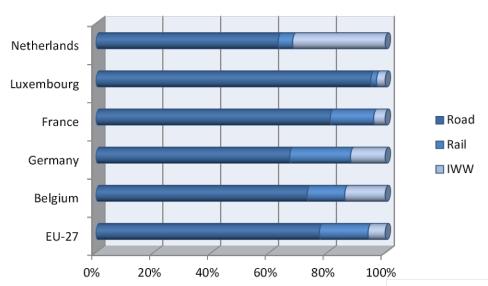
Environmental

- Taxes and norms/standards constraints
- > Quotas

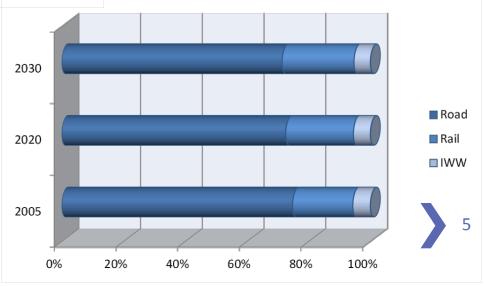


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ADDING VALUE IS THE KEY



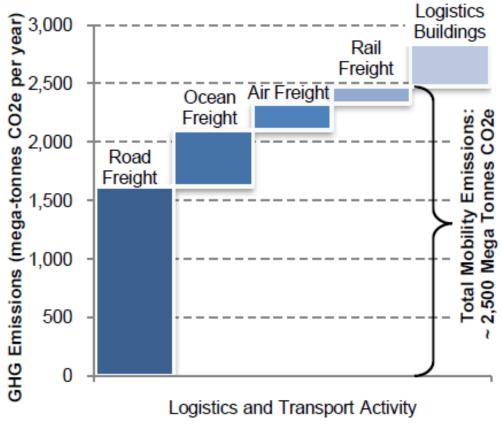
Eurostat, % freight Tkm in 2009



Traffic Forecast EU-27 (% freight Tkm), TENConnect (DG-TREN), 2009

Environmental impact





World Economic Forum, Supply Chain Decarbonisation, 2009

- Human activity: GHG 50 million Tons CO2 e/year
- ➤ Logistics and transport sector: 5.5%



Challenges



- How to match new business models considering constraints?
- Infrastructure: energy, networks, interconnections...
- Transportation equipment: handling systems, loading units...
- IT systems: trace & tracking, interoperability, collaborative platforms...
- Legal framework: labour conventions, administrative bottleneck, harmonisation...

Infrastructure - Road





Infrastructure - Nodes









Freight wagon with a swingable pocket

(Kockums Industrier, SE)

Automated and parallel transshipment process (CargoBeamer, DE)



Transportation equipment





Low-floor articulated railway Wagon (Modalohr, FR)

Crane system

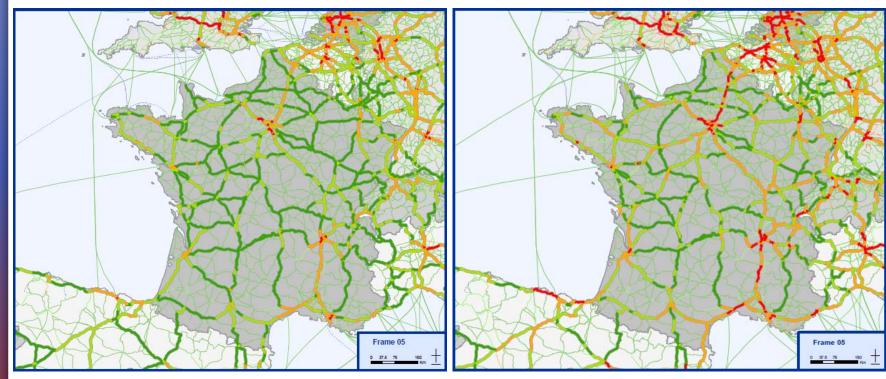


Road traffic load forecast





2030



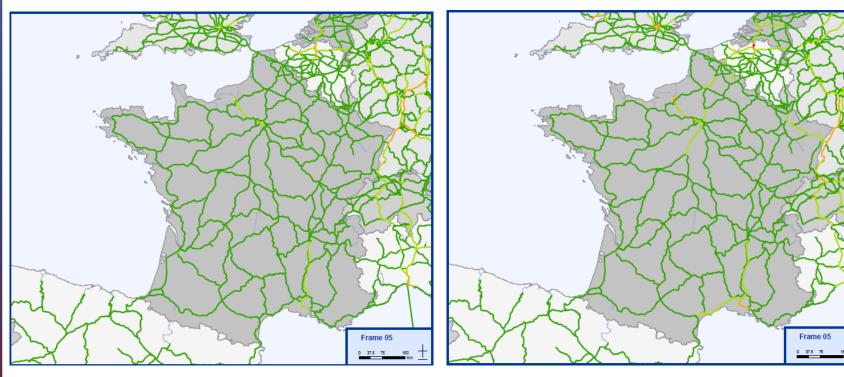
TENConnect (DG-TREN), 2009

Rail traffic load forecast



Baseline-2005

2030



TENConnect (DG-TREN), 2009

Conclusion



- Co-modality is not a cure-all, it has to be tough according to the situation: distance, tonnage, % loading, routes...
- Improve efficiency of each transportation mode within the Supply Chain (e.g. 24% of trucks in the EU are running empty¹)
- ➤ A better integration of each transportation mode to reach sustainability and efficiency
- EuroHub Sud towards a Freight Village
- Political commitment to support private stakeholders
- EU's Marco Polo funding programme







Weastflows (West and East freight flows) - an INTERREG IVB North West Europe (NWE) project funded by the European Regional Development Fund (ERDF) – aims to improve and enhance freight logistics across a West-East axis in the NWE region.



Infrastructure



Sustainable multi-modal ICT and telematics logistics





Sharing knowledge











