

Challenges of the 21st century for the railway business environment



Content

- **1. About Club Feroviar**
- **2. Global trends in manufacturing and trade**
- 3. The social and economic costs of transport
- 4. The place of railways on public agenda
- **5. Conclusions**



1. About CLUB FEROVIAR

Railway and multimodal transport business consultancy services Railway Business Club networking business-matchmaking

Institutional & governmental Lobby

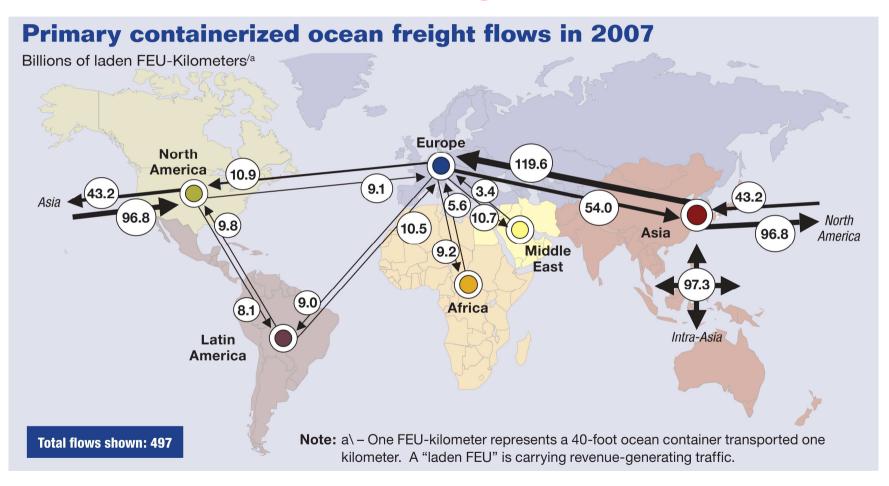
cross-media communication

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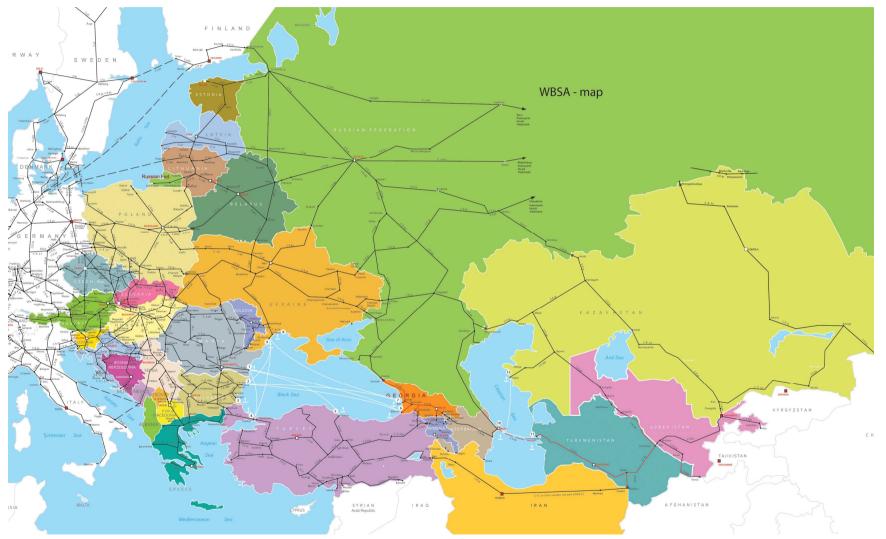






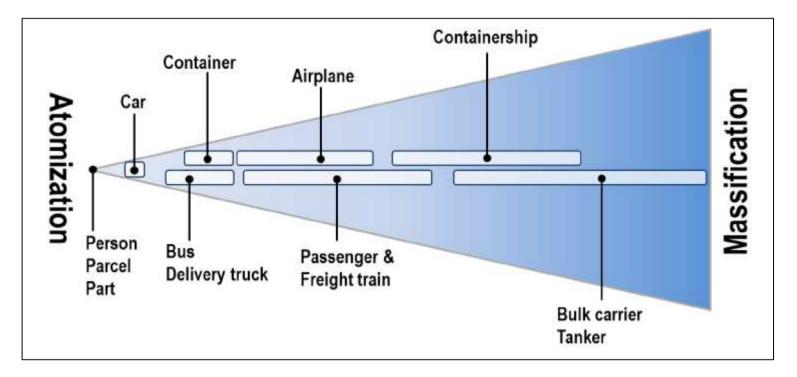
Source: MergeGlobal Value Creation Initiative, *Insomnia. Why challenges facing the world container shipping industry make for more nightmares than it should*, American Shipper, 2008





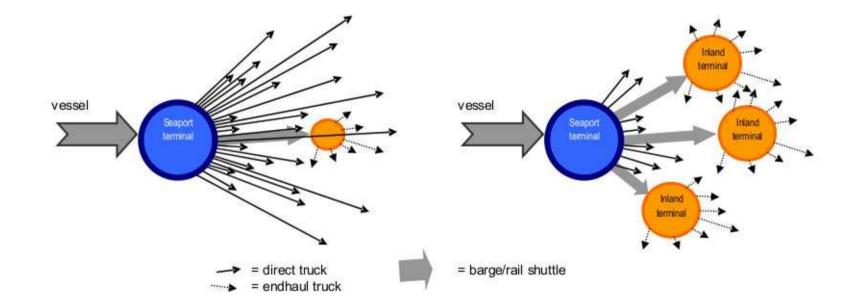
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Source: Rodrigue, J-P *et al.* (2009), *The Geography of Transport Systems*, Hofstra University, Department of Global Studies & Geography, http://people.hofstra.edu/geotrans.





Source: Prof. dr. Theo Notteboom, *The Future of Rail Freight in Europe*, Rail Freight Conference, Anwerp, February 2010

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CROSS-BORDER FREIGHT TRANSPORT IN THE AUSTRIAN DANUBE CORRIDOR 2010

FREIGHT TRANSPORT IN 1,000 TONS/YEAR 7% 23% 30% 63% 53% EASTERN BORDER 24% 12 360 1 10 235 1 7 762 31% 62% 63 28% 11% 62%

Total: 75,359 (+15.9% over 2009) 14.1% Rcad Rall Danube 30.2% 55.7%

Western border

Danube: Passau Road-Suben, Neuhaus, Simbach Passau Rall:



Klingenbach, Deutschkreutz Marchegg, Kittsee, Hegyeshalom, Sopron, Deutschkreutz

Eastern border

Danube: Hainburg

Rall:

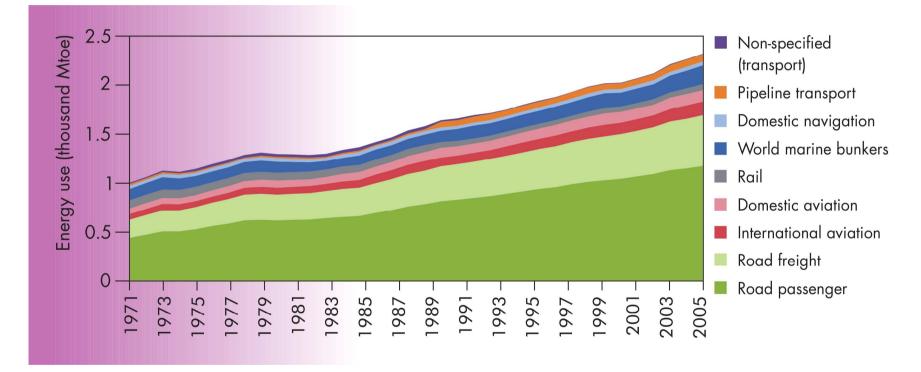
Source:

http://www.donauschifffahrt.info/en/fa cts_figures/statistics/corridor_analysi s/modal_split/

Source: Austrian institute for Regional Studies and Spatial Planning (ÖIR); chart created by via donau

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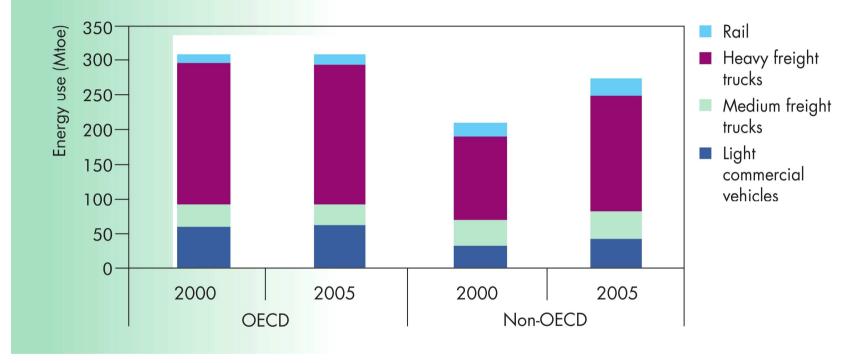




World transport use of energy by mode. 1971-2005

Source: Transport, energy and CO2. Moving toward Sustainability, IEA/OECD, 2009





Energy use by freight category. 2005

Source: Transport, energy and CO2. Moving toward Sustainability, IEA/OECD, 2009

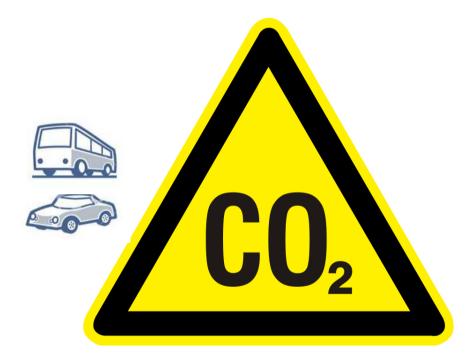




Transport generates around 1/4 of all EU CO2 emissions. During 1990 - 2005, EU-15 GHG emissions from domestic transport (within EU only) increased by 26%.

(Source: Rail Transport and Environment, Facts & Figures, CER, UIC)





Rail only accounts for **0.6%**

for diesel emissions and for less than 2% including emissions for electricity production.

More than **90%**

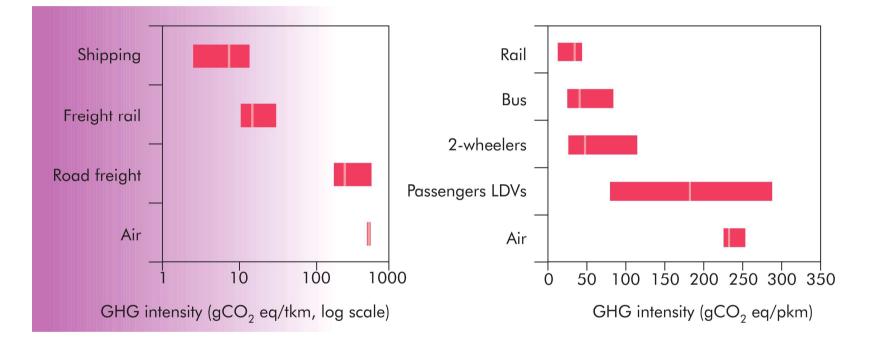
of total domestic transport emissions are due to road transport.



Ştefan Roşeanu, Club Feroviar

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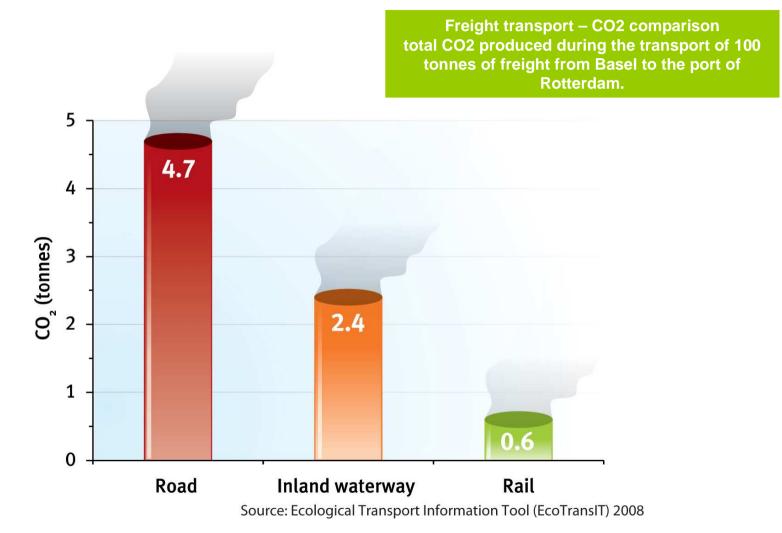


GHG efficiency of different modes, passenger and freight. 2005

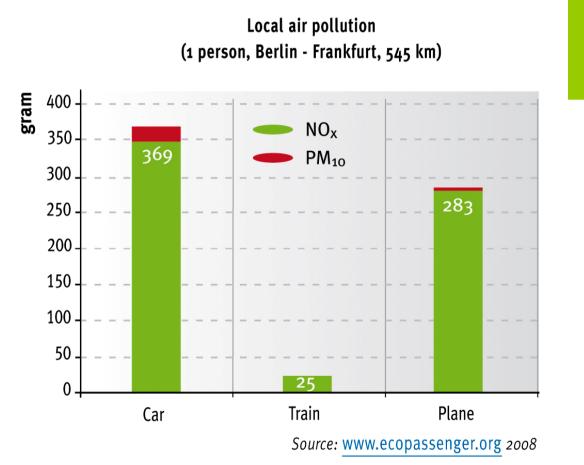
Source: Transport, energy and CO2. Moving toward Sustainability, IEA/OECD, 2009

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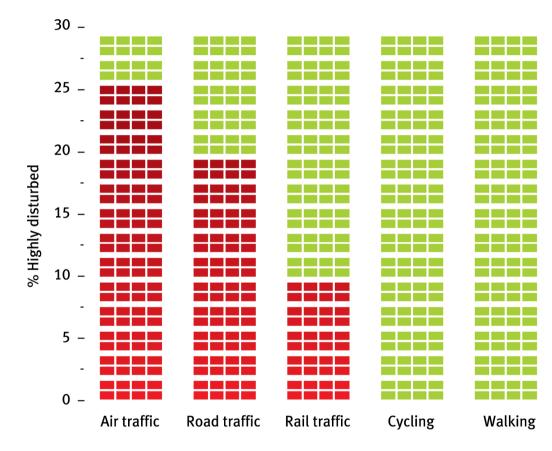




Local air pollution (1 person, Berlin -Frankfurt, 545 km)

Source: www.ecopassenger.org 2008





Percentage of citizens who are 'highly disturbed' when exposed to night-time noise emissions from transport

Noise is one of the key concerns

for people living near

transport infrastructure

The perceived noise

annoyance is much **higher**

for air and road

traffic than rail.

Source: European Commission 2004

(Source: Rail Transport and Environment, Facts & Figures,

CER, UIC)

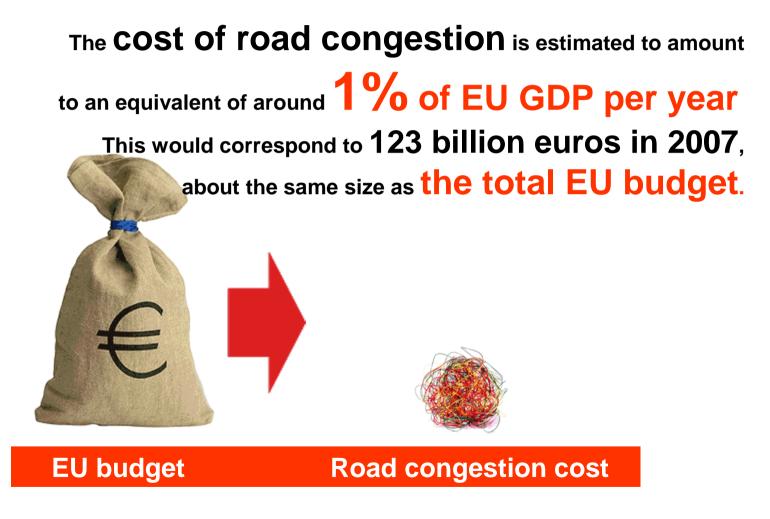


Total external costs in 2000 by mode in the EU-15 plus Switzerland and Norway



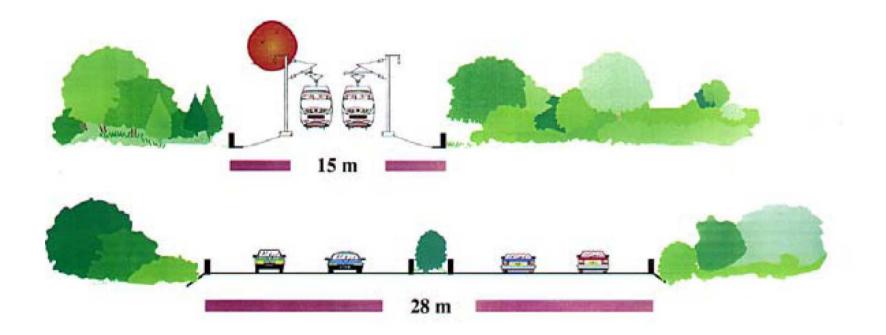
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Rail land requirements are **Smaller**

than highway requirements.

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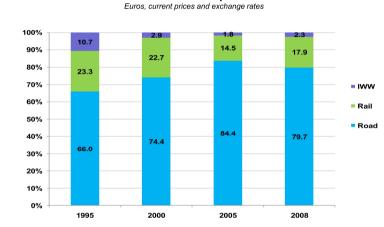


Mode	Fuel Consumtion	Infrastructure Capacity	Cost (to users)	Safety
Railways	0,51 litres per 100 ton-km	216 million annual tons per mainline	1.68 USD cents per ton-km	0.38 fatalities per billion ton-km; 7.75 incidents per billion ton-km
Roads	3,6 litres per 100 ton-km	37.8 million annual tons per lane	3.12 USD cents per ton-km	0.90 fatalities per billion ton-km; 22.5 injuries per billion ton-km

Source: Thomas R. Brown and Anthony B. Hatch, *The Value of Rail Intermodal to the US Economy*, September 2002, http://www.aar.org/pubcommon/documents/govt/brown.pdf

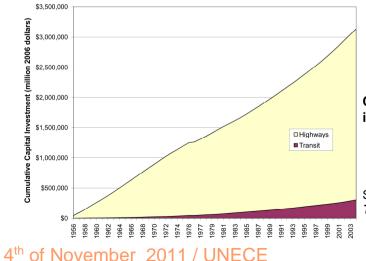


4. The place of railways on public agenda

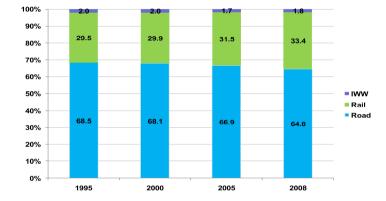


Transport Infrastructure Investment Modal Split

Central and Eastern European Countries



Transport Infrastructure Investment Modal Split Western European Countries Euros, current prices and exchange rates



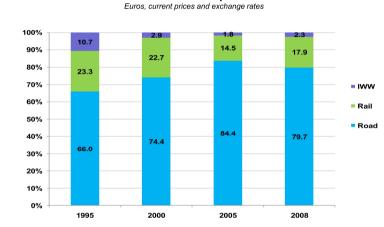
Source:ITF Investment in Transport Infrastructure, http://www.internationaltransportforum.org/statistics/GlobalTrends/Investment.pdf

Cumulative US Government Capital Investment in Tranzit and Highway since 1956 (2006 USD)

Source:Phineas Baxandall et al., *A Better Way to Go. Meeting America's 21st Century Transportation Challenges with Modern Public Tranzit*, Calpring Education Fund, 2006

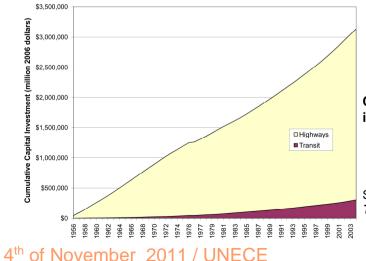


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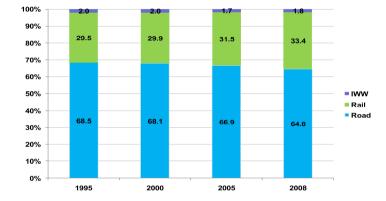


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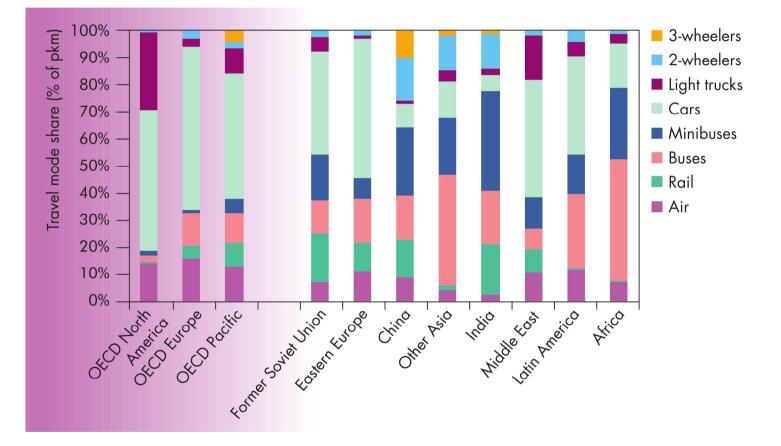
3 000 All trucks Freight activity (billion tkm) Rail 2 500 2 000 500 000 500 SCO America Structure Soviet Union Funde China Asia India Fast America Atrica Atrica China China Atrica Atr 0

4. The place of railways on public agenda

Freight transport by truck and rail. 2005

Source: Transport, energy and CO2. Moving toward Sustainability, IEA/OECD, 2009





4. The place of railways on public agenda

Motorised passenger travel split by mode. 2005

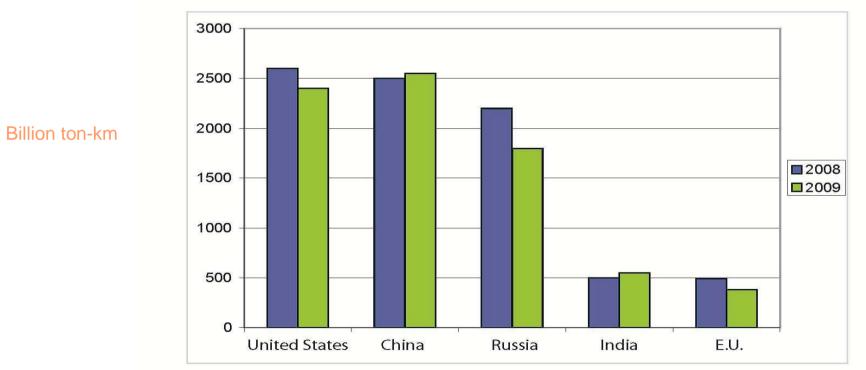
Source: Transport, energy and CO2. Moving toward Sustainability, IEA/OECD, 2009

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4. The place of railways on public agenda

Rail freight 2008& 2009 (billion tone- km)



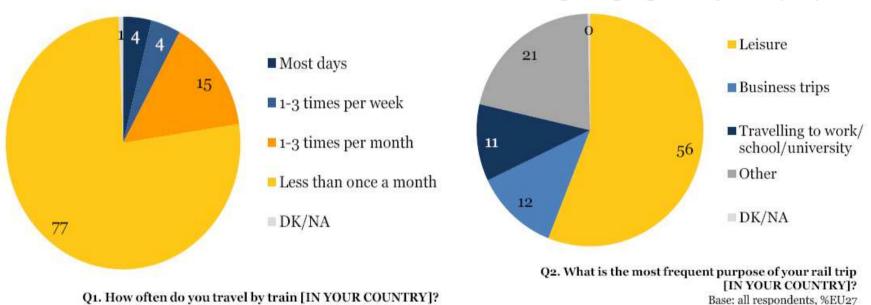
Sursa: International Transport Forum, Trends in the Transport Sector 1970-2009, 2011

Iunie 7, 2011 / ARILOG ed. 9



Most frequent purpose of journeys by rail

4. The place of railways on public agenda



Frequency of journeys by rail

Q1. How often do you travel by train [IN YOUR COUNTRY]? Base: all respondents, %EU27



5. Conclusions

- 1. railway transport is a strong ally in implementing climate-oriented policies
- 2. last decades were the witness of a low interest in investing in rail infrastructures despite the above mentioned advantages
- 3. strong policies towards supporting consolidation facilities can boost railway attractiveness
- 4. soft infrastructure (cross acceptance, border checking facilities, taxation etc.) is mandatory in connecting large transport areas
- 5. evaluation of the whole image is important in comparing investments in railway infrastructures to the others
- 6. customer oriented strategy
- 7. MODAL SHIFT IS A MENTAL SHIFT!



5. Conclusions

The railroads did not stop growing because the need for passenger and freight transportation declined. That grew. The railroads are in trouble today because the need was filled by others (cars, trucks, airplanes, even telephones) but because it was not filled by the railroads themselves. They let others take customers away from them because they assumed themselves to be in the railroad business rather than in the transportation business. The reason they defined their industry incorrectly was that they were railroad-oriented instead of transportation-oriented, they were product-oriented instead od customer-oriented.

Theodore Levitt, Marketing Myopia, Harvard Business Review, 38 July-Aug 1960



Thank you for attention!

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