ENVIRONMENTAL POLICY RAIL TRANSPORT NL

Henk Brouwer

dep director Local Environmental Quality & Transport





Climate change

- direct / indirect

- Air Pollution (No_x, PM₁₀)
- External safety

- direct / indirect
- hazardous substances

Noise







- 3200 km
- > 1 million passengers / day
- 80.000 tons freight / day
- > 70 dB(A) dwellings : barriers € 500 mln
- Noise Innovation Programme Ministries Transport and Environment (2002 – 2007)
- € 110 mln (70 road, 40 rail)



- Focus on costefficiency, away from barriers
- Grinding: 2 dB
- Rail dampers (development) pilots: 3 dB
- Silent trains braking systems existing fleet
- pilots K-blocks: 7-9 dB
 pilots LL-blocks: 7







- For new vehicles: emission limits TSI Interoperability directive
- For existing fleet: several big study projects by UIC, EU CION, e.g. STAIRRS
- Outcome: tackle existing fleet / freight wagons
- Problem: Who pays? Still existing: see state of the art leaflet of CER and UIC, July 2006
- Directive 2001 / 14 (Management of rail infrastructure): provisions on acces charges



Adapting braking systems (retrofit)

 By far most costefficient measure for society as a whole, factor 10 – 20 cf bariers
 And: silent trains have effect everywhere

- Costs and benefits for different stakeholders
- How to make it happen
 - banning noisy trains (certain routes, evening / night)
 - financial incentives







- Government Subsidies: EU state aid regime and discrimination problem
- Differentiated access charges: bonus / malus
 - Allowed bij article 7, sections 4 and 5, of Directive 2001 / 14
 - To be announced in annual Rail use agreement
 - Pre-announcement in NL in 2006





- In Europe 600.000 800.000 freight wagons?
- Really in use? And mileage / year ?
- NL study (Prorail): 20% wagons used in NL, 80% of kilometers
- Do not underestimate number of noisy passenger trains and kilometers!



- K-blocks: € 4000 per wagon
- LL-blocks € 0 < 1000 per wagon
- NL goes for LL-blocks
 - tests in NL (and Switzerland?)
 - admission by UIC in 2007
- Total investment cost for Dutch fleet: max € 30 mln
- Cf costs of barriers: € 500 mln





Present thoughts NL:

- bonus per wagon kilometer (from 01-01-2008?)
 - 2 5 ct passenger coach
 - 1 2 ct freight wagon
 - expected return on investment: 1 3 years
- malus from (01-01-2011?)
 - (pre-) financed by Transport Ministry through Prorail





- Inframanager (Prorail) receives access charge
- Operators pay access charge
- Other parties, e.g. lease companies, involved through market

