



Gemeente Amsterdam

Master class Climate change and sea transport

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The Challenge

- Welcome
- Purpose Master Class
 - to raise awareness and to share knowledge
 - to seek input and ideas on the Amsterdam Declaration
- Programme Master Class
 - introduction in Globalisation and Sea transport and the World Ports Climate Initiative (WPCI)
 - presentations of the ports of Amsterdam and Rotterdam
 - brief comments of experts
 - discussion and conclusions



Growth and CO₂

Globalisation and transport

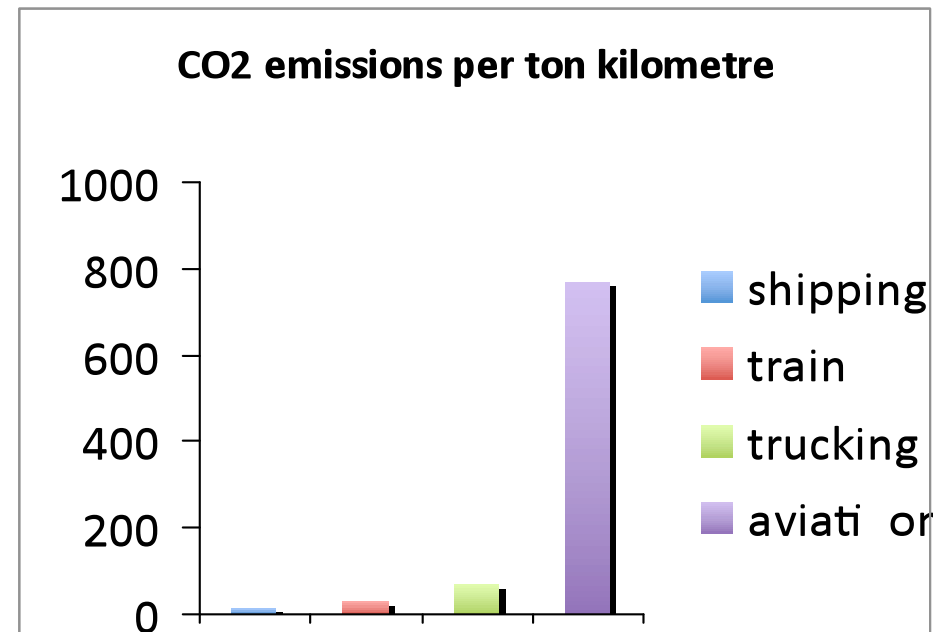
- Growth of global trade = growth of transport = growth of sea transport = growth of land transport
- Growth of transport = growth CO₂ emission
- Ports are the vital link between sea transport and land transport



CO₂ and modalities

- Some 90% of world trade in tonnes is carried by ship

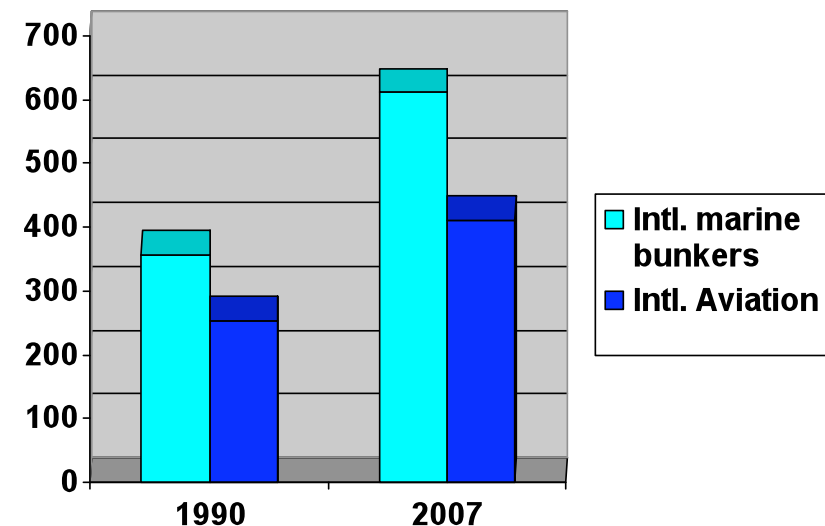
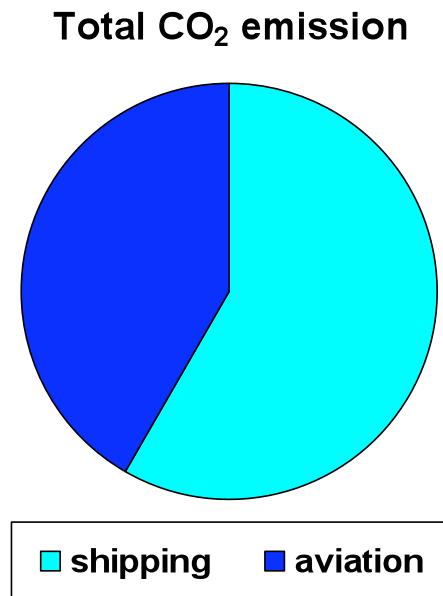
- Per ton kilometre, shipping is one of the lowest emitting freight transport options around





But:

- Taking into account the total number of ship movements, the carbon footprint is much bigger than aviation and is still growing fast





Role of ports

What can ports do? What role to play?

- Port authorities do not handle cargo, nor do they decide which modality for further hinterland transportation to use
- But ports are hubs in the international logistic chain and thus the vital link between sea transport and land transport
- Are ports doing enough to help reducing CO₂ emissions? Do they take their responsibility?



**World
Ports
Climate
Initiative**

World Ports Climate Initiative: started by ports

Mission

- Raise awareness in the international port community of need for action
- Initiate studies, strategies and actions to reduce CO₂ emissions and improve air quality
- Share information on climate change effects and provide a platform for the maritime port sector for the exchange of information



**World
Ports
Climate
Initiative**

Focus

- To set up concrete projects instead of concrete reduction goals that have to be agreed on
- Projects so far:
 - Carbon Foot printing and Modelling Tools (Port of Los Angeles)
 - On-shore Power Supply (Port of Gothenburg)
 - Cargo-handling Equipment (Port Authority of New York/New Jersey)
 - Lease Agreement Template (Montreal Port Authority)
 - Environmental Ship Index (Port of Rotterdam)
 - Intermodal Transport (Port of Amsterdam)

More information about WPCI: <http://www.wpci.nl>



Conclusions

Thus

- Globalisation causes more trade and transport
- Growth of sea transport and the following land transport has a severe impact on the growth of CO₂ emissions world wide
- Ports have to and will take the lead



To be discussed

- How can we uncouple growth and CO₂ emission in sea transport?
- Is it necessary to go back to local production to combat climate change?
- What parties are involved and what is their role?
- WPCI is a good initiative, but is it enough?