



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 CO<sub>2</sub>

### Globalisation and transport

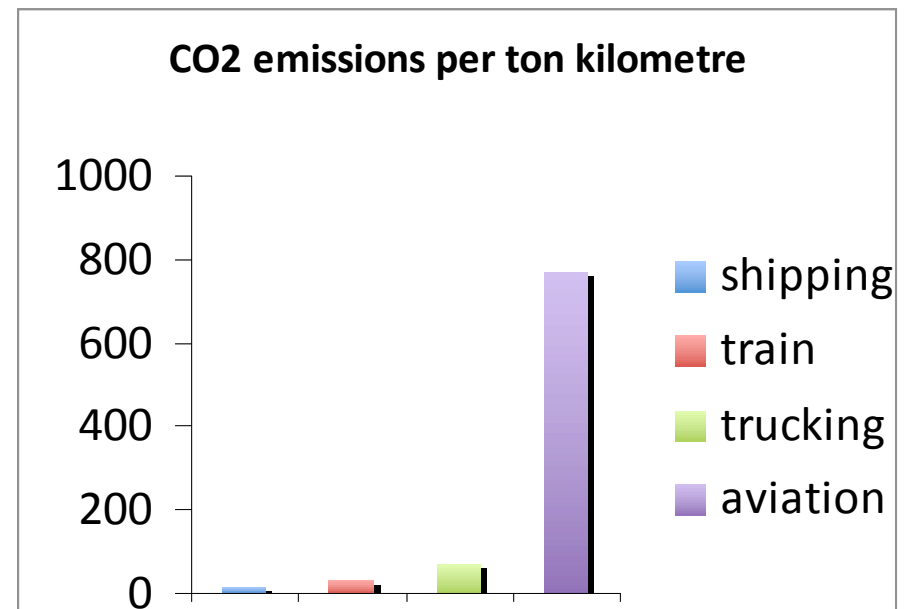
- ♣ Growth of global trade = growth of transport = growth of sea transport = growth of land transport
- ♣ Growth of transport = growth CO<sub>2</sub> emission
- ♣ Ports are the vital link between sea transport and land transport



## CO<sub>2</sub> 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

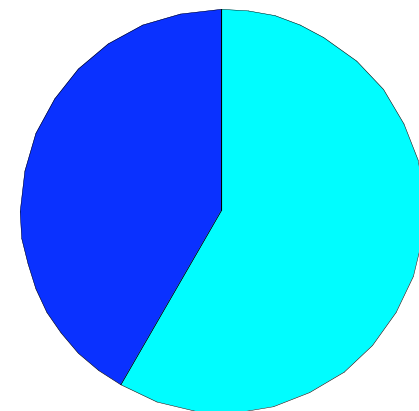




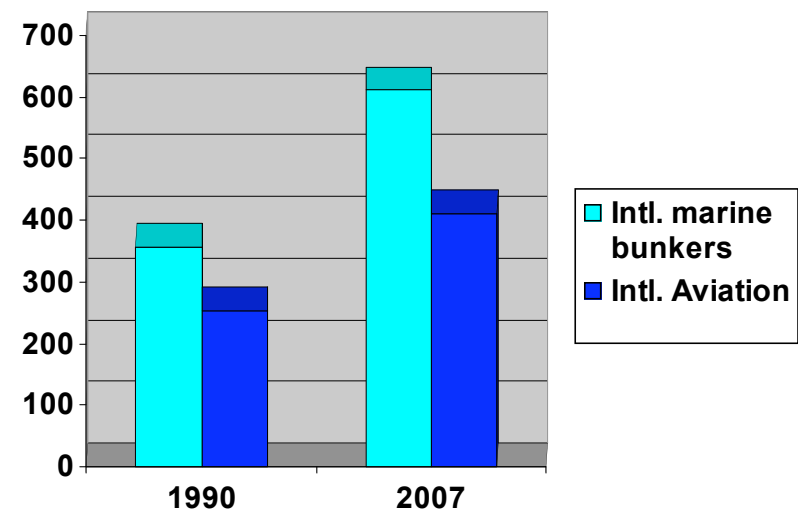
## But:

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

Total CO<sub>2</sub> emission



■ shipping ■ aviation





## 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 CO<sub>2</sub> 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 CO<sub>2</sub> 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 CO<sub>2</sub> emissions world wide
- ♣ Ports have to and will take the lead



## To be discussed

- ♣ How can we uncouple growth and CO<sub>2</sub> 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?