## PORT-NET Workshop Antwerp, June 2009

Antwerp's view on extended gateways: from 'mainport' to 'chainport'

Goedele Sannen Strategy and Development







# The Port of Antwerp today

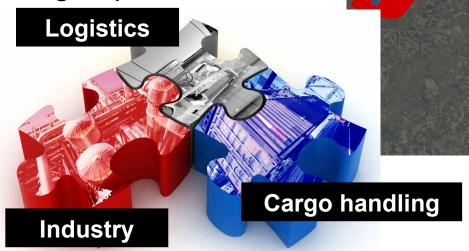
-Total area: 13,057 ha

-Quay length: 160 km

-Railway: 1,055 km

-Roads: 392 km

-Covered storage space: 530 ha

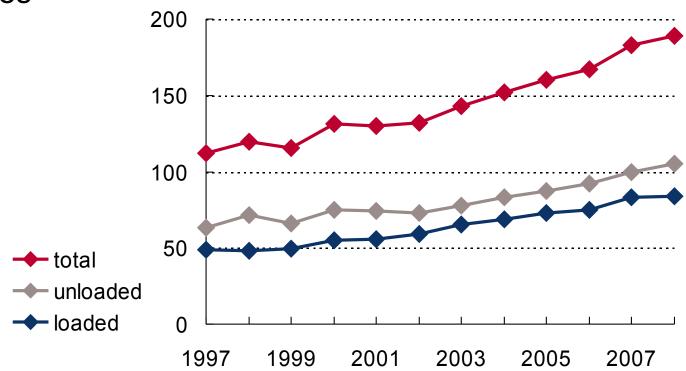


Port of Antwerp



# Maritime cargo transport 2008

190 million tonnes





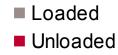
## Second largest European port

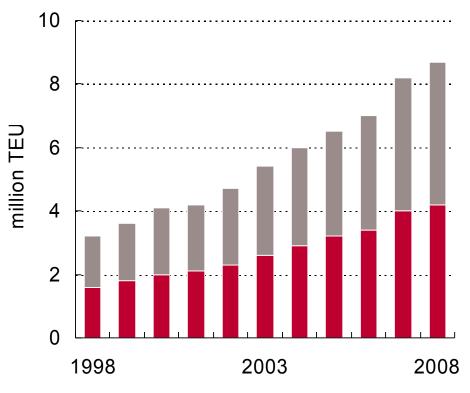




### **Containers**

- -Total volume: 8.7 million TEU
- –Average annual growth:9%
- -Exceptional growth in 2007: 14%



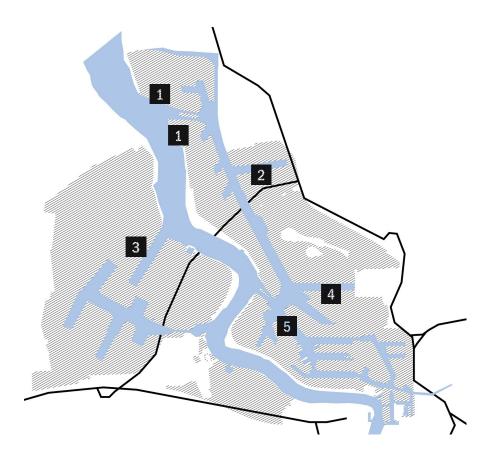




## Containers: terminals

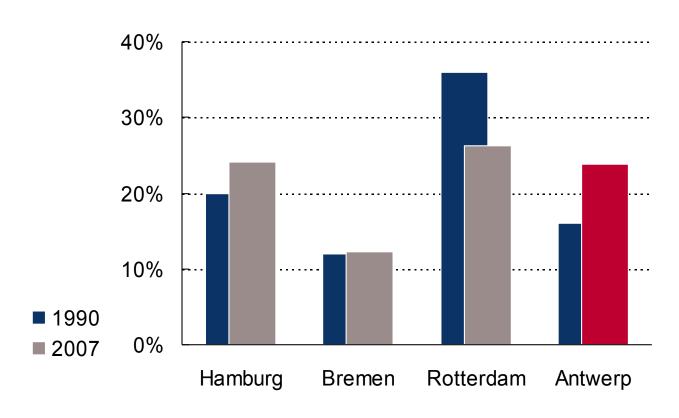
- North Sea and Europa terminal
- Delwaide dock MSC Terminal
- Deurganck dock
- Churchill dock
- 5 Hansa dock

Total capacity: 14 million TEU/year





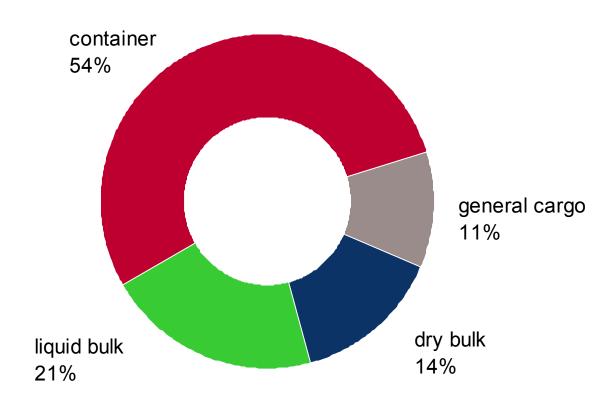
# **Containers: European market shares**



3rd port in Europe & fast growing



# Maritime cargo transport 2008



Expected container share of 69% in 2030



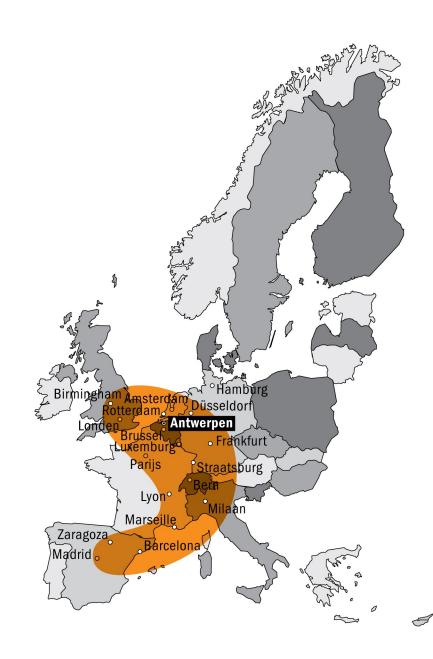


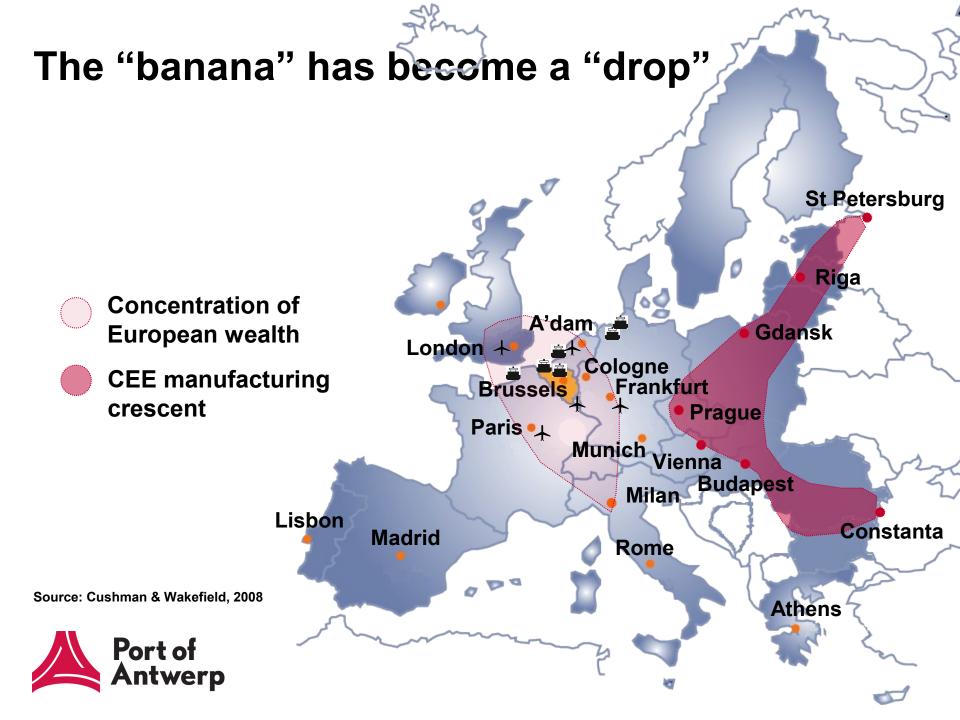
# Location in the heart of Europe

- Antwerp is located in the heart of Europe
- -The "banana" contains the main European centres of production and consumption
- -60% of the Europeanpurchasing power is within500 km from Antwerp

Source: Cushman & Wakefield, 2006







### Night shot of the European "banana"







### Ports live in a turbulent world



- -Logistics environment is changing
- -Port competition is changing
- -New role for port authorities
- -Building cooperative networks between ports and inland ports

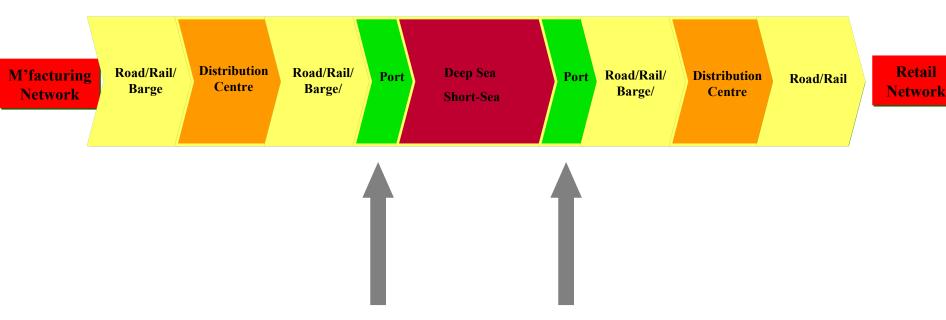


# The 'traditional' role of landlord port authorities

- Co-ordinate port development and manage basic infrastructure
- -Lease out port land to private terminal operators
- -Provide some additional services in the port
- -Promote the port
- -Deal with externalities, such as environment and safety
- –Revenue base = land dues/concession fees and port dues
- ⇒The port area is the central focus: performance of the port in a narrow sense



## New role for port authorities



Seaports need to reach into the chain in both directions 'Anchor' logistics actors with decision power Enhance integration of the port in broader networks

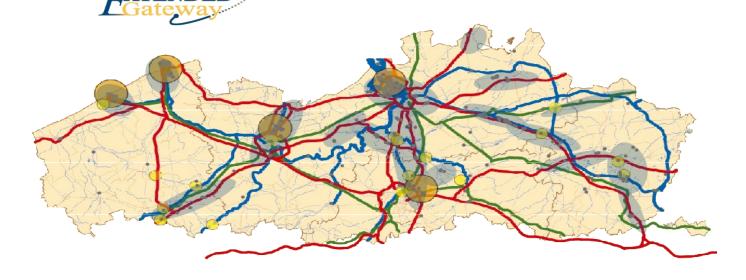


Source: Notteboom

Retail

### 'Extended gateway' concept

- Locate logistics activities at their most appropriate location (port or hinterland)
- Basic criterium: minimal total logistic cost
- Consider the hinterland as a multimodal network with gateways and transfer points
- Bundling and clustering of flows



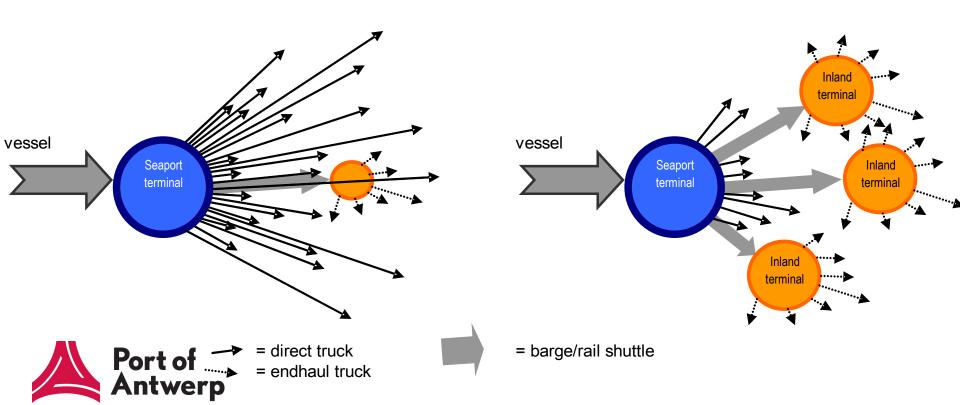






### **Network of terminals**

- International gateways are the junction of the network
- Creation of added value within the network
- Intermodal connectivity and collaboration amongst companies is of utmost importance
- Improved spatial planning, labour spread, mobility, sustainability...





## Antwerp strategy: intermodal and hinterland initiatives: goals

Core business

#### **Enlarging flows**

- Anchoring traffic (mainly in natural hinterland) ...
- ... and gaining (mainly in 'competitive' areas)
- Anchoring shipping lines/loops
- Creation of added value in logistics

## Optimizing chain efficiency

- Improving competitivity towards other ports (intermodal connectivity)
- Reducing costs
  - For users
  - For port
- Improved sustainability, spatial planning, mobility

## Enlarging perimeter of port

 Guarantee port activities (because: land in port is tight) / Offering alternative location



- Indirect traffic effect
- Positive branding effect



## Antwerp strategy: intermodal and hinterland initiatives: solutions

#### Core business

#### **Enlarging flows**

- Improving intermodal solutions
  - -Existing network
  - -New links
  - -For all modes
  - -Bundling ('extended gateways')
- Commercial actions
  - -Promotion

## Optimizing chain efficiency

- Mainly intra port!
- Creation of consolidation hubs
- Enforcing inland terminals/ operators towards cooperation
- Ensuring capacity

## **Enlarging** perimeter of port

- Enlargement of port areal
  - FI./B.
  - Elsewhere
- 'Participation' in terminals



# Advantages of a collaboration for the partners

"Win-win" for the seaport and the inland hub

- Anchoring of trade flows
- Better knowledge of the local markets
- Joint marketing
- More than a "friendship agreement": financial partnership is real engagement! Sharing benefits & costs & risks
- Important/primordial role for the local partner(s): know-how, added value and employment in the area, modal shift potential
- Alternative location for logistic companies that don't need to be established in a port (land is tight in the port)



# Partnership with inland hubs: pilot project Tri-logiport (Liège)

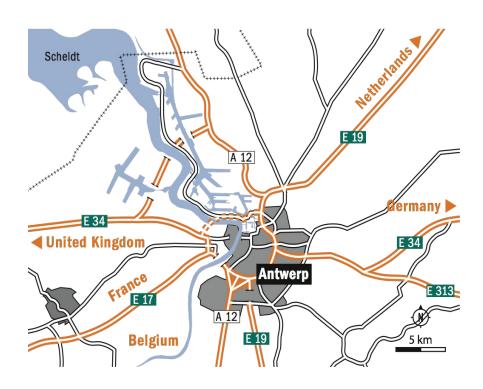
- Development of a tri-modal container terminal + added value activities
- Ideal location along the Albert Canal
- -EIG between APA, PAL and SPI (regional investment company):
  - Joint promotion
- Prospection of candidates
  - No exploitation





## Port policy towards the hinterland: Infrastructure - Road transport

- -The port is surrounded by highways
- Direct connection to surrounding countries
- -Merely 40 km from Brussels, the European capital





# Road infrastructure: Closing of the ringroad around Antwerp



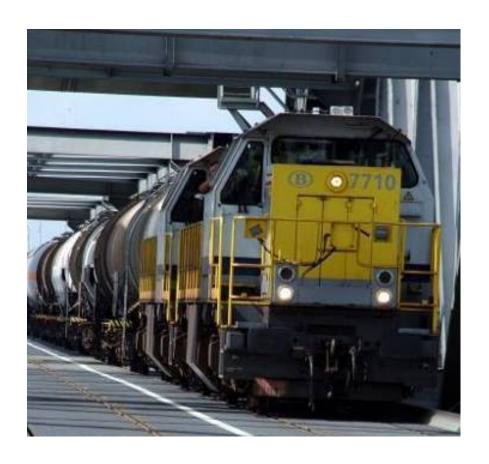


**Oosterweel connection** 



### Rail transport

- Antwerp is located on a junction of international lines
- -1,100 km of railway tracks in the port
- -Each terminal is connected to the railway network
- -220 loaded cargo trains daily

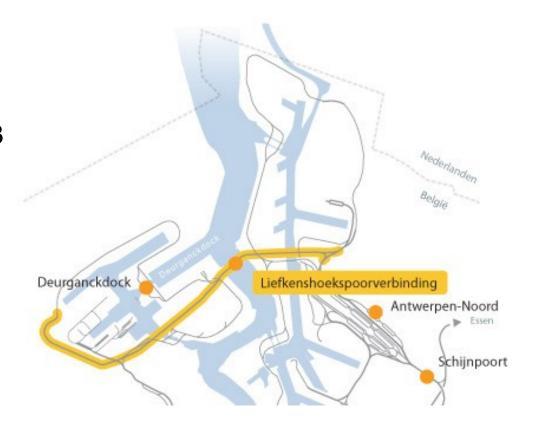




## Rail infrastructure Investments Left Bank

#### Liefkenshoek railway tunnel

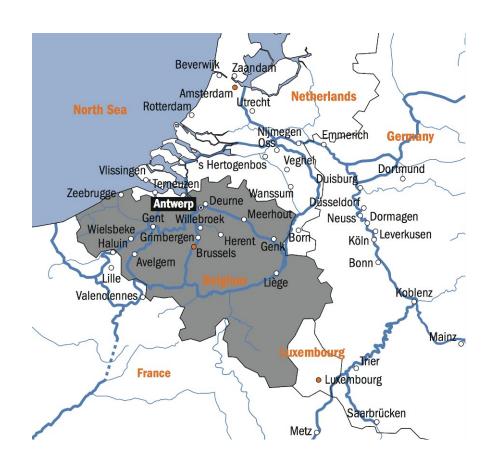
- 8 km railway between LB en RB
- Operational December 2013





### **Barge transport**

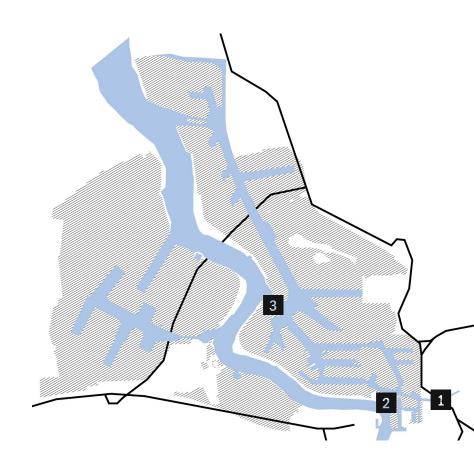
-Connected to the European waterway network by Scheldt-Rhine canal and Albert canal -Main inland terminals within easy reach: Liège, Duisburg, Ludwigshafen, Basel, Lille, etc.





### Improving barge infrastructure

- Enlarging capacity Albert canal (4 layers of containers)
- Renovation Royerslock 2013)
- Renovation Van Cauwelaertlock (2008-2011)





#### **Conclusions**

- -Success of a port will depend on the ability to integrate the port effectively into the supply chain networks
- -Transport corridors function as the glue between nodes with a central function for gateways
- Co-operation: both parties are involved: co-designership and comakership
- → Offering as a MAINport an integrated product in the total supply CHAIN!





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