



# Inland container transport from **UNIMODAL TO SYNCHROMODAL**

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# Intermodal transport



# Inland transport modes



## *Road*

- Infrastructure capacity limited
- Flexible deployment of transport capacity

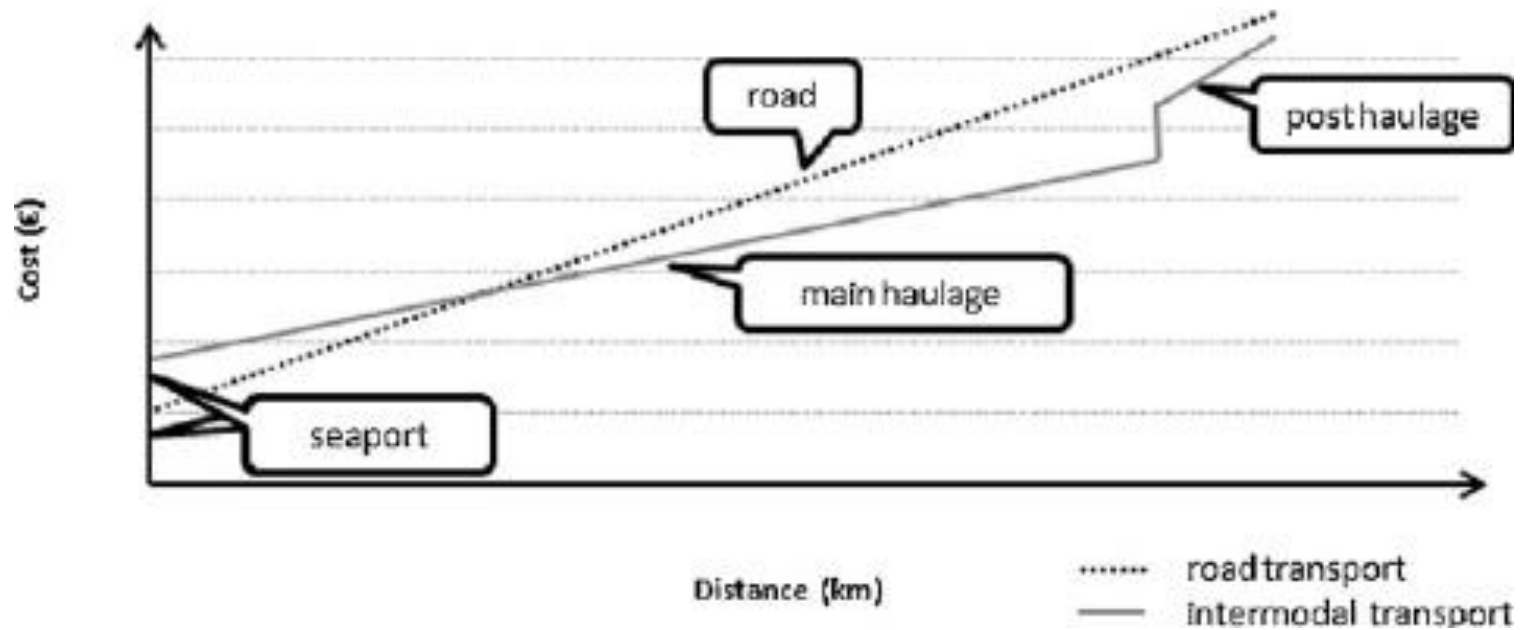
## *Rail*

- Regulated infrastructure capacity
- Complex governance structure
- Shuttle services

## *Inland Waterways*

- Infrastructure bottlenecks at locks and bridges
- Scheduled services
- Variety of vessel sizes

# Differences unimodal vs intermodal





# Added value of intermodal transport

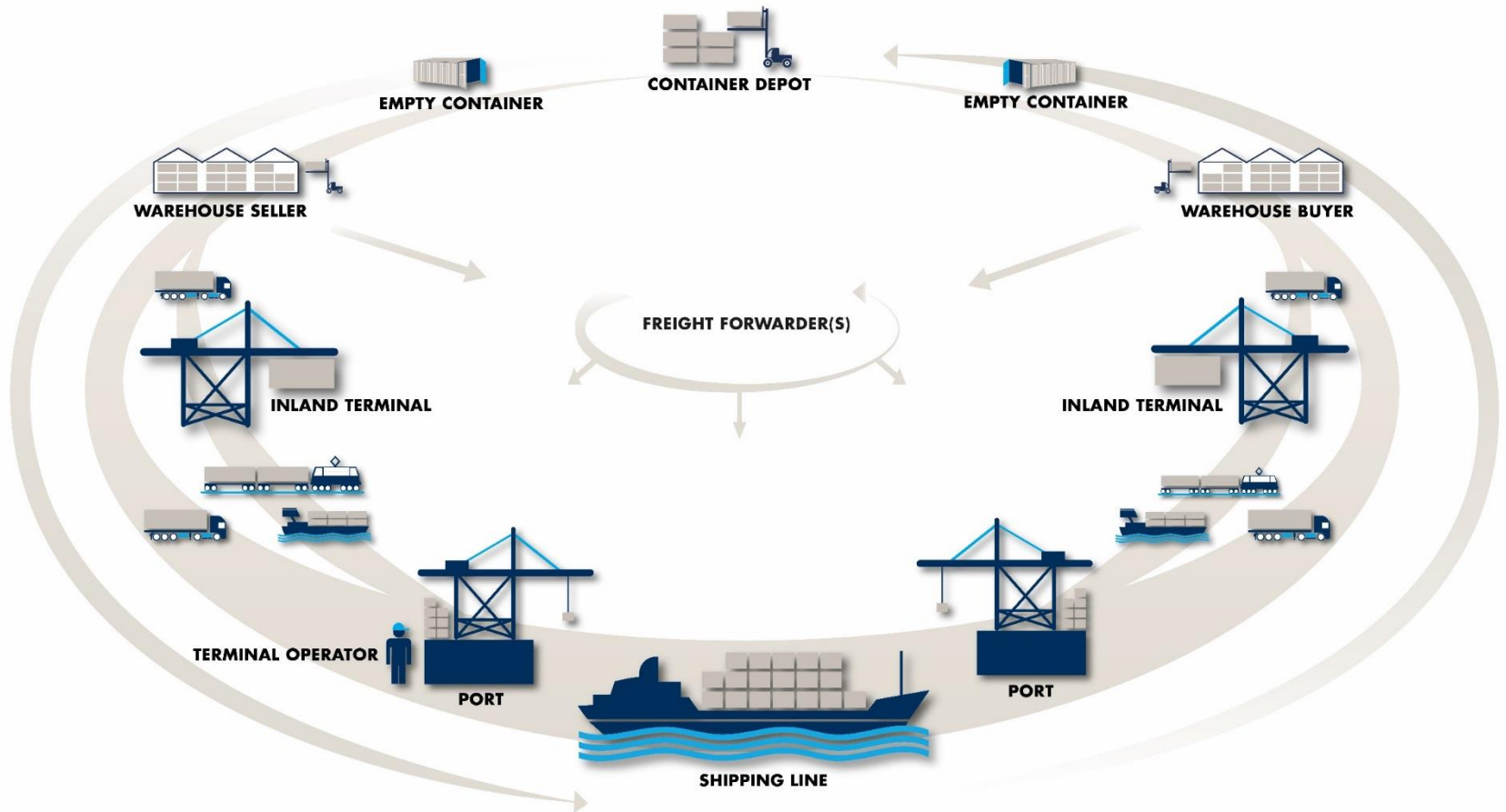
## *Shippers*

- Increase reliability and flexibility
- Decrease costs and carbon footprint

## *Governments & port authorities*

- Accessibility
- Competitive position
- Sustainability

# Position of freight forwarder

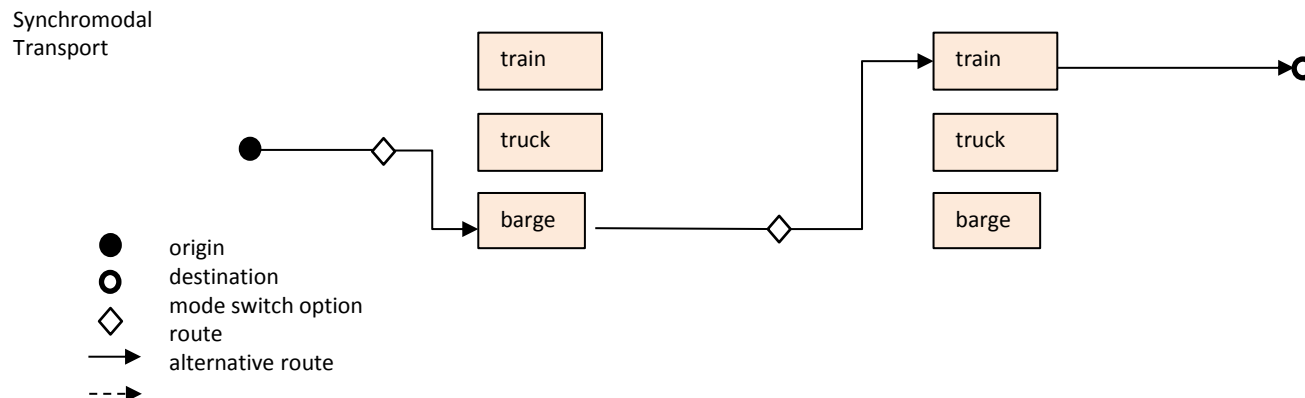
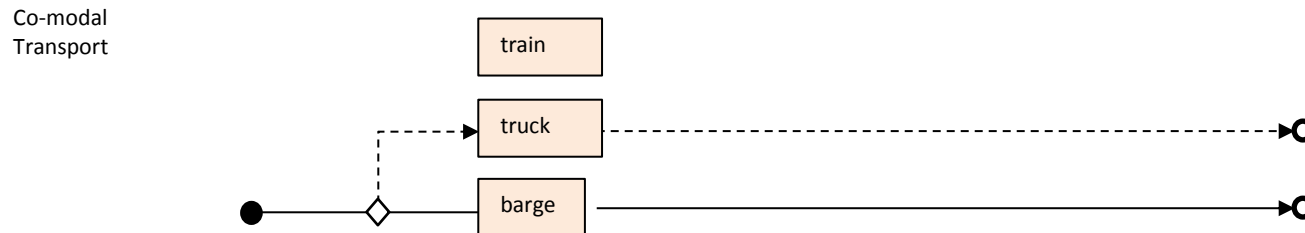
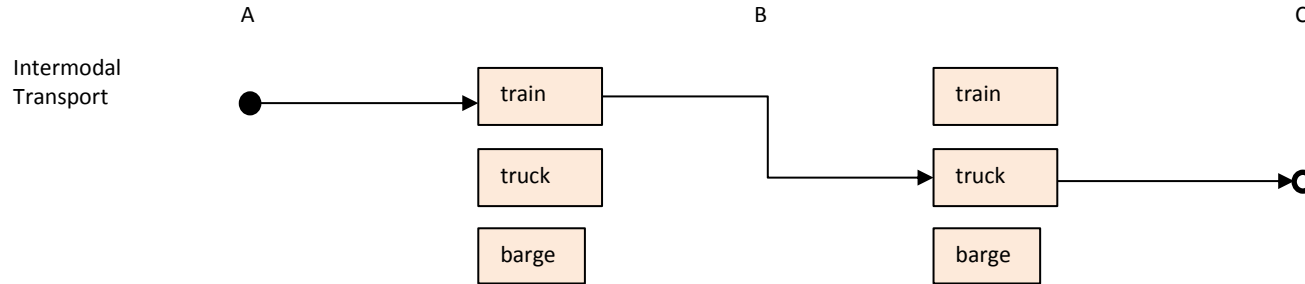


# Mental shift

- Plan in advance;
- Transit time might increase;
- Increase truck utilization by focusing on pre- and end haulage;
- Volumes need to be bundled to utilize economies of scale of the trains or barges;
- Inland terminal becomes the new partner.



# Intermodal, co-modal and synchromodal transport





# Synchromodal transport

When feasible, transport by rail or inland waterways, otherwise transport by truck (co-modality).

Necessary information:

- What transportation means and infrastructure is available shortly and is able to transport the container?
- What are the benefits if we use an alternative transport means and infrastructure?
- What are the costs and benefits of switching between modes?

# A-modal booking

- Definition: Booking of transportation without specifying the mode of transport in advance;
- Advantage of booking mode in advance: clear what capacity needs to be reserved;
- Advantage of a-modal booking: flexible deployment of transport resources.



# Rotterdam – extended gates

EUROPEAN  
GATEWAY  
SERVICES

Straight into Europe



**Extended Gate Idea** Push large volumes of containers from seaport terminals to inland terminals immediately after arrival and postpone the customs release to the inland terminals



# Characteristics extended gate services

## **Release Service**

- Arrangement of the customs release process under shipper's customs license

## **Paperless Service**

- Containers are moved to the preferred Extended Gate under the custom's license of ECT.
- Customs and other formalities are postponed to the inland terminal

## **Premium Service**

- Reliability on the agreed upon arrival time on the Inland terminal

# Questions?

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