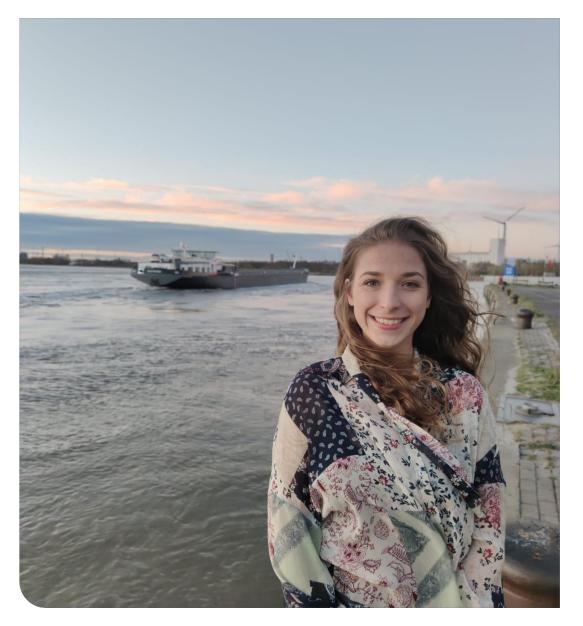


Lecture 3

Multimodal supply chain capacity issues: the way forward

Organized within framework Dennie Lockefeer Chair





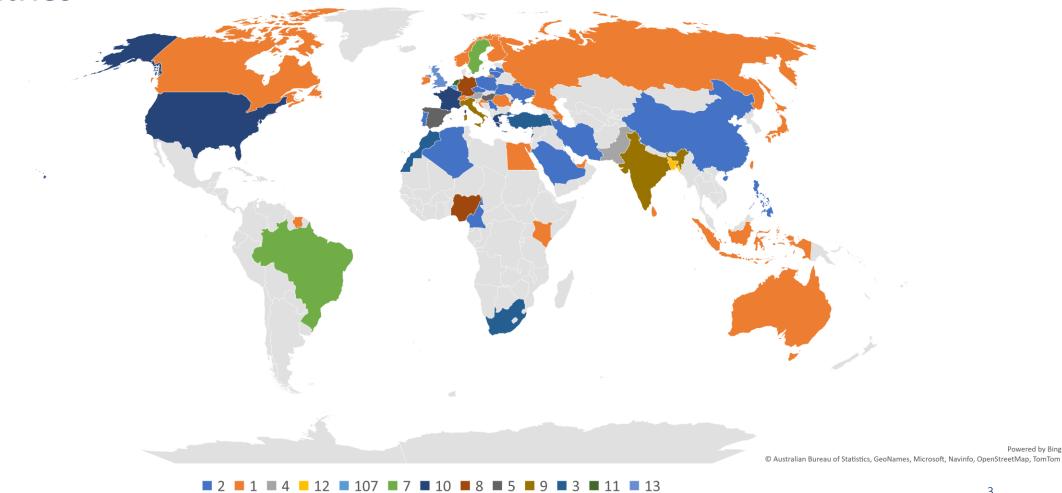
Welcome

Katrien Storms, holder Dennie Lockefeer Chair, University of Antwerp, Department of Transport and Regional Economics





53 countries





For the cloud: house rules



Participants other than speakers are **muted**.



Please write **questions** as the talk is progressing **in the Q&A**. The chair of the session will then serve as host and call upon you to ask your questions directly (allowing speaking/microphone privileges) at the end.



The session will be **recorded**. You will receive info on recording/presentation after the lecture



Technical issues: mail to katrien.storms@uantwerpen.be



Program

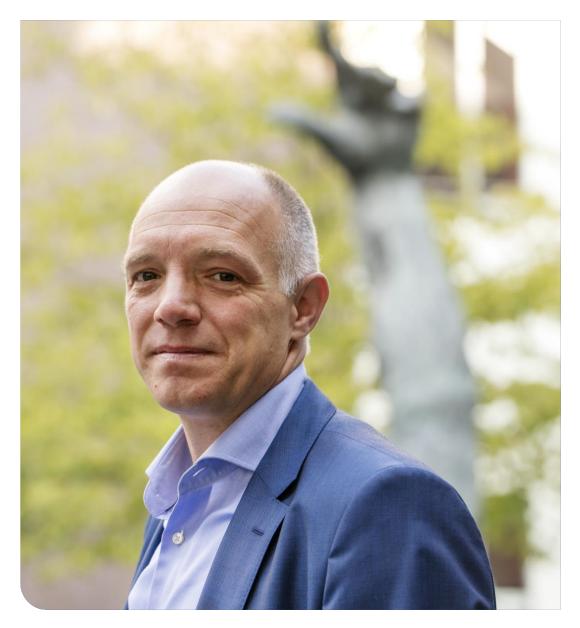
Timing	Speaker
3:30 p.m. – 4:00 p.m.	Registration with coffee
4:00 p.m. – 4:20 p.m.	 Welcome by Dean prof. dr. Koen Vandenbempt – Faculty of Business and Economics, University of Antwerp Yves Hebb – Van Moer Logistics
4:20 p.m. – 4:30 p.m.	Setting the scene by prof. dr. Christa Sys – promotor Dennie Lockefeer Chair
4:30 p.m. – 5:00 p.m.	Research "Managing delayed containers: legal and managerial best practices" by Katrien Storms – holder Dennie Lockefeer Chair and prof. dr. Wouter Verheyen
5:00 p.m. – 5:40 p.m.	 Industry panel moderated by prof. dr. Thierry Vanelslander – promotor Dennie Lockefeer Chair Alain Baeyens – Umicore Marco Huijsman – Cofano Dirk Van den Bosch – DP World Antwerp Frank Hellebosch – CBO barging solutions
5:40 p.m. – 5:50 p.m.	Q&A or overall closing discussion
5:50 p.m.	Closing + reception drink



Welcome

Dean prof. dr. Koen Vandenbempt and Yves Hebb





Welcome

Dean prof. dr. Koen Vandenbempt

– Faculty of Business and
Economics, University of Antwerp





Dennie Lockefeer Chair

3 pillars

- Research
 - Short-term and long-term
- Education
 - Thesis award
 - Antwerp Inland Navigation School
- Scientific services
 - Lectures
 - Webinar





Inauguration



Lecture 2





Lecture 1



Dennie Lockefeer thesis award



Webinar



Antwerp Inland Navigation School

Dennie Lockefeer Chair

Unique ecosystem of 30 companies and friends of the chair

Gold































































Welcome

Yves Hebb – HR Director Van Moer Logistics





Setting the scene What indicators tell...

By prof. dr. Christa Sys







7 AFFORDABLE AND CLEAN ENERGY

- (4)



8 DECENT WORK AND ECONOMIC GROWTH

14 LIFE BELOW WATER















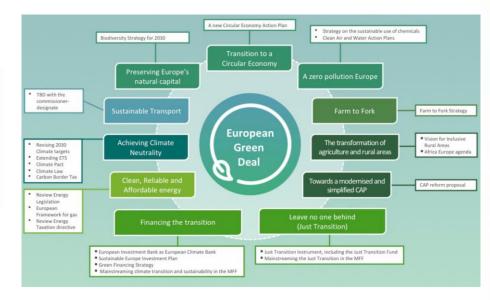














ZERO-EMISSION MOBILITY

- 90% reduction in transport emissions;
- All transport modes are made more sustainable;
- Sustainable alternatives are available;
- Right incentives are in place for sustainable choices.
- AND EFFICIENT CONNECTIVITY
- Seamless multimodal transport based on digital solutions;
- Wnleash full potential of data;
- Develop and deploy connected, cooperative and automated mobility services:
- Paperless freight transport in favour of fast, digital procedures.

TRANSPORT AREA: FOR INCLUSIVE CONNECTIVITY

- Reinforced Single Market:
- more investment in infrastructure and fleets; deepening and enforcing internal market; making our system crisis proof.
- Fair and just mobility (that is affordable and accessible);
- Enhanced safety and security.

THE EU AS THE WORLD'S CONNECTIVITY HUB

#MobilityStrategy





Central theme chair: Intermodality/modal shift

SSMS:

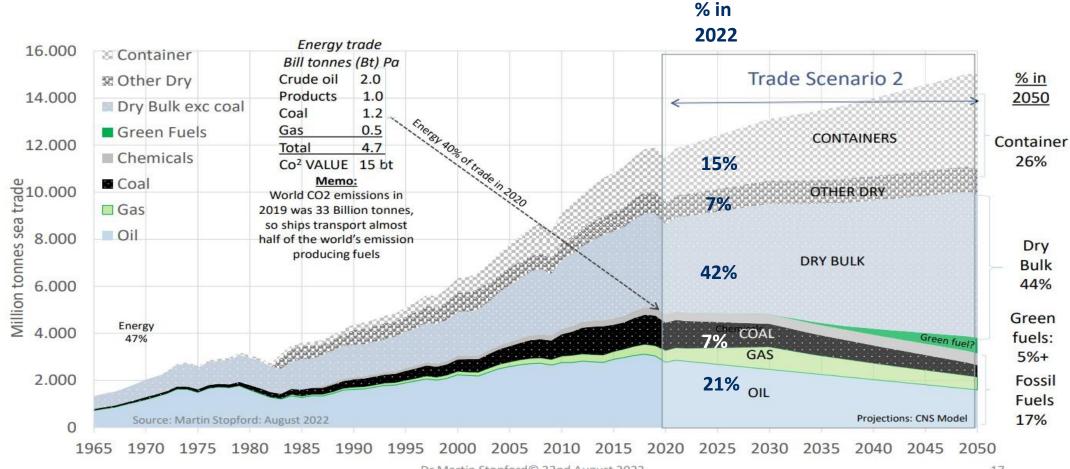
- to shift a substantial part of the freight transport to sustainable and less congested transport modes
- Inland waterway transport and short-sea shipping volumes should increase by 25% by 2030 and by 50% by 2050
- NAIADES III program: Inland Waterway Transport Action Plan 2021-2027'
 - shifting more freight transport to inland waterways, and
 - setting the sector on an irreversible path to zero-emissions accompanied by a paradigm shift towards further digitalization
- → Inland navigation as an essential component of intermodal transport





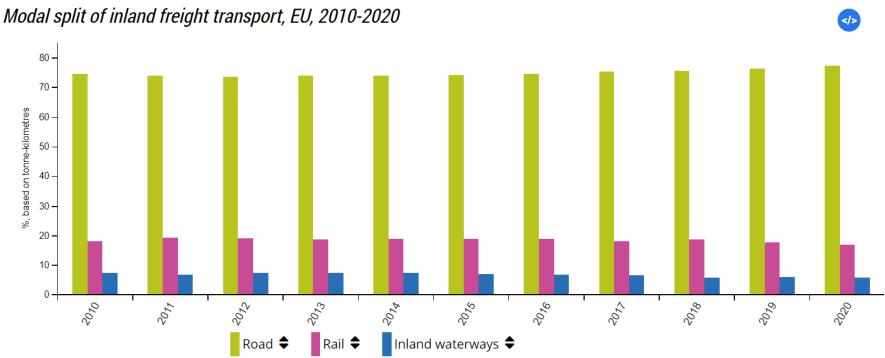
Will growth of seaborne containers be reflected in inland container shipping?

Sea trade by commodity showing actual volumes to 2021 and Trade Scenario 2 for 2020-2050 (revised August 2022)



Core objective 1: an increased share of inland waterway transport

In 2020, road freight transport accounted for 77.4 % of the total inland freight transport, followed by rail and inland waterways transport (16.8 % and 5.8 % respectively)(Eurostat, 2022)



Includes Eurostat estimates for rail transport for Belgium (2012-2019) and inland waterways transport for Finland (2017-2018), but does not include road transport for Malta, international transport of Cyprus (negligible) and inland waterways transport for Sweden (2008-2015: negligible).

Figures may not add up to 100% due to rounding.

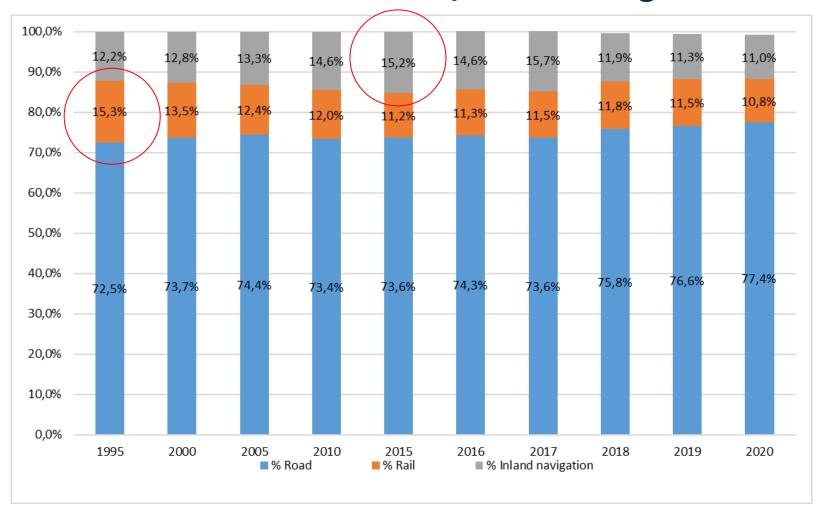
Source: Eurostat (online data code: tran_hv_frmod)





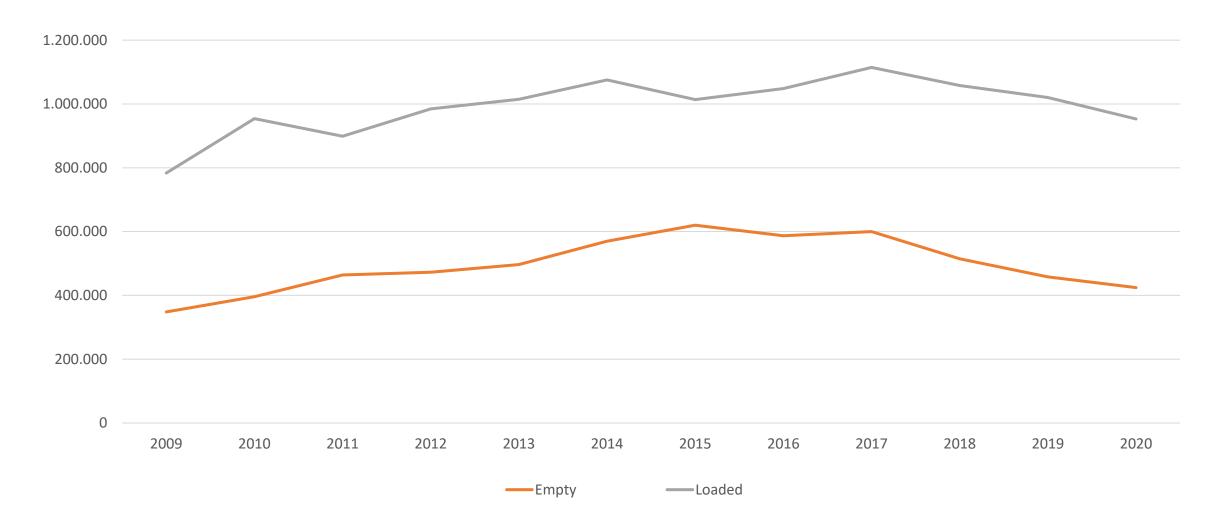
Evolution freight transport in Belgium (%)

Mode shift reversal from rail/inland navigation back to road



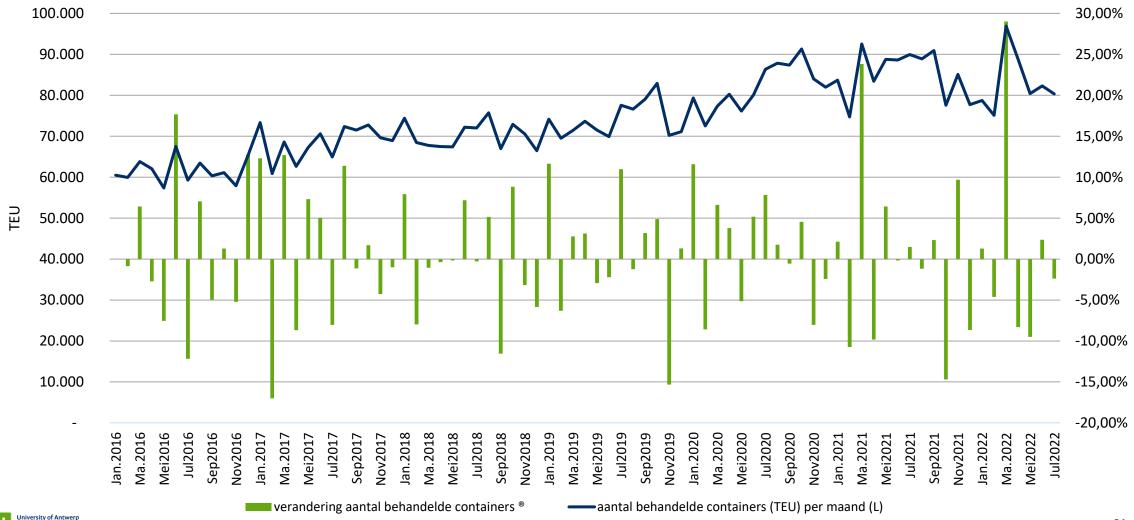


Container inland navigation EU-27 (1000 TEUtkm)



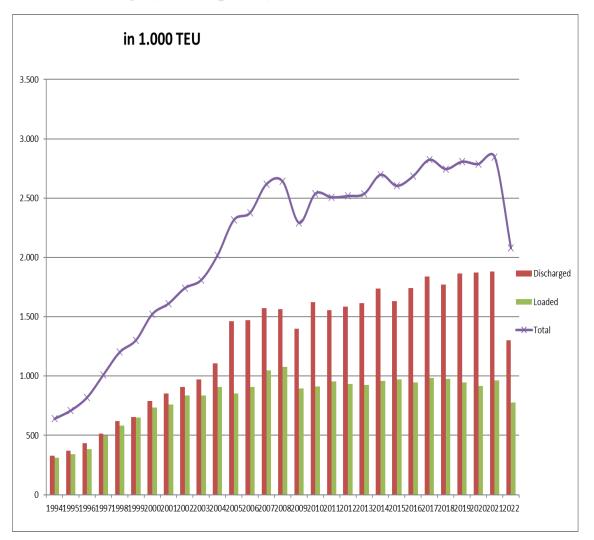


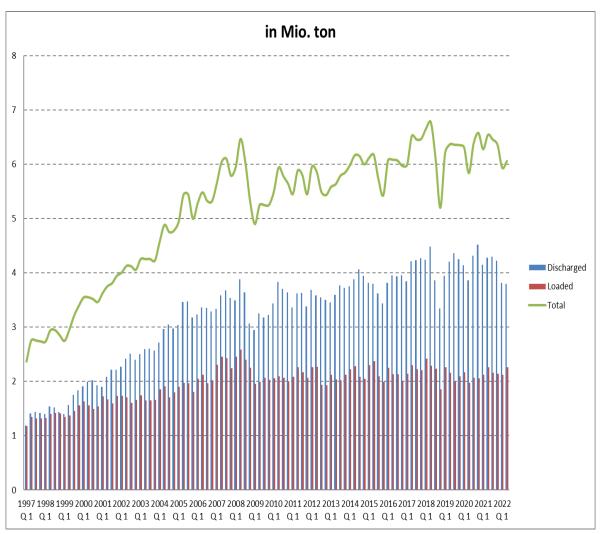
Container inland navigation in Flanders, Belgium (TEU)





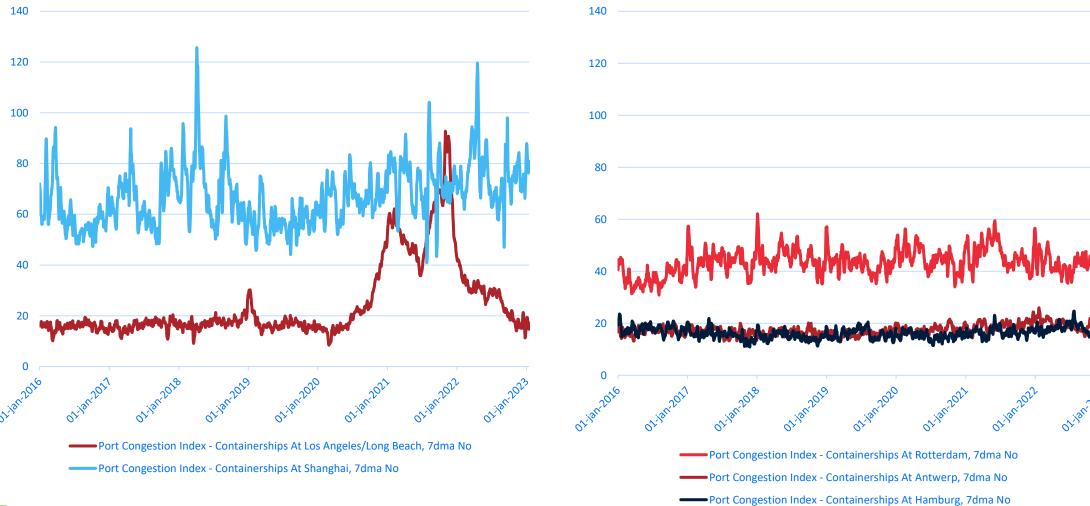
Evolution container traffic in inland navigation in the port of Antwerp(Bruges)







Correcting imbalances: long-lasting port congestion





Sentiment regarding D&D

Katrien Storms





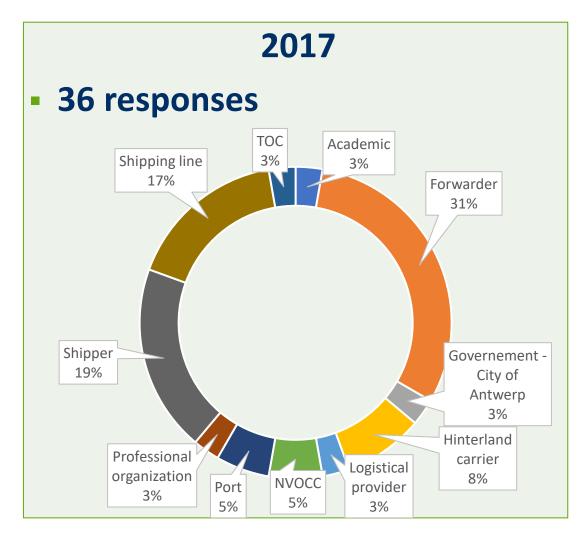
What is D&D

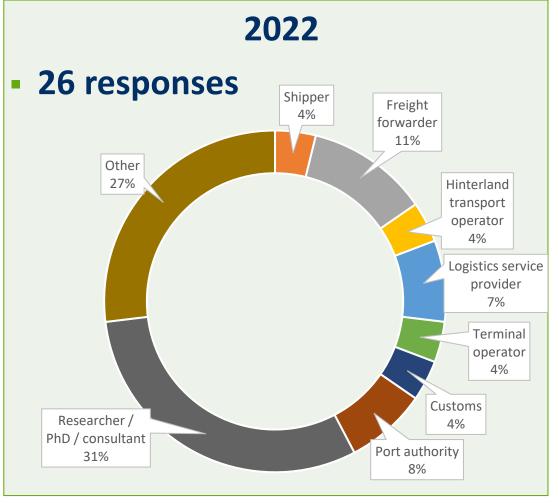
"The compensation paid depending on the Incoterms and Bill of Lading (Merchant Clause) by the consignor or consignee (including freight forwarders and others acting on their behalf) to the shipping company for the delay of the container

- at the terminal (<u>= demurrage</u>), and/or
- in the chain (<u>= detention</u>),

if the <u>agreed period (free time) has</u> <u>expired</u>"









2017

- Major reasons for D&D
 - Shortening of free time
 - Increasing D&D fee
 - Terminal congestion
- Most feasible solutions
 - Increased attention during negotiations
 - More free time for intermodal transport
 - Increased digitalization

2022

- Major reasons for D&D
 - Shortening of free time
 - Terminal congestion
 - Increase in ship size
- Most feasible solutions
 - More free time for intermodal transport
 - Increased digitalization
 - Working days instead of calendar days



85% do not negotiate D&D

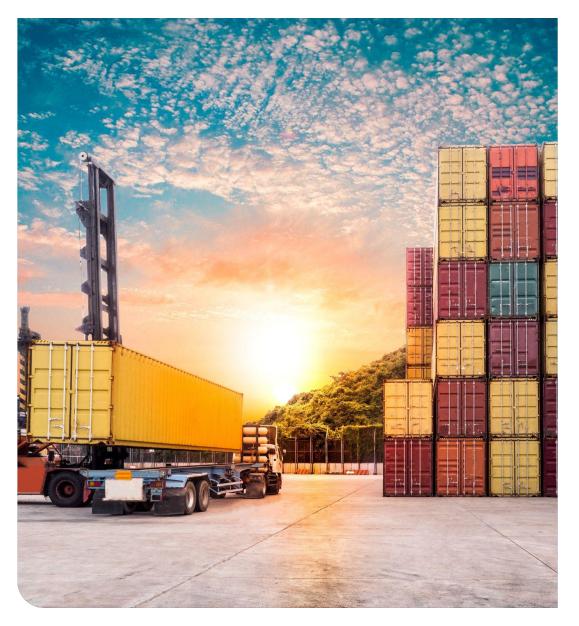
- If negotiated
 - Fixed contracts, not for spot contracts
 - More free time for intermodal transport

75% indicate that D&D hinders intermodal transport

- Short free time is a game stopper for intermodal transport
- Several carriers offer same D&D free time for all modalities → disadvantage
- Free time is no longer sufficient to make a round trip → difficult for barge transport to compete with road transport
- Lack of flexibility for re-use

69% find that D&D should not be abolished





- Other intermodal issues.
 - Waiting times at terminals
 - Unrealistic terminal slots
 - Congestion at ports
 - Collecting data
 - Unreliable schedules of rail and barge
 - Mental conservatism
 - Modal shift challenged by additional handling costs and expensive last mile by truck
 - Digitalization is lacking behind



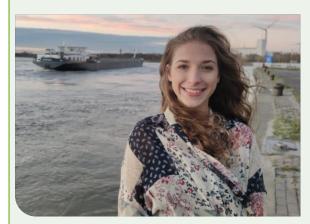
Managing delayed containers: legal and managerial best practices

Katrien Storms, Marta Kolacz, Christa Sys and Wouter Verheyen



When young and senior researchers meet each other

Department of Transport and Regional Economics



Katrien Storms

Holder Dennie Lockefeer
 Chair



Prof. dr. Christa Sys

- Promotor Dennie Lockefeer Chair
- Holder BNP Paribas Fortis
 Chair

Faculty of Law



Dr. Marta Kolacz

- Marie-Curie Post-Doc Rouen Univ
- Affiliated senior researcher
 Antwerpen Univ



Prof. dr. Wouter Verheyen

Tenure track docent



Research rationale

Lecture 1

Lecture 2

Research

7 solutions:

- Using working days instead of calendar days
- Increased (attention during) negotiations
- Earlier announcement planning
- More free time for inland locations when using intermodal transport
- Digitalization
- Re-use of containers
- Legislation

Panel

- Customs
- Legal
- Finance

Research

Economic-legal approach

Panel

- Shipper
- Terminal
- IT
- Inland navigation sector





Panel

By prof. dr. Thierry Vanelslander



Panel members



Dirk Van den Bosch DP World Antwerp



Marco Huijsman Cofano



Frank Hellebosch CBO, Barging Solutions



Alain Baeyens Umicore



Industry panel

Can more attention to D&D during the negotiation of the contract contribute to limiting D&D

More free time for intermodal transport → (Reverse) Modal Shift

In the past, shipping lines (e.g. Maersk) introduced D&D calculators, etc. Is it a failure? As D&D remains a topic of concern. Does increased digitalization help?

→ need for collaboration

More/new legislation (waiting times)

Night deliveries

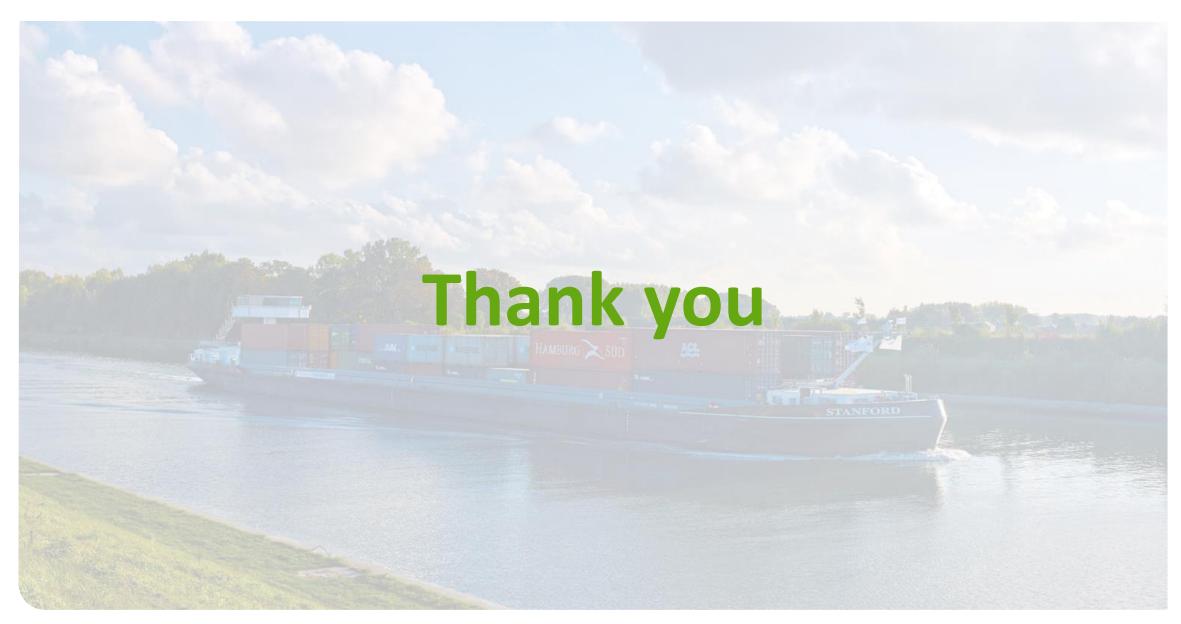
Increased Customs Screening



Closing

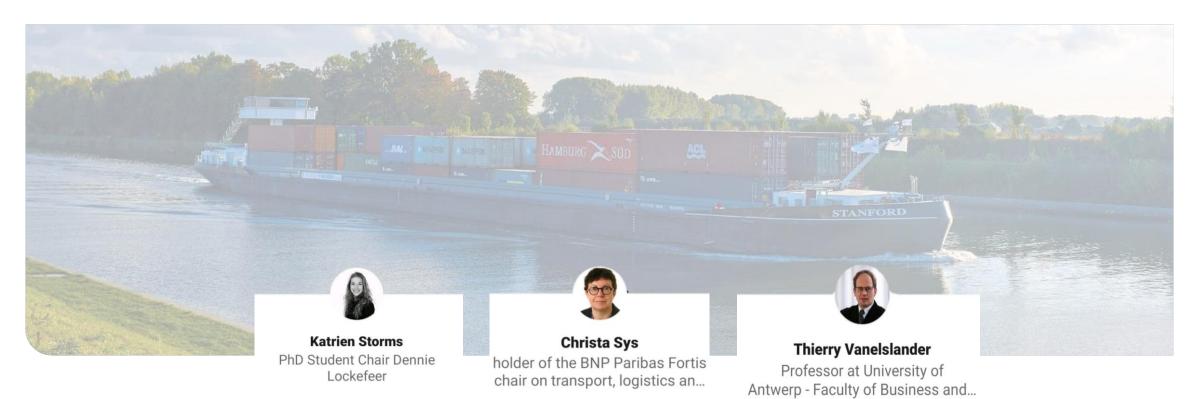
By prof. dr. Thierry Vanelslander







Thank you for your attention













Dennie Lockefeer Chair

Dennie Lockefeer Thesis Prize 2023

More info website:

Dennie Lockefeer Chair | Transport and Regional Economics | University of Antwerp



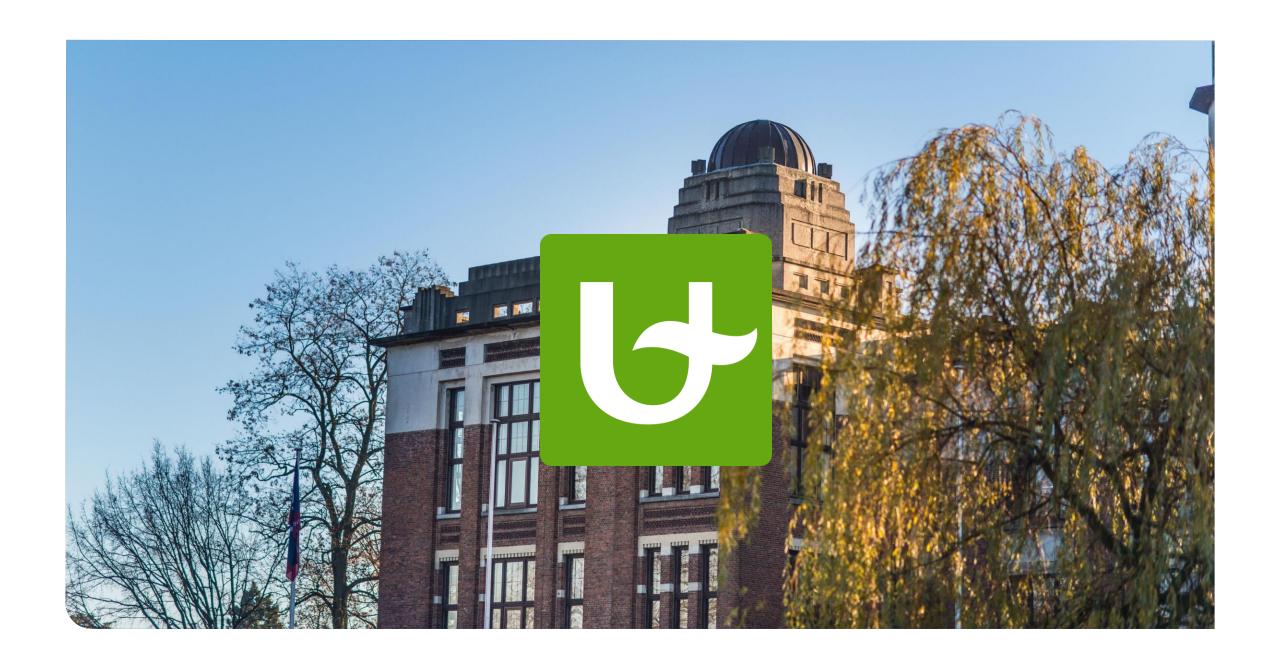
(uantwerpen.be)

Follow us on in LinkedIn:

Dennie Lockefeer Chair









Note

Thursday 18 Jan. 2024