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ITMMA Universiteit Antwerpen

RHINE-SCHELDT DELTA PORT REGION



Economic Analysis of the Warehousing & **Distribution Market** in Northwest Europe













**STRATEGIC EVALUATION** 

OF THE BELGIAN PORT SECTOR























**Green Supply Chains** 

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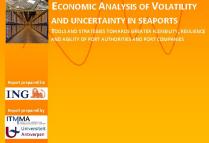


#### **BREAK BULK**



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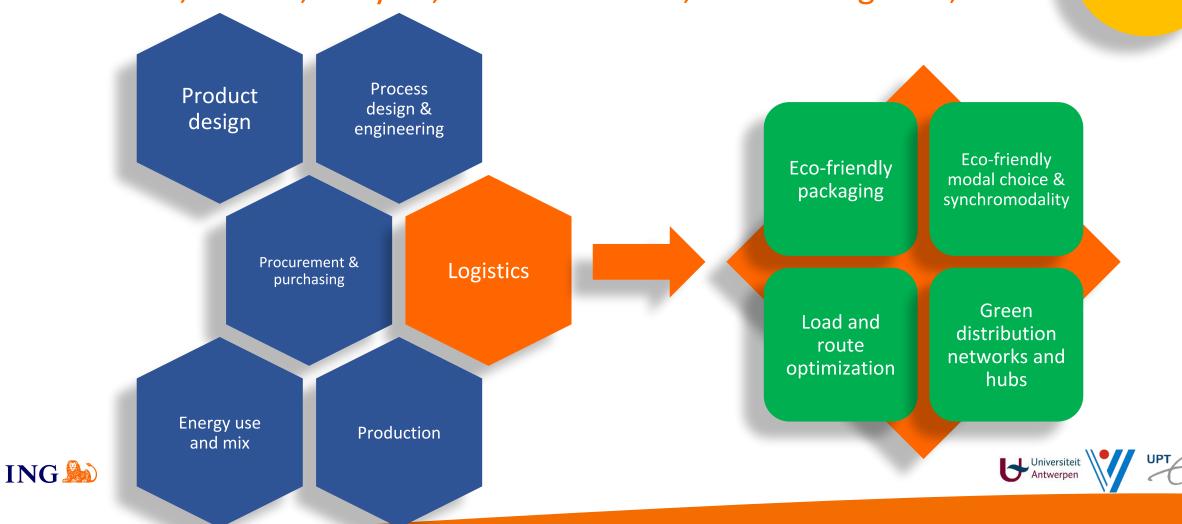




# Key features of GSCM

Reduction in environmental impacts by focusing on a series of R's: Reduce, Re-use, Recycle, Remanufacture, Reverse logistics, etc.

Sense of urgency



Pushing for green supply chains against background of volume and investment growth

PORT OF PERSONS

Seagoing traffic in Rhine-Scheld Delta: 925 million tons in 2018 -CEEPS of hister portished in E-Lizzb





# Wide range of fields of action for GSCM in ports

### With involvement of multitude of actors

#### **Green shipping**

e.g. Green port dues (ESI)

Shore Power Supply

Support LNG as a ship fuel

#### **Knowledge exchange & development**

e.g. Co-operation through associations (WPSP, Ecoports) and coalitions of the willing
Sustainability reporting
Incubators, universities, research institutions

#### **Circular economy**

e.g. Industrial ecology
Seaports as hubs for recycle flows
Use of renewable energy sources

#### **Green port development & operations**

e.g. CCUS (Carbon capture utilization and storage)

"ecologies of scale"

Windmills and solar parks/roofs in ports

Energy transition

Green concession policy

#### **Green inland logistics**

e.g. Synchromodality
Inland terminals and port-hinterland concepts
Spread traffic in time and space
Pipeline network





## **GSCM** initiatives

## Some of the main issues and concerns



Corporate financial health + business case Paradigm shift?



Choice of green technology or energy source



Distribution of cost/benefits in case of collaboration



How to reach targets?



'Greenwashing'



Lack of coherence and continuity of public policies (e.g. subsidies)

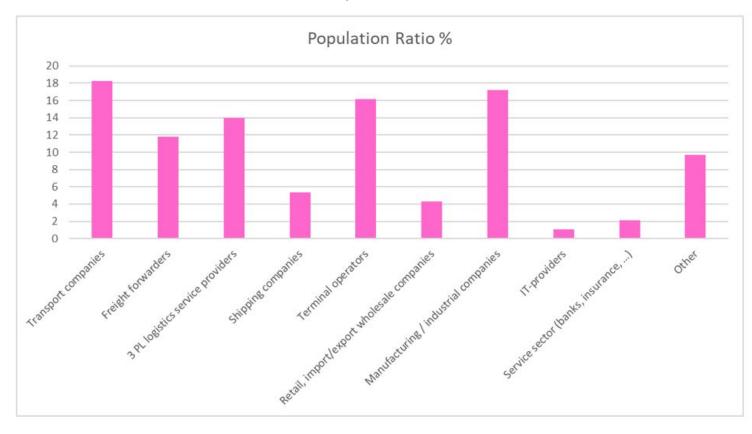




# Survey Survey population

- Assessment of the realisations, initiatives and expectations of the stakeholders in the field of greening of port logistics
- 22 questions
- About 1000 companies were invited to participate
- C-level or senior mngt

#### Response rate







## How much of a topic is greening for your company?

	Prior to 2010	Prior to 2015	Since 2016- 2017	Since last year (2018)	We're starting ● (2019)	We will start next ● year(2020)	We are planning to start (2021-2022)	<ul><li>Not yet</li></ul>
Since when has greening been a topic ?	32 (34,4 %)	33 (35,5 %)	13 (14,0 %)	5 (5,4 %)	3 (3,2 %)	0	2 (2,2 %)	5 (5,4 %)
Since when has greening been included in your mission statement ?	21 (22,6 %)	24 (25,8 %)	18 (19,4 %)	7 (7,5 %)	5 (5,4 %)	1 (1,1 %)	0	17 (18,3 %)
Since when have you effectively expanded into actions?	24 (25,8 %)	27 (29,0 %)	11 (11,8 %)	13 (14,0 %)	4 (4,3 %)	3 (3,2 %)	2 (2,2 %)	9 (9,7 %)

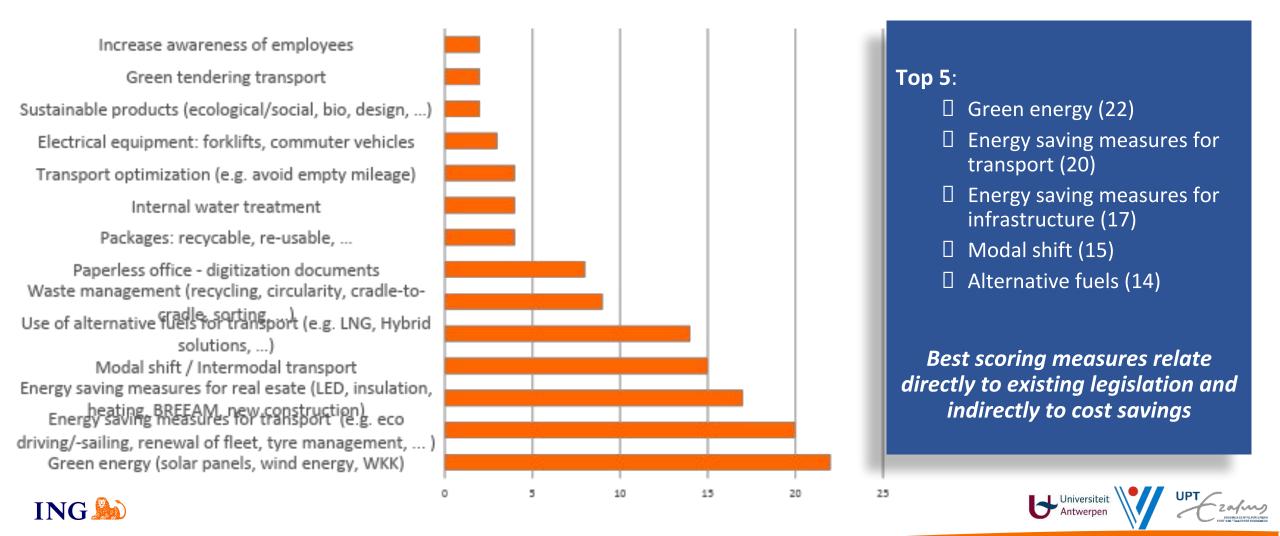
### **Findings**

- 70%: **topic** prior to 2015
- LSPs: significantly more aware (78% by 2015) and active (80% by 2017)
- Shippers: a stunning 85% included it in their company mission by 2017, but only 50% have moved to actions by then
- Almost 20% still needs to get into action

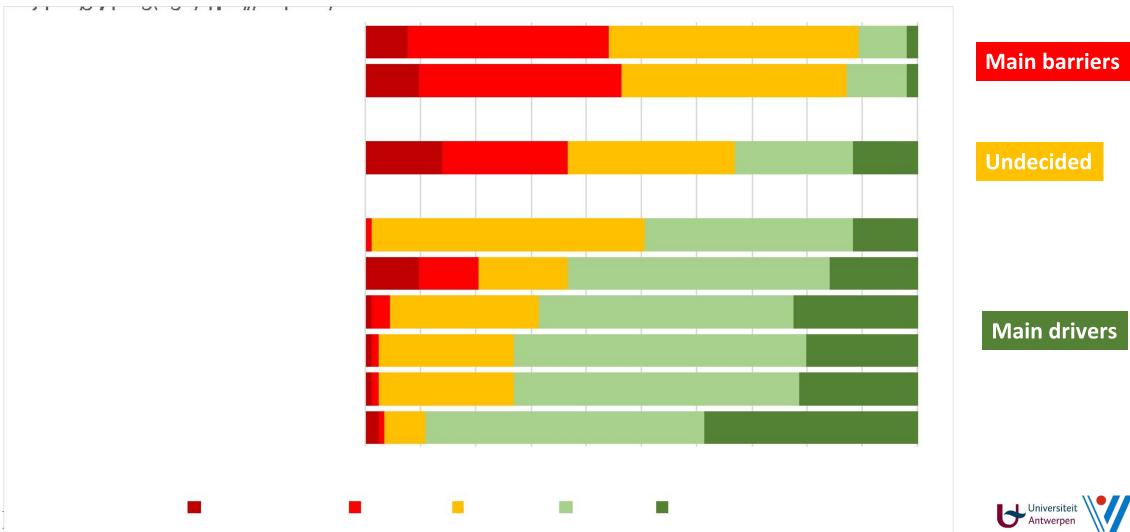




#### Most obvious example of a green measure?

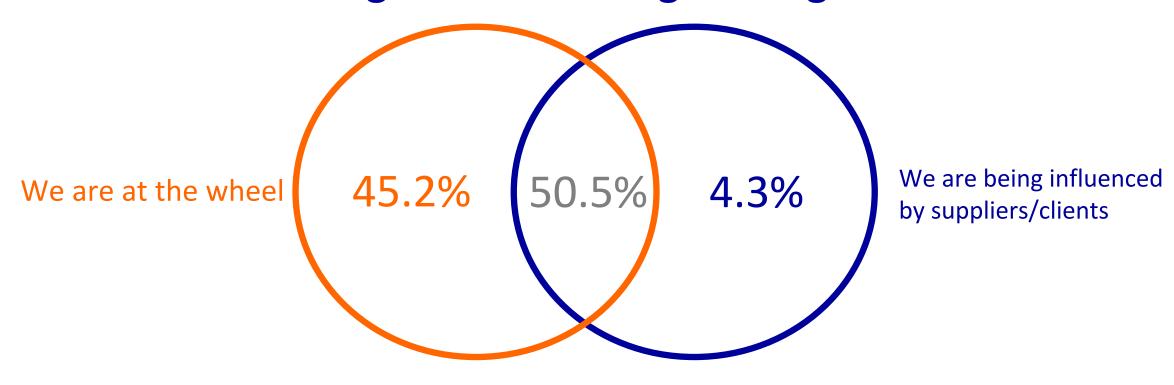


## Major drivers & barriers to greening of supply chains





## Who is the driving force behind greening?



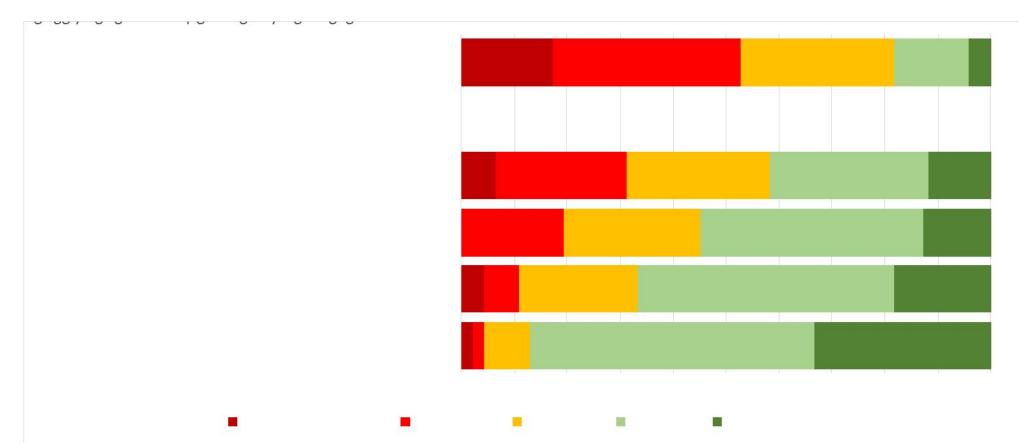
#### How is greening imposed?

Design specifications, environmental audits, sustainability ratings/certification, etc...





# Survey The role of government



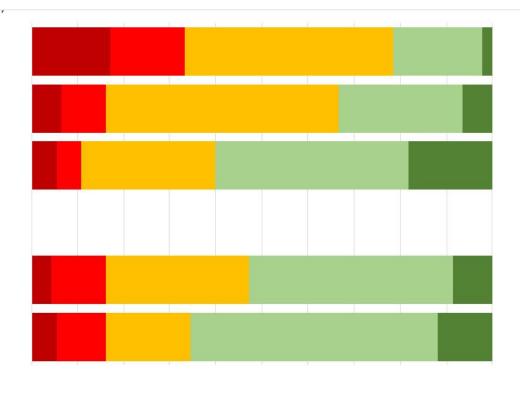
## **Findings**

- 53%: some **involvement** is desirable (*Shippers*: 80%)
- Impose minimum standards
  - □ all *shipping companies* (100%)!
- **Subsidies**: Especially by *LSPs* (83,2%)





Is competition between ports and companies influenced by greening actions?



## **Findings**

- Mainly influence: companies own competitiveness (66%) and choice of transport mode (60%)
- 52.7% sees greening as an opportunity for collaboration





# Key conclusions

Urgency - but still a large group that has to get into real action

Major activities are in energy saving actions: business case is leading

Drivers are not all economic: reputation, being attractive for young employees & just striving for a better planet

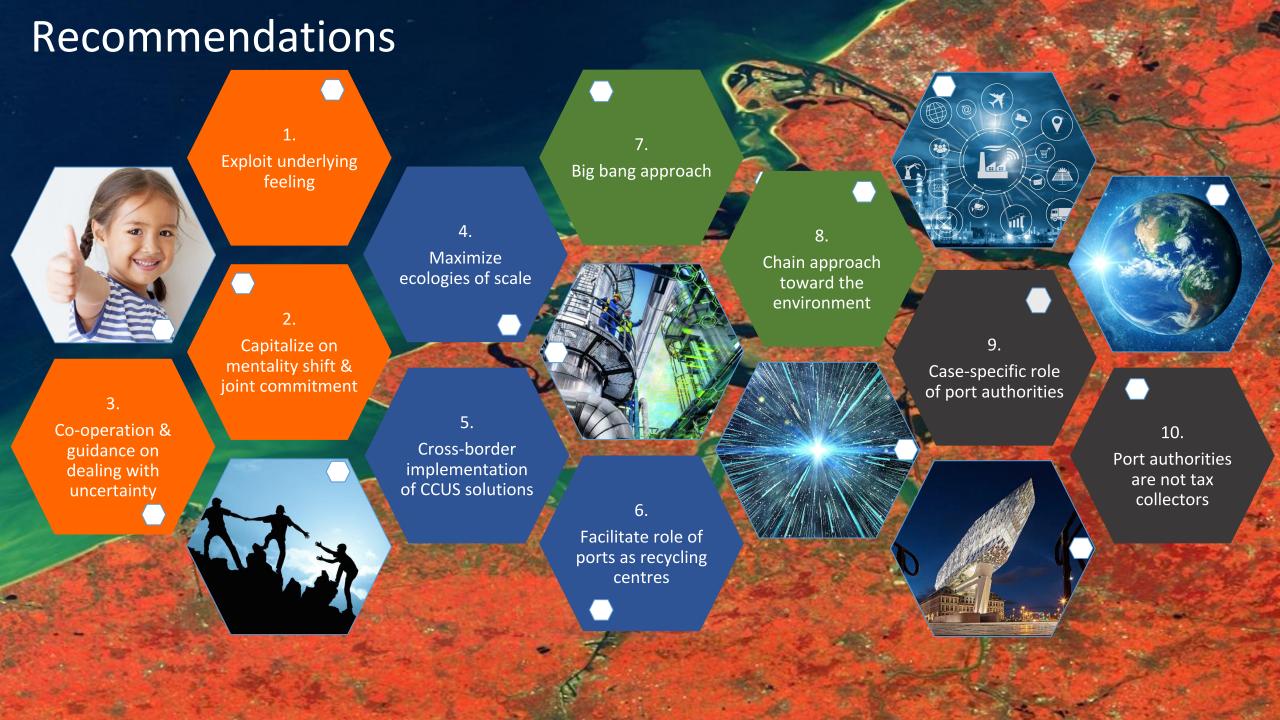
KPI's are missing, needed for enabling the measurement of progress and impact

(Not) Greening seemingly may have direct implications for market shares

Almost everyone agrees that greening is a joint responsibility









The report was prepared for ING Belgium, visit www.ing.be.

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