



Economie ontcijferd, 7 februari 2023



University of Antwerp  
| TPR | Department of Transport  
and Regional Economics

# Economie ontcijferd

To sea or not to sea

Impact disrupties op de toeleveringsketen

Dr. Joost Hintjens

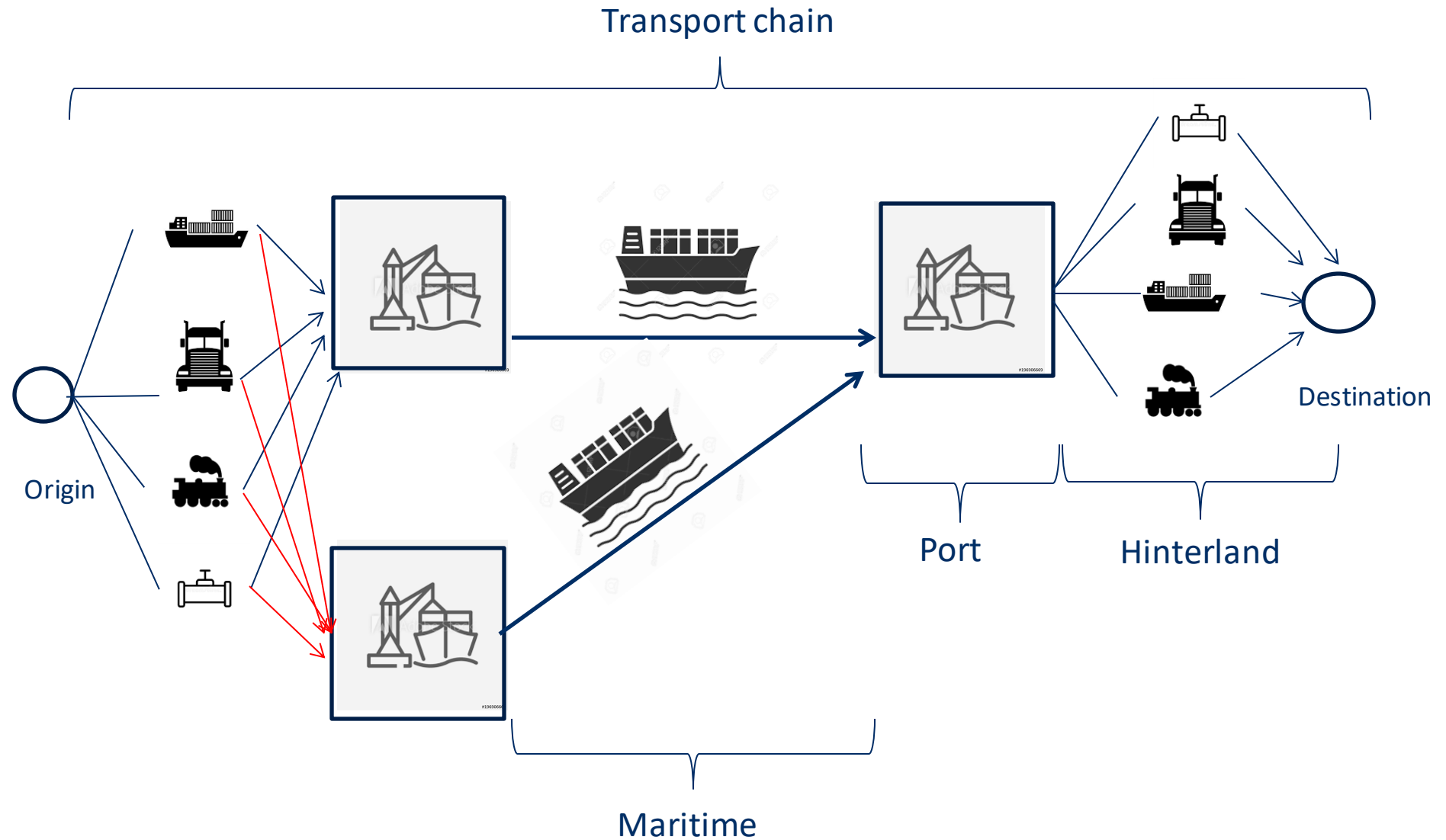
Universiteit Antwerpen

Departement Transport en Ruimtelijke Economie



# Wat is de belangrijkste transportvorm?

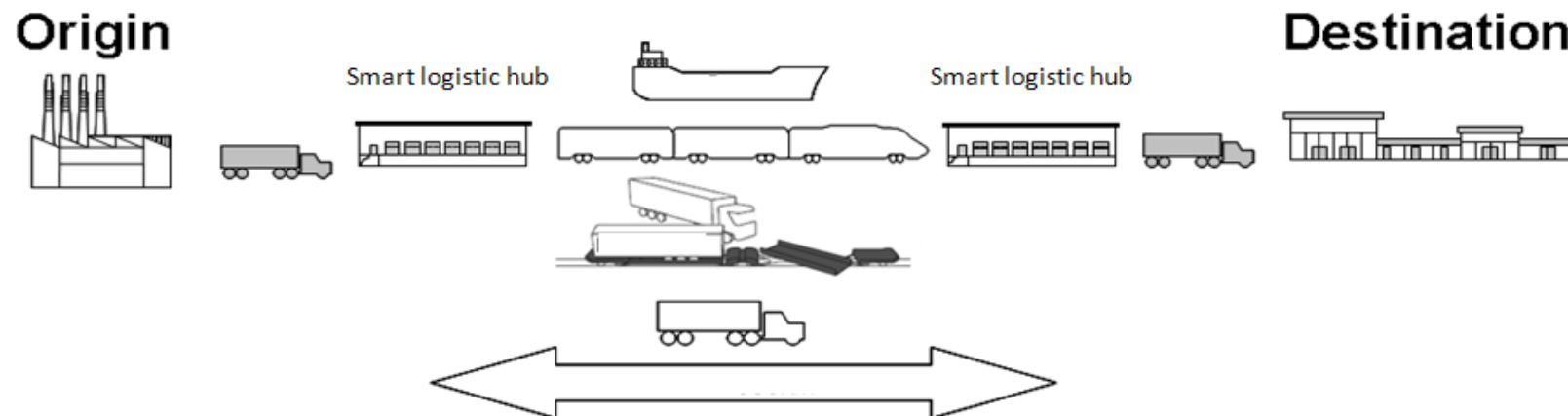
En hoe meten we dat?

# De maritieme keten



# Havens, bron van welvaart

- Ports are links, not destinations
- Port competition: important topic in transport economics
  - (large volumes, employment, investment,...)
-  ports are complex and heterogeneous
-  competition between entire supply chains



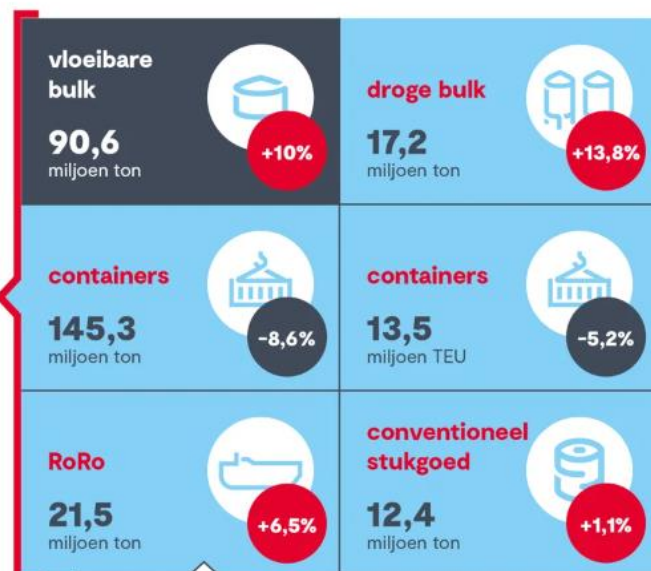
# Havens, bron van welvaart

## Cijfers Port of Antwerp-Bruges 2022



### Totale goederen overslag

286,9 miljoen ton



144 cruiseschepen



20.675 zeeschepen



### PORT OF ANTWERP 2021

11,465 ha

OR 16,600 FOOTBALL FIELDS

1000

COMPANIES

62,781

DIRECT JOBS

€18,889,500.000

DIRECT AND INDIRECT ADDED VALUE

4,1%

OF GDP

### PORT OF ZEEBRUGGE 2021

2,857 ha

OR 4,220 FOOTBALL FIELDS

400

COMPANIES

9,825

DIRECT JOBS

€1,867,900.000

DIRECT AND INDIRECT ADDED VALUE

0.4%

OF GDP

62,781

DIRECT JOBS IN 2020

79,166

INDIRECT JOBS IN 2020

141,947

TOTAL EMPLOYMENT IN 2020

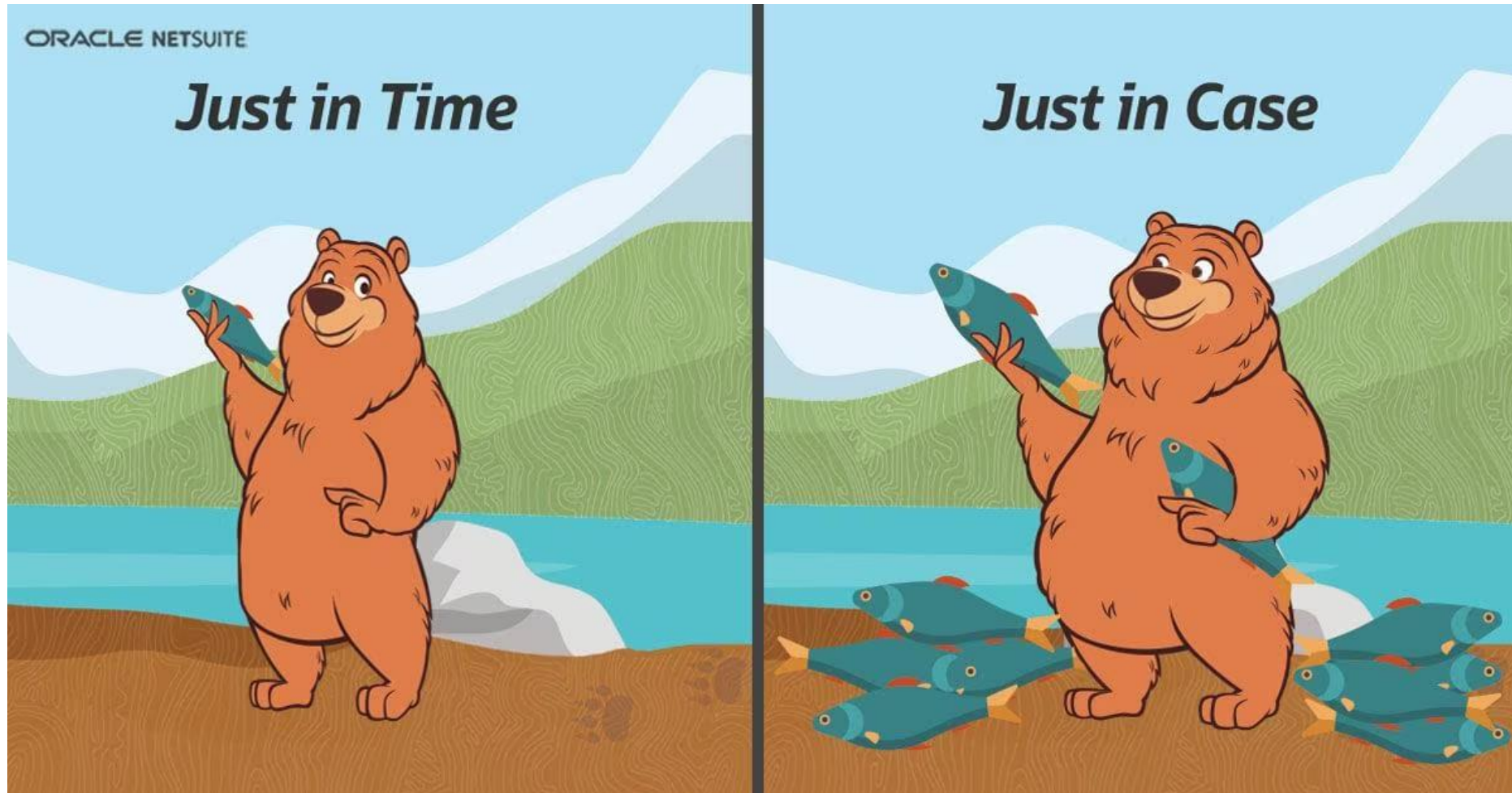
(Source: National Bank of Belgium, 2022)



# Mondiale toeleveringsketen



# Just-in-time





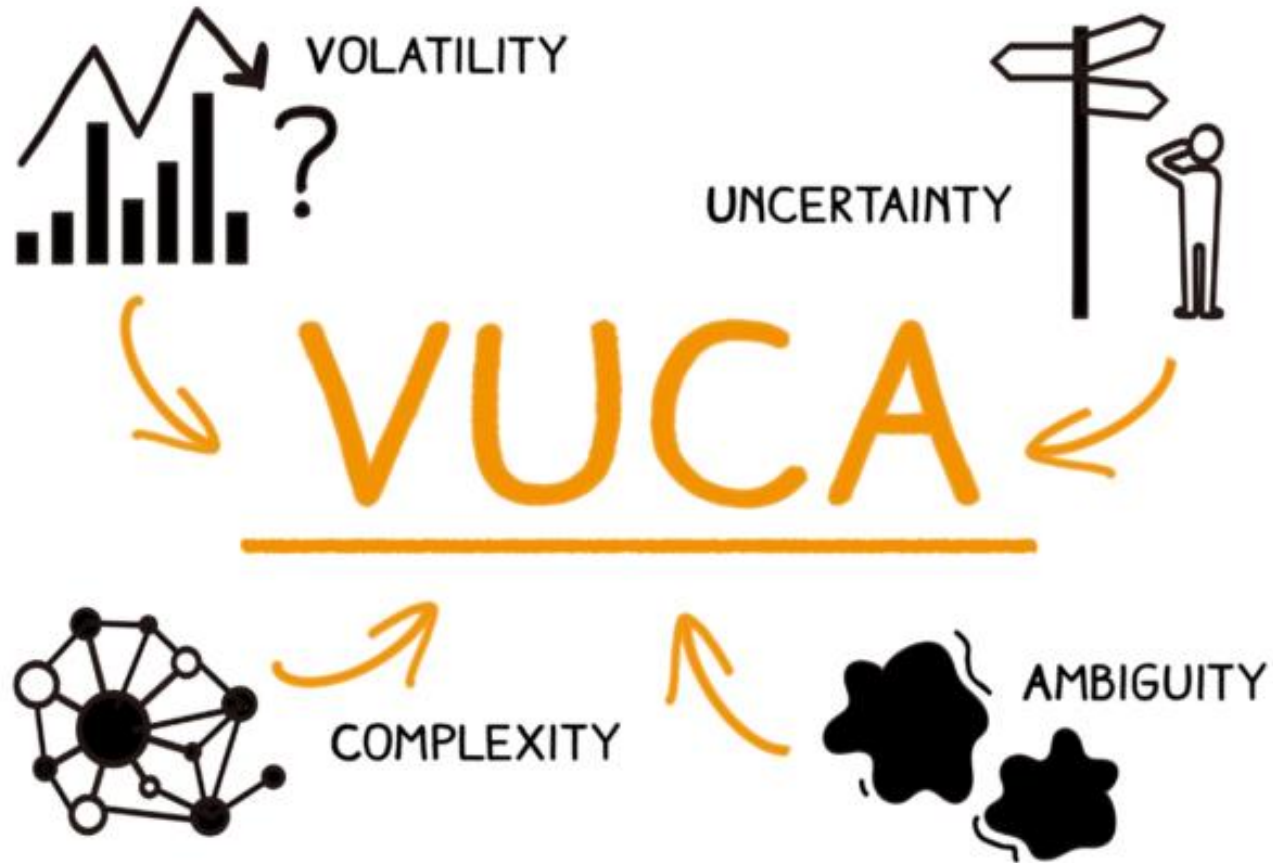
A close-up, low-angle shot of a person's feet in dark running shoes with red accents, stepping on a rocky and uneven path. The path is surrounded by dry, golden-brown grass and small rocks. The background shows a hazy, open landscape under a bright sky.

Loopt dat allemaal goed?

**Disrupties**



# VUCA



# Covid-19

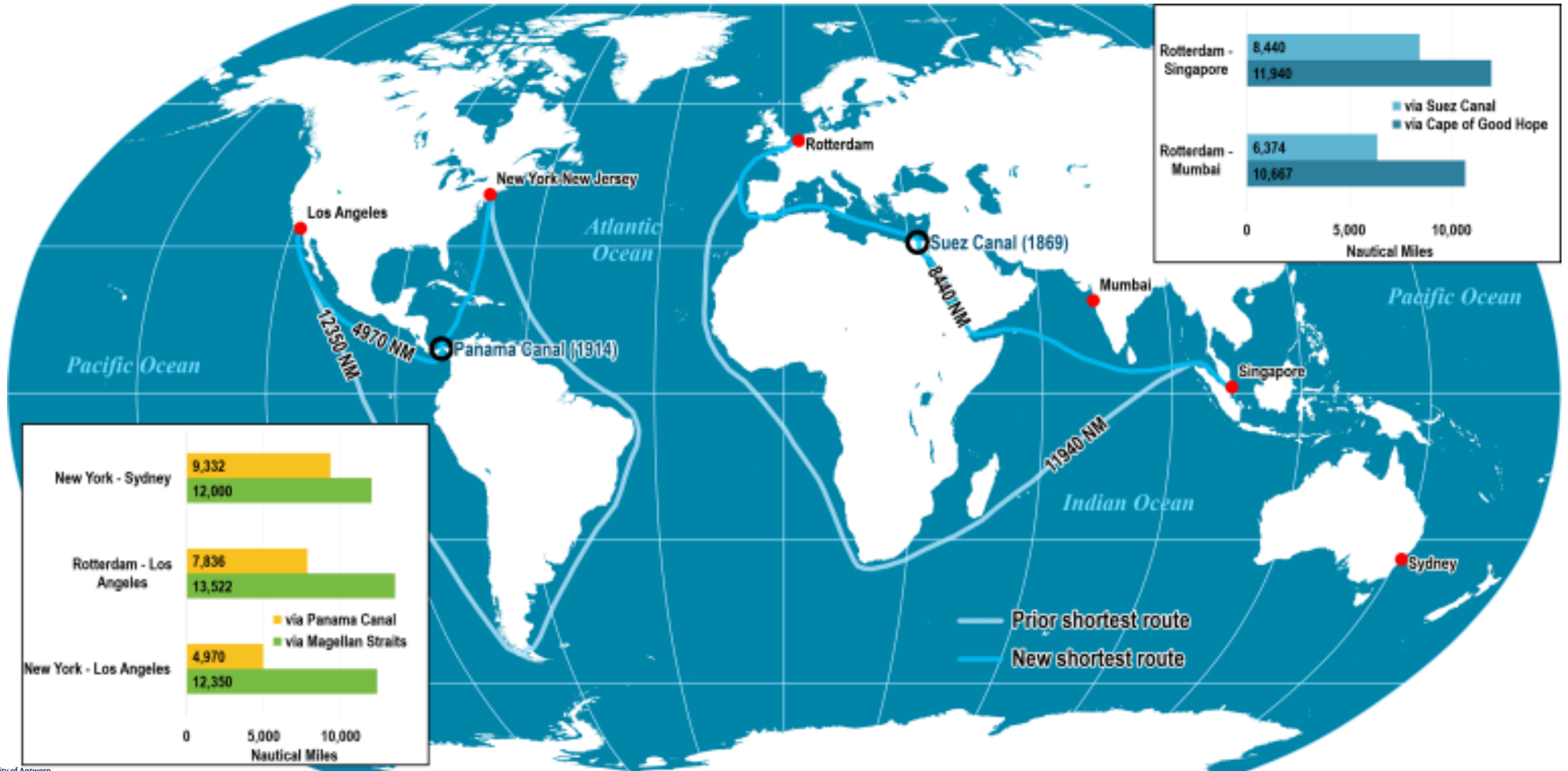


# Suez-kanaal geblokkeerd





# Suez-kanaal geblokkeerd



# Oorlog in Oekraïne



# Oorlog in Oekraïne



# Gevolg?

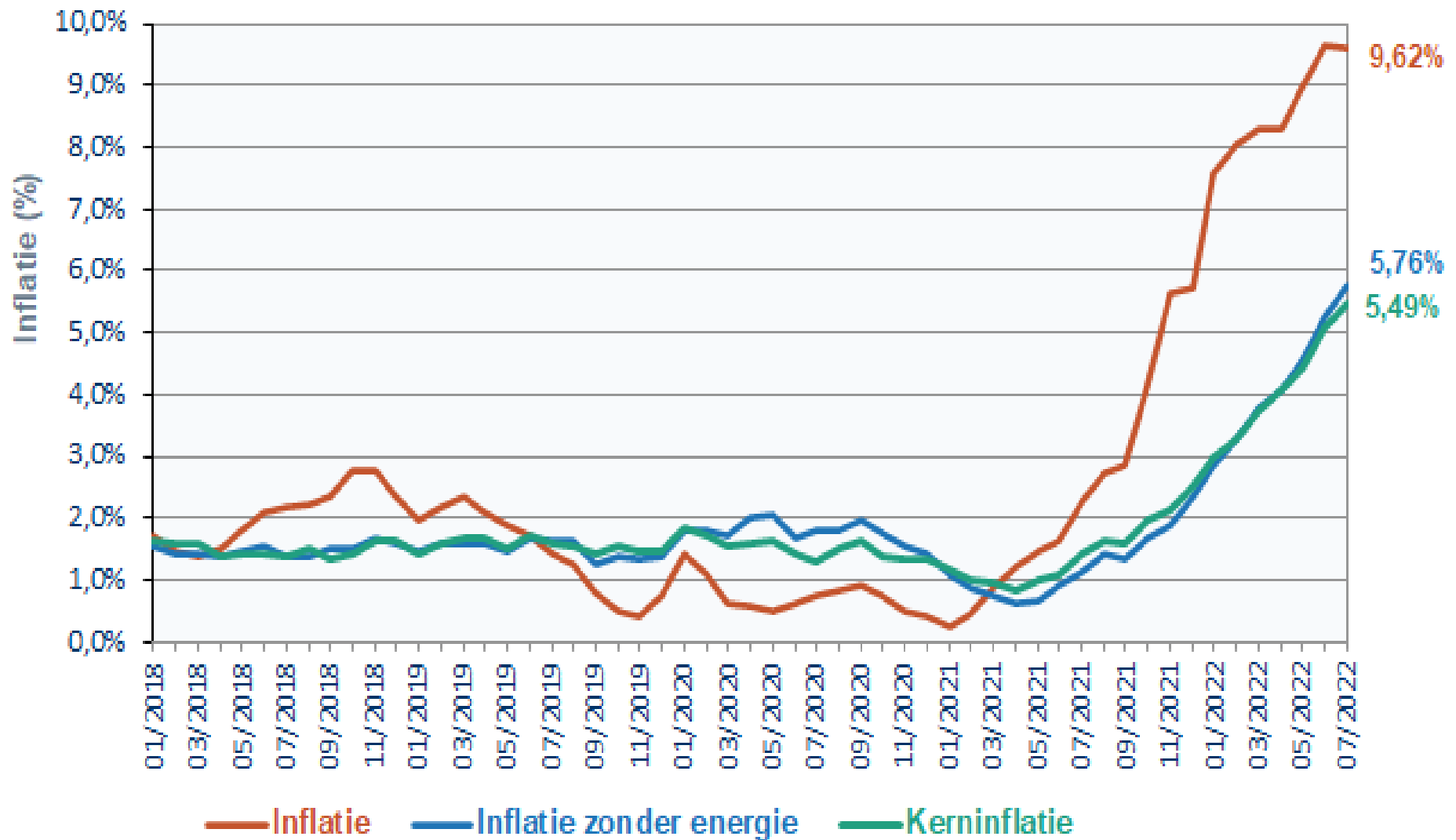


# Lege winkelrekken



# Inflatie

Kerninflatie en inflatie zonder energie



# Congestie





# Congestie





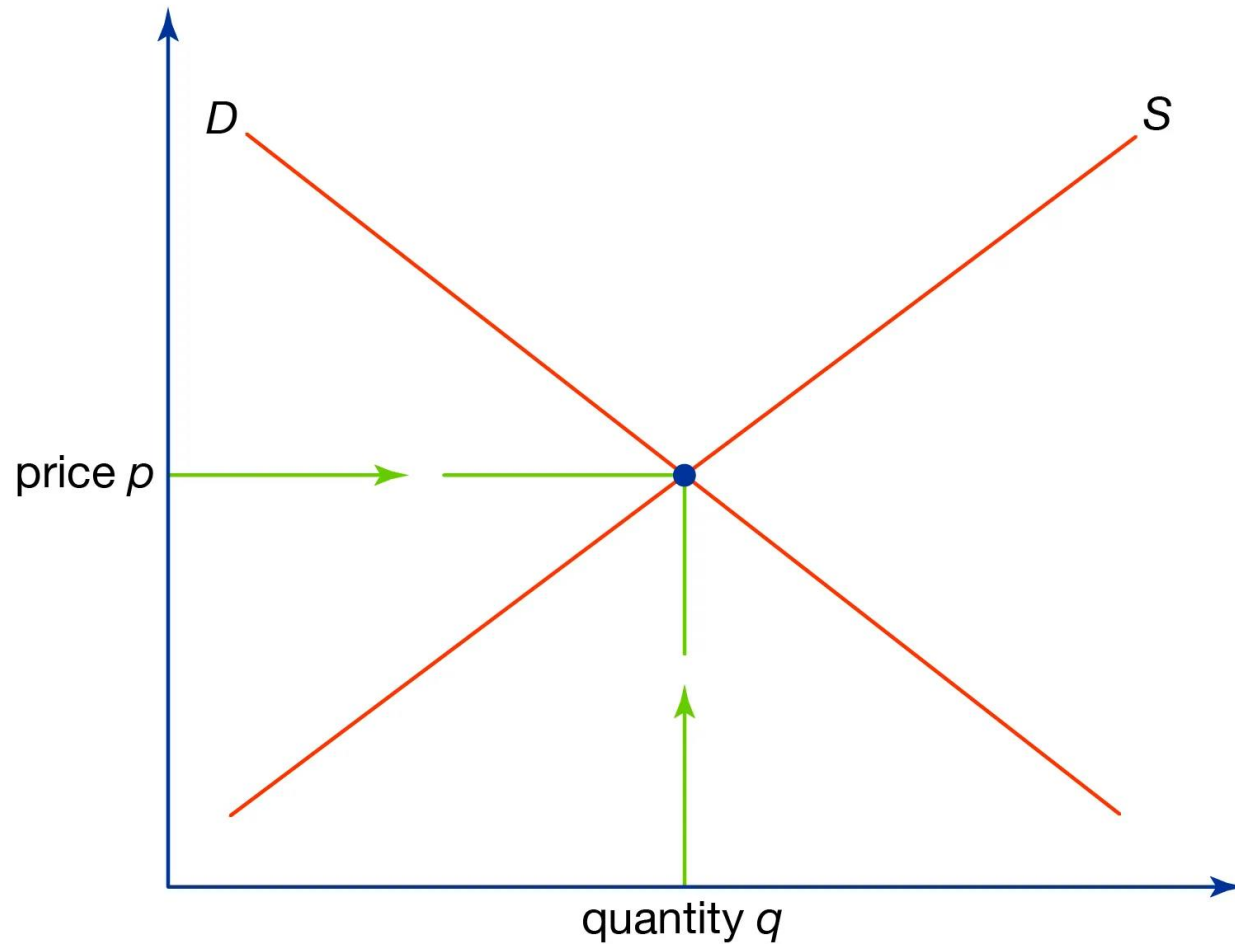
# Black swan



# Oorzaken en oplossingen

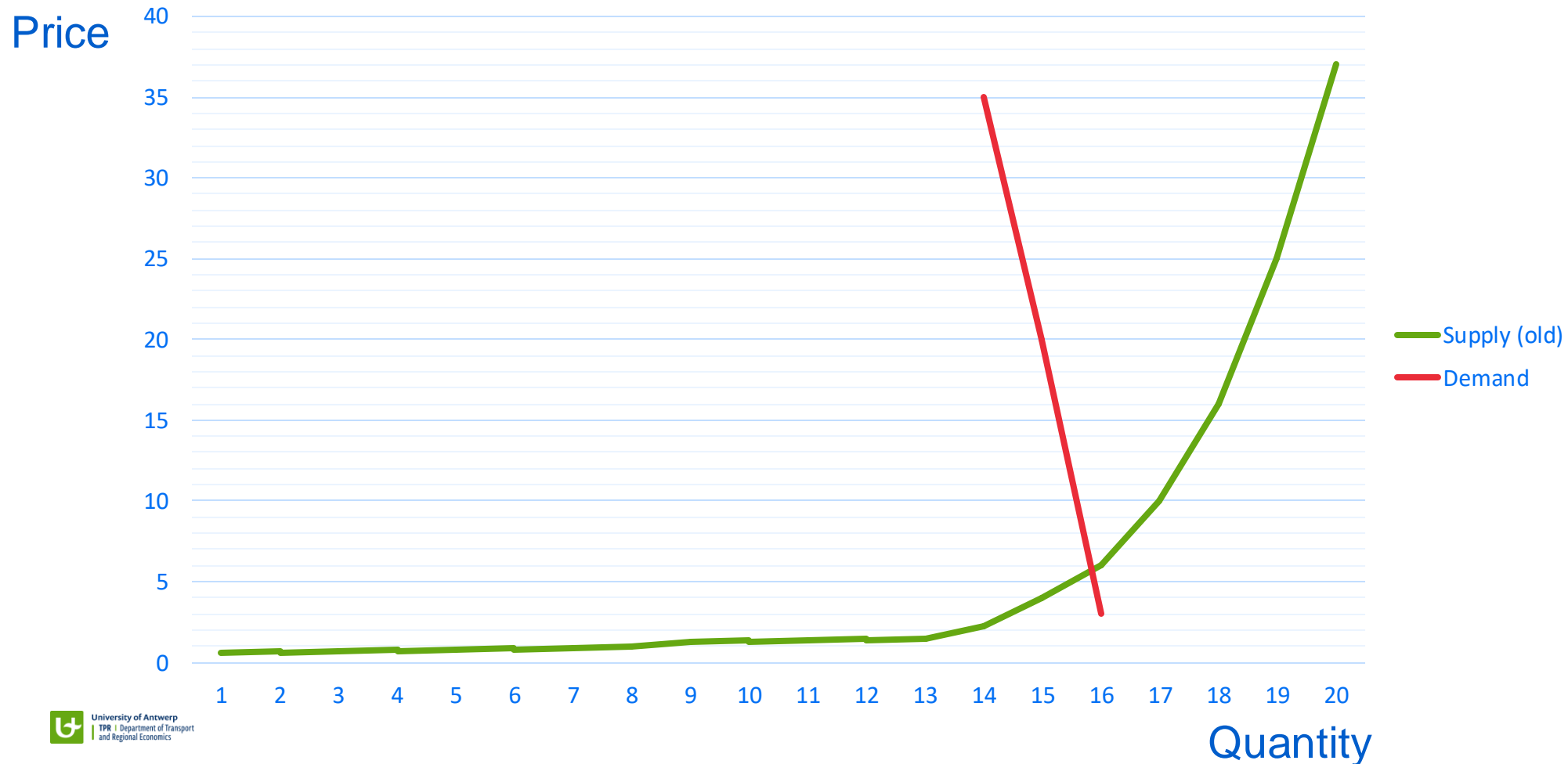
# Prijs evolutie in transport

## Supply and demand



# Prijs evolutie in transport

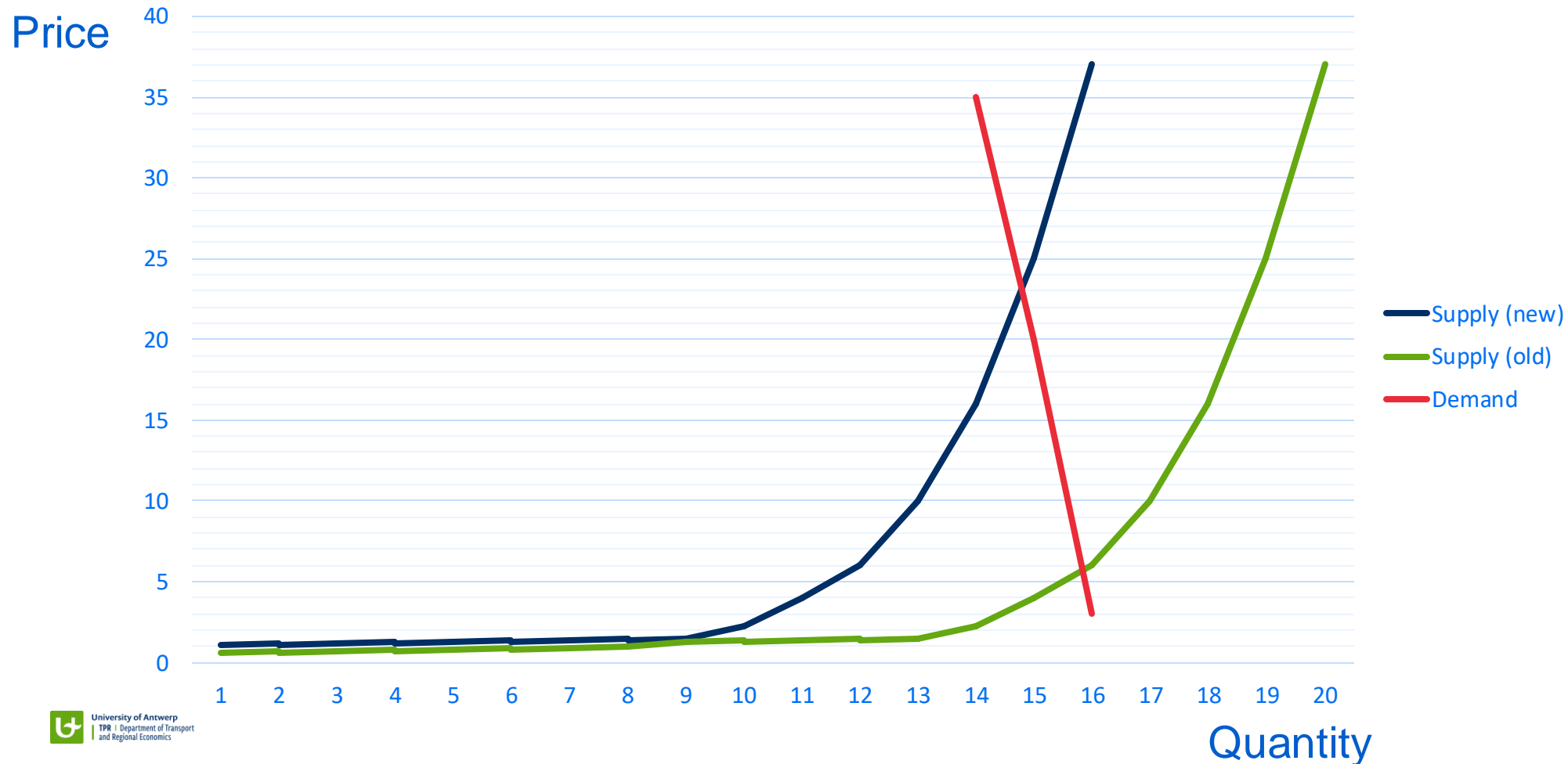
Effect van de elasticiteit



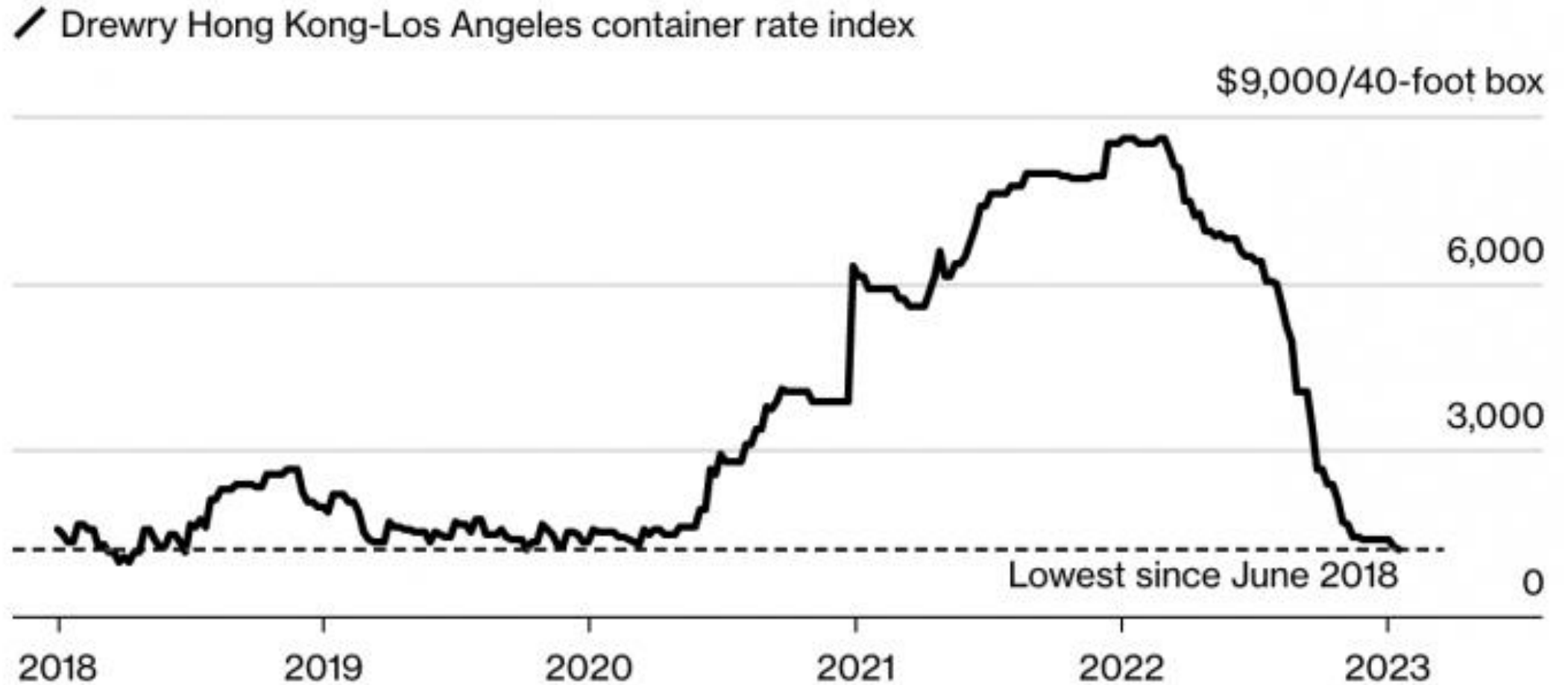


# Prijs evolutie in transport

## Supply and demand



# Prijs evolutie in transport



Source: Drewry Shipping Consultants, Bloomberg

# Op welke basis wordt beslist

Direct cost





# Op welke basis wordt beslist

Direct cost



Time cost



# Op welke basis wordt beslist

Direct cost



Time cost



External cost



# Doorberekenen externe kosten

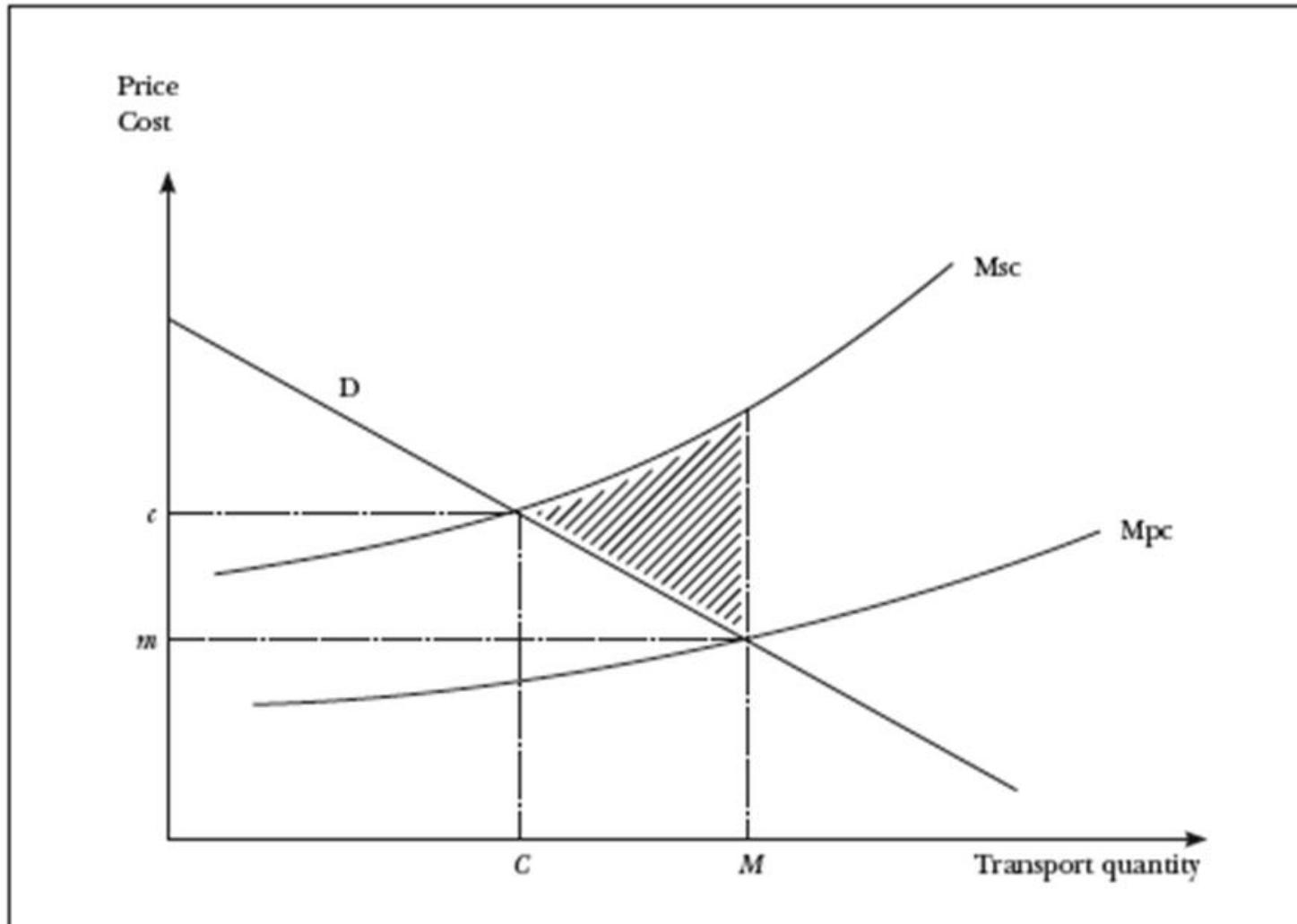


Figure 14.1: Market equilibrium and social optimum



**Dank je voor je aandacht**  
**Vragen? Antwoorden!**

