

Port of Antwerp

4. Mannheimer Transportrechtstag

Supply Chain Management in
Zeiten der Unsicherheiten

25. Juni 2019

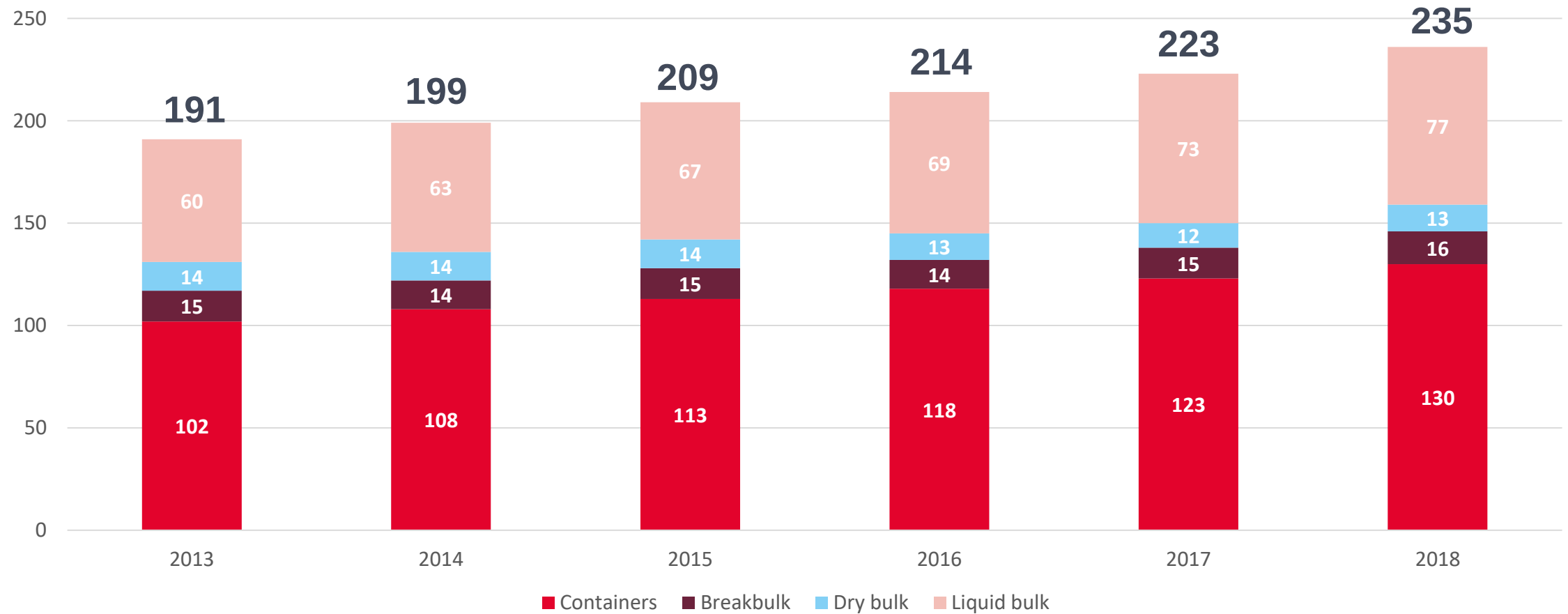


**Port of
Antwerp**



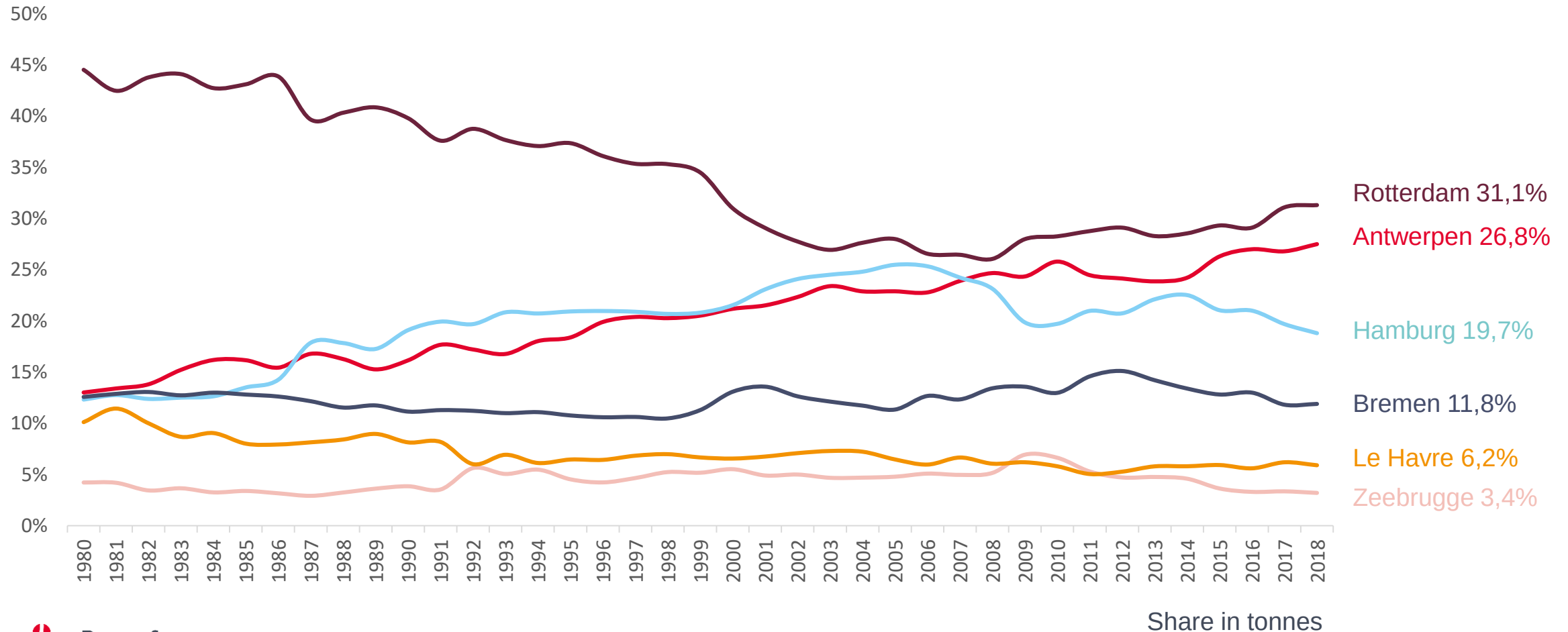
Sustainable growth

6th record in a row: 235 million tonnes of cargo in 2018



Sustainable growth

Antwerp gains European container market share year after year





Centrally located in Europe
Inland position

Antwerpen



Lever for a sustainable future

Belgium's biggest economic driver



235

Million tonnes of
maritime freight



12,068
hectares



20.7
billion €
added value



143,183
jobs



900
companies



4.8%
GDP

An aerial photograph of the Port of Antwerp, showing a large body of water in the foreground, a residential area in the middle ground, and industrial facilities along the river in the background. The text "The port of the future is smart, sustainable, innovative, accessible and safe." is overlaid on the image.

The port of the future is smart,
sustainable, innovative, accessible
and safe.

Lever for a sustainable future

5 strategic priorities for 2020



Sustainable growth



**Port of
Antwerp**

Container Gateway

Ready for the day after tomorrow

- Nachhaltiges Wachstum
- 11 Millionen TEU / + 5,5 %
- Erweiterung der Umschlagskapazität



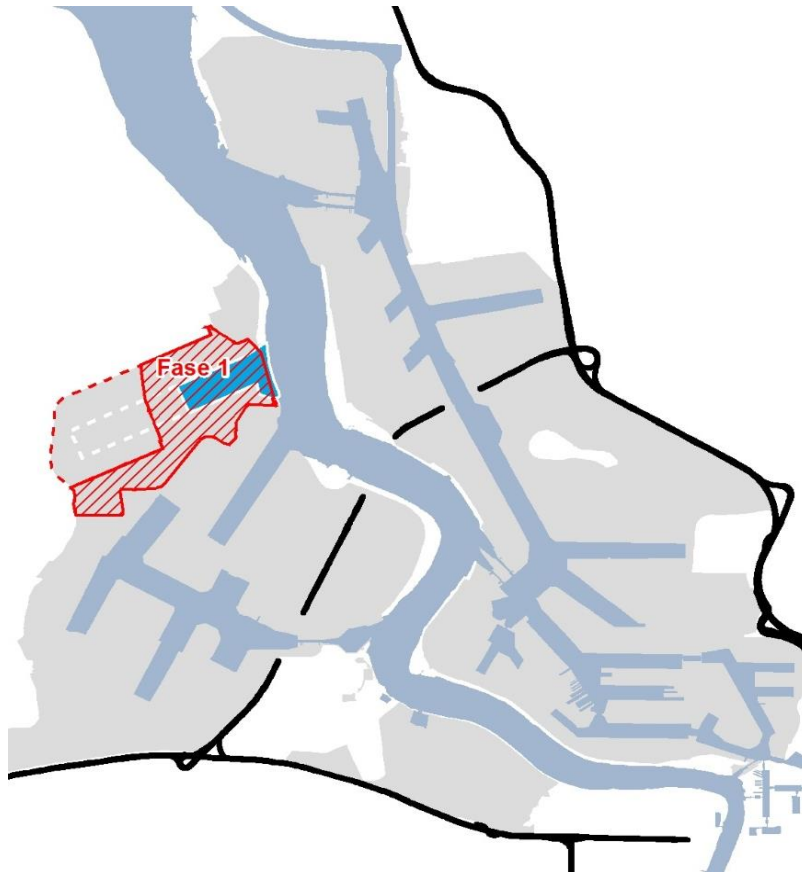


TEU growth
expectations
+1,8 - 3,1%

Container traffic worldwide will keep on growing. More global trade means more container traffic means more container capacity is a necessity.

Container Gateway

Zusätzliche zu bauende Containerkapazität



International Omni channel service providers



6,3 million m² covered warehouses



Container Gateway

Assets für Omnichannel-Logistics



**Verfügbarer
Platz**



**Schnelle,
zuverlässige und
kostengünstige
Luft- und
Bahnanbindung**



**Tor zum
europäischen
Konsumenten-
markt**



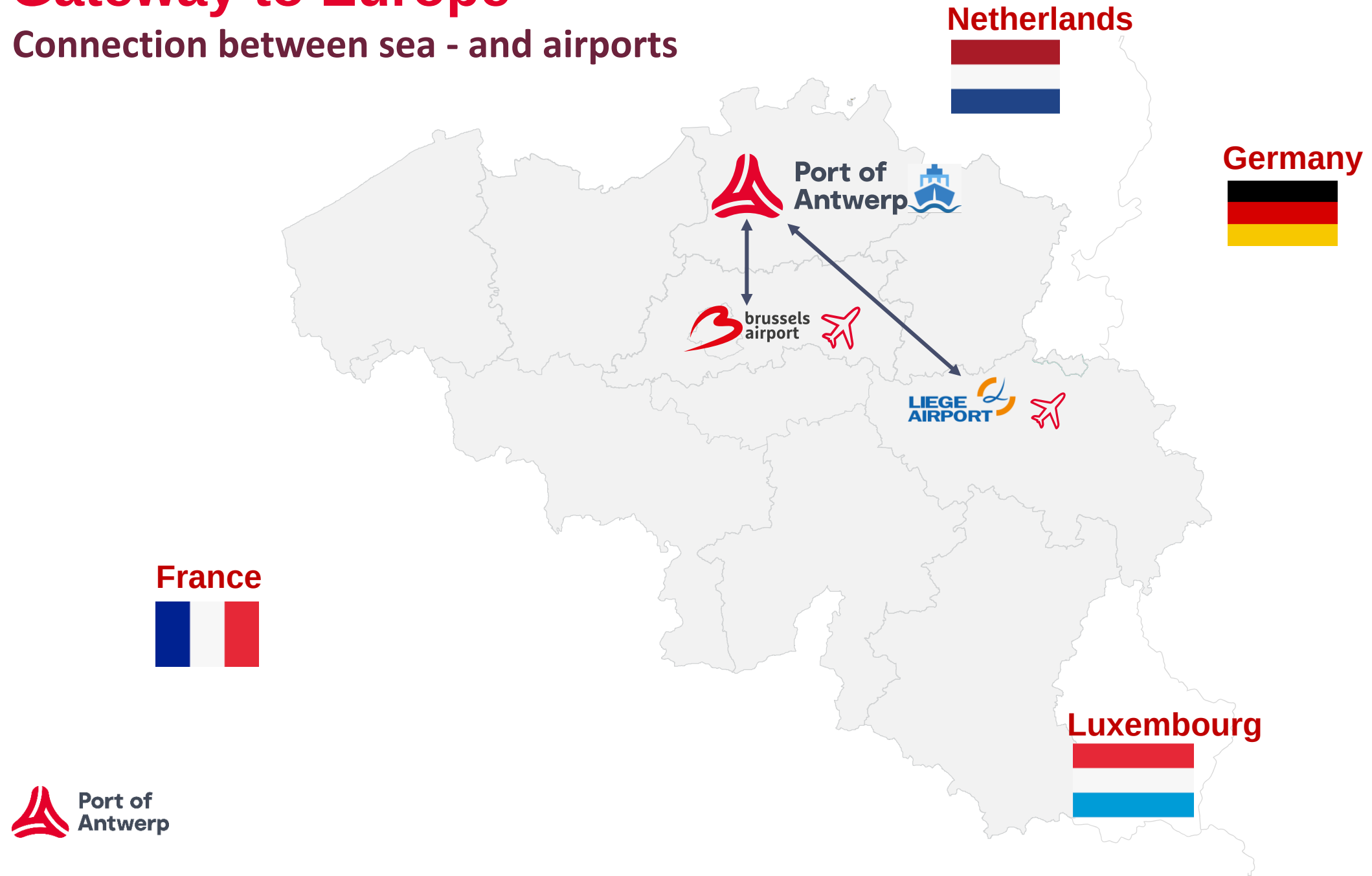
**An der
Schnittstelle der
Last-Mile Player**



**Verzollung nach
Be-Gate**

Gateway to Europe

Connection between sea - and airports



Chemicals Hub

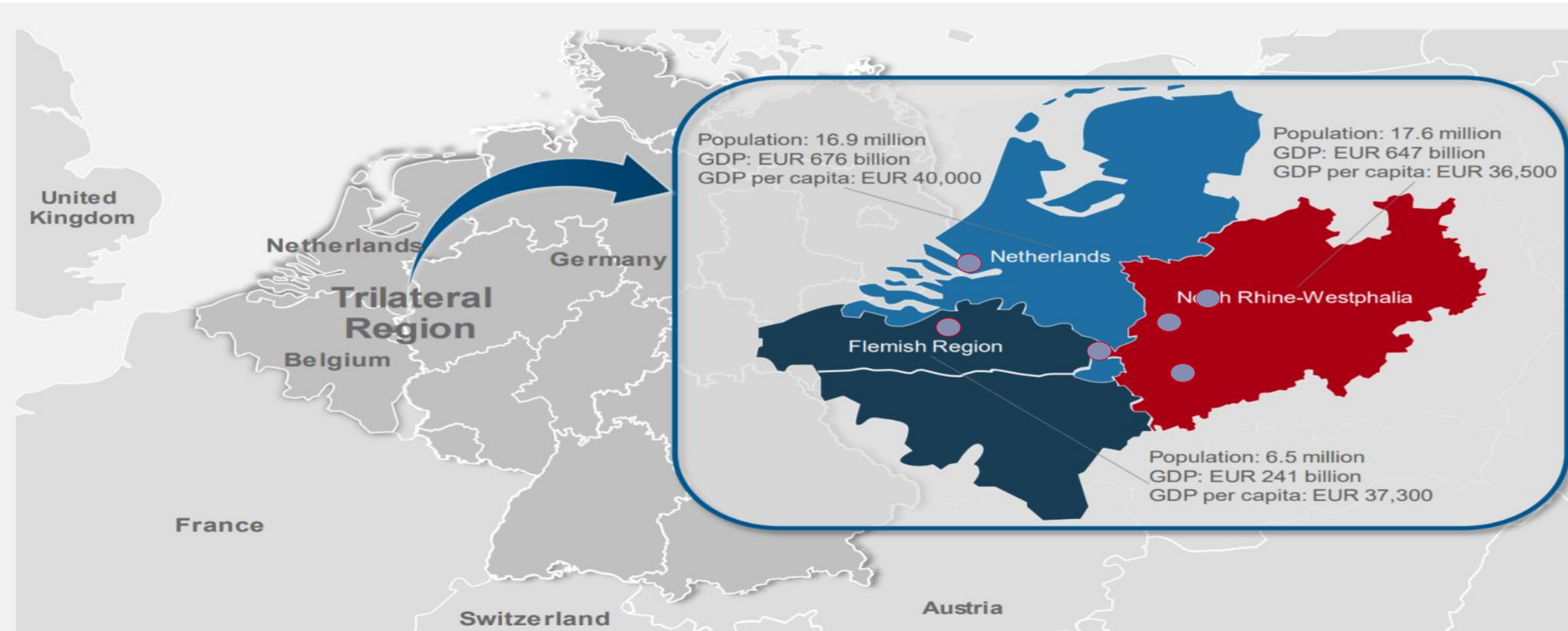


Chemicals Hub

2018: Top-Investitionsjahr mit einem Gesamtvolumen von 2,3 Milliarden Euro.



The Port of Antwerp within the trilateral chemistry region



Mobility

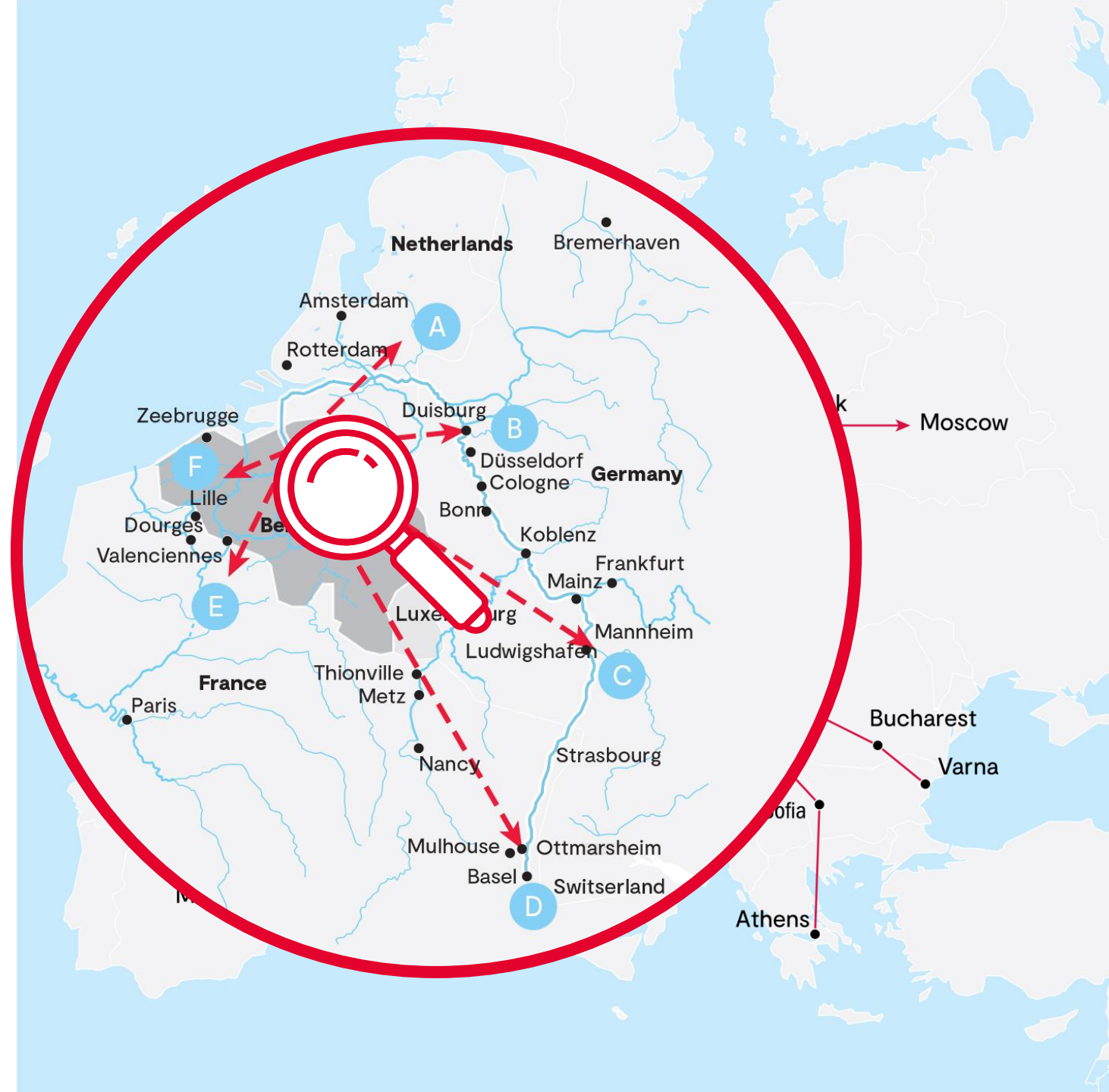


Port of
Antwerp

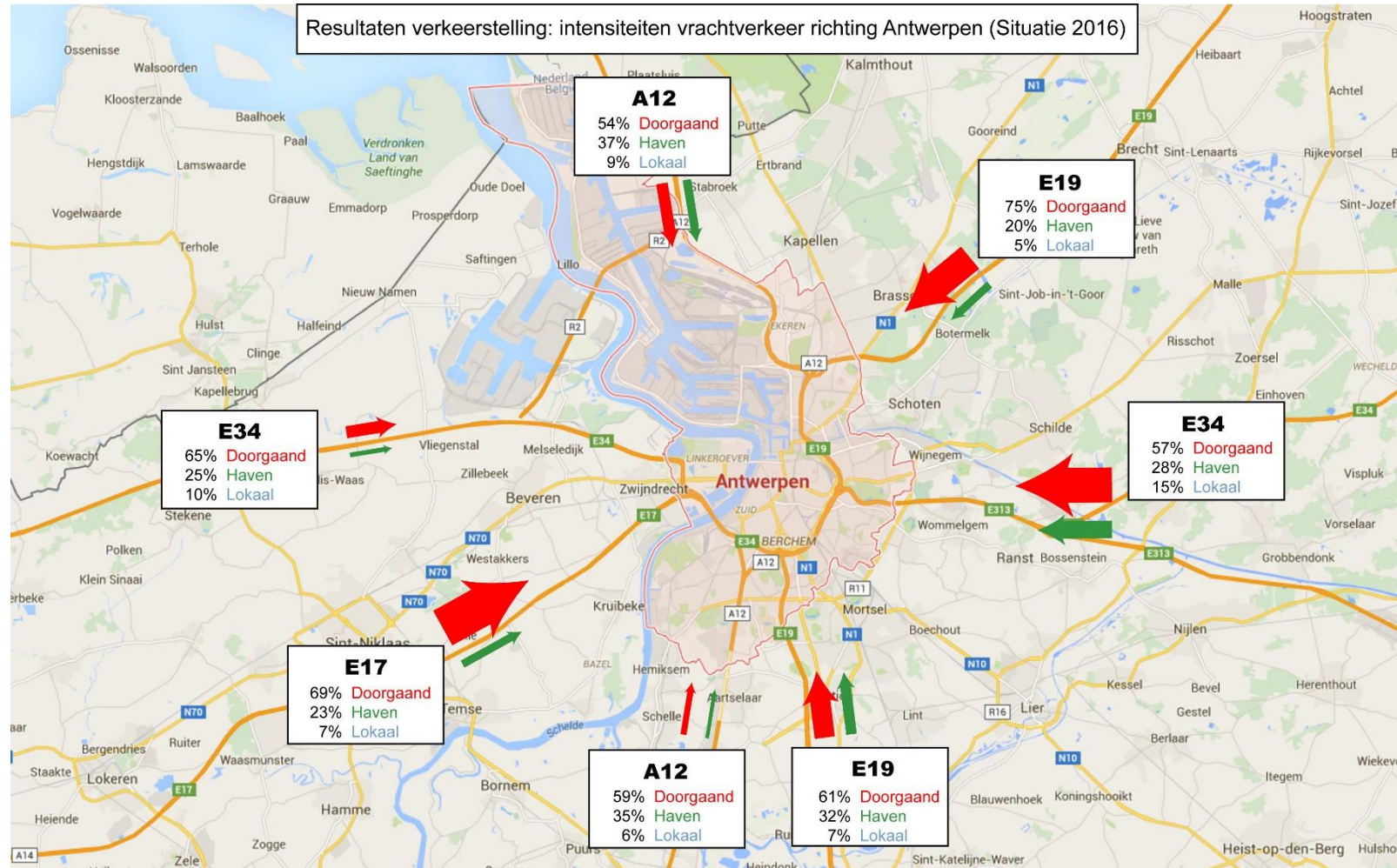
Centrally located in Europe

Intermodal connections
by road - rail - barge

- A** Netherlands
6 to 18 hours
- B** Lower Rhine region
18 to 24 hours
- C** Middle Rhine region
24 to 72 hours
- D** Upper Rhine region
72 to 96 hours
- E** Northern France
24 to 36 hours
- F** Belgium
4 to 18 hours



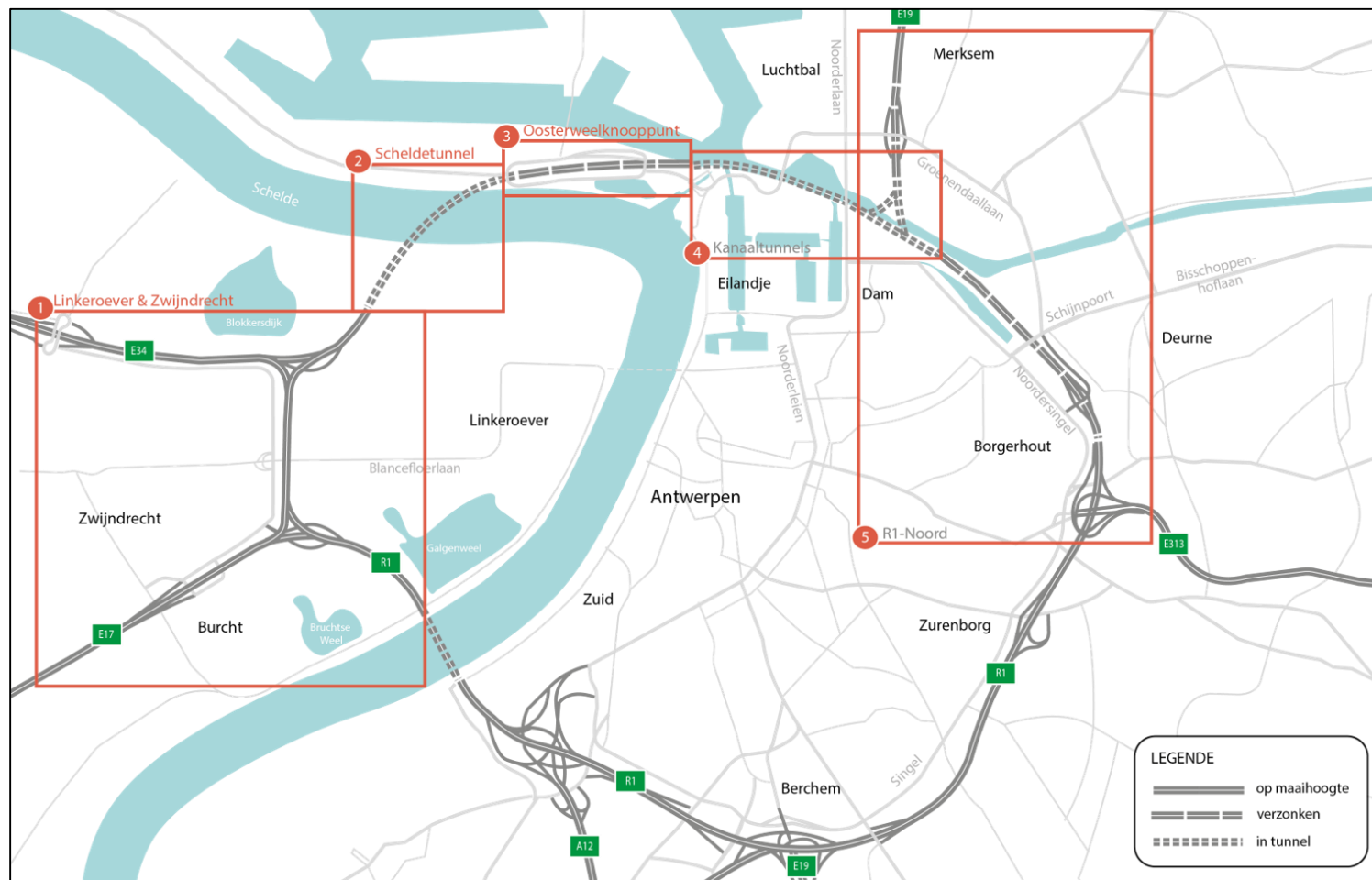
Congestion is increasing but ... it is essentially traffic transitting area



Mobilität rund um den Hafen Antwerpen

Oosterweel-Verbindung

- Erschliessung des Antwerpener Rings für einen zügigen Transit
- Das Bauwerk des Jahrhunderts fängt in Juli 2019 an!





Construction
site of the
century

July 2019

The time is now

Was Sie heute
sehen...



Modal split Ambitionen Port of Antwerp



Port of
Antwerp

Mobilität: Güterverkehr

Ambitionierte Ziele für die Verkehrsverlagerung 2030: mehr Schienen- und Binnenschifffahrt



2018

36%

2030

42%



2018

8%

2030

15%



2018

55%

2030

43%

Binnenschifffahrt:

**Ein reibungsloserer
Durchsatz**



**Port of
Antwerp**



Gute Anbindung an das europäische Hinterland



99,3 Millionen Tonnen Fracht per Binnenschiff im Jahr 2018

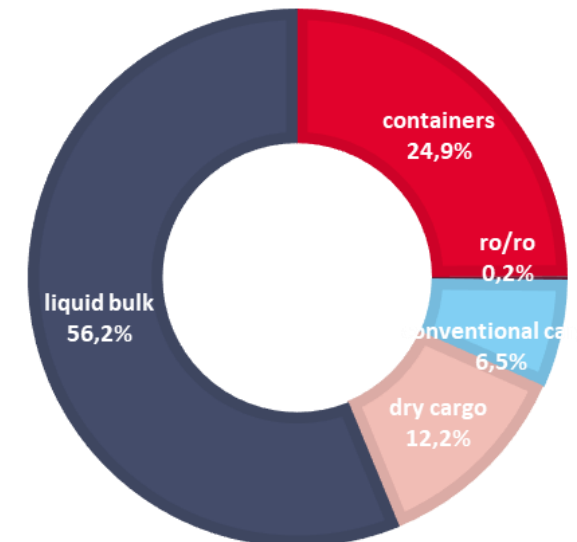
1.000 Binnenschiffe im Durchschnitt pro Woche

240 Container-Shuttles pro Woche zu **90 europäischen Standorte**

110 Binnenschiffahrtsunternehmen mit regelmäßigen Binnenschiffsanrufen, davon **36 Containerschiffahrtsunternehmen**

Alle Container-Schiffsabfahrten:
<http://www.portofantwerp.com/en/connectivity>

TOTAL BARGE VOLUME 2018

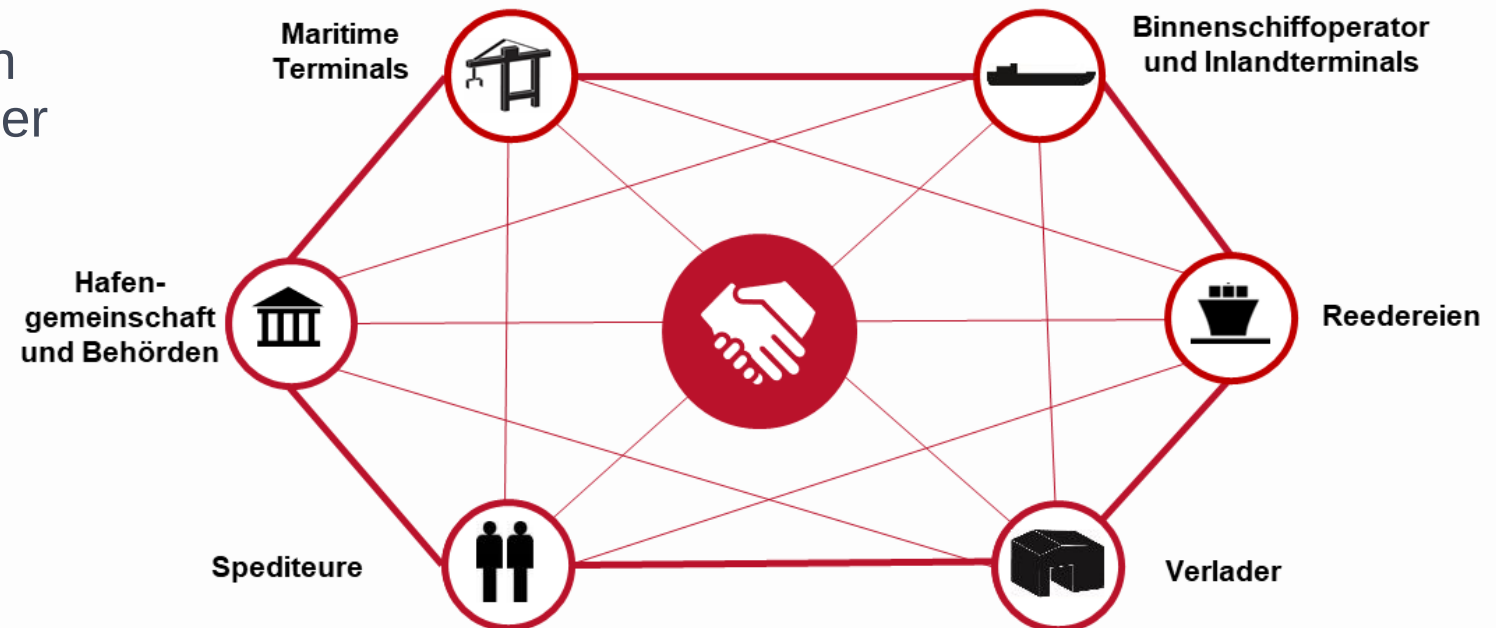


Aktionsplan Containerbinnenschifffahrt

Kräftebündelung

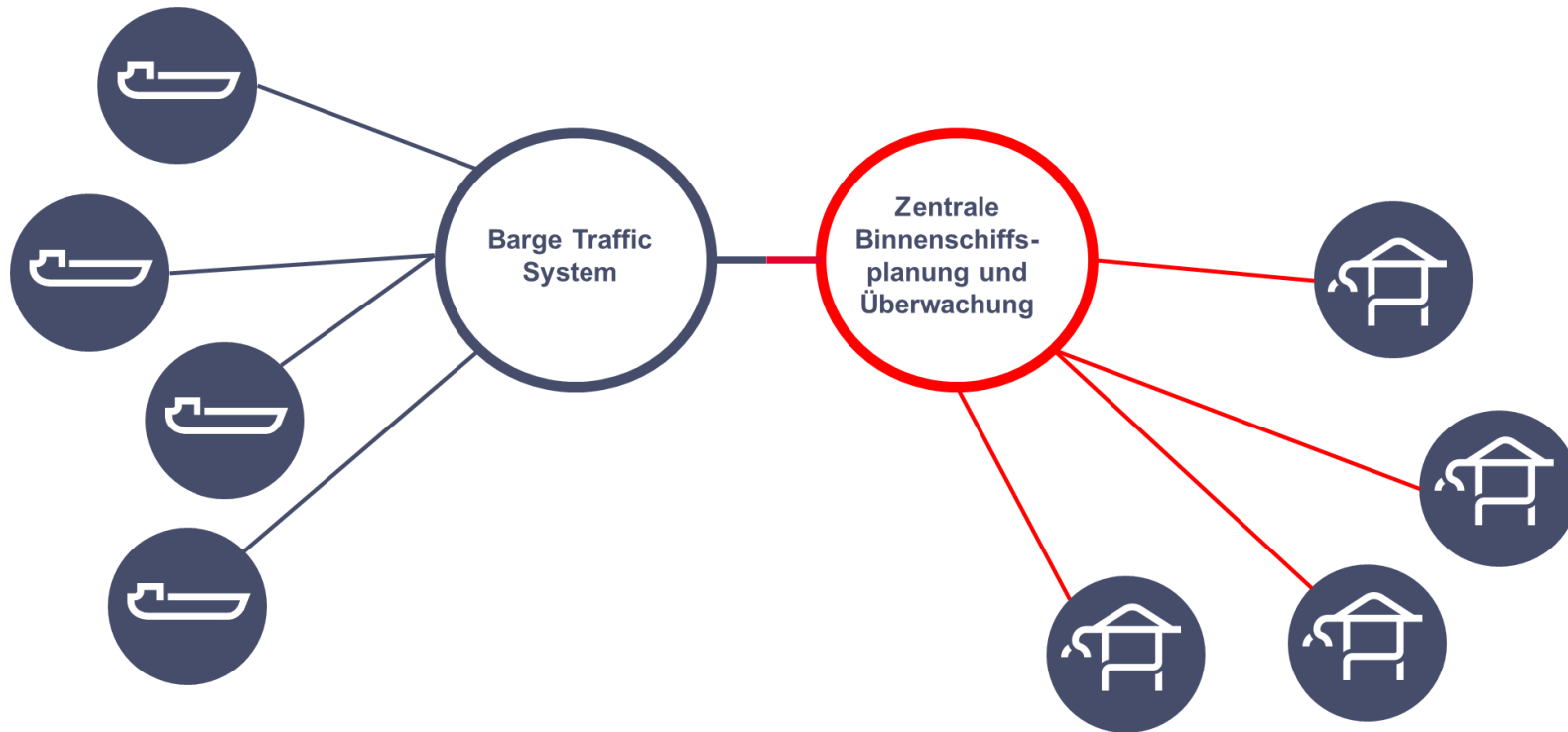
2 Pilotprojekte:

- Zentrale BiSchi-Planung und – Überwachung (Oktober 2018 – Januar 2019)
- Bündelung kleine Frachtmengen und min. Call Size 30 (November 2018 – Juni 2019)



Collaboration & Planning

Zentrale BiSchi-Planung und –Überwachung



Großer Pilotprojekt von
PSA, MPET & DP World

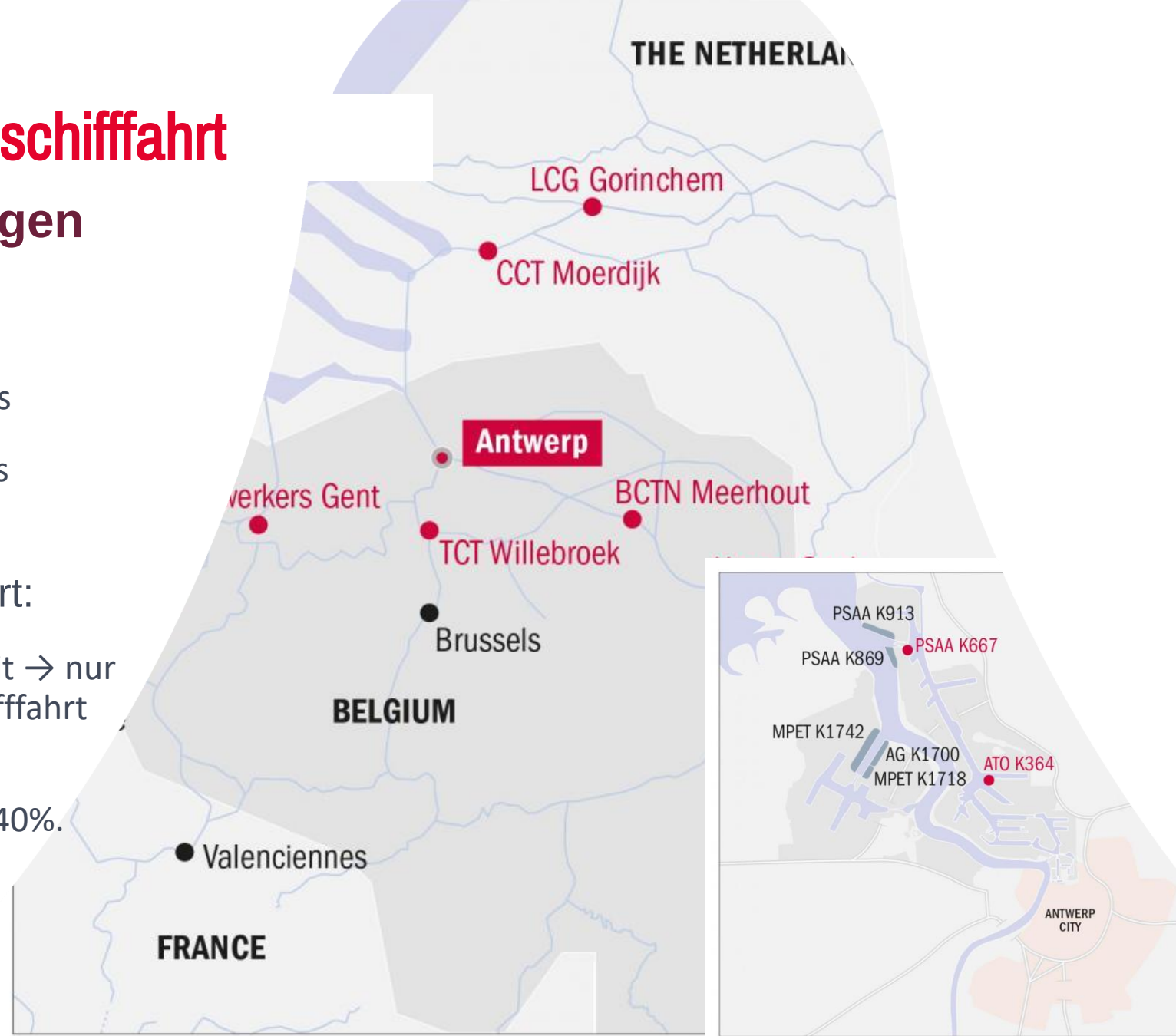
Positive Bewertung durch
die teilnehmenden
Partner → **strukturelle
Implementierung**

Weitere Schritte:
24/7 barge scheduling
& monitoring auf
hafenweiter Basis

Aktionsplan Containerbinnenschifffahrt

Bündelung kleine Frachtmengen

- Pilotprojekt:
 - November 2018 → min. callsize 20 moves
 - December 2018 → min. callsize 30 moves
- Anstrengungen der Binnenschifffahrt:
 - Schnelle Anpassung und Zusammenarbeit → nur 4% des Gesamtvolumens der Binnenschifffahrt über die ausgewählten Hubs
 - Reduzierung der Anzahl der Anläufe um 40%.
- Es sind zusätzliche Maßnahmen erforderlich.



Schienenverkehr:

Hochfrequente Verbindungen & schnelle Abläufe im Hafen



Port of
Antwerp

Leistungsstarkes europäisches Schienennetz von/nach Antwerpen



24 Millionen Tonnen Fracht pro Jahr auf der Schiene

200 wöchentliche Container-Rail-Shuttles von/nach Antwerpen und von/zu **70 Standorte** in 20 Ländern

Kernziel 2019:

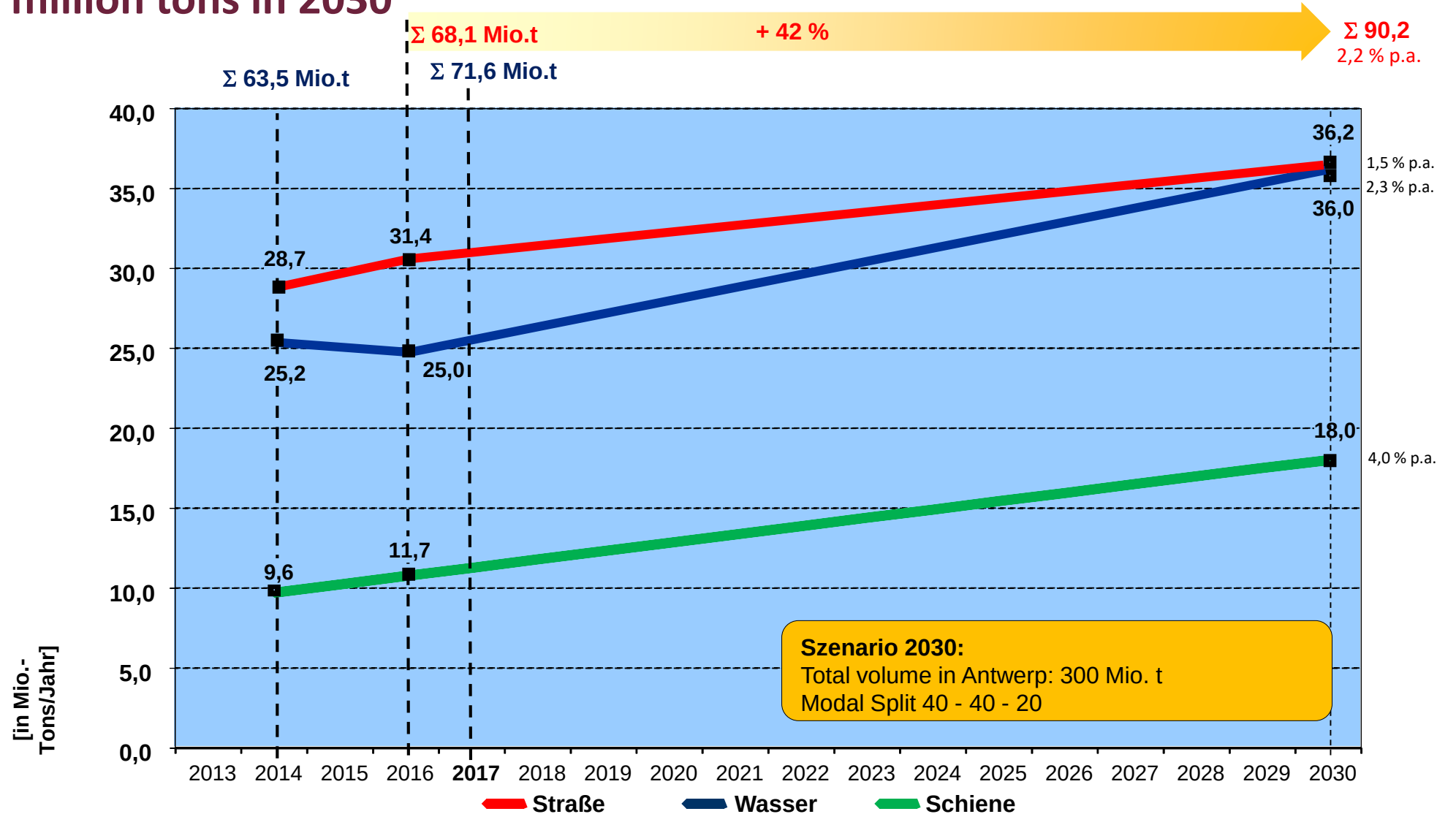
- Hochfrequente Bahnverkehre in das/aus dem Rhein-Ruhr-Gebiet
- Regelmäßige Shuttles zu/von wichtigen Wirtschaftszentren

Alle Container-Schienenverbindungen:
<http://www.portofantwerp.com/en/connectivity>

Cargo flows between Germany and Antwerp

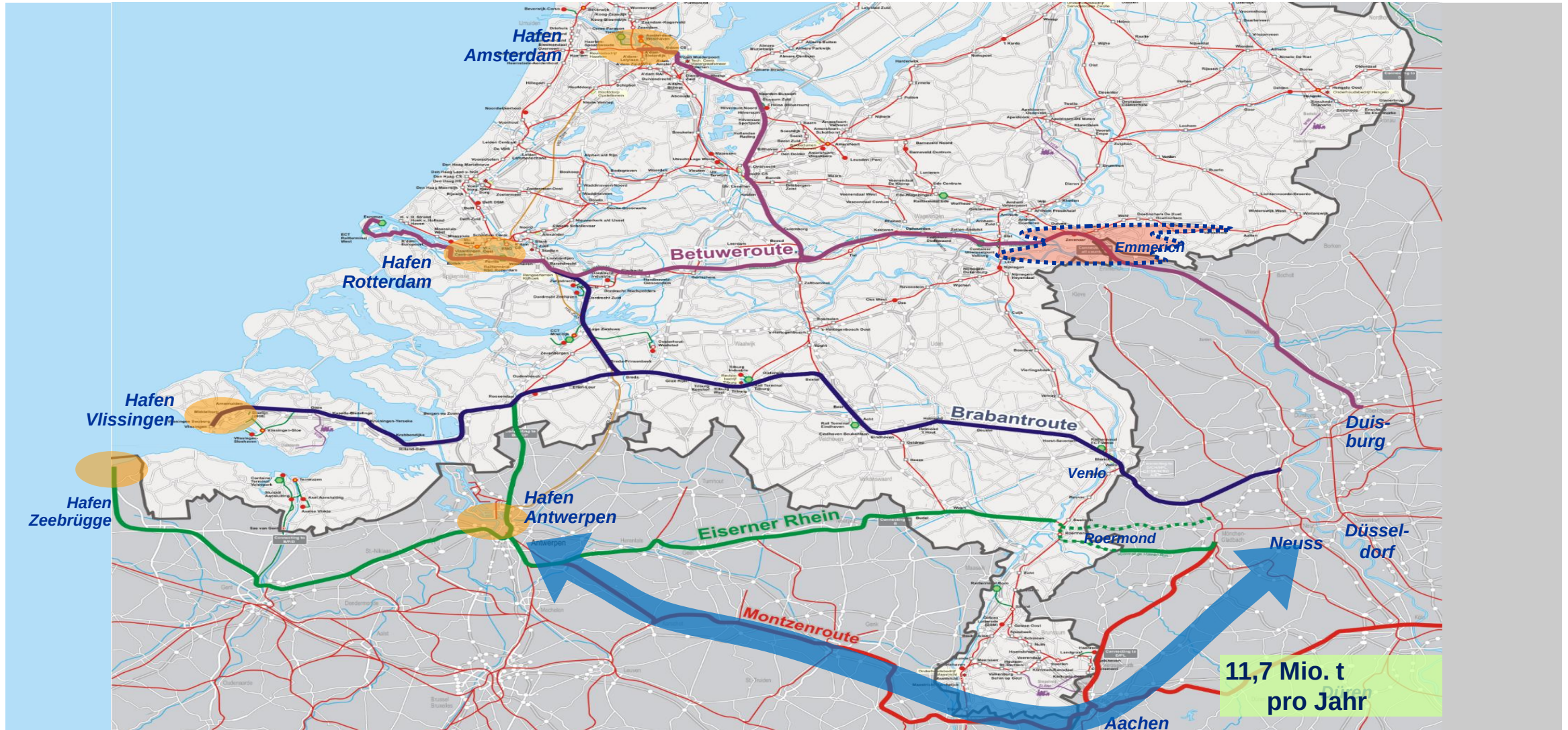
Prognosis 90 million tons in 2030

34



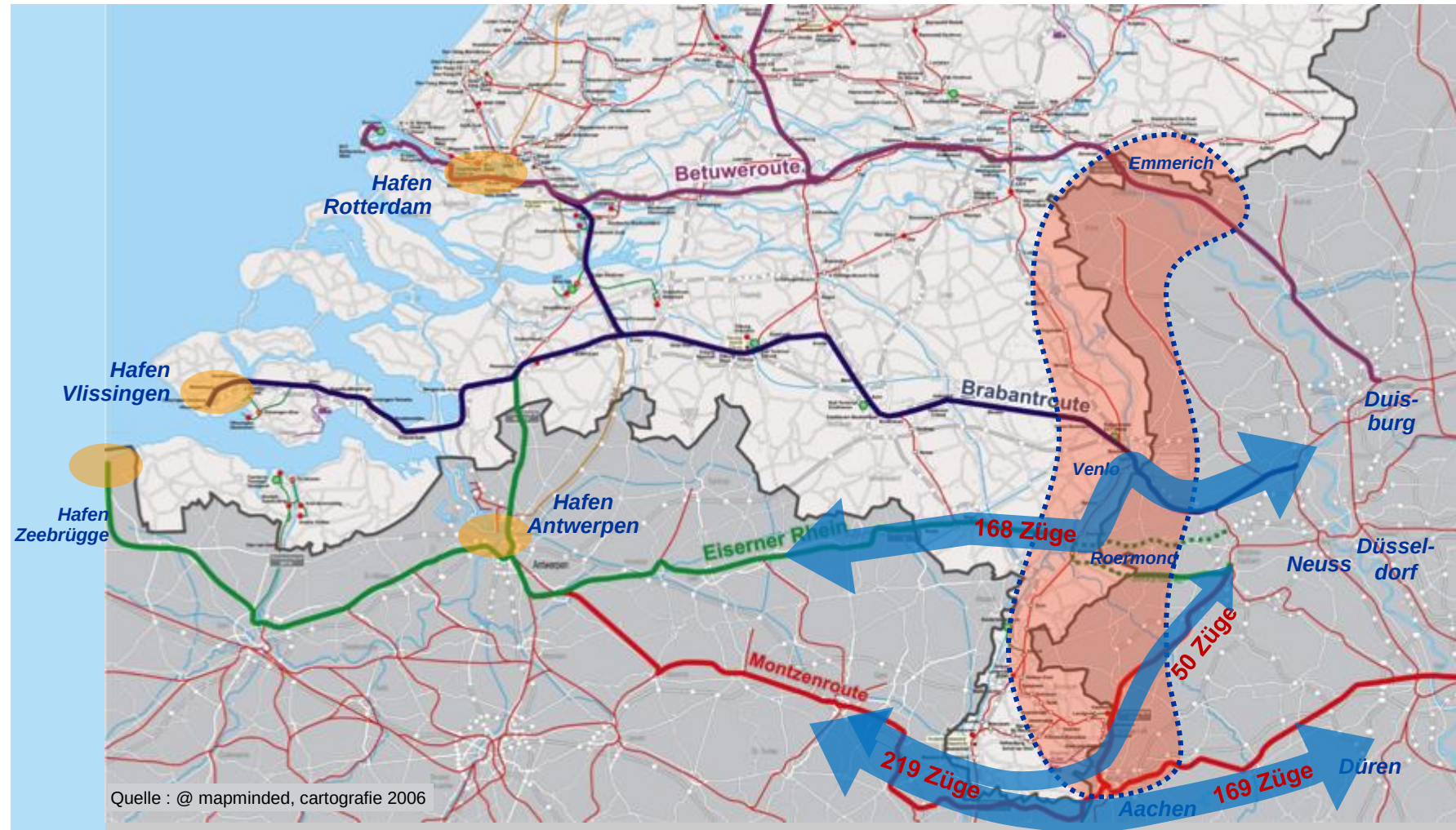
Schienengüterverkehr Hafen Antwerpen-Deutschland 2016

35



Rail traffic Port of Antwerp - Germany

3RX version



**Rail Traffic System
ICT platform**

RAILPORT

- Leistungsfähigkeit der Hafeninfrastruktur
- Optimierung der Hafenbahnkapazitäten

Last mile

- Optimierung Bahnverkehr auf den Terminals
- Aktive Koordination der Bahnaktivitäten
- Konsolidierung

Rail connections
Unterstützung neuer Shuttles
im Hinterland

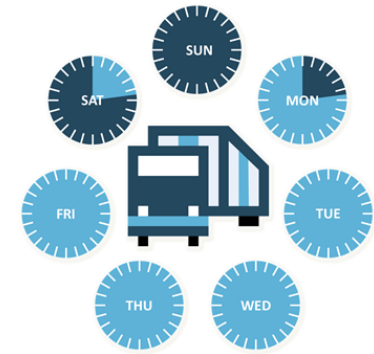
Straßenverkehr:

Effizienterer Transport durch Nachtlogistik



Port of
Antwerp

24/5 Öffnung von Containerterminals und Depots



- MPET
- Antwerp Gateway
- S11/Medrep
- EDS

+ PSA: ab dem 3. Juni 2019

Partner für UK-Verkehre

Brexit: Wir kümmern uns darum.

- Großbritannien ist **zweitgrößter** Seehandelspartner Antwerpens
- Gateway für Englandverkehre mit NRW
- Neuer Vertreter in Großbritannien und Irland
- **Taskforce** mit Vertretern der Hafengemeinschaft, Zoll und Amt für Sicherheit in der Lebensmittelkette



Transition & innovation



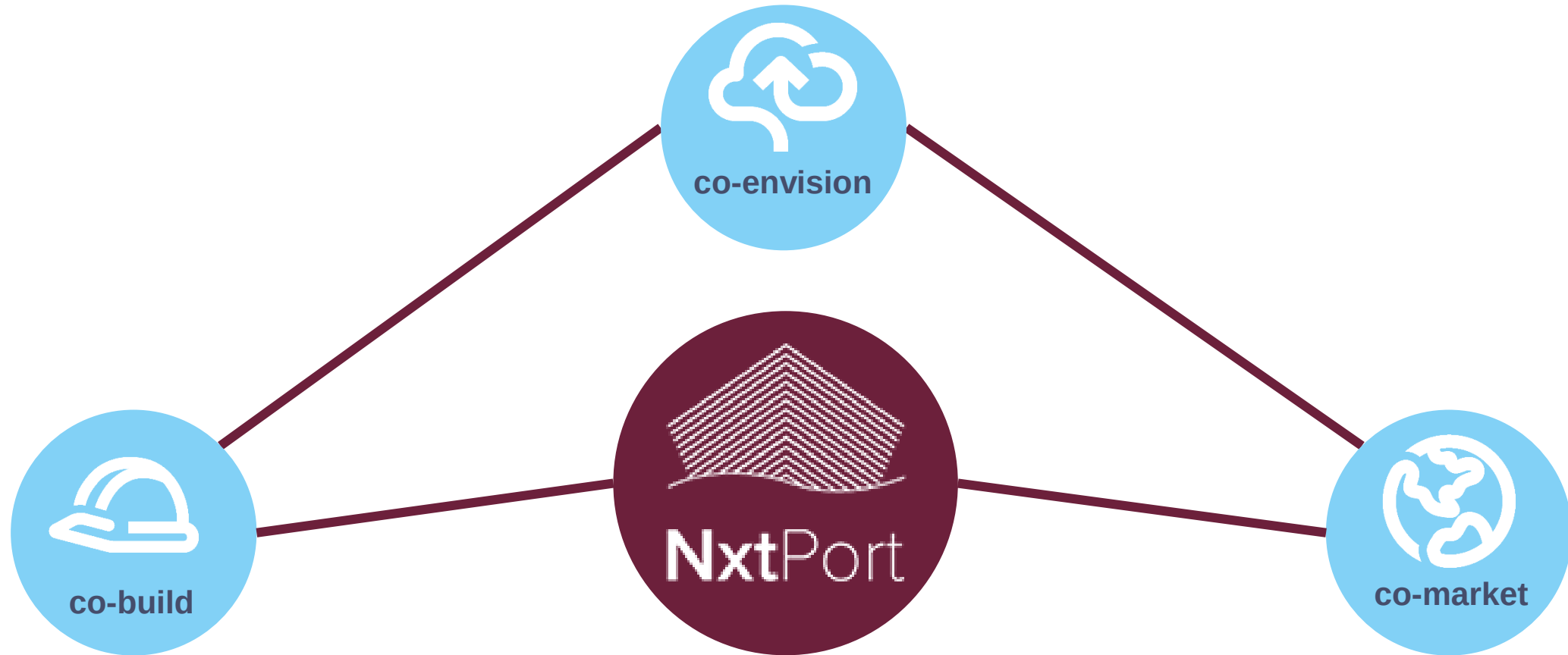
Port of
Antwerp



Digital transition as lever to a
sustainable port of the future.

Transition: digital transition

Nxtport as central data platform

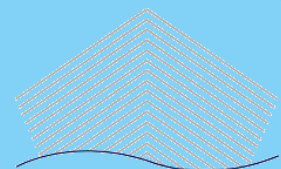


Transition: digital transition

Key role for Port of Antwerp as community builder



PORTXL



NxtPort



CHAINPORT



Innovation for industry,
logistics and smart cities



**Port of
Antwerp**



Port of Antwerp is fully engaged to
energy transition and circular
economy

Investments
2018 - 2021

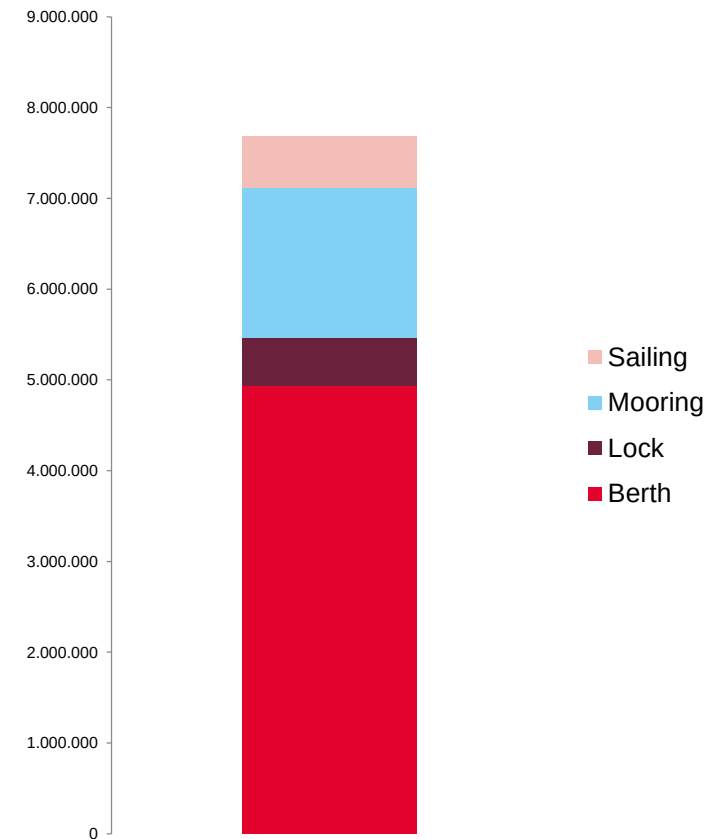
€ 35 mio

Transition: energy transition

Port of Antwerp first in Europe with on-shore power supply

- 70% of vessel emissions occurs at **berth** (CO₂, Sox, Nox, PM)
- **Up to 36% reduction potential**
- Need for pre-equipped vessels
- First focus on high-potential cases: **port-wide roadmap** for future roll-out in development

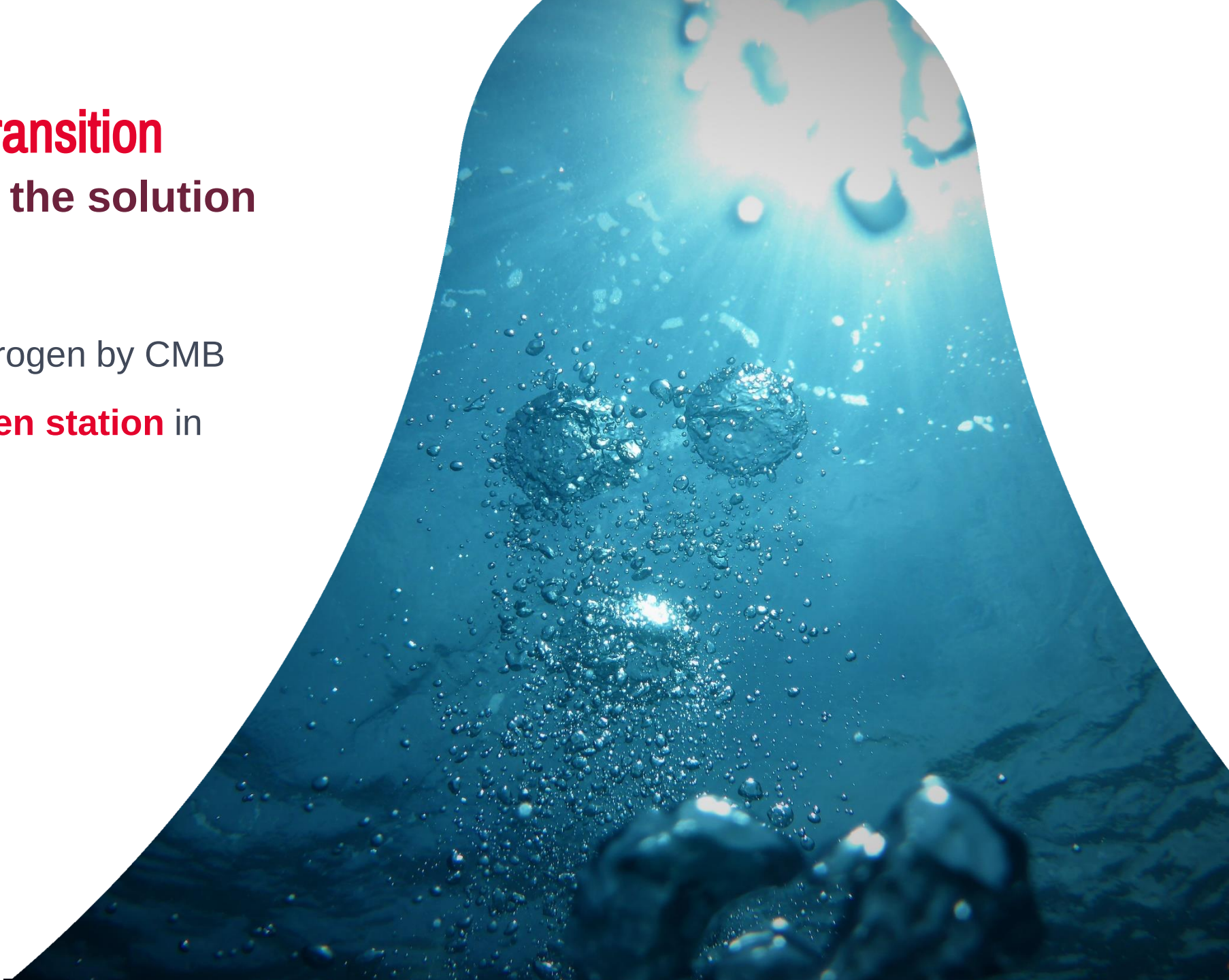
Vessel NOx emissions (kg)



Transition: energy transition

Hydrogen as part of the solution

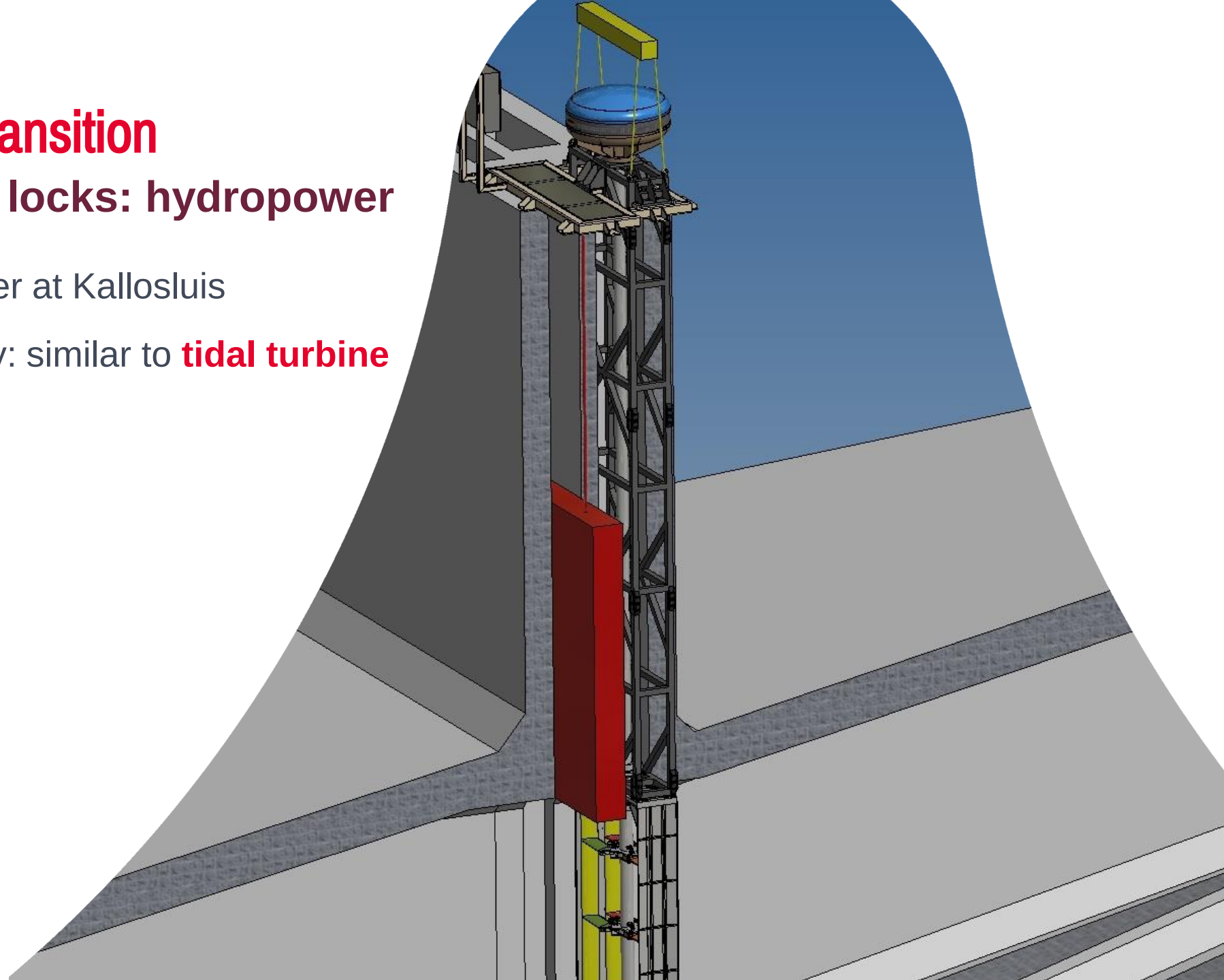
- Multifuel port
- **Hydroville** boat on hydrogen by CMB
- Next step: **first hydrogen station** in the Port of Antwerp



Transition: energy transition

Energy-efficient sea locks: hydropower

- **Pilot project** hydropower at Kallosluis
- Hydroturbine technology: similar to **tidal turbine**



Transition: energy transition

Other innovations and projects

- **Waste heat** is captured and used as a source of energy in chemical and industrial processes: Ecluse1
- **CCS/CCU** (carbon capture & storage/utilisation): potential for using CO₂ as a raw material
- **Power to Methanol** demo plant under development
- **Concentrated Solar Power Pilot** ongoing with potential for upscaling



International



Port of
Antwerp



Presence

Port of Antwerp around the world



Port of Antwerp International

Consult – Manage – Invest



PORT MANAGEMENT

Management of Port
Authorities



TERMINAL OPERATIONS

Improving efficiency of
terminal operations



SUPPLY CHAIN

Improving efficiency of
the supply chain



COMMERCIAL DEVELOPMENT

Market analysis, forecasting
& business development



PORT PERFORMANCE ANALYSIS

Analysis and remediation on
the functioning of ports &
terminals

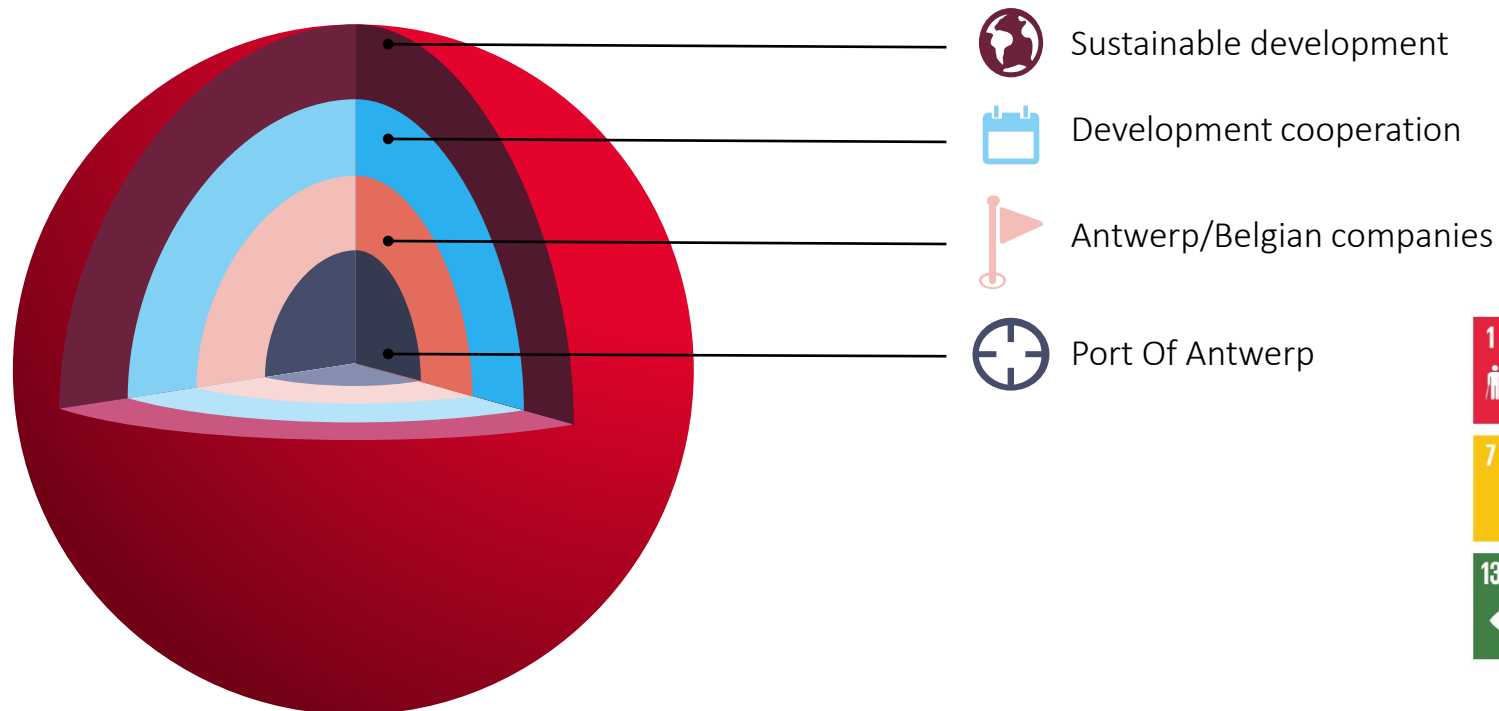
APEC – Antwerp/Flanders Port Training Center



Global berth for ports

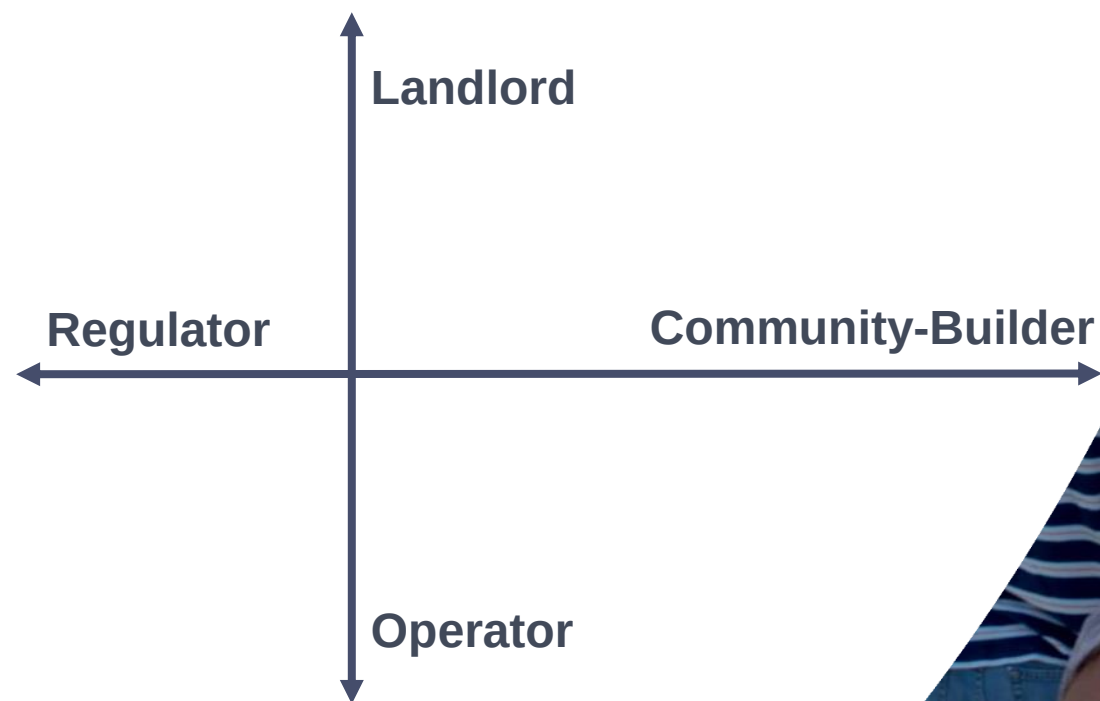
Strengthening ports and terminals through training, advice and management

PAI & APEC Preferential partner for Belgian development cooperation



Veränderte Rolle der Port Authority

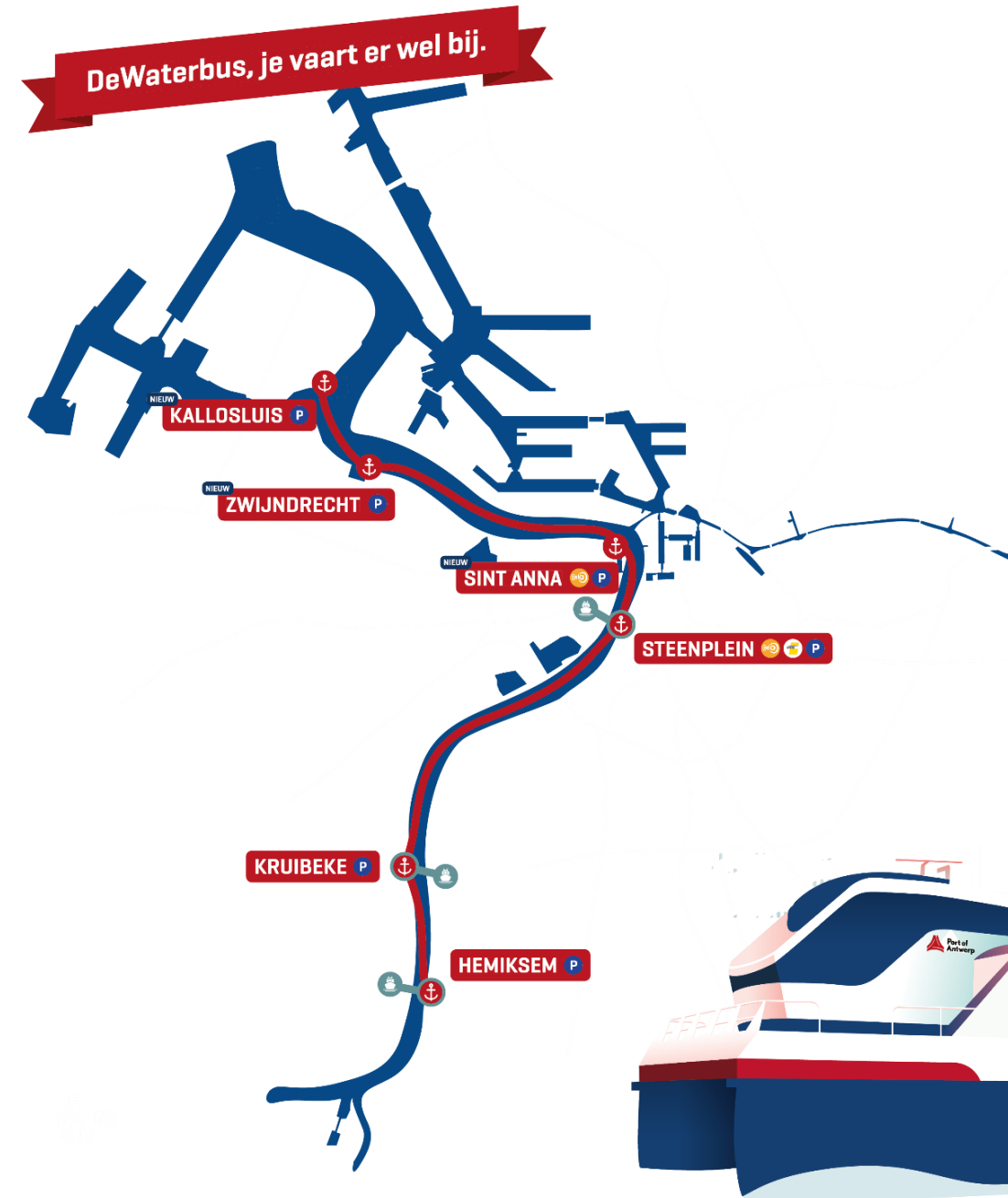
Aktive Schlüsselfunktion als Community-Builder



Mobility: commuter transport

deWaterbus is a huge success

- More than **400.000 passengers** since launch in July 2017
- Community builder and flywheel for innovation
- Route **Albertkanaal**: February 2019
- First in Europe to have **electric ships**







THANK YOU FOR YOUR PARTICIPATION