

# Port of Antwerp- Bruges

## Roadmap to Progress

Walter Holzhammer

Port Representative



Port of  
Antwerp  
Bruges



# Your journey today

1. A Global Port
2. Strategic Plan
3. Climate Neutrality
4. Develop a multi-fuel Port



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# A Global port



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World port that reconciles people, climate and the economy

# Stronger together



**One port**  
Two locations

Stronger position of **logistical chain**  
Sustainable growth and **interconnectivity**  
Leading on the **energy transition**



## 2nd largest port in Europe



Largest **car handling** port in Europe  
3.5 million cars/year



14,322 **Hectares**



164,000 **jobs**  
Direct and indirect



Largest **chemical** hub in Europe



Number one **export** port in Europe



1,400 **Companies**



**Total throughput**  
287 mio tons/year



Important **cruise** port in Benelux  
+ 300,000 passengers



15% of EU **gas** market

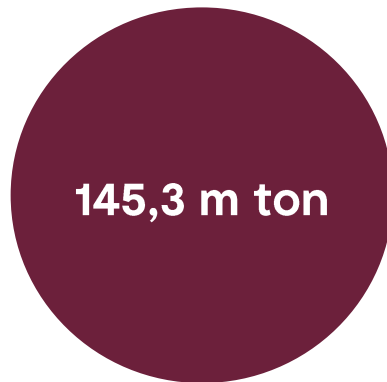


# Total volumes Port of Antwerp – Bruges 2022

Total



Containers



13,50 mio TEU

Liquid bulk



Dry bulk



Breakbulk



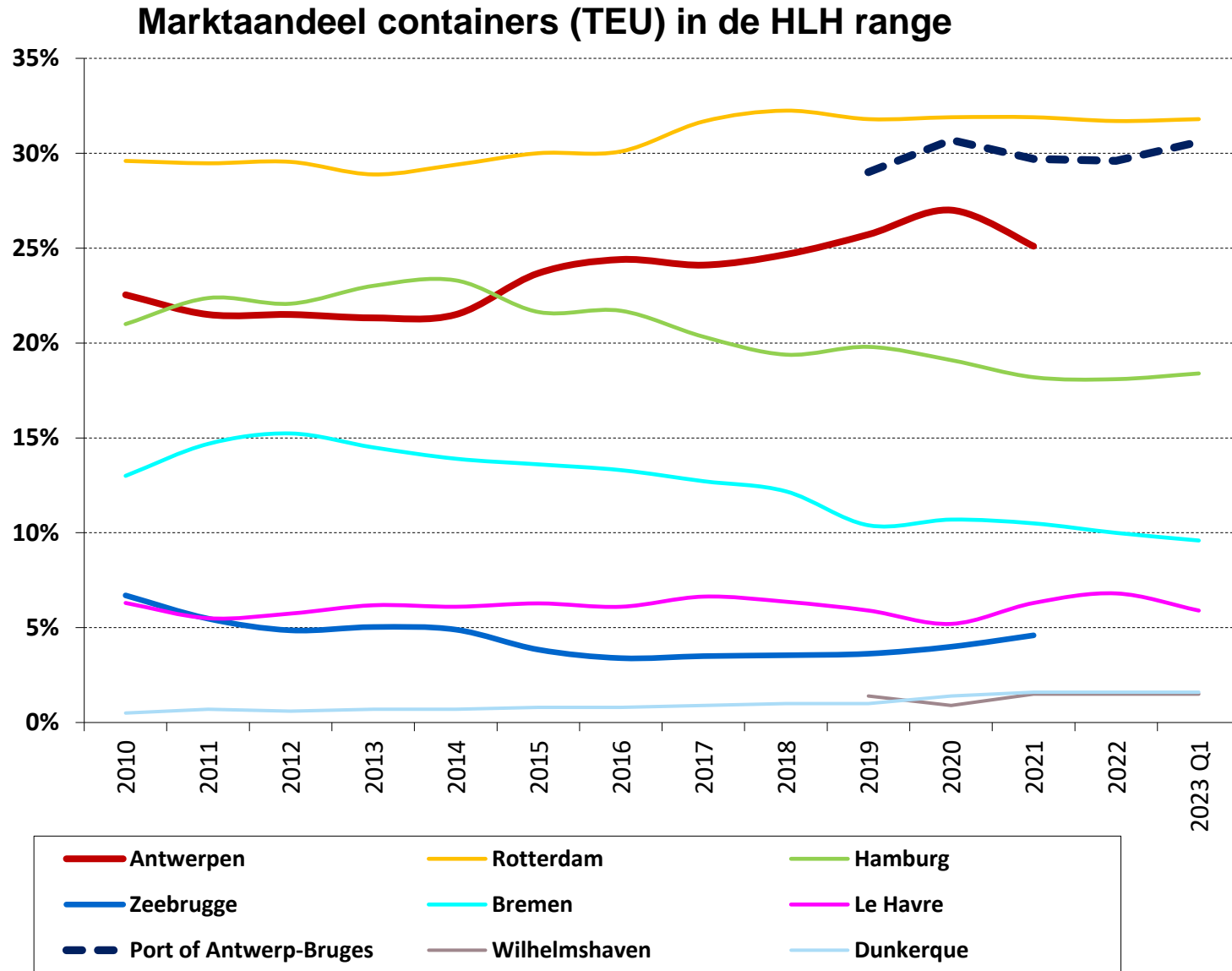
RoRo



3,5 mio cars

# Market share containers (TEU) in Hamburg-Le Havre range

(incl. Wilhelmshaven from 2021)



# Strategic plan



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# Our Strategic plan 2022-2025



**Economy**

Value Proposition

Container plan

Connectivity



**Climate**

Greening of the Port Authority

Greening of our platform  
Port of Antwerp-Bruges

Ready for  
sustainable molecules



**People & environment**

Organisation

Culture

Nature and  
environment

# Daily operations

Port Authority as a driver  
for Port of Antwerp-Bruges

*Frontrunner in four roles*



Regulator



Operator



Landlord



Community builder

# Climate neutral by 2050







Fit for **55**

Climate-neutral port by **2050**

**EUROPEAN GREEN DEAL**

# Towards a climate neutral port in 2050

1. Local production of green electrons and molecules
2. Import of green electrons and molecules
3. Development of circular economy
4. CCUS
5. Multifuel Port



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Sustainable  
Energy



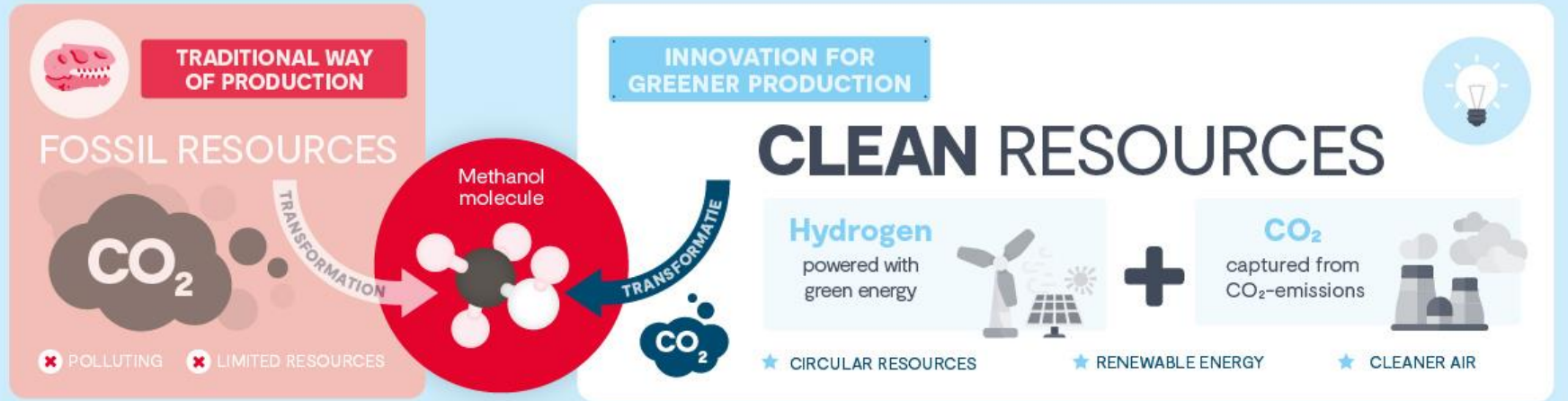
Sustainable  
Industry



Sustainable  
Shipping

# Power to Methanol demonstrator

with 7 partners





# Towards a climate neutral port in 2050

1. Local production of green electrons and molecules
- 2. Import of green electrons and molecules**
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Sustainable  
Energy



Sustainable  
Industry



Sustainable  
Shipping

# Frontrunner Energy transition

Ambition to be the most important  
European **hydrogen** import hub

Production  
green hydrogen



Import green  
hydrogen



Pipeline  
Bruges-  
Antwerp



Carbon capture,  
storage & utilisation



Use in industry and  
chemistry



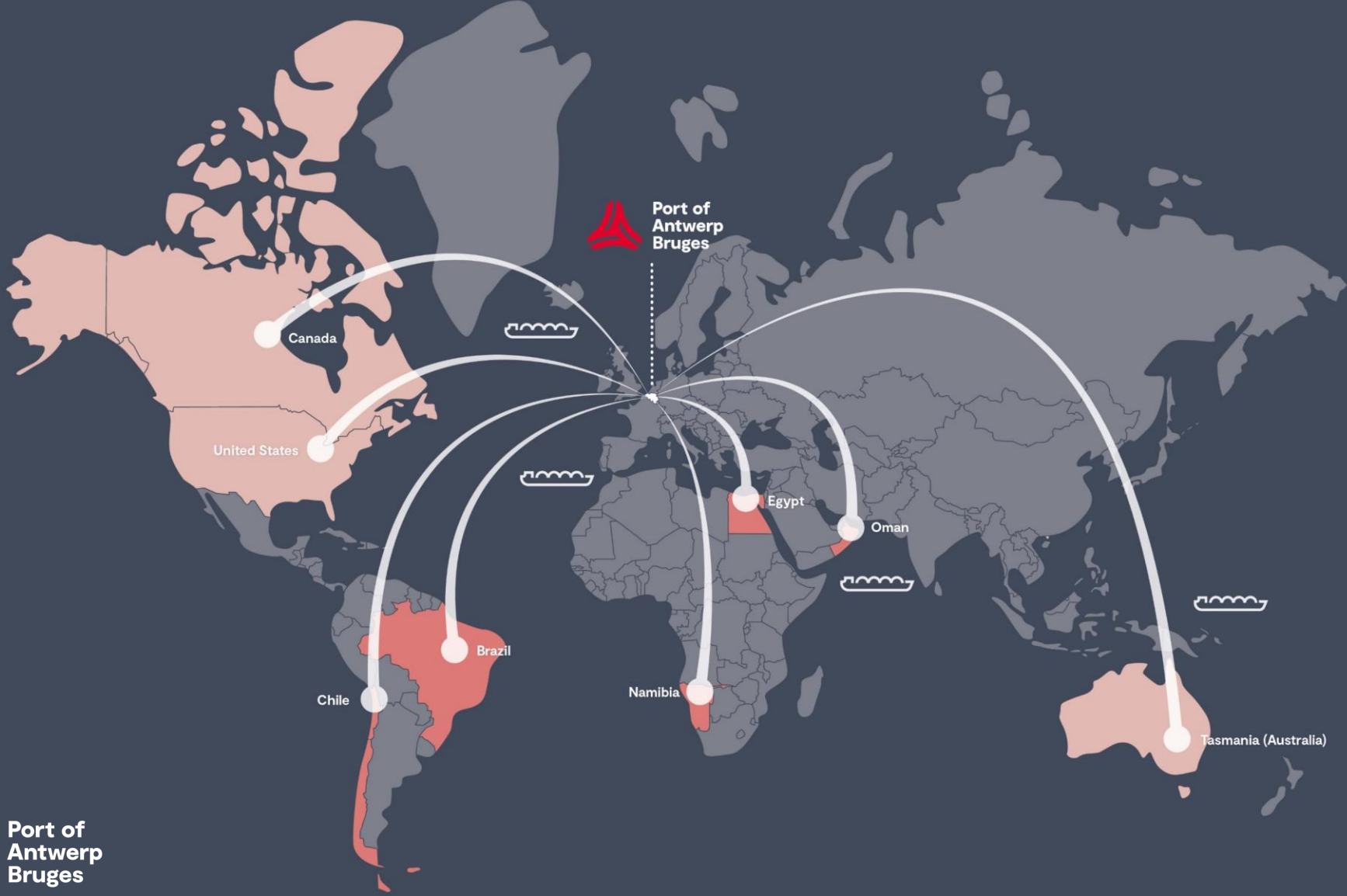
# Production Hydrogen Import Coalition

We have gathered industrial  
actors in a coalition  
°2019





# Port of Antwerp-Bruges as lever for a global hydrogen supply chain



# Towards a climate neutral port in 2050

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Sustainable  
Energy



Sustainable  
Industry



Sustainable  
Shipping



# Nextgen District: circular hotspot



Triple Helix

Bolder Industries

NextGen Demo ± 2,2 ha

Eko-pak

Plugpower

PureCycle Technologies





# Towards a climate neutral port in 2050

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Sustainable  
Energy



Sustainable  
Industry



Sustainable  
Shipping

# Antwerp@C

8 spelers uit chemie- en energiesector onderzoeken haalbaarheid om CO2 af te vangen, op te slaan en te hergebruiken in Port of Antwerp-Bruges



**BASF**  
We create chemistry

**Air Liquide**

**ExxonMobil**

**BOREALIS**  
Keep Discovering

**fluxys**

**INEOS**

**TotalEnergies**

**Port of Antwerp Bruges**

**Our Ambition**  
CO<sub>2</sub> capture

2017

18 million tons



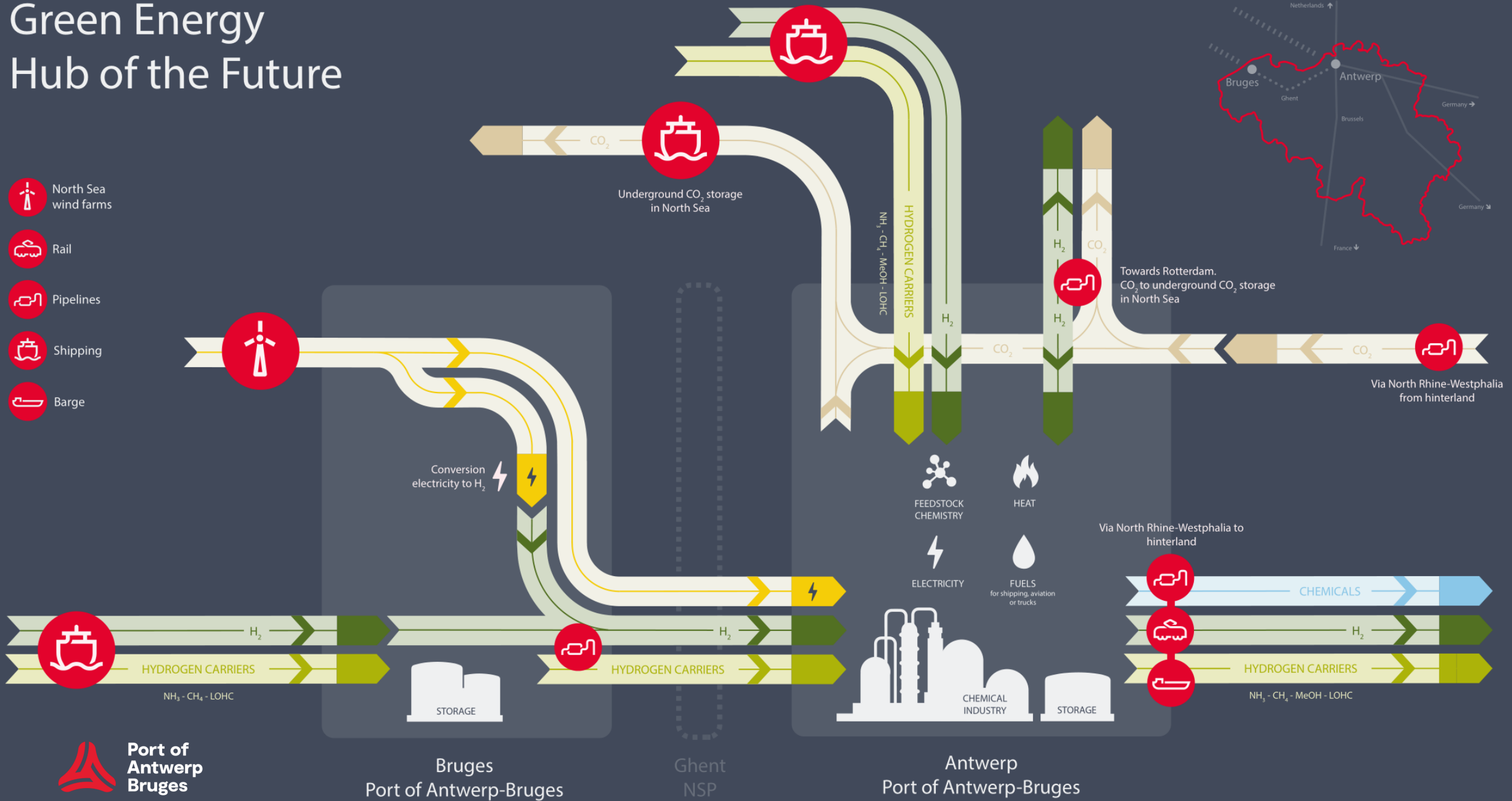
2030

-50%



# Green Energy Hub of the Future

- North Sea wind farms
- Rail
- Pipelines
- Shipping
- Barge





# Towards a climate neutral port in 2050

1. Local production of green electrons and molecules
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5. **Multifuel Port**



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Bruges



Sustainable  
Energy



Sustainable  
Industry



Sustainable  
Shipping

# Transformation into a Multi Fuel port



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# Shipping: multifuel port



Bunkering hub



Alternative fuels offer



Bunkering infrastructure



Sustainable fleet



# Alternative fuels on offer

Methanol

LNG

On-Shore power barges

Biofuel

Reality today

Reality tomorrow

Hydrogen

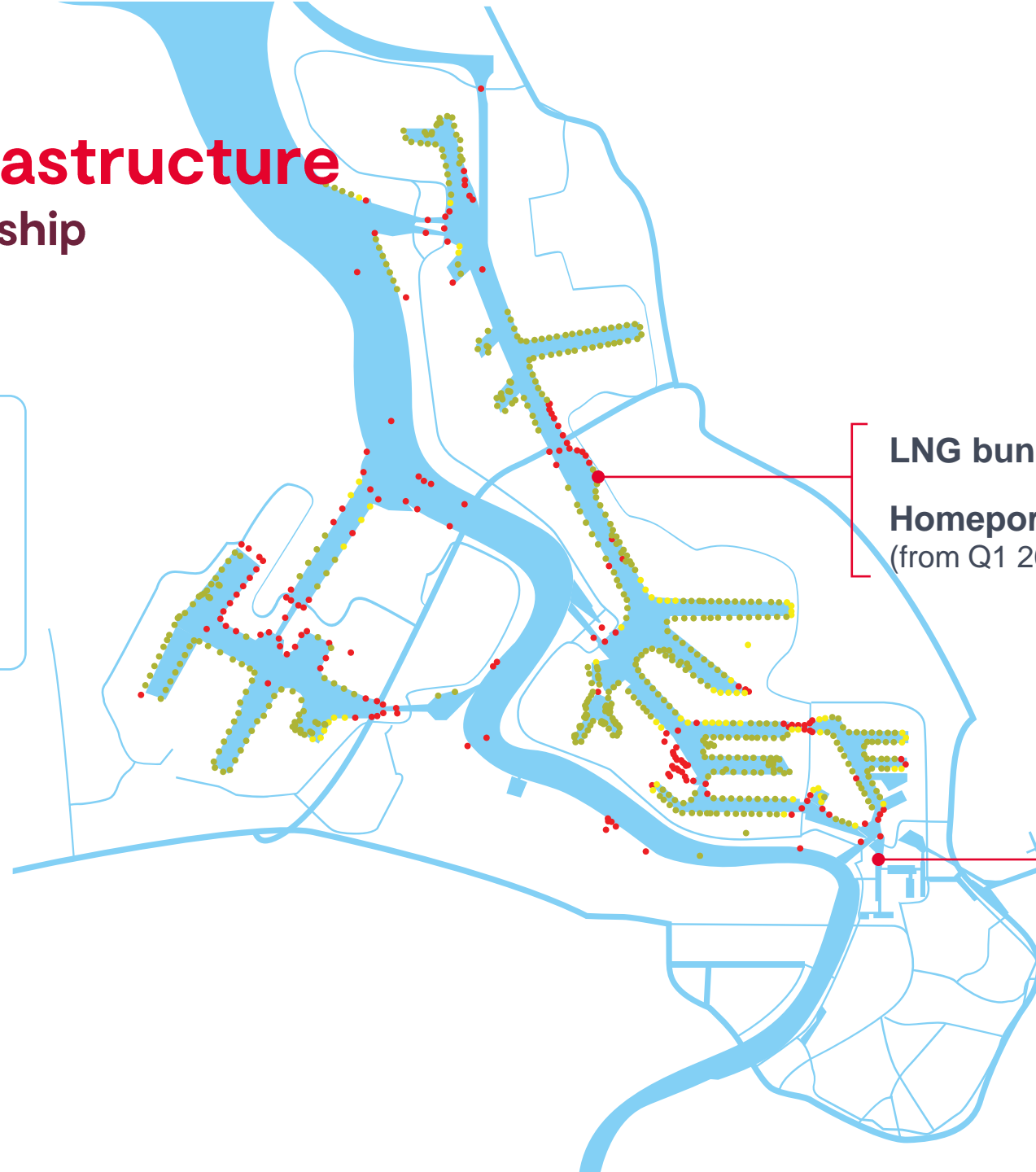
Ammonia

On-Shore power deepsea

# Bunkering Infrastructure

Middle small bunker ship  
(2000 m<sup>3</sup>)

- LNG-bunkering not allowed
- Max 1 operation per week
- Max 1 operation per day
- Max 5 operations per day



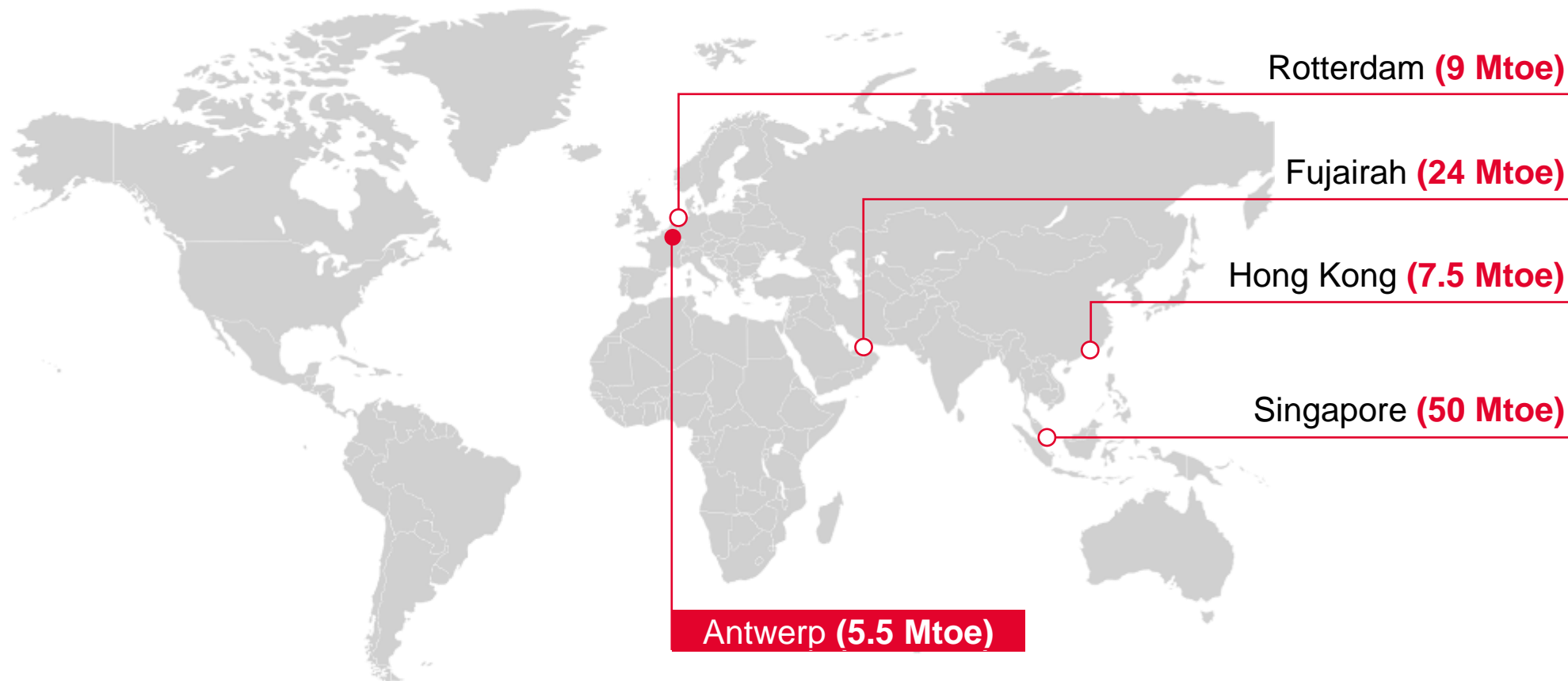
LNG bunkerstation Fluxys

Homeport FlexFueler 002  
(from Q1 2021)

Hydrogen fueling  
station CMB  
(from Q2 2021)

# Bunkering hub

Antwerp 5th largest bunker location worldwide





# More sustainable fleet and vessels Port Authority

Hybrid  
Patrol vessels

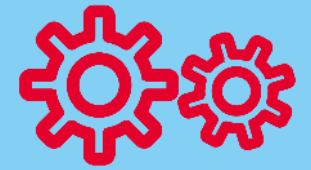


Methatug

Hydrotug



RSD energy-efficient  
tugs



Operator

# Frontrunner energy transition

## Projects in energy, industry and shipping



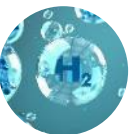
### Sustainable Energy



**Expand Onshore wind** production capacity Hyoffwind



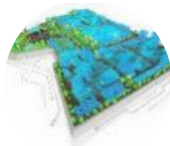
**Backbones for sustainable flows** (H<sub>2</sub>, CO<sub>2</sub>, waste heat & steam)



**Hydrogen Import Coalition / Pilots**



### Sustainable Industry



**NextGen District** – hotspot for circular Economy



**Antwerp@C – CCS**



**Power-to-Methanol** green methanol production (CCU)



### Sustainable Shipping



**Multi Fuel Port** – alternative fuels on offer



**Onshore power supply** for vessels



**Tugboats on H<sub>2</sub> & methanol**





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