

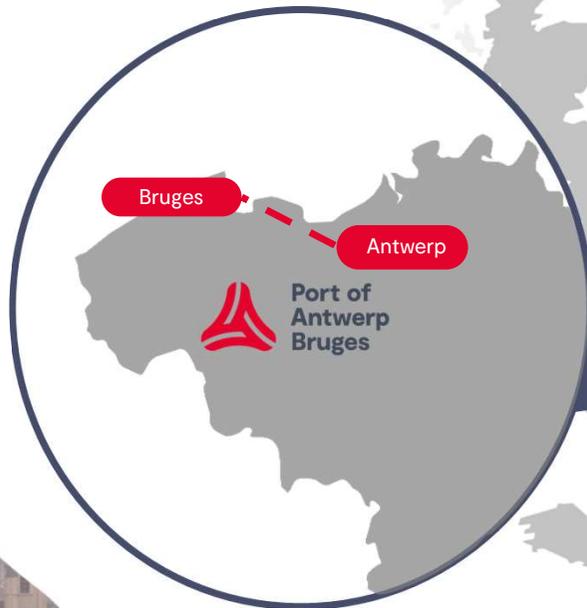
Port of Antwerp-Bruges

Committee of the Regions

13 January 2023



Port of
Antwerp
Bruges



A global port in the heart of Europe

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

Belgium's **main LNG hub**
Europe's largest **chemical cluster**

One port
Two sites



Port of
Antwerp
Bruges





2nd largest port in **Europe**



Port of Antwerp Bruges



Largest **car handling** port in Europe

3,507,461 million cars/year



20,675

Seagoing vessels/year



Largest **chemical** hub in Europe



Number one **export** port in Europe



Total throughput 287 mio tons/year



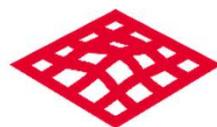
Important **cruise** port in Benelux
547,374 passenger movements



15% of EU **gas** market



Belgium's most important economic driver



14,322

Hectares



1,400

Companies



€ 20,8 billion

Added value



4.5%

GDP



164,000 jobs

Direct and indirect



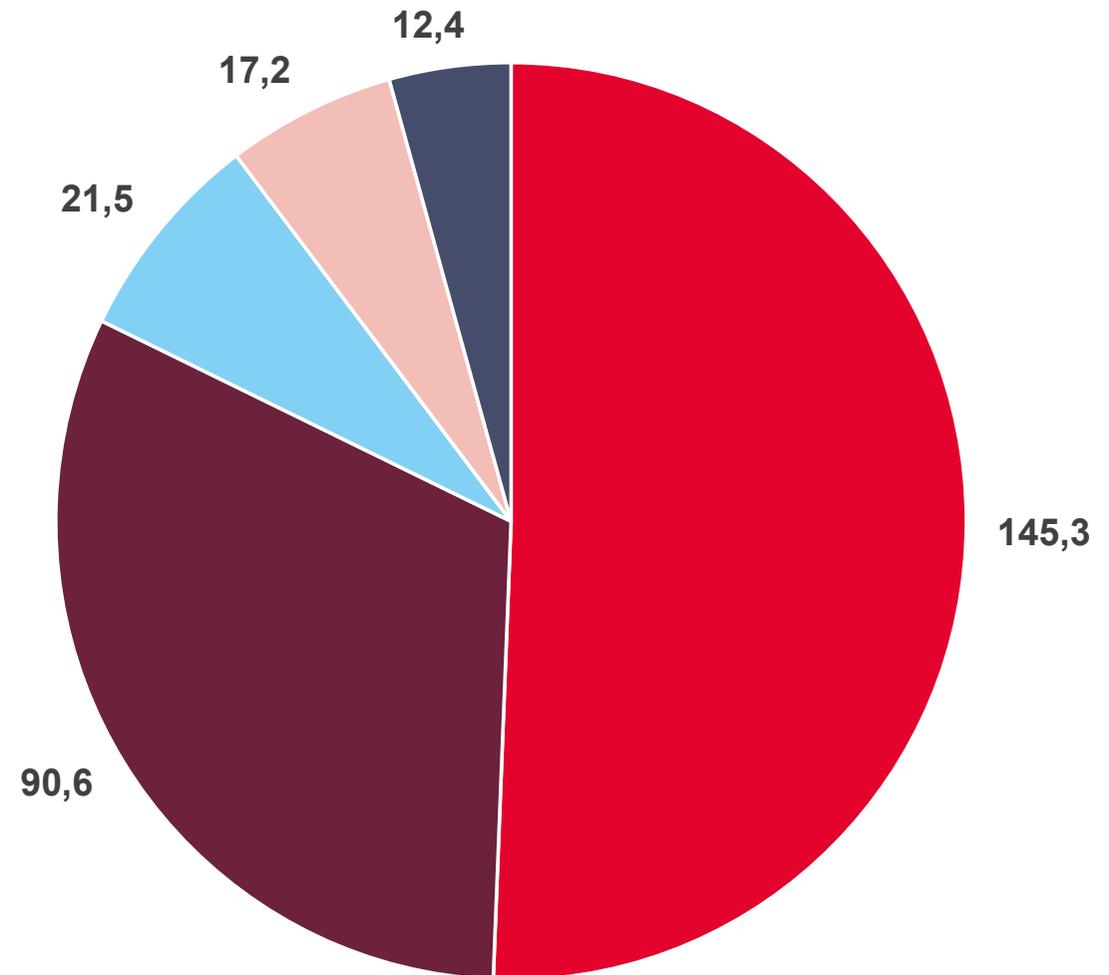
Energy transition

frontrunner

Throughput of 287 mio tonnes in 2022



- Containers
- Liquid bulk
- Roro
- Dry bulk
- Conventional general cargo



Connectivity

Multimodal gateway to the European hinterland

Rail



Inland navigation



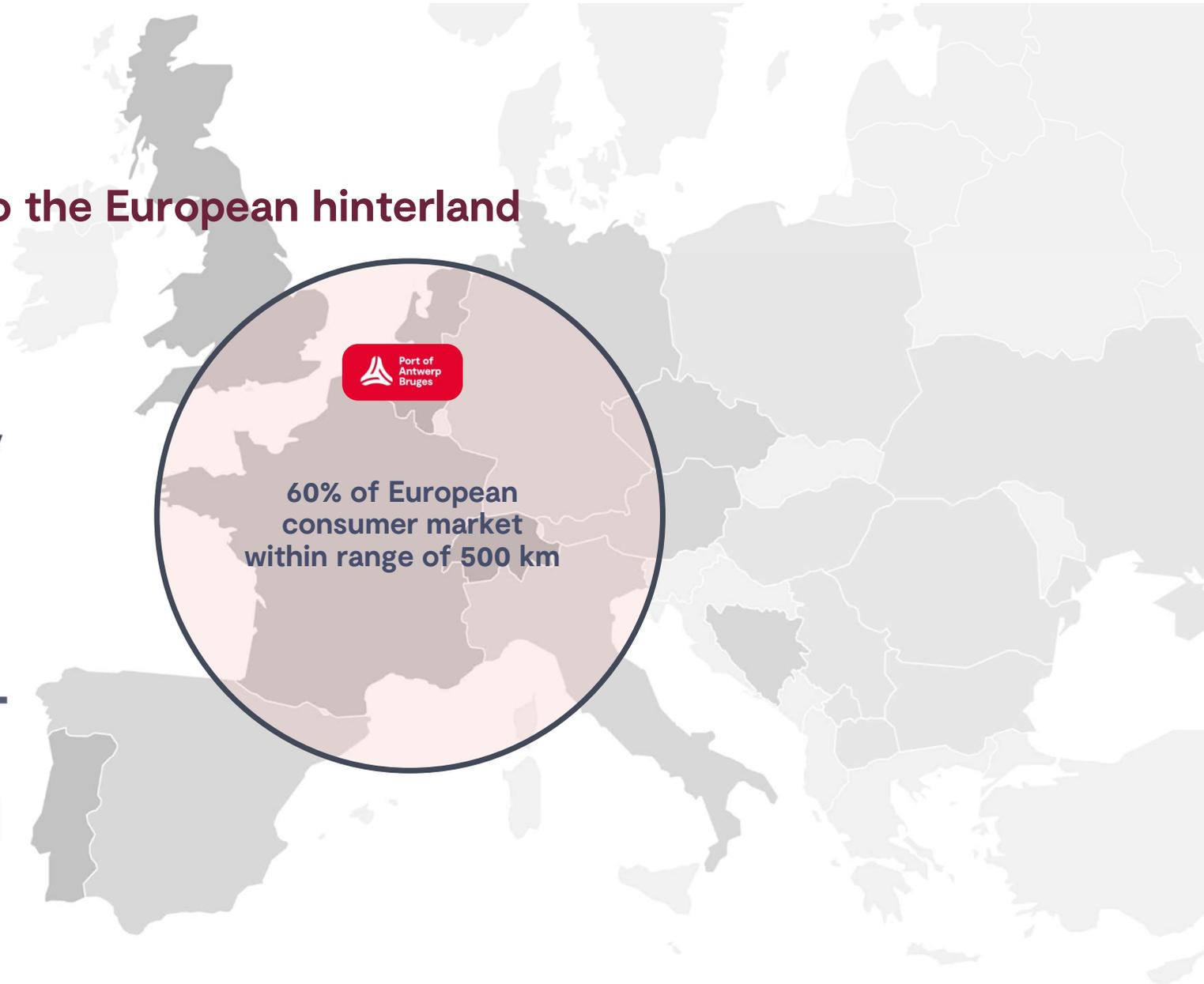
Road



Shortsea



Pipeline



60% of European consumer market within range of 500 km



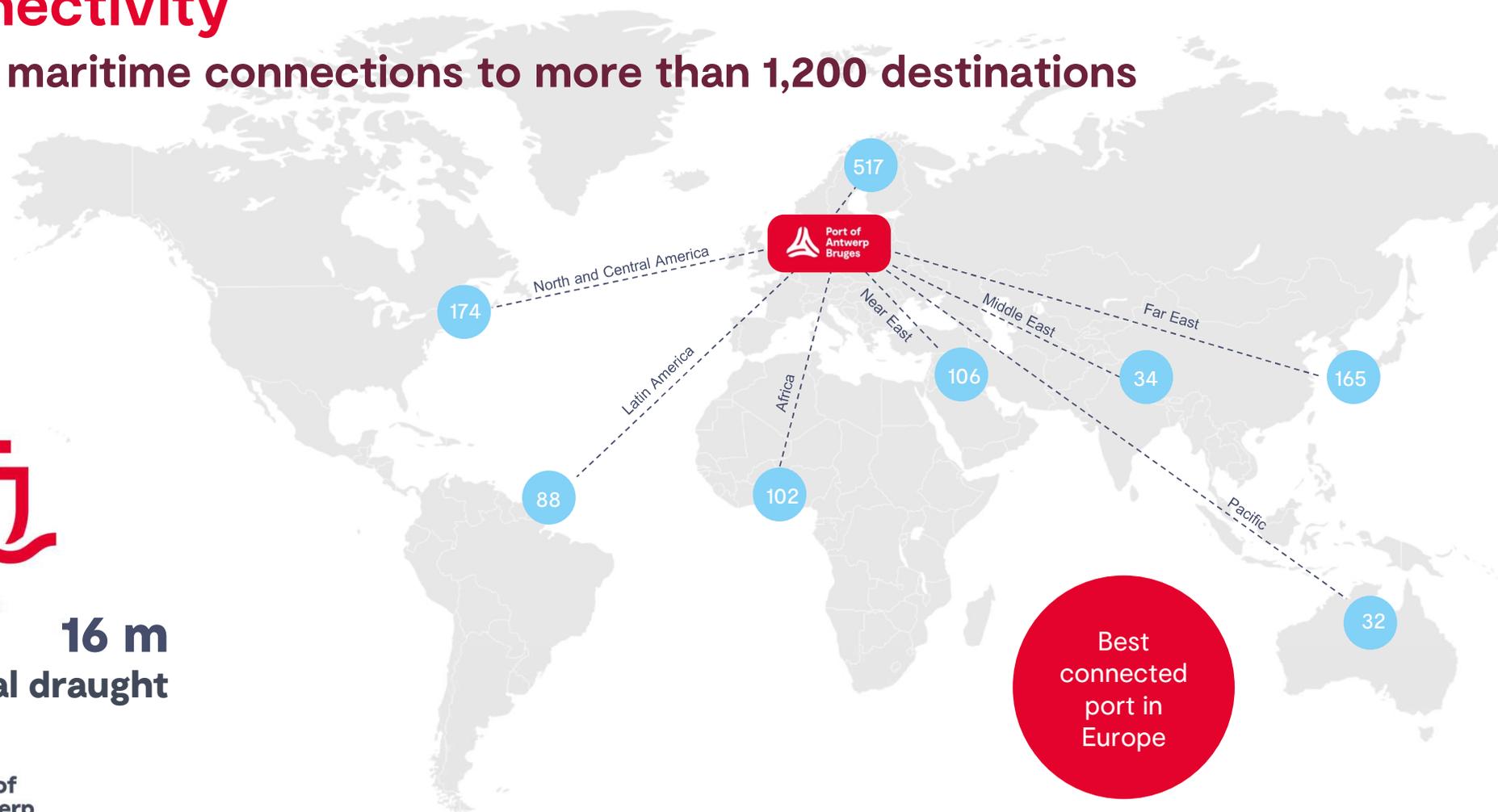
Port of
Antwerp
Bruges

Connectivity

Direct maritime connections to more than 1,200 destinations



16 m
Nautical draught



Best
connected
port in
Europe

Home port as a lever for a sustainable future



Business plan looking to the future



On our way to a **global** port
reconciling people, climate and economy, together

Daily operations

Frontrunner in four roles

Port Authority as a driver
for Port of Antwerp-Bruges



Regulator



Operator



Landlord



Community builder

Strategic plan 2022 - 2025



“One port on two locations offering a strong product”

“Climate neutral in 2050”

“Safe, clean & healthy environment for people in & around the port”

Value proposition clients



Green Port Authority



Organisation



Container Plan



Green Port Platform



Culture



Connectivity



Ready for hydrogen



Nature&surrounding



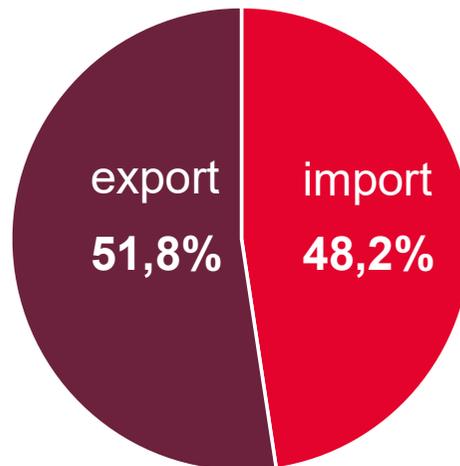
Containers

Growing importance of the container

Rise in containers past 50 years



Balanced container import and export



Top 5 container markets

(import en export)

- USA
- China
- Turkey
- United Kingdom
- Singapore

Frontrunner energy and digital transition



Port of
Antwerp
Bruges



How to become a climate neutral port in 2050?

Port of Antwerp-Bruges' strong commitment to a circular economy and the energy transition

Frontrunner energy transition

Projects in energy, industry and shipping



Sustainable Energy



Expand Onshore wind production capacity Hyoffwind



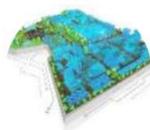
Backbones for sustainable flows
(H₂, CO₂, waste heat & steam)



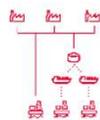
Hydrogen Import Coalition / Pilots



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 H₂ & methanol

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

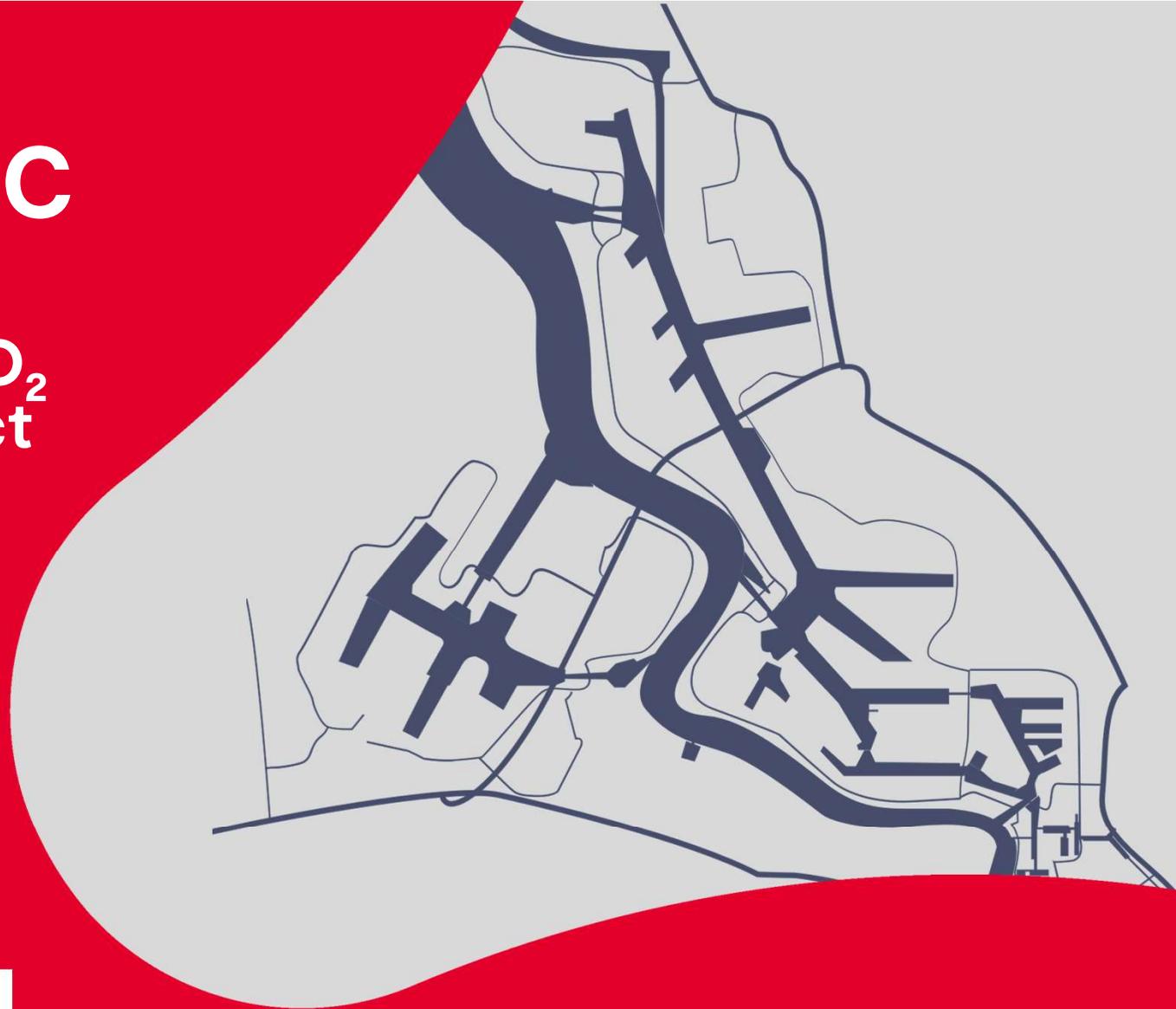


Use in industry and
chemistry

Antwerp@C

an innovative CO₂
reduction project

18 January 2023



Co-financed by the Connecting Europe
Facility of the European Union

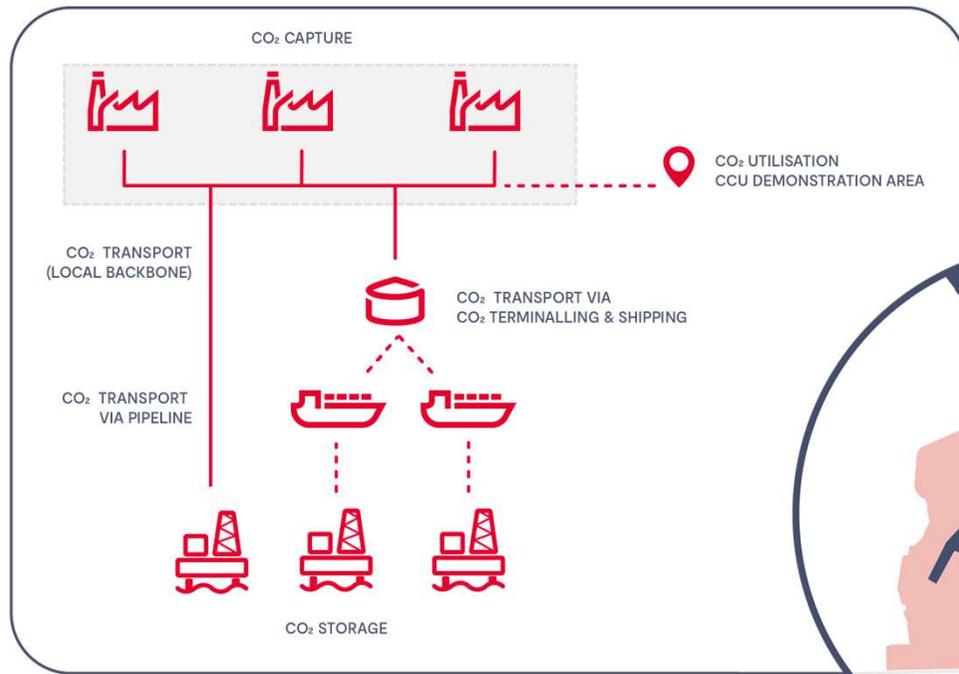
Antwerp@C

8 project partners

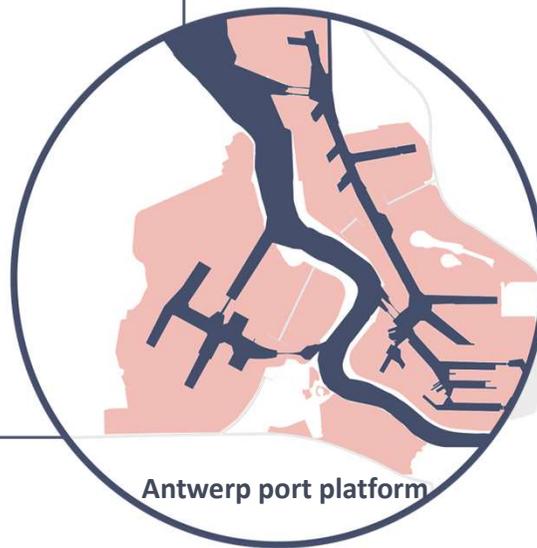


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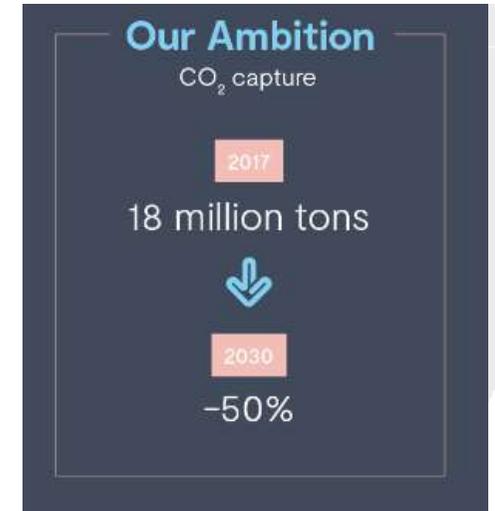
Building a CCUS value chain in Port of Antwerp-Bruges



Concept image

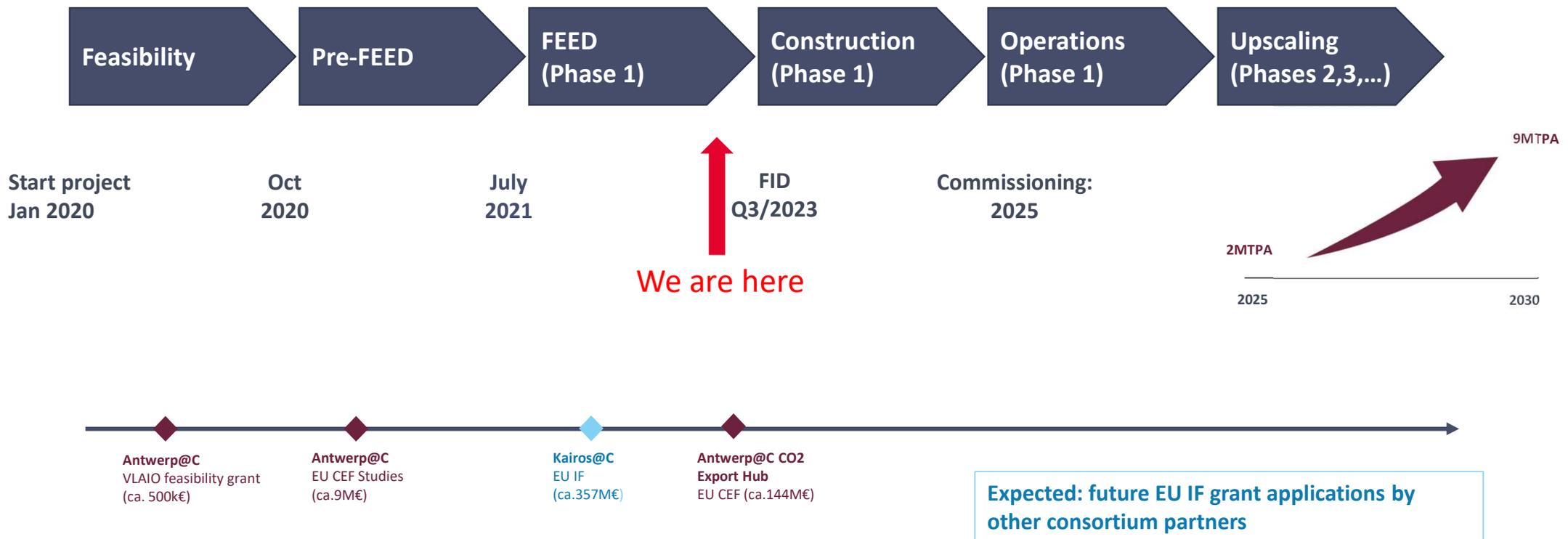


Antwerp port platform



Antwerp@C

Project development timeline



ePIenter



Enabling resilient, efficient and greener supply chains!

ePIenter



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 861584.

 <https://epicenterproject.eu/>

 <https://www.linkedin.com/company/epicenterproject/>

 <https://www.youtube.com/watch?v=i0NwZGaPZdw&t>

This project has received funding under the Horizon 2020 Framework
Programme of the European Union – Grant Agreement No. 861584



ePI(enter)

epicenterproject.eu





Co-funded by the Horizon 2020 programme
of the European Union



PIONEERS

Portable Innovation Open Network for
Efficiency and Emissions Reduction Solutions

PIONEERS – H2020 Green Ports Call

Portable Innovation Open Network for Efficiency and Emissions Reduction Solutions



Sustainable & Smart
Mobility Strategy
EU Green Deal
Fit for 55
COP27



PiONEERS
19 demonstrations
1 Green Port Master Plan



**Port of
Antwerp
Bruges**

2050 climate neutral port

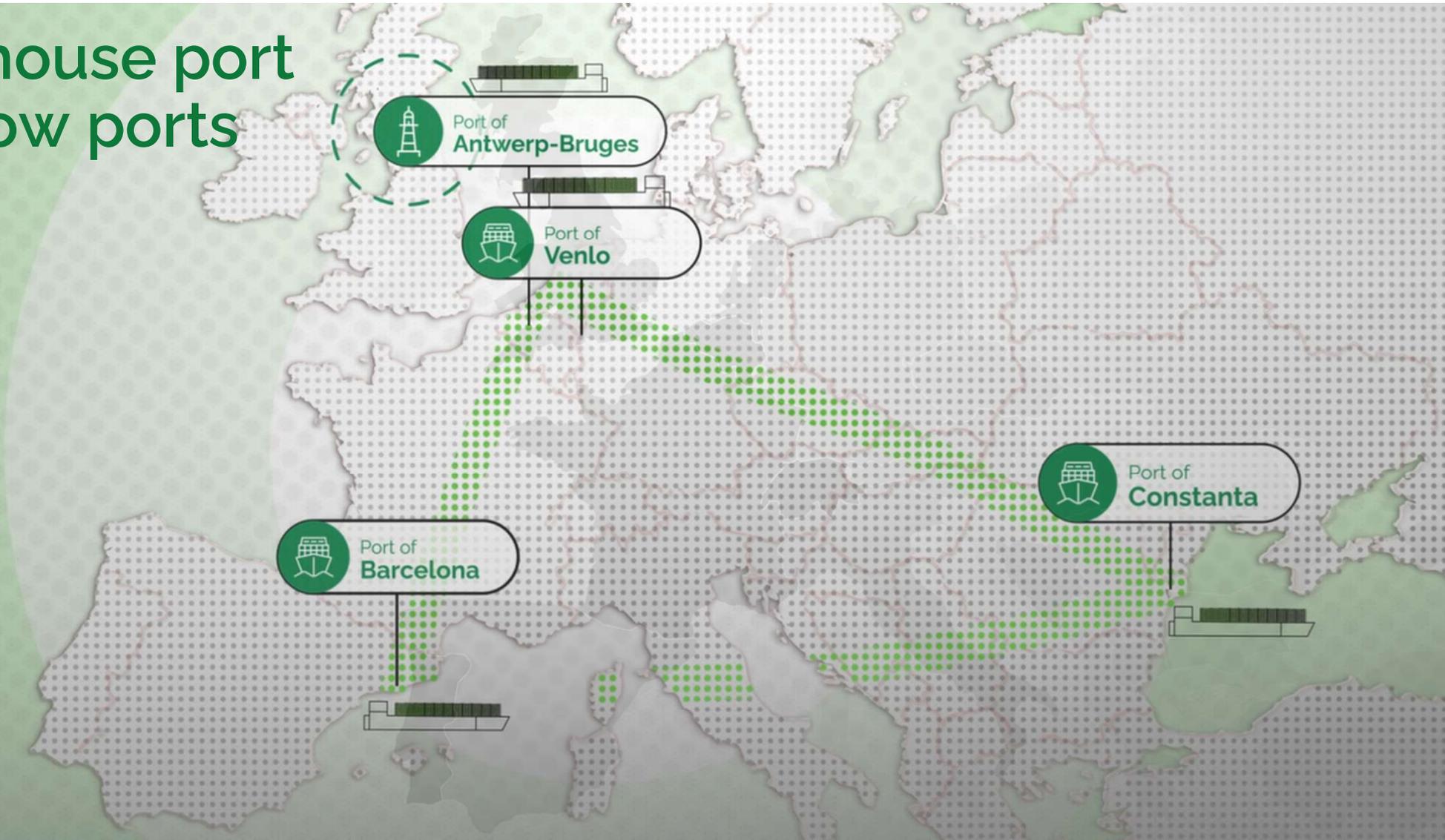
Lighthouse projects
Business Plan 22-25
Corporate Risk Management
Community Builder



“Green Ports should be the norm”

*Magda Kopczynska, Director for Waterborne Transport DG MOVE
@ PIONEERS International Conference 2022*

Lighthouse port & fellow ports



PIONEERS' 46 PARTNERS



Port of Antwerp-Bruges

Clean energy production & supply

- 1 Hydrogen refuelling infrastructure
- 2 A corridor of modular docking stations for energy containers
- 3 Battery storage and Smart Management of Green Energy in terminal operations
- 4 Hydropower Turbine

Sustainable port design

- 1 Hydrogen heating for buildings
- 2 Local resource recovery for green, circular concrete
- 3 Green Straddle Carriers

Modal shift & flows optimization

- 1 IT Platform for planning multimodal transport
- 2 Realizing a modal shift in the commute of port employees
- 3 Cargo Flow Optimisation
- 4 Cargo Flow Prediction

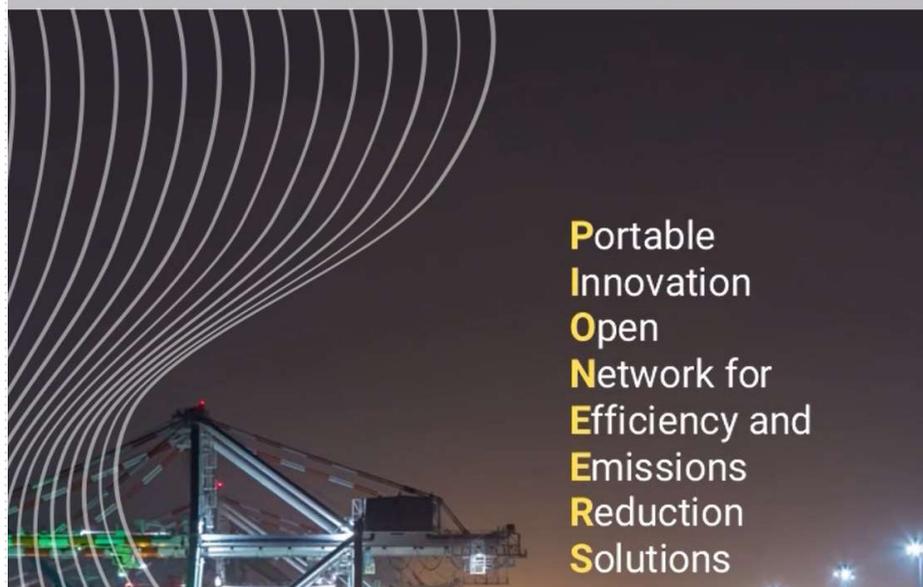
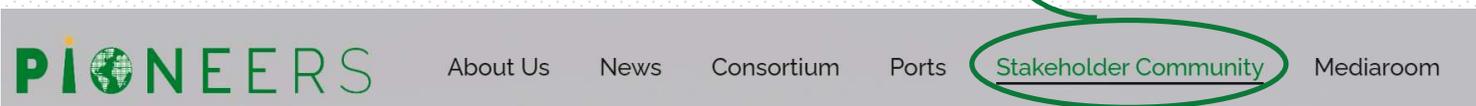
Digital transformation

- 1 Automated container shuttle solutions for port operations
- 2 Automated vessels
- 3 Vessel traffic optimization
- 4 Digital Twin



FOLLOW PIONEERS!

Receive updates on the project through our stakeholder community network!



www.pioneers-ports.eu

 PIONEERS Ports

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PIONEERS

Thank you

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Port of
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