## Port of **Antwerp-Bruges**

Trends and Innovations in Sustainable Po **Development and supply chains** 

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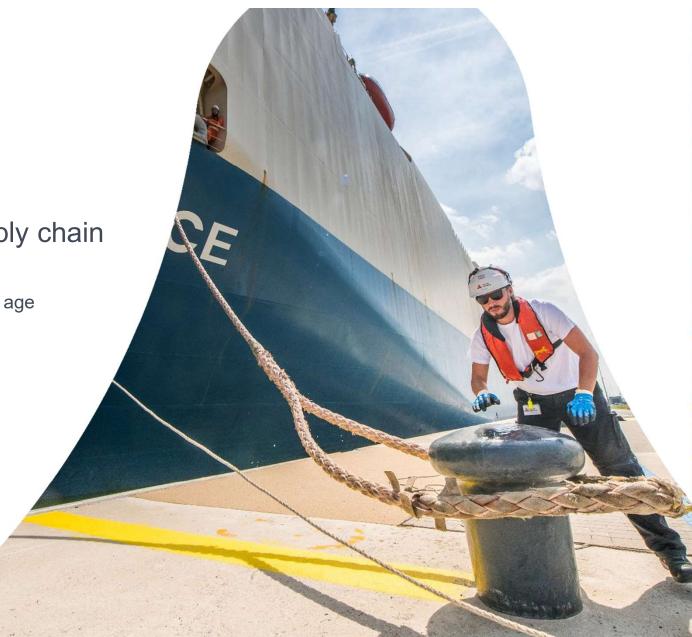
Antwerp Bruges

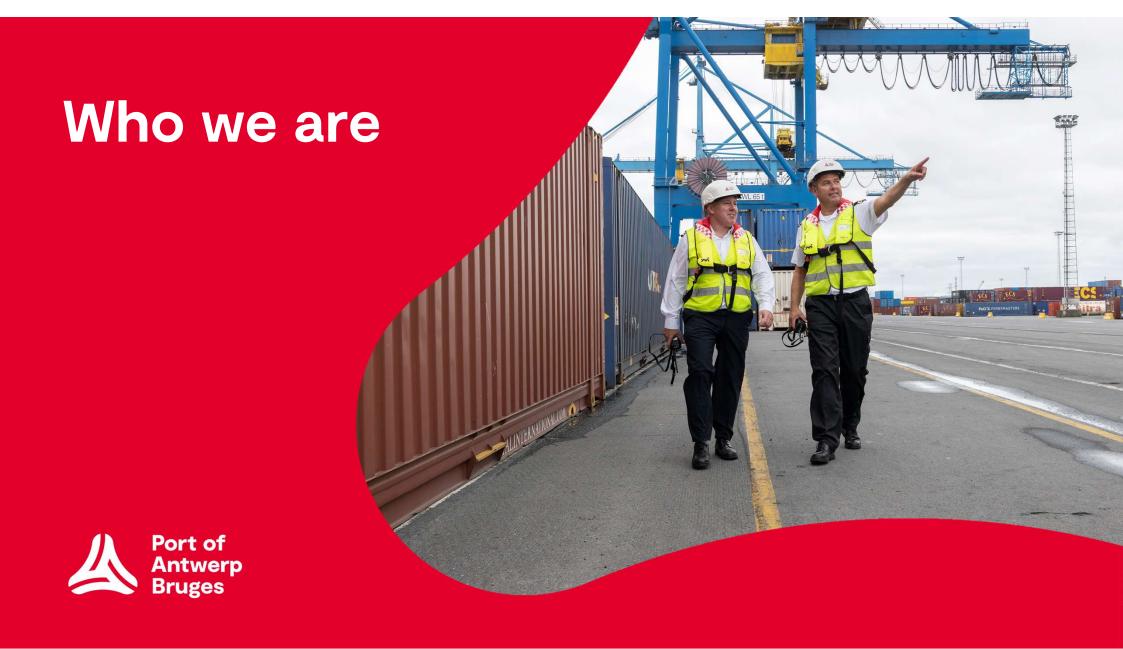
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New port security solutions for the digital age Frontrunner in circular economy









Number one export port in Europe



20k seagoing vessels/year

48k barges/year



Largest integrated chemical hub in Europe

3.56 mio new cars/year

Largest car handling port in Europe

000

Important cruise port in Benelux 1 mio passenger movements

2nd largest port in Europe

CA<sup>+</sup>

13th largest port in world



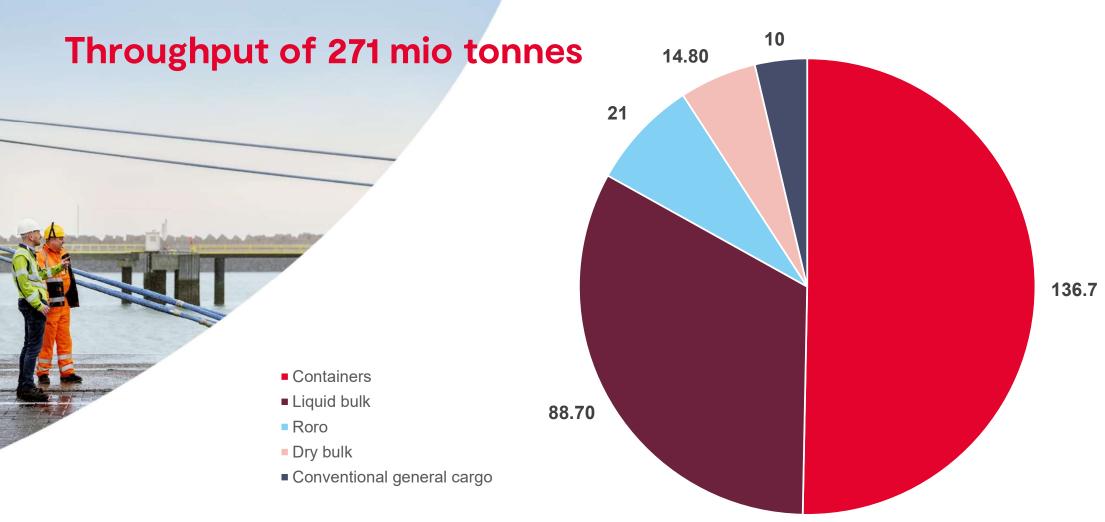
15% of EU gas market 1,000 km pipelines

**Total throughput** 271 mio tons/year

42k loaded cargo trains/year 80 destinations









#### **Results Total freight volume** -5.5% 271.3 million tonnes January – December 2023 -2.1% -13.9% dry bulk 14.8 mio tonnes 169 cruise ships liquid bulk 88.7 mio tonnes -18.8% -2.1% -5.9% 20,156 seagoing ships conventional breakbulk 10 mio tonnes containers 136.7 mio tonnes roro 21 mio tonnes -7.2% +9% new cars 3.56 mio containers 12.5 mio TEU +10.7% ort of reefer containers

# Home port as a lever for a sustainable future

Antwerp

We aim to be a world port that reconciles people, climate and economy. Together with our partners and customers, we actively seek sustainable solutions. We dare to be pioneers and bring about a transition in the field of mobility, energy and digitisation.

## Vision

We enable society, our partners, customers and employees to grow through our **focus on cooperation**, locally and internationally. We trust each other and work in networks where we develop and apply new insights and alternatives..

As such, we connect all the locations of Port of Antwerp-Bruges into a **unique hub in global trade and industry**, with the unmistakable feeling of a home port. Solid yet agile, we work every day to create the port of tomorrow.





## Business plan looking to the future



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





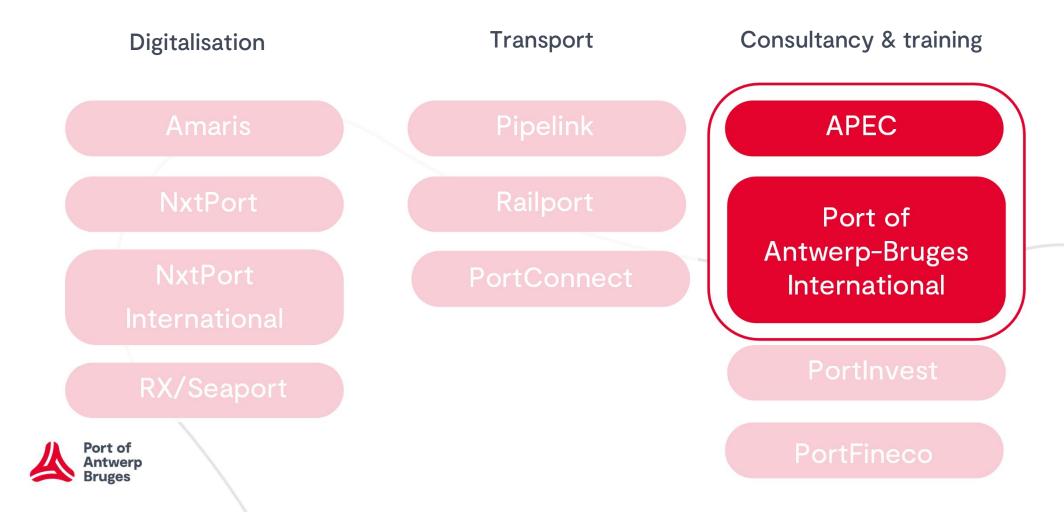
# Port of Antwerp-Bruges International

# APEC





## **Port of Antwerp-Bruges group**



# Your port as a catalyst for sustainable growth



## **Partnership driven**

### **Together towards sustainable port development**

**Port Management** Structural on-site support

> **Investering** Strategic partnerships



### Consultancy

Analysis & implementation

**Training** Open programmes & tailor-made solutions



## Sharing knowledge and expertise worldwide

### **Projects & partnerships**



# Position of ports in the supply chain

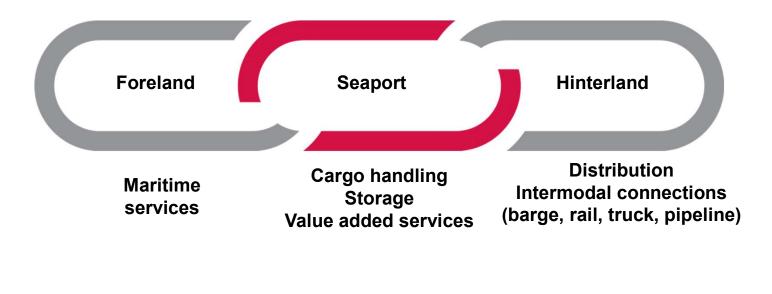
*Working towards a sustainable supply chain* 







## Seaports are part of the global supply chain



Trade facilitation, ICT, profound knowledge & expertise



## New port security solutions for the digital age

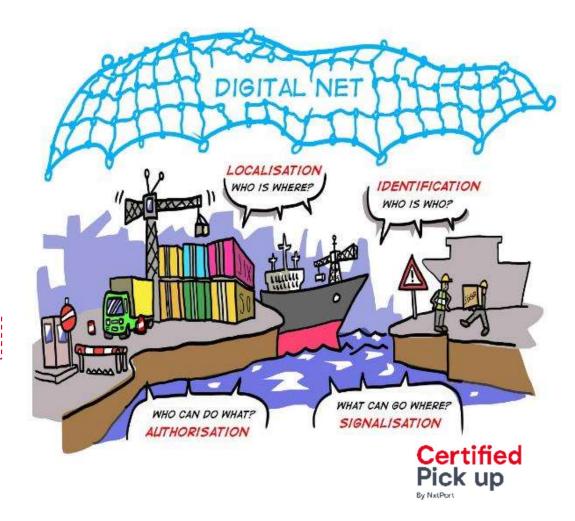




## **Vision of Port Authority : Safety within the port**

- All movements of people and goods must be known → sensors, smart cameras and drones
- Physically fencing off the entire port = not possible
- In this digital age there are other, "**smarter**" alternatives

A digital nervous system with real time information





## **Certified Pick Up**

Is a **digital** platform for container release in Port of Antwerp-Bruges. It is a **neutral** platform that centralises container information. It thus connects the various parties involved in the import process. Container collection is identity-based. Moreover, the platform makes the entire process auditable by the relevant authorities.





## Mandatory

Certified Pick up is **mandatory for all supply chain partners** involved in the release process of a container. The legal framework for this is contained in the <u>Port Police</u> <u>Regulations</u>. The platform **enhances the efficiency and security** of the container process and is therefore critical digital infrastructure for the port. To ensure this, it is imperative that all chain partners join



### **Benefits**

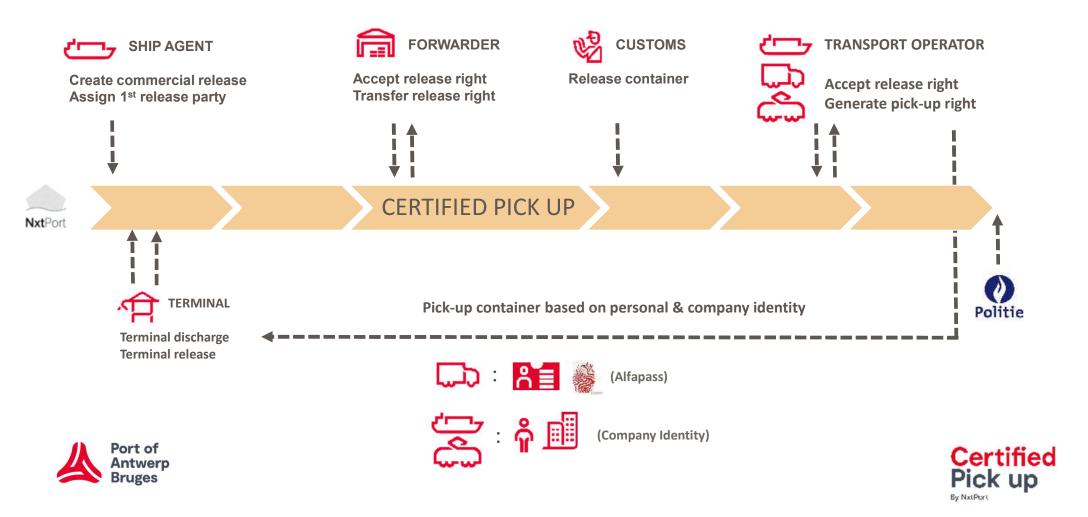
**Transparent:** Certified Pick up ensures transparency on container status, with the aim of increasing operational efficiency for each player in the chain.

**Safe:** Certified Pick up offers a new way of handling. You collect a container based on identity instead of PIN codes. The platform makes it possible to track which parties were involved in handling the container.

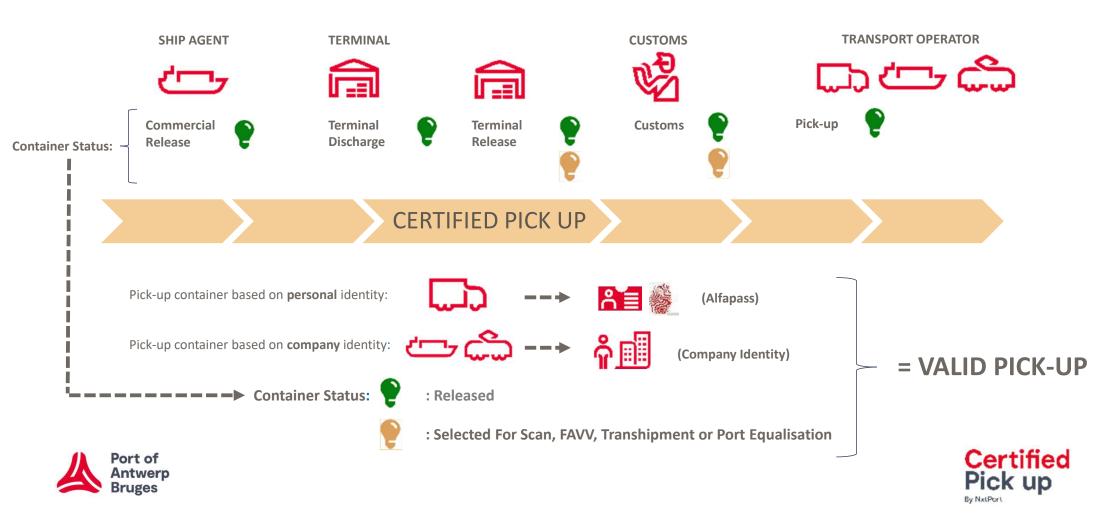
**Efficient:** Administrative processes are much easier; employees work in a safer way and subsequent transport can be planned better.



## **Certified Pick up flow**



### **Container release logic green or orange light**



# Sustainable port planning





### NextGen District hotspot for circular chemical industry in Antwerp

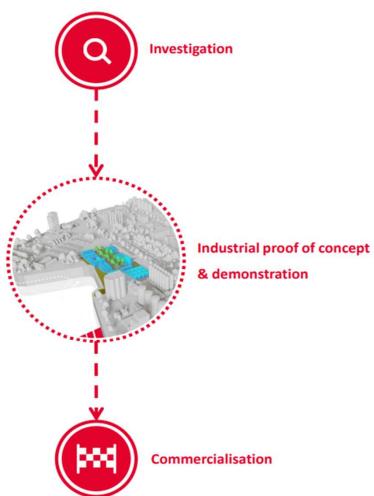


# Why NextGen Demo?

We want to make the shift towards a circular economy, so we need to **support innovation** & stimulate industrial 'proof of concept'.

Our goal is to help circular pioneers **bridge the 'valley of death'** – the high risk stage before commercialisation.





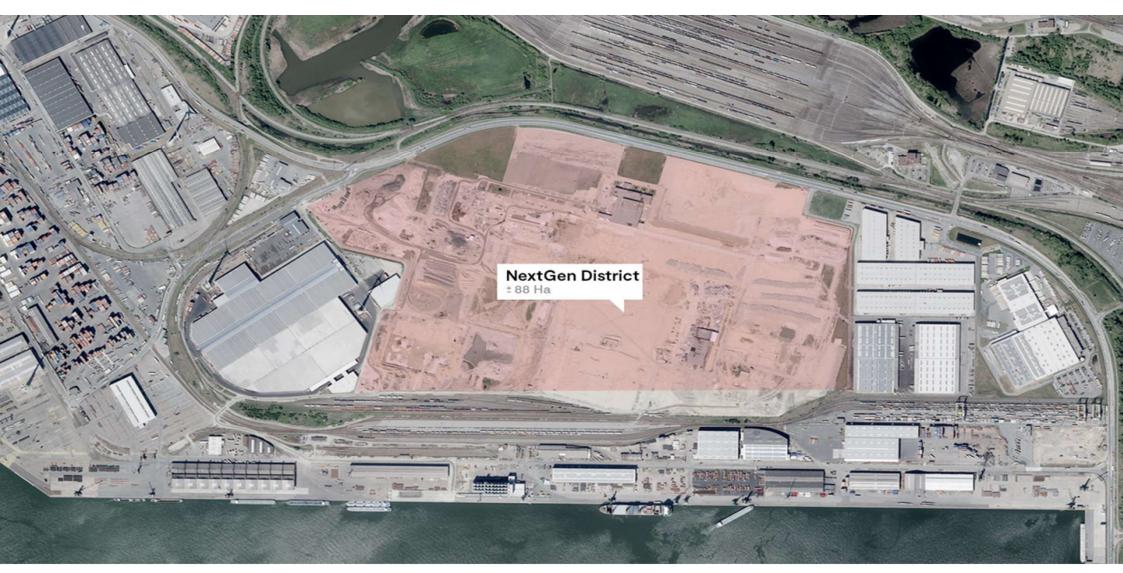


# Who are we looking for?

We're focusing on industrial **circular and carbon smart demonstration projects** with TRL 6-8. Specifically companies in the following domains:

Bio based technologiesWaste-to-chemicals/fuelsCCU (Carbon Capture &<br/>Utilisation)Renewable energy storage<br/>& H2 technologies









## In tune with the world

