Antwerp Port of the Future

a 'smart' port strategy

Nico De Cauwer June 2019





Importance of the port Belgium's biggest economic driver 235 12.068 15 million TEU Million tonnes hectares of freight capacity 之 20,3 143.058 4,8% 900

GDP

companies

billion €

added value



jobs

Business plan 2018-2020

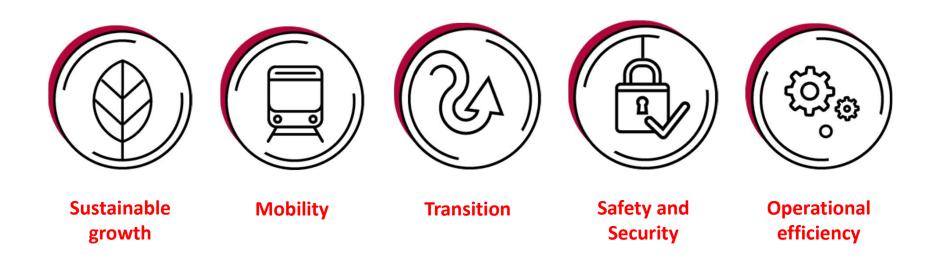
Mission:

A home port as a lever for a sustainable future





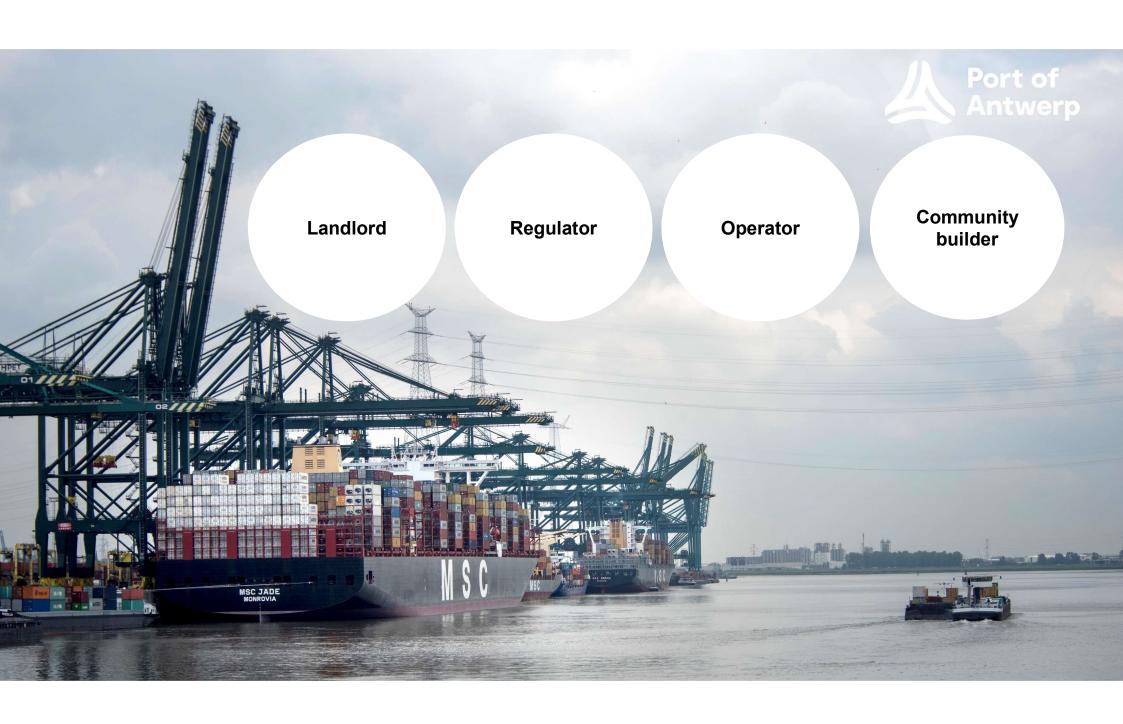
5 strategic priorities for 2020

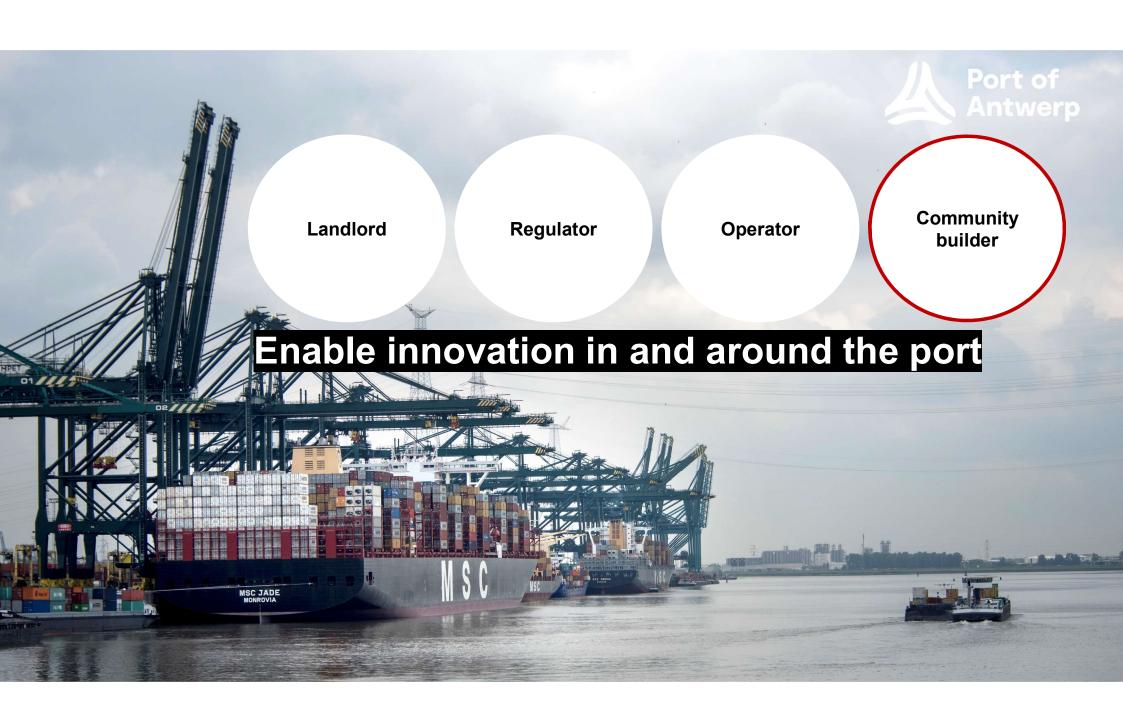




Domain	Theme	Sustainable Growth	Mobility	Transition	Safety & Security	Operational Excellence
ENERGY	CARBON CAPTURING & STORAGE					
	HYDROGEN					
ENVIRONMENT	SENSORS (eg. air quality)					
NEW ECONOMY	3D PRINTING					
AUTOCONTROL	SMART SHIPS					
	DRONES					
SMART PORT	INTERNET OF THINGS					
	AUGMENTED / VIRTUAL REALITY					
	BLOCKCHAIN					
	ARTIFICIAL INTELLIGENCE					
	BIG DATA (NxtPort, Cpoint)					











NxtPort

Building the Port of the Future, Together

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AN OPEN PROJECT

BY & FOR THE COMMUNITY

w/ LOW ENTRY BARRIER



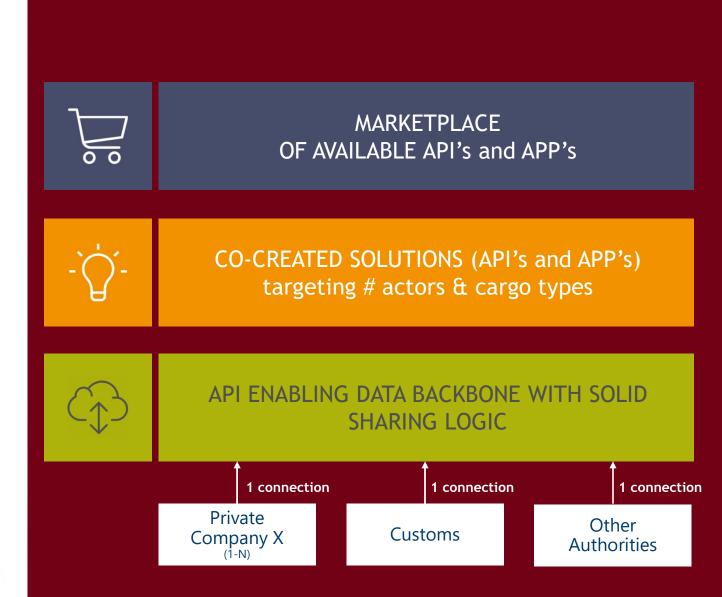
DATA PLATFORM MARKETPLACE

w/ STRONG DATA GOVERNANCE

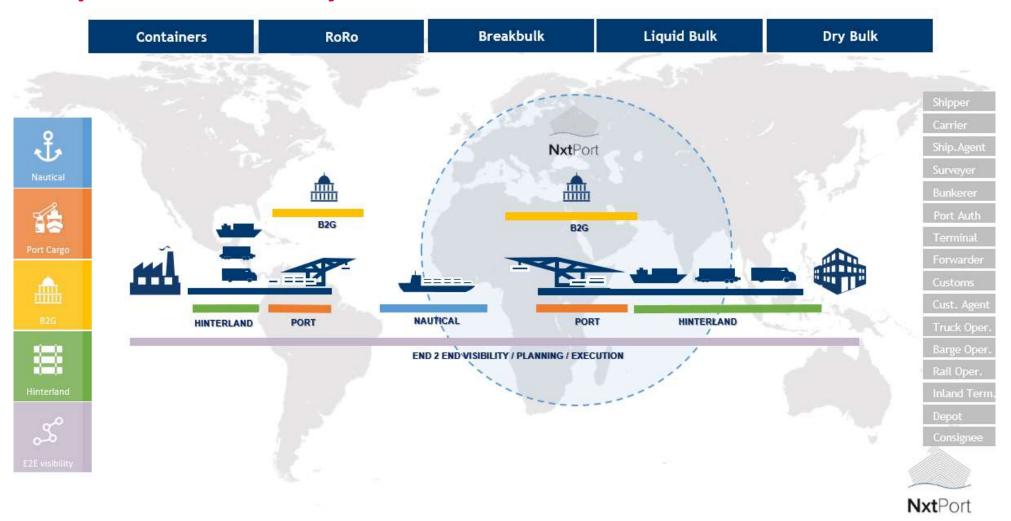
enabling



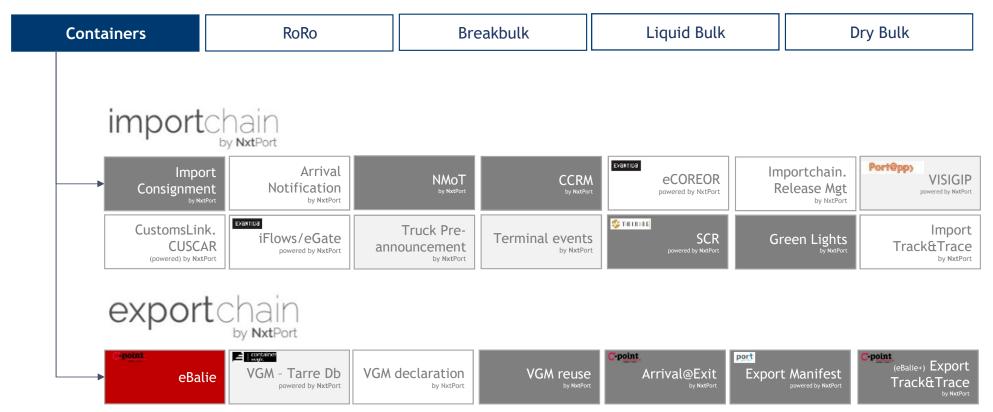




Nxtport: The activity canvas



Nxtport: The activity canvas





NxtPort data assets leveraged beyond EDI



Library extensive range of data sources







Pitstop a coordinated file

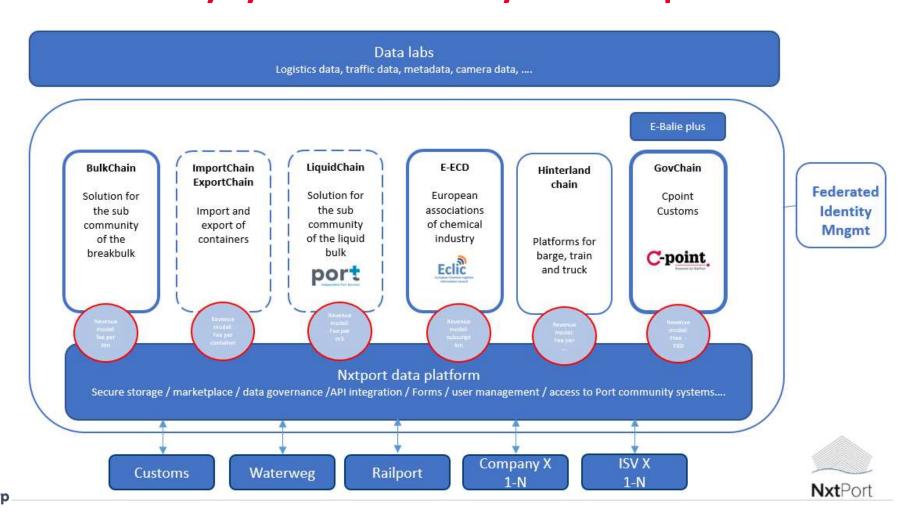




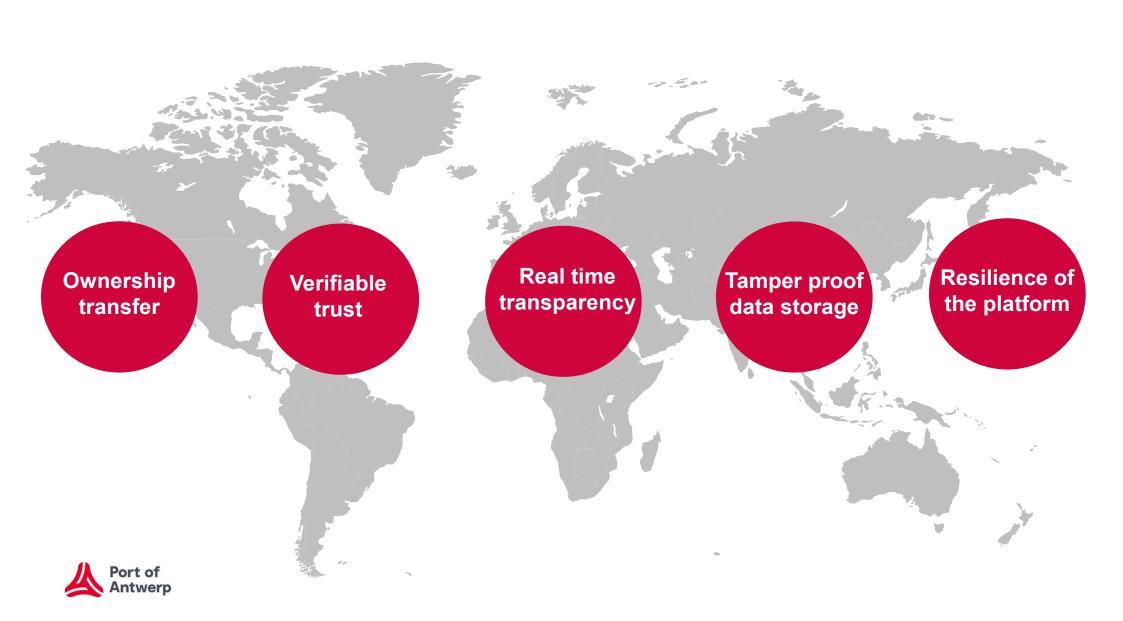
'Waze'
Anonymized overview 4 dynamic behavior



Our Port community system enabled by the data platform

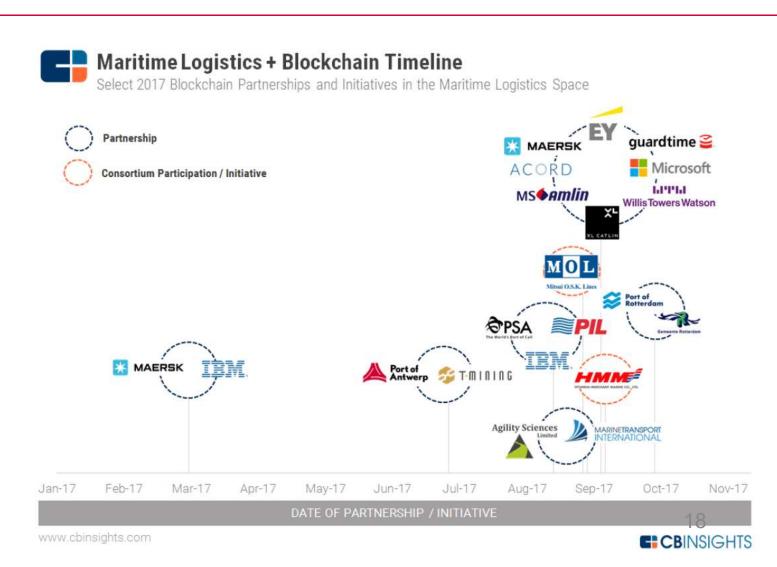


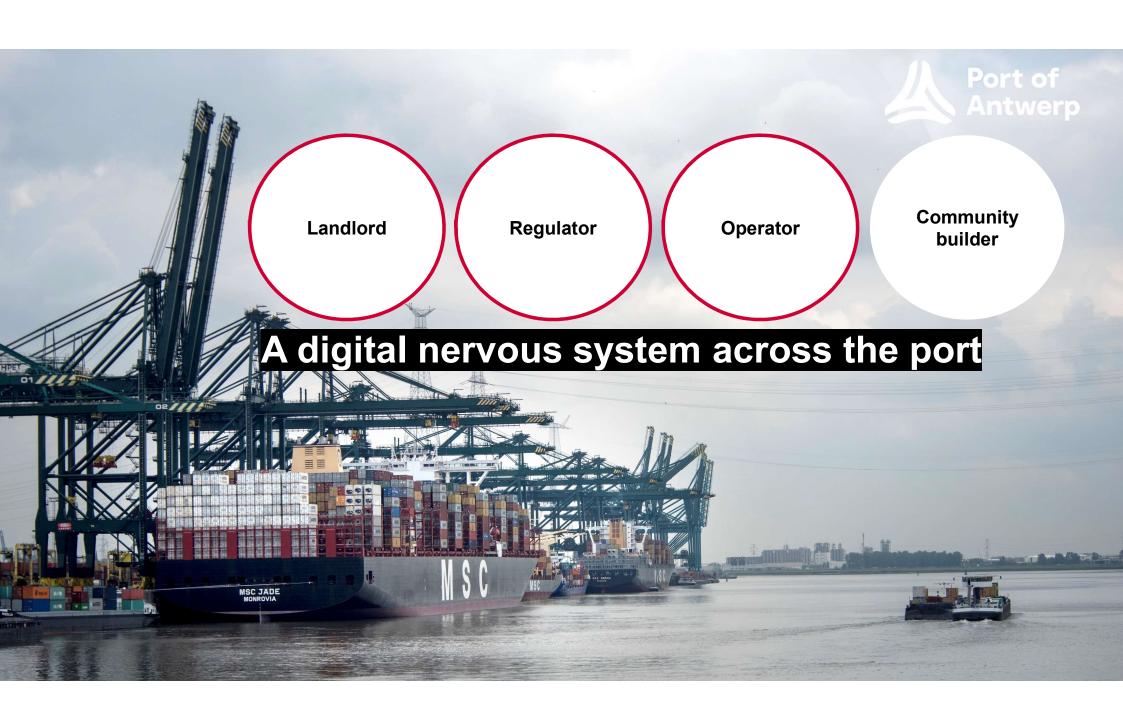




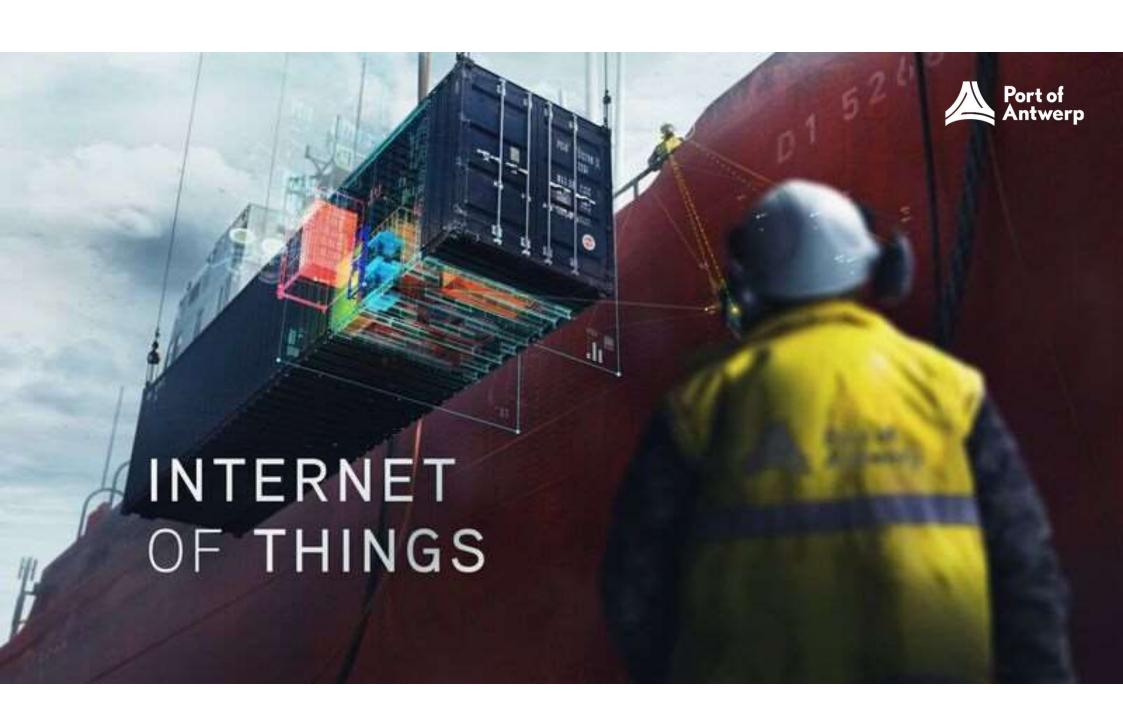
Early adopters in the maritime supply chain





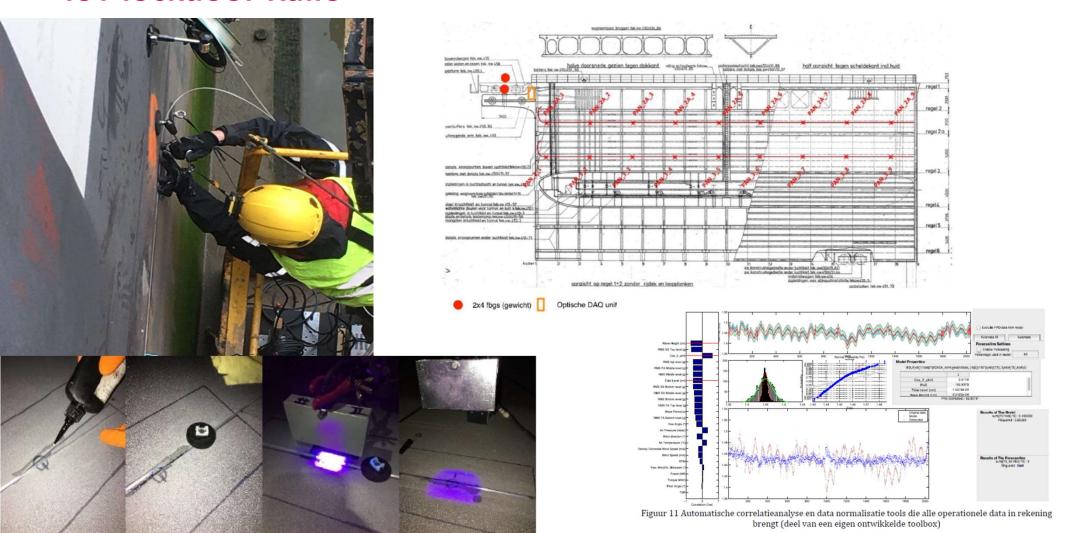








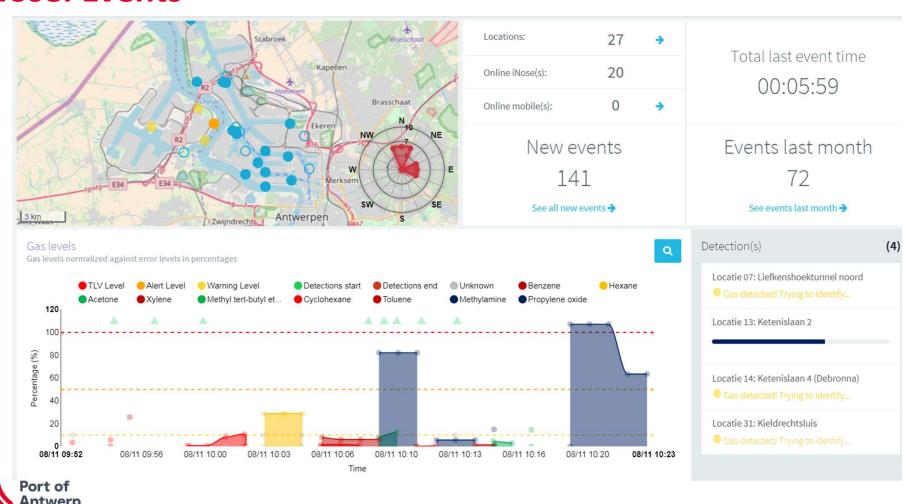
IoT lockdoor Kallo

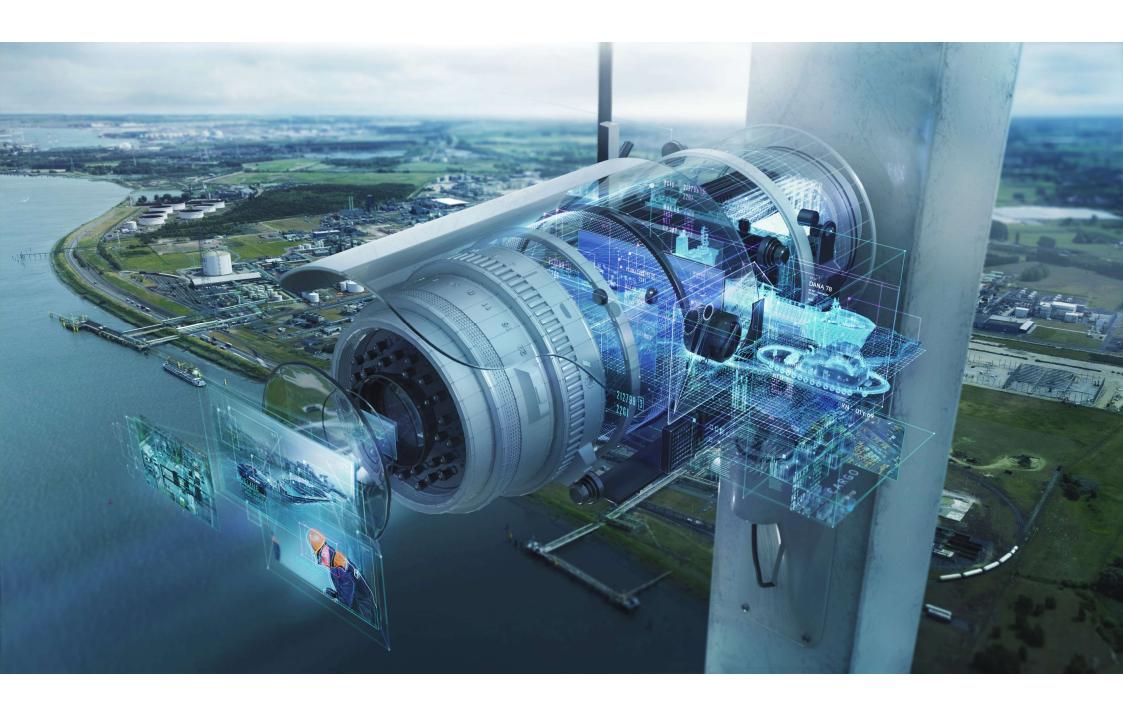




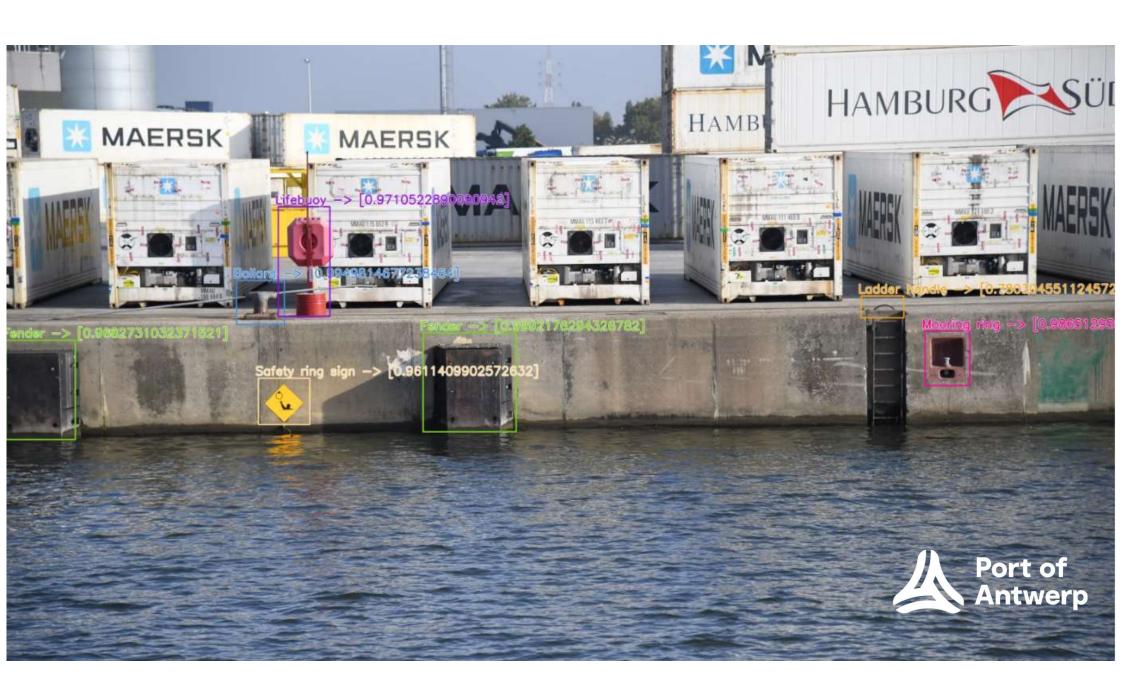


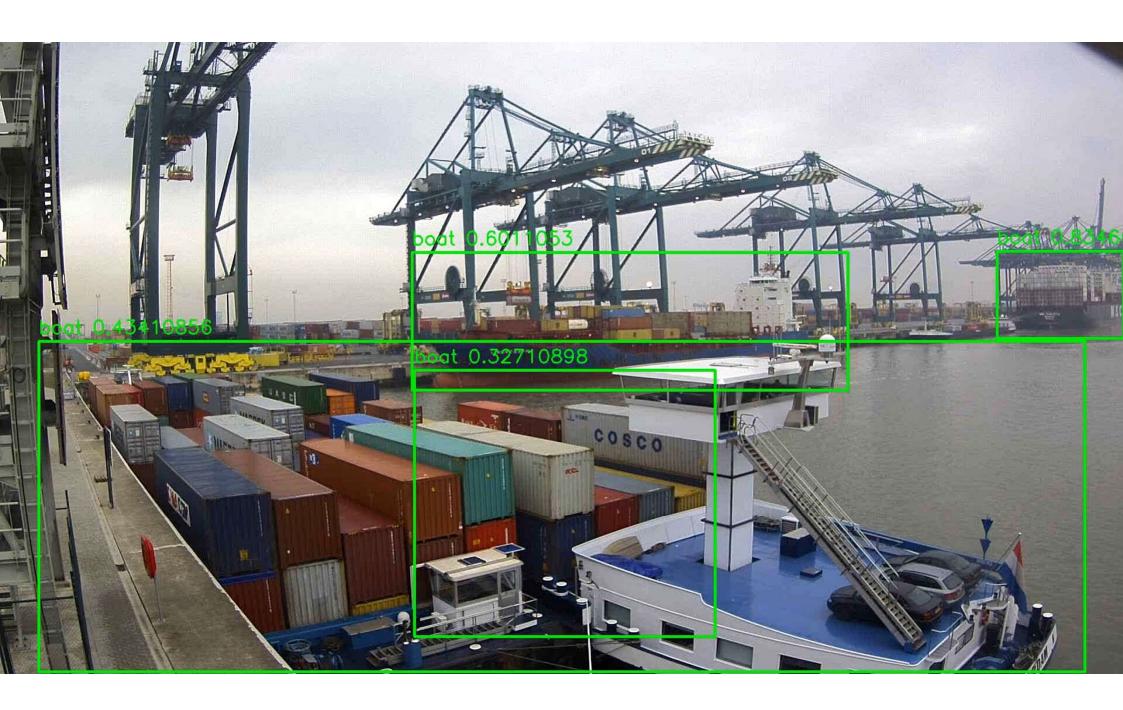
iNose: Events

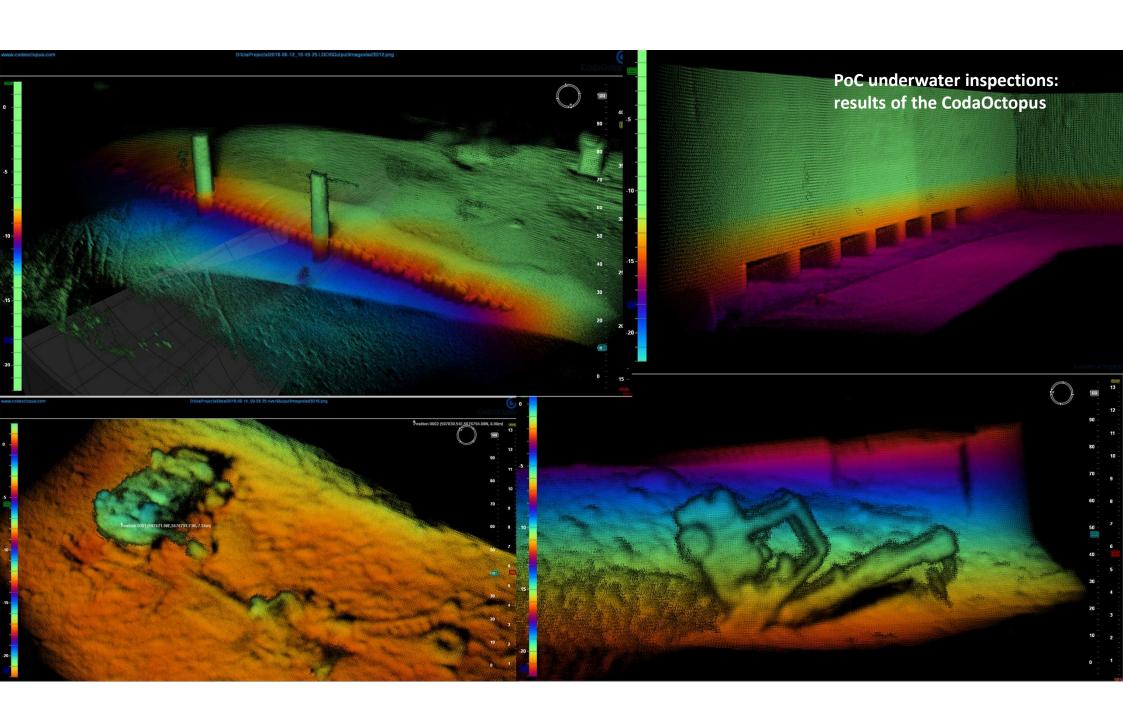


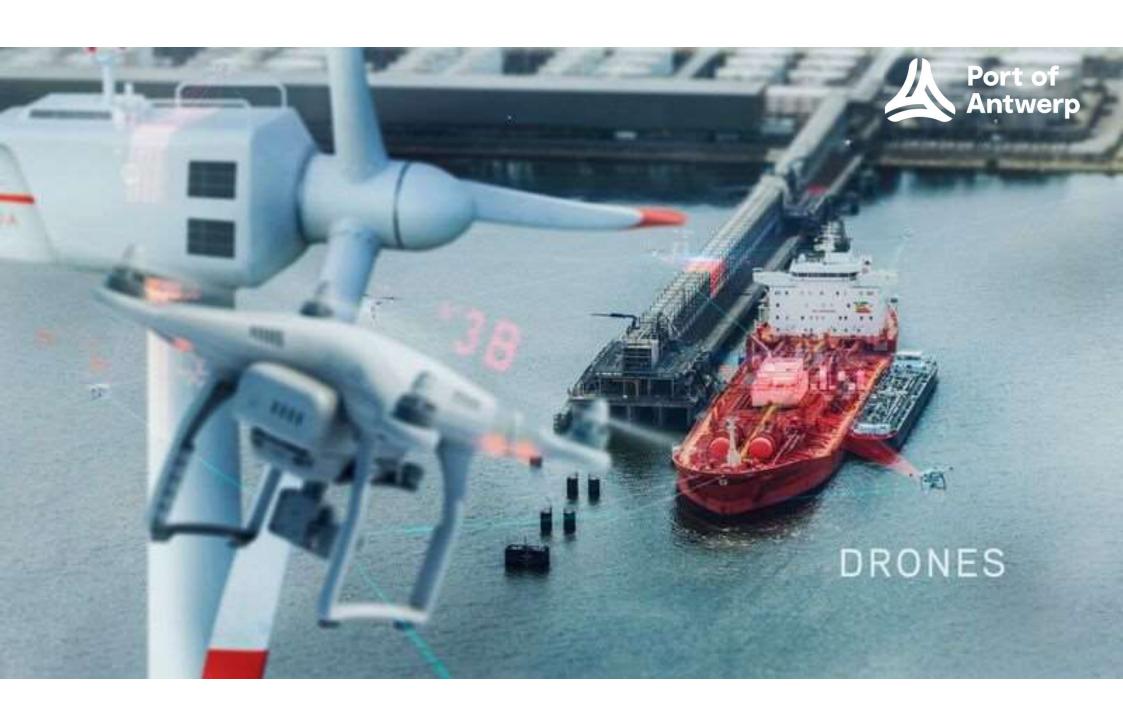


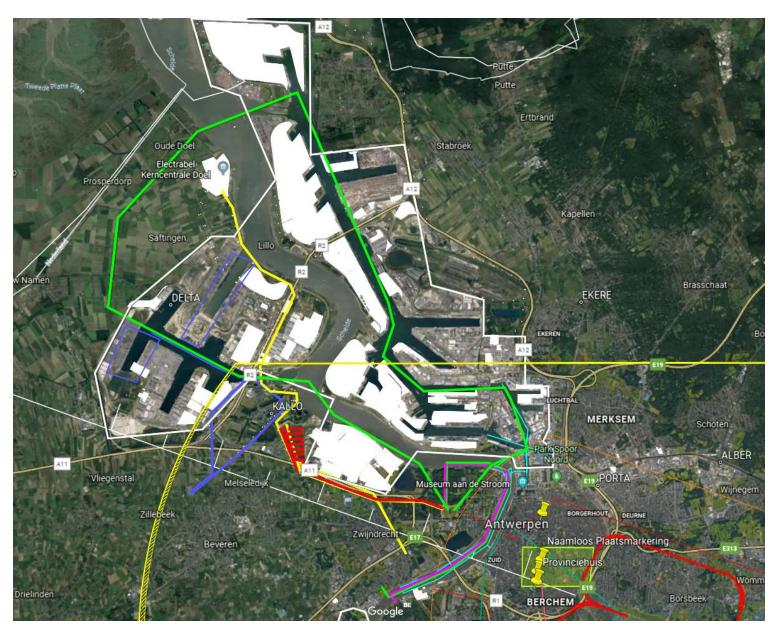












- BVLOS Oil spill detection Antwerp Port Area
- Parcel delivery from Wijnegem Shopping Mall
- Simulated parcel delivery Antwerp Port Border
- Medical parcel delivery
- High tension line inspection/mapping
- Overhead line incident intervention and pylon inspection
- Port inspection of criminal offenses
- Inspection container terminal for Port Authorities
- Monitoring cooperative and non-cooperative drones

Milestones SAFIR

