Port of Antwerp smart port and innovations

Ms. Kirsti Gjertsen
Segment Manager Automotive

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Total throughput 271mio ton/ year



Largest car handling port in the world +3,5 mio vehicles/year



Largest chemical hub in Europe



15% of EUgas market



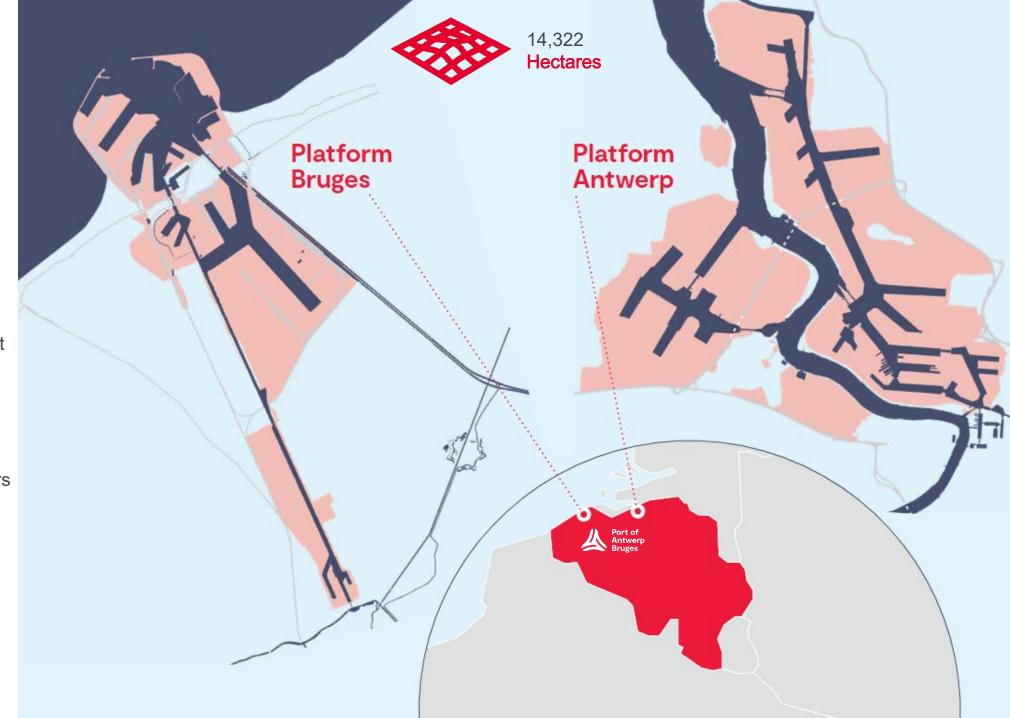
Important **cruise**port in Benelux
+300,000 passengers



164,000**jobs**Direct and indirect



1,400 Companies



How to become a 'smart port'?

Five pillars that guarantee long -term impact











Integrated port operations

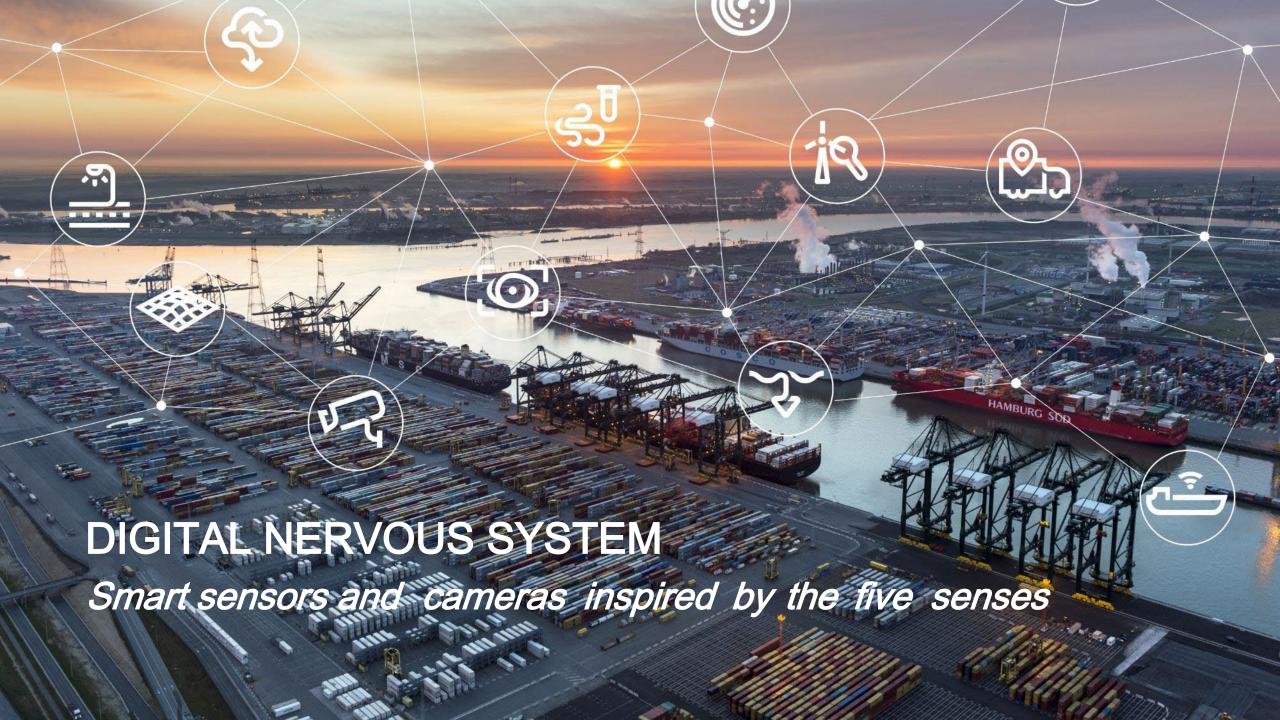
Adaptive modal shifts

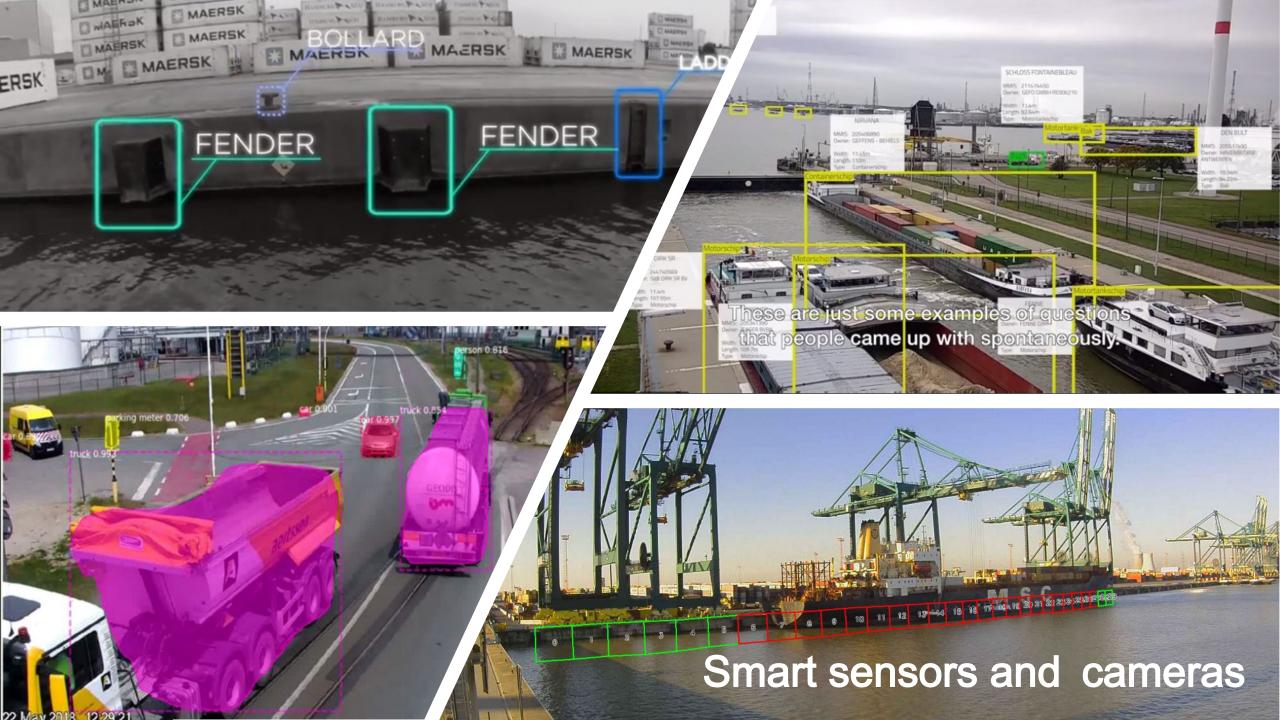
Security

Impact on climate and ecology

Digital talent and ecosystems







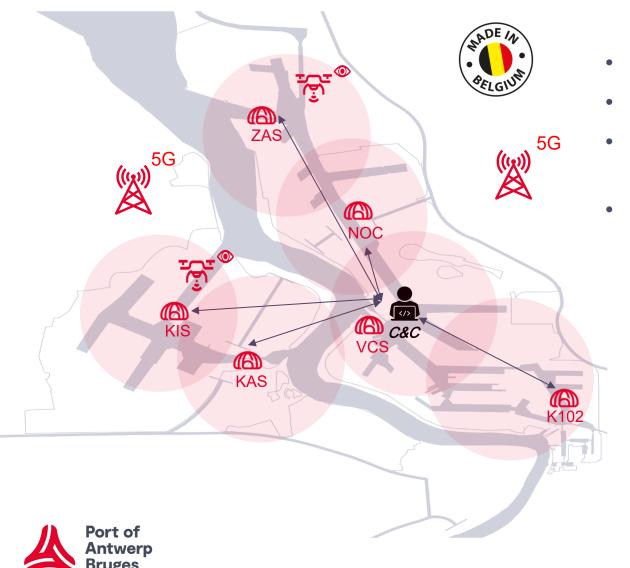




"The smart port has a network of autonomous drones that fly beyond visual line of sight several times a day and transmit data in real time"



Drones – Europe's first recognised 'U-space'



- 'D-Hive' netwerk of 6 automated drones (2021)
- 'Drone as a service': 18 flights a day 24/7
- 'Beyond Visual Line of Sight' (BVLOS) operations above water
- PoAB as Europe's first recognised 'U-space' or airspace for drones (2025)





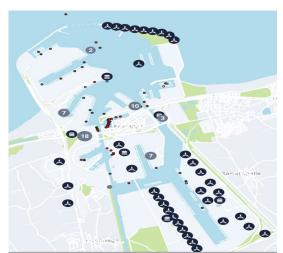






Antwerp Port information and control assistant (APICA)

Digital Twin



Al-planning prediction





3D-avatar









AI-Chatbot

APICA can you tell me more on PSA

PSA International (PSA) is a leading global port group and a trusted partner to cargo stakeholders. With flagship operations in PSA Singapore and PSA Antwerp, the group's global network encompasses 160 locations in 42 countries around the world. A few key points about PSA:

- 1. Global Presence: PSA operates in many key hubs around the world, including major ports in Europe, Asia, and the Americas. This extensive network allows them to facilitate global trade efficiently.
- 2. Sustainability: PSA is committed to sustainable development and actively seeks to reduce its environmental footprint
- 3. Technology and Innovation: PSA invests in state-of-the-art technologies like automated guided vehicles, port management systems, and other smart logistics solutions to optimize port operations and enhance efficiency.
- 4. Customer-Centric Solutions: PSA aims to provide seamless and efficient services to its customers, partnering with stakeholders to deliver integrated and value-added solutions in the supply chain.
- 5. Awards and Recognition: PSA has been recognized with numerous awards for its outstanding performance and contributions to the port industry.

For more specific or detailed information, you can visit PSA International's official website or reach out to their customer service team.

Verander Topic

Typ een bericht







Al-Anomaly detection







Digital twin

Geographic Information System (GIS)

Automatic
Identification
System (AIS) =
vessel tracking
data

Mooring locations

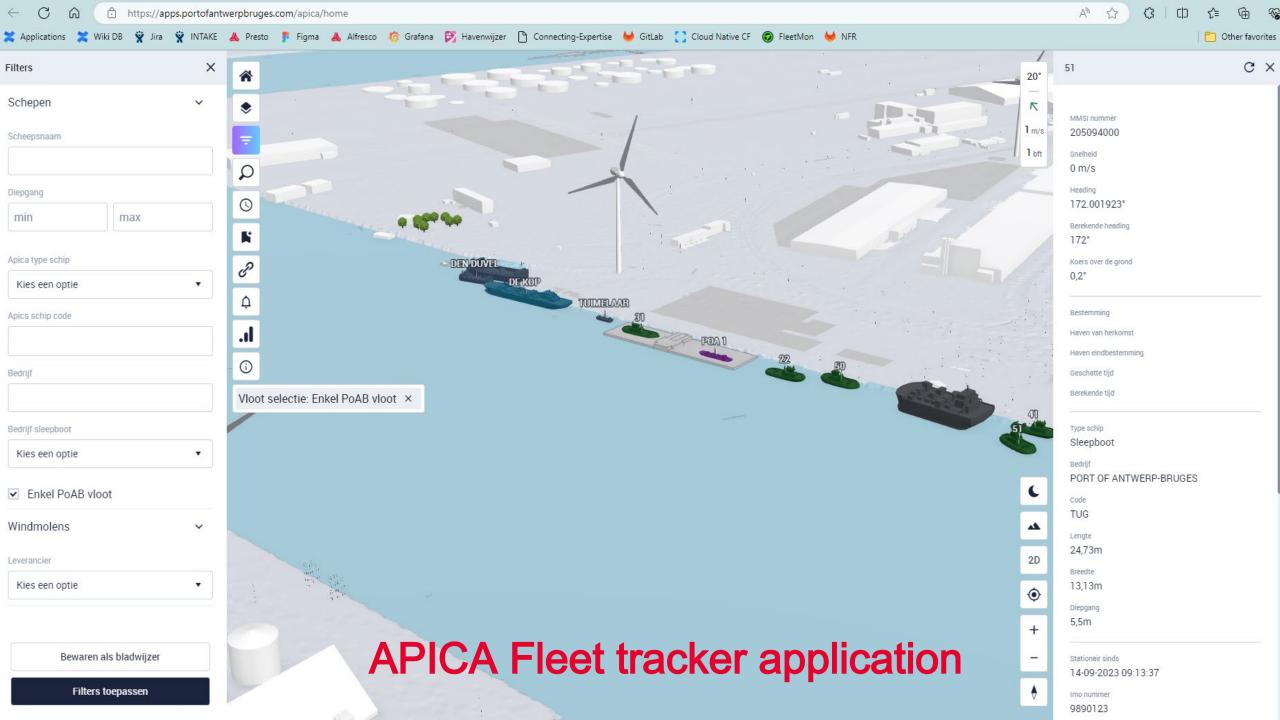


Windmill info

Nautical management broadcast messages

Air quality monitors









PORT of the FUTURE Autonomous summit



16 sept - 10u tot 17u Port of Antwerp-Bruges - K102

Contact: Kirsti.gjertsen@portofantwerpbruges.com

