A digital twin to support the energy and ecological transition of ports



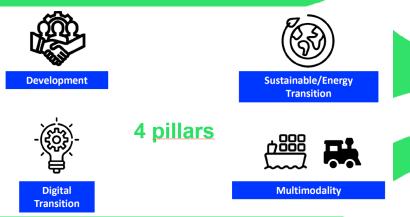


TOC, Rotterdam, June 2024

HAROPA PORT France's leading port

- No. 5 port in Northern Europe
- No. 1 French port for foreign trade and container traffic
- No. 1 European river port for passenger transport
- A population catchment area with 25m consumers:
 - The no. 1 consumer market in France and no. 2 in Europe
 - The no. 1 logistics region in Europe



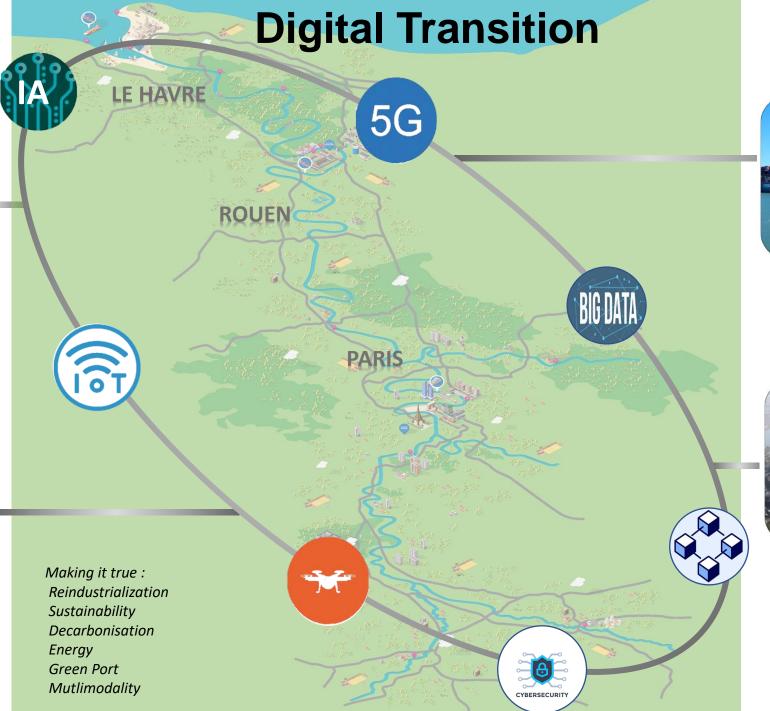


FLUIDIFY AND SECURE GOODS TRANSIT ON THE SEINE AXIS THANKS TO ADVANCED TECHNOLOGIES



BE AN INNOVATION INCUBATOR IN A DYNAMIC ECOSYSTEM





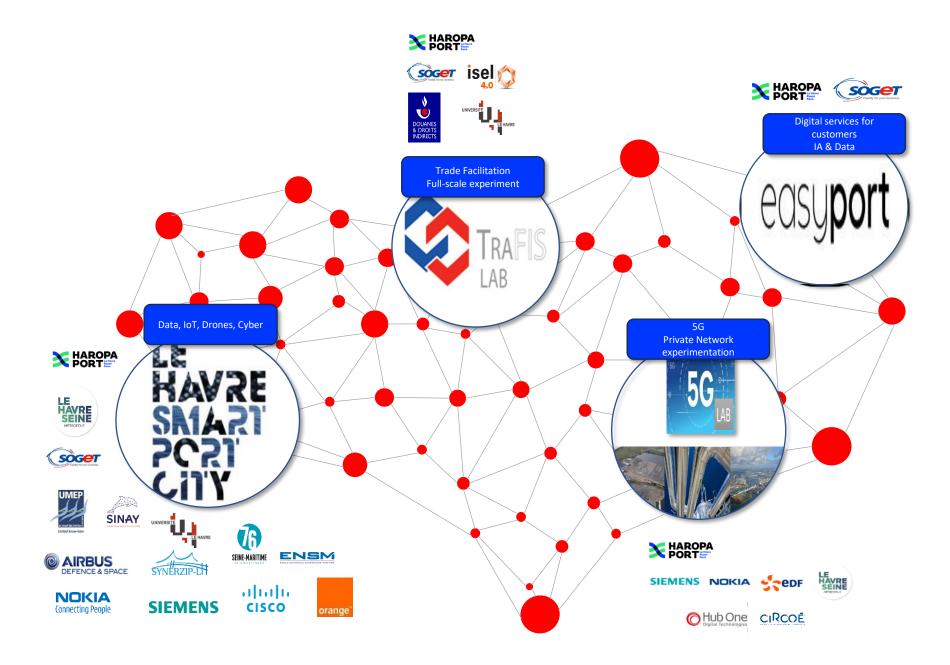


MAKE INNOVATION AN OPERATIONAL PERFORMANCE LEVER



DEVELOP A NEW MODEL OF INTEGRATED URBAN AND INDUSTRIAL-PORT TERRITORY

HAROPA PORT - Innovative Digital Ecosystem





easyport

The software world and the port universe raise the anchor for Innovation

The easyport grouping is an economic interest grouping founded in 2022 between SOGET, a software publisher from Le Havre and HAROPA PORT, a major river-sea port on the Seine axis.

To offer to the actors of the Supply Chain, the best experience of the port passage and the goods

Founded in 2022, easyport's mission is to optimize and make your port flow more reliable and to ensure an optimum transit time. It is at the service of the port world to offer you innovative solutions to go even further in the fluidity of commercial exchanges.

More about Us »









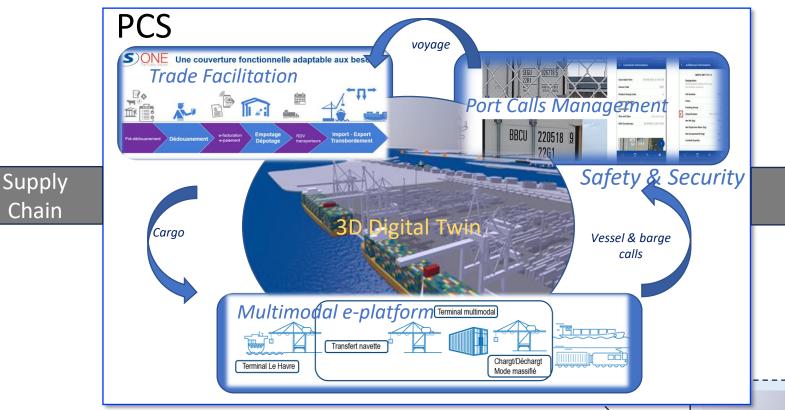


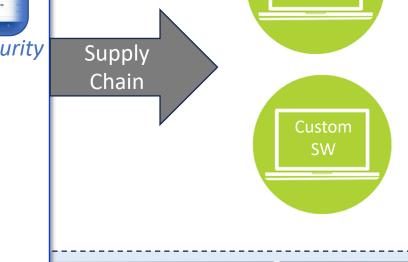






PCS 4.0 - Streamline & secure goods on the Seine axis





Connected

Digital Twin

EMSW





- PCS New generation
- Deployed on the Seine River Axis
- Full process digitalization
- Highly automated logistics
- Multimodality facilitation

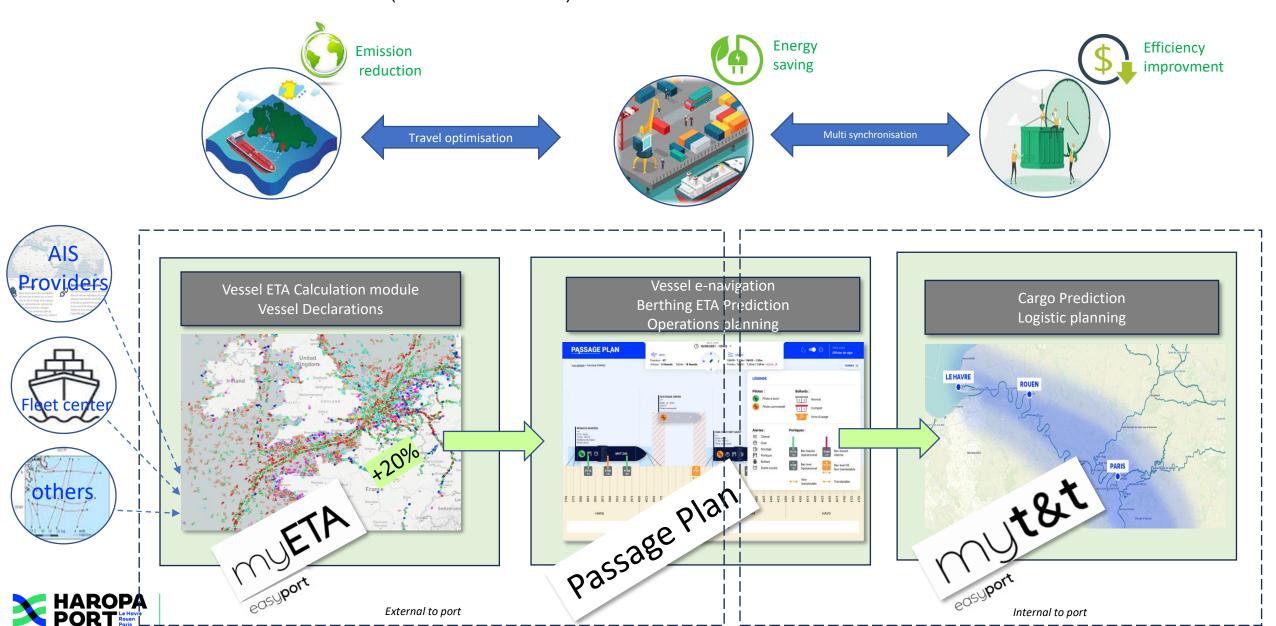
A Digital twin for seamless vessel operations



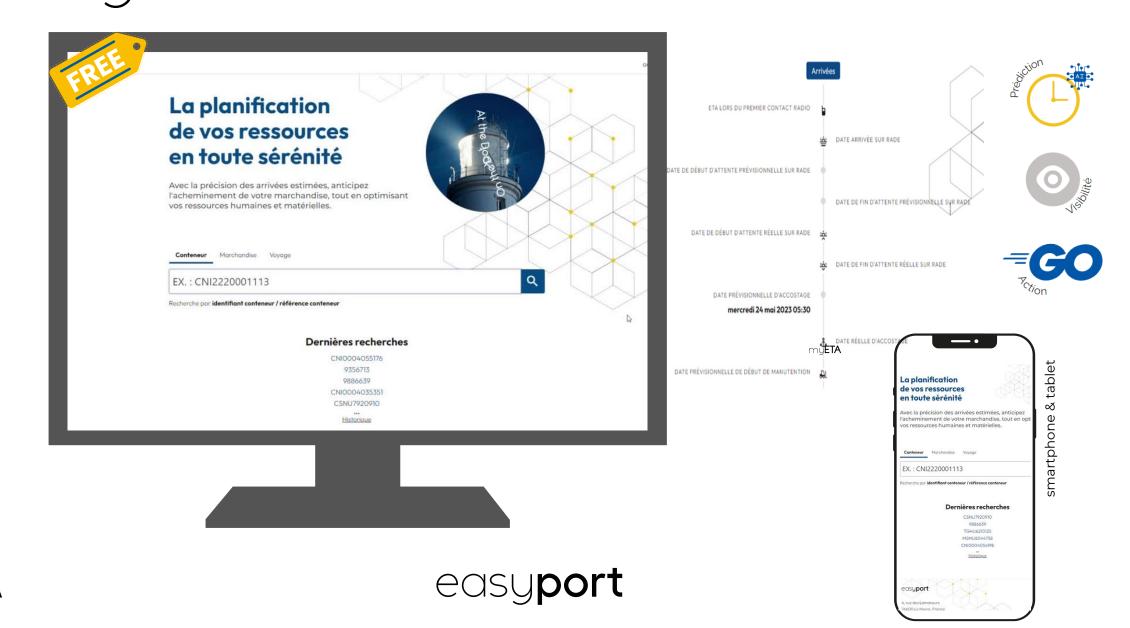




(Phase 1 achieved)



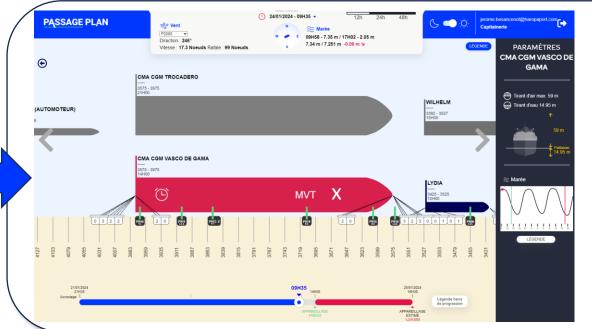
Men will your goods arrive at HAROPA PORT?



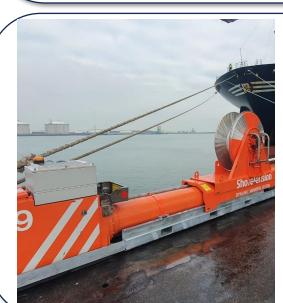


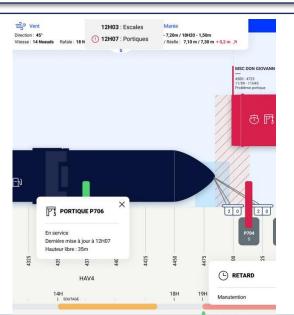
Passage Plan: digital modeling of quayside port operations

- Nautical information (real & predictive)
- Operational information (real & predictive)
 - Berth stay
 - Ship draft
 - Ship air draft
 - Clear under keel
 - Tide progression
 - Wind, gusts
 - Mooring tension and lines
 - Metric points, mooring bollard
 - Gantry crane states, location
 - Ongoing progress report
 - Operations
- Stakeholders' agendas sharing
- complementary system to the PCS













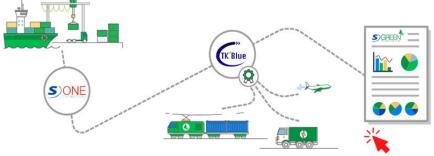
myt&t visibility of

your goods' movements



Precise measure for **GHG** reports







Reduce internal costs related to meeting CO2/GES and CSR regulatory obligations.



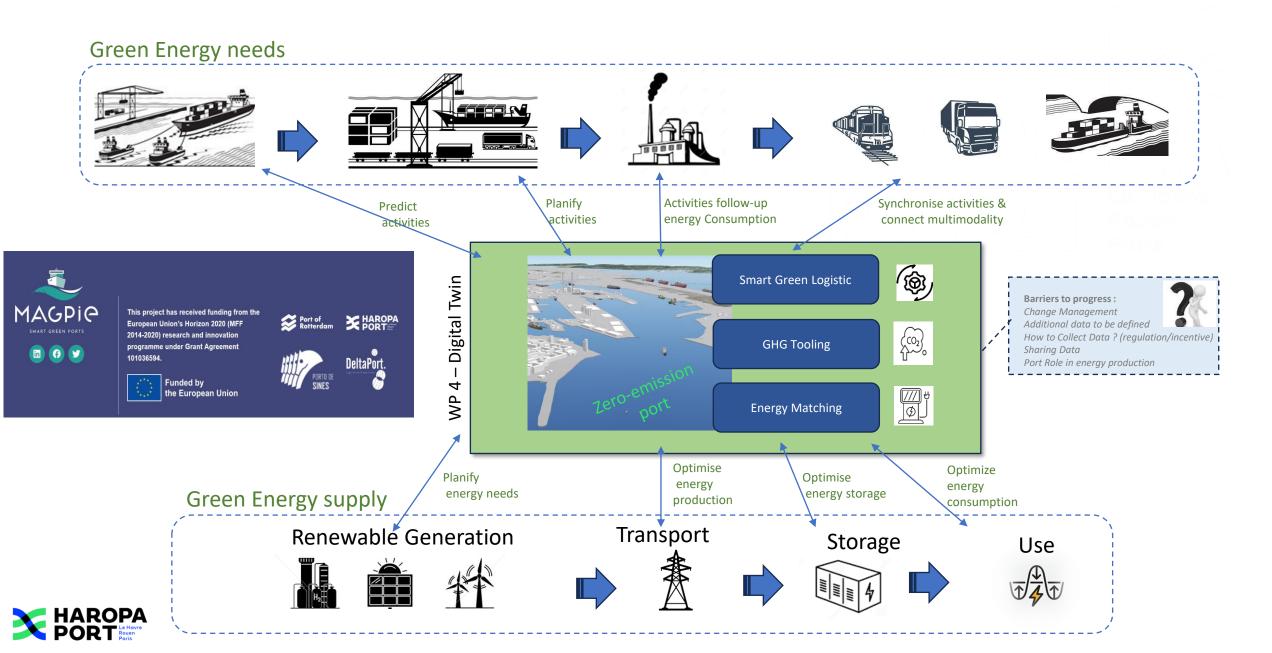
Check the relevance of choices and collaborate positively with transport providers.



Use reliable indicators to initiate an improvement plan and share objectives with customers.



A digital twin for greening Port operations (phase 2 in 2025)



Thank you for your attention!



Connection makers

