



Jan Gardeitchik

Port of Rotterdam 1982-2017

Head of Harbour Master Policy
Head of Transport & Environmental Safety
General manager Noxious and Dangerous Goods
Different advisory roles



Port of Fujairah 2017-2018

Corporate HSE executive

Port of Rotterdam 2018-Present

Senior Lead Digitalisation

Maritime Port Management Systems



Last 6 years:
Best infrastructure in the world.



What's next?

Lots of new digital initiatives around the world

Turvo Automates Supply-Chain Tracking

Logistics startup bags \$25 million Series A led by Activant Capital

Maersk's Damco enters digital freight forwarding market with Twill

GE, Port of Los Angeles launch supply chain visibility pilot program

Amazon takes on UPS and FedEx with its own delivery service

Maersk, Alibaba team up to offer online booking of ship places

IBM, Maersk aim to speed up shipping with blockchain technology

IBM and Maersk plan to launch blockchain technology platform that will digitize the shipping industry and all the documentation that goes with it.

Amazon is now managing its own ocean freight

It's the online retailer's latest move to bolster its shipping network.

Port of Rotterdam teams up with IBM to digitise operations using IoT

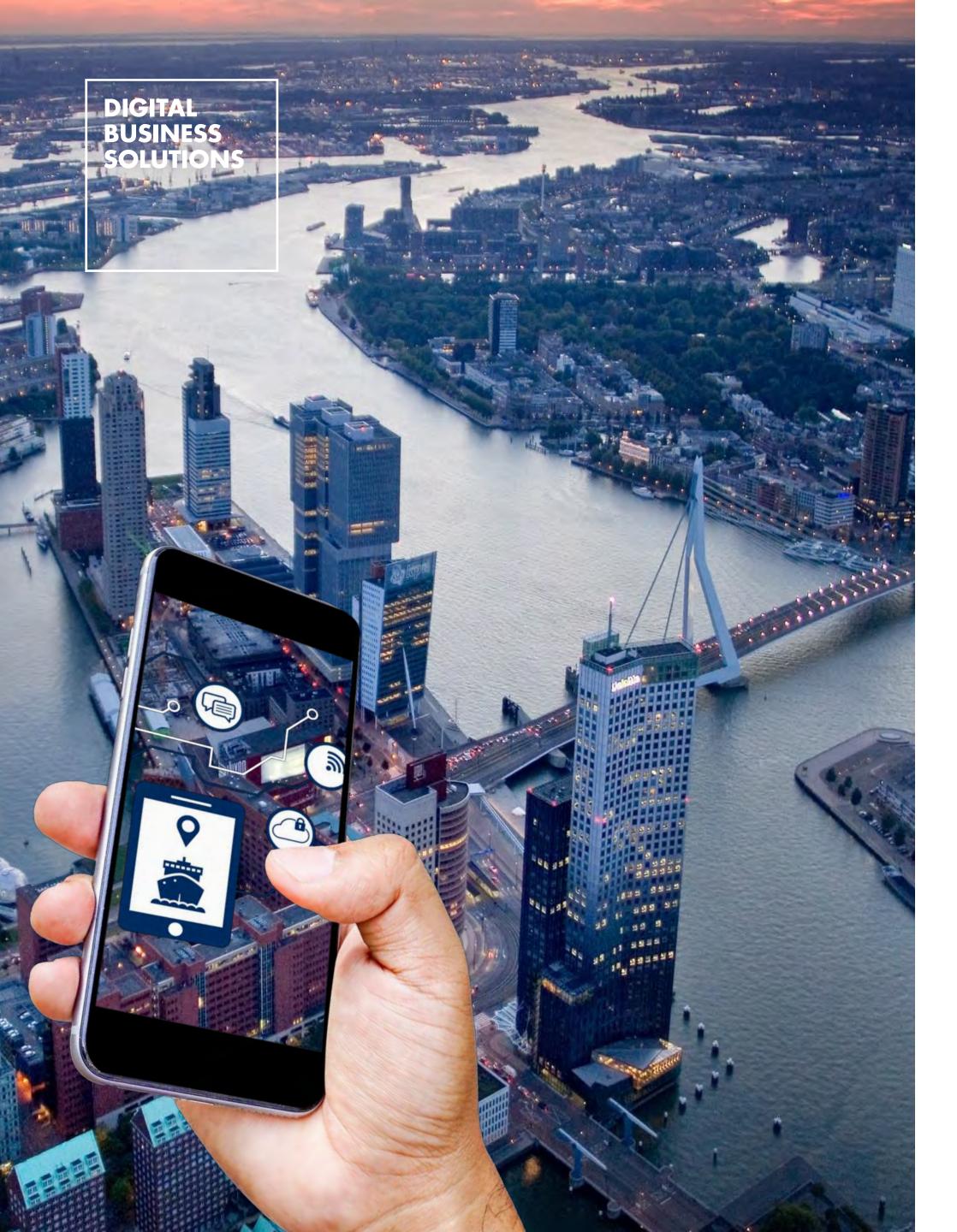


Lots of new digital initiatives at the Port of Rotterdam









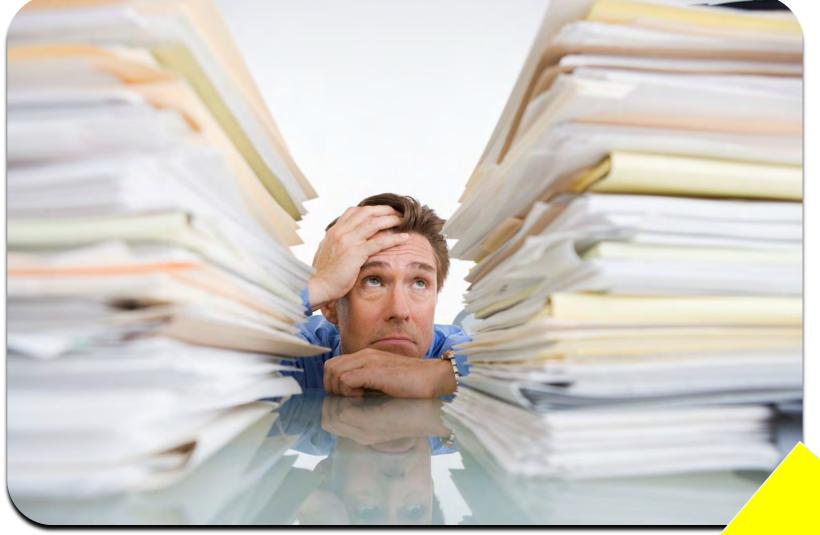
Digital Business Solutions

- We need to take ownership for the development of IT solutions with real business value. As a trustworthy and independent player in the port that can play a directive role.
- Own product development helps to connect effectively to digital trends that impact global logistics and port sectors.
 Deliver digital solutions, data services and support.
- Current and upcoming challenges for Ports will not be solved by IT suppliers. In-depth knowledge of port operations is necessary to develop the right solutions.

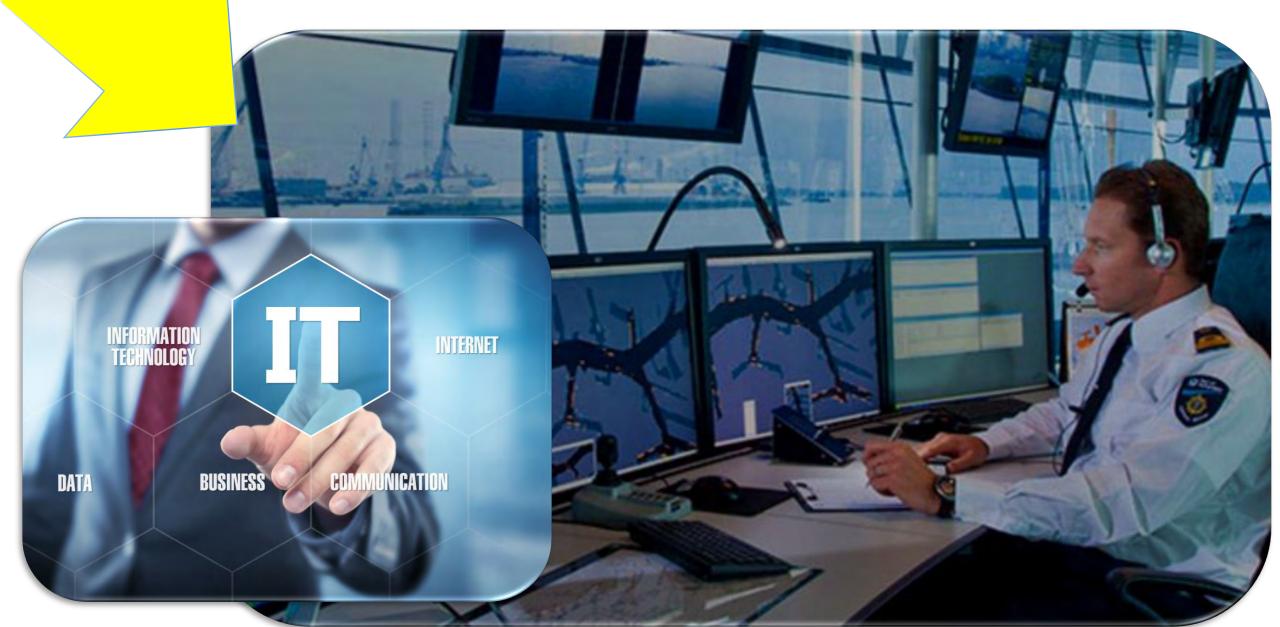
CONNECT. OUTSMART. DELIVER. MAKE IT HAPPEN.



Individual automation Goal this step: Eliminate waste for a single port player



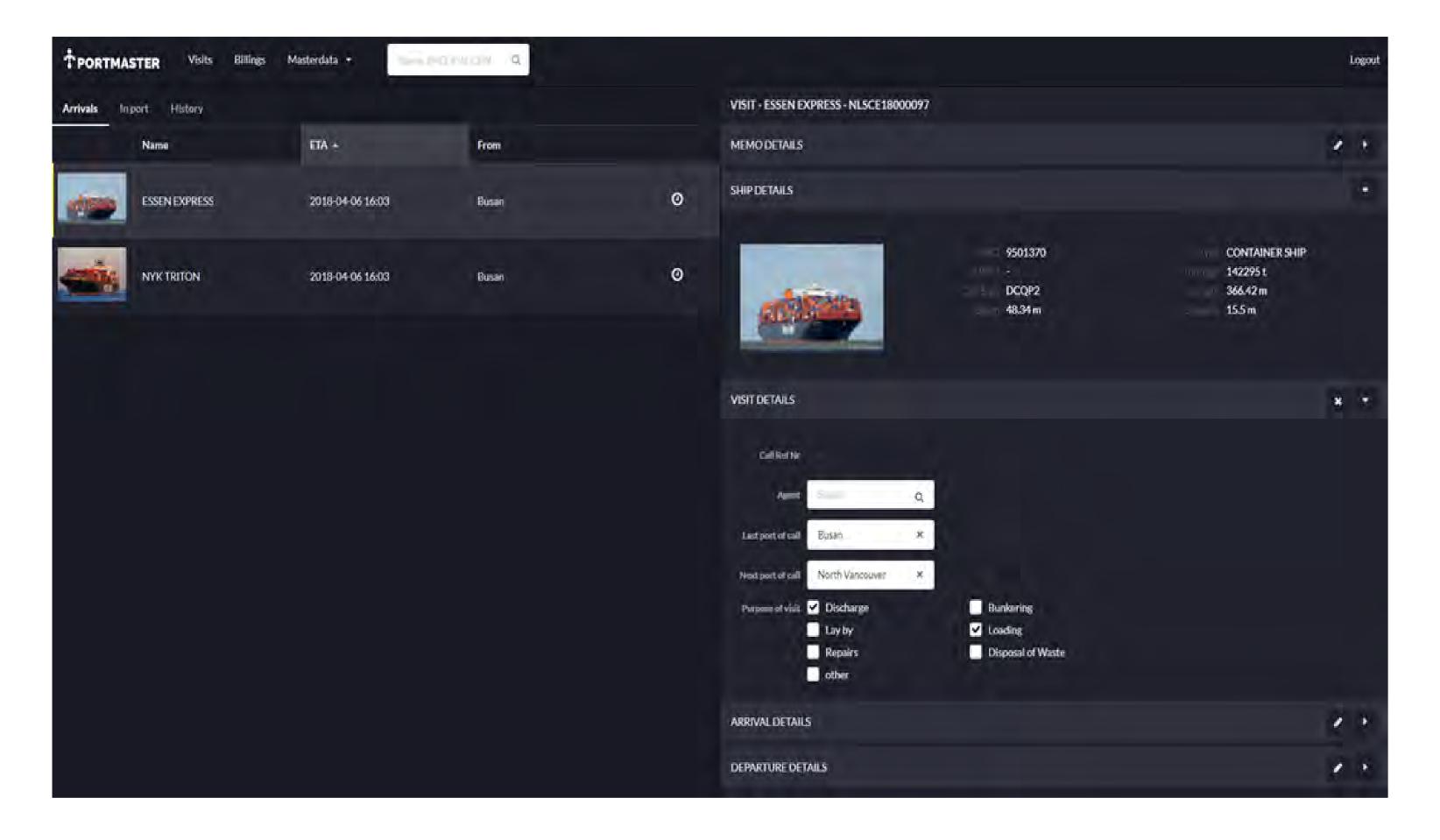








Individual automation



Port Management System



Security: Crucial element in this phase (all phases) directly: How to keep your systems and operations safe as a port?

What do we suggest you have to do?

- Security by design
- Continuous security testing (automated)
- Safe hosting by trusted partners
- Testing and educating the maturity of developers
- SecDevOps



How do we check that we are doing this?

- Bug bounty (involve ethical hackers)
- (Human) Code review
- Vulnarablity scanning (Technical)
- Continious scanning
- Pentesting(code) of products always before launching
- Security operations center (identity abuse of potential attempts of infringenment)
- Team of security officiers full time working on cybersecurity

S logan of our security team: We build it, we run it, we protect it

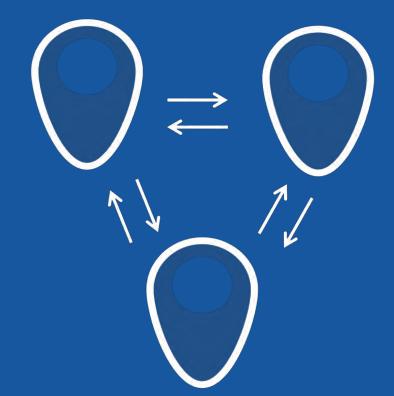




DIGITAL BUSINESS SOLUTIONS Accelerated by Port of Rotterdam

Integrated systems within the port community Goal this step: Eliminate waste in the whole Port Community







60 Global ports

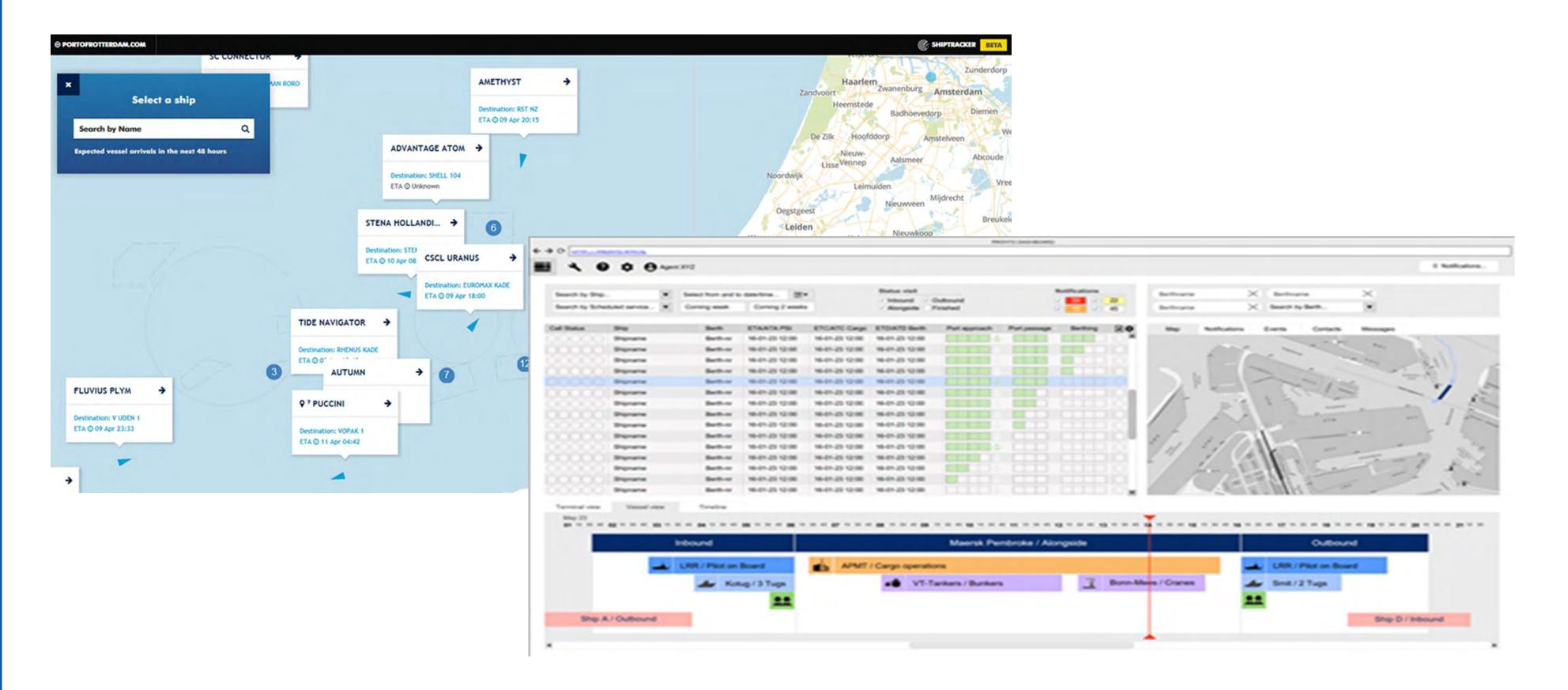
Integrated systems from port to hinterland Goal this step: Eliminate waste from the port to and from hinterland



DISCOVER ALL →

SMART PORT

Global connected ports and logistic chain Goal this step: Eliminate waste in end to end logistic chain

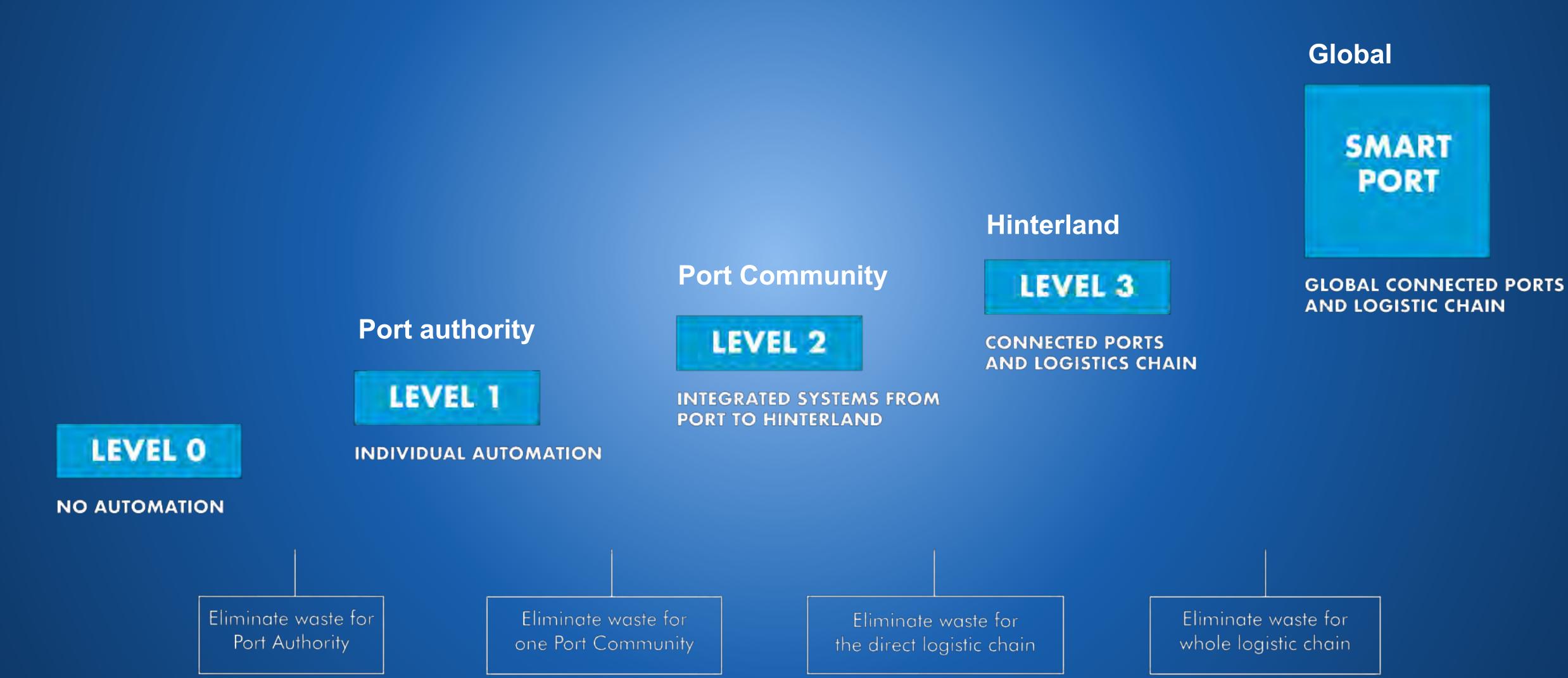




Paul Smits (CFO Port Of Rotterdam) `We will share data with the Port of Antwerp'.

Recap presentation+ Port of Rotterdam vision levels of digitalisation of Ports

Where are you at the moment? And what is your ambition?



Portfolio DBS: levels of maturity digitalisation



- individual automation
- 2 integrated system in the port
- integrated system port to hinterland
- integrated system end to end

Digitalise? Step by step... New technology will also change the way we work

Let's share ideas!

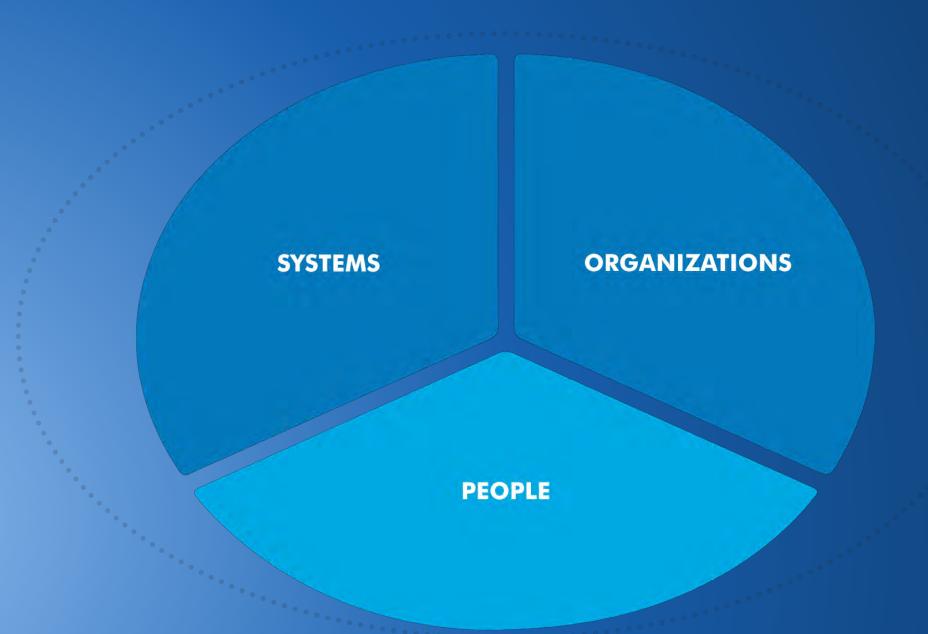


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Accelerated by

