# *Move forward: Step by step towards a digital port.*

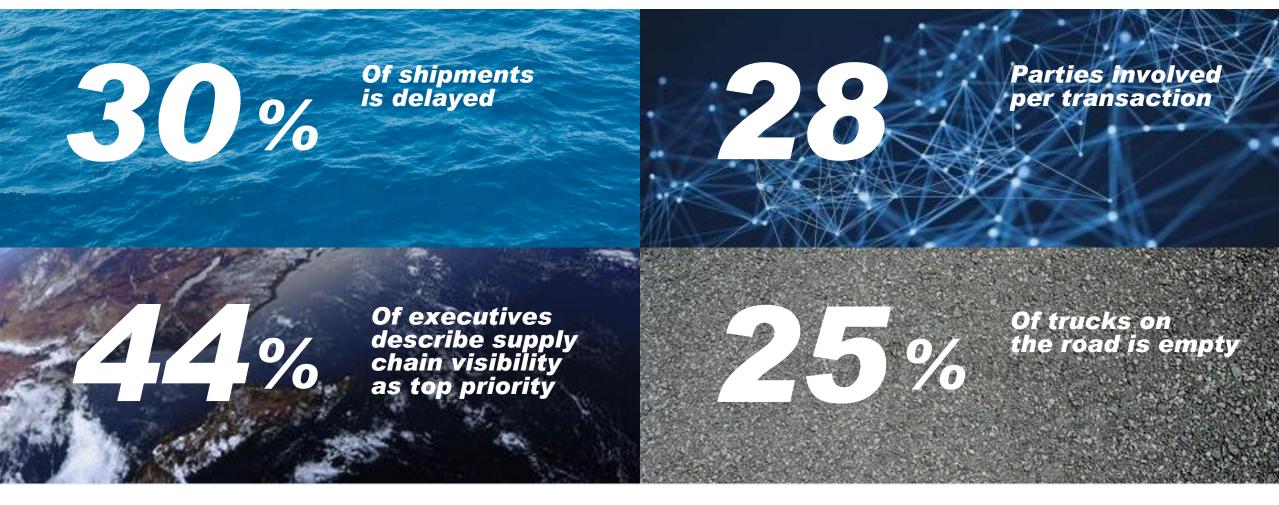


## **Our world in transition**

Faster than we think. With greater impact than we think.



## There is a lot to gain in logistics





## Port call optimisation and CO2 reduction

#### Improvement of port call efficiency

# Better calculation and easier payment of port dues

#### **Reduction** of footprint

#### Improvement of risk awareness



THESE CHALLENGES WILL NOT BE SOLVED BY IT SUPPLIERS ALONE.

# Challenges

WE STARTED BY LISTENING TO OUR CUSTOMERS.



WE BUILT POC'S AND RAN PILOTS IN CLOSE COOPERATION WITH PARTNERS.

SCRUM AGILE: EXPERIMENT, FAIL, LEARN, REPEAT.

IN-DEPTH KNOWLEDGE OF PORT OPERATIONS IS NECESSARY. WE HAVE THAT KNOWLEDGE.

#### The result?

A growing portfolio of market-ready solutions.

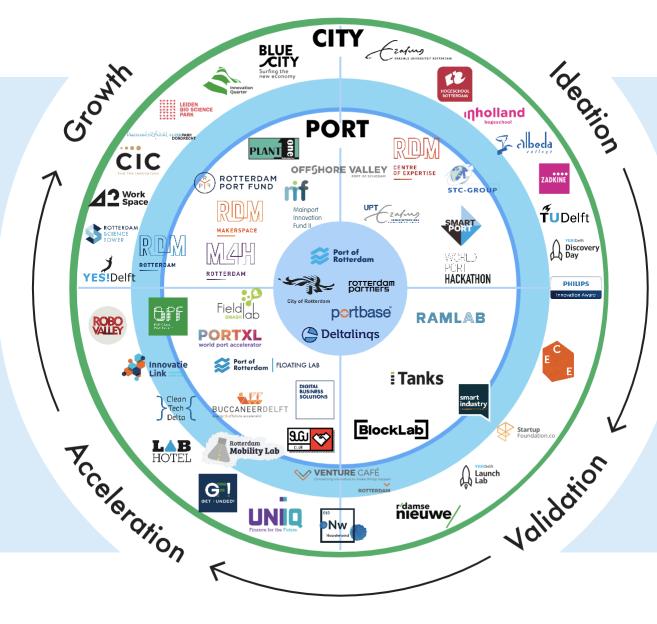
## Next generation port:

Smart and connected, no more waste





### Smartest port











# Imagine a port...



# Step by step towards a digital port





#### Port Authority



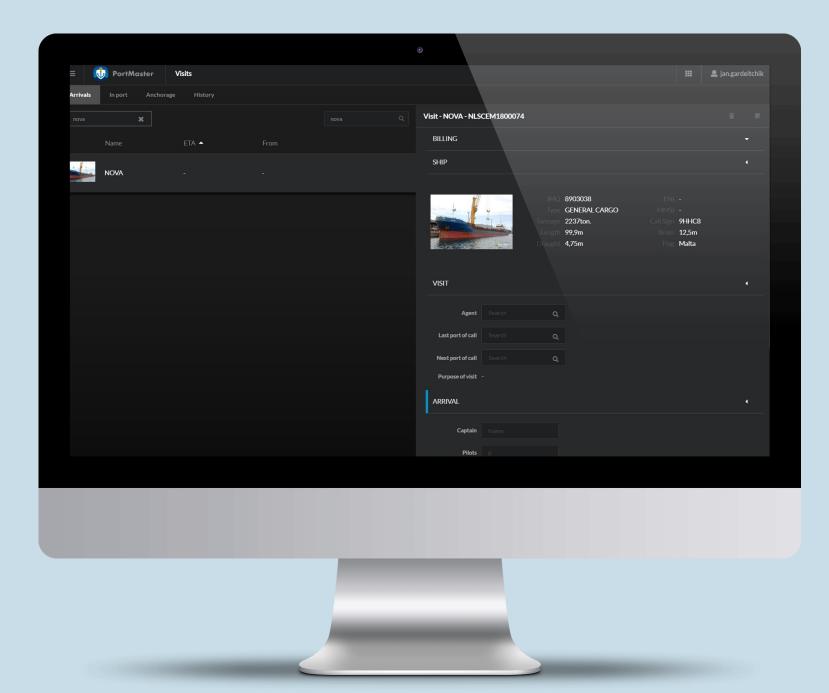
- Accurate administration
- Reduced costs for asset management
- Increased safety in the port
- Better services to port users

#### Port Authority



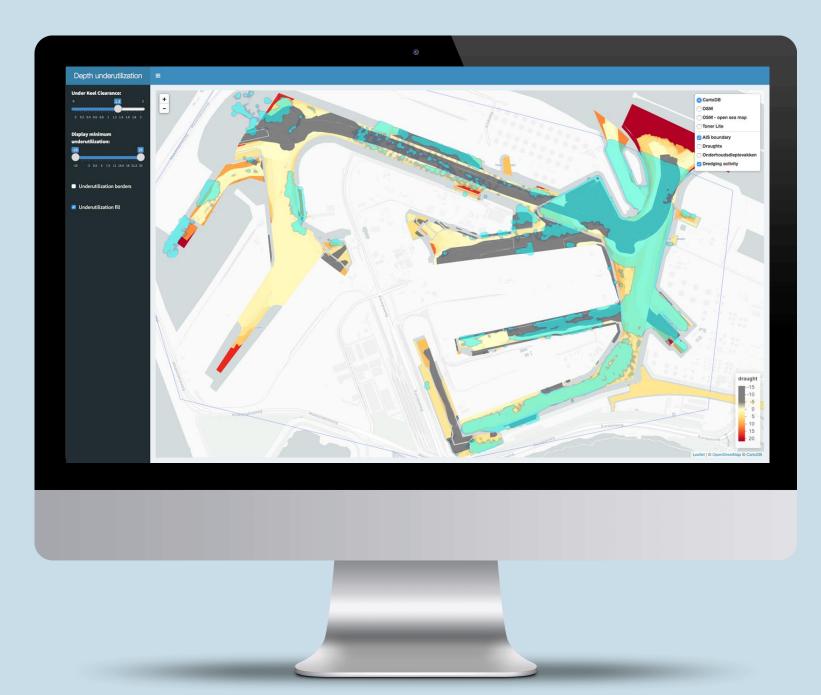
#### Goal

Eliminate waste for a single port player



#### Port Authority





Goal

Eliminate waste for a single port player

#### Port Community

2



Paperless cargo journey and one single source of truth (ETA / ETD)

• Increased efficiency because of better coordination and scheduling

• Slow steaming, reduction waiting times and CO2 emissions

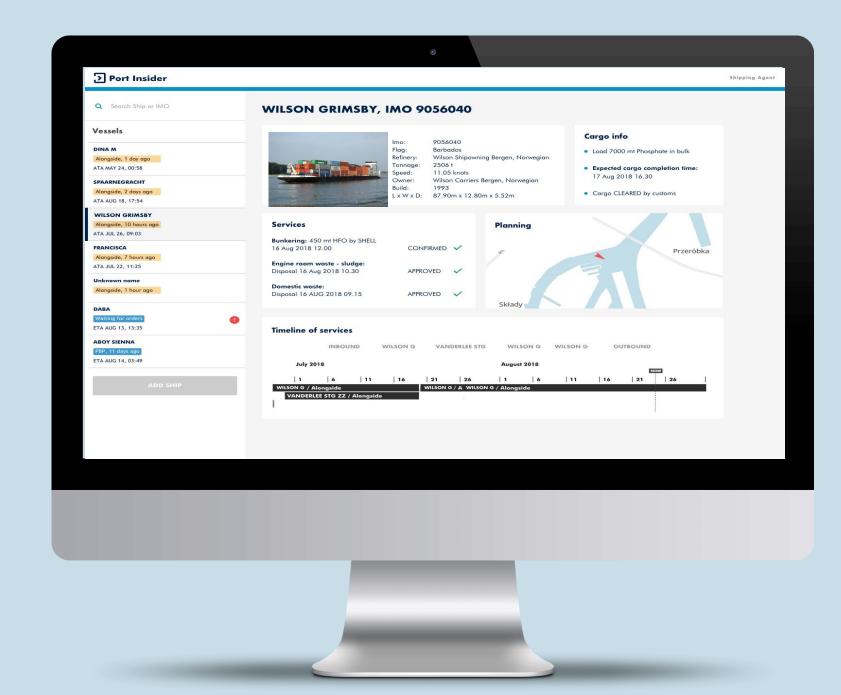
#### Port Community



INTEGRATED SYSTEM IN THE PORT

Goal

Eliminate waste in the whole Port Community.



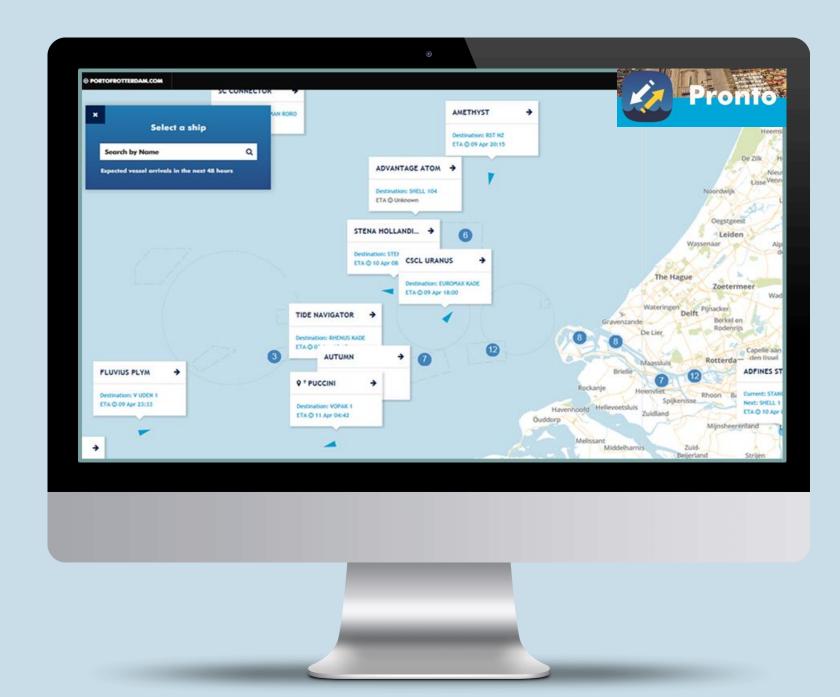
#### Port Community

2 INTEGRATED SYSTEM IN

**THE PORT** 

Goal

Eliminate waste in the whole Port Community.





Hinterland

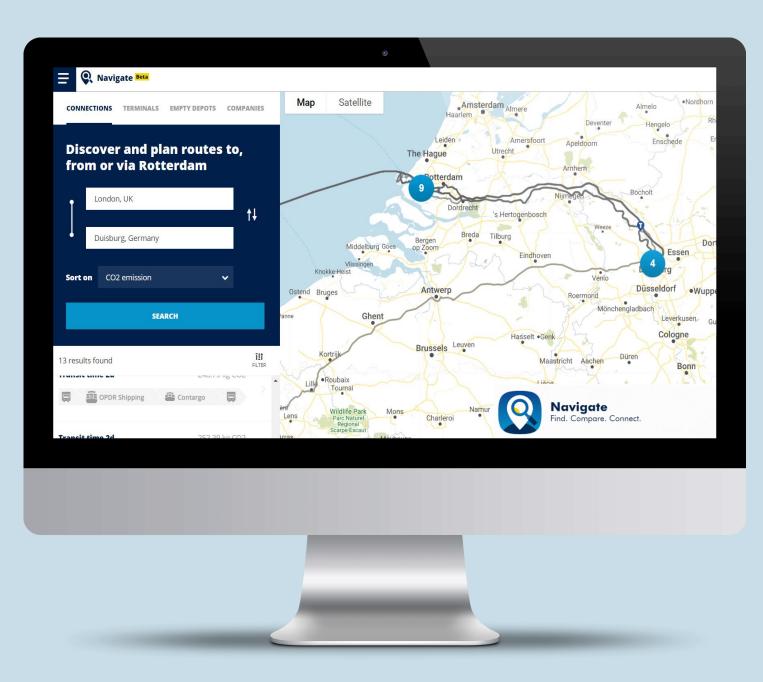
3

- Faster and cheaper transit by combining cargo
- Better match supply and demand (cargo and transport modes)
- Track and trace of modalities

#### Hinterland



INTEGRATED SYSTEM FROM PORT TO HINTERLAND



#### Goal

Eliminate waste in the direct chain.

#### Hinterland



INTEGRATED SYSTEM FROM PORT TO HINTERLAND

		•		
	DETAILS			×
	TREK NUMBER	TRAIN NUMBER		(S101) Wiseharen Zuldzijde
MELZO - VM/90211 TRANSPORTER	IN BR/85251 V	54631-2018-26 🗸	Rail Service Center Rotterdam BV	
Final Destination: CITY NAME	OUT BR/85251	54632-2018-26 🗸		
ETA: 14 Jan 2019 - 20:00	RB/85261	RAIL OPERATOR	H.	Waalhave
Status: planned 📋	BR/85251	HUPAC		ernotitee9
MELZO - CM/90211 TRANSPORTER	RB/85261		5107	Daw Parket
Final Destination: CITY NAME ETA: 14 Jan 2019 - 20:00	History All Train	Terminal Warnings	Route details	
Status: driving 🔁	Warning: Begin time slot RSC in dam	ger	Origin:	MELZO
PRAAG - RT/90211	The ETA at Emplacement Waalhaven is causing a potential conflict with the beginning of the timeslot of RSC.		ETD:	1 januari 2019 10:00
TRANSPORTER			Station:	Zevenaar Grens
Final Destination: CITY NAME			ETA:	2 januari 2019 07:00
ETA: 14 Jan 2019 - 20:00			Emplacement:	Rotterdam Waalhaven - Zuid
Status: waiting	Train: New planning message has been received		ETA:	2 januari 2019 10:00
The ETD of origin location and it's next stations has been changed to 08 Jan 2019 12:00 (+4 hour)		Arrival Terminal:	RSC	
TRANSPORTER	Begin slot		12 Jan 2019 - 18:00	
Final Destination: CITY NAME	S Received 08 Jan 2019 10:41 from SBB Cargo		Last lift	
ETA: 14 Jan 2010 20:00			End slot	13 Jan 2019 - 00:00

#### Goal

Eliminate waste in the direct chain.



Global

SMART PORT

#### CONNECTED PORTS AND LOGISTICS CHAINS

- Just in time operations
- Seamless and sustainable cargo journey
- Predictive world: Management by exceptions
- ..... Future benefits?

Global

CONNECTED PORTS AND LOGISTICS CHAINS

**SMART** 

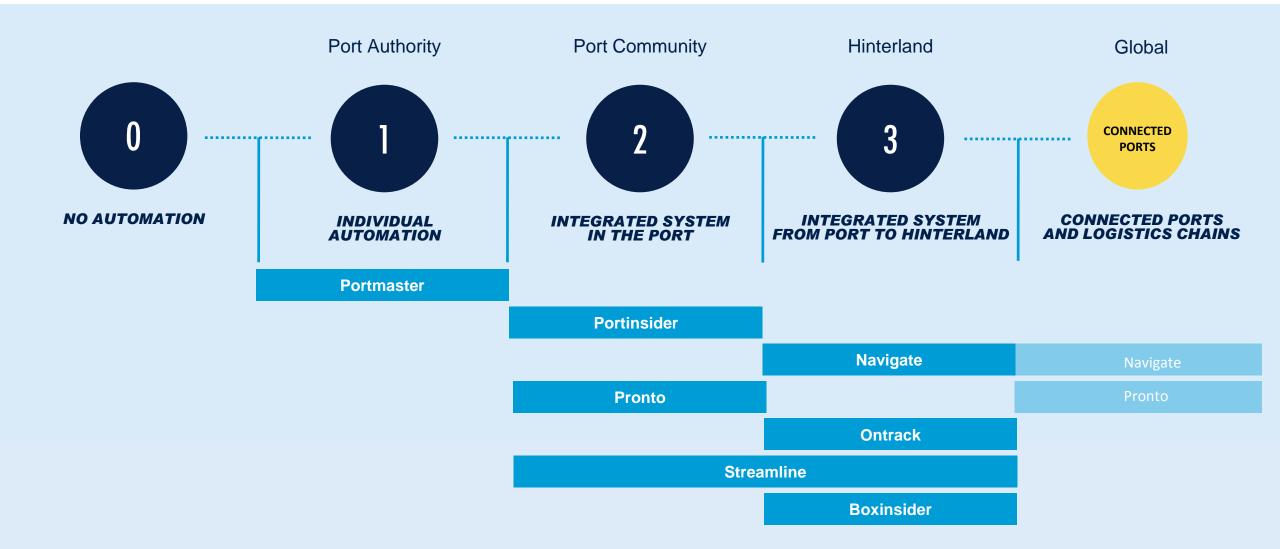
PORT



**Goal** 

Eliminate waste in end to end logistic chain.

## Step by step towards a digital port





# What will be the benefits

- Less CO2 and emissions
- Using the full potential of existing infrastructure
- Optimal transparency
- Just in time operations
- Faster transit times and smoother throughput cargo, paperless
- Increased safety
- financial benefits for the whole logistic chain



# Will you join us and connect?

- Step by step help towards connected ports
- Software as a Service (SaaS) concept makes connectivity *available for all ports* without huge upfront investments
- Contact us to connect with us
- Digitalization of ports, a Rotterdam specialty

CONNECT. OUTSMART. DELIVER. MAKE IT HAPPEN.

# Join our journey towards world connected ports

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