

## **Port**Forward

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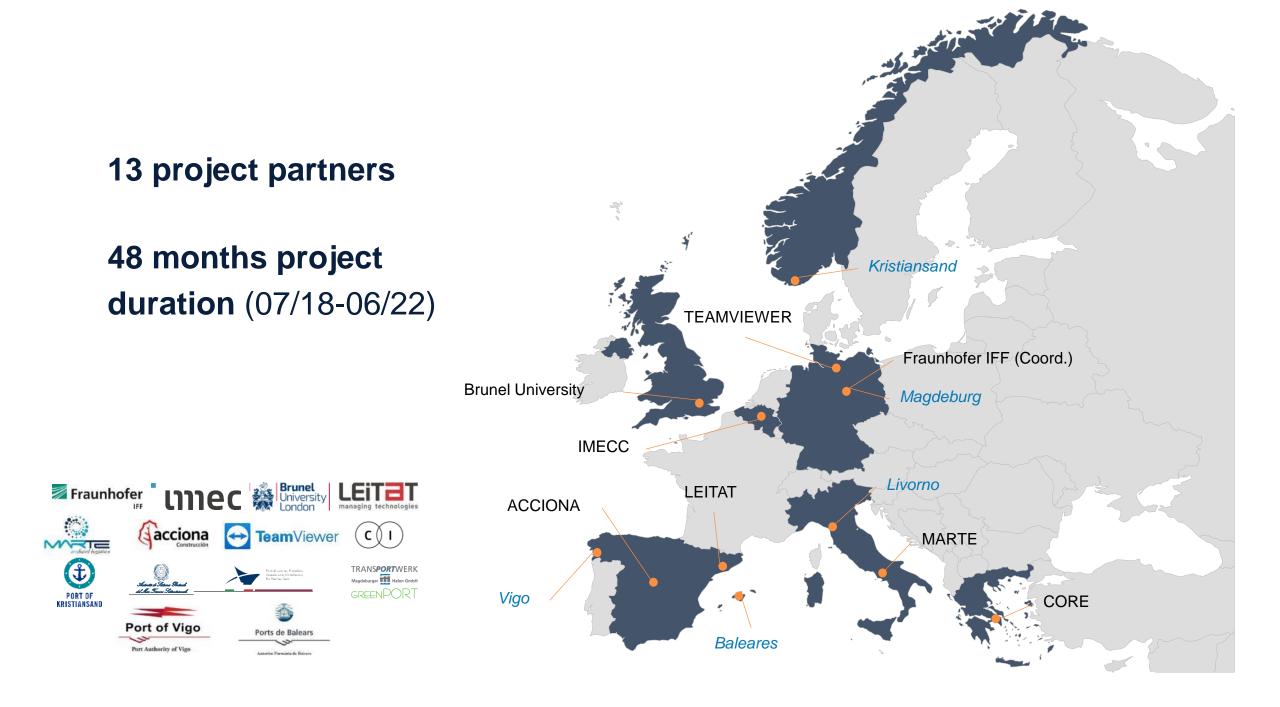
The project receives funding in the European Commission's Horizon 2020 Research Program under Grant Agreement Number 769267



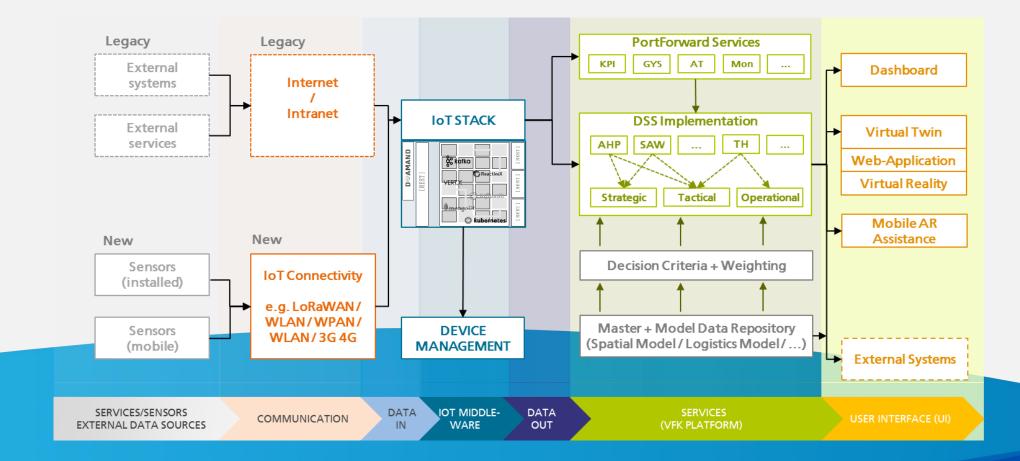
Towards a green and sustainable ecosystem for the EU **Port of the Future** 

**PIXEL Closure Event**, September 28 Olaf Poenicke, Fraunhofer IFF



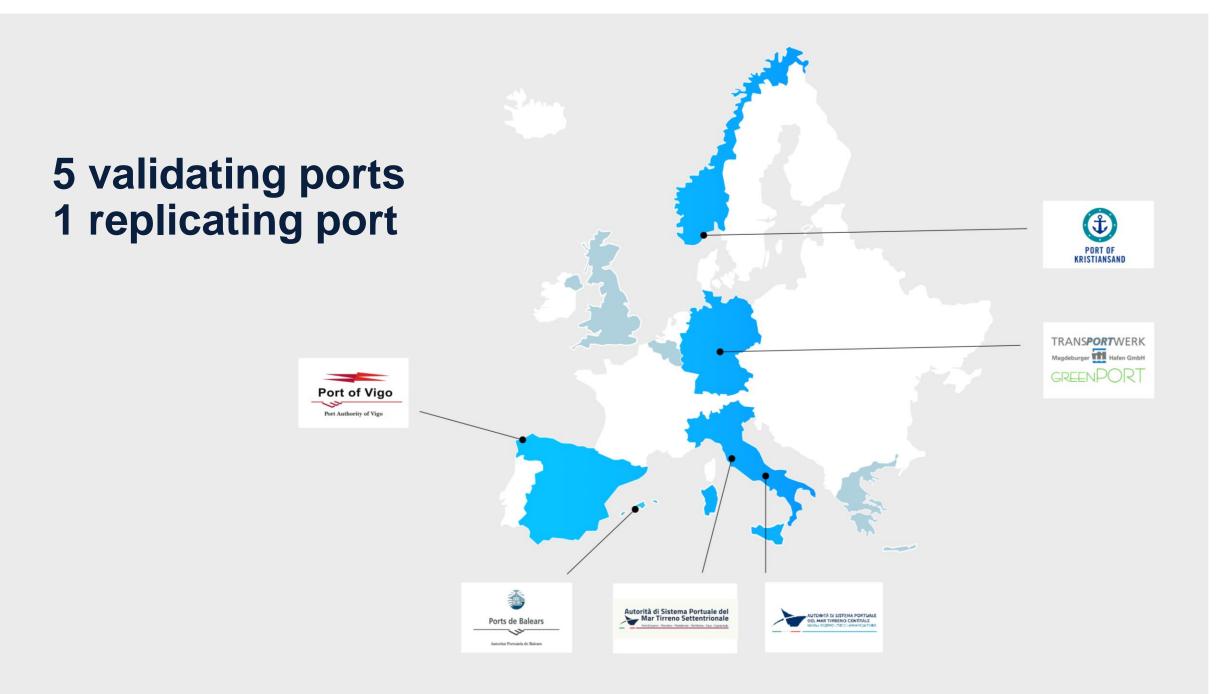


## The PortForward Platform



## PortForward Use Cases & Services

We test and validate the PortForward Platform and Services in ten Use Cases in 5 small and medium size EU ports.



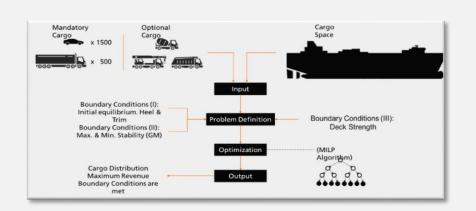
#### Port de Baleares

Port of Vigo

Port of Naples

Port of Livorno

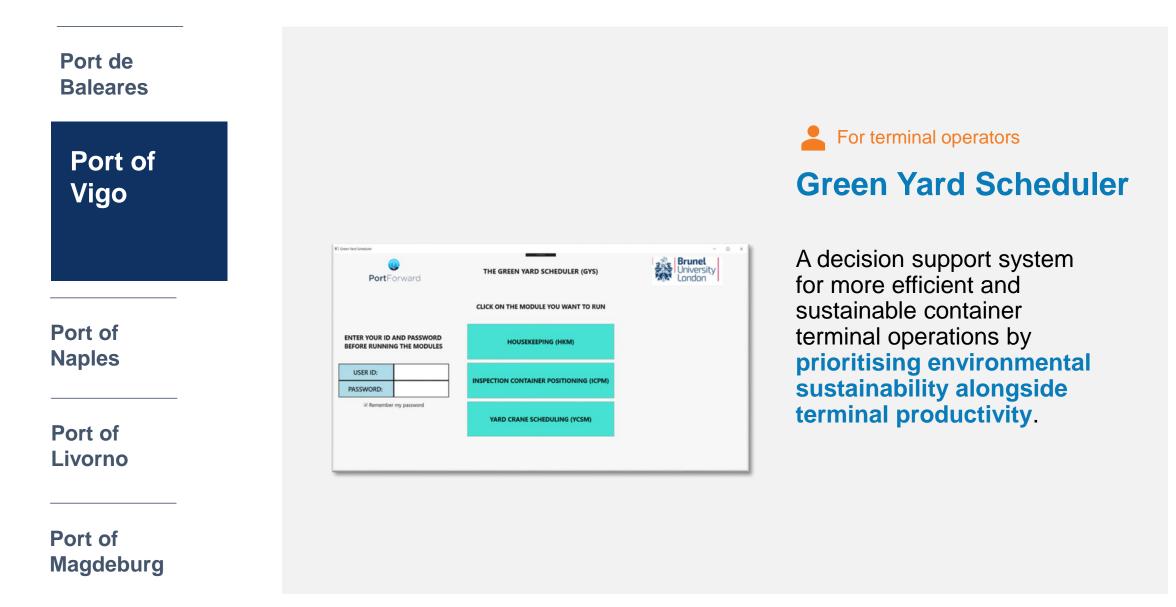
Port of Magdeburg



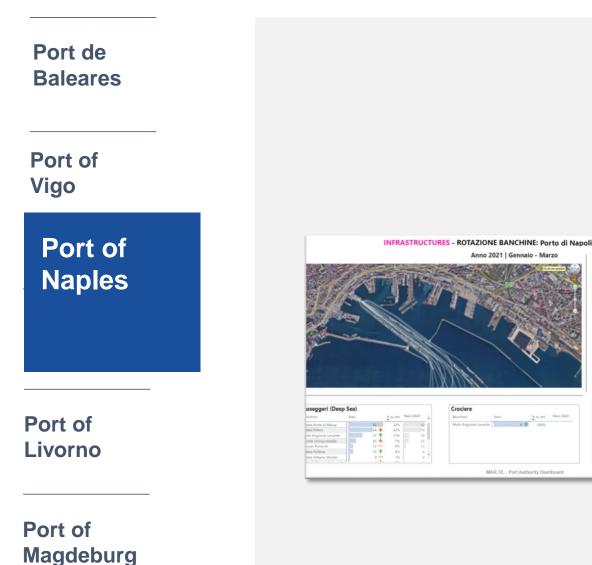
For terminal operators
RoRo & Stowage
Optimization

Aimed to achieve the **most** efficient use of the storage capacity of RoRo vessels to improve the operational efficiency of logistics processes within the port terminal.









#### For port authorities Port Authority Dashboard (PAD)

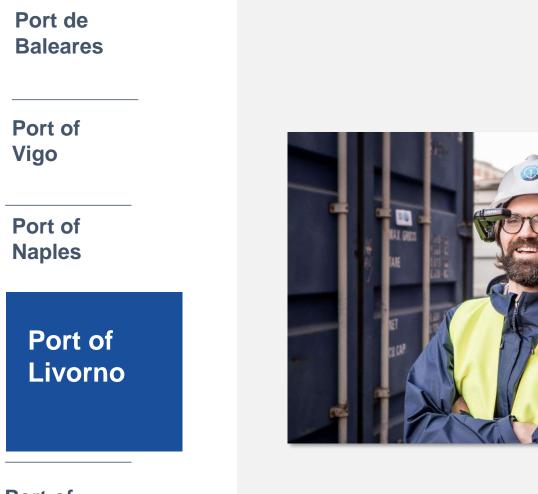
KPIs list 🛃

**Rinfuse Liqui** 

infuse Solid

A data driven management system for monitoring port activities and evaluating port performance based on an automatic retrieval and aggregation system of data gathered from several sources.





## For port authoritiesContainer Inspection

Supports the terminal worker digitally with the use of smart glasses for goods control and inspection within port boundaries, ensuring the security in controls and inspection operations.

#### Port of Magdeburg



#### Port de Baleares

#### Port of Vigo

### Port of Naples

Port of	
Livorno	)

#### Port of Magdeburg



# For terminal operators Dynamic storage space monitoring

This real-time Decision Support System based on IoT and LiDAR data is developed as part of the Virtual Twin. It enables the optimization of storage area utilization and reduction of efforts for searching goods.



## PortForward Exploitation Approaches

There are two approaches to exploit the results of the PortForward project:

- Exploitation of the PortForward Platform → Develop an open platform with possibility to include other services (e.g. from PIXEL, COREALIS, other port related services)
- 2) Exploitation of individual PortForward Services



We would like to further discuss approach 1) with sistering projects!



## **Port**Forward

#### Stay connected with us!



www.portforward-project.eu



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PortForward project



PortForward EU project



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