

PROJECT

PortForward

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

Funding: European (Horizon 2020)

Duration: Jul 2018 - Dec 2021

Status: Ongoing

Total project cost: €4,994,311

EU contribution: €4,994,311



[CORDIS RCN : 216012](#)

Background & policy context:

The Port of the Future will be able to enhance sustainable development and manage the resources to be invested and their employment for a competitive advantage. Therefore, the port of the future must be oriented to port community and have an operative strategic capability to work, in line with European purposes. It must be:

- Smart, through ICT solutions, because it is important to improve the exchange of information flows between port and port community;
- Interconnected with the use of a combination of different modes of transport and the integration of different technologies, because it is important to achieve better monitoring and controlling of the freight flows;
- Green through the adoption of green technologies because it is important to reduce the environmental impact of port operations and save resources.

All in all, sustainable development is the present and future for ports that want to lead the industry, and will be supported by three cornerstones: Operational Excellence, Insightful Collaboration with partners through the supply chain, and high standards of Safety, Health and Environmental practices.

Objectives:

PortForward proposes a holistic approach that will lead to a smarter, greener and more sustainable port ecosystem and which will include the following features:

- The introduction of an Internet of Things (IoT) concept for port assets (infrastructure, vehicles, cargo, people)
- The socio-economic analysis of the port interface with its surrounding area and the port-city, as well as the rest of the logistics value chain.

Parent Programmes:

[H2020-EU.3.4. - Horizon 2020: Smart, Green and Integrated Transport](#)

Institute type: Public institution

Institute name: European Commission

Funding type: Public (EU)

Other programmes: MG-7-3-2017 The Port of the future

Lead Organisation:

Fraunhofer Gesellschaft Zur Foerderung Der Angewandten Forschung E.v.

Address:

Carl-Zeiss-Str. 18-20
55129 Mainz

Germany

EU Contribution: €894,814

Partner Organisations:

Ubimax Gmbh

Address:

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Germany

EU Contribution: €534,750

Interuniversitair Micro-Electronica Centrum

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Belgium

EU Contribution: €604,281

Aggregazione Pubblico Privata Sullalogistica Mare Terra Societa Consortile A Responsabilita Limitata

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Italy

EU Contribution: €437,248

Core Innovation And Technology Oe

Address:

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Greece

EU Contribution: €381,875

Autorita Di Sistema Portuale Del Mar Tirreno Settentrionale

Address:

SCALI ROSCIANO 6
57123 LIVORNO
Italy

EU Contribution: €261,000

Kristiansand Havn Kf

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GRAVANE 4
4662 KRISTIANSAND
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EU Contribution: €71,313

Autoridad Portuaria De Vigo

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Plaza De La Estrella 1
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Spain

EU Contribution: €203,500

Brunel University**Address:**

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EU Contribution: €658,240

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EU Contribution: €326,875

Transportwerk Magdeburger Hafen GmbH**Address:**

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39126 MAGDEBURG
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EU Contribution: €109,209

Acciona Construccion Sa**Address:**

Avenida De Europa 18
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Spain

Organisation Website:

<http://www.acciona-infraestructuras.es>

EU Contribution: €307,281

Autoridad Portuaria De Baleares**Address:**

CALLE MUELLE 5
07012 PALMA DE MALLORCA
Spain

EU Contribution: €203,926

Technologies:

Infrastructure management
Port and Terminal Knowledge Landscape (PTKL)

Development phase: Research/Invention

STRIA Roadmaps: Network and traffic management systems, Infrastructure

Water transport (sea &

Transport mode: inland)

Transport sectors: Passenger transport, Freight transport

Transport policies: Other specified

Geo-spatial type: Other