



**PortForward Project - Towards a green and sustainable ecosystem for the EU Port of the Future** (Horizon 2020, Call "The Port of the Future") – The project aims to create a dashboard to implement the real-time monitoring and the control of critical processes in the port area using advanced sensors.

**Partner.** Acciona, Brunel University, CORE Innovation, Fraunhofer IFF, Ghent University, IMEC, LEITAT, MAR.TE. S.c.ar.l., Ubimax, Autoridad Portuaria de Vigo, Autoridad Portuaria de Baleares, Autorità di Sistema Portuale del Mar Tirreno Settentrionale, Kristiansand, Transportwerk Magdeburger Hafen GmbH.

**Duration of the project:** 42 months

**Budget.** € 4,994 MLN

The Port of the Future will be able to enhance sustainable development and to manage resources for their competitive advantage. Therefore, the port of the future must be oriented to port community and have an operative strategic capacity to work, in line with European purpose, on the following:

- Smart, through ICT solutions, because it is important to improvement exchange of information flows between port and port community;
- Interconnected with the use of a combination 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 saving the resources;

All in all, sustainable development is the present and future for ports that want to lead the industry supported by three cornerstones: Operational Excellence, Insightful Collaboration with partners through the supply chain and safety, health and environment best practices.

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.



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