PortForward

The Livorno Use Cases

The test week for the Portforward services has been completed successfully in the port of Livorno. The Port System Authority of the Northern Tyrrhenian Sea and Teamviewer have tested in real life situations the two Use Cases planned in the framework of the project.

Figure 1. Ship's bridge.

Figure 2. Smart glasses deployment in the inspection yard.

The Use Case for the deployment of augmented reality to assist control authorities in making inspections and controls to cargo handled in the port, has been performed with local stakeholders involved in the use of smart glasses in port yards. Thanks to the fruitful cooperation of the Customs Agency, the Health Office, the Border Inspection Point and the terminal operator Lorenzini it has been possible to check how the smart glasses can work during cargo inspection. This service can help control authorities in better handling the information related to cargo, and to communicate in real time the outcomes or any issue of the inspection activity.

The second Use Case has addressed the assistance to port pilots during manoeuvring of large vessels in narrow port waters. The test on board of the Grimaldi Eco Valencia ship, which has kindly hosted this activity, has shown the key points for performing the needed assistance to the pilot service, taking into consideration the real working conditions and the main needs of the users. The cooperation and support of Livorno Port Pilots has allowed to assess thoroughly how smart glasses can support pilots and which are the essential requirements for pilots when carrying out the service, which is crucial for the safety of navigation in port waters.

There is an important potential for this technology which, thanks to Portforward Action, has progressed further to a greater technology readiness. It is also relevant to point out the innovative side of both Uses Cases, which have been tested in operations that are still not fully digitalised or that take place in complex environments, where issues such as connectivity, interoperability among platforms and security of data managements represent essential features to be properly and specifically addressed.

Ports like Livorno can be in this respect the front-runners of this digital transition, that brings also to field operations the benefits of IT services and digital developments, thus improving port productivity and competitiveness.

About the project

PortForward is a project funded under H2020 MG-7.3-2017 topic: "The Port of the Future". The project proposes a holistic approach towards smarter, greener and more sustainable port ecosystems

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