

Ports as digital data hubs

Contribution of Brest to “Green Ports” proposal: digital ocean & environmental data hubs

The International Maritime Organisation (IMO) and the European Union through its Green Deal program set challenges to the maritime industry: to reduce pollution and to enhance safety of navigation. Digitalization has a central role to play to reach the goals.

Our contribution

The port of Brest is interested to join a consortium to contribute to the digital topic of the “Green Ports” call.

More precisely, our contribution would focus on best valorization of environmental (water quality, etc.) and maritime data (sea status, hydrographical data, meteo data, traffic one zone, dangers, etc.) using the new S100 standard family developed by the IHO and associated data models (web services).

This standard is a powerful basis to develop modern applications for shipping, ports and their communities. As example they allow accessing time dependent applications shared between the ship captain, pilots and the harbor master. Another example is the exploitation of same ocean data and models for environmental monitoring and for smart navigation. Last the model reinforces intrinsically security of digital data and service infrastructures.

With this standard port and shipping communities are entering a new era. Taking benefit requires a demonstrator in different EU ports to test the field of its applications in real size.

Our interest/goal

Our goal is to contribute to:

- 1- define and to setup a demonstrator of applications involving the port community with a network of ports and their local/national partners (eg hydrographic offices, pilots, shipping companies and IT development groups)
- 2- continue working with the support of the standardization groups (IHO, IALA) in order to accompany standardization activities, using the demonstrator as a test bed
- 3- contribute to set out an implementation plan for the IMO e-navigation standards.

Our partners/possible contribution to the partnership

Implementing the new S100 model of the IMO requires cooperation between all concerned parties: ports, hydrographical data and charts providers, ocean data providers, private companies developing routing services, and beneficiaries (pilots, dredging companies, etc).

The port of Brest has already setup a sub-consortium through other running projects. It could contribute to complete the consortium developed for Green Ports.

Contact

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