EFFICIENSEA 2.0 GETTING CONNECTED

The future of maritime safety and security and clean shipping in the Baltic Sea region

Navigating the smart way

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EFFICIENSEA 2.0 GETTING CONNECTED

GETTING CONNECTED FOR EFFICIENT, SAFE AND SUSTAINABLE TRAFFIC AT SEA

Aim: Increasing efficiency and safety

- To co-create and deploy innovative and smart solutions which increase efficiency and safety and improve environmental impact through improved connectivity for ships.
- To make important and relevant information available in a safe, easy and efficient way reducing the time spend on retrieving information and sorting it based on relevance, and reducing the risk of human errors.
- Establishing “operational” platforms and solutions, which can be used in the implementation of EU’s maritime policies.

Vision: Getting the maritime world connected

[redacted]

[redacted]

Objective: Smart navigation and administration

- To establish a framework for safe and efficient sharing and distribution of data/information.
- To introduce solutions improving efficient use of the seaways and decreasing emissions.
- To find ways to reduce redundant work and improve work flow on board and ashore.
- To create standards and protocols for better exchange of data ship to ship and ship to shore.

The project in short: Born to maximise impact

- 3 years
- €11,5 Million
- 32 partners
- Baltic/Arctic
- Flagship project

The route to success: Based on real-life experiences

- Inclusion of the human factor and the human element – real-life testing and verification of concepts
- Embedded within the industry – ship owners, service providers, manufacturers (also academia and authorities)
- Solutions, which can easily be implemented in real-life by the industry
- Open-source and global standards – collaboration with international safety regimes and other projects

Results: First generation of a real-life solution

PRESENT

FUTURE

Results: First generation of a real-life solution

- Online internationally standardised services on the BalticWeb platform, e.g.: Navigational Warnings, chart data, route optimisation – smart navigation
- Online single point port reporting and emission monitoring – reducing work load and making efficient emission monitoring
- The Maritime Cloud – Safe and verified data sharing. Providing a possible platform for e-Customs, e-Freight, e-Maritime, etc. with European roots and a global perspective
- VDES and roaming service – cost efficient and reliable data exchange at sea

Derived values

- Reduction in emission
- Safer navigation
- Secure data exchange
- Harmonisation/standardisation
- Reduction in workload on board and ashore
- First steps towards digitalisation

Adoption of four navigational services will decrease navigators' inattention and work overload by 5%, and ***prevent 50 fatalities and 44 navigational accidents*** *in a 10 years timespan*

The future

- The project and the grant end in April 2018, but the voyage towards fully implemented e-navigation and digitalisation has just started.
- New systems have been developed, but there is still a need to mature the systems to become operational and thereby contributing to the increase in safety and efficiency at sea.
- The leap towards the digital ship requires a strong cooperation within the industry, and it will improve safety, efficiency, sustainability and economic growth, while it holds new possibilities for the established companies and for entrepreneurs in the industry.

Stay connected

Learn more about EfficienSea2 and how we work for efficient, safe and sustainable traffic at sea at:
www.efficiensea2.org

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