iSea R&D

Danelec Marine leads iSea R&D initiative Consortium to develop expert decision support system for ship efficiency and navigation

It was announced from Birkerød, Denmark early in August that Danelec Marine is the project leader for a consortium of companies in iSea, a two-year R&D project to improve efficiency in ship operations and safer navigation.

The iSea programme has been approved for funding by the Eurostars programme. In addition to Danelec Marine, participants are Vessel Performance Solutions ApS (Denmark), i-Marine Technologies and Research Inc. (Turkey) and Denizteknico Danismanlik Bilgi Teknolojileri ve Bilgisayar San. Tic. Std. Sti (Turkey).

The iSea team will deliver a set of Expert Decision Support Systems (EDSS) for enhancing the performance and navigability of vessels. It is understood that the novel EDSS will be enabled by a low-cost and low-risk telematics solution providing real-time transfer of crucial data from ship to shore. The illustration here shows the various sources of ship-to-shore information needed by owners.

Main goals will be to increase fuel efficiency in open waters and facilitate near-shore navigation and reduce human errors, especially in difficult waters. The R&D programme will commence in January 2017 and will run for two years. It will include sea trials of the EDSS solution.

Hans Ottosen, CEO of Danelec Marine commented: ‘A critical element for an Expert Decision Support System for ship navigation is the availability of real-time data from shipboard sensors and systems. As a part of the iSea initiative, Danelec Marine is investigating an alternative type of communication which would give a subscriber access to real-time data within limits set by the system administrator.’

The real-time data solution will enhance Danelec’s VDR Connect technology, which enables remote data retrieval from shipboard systems and sensors, according to Ottosen.

About funding
Eurostars (see https://www.eurostars-eureka.eu/ ) is a European joint programme that supports international innovation projects by R&D-performing small- and medium-sized enterprises. It is co-funded from the national budgets of 34 EUREKA countries (see http://www.eurekanetwork.org/ ) and the EU, with a total public budget of €1.14 billion for the period 2014-2020.
EUREKA is an intergovernmental network launched in 1985 to support market-oriented R&D and innovation projects.

**About Danelec Marine**

Danelec Marine is a leading supplier of Voyage Data Recorders (VDRs) and Electronic Chart Display and Information Systems (ECDIS). The company was one of the first to bring to market VDRs and Simplified VDRs (S-VDRs) to meet the original IMO carriage requirements.

More than 6,000 vessels today are equipped with a Danelec Marine designed and manufactured VDR or S-VDR.

The company has service facilities with factory-trained personnel in more than 50 countries and certified service centres at strategic locations worldwide.

To close Danelec Marine reports that it has received orders to supply Voyage Data Recorders (VDRs) for 27 new Maersk containerships, currently under construction at shipyards in the People’s Republic of China and the Republic of Korea.