

PROJECT

SPLASH

Sail PLAN service for energy efficient SHipping (SPLASH) - innovative and revolutionary sail planning

Funding: European (Horizon 2020)

Duration: Aug 2016 - Dec 2016

Status: Complete

Total project cost: €71,429

EU contribution: €50,000



[CORDIS RCN : 205165](#)

Objectives:

Shipping and offshore are in great need for energy efficient methods, whereby optimised voyage planning and weather routing are among the two most well-known. The main challenge today is that while there are several prospective and useful solutions out there, a uniform or standardised procedure to evaluate fuel and emission gain or loss by implementing one or another solution is lacking. Consequently, it is impossible for a ship owner/operator/charterer to know if a vessel saves more fuel or reduce more emissions by integrating solution X or solution Y. This in turn impedes the industry's ability to adapt their operations to become more environmentally friendly as well as more efficient. It also hinders new innovations (such as the results of several EU projects referenced within this proposal) to successfully be absorbed or bought by the industry.

The primary project objective is to conduct a feasibility study of a generic fuel consumption module (FCM) that accurately estimate fuel consumption burning rate of any ship under various environmental conditions. It will evaluate if one fuel/emission saving solution is more favourable than another.

The FCM can be integrated into an existing sail plan service for routing optimisation based on already established weather module inputs. The final objective is to prepare a business plan for the commercialisation of the 'standalone' FCM as well as the integrated sail plan service containing the FCM.

Parent Programmes:

[H2020-EU.3.4. - Horizon 2020: Smart, Green and Integrated Transport](#)

Institute type: Public institution

Institute name: European Commission

Funding type: Public (EU)

Lead Organisation:

Offshore Navigation Limited

Address:

201 ROGERS OFFICE BUILDING-EDWIN WALLACE REY DRIVE
2640 THE VALLEY
Anguilla

EU Contribution: €50,000

Technologies:

Electric vehicle batteries (and energy management)
Feasibility study of a generic fuel consumption module (FCM)

Development phase: Validation

STRIA Roadmaps: Network and traffic management systems

Water transport (sea &

Transport mode: inland)

Transport sectors: Passenger transport, Freight transport

Transport policies: Decarbonisation

Geo-spatial type: Other