



Ref no	Project title		<b>A DATA ANALYTICS, DECISION SUPPORT AND CIRCULAR ECONOMY–BASED MULTI-LAYER OPTIMIZATION PLATFORM, TOWARDS A HOLISTIC ENERGY EFFICIENCY, FUEL CONSUMPTION, AND EMISSIONS MANAGEMENT OF VESSELS (IoT+)   <a href="https://www.smartship2020.eu/">HTTPS://WWW.SMARTSHIP2020.EU/</a></b>					
Name of legal entity	Country	Overall contract value (€)	Proportion carried out by legal entity (%)	No of staff provided	Name of client	Origin of funding	Dates (start/end)	Name of consortium members, if any
	Malta	1 472 000	11.25%	7	European Commission, H2020	European Commission, H2020	04/2019 04/2023	Danaos, ITML, Ecole des Ponts, Bluesoft, Technische Universitat Braunschweig, HUA
Detailed description of project					Type and scope of services provided			
<p>SmartShip brings together Information and Communication Technologies (ICT) of focused Universities, Research Institutions and Companies oriented into the maritime sector in order to build a holistic integrated ICT-based framework for the sustainable, individualized and completely automated energy management of ships. As such it:</p> <ul style="list-style-type: none"> <li>• Describes marine market needs in energy efficiency and emissions control.</li> <li>• Fosters knowledge exchange between academic and non-academic experts in the fields of IoT, Data analytics, decision support and optimization.</li> <li>• Designs and develops Data Analytics &amp; Decision Support Tools.</li> <li>• Enhances the implementation of Circular Economy in the maritime field in terms of management of engines' components.</li> <li>• Offers a holistic framework for energy efficiency and emissions control in maritime for optimizing the efficiency of daily operations.</li> <li>• Demonstrates system effectiveness based on real-life use cases towards the reinforcement of the European Maritime Industry.</li> <li>• Develops new long-lasting research collaborations, achieve transfer of knowledge between participating organizations, and foster improved research and innovation potential.</li> </ul> <p>SmartShip capitalized on available COTS technologies and will deliver an ICT &amp; IoT-enabled holistic cloud-based maritime performance &amp; monitoring system, for the entire lifecycle of a ship, aimed to optimize energy efficiency, emissions reduction and fuel consumption, whilst introducing circular economy concepts in the maritime field.</p>					 <p>EPSILON engagement:</p> <ul style="list-style-type: none"> <li>• IoT based data analytics tools and technologies applied in the Maritime Industry</li> <li>• Supporting functionalities for SmartShip architecture design</li> <li>• Circular Economy principles in Smartship architecture</li> <li>• Decision support and optimization tools and technologies in the maritime industry</li> <li>• Integration &amp; Implementation of SmartShip framework</li> <li>• Dissemination and Exploitation project activities</li> </ul> 