


Project Title		BLUE ISLES: SUPPORTING FISHING WASTE REDUCTION AND MARINE SYSTEMS PRESERVATION IN EUROPEAN ISLANDS AND COASTAL AREAS (REF.NO.:2021-1-MT01-KA220-ADU-000026614)						
Name of legal entity	Country	Contract value (€)	% carried out by Epsilon	No of staff provided	Client	Origin of funding	Date (start/end)	Consortium Members
	Malta	6.514.729,00	5% 303.125,00	8	European Commission	European Commission	01/09/2022 01/09/2025	Epsilon Malta Ltd Univ. Of Thessaly ABS NTUA University of Cambridge
Description of the project						Services provided		
<p>HS4U is a project that aims to develop evidence-based best practices, smart methods, and user-friendly tools to prevent, mitigate and manage automated on-board mechanisms promoting the collaboration between robot-like ship infrastructure systems and humans (crew and passenger, in the paradigm of Industry 5.0. HS4U develops topics of safety, efficiency, ship management, blue economy, business continuity, health tourism & social blue innovation offered by synthesis of the 4Us of the project.</p> <p>HS4U objectives are:</p> <ul style="list-style-type: none"> To validate the proposed technology a behavioral and environmental quality framework. A collaborative digital framework (CDF) for live interaction of humans and IoT edge devices on the ship based on co-robotics concepts and Artificial Intelligence mechanisms and models. A complete solution for training of crew based on multi-player gaming, embedding realistic role-playing and context. Develop an evidence-based passenger behavioral model based on lice experiments. Deliver a Viral Detection Sensor that will be developed, tested, validated, delivered, and commercialized. Develop the “Robot Cabin”. <p>Main project components:</p> <ul style="list-style-type: none"> WP1: Administration, Technical Coordination, and Impact Assessment. WP2: Project Requirements’ Elicitation and Architecture. WP3: Technical and Technological Research. WP4: Digital Tools Creation. WP5: Experimentation and Pilot Implementation. WP6: Dissemination and Exploitation 						<p>Services provided by Epsilon for each Component:</p> <p>For WP2, Epsilon:</p> <ul style="list-style-type: none"> Defined a reference architecture for the HS4U components. <p>For WP3, Epsilon:</p> <ul style="list-style-type: none"> Identified the requirements for hardware with respect to sensing and actuation systems. <p>For WP4, Epsilon:</p> <ul style="list-style-type: none"> Participated in the set-up of the integrated distributed event-driven streaming platform. Designed and developed the CDF as a web platform and occurred mandatory improvements. Participated in the integration of the passenger model, IoT/edge devices of the robot cabin, and pilots and developed test cases. <p>For WP5, Epsilon participated:</p> <ul style="list-style-type: none"> In designing the pilot’s plan and assessment. In creating and validating the robot cabin. In creating a preliminary policy recommendation based upon the HS4U pilots and technologies. 		

