



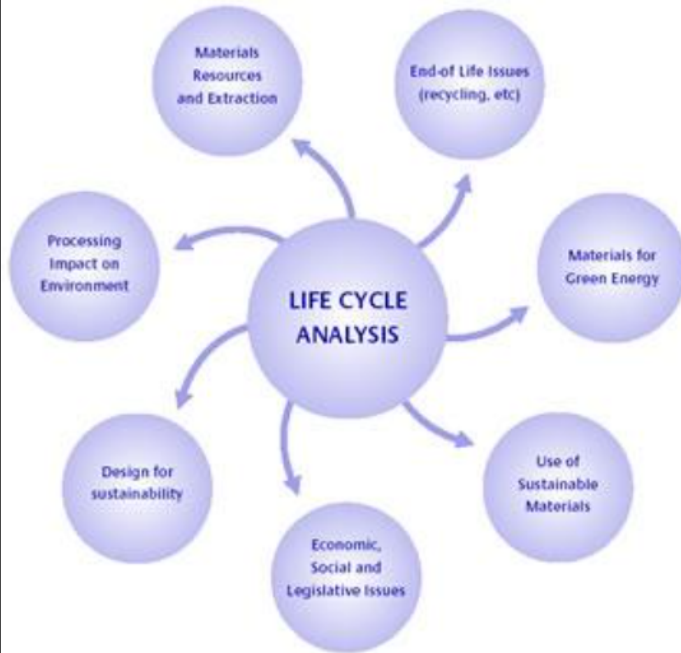
OPTISHIP: OPTIMIZATION OF LIFE CYCLE IN THE SHIPPING INDUSTRY (<https://www.optiship.eu/>)



Country	Contract value (€)	% carried out by Epsilon	No of staff provided	Client	Origin of funding	Date (start/end)	Consortium Members
Malta	501.085,42	30% 150.000,00	10	European Commission	EC Horizon	01/06/2022 30/11/2023	Partners

Description of the project

Services provided



OPTISHIP delivers a TRL9 product to the shipping market via a **Life-Cycle Assessment (LCA)**, and a state-of-science Operational Decision Support Tool (Interlinked models and algorithms) for economic and environmental optimization of maritime structures and ships. The LCA for Shipping considers all Three- Phases of the life-cycle of a ship (1) design/construction (phase-I), (2) operation/maintenance (phase-II), and (3) end-of-life/scrap (phase-III). The LCA can be used for the optimal design of the ship, its optimal operation, and can deliver decisions for “what to do” in multiple cases (e.g., scarp or no-scrap). Clients are shipyards, shipping companies, brokers, banks, insurance companies, engineering houses and others. Clients of the Platform can be the shipyards, shipping companies, brokers, banks, insurance companies, engineering houses and others. The product (web-platform) is to be certified and patented by the Consortium that works together for years and will commercialize the platform via an EEIG, whilst funding is sought, to pursue world-wide business. Technologically, the product develops algorithms, a DSS, based on optimization technologies, whilst the platform features applications, validations, and certification.

For WP1: Algorithm and KPIs development for phases 2 and 3 of the LCA.

- Developed algorithms and KPIs for the LCA phase.

For WP2: Programming the platform.

- Helped develop the OptiShip platform.

For WP3: Control, validation, certification of standardization, loading, and use of the platform.

- Verified and validated the system by comparing the results of OptiShip with the actual data.

For WP4: Consortium EEIG / NewCo and Operational Functioning.

- Provided a sustainable business model.
- Ensured continuous support for OptiShip.
- Reduced investment risk.
- Participated in the creation of an EEIG (European Economic Interest Grouping)