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**EPSILON is a Sciences, Technology, Engineering and Consulting International Group engaged in:**

Maritime, Aviation, Environ-ment & Water, Natural Resources, Ecosystems, Agriculture, GeoInformatics, Energy, Disasters, Economics & Management.

EPSILON was first established in 1985 in Boston, Massachu-sets, USA, and then in 1990 in Europe. Today it operates world-wide as a Group of legally independent companies with key Offices in Malta, Greece, Bulgaria, Cyprus, Germany, Italy. It has allied offices in most European countries and cooperates with foremost world technology organizations.

EPSILON delivers engineering & consulting services, outsourc- ing, R&D/RTD/R&I commodities, training, and state-of-technology products as geospatial database infrastructures, and up-to-the- minute steering & environment technologies for all Maritime topics

Committed to sustainable practices and maritime innovation, EPSILON supports a diverse range of projects that include: Mar- itime strategy and market analyses; LCA and DSS for shipbuild- ing and shipyards; public health in ships; ship navigation in the context of sustainable blue economy; assessments modeling, marine databases; Shipping finance and investment, Maritime regulations and compliance; Bunkering, port and terminal is-sues; Shipping operations and logistics optimization including Maritime safety and risk management, Maritime technology and innovation, ENCs production for Navigation; Environmental sus-tainability and compliance as of IMO, MARPOL, SOLAS regula-tions; Maritime security and piracy prevention via edge CubeSat technology; Specifications for defence vessels construction, science and technology for Autonomous Underwater Vehicles (AUVs), Maritime workforce development and training in associ-ation with universities and RTD centres

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**LCA**

**Life Cycle  
Assessment  
Applications:  
Maritime  
Projects**

**by EPSILON Malta**  
[www.epsilonmalta.com](http://www.epsilonmalta.com)

## EXPERTISE

### Sectors

- Environment
- Water
- Ecosystems
- Disasters
- Civil Protection
- Geomatics
- **Maritime**
- AeroSystems
- Energy
- Management

### Technologies

- Math Modelling
- Digital Twins
- GIS/Copernicus
- AI/ML
- LCA/LCC/LCPA
- DSS
- Economics
- Impacts
- Dissemination
- Marketing

## LCA RELATED PROJECTS

**HOLISHIP | 2020:** Holistic Optimization Of Ship Design & Operation For Life Cycle | [holiship.eu](http://holiship.eu)

**VESSELSLIFE | 2021:** Effective Alternatives For The Life Of The Ship | [vesselslife.com](http://vesselslife.com)

**OPTISHIP | 2025:** Ship Navigation, Emissions, Resources Management | [optiship.eu](http://optiship.eu)

**SMARTSHIP | 2025:** Energy Efficiency, & Emissions Management of Vessels | [www.SmartShip.eu](http://www.SmartShip.eu)

**ECOSHIPYARD | 2025:** Sustainable Shipbuilding Practices | [ecoshipyard.eu](http://ecoshipyard.eu)

**FLEETfor55 | 2025:** Energy efficiency in EU waterborne transport | [www.elke.ntua.gr](http://www.elke.ntua.gr)

**PANTHEON | 2025:** Tomorrow's Community Disaster Resilience | [pantheon-project.eu](http://pantheon-project.eu)

**TRANSFORMAR | 2025:** Upscaling transformational adaptation | [transformar.eu](http://transformar.eu)

**NEUROCLIMA | 2025:** Smart Climate Adaptation & Resilience | [neuroclima.eu](http://neuroclima.eu)

**BLUEISLES | 2025:** Fishing Waste Reduction and Marine Systems Preservation in Europe | [blueisles.eu](http://blueisles.eu)

**AGRARIAN | 2025:** Farming at the Edge | [agrarian-project.eu](http://agrarian-project.eu)

**TRACE | 2025:** Integration & Harmonization of Logistics Operations | [trace-horizon.eu](http://trace-horizon.eu)

## SERVICES



LCA  
ISO 14040/14044



Life Cycle  
Performance  
Assessment



Life Cycle  
Costing

Cost Benefit Analysis  
Composite Indicators Approach