

Integrated Cyber Maturity Assessment and Training Platform for the Maritime Sector

Sector: Marine monitoring & surveillance

Short description of the needs:

OIKOS Area Srl aims to develop an integrated digital solution for assessing cyber maturity and crew training in the maritime sector, targeting fleets, ports and maritime IT/OT infrastructures. The need arises from the company's objective to evolve from a mainly consultancy-based approach towards structured, scalable and replicable services, able to valorise its consolidated expertise in sustainability and risk management.

The challenge is to design a tool capable of assessing cyber maturity in compliance with international standards (ISO 27001, NIST, IMO), reducing human-related risks through phishing simulations, behavioural testing and interactive training modules, and monitoring cybersecurity performance over time through metrics and Key Risk Indicators (KRIs). The integration of Digital Twin technologies to simulate cyber-attack and response scenarios is considered a key innovation element.

The final goal is to create a platform or service-oriented solution (e.g. SaaS or Managed Services) that enhances the resilience of European maritime infrastructures, supports the adoption of shared standards, and enables collaboration with technology providers specialised in cybersecurity, digitalisation and advanced simulation.

The solution is expected to be modular and adaptable to different maritime contexts (fleets, ports, operators), ensuring interoperability with existing IT/OT systems. Particular attention should be paid to compliance with international cybersecurity standards and to the usability of training and assessment tools for non-technical users. Collaboration opportunities include co-development, pilot testing in real operational environments, and validation of the solution within the ECCENTRIC network. The project may lead to further development towards market-ready solutions and access to dedicated funding instruments.

More info: For more information apply to d.francia@unibo.it

Company: OIKOS Area S.r.l.

Point of contact for the brief/challenge: Unibo

Company position in the value chain: Tier 1