TEC4SEA - Modular Platform for Research, Test and Validation of Technologies supporting a Sustainable Blue Economy

Institutional Partners/Node(s)

Instituto de Engenharia de Sistemas e Computadores, Tecnologia e Ciência (INESC-TEC) [https:// www.inesctec.pt]

Centro de Investigação Tecnológica do Algarve Nome (CINTAL) [https://cintal.ualg.pt]

Mission & Vision

To advance the research, development, and testing of marine robotics, maritime communications, and sensing technologies, by pushing the technology envelope and supporting the external R&D and industrial communities. TEC4SEA will be the main Portuguese go-to entity for maritime technology development, and a recognized European pole of excellence in automation and deep-sea technologies.

Contacts

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Core Activities

- Marine robotics for long-term deployment and deep-water operation;
- Fiber optic sensors and systems for underwater monitoring;
- Broadband wireless maritime communications system development;
- Acoustic systems for ocean monitoring and exploration.

Contribution to the All-Atlantic Ocean Research and Innovation Alliance

Relevant thematic area

Relevant resources for collaborative research and innovation

- Coastal vessel capable of supporting missions to deep sea
- Fully equipped laboratories (Robotics; Telecommunications; Sensors; Underwater acoustics)
- Offshore laboratory for acoustic experiments
- Hyperbaric chambers for deep-sea environment testing