

SEASTEMA is partner in the “TETI” project: innovative technologies for control, monitor and safety at sea

The awareness for the protection of the sea and for a conscious and responsible use of marine resources has grown considerably in recent years.

The attention for a responsible use of the sea is nothing if not supported by technology, which must develop adequate tools with the aim of improving the relationship between man and the sea.

TETI was born from the will to use the best available technologies, involving the competences of research institutes, companies and universities all over Italy, under the coordination of NAVTEC.

The project aims to study and develop innovative technologies to be used in environmental monitoring and safety at sea for navigation and risk control, reducing the existing gap in remote control processes and above all improve the interaction and integration of data, both environmental and process, in the navigation and management of the ship system. All aimed at reducing risks and safeguarding the coastal and open sea marine environment.

The final objectives of the project include the development of innovative sensorized buoys for environmental control and recreational services, the construction of a marine drone for environmental monitoring and the development of remote control of the efficiency of fleets at sea. TETI is an ambitious project, which aim to develop tools, methods and technologies to live the sea in a more conscious way.

Objectives of the project are:

- Optimization and development of advanced sensors, to use on different remote platforms, linked each other in real-time;
- Define an integrated system for the active monitoring of on-board systems for the control of maritime traffic and environmental surveillance;
- Project and development of innovative sensorized buoys for environmental control and recreational services and the construction of a marine drone for environmental monitoring.

SEASTEMA will contribute to the development of the integrated on-board/ashore system to optimize the costs of maintenance and fail events to improve navigation safety and environmental monitoring. The system will be based on predictive technologies and big-data algorithms for the analysis of data on the ground and wireless technologies for on-board data collection.

The project is funded by the PNR 2015-2020 programme in the “Blue Growth” area.

Main information:

Start Date: 01/01/2021

Duration: 30 months

Overall budget: € 9.086.970,34

Project Coordinator: Consorzio di ricerca per l'innovazione tecnologica, Sicilia Trasporti Navali Commerciali e da Diporto s.c.a.r.l. (NAVTEC)

Project Partners:

Università degli Studi di Messina, Università degli Studi di Palermo, Università degli Studi di Catania, Consiglio Nazionale delle Ricerche, Istituto di Tecnologie Avanzate per l'Energia – ITAE, Istituto per l'Ambiente Marino Costiero – IAMC, Istituto per lo Studio dei Materiali Nanostrutturati – ISMN, Istituto per la Microelettronica e Microsistemi – IMM, Istituto di Studi sui Sistemi Intelligenti per l'Automazione – ISSIA, Istituto per i Processi Chimico-Fisici – IPCF, SB SETEC S.p.A., Caronte & Tourist S.p.A., Liberty Lines S.p.A., Ambiente S.p.A., Centro per gli Studi di tecnica Navale CETENA S.p.A., Na.Vi.Go. s.c. a r.l., Net7 S.r.l., Nextworks S.r.l., Politecnico di TORINO, SEASTEMA S.p.A., Università degli Studi di BERGAMO

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