

Project acronym - Project title

CALYPSO SOUTH - Extending Data and Services for Safer Navigation & Marine Protection

Programme Priority Axis	3 Protecting the environment and fostering an efficient use of resources
Programme Investment Priority	5b) Promoting investments targeting specific risks, thereby ensuring resilience in case of natural disasters and emergency management systems
Investment Priority Specific Object	 3.2 To promote systemic actions and technologies able to mitigate the climate change effects and the natural and anthropic risks with a particular reference to the catastrophic from the maritime risks

Name of the lead partner organisation

University of Malta, Faculty of Science Department of Geosciences Physical Oceanography Research Group

Project Partners

Partner 2	Università degli Studi di Palermo - Polo Territoriale Universitario della Provincia di Trapani
Partner 3	Transport Malta - Port and Yachting Directorate
Partner 4	Università di Catania - CUTGANA Centro Ricerche Multidisciplinari
Partner 5	Agenzia Regionale per la Protezione dell'Ambiente della Sicilia
Partner 6	Consiglio Nazionale delle Ricerche - Istituto per l'Ambiente Marino Costiero (Capo Granitola)
Partner 7	Civil Protection Department

Project duration (months)	Start date	End date
39	01.03.2018	31.05.2021

Project summary

CALYPSO SOUTH faces the common challenge of safety in maritime transport, the safeguarding of human lives at sea and the protection of marine-coastal resources.

The project carries out an enlargement of the HF radar observation system for monitoring the deliberate actions of oil spills operated by ships in transit in the Sicilian Channel, covering an area of 6,300 SqKm, which affects the entire Maltese territory and the Sicily south-east area.

The radars will be installed in Ghar Lapsi (Malta), Ta 'Cenc (Gozo) and Licata (Sicily) and will integrate data provided by the radars previously installed thanks to the 2007-2013 programming resources at Ta Bark' at (Malta), Ta Soppu (Gozo), Pozzallo (Sicily), Marina di Ragusa (Sicily).

The availability of these innovative tools allows the authorities to have a complete mapping of the Maltese and Sicilian marine area, from Licata to Pozzallo, and to reduce intervention times to the occurrence of harmful and/or potentially polluting events.

The project also provides support services in maritime security operations through the installation of weather stations at the ports of Grand Harbor (Malta), Kordin Grain Terminal (Malta), Cirkewwa Ferry Terminal (Malta), Marsaxlokk (Malta), Pozzallo (Sicily), Ragusa (Sicily) and Mazara del Vallo (Sicily). All seven ports are in fact exposed to wind conditions that can represent a risk especially for the operations of entry and exit from the port area.

All stations will be networked through a web interface that integrates and combines weather data with marine wave data released by HF radar stations. This allows to provide a complete safe navigation service to shipowners and port authorities also through smartphone applications called KAPTAN and PORTO, one dedicated to boaters and one to the competent authorities.

Project results

Enlargement of the HF radar monitoring coverage corresponding to the entire Maltese marine area and to the Sicily south-east area with a total coverage of 15,000 square kilometres

Project outputs

<ul style="list-style-type: none"> ✓ +3 HF radar sites observation; ✓ 7 Ports with Port Weather station; ✓ 6.300 sq. Km area covered with monitoring and collection data technological systems on Sicilian and Maltese shores 	<ul style="list-style-type: none"> ✓ 2 exercises of emergency response simulations ✓ 2 Smartphone apps for safe navigation services
--	---

Budget	ERDF Contribution	Public Contribution	Additional Co-financing
€ 2.500.000	€ 2.125.000	€ 375.000	€ 0

Contacts	Social Media	Web site
calypso@idra.unipa.it	Calypso South	www.unict.it/it/ricerca/progetti/calypso-south