



Type I - PT02_Aviso4_0017

MarinEye – A Prototype for Multitrophic Oceanic Monitoring

DESCRIPTION

MarinEye will develop an innovative multitrophic autonomous system with adequate sensors and sufficient autonomy and robustness to improve integrated physical-chemical and biological monitoring of the marine environment. MarinEye is expected to provide information that could not be obtained by satellites or aircrafts, by increasing the monitoring capacities carried out by vessels, AUVs, oceanic and coastal platforms (fixed or mobile), and observatories. Furthermore this system will contribute to the assessment of the national marine environmental status of coastal waters and remote oceanic areas (e.g. deep sea ecosystems). When operational the multitrophic autonomous system will be installed and used in several marine observatories, namely the Cascais Watch station (in a coastal upwelling area, http://www.st.nmfs.noaa.gov/plankton/time-series/site_iberian-portugal-cascais/), the Berlengas Watch station (in a marine protected area), in the platform buoys of the RAIA oceanic observatory (offshore the North West Iberian Atlantic margin). Once operational, data collected by the MarinEye system will be disseminated through the National Information Sharing Environment (NISE) contributing to the Integrated Maritime Surveillance and Monitoring (NIPIM@R).

PROJECT PROMOTER

CIIMAR - Interdisciplinary Centre for Marine and Environmental Research

PROJECT PARTNERS

Portuguese Sea and Atmosphere Institute (IPMA), IPL - Leiria Polytechnic Institute, INESC TEC - Institute for Systems and Computer Engineering, Technology and Science

TOTAL COST

373.867€

TOTAL ELIGIBLE COST

373.722€

EEA Grant

317.664€

OUTCOME

Outcome#2 - Improve monitoring of marine waters

OUTPUT

Capacity on fixed or mobile unmanned oceanic and coastal monitoring operations increased

INDICATOR

Number of pilot networks of fixed marine observatories in deep sea and shallow waters in place

TARGET

3 Pilot Networks