



Type II - PT02_Aviso4_0011

SOCO - DRONE - System for Oceanic and Costal Observation using Drones

DESCRIPTION

The main objective of the project is to improve the national environmental maritime monitoring capacity in remote ocean areas by deploying a low-cost system comprising unmanned vehicles (UAVs) and sensors (deployable water glider smart sensor, GNSS-Reflectometry altimetry, Optical Camera and AIS) and a dedicated ground station. The project shall design, develop, test and demonstrate in the Gorringe bank (150 miles WSW of Cape St. Vicente, proposed as a marine protected area) the use of 2 high endurance UAV fixed-wing platforms base on UAVISION existing platform adapted to remote ocean monitoring. UAVs will fly in a collaborative and complementary way in a network to collect and relay data (telemetry, sensors, etc) to and from land-based station, allowing gathering of human activity and environmental data to be disseminated in open databases to entities via national NIPIM@R initiative. The project is aligned with Portuguese National Ocean Strategy embraced by IH as well as industrial strategies of UAVISION and DEIMOS, targeting a near future implementation on higher scale and TRL with significant impact on Portuguese maritime operations in terms of capability, cost and efficiency.

PROJECT PROMOTER

UAVision - Systems Engineering Ltd.

PROJECT PARTNER

DEIMOS Engineering , SA and Hydrographic Institute

TOTAL COST

371.281€

TOTAL ELIGIBLE COST

371.281€

EEA Grant

315.589€

OUTCOME

Outcome#2 - Improve monitoring of marine waters

OUTPUT

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

INDICATOR

Number of systems of autonomous vehicles operating in a coordinated and collaborative way for collecting and disseminating marine environment and human activities data at remote oceanic areas

TARGET

1 System