Maritime safety and security

RAPACE

AIRBORNE SENSOR-ASSISTED RECOVERY

The capacity to spot surface slicks from a ship's bridge is extremely limited. Continuous tracking of slicks in the area around a support vessel can greatly enhance operational effectiveness in the recovery and treatment of pollution, by assessing its extent, pinpointing its location and organising the necessary on-site response. Resources can be pooled, operations planned, ships positioned, and recovery or treatment processes put in place.

Spin-offs and future developments

The RAPACE project was designed to develop a tethered flying device deployed from a ship as a 'remote monitor' up to a height of 150m. RAPACE can accommodate several types of sensors – visible and infrared cameras, scanners and more – to supply georeferenced HD aerial images within a one-mile radius of a ship. The device can maintain a fixed observation altitude for an unlimited period (weather permitting) without an operator's intervention.

- Emergence of a new concept in aerial devices
- 2 demonstrators produced and tested

The RAPACE project is also recognised by the Pôle Mer Méditerranée cluster.

Partners

Companies

Geocean, Cassis [Project Developer]
Cedre, Brest
Cedre, Brest
Cybernetix, Marseille
Thomsea, Saint-Hilaire-de-Riez

Research centers

EIGSI, La Rochelle
LNE, Paris

Other partner

CEPPOL, Brest

Funder

- Agence Nationale de la Recherche

Labelisation

2005

Overall budget

1 513 K€