



Marine energy and mining resources

CANOPUS

INTELLIGENT BEACONS FOR OFFSHORE UNDERSEA ACOUSTIC POSITIONING AND MARITIME SURVEILLANCE

The object of the CANOPUS project was to develop intelligent beacons for undersea operations with a capacity to communicate and calculate as part of the process of managing the positioning of different undersea vehicles.

Spin-offs and future developments

The project provided an opportunity to work on aspects of undersea acoustic communication, involving sea trials, signal processing and algorithms to optimise beacon autonomy and improve localisation performance.

CANOPUS produced a new long-life positioning beacon for use at depths of up to 4,000 metres. Its market launch is scheduled for 2018.

Advances made particularly in electronic architecture are paving the way for a new range of undersea products – acoustic releasers, acoustic remote controls, USBL system, recorders, etc.

- **2 jobs created**
- **1 patent**
- **2 publications**

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

Partners

Companies

iXBlue, Brest [[Project Developer](#)]
Florian Madec Composites, Brest

Research centers

Ifremer, La Seyne-sur-Mer
IMT Atlantique Bretagne-Pays de la Loire /
Lab-STICC, Brest
IUEM, Brest
Laboratoire Littoral Environnement et
Sociétés (LIENSs), Université de La
Rochelle, La Rochelle

Funders

- Fonds Unique Interministériel
- Conseil départemental du Finistère
- Région Bretagne
- Brest métropole
- Toulon Provence Méditerranée
Communauté d'Agglomération

Labelisation

23/11/2012

Overall budget

2 653 K€