



## 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€