



## IPBC / IPBC 2

### INTERNET PROTOCOL FOR BOAT COMMUNICATIONS

The 'Internet Protocol for Boat Communications' project, officially recognised in January 2006, was aimed at developing a low-cost communication system for Internet access and e-mailing, thereby facilitating life on board ships (easier contact with ship owners, markets, families, etc.).

The system is based on High-Frequency digital transmitting and enables messages to be exchanged between ships at sea and terrestrial network subscribers via coastal stations. After validating the project's technical and economic feasibility with its partners, Kenta Electronic set up several coastal and mobile maritime HF stations. Experiments were carried out on several fishing boats at the quayside and at sea to validate the applications of the on-board demonstrators. This innovative system is likely in the long term to be of interest to coastal fishing fleets on every continent. Lastly, the project contributed to pre-normative work to obtain an international recommendation from the ITU (International Telecommunications Union) and to the presentation of the research to the European Conference of Postal and Telecommunications Administrations (CEPT) in 2012. This globally recognised standard - ITU-R M1798-1 - relates to the use of high-frequency waves to transmit digital messages on marine radio bands. It is also of note that the IPBC project helped develop a new application for broadcasting digital maritime safety and security messages over the traditional 500 kHz frequency and is therefore of interest to the International Maritime Organisation (IMO).

- ITU recommendation
- 2 posts created during Phase 2 of the project

#### Partners

##### Companies

Kenta Electronic, Quimper [Project Developer]  
Pesca, Concarneau

##### Research centers

Ifremer, Brest  
IMT Atlantique Bretagne-Pays de la Loire, Brest

##### Other partners

Pesca, Concarneau  
Technopole Quimper-Cornouaille, Quimper

#### Funders

- Région Bretagne
- Conseil départemental du Finistère
- Quimper Communauté

#### Labelisation

27/01/2006 et 27/06/2008

#### Overall budget

916 K€