

# PROPOSAL FOR COASTAL TECHNOLOGY PLATFORM: PLATLIB

## Axis Research aimed at technological development

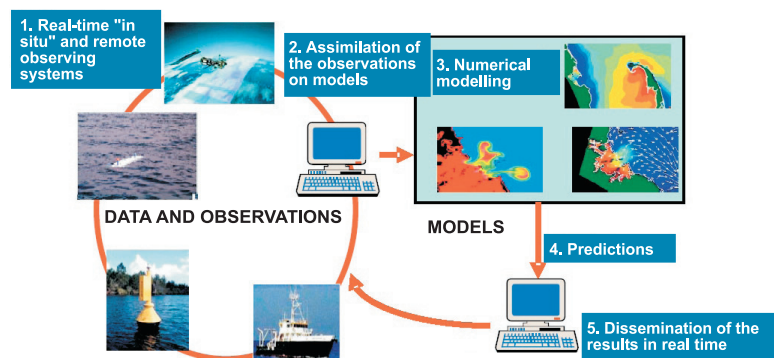
### Summary

The Balearic Islands have more than 1200 km of coastline and economic activity directly related to the tourist sector and maritime traffic, activities requiring data in almost real time as a basis to guarantee the quality of the coastline and the safety of the sea.

PLATLIB proposes an innovative way to improve knowledge of the coast in line with the most recent international initiatives. The system will allow us to face new research and new scientific and technological approaches to analyse the complexity of interaction between natural multidisciplinary processes that make up the variability of coastal areas. To do that, special emphasis will be placed on both the preservation of the coast and biodiversity, and the analysis of its vulnerability in the face of overall change and modifications related to human action.

### Actions

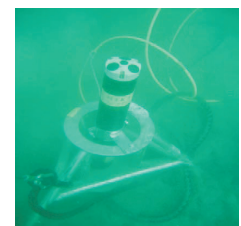
-Offer a work tool that will contribute to further knowledge of the coast to then move towards ICAM, based on principles of sustainability.



The technological platform will allow us to combine almost real time data on the state of the coast with new numerical model systems predicting the evolution of the coastal environment.



Glider



ADCP: Acoustic Doppler Current Profiler

### Applications

#### Research

Real-time data acquisition of coastal conditions signifies a great step forward for research related to areas such as the preservation of marine biodiversity at different levels; the mitigation of anthropogenic impact; further knowledge about the structure and workings of coastal habitats, as well as the quality of coastal waters. The data will also allow us to study, analyse and predict the effects of various climate change scenarios on coastal ecosystems.

#### Administration and enterprise

This information will have a direct application for public and private organisations managing the coastline, in important areas such as: the safety and efficiency of marine operations (salvaging, navigation, accidental spillages, etc.); the analysis and prediction of the effects of natural disasters on the coast (extreme storms, tsunamis, meteotsunamis, etc.); variability and repercussion of the design of civil infrastructures on the coast; protection and restoration of beaches and dunal systems, coastal ecosystems and revegetation of dunes; better safety and lifeguard systems at beaches, and the design of operational aid systems for lifeguards on beaches; sustainable management of natural resources (fisheries, agriculture, etc.).

#### Principal Investigator

Prof. Joaquín Tintoré

e-mail: jtintore@uib.es

#### IMEDEA

C/Miquel Marqués, 21  
07190 Esporles, Mallorca  
Illes Balears, ESPAÑA

Tlf: +34 971 611 714  
Fax: +34 971 611 761

www.imedeauib.es

### Contact

Co-principal investigator

Project web

Joaquín Tintoré  
jtintore@uib.es

www.imedeauib.es/goifis/OPERACIONAL

<http://www.costabalearsostenible.es>

