



GIS applied to marine environmental studies



DESCRIPTION

Geographic Information System for the management of marine and coastal environment information.



OBJECTIVES

Design of a cartographic database in digital format that allows the user to consult all the information generated, in a simple and fast way, and at the same time without a significant reduction in the possibilities of exploitation of the data model.



Target

Public administrations and companies, private entities, port authorities, , navies, marinas, etc.



RESULTS / ADVANTAGES

Geographic data model that unifies the information related to the location of the environmental element and the descriptive attributes of the same.

Quick and cost-effective exploitation of the data obtained and its subsequent analysis.



ACTIONS

Integration of oceanographic, physico-chemical, biological, fishing, topographical, geomorphological, use and activity variables and, in general, of the different environmental themes in GIS software. This makes it possible to integrate existing information for the elaboration of, among others, the following:

- Cartographies of benthic community distribution (bionomic cartography or ecocartography).
- Detailed mapping of the distribution of marine phanerogams (*Posidonia oceanica*, *Cymodocea nodosa*, etc.).
- Quality mapping of coastal and transitional water masses.
- Mapping of exploitable resources.
- Cartography of fragility/vulnerability of the marine environment in the face of certain actions.
- Cartography of the evolution of certain parameters in the face of different scenarios.

