

- > Hydrographical and geophysical surveys
- > Oceanographic measurements
- > Environmental impact assessments
- > Ecological monitoring
- > Renewable marine energy
- > Marine engineering project management
- > Research and development



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E N V I R O N M E N T
E N G I N E E R I N G
I N D U S T R I E S

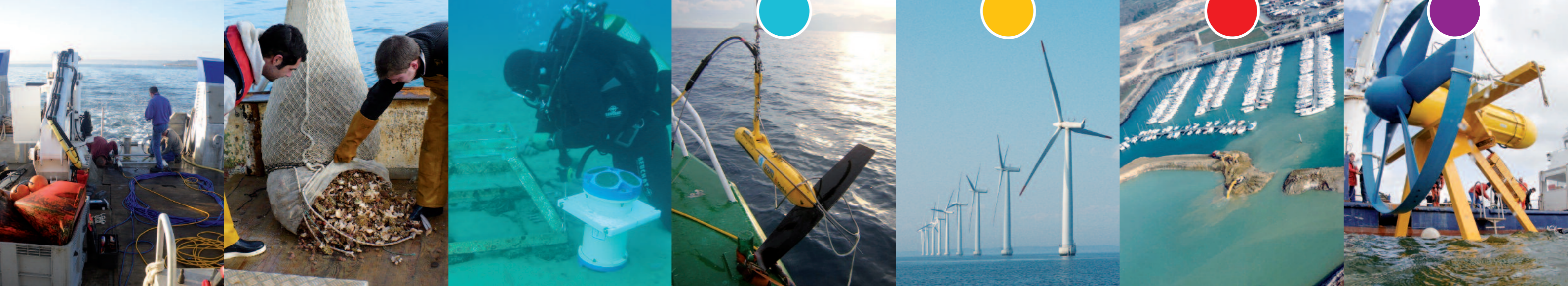
IN VIVO was founded in 1997 and complies fully with the code of ethics of the French Chamber of Engineering and Consultancy.



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MEASUREMENTS — STUDIES — CONSULTANCY
MARINE ENVIRONMENT & OCEANOGRAPHY



IN VIVO provides marine environmental and coastal oceanographic consultancy services. Working in the field and availing of extensive facilities at sea and a wide range of instrumentation, IN VIVO is autonomous and efficient right from the initial collection of data at sea. IN VIVO specialises in data collection, processing, interpretation and use, in particular presentation of cartographical data (GIS), and project management and execution of surveys.

OCEANOGRAPHY

The **Oceanography** Department is specialised in measurement campaigns at sea, on the coast and in aquatic environments.

Teams of engineers and technicians travel all over the world, deploying a wealth of state-of-the-art equipment (vessels, acoustic instruments, sampling devices and diving equipment, etc.).

Sea campaigns include **marine geophysics** (single or multibeam bathymetry, reflection seismology, subbottom profiler, magnetometer, jetting), **oceanography** (current measures by ADCP, multiparameter probes, meteorology), **noise measurement** (hydrophones), habitat mapping (with sidescan sonar, subsea video, ROV, diving investigations), **ecological inventory** (benthos, sea grasses, fixed fauna, avifauna and marine mammals), **and sampling** (Niskin bottles, grabs, corers, vibrocorers).



ENVIRONMENT

The **Environment** Department provides support for public and private marine projects to conduct environmental impact assessments (EIA) in terms of legislation, physical, life and human (socio-ecological) phases.

This Department operates in a wide variety of fields including **impact studies on harbour and marine infrastructure works, dredging operations, sand extraction at sea, designing of artificial reefs, renewable marine energies, cable and underwater pipeline laying, emissions monitoring** (sewage treatment plant, thermal power stations, desalination plants).

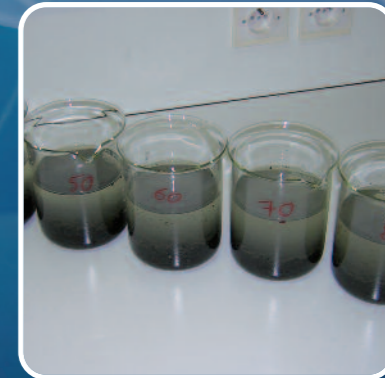
IN VIVO accompanies applicants with administrative procedures, public enquiries and debates, and assists them in environmental monitoring during work performance and operating stages.

The Department also carries out sociological and environmental perception surveys as well as consultation and communication plans for some projects.

ENGINEERING

The **Engineering** Department provides Project Management services for development projects and works concerning coastal areas and marine environments for local authorities and industries. It offers **technical assistance** at all stages of the project, from the design phase to acceptance of the work, selecting contractors and monitoring project performance.

This department is also specialised in land management of contaminated sediments (pre-treatments and treatments) and in sludge disposal circuits (recovery and disposal) and also deals with dredging and cleaning projects, erosion control and harbour work.



R&D

IN VIVO invests 20 % of its turnover in research and development. IN VIVO is an active member of French marine industry network "Pole Mer" and a partner in **R&D projects** concerning renewable marine energies (Sabella, Winflo, Seawind Buoy), biofuels (Agrogasoil, Algogasoil), contaminated sediments (Sedimard, Sedigest, PCB-Axelera). IN VIVO has also filed patents for the development of artificial reefs.

