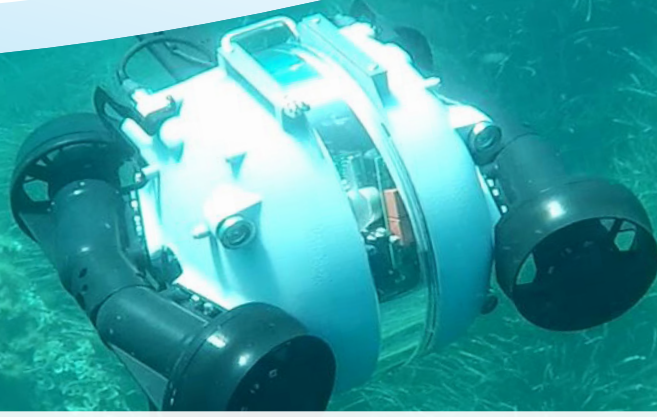


Marine Surveying



AquaBioTech Group is an international aquaculture and fisheries consulting company strategically located in the Mediterranean, on the island of Malta. It operates globally, with clients and projects in over fifty-five countries. Staff are recruited from across the globe, enabling communication with clients in thirteen languages.

ABT Marine can offer a wide range of marine surveying services to the following industries:

- Environmental Impact Assessments (EIA)
- Seabed exploration
- Habitat mapping and monitoring
- Search and recovery
- Construction support
- Marine archaeology surveys

ABT Marine is part of **AquaBioTech Group**, and as an independent marine hydrographic survey firm, offers a broad range of capabilities in marine surveying, GIS and remote sensing and project management within the marine industry. Our expertise covers several disciplines that enable us to provide support to a wide range of marine research, conservation and exploration activities.

ABT Marine has undertaken assignments in the Mediterranean and Middle East. Activities undertaken include:

- Interferometric bathymetric mapping to produce Digital Terrain Models and charts
- Seabed classification and *Posidonia oceanica* habitat mapping using side scan and remote sensing
- Coral species and distribution mapping
- Side and down scan sonar survey for seabed classification and marine archaeology
- Sediment characterisation with grab and core sampling and grain size analysis
- Sub-bottom profiling to investigate geo-morphology of submarine landslides and sediment stratification studies
- Bathymetric mapping and seabed classification to assess site suitability for offshore energy farms
- Bathymetry surveys in corporation with dredging support and land reclamation studies
- Feasibility studies for aquaculture sites and environmental assessments
- Anchor and chain recovery ROV survey in offshore bunkering areas



Marine Surveying



MAIN SERVICES

SEABED AND HABITAT SURVEYS

ABT Marine offers fully comprehensive seabed mapping service utilising interferometric bathymetric and side scan surveying, down to depths of 300 meters. Bathymetric data shows an accurate, color-coded depth profile of the seabed that can be presented in 2D or in 3D. Side scan sonar provides a detailed flat, monochromatic, picture-like representation of the surveyed area, ideal for detailed examinations of the seabed.

SUBSEA SEDIMENT SAMPLING

ABT Marine can provide a complete service for seabed sediment analysis. Sub-bottom profiling surveys, sediment grabs and core extraction provide information on the stratification, grain size and chemical characteristics of the seabed up to depths of 30-40 meters. **ABT Marine** is actively cooperating with an ISO Accredited Laboratory and can therefore offer sediment analysis according to industry standards.

ENVIRONMENTAL ASSESSMENTS

In addition to sediment analysis, **ABT Marine** capabilities include water sampling and quality analysis, SCUBA diving surveys, hydrographic monitoring and modelling, in order to offer a complete service for marine site assessments and Environmental Impact Assessments (EIA).

REMOTE SENSING & GIS MODELLING

Remote sensing can be used to assess a variety of environmental parameters. At **ABT Marine** we offer satellite image processing and analysis catered to the client's requirements. **ABT Marine** applies GIS to display and analyse spatial data for research, environmental planning and monitoring, feasibility assessments and habitat mapping. Modelling allows our researchers to produce hypothetical outputs from actual inputs, which can predict future impacts.

ROV INSPECTIONS

ABT Marine houses a Remotely Operated Vehicle (ROV) that is depth rated to 305 metres. It is equipped with a 330° range-of-view camera, auxiliary lighting, a two-function grabber arm, four vector thrusters a DVR (Digital Video Recorder), as well as an optional sediment grabber and water sampler. The ROV is a multi-use tool for habitat mapping, site assessments and search and recovery for anchors and chains.

