PBO Marine

MISSIONS DELIVERED

Work already carried out at sea, and the programmes behind it

Each of these has been carried out for a client: instrumented, run and reported.

SUBSEA Underwater testing and vehicle deployment	**NETWORKS** Mesh buoy network deployment
GUIDANCE Guidance testing for robotic applications	**COMMS** Over-the-horizon communication links
AUTONOMY COLREG-based collision avoidance, AI-assisted	**ACOUSTICS** Acoustic testing at sea
SENSOR FUSION Multi-sensor fusion for target detection and identification	**RETROFIT** Drone kit integration, RIB automation
NAVIGATION IMU and RTK high-grade positioning	**SURFACE** USV deployment and commissioning
MCM AUV deployment for mine countermeasures at NATO exercises	

Surface drone missions carried out for

EDF Hydro · Voies navigables de France · Naval Group · Jan De Nul · GeoXYZ · CNRS Lorient · CNRS Brest · LIENSs La Rochelle

Programmes and campaigns

2002 — 2007	**Offshore racing trimarans** Onboard navigation and instrumentation systems for large racing trimarans — IDEC, Groupama, Hydroptère, Gitana and Banque Populaire. Motorsport-derived acquisition and sensing brought across to offshore racing.
2007	**America's Cup — Victory Challenge** Manager of the electronics department. Initiated the Formula 1 to America's Cup technology transfer, set up in Dubai with Cosworth and operated by Red Bull; instrumented the first Class America yacht to carry the Cosworth system.
2013 — 2022	**A French surface drone line** Pioneer of the unmanned surface vehicle in France. Through Texys Marine — inside Texys, a sensor maker from the Formula 1 world — then IMS: Ulysse, then the Monodrone 1800 and 3000. IMS acquired by GeoXYZ in 2019.
2013 — 2026	**Austrian Olympic sailing team** Onboard measurement systems across three boat classes and five Olympic campaigns.
2014	**Maritime patrol aircraft — ISR system** ISR mission system for a maritime patrol aircraft based on a Diamond Aircraft platform, with Vigie Aviation. Sensor payload, acquisition chain and mission data.
2020 — 2026	**AUV development campaigns** Numerous development and tuning campaigns on autonomous underwater vehicles with French industrial partners. Navigation setup and calibration, sensor integration, at-sea trials and performance qualification.
2024 — now	**Sail Machines** Hybrid wind and solar surface drone. Wind measurement chain, true-wind reconstruction and performance model completed in 2026. Model in development — not commercially available.
2025 — 2026	**NATO REPMUS 2025 and 2026** AUV deployment for mine countermeasures, as part of an industry team, alongside the French Navy, clearance divers, naval commandos and allied navies.