High quality, data-rich hydrographic surveys are fundamental to safe and accurate maritime navigation, to the management and protection of marine and coastal environments, and to the discovery and development of natural resources.

INTRODUCTION

Hydrography plays a vital role in maintaining a globally successful, environmentally responsible ‘Blue Economy’. Fugro is a recognised leader in the acquisition, interpretation and presentation of hydrographic data to IHO standards.

Fugro is trusted by leading national hydrographic authorities and other government agencies and institutions as well as leading industries around the world, and is a driver of technological development with a focus on delivery excellence.

Our local knowledge and global expertise enables us to provide international stakeholders with hydrographic data of the highest quality, using the latest technological advances.

OUR APPROACH

Fugro employs experienced and qualified IHO-accredited hydrographic surveyors, leading-edge technologies and associated platforms to meet any client’s project size and scope.

We are able to provide solutions that meet the client’s hydrographic requirements, from the land-sea boundary to full ocean depth, using acoustic, optical and remote sensing technology.

Mapping for UNCLOS and EEZ management

Airborne LiDAR bathymetry

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Every year, we collect thousands of square kilometres of high resolution bathymetry data worldwide. We deploy a range of hydrographic sensors and platforms - often simultaneously - to deliver comprehensive and seamless datasets in even the most challenging of coastal environments, encompassing offshore, inland waterways and adjoining topography.

**Multibeam Sonar**
Our modern survey vessels, ASV/USVs, AUVs and ROVs capture multibeam echo sounder data to create the clearest images of seafloor bathymetry, backscatter and water column data, optimising the value of datasets for multiple purposes.

**Airborne Laser/LiDAR Bathymetry (ALB)**
We have over 25 years’ experience undertaking ALB surveys around the world for many national hydrographic authorities and governmental agencies in order to map shallow and coastal waters for nautical charting and coastal zone management applications. Fugro is a pioneer of ALB development and the use of this advanced technology to cost-effectively map the shallow water environment.

Hydrographic survey services have many and varied applications. We are committed to providing the right solution for your particular needs.

Around the world, we support:
- Safer navigation through improved nautical and electronic charts
- Offshore spatial planning for oil, gas and renewable energy solutions
- UNCLOS Article 76 and EEZ mapping
- Port and coastal developments
- Environmental assessments and modelling
- Habitat mapping
- Coastal zone protection and management
- Climate change resilience
- Pre- and post-dredging surveys
- In-Service-Support (ISS) of assets within hydrographic authorities
- Hydrographic data collection and products for a broad range of marine and Blue Economy stakeholders