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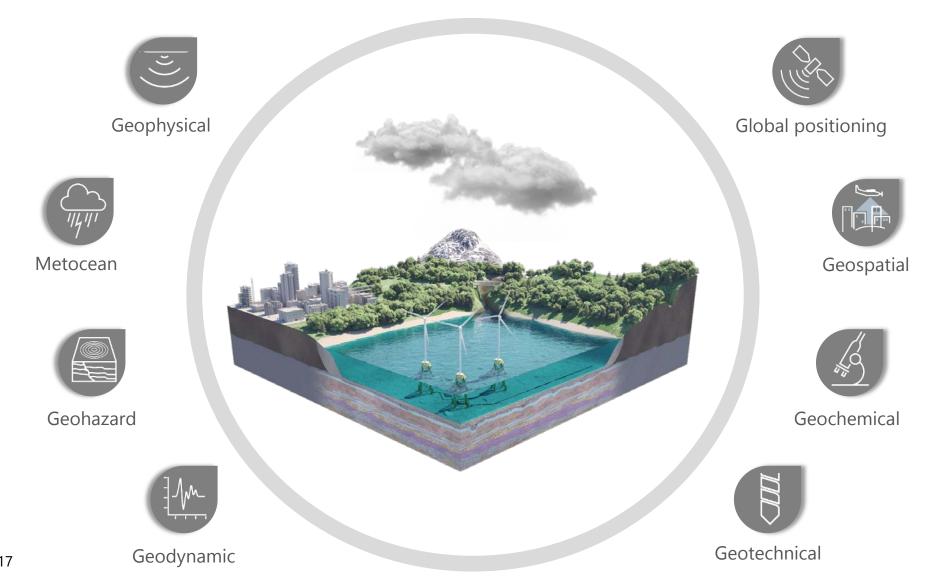


fugro



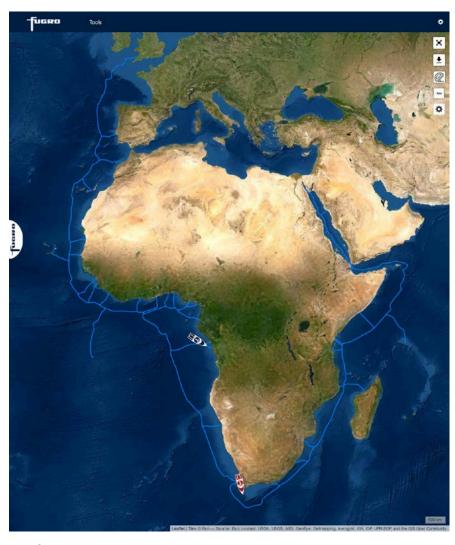
1. Fugro and Regional Presence

We are the world's leading Geo-data specialist





Vessel currently in engaged in project in the Region



 Fugro presence in the Region with hydrographically capable Vessel is strong (from shallow (including small boats) to deep ocean capability, including Geotech – gravity coring, CPT);

5 Vessel:

- 2 Vessels engaged in the 2Africa subsea cable survey route. 2Africa project is seen as an important pillar supporting tremendous internet expansion as part of Africa's growing digital economy (https://engineering.fb.com/2020/05/13/connectivity/2africa/);
- 3 Vessels currently working in Angola in different configuration:
 - Geophysics
 - 2D seismic
 - Geotech



Fugro Helmert - Hydrographic state of the art



- Equipped with a medium (EM710MK2) to shallow water multibeam echosounder (EM2040 dual)
- Innomar Medium SBP
- Oceanographic winch for geophysical operations down to ~ 1000m
- Geotech capability
- Endurance ~ 30 days
- Survey crew up 11 PAX + ROC support with speed data transfer

Vessel has a successful track record of operations working for large scale hydrographic survey programs (i.e.IHO Order 1a Shallow water survey – Red Sea > 100.000 sq.km).

Fugro has built for GCS a sister vessel including hydrographic survey lauches which continue to operate in the Red Sea.





2. What is Fugro doing to support Seabed 2030?

What is Fugro doing to support Seabed 2030?



In-Transit Bathymetry Contributions

Innovation





Contribution of Client-Owned Bathymetry



Spreading the Word



SAIHC17

Fugro's in-transit bathymetry program

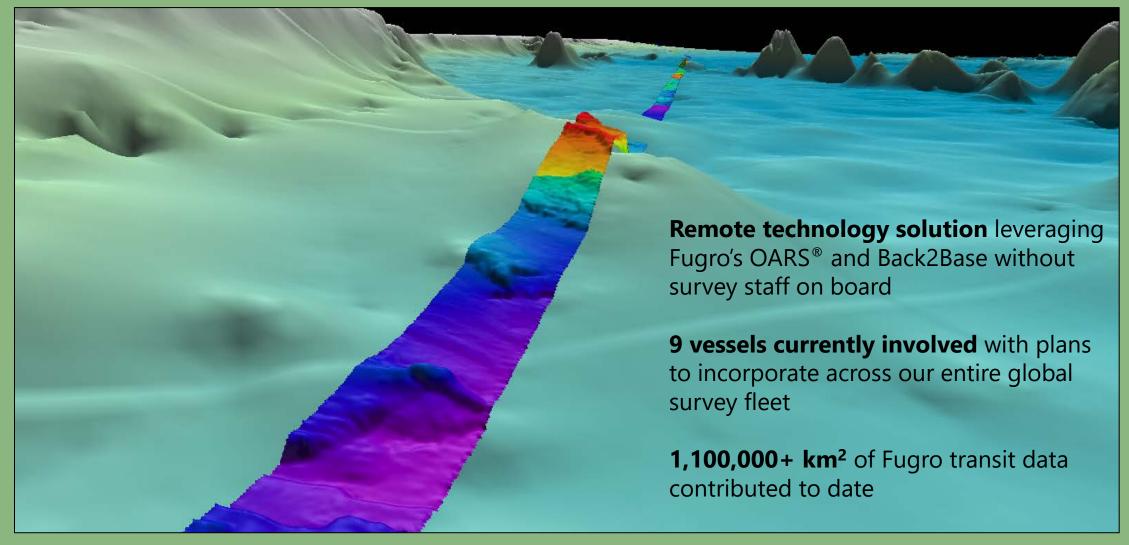
Fugro made a commitment to collect and contribute bathymetric data acquired during the transits of our survey vessels to Seabed 2030 as part of our corporate sustainability program.







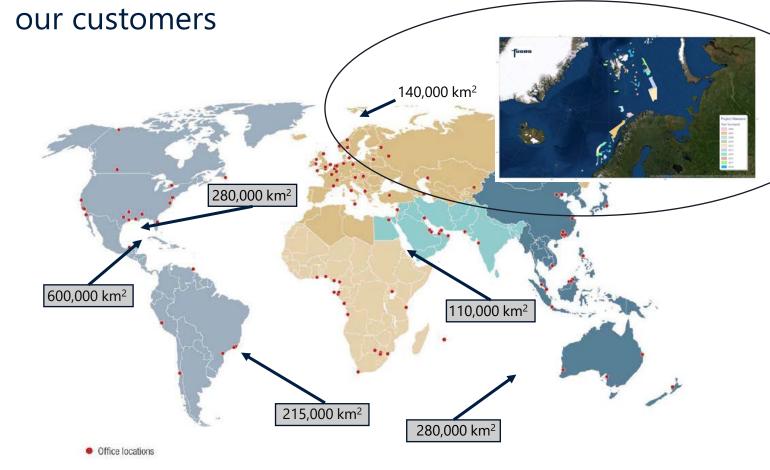
Fugro's in-transit bathymetry program



Seabed 2030

the release of existing
data, crowdsourced
bathymetry contributions
and ocean basin mapping
campaigns

Fugro acquires ~1,000,000km² of bathymetry data per year ... but these are usually owned by

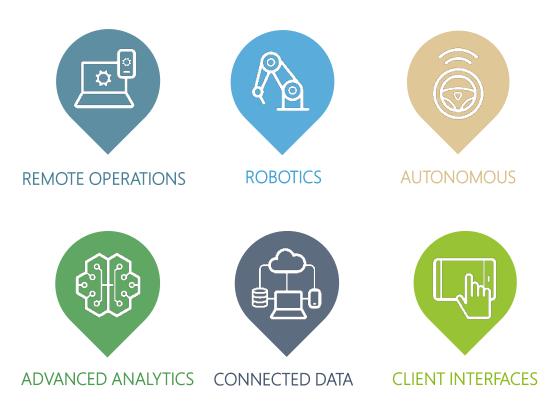




Seabed 2030

The use of existing and emerging technologies will play a central role in the Seabed 2030 project.

Technology development and innovation will accelerate and reduce the cost of ocean mapping



Technology development and innovation



Uncrewed Surface Vehicles



Remote Command and Control



Unmanned Aerial Vehicles



Autonomous Underwater Vehicles



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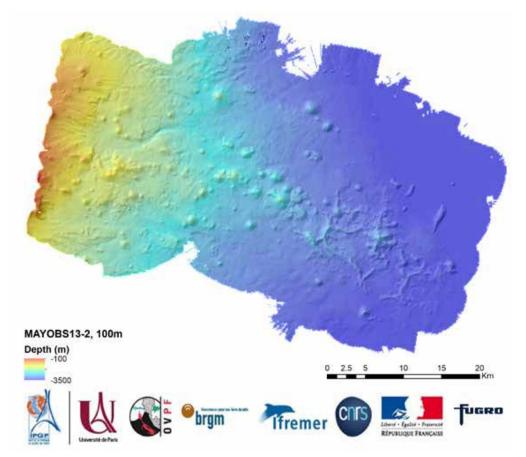
"Development that meets the needs of the present without compromising the ability of future generations to meet their own needs."

(United Nations)

3. Regional recent success stories

Ocean mapping: where there's a will, there's a way

from SB2030 in-depth Issue July 2020



Describing the survey, Dr Carla Scalabrin, Ifremer Head of Mayotte Project Hydroacoustic Team, stated:

"It was our first experience of remote working and we never met our Fugro colleagues in person, as the project was planned by email and videoconferencing. Despite these challenges, we quickly established a climate of trust and the data transfer was extremely powerful. This successful survey is the result of a positive and respectful collaboration between the Ifremer and Fugro teams."





Thank you



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