

FUGRO'S NEW RAMMS TECHNOLOGY ADVANCES BATHYMETRIC LIDAR MAPPING CAPABILITIES

Fugro is introducing a new bathymetric lidar system that delivers industry-leading depth penetration and point densities for nearshore and coastal mapping. Known as RAMMS (Rapid Airborne Multibeam Mapping System), the field-proven technology promises to deliver an efficient and cost-effective solution, dramatically improving upon other bathymetric lidar mapping capabilities.

“Traditional bathymetric lidar technology requires customers to compromise between price, depth penetration and data density,” said Ed Saade, president of Fugro USA and regional director for Fugro’s Marine Division in the Americas. “With RAMMS, there’s no trade-off. It can achieve a 3-Secchi disk depth penetration at a higher observation density than any comparable system on the market - and we’ve recorded seafloor depths as deep as 42 metres during a recent survey.”

Described as a first-of-its-kind multibeam lidar system, RAMMS was developed in partnership with Areté Associates. The system utilises push-broom laser technology and is based on 20 years of cutting-edge military technology for mine detection, developed via the U.S. Navy Small Business Innovated Research (SBIR) programme. It is also underpinned by over 25 years of bathymetric lidar experience for nautical charting.

The sensor’s compact design allows for rapid deployment on small aircraft of opportunity, including unmanned, fixed-wing aircraft. The resulting operational efficiencies are enhanced through rapid processing and data transfer capabilities.

“We believe RAMMS will bring significant value to hydrographic organisations, coastal zone/floodplain managers and engineers,” Saade said, noting a successful hydrographic charting demonstration project recently performed in Belize, covering 165 square kilometres. Fugro is currently using RAMMS to complete several large-scale surveys in the Americas with projects in other regions expected to follow.

RAMMS is the second major technology innovation offered by Fugro in partnership with Areté Associates. In 2015 the companies launched the pioneering aerial survey platform known as ROCIS (Rapid Ocean Current Imaging System) to measure surface ocean currents. In high demand since then, Fugro has collected more than 168,000 nautical miles of ROCIS data in the US Gulf of Mexico to support offshore oil and gas operations.

For more information:

Haley Hollis

t: +1 713 369 5597

e: hhollis@fugro.com

w: www.fugro.com

ABOUT FUGRO

Fugro is the world’s leading, independent provider of geo-intelligence and asset integrity solutions. Fugro acquires and analyses data on topography and the subsurface, soil composition, meteorological and environmental conditions, and provides related advice. With its geo-intelligence and asset integrity solutions Fugro supports the safe, efficient and sustainable

development and operation of buildings, industrial facilities and infrastructure and the exploration and development of natural resources.

Fugro works around the globe, predominantly in energy and infrastructure markets offshore and onshore, employing approximately 10,000 people in 65 countries. In 2017, revenue amounted to EUR 1.5 billion. The company is listed on Euronext Amsterdam.