



Illustration of new Angolan Ministry of Fisheries FRV. Credit: Damen Schelde Naval Shipbuilding

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Kongsberg Maritime: KONGSBERG Integrated Delivery for the New Angolan Research Vessel

- *KONGSBERG technology supports diverse applications for Angolan Ministry of Fisheries' vessel*
- *Integrated instruments forms the basis of a de facto industry standard marine ecosystem monitoring system*

Kongsberg, Norway, 3rd October 2016 – Kongsberg Maritime has been awarded a contract by Damen Schelde Naval Shipbuilding of Vlissingen, the

Netherlands to provide a diverse, integrated technology solution for a new 74 metre Fishery Research Vessel (FRV), which will be built at Damen Shipyards Galati, Romania. The vessel is planned to be delivered to the owner, the Angolan Ministry of Fisheries in July 2018. The new vessel, designed by Skipsteknisk, uses Silent-A/F/R technology to ensure highly accurate survey results from the advanced KONGSBERG scientific package.

Supported by KONGSBERG's extensive integrated technology, the Angolan Ministry of Fisheries' new vessel will be capable of diverse applications, including hydrographic survey, sub-bottom profiling, acoustics research, pelagic and demersal trawling, plankton, water, environmental and geographical sampling, oil recovery and emergency towage operations.

KONGSBERG's delivery is focused on design, engineering, equipment, material and services for the Integrated Bridge System, Dynamic Positioning System, marine ecosystem monitoring and seabed mapping. The contract was awarded based on KONGSBERG's well proven ability to deliver state-of-the-art integrated systems for research vessels, which provide efficiency and performance benefits in both vessel operational and scientific applications.

The scientific package is based on a suite of integrated instruments that forms the basis of a de facto industry standard marine ecosystem monitoring system: Simrad EK80 Scientific Split Beam Echo Sounder, Simrad ME70 Scientific Multibeam System with Bathymetric Module, Simrad MS70 Scientific Multibeam 4D Sonar, Simrad SU90 Omnidirectional Sonar and Simrad PI and FX80 Trawl Monitoring System.

Furthermore, the vessel will be equipped with market leading hydrographic systems; KONGSBERG EM 122, 1x2 Degree Deepwater Multibeam Echo Sounder, KONGSBERG SBP 120-3 Degree Sub-Bottom Profiler, KONGSBERG EM 712, 0.5x1 Degree Medium Depth Multibeam Echo Sounder and KONGSBERG GeoPulse Plus Digital Sub-Bottom Profiler.

The complete Subsea package is synchronised by a KONGSBERG K-Sync, 16-channel system to prevent interference between systems during multiple use of the various Subsea systems.

Positioning for the Subsea package is provided by the KONGSBERG Seapath 330+ GNSS Dual Frequency Receiver (GPS/GLONASS) including a state-of-the-art MRU-5+ motion reference unit. The KONGSBERG HiPAP 502 Acoustic

Positioning System completes this versatile Subsea package.

“The delivery for Angola’s FRV is practically a standard fit for these types of vessels,” said Øystein Aasbø, Area Sales Manager – Subsea/Underwater Mapping, Kongsberg Maritime. “Each product is class-leading, and when integrated on an advanced vessel design like this, the scientists on board will benefit from the most accurate and reliable hydrographic and marine ecosystem monitoring solution available in today’s market.”

Vessel operation will be managed by a KONGSBERG K-Bridge Integrated Bridge System (IBS), with the KONGSBERG K-Pos Dynamic Positioning system providing advanced manoeuvring and positioning functions tailored for research vessels, ensuring optimal performance of the scientific sensors. The K-Bridge IBS is adaptable to the requirements of all sea-going ship types and is designed to meet all IMO and classification societies' requirements including one-man bridge operation. The vessel will also feature advanced operational planning tools for research operations.

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About Kongsberg Maritime

Kongsberg Maritime is a global marine technology company providing innovative and reliable technology solutions for all marine industry sectors including merchant, offshore, subsea and naval. Headquartered in Kongsberg, Norway, the company has manufacturing, sales and service facilities in 20 countries.

Kongsberg Maritime developed systems for vessels cover all aspects of marine automation, safety, manoeuvring, navigation, and dynamic positioning. Subsea solutions include single and multibeam echo sounders, sonars, AUV/Underwater Robotics, underwater navigation, communication and camera systems.

Marine and offshore training simulators, LNG solutions, information management, position reference systems and technology for seismic and drilling operations are also part of the company's diverse technology portfolio.

In parallel with its extensive technology portfolio, Kongsberg Maritime provides services within EIT (Electro, Instrument & Telecom) engineering and system integration, on an EPC (Engineering, Procurement & Construction) basis.

Kongsberg Maritime delivers solutions that cover all aspects of technology underwater and on the water, aboard new build and retrofit vessels, and on offshore platforms and rigs, often under a single supplier strategy called The Full Picture.

Kongsberg Maritime is part of Kongsberg Gruppen (KONGSBERG), an international, knowledge-based group that celebrated 200 years in business during 2014. KONGSBERG supplies high-technology systems and solutions to customers in the oil and gas industry, the merchant marine, and the defence and aerospace industries.

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