

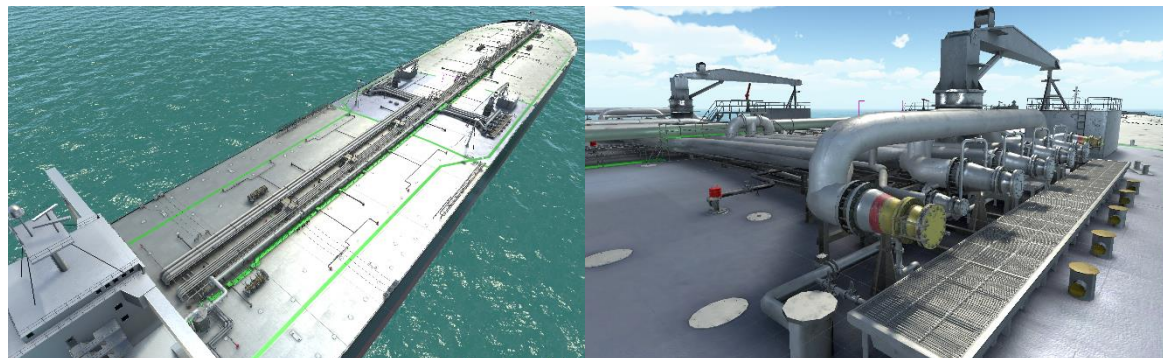


KONGSBERG

Press Release

New 3D Virtual application for K-Sim Cargo Simulator

- *Innovative 3D application simulates deck area of VLCC, with more vessel models incoming*



3D visualization of the cargo deck with areas indicating that local operational training is possible

Asker, Norway, February 5th, 2018 – Kongsberg Digital has launched a new 3D virtual application for its state-of-the-art K-Sim Cargo simulator. The system generates high-fidelity visualization for operational training on important areas of the cargo deck, enabling training centers equipped with K-Sim Cargo to deliver even more value to their customers while meeting the industry need to secure the safety and efficiency of cargo transfer operations.

The new 3D virtual solution is a direct response to customer requests for high fidelity outside deck area training to accompany the existing 3D engine room capabilities of KONGSBERG's K-Sim Engine simulator. The first 3D virtual model for K-Sim Cargo is based on a customized simulation model of a Very Large Crude Carrier (VLCC), M/T "Kiho" that will be delivered to Magsaysay training center in Manila next month. KONGSBERG's existing standard K-Sim Cargo ship-models will receive similar virtual solutions in the years to come.

The K-Sim Cargo virtual model simulates the deck area in 3D, enabling the student to zoom in and interact with valves, flanges, cargo tank hatches, pressure vacuum valves and crude oil washing (COW) machines for local, hands-on operation. Visual effects such as leaks and hose connections are included to add even more realism, contributing further to the quality of training available for general and hazardous cargo operations.

KONGSBERG's established K-Sim Cargo simulator includes a range of cargo vessel models, all of which are certified by DNV GL and exceeding the existing STCW requirements. All K-Sim cargo models are developed based on actual ship specifications and performance data, making the simulator as realistic as possible. K-Sim Cargo provides high quality training in every aspect, from details in a single sub-system to the overall running of a loading or discharge operation, including handling of emergency situations.

"We will continue to develop our K-Sim Cargo models by adding visualized deck area systems in 3D in the years to come," explains Product Manager, Leif P. Halvorsen. *"We have received excellent feedback on the corresponding systems for our K-Sim Engine*



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models and this leads to a demand for similar systems in our K-Sim Cargo models. We believe the training value will increase significantly by adding this 3D feature.”

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About Kongsberg Digital

Kongsberg Digital is a provider of next-generation software and digital solutions to customers within maritime, oil and gas, and renewables and utilities. The company consists of more than 500 software experts with leading competence within the internet of things, smart data, artificial intelligence, maritime simulation, automation and autonomous operations. Kongsberg Digital is the group-wide center of digital expertise for KONGSBERG.

Since July 2016, Kongsberg Digital has become the parent organization for staff, products, and expertise of the former Kongsberg Oil & Gas Technologies organization and the maritime simulation department of Kongsberg Maritime. Kongsberg Digital is also the driving force behind the Kongsberg Information Management System (K-IMS), a future-looking open platform for vessel management and operation, offering full integration of sensors and systems for smart data and decision support. K-IMS is the bridge between offshore marine systems and onshore business enterprises.

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