



First live trials of the Eelume underwater robot took place in Trondheim, Norway

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Kongsberg Maritime: Reshaping Underwater Operations – Live Footage of Groundbreaking Robotic Subsea ‘Snake’ Released

- *First live testing of unique robot set to revolutionise underwater intervention operations*
- *Watch footage of the state-of-the-art Eelume robot in action:*
<https://www.youtube.com/watch?v=nGa3g2Hifzc>

Kongsberg, Norway, 17th February 2017 – Eelume AS has released the first live video footage of its game changing take on underwater intervention vehicles. With the support of Kongsberg Maritime as a development partner, the unique new Eelume robot has torn up the marine robotics rulebook to create a futuristic, snake-like vehicle designed to live permanently underwater and carry out underwater intervention tasks that would normally require the mobilisation of expensive surface vehicles for divers or to launch and retrieve ROVs or AUVs.

The footage captured at the PREZIOSO Linjebygg Subsea Test Center during trials in the Trondheimsfjord shows the potential of the Eelume vehicle to significantly improve inspection and light intervention operations on subsea installations. The modular, snake-like design allows the Eelume vehicle to access hard to reach points on subsea structures while its ability to shift into a U-shaped dual arm configuration allows intricate interactions using a diverse toolset including torque tools, grippers and specialised maintenance equipment.

The trials verified and demonstrated the features of Eelume's snake-like underwater robot in a deep-water, marine environment. Eelume confirmed that its vehicle has superior manoeuvrability, in a stable sensor and actuator platform, and can provide easy access to constrained areas not accessible by conventional underwater vehicles. The Eelume solution will dramatically save costs by reducing the use of expensive surface vessels. The solution can be installed on both existing and new fields where typical jobs include; visual inspection, cleaning, and operating valves and chokes. These jobs account for a large part of the total subsea inspection and intervention spend.

“Supported by Kongsberg Maritime’s Marine Robotics department, Eelume’s recent demonstration was the culmination of the last year of development work on this exciting project,” said Richard Mills, Director of Sales Marine Robotics, Kongsberg Maritime. “We have learnt a huge amount during the development phase of the Eelume vehicle, not least the need to configure the system architecture correctly to enable future developments. When completed, the vehicle will operate with a wide range of tools and sensors including KONGSBERG positioning, communications and potentially acoustic inspection sensors and chemical sniffers.”

“Everything is progressing on schedule for the intervention demonstration during the latter part of 2018. The system has proven itself to be a very capable

inspection tool able to reach confined areas with ease. Potential operators and end customers have shown a lot of interest in Eelume, not just because it is an interesting technology, but also because it can do things that no other vehicle can,” concludes Arne Kjørsvik, CEO, Eelume.

Eelume AS is a company sourced from the Norwegian University of Science and Technology (NTNU), and has teamed up with the NTNU Technology Transfer Office, Kongsberg Maritime and Statoil to develop the next generation of underwater robots.

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All Eelume images & videos available for download

here: <https://www.dropbox.com/sh/ixu30qgbd19cpuw/AAAYGXWP4gAlmnvxPcMfScYza?dl=0>

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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 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.

Training courses at locations globally, 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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