



A VR demonstration of KONGSBERG's innovative new digital twin concept is available at ONS 2018

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Kongsberg Digital launches digital twin technology for unmanned production facilities at ONS 2018

Groundbreaking technology connects the digital and physical worlds to enable efficiency throughout the production lifecycle.

ONS 2018, Stavanger, Norway, August 27, 2018 – Kongsberg Digital launches their new digital twin at ONS 2018 in Stavanger, Norway, after a successful feasibility study with Equinor.

Enabling value chain transformation in operations

The new twin is a virtual model of unmanned production facilities for oil and gas. Combined with KONGSBERG's Kognifai solution it becomes a collaborative arena allowing users onshore to explore planned or existing assets offshore. It delivers intimate understanding of operations, behavior, maintenance, costs, performance, and much more. Available on any digital device – from pads to desktops or VR glasses – the twin recreates all the characteristics of real assets in an advanced, data-enriched 3D visualization.

“The digital twin for production facilities allows us to help our customers transform the way they do business and operate in complex industrial settings,” observes Hege Skryseth, Executive Vice President of KONGSBERG and President of Kongsberg Digital. “Integrating previous disparate data together in a single, secure and user-friendly cloud-based platform will provide a multitude of benefits to our customers when connected to our digital platform. Everyone from the engineer in the control room to the CEO in her office will get real time insight into platform operations, and will be able to make better informed decisions.”

Reducing risks and diminishing environmental footprints

The results of the feasibility study with Equinor prove that dynamic simulation is key to the potential of the digital twin. When 3D and physical models, enterprise systems, and process simulators are integrated into the twin, the operator can leverage historical, real-time, and predictive data to optimize workflows and specific operations throughout the asset's lifecycle.

Using the digital twin will improve design quality and processes, enhance cross-discipline collaboration, reduce project and operational risks, and diminish overall environmental footprint. It will also enable autonomous, unmanned, and remotely operated assets for oil and gas production facilities.

The digital twin is a major leap forward for collaborative processes in oil and gas production. It will lead to improved decision support and introduce tangible operational and financial efficiencies.

“Our experience in data-sharing solutions, maritime simulation, and process simulation for production applications has enabled us to develop this new take on the digital twins using cutting-edge technologies,” said Kenneth Nakken, VP Digital Twin at Kongsberg Digital. “The digital twin is now helping drive collaborative processes that can transform the oil and gas

industry. We are looking forward to showing the industry just what it is capable of during ONS.”

The new digital twin is on show at KONGSBERG’s stand #7280 in hall 7 at the ONS and is a duplicate of a physical oil and gas production facility. It demonstrates how KONGSBERG’s solution can inform and streamline work at every stage of an asset’s lifecycle.

A digital twin

- is a virtual model of a physical asset
- gives a full overview of the history and performance of the physical asset during its entire lifecycle
- provides insights that drives business results
- has built-in cybersecurity and lifecycle management to ensure operational enhancements are always available and secure

Kognifai

- is a digital platform that provides an open ecosystem for solutions from KONGSBERG and third parties
- allows sharing of data from all areas of an asset gathered in the digital twin
- acts as a development platform, allowing KONGSBERG and third parties to collaborate and create new solutions across organizations

For further information, please contact:

Haley Zerwas

Kongsberg Digital

Tel: +47 476 73 892

Haley.Zerwas@kdi.kongsberg.com

Saul Trewern

Saltwater Stone

Tel: +44 (0)1202 669244

s.trewern@saltwater-stone.com

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.

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