



KOGNITWIN®



KONGSBERG

KOGNITWIN®

The industrial work surface for a better tomorrow

FEATURES AND BENEFITS:

- Cross-functional collaboration
- OPEX reduction
- Workflow enablement
- Remote operations
- Data-driven decision making
- Predictive maintenance
- Performance monitoring
- Dynamic 'What-if' simulation
- Extensive reporting capabilities

Unify people, data, and knowledge

Digital twin technology offers new possibilities for design validation processes, cross-team collaboration, workflow execution, data unification, and sophisticated simulation capabilities. Kongsberg Digital's industrial work surface Kognitwin fits your facility's operational needs by providing all this in an enterprise level cloud-based platform that unlocks insights into every part of the value chain.

Beyond building a dynamic virtual model of facility assets, it delivers advanced digitalization and analytics to enable data-driven decision making at scale. From upstream to downstream, Kognitwin empowers a wide range of energy facilities to drive successful digitalization and move towards more autonomous operations.

Become an energy expert

Gain full insight into facility assets, unlocking the potential for remote training, data capture, net-zero emissions reporting, and optimized operations. Kognitwin users can navigate through realistic digital environments that replicate facility assets and execute a wide range of actions including cross-team integrated work planning and predictive analysis of asset behavior.

Our industrial work surface helps customers visualize and contextualize operations digitally from any location, at any time, so that anyone in the team can become an energy expert. Leverage the perfect balance between industry standardization and Kongsberg Digital's deep domain and digital knowledge to gain the competitive edge in a rapidly repositioning energy industry.



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KOGNITWIN DATA INGESTION CAPABILITIES:

Operational:

- Time series
- Alarms and events
- 3D
- IoT devices
- Video/audio/images

Engineering:

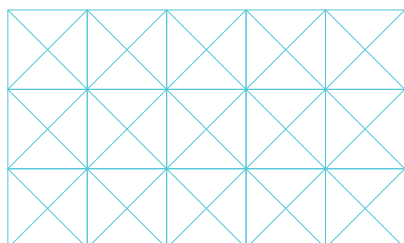
- EDW
- 3D
- Simulators
- P&ID
- Documents

Business data:

- ERP
- Work orders



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Breaking down data silos

A digital twin helps break down operational and project silos to provide a single source of information by ingesting, cleaning, integrating, and contextualizing data in one place. For users to take informed and data-driven decisions, digital twins need a single solid data foundation. That's why Kognitwin is capable of ingesting static, structured, and unstructured data from various sources, rapidly reducing the amount of time required to integrate and contextualize large volumes of data. Now users can connect information from sensors, enterprise IT systems, and analytics engines into a single platform, delivered as a set of user-centric services.

Hybrid machine learning

Kognitwin offers easy access to monitoring, dynamic simulation, and high-quality predictions in Real-Time to help visualize equipment configurations and execute scenario management for hypothetical 'What-if' simulation modelling.

Kognitwin's hybrid machine learning capabilities combine with Kongsberg Digital's advanced and well-proven physics-based simulators to provide more accurate simulation and predictive insights for facility operations, providing the potential for improved production efficiency, performance monitoring, and energy optimization.

Kongsberg Digital's well-proven simulators

K-Spice

K-Spice enables detailed dynamic simulation of oil and gas processes and control systems throughout the whole process lifecycle.

LedaFlow®

LedaFlow® is a dynamic multiphase flow simulator that ensures the safe continuous flow of oil and gas from the reservoir to processing facilities.

End-to-end carbon transparency

Improve energy efficiency and meet net-zero commitments by leveraging digital twin technology to contextualize sustainable energy assets including hydrogen, CCS (Carbon Capture and Storage), Offshore Wind, and Electrification. Kognitwin enables CO2 emissions tracking across the value chain and offers applications for energy management to help users determine emissions sources and extract reliable information for further analysis.

Kognitwin's meaningful, measurable reporting capabilities help provide more reliable emissions calculations for ESG disclosure procedures. This increased transparency in measuring, tracking, and reporting CO2 emissions also provides the advanced ESG analysis companies need to accelerate and scale decarbonization efforts.

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