



Transforming Operations with Kognitwin®, the Industrial Work Surface

September 26, 2024



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Our Company Mission

Enable Smarter, Safer and Greener operations by solving real customer pain points



SMARTER

Increase **operational efficiency** by revealing critical insights, making personnel able to make smarter decisions. **Remove personnel** by digitalising and automating and allowing for **remote operations**.



SAFER

Increase safety, security and reliability in our customers operations by **transparency**, reducing **human errors**, moving personnel **onshore**, **training** and education



GREENER

Improve climate and environmental impact / performance by supporting **fuel and voyage optimisation**, **support smarter decisions**. Enable the green shift as **digital partner**



~90% of all industrial data are yet to be utilised⁽¹⁾

Tangible proof points – aligning profits with sustainability



Enabling **up to 30% increase in productivity** for our customers



Significant cost savings, as well as removing dull, dirty, and dangerous jobs by enabling **remote operations**



An **operator can save up to 2 hours per day** with KDI's solutions



Digitally transforming work processes significantly **reduce human errors and incidents** – as well as taking down the silos



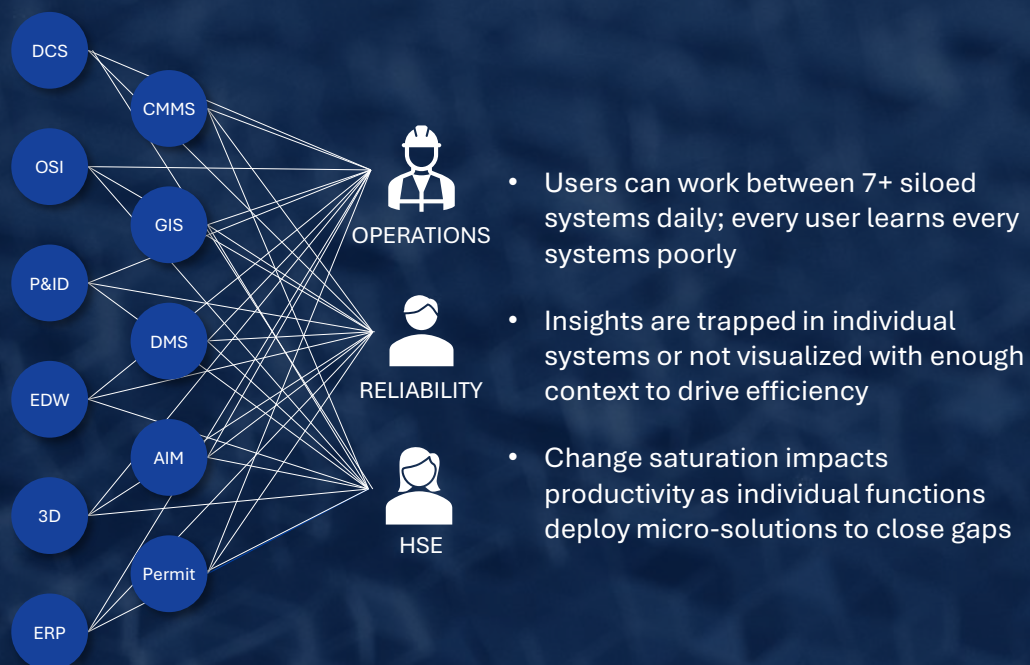
KDI's solutions enable more than **15% reduction in greenhouse gas emissions**



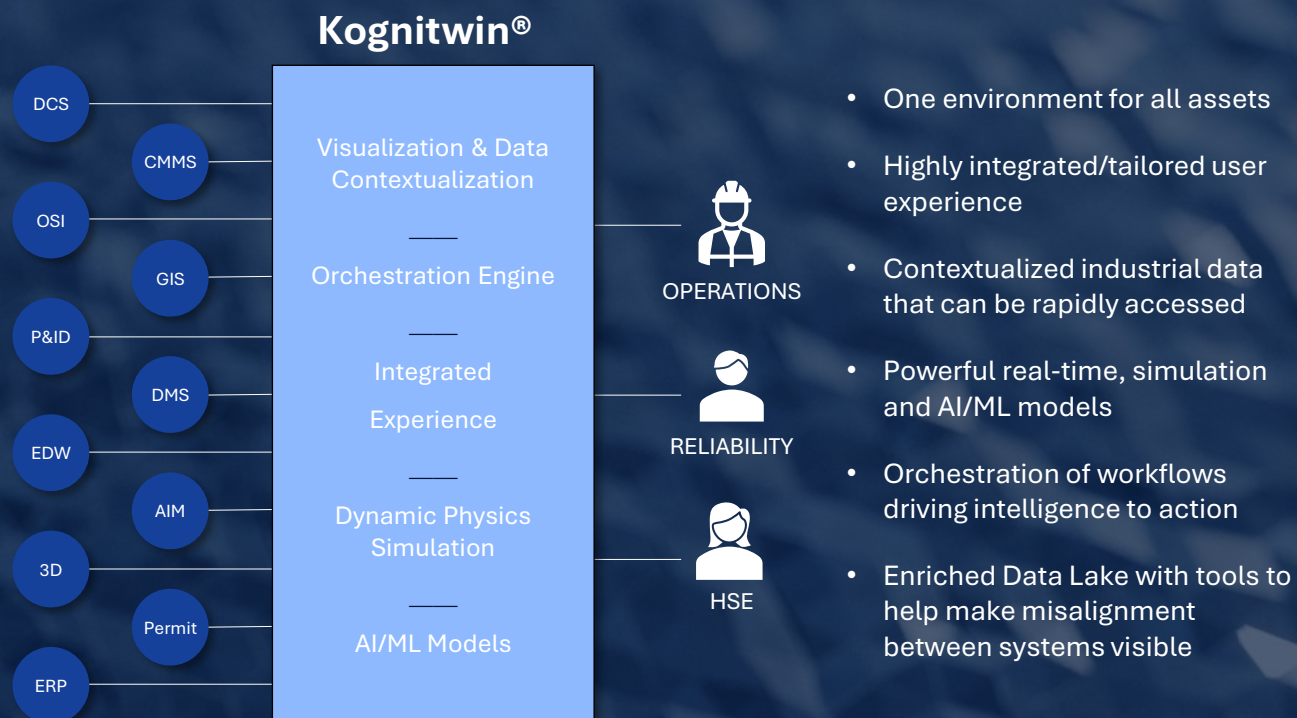
Kognitwin® defragments the end user experience to accelerate value

Visualization, Data Contextualization and AI are at the core of our solution

From...



To...



**This is not a complete list of systems or personas; illustrative example only*



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Kognitwin® offers a single work surface for assets

Asset data is visualized and contextualized in a SaaS environment



One Environment

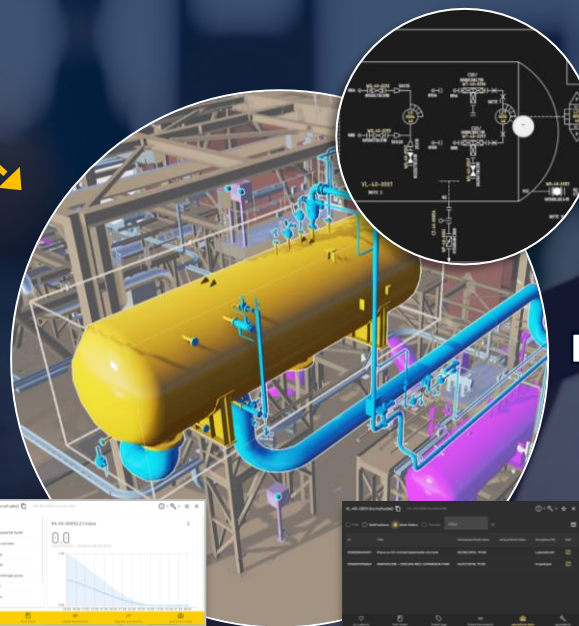
An integrated space for one or multiple assets to drive insights, plan activities, monitor performance, optimize facilities and ensure safe operations



Fully contextualized IT & OT data

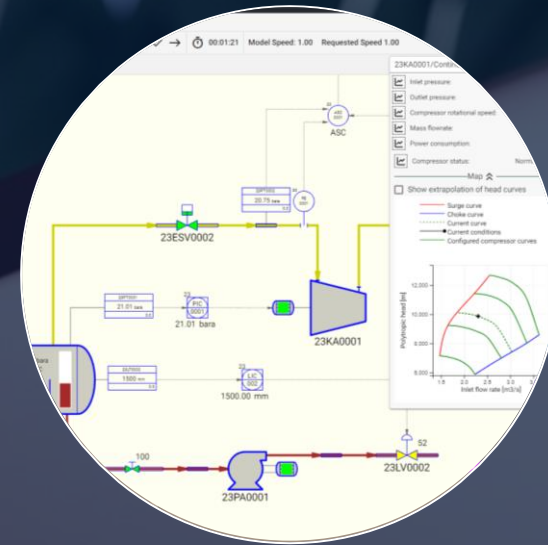
Interoperable platform that ingests and contextualizes available data sources

- ↳ 3D Models, Laser Scans, 360 images
- ↳ Engineering Data & Documents
- ↳ Real-time & Historic Data
- ↳ Maintenance & Inspection Data
- ↳ Permitting



Rich, data driven visualization

Move seamlessly between 2D/3D models which link together data from multiple sources to enable new capabilities



Powered by advanced analytics & simulations

- ↳ Real-time Simulation
- ↳ “What-if” Scenario Analysis
- ↳ Virtual Metering
- ↳ Machine Learning
- ↳ Hybrid Analytics



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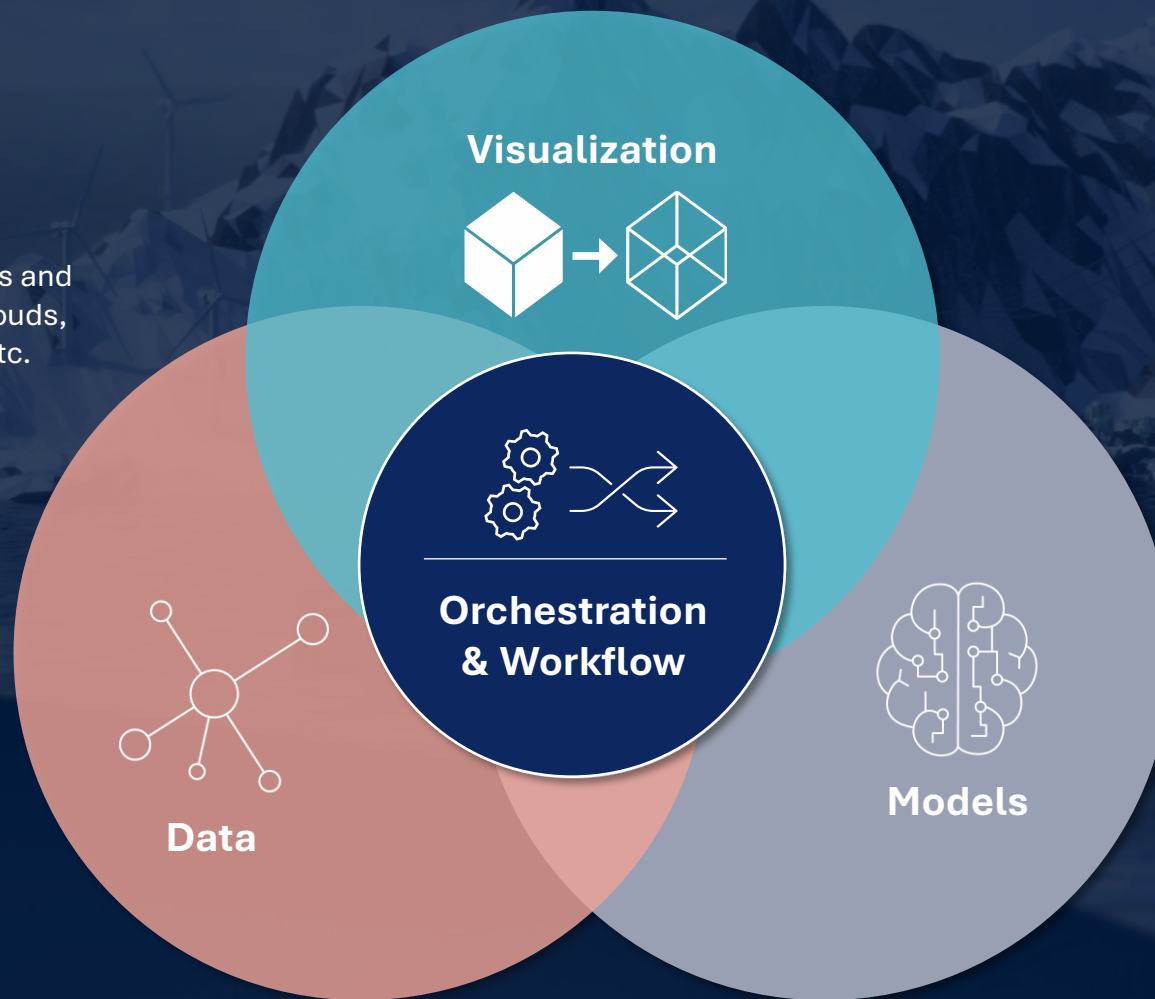
Asset data is visualized and contextualized in a SaaS environment

INTUITIVE 2D AND 3D VISUALIZATION

Kongsberg Digital's **data-driven visualization engine** consumes and visualizes a wide variety of data sources and formats including PDMS, CAD, point clouds, photogrammetry, imaging, scan, GIS, etc.

INDUSTRIAL DATA CONTEXTUALIZATION

Static, structured and unstructured data from varied sources are **contextualized via ML algorithms and manual methods**, rapidly reducing the time required to contextualize and enabling very large volumes of data to be integrated quickly.



REAL-TIME, SIMULATION AND ANALYTICS

KOGNITWIN® taps into **real time data sources** and **simulators** to provide comparative results in Real-time and provides scenario management for 'what if' modeling and greater optimization.



Kognitwin scales across the enterprise, asset types and functional areas

>50
Complex Facilities
Deployed

Kognitwin is used across global assets

At-scale delivery of digital twin to address production, maintenance and engineering teams

>50 digital twins of complex facilities deployed, and more in the schedule

~25,000
users

25,000 industrial users and growing

Executing daily planning, operations and maintenance tasks

3

months per asset
deployment

Avg. time-to-value: 3 Months

Initial deployment time of 3 months enables early value-generation in the business case

One

Industrial Worksurface

A single interface to industrial workflows, analytics – planning through execution

Kognitwin applies across the energy and industrial value chains

