



From digital twins to optimized outcomes

connecting projects and operations across the industrial lifecycle

Disconnected information is holding industry back

Throughout industrial projects and operating facilities, critical lifecycle information is fragmented across documents, systems and departments. Engineers, operators and maintenance teams waste time searching, validating and reconciling data, increasing risk, cost and inefficiency. **20–30% of skilled workers' time** is typically spent finding and validating information locked in silos.

Key challenges

1

Fragmented data and documents

Engineering, construction and operations data are stored in disconnected repositories, often in unintelligent formats such as PDFs and legacy CAD files, making trustworthy access difficult and slow.

2

Inefficient project-operations handover

Handover between projects and operations remains costly and error-prone, representing 1–3% of total project cost, driven by incomplete, inconsistent or unvalidated information.

3

Growing risk and knowledge loss

Aging assets, frequent changes and workforce turnover increase operational risk when accurate, up-to-date configuration information is difficult to trust or locate.

Continuous improvement enabled by data confidence

From data to decisions: how it works

1

Capture

Collect 1D, 2D and 3D engineering data from projects and existing facilities, including "smartified" legacy documents.

2

Contextualize

Link documents, models, tags and equipment into a connected, object-based digital twin.

3

Validate and govern

Apply controlled workflows for document review, management of change and compliance traceability.

4

Connect

Integrate with ERP, maintenance, reliability and scheduling systems for on-demand contextual insight.

5

Evolve

Enable predictive, informed and increasingly autonomous operations.

From data to decisions: a digital twin foundation for smart operations

Octave InConcert (formerly HxGN SDx2) enables digital twins that establish an authoritative, evergreen single source of truth unifying project and operational information across the asset lifecycle, enabling better decisions today and autonomy tomorrow.

- Single-pane-of-glass access to lifecycle information
- Integrated project and operations workflows
- Smart automation of validation, change and handover

Business value of digital twins

19%

average cost savings
and revenue gains

8/10

executives report reduced
carbon emissions enabled
by digital twins

1-3%

project cost reduction by
eliminating traditional
handover burdens

How we help our customers

Perstorp Group – Specialty chemicals

"In many critical areas, such as core documentation and P&IDs, it has become much easier to find the right information than before. The information is interconnected and linked to equipment and tags, which is very efficient."

Tor Lindström, Director of Asset Integrity,
Perstorp

Results achieved:

- Unified project and operations data across sites
- Faster, more reliable access to lifecycle information
- Reduced document validation effort
- Seamless handover between projects and as-built

[Read more](#)

Nynas – Refining and specialty products

"Revision control, tag management and handover from engineering to operations is faster and easier when everybody has access to the right information."

Phil Woodall, SmartPlant Enterprise Governor, Nynas

Results achieved:

- Single version of the truth for engineering and operations data
- Controlled management of change with auditable traceability
- Faster project handover from EPCs to operations
- Improved maintenance and decision-making efficiency

[Read more](#)

Discover how Octave helps connect projects, operations and the future of autonomous industry.

[Learn More](#)

About Octave

Octave is a leader in enterprise software, turning data into decisive action and intelligence into your edge. Our software solves for and simplifies complexity, from the design and build to operations and protection of people, property, and assets – for any scope, at any scale. For decades, we've partnered with customers to sharpen performance, elevate efficiency, and amplify results. From factory floors to entire cities, our solutions are tuned to scale up what's possible from day one onward.

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