



Power up for the future with digital transformation



Maximize your operations

- Digitalize your critical processes, procedures and permits to optimize your operations
- Capture, structure and store critical asset, situational and quantitative information digitally to support interconnected teams across the enterprise
- Centralize and disseminate critical shift information, operator rounds data, work control details, personnel updates, safety protocols, maintenance records and process information throughout the entire organization



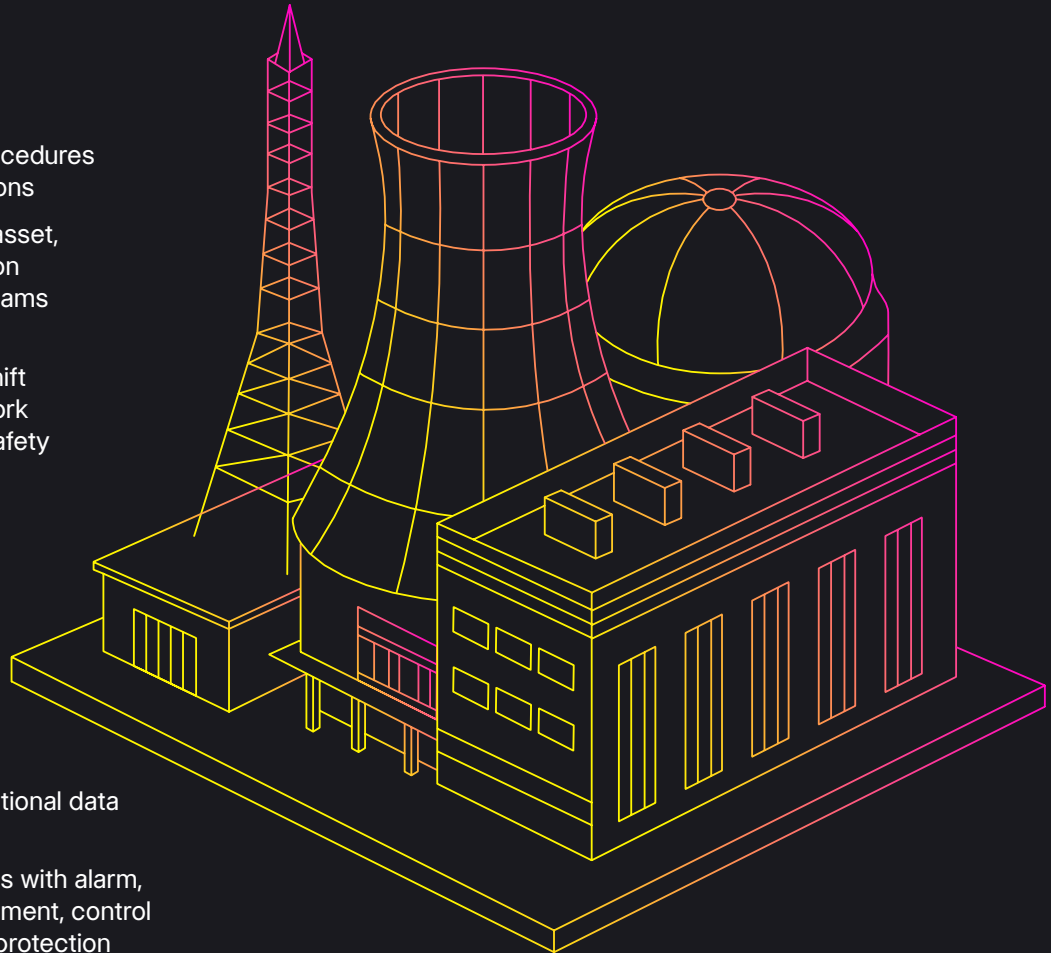
Connect your operational data

- Enhance information connection and interoperability by aggregating operational data and enabling a digital backbone
- Enable advanced situation awareness with alarm, operating window/boundary management, control loop performance and independent protection layers (IPL) management
- Defend your operational technology and industrial control systems (OT/ICS) landscape as part of your cybersecurity strategy



Optimize asset performance

- Move from reactive to predictive maintenance to reduce the risk of unexpected downtime and decrease operational costs
- Make better capital planning decisions across the asset lifecycle to improve performance, productivity and profitability
- Leverage automation and intelligence to reduce waste by improving asset energy use and extending asset life



Transform your journey

- Build and maintain an engineering information management data ecosystem throughout the asset lifecycle, allowing for a continuous journey of operational excellence
- Deploy a comprehensive digital twin that turns complex data into actionable insights and connects digital twins across the value chain to create a unified digital thread.

Digitalization delivers value across your power organization



Plant management

Under pressure of severe time constraints, plant managers must make fast, informed decisions affecting various areas. That requires accurate, real-time data from every critical system and source. Octave's solutions for visualizing plant data encompass safety, environmental, operational and cost aspects and quickly deliver useful, actionable and corrective insights into plant performance. This allows plant managers to pinpoint and prioritize areas for improvement. Integrating previously inaccessible digital information – including mobile operator rounds, integrated operations logs, excursion management and workflow capabilities – delivers new insights and enables efficient intervention.



Health, safety and environment (HSE)

Visibility across the supply chain is essential. HSE personnel collaborate closely with various operational disciplines to ensure adherence to work permits, isolation management and risk assessment policies. They rely on data sourced from automation systems, operating procedures, operator rounds, shift handovers, incident management and management of change (MoC) processes. Assessing a plant's HSE performance requires pulling accurate data from multiple sources. Compiling this information for environmental and safety compliance reports is labor-intensive. Automating data collection and reporting streamlines compliance, allowing HSE personnel to focus on guiding operations teams and improving safety performance.



Control room operations

Control room operators manage constant demands across the control system and grid management systems, coordinating activities with field operations and monitoring for process abnormalities. Operations superintendents are responsible for ensuring operators adhere to the correct processes and procedures while also driving continuous improvement across daily operations. Octave's solutions reduce nuisance alarms, improve the shift handover process, standardize the permitting process, manage isolations and ultimately improve situation awareness in high-pressure environments.



Field operations

Field operations serve a pivotal role in maintaining plant operations, but inefficient, paper-based systems and limited access to information can slow response times and impact efficiency. Digitally transforming safety-critical operational work processes, such as operator rounds and inspections, control of work activities, maintenance requests and the provision of on-demand equipment, work instructions and procedure information can significantly enhance the efficiency of field workers. Octave's digital solutions enable truly connected workers.



Maintenance and reliability engineering

Engineers play a crucial role in improving plant reliability and resilience, but the information they need is often fragmented across disconnected systems and is difficult to access. Aggregating data from engineering sources and design tools, data historians, maintenance records, control loops, operating limits, alarms, operator change events, automation/safety system configurations, operating procedures and shift handover records can streamline and automate improvement activities. Contextualizing and organizing this data into actionable insights further advances operational excellence.



Bringing it all together

Implementing a comprehensive digital twin ecosystem with [Octave InConcert](#) (formerly HxGN SDx2), [Octave Tempo Operations Management](#) (formerly j5 Operations Management Solutions), [Octave Tempo Operating Procedures](#) (formerly AcceleratorKMS), [Octave Attune EAM](#) (formerly HxGN EAM) and [Octave Tempo Control System Effectiveness](#) (formerly PAS PlantState Integrity), creates a connected data environment that supports operational excellence across the asset lifecycle. [Octave Cyber Integrity](#) (formerly PAS OT Integrity), protects the OT/ICS foundations of your operations.

Transform operations with connected intelligence at scale.

Visit octave.com today to discover how.