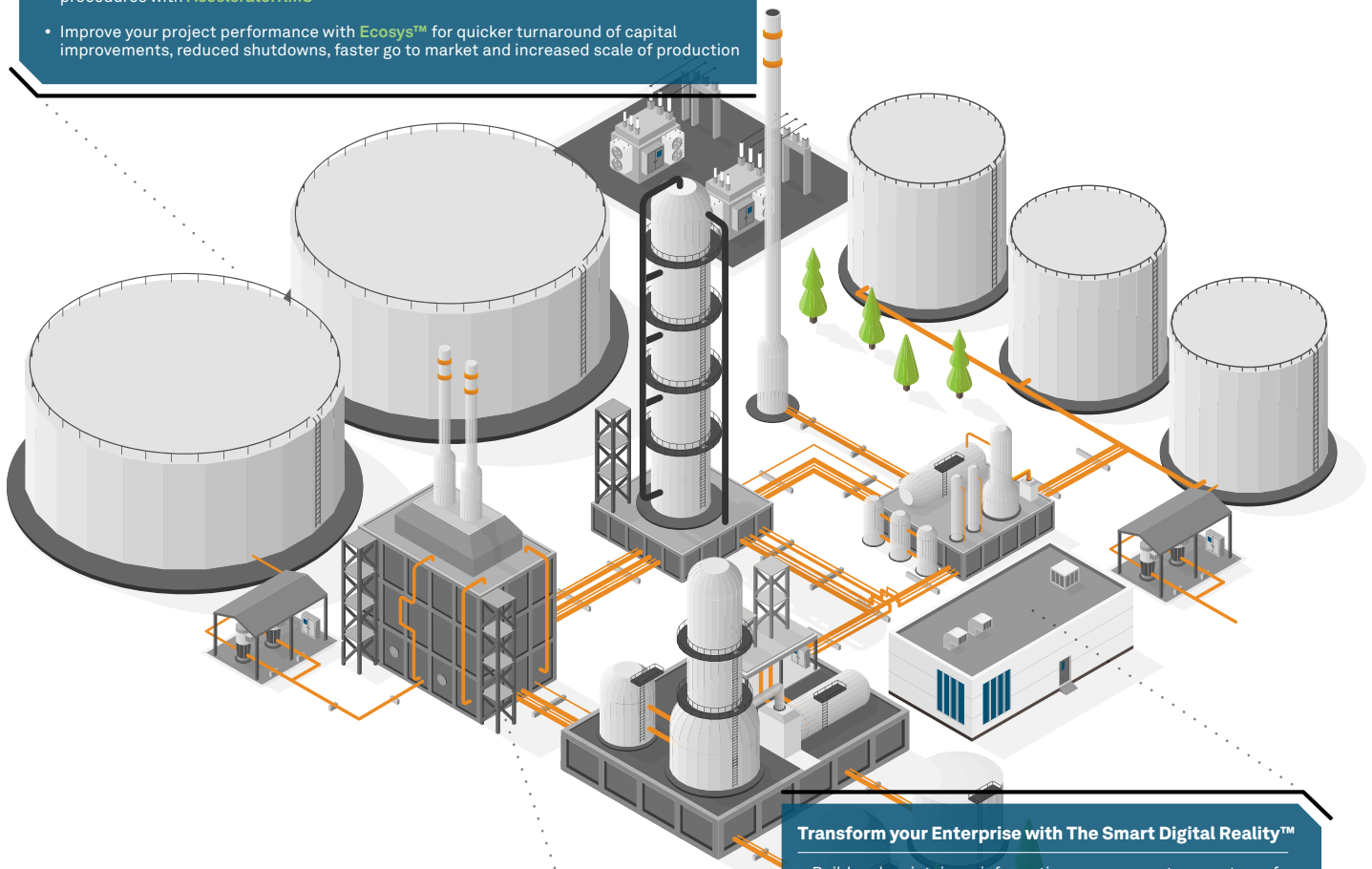# Digitalizing the Chemical Industry of Tomorrow Today

Digitalize Projects, Processes, Procedures and Permits to Maximize Operations

- Digitalize critical processes, procedures and permits to optimize your plant operations

- Capture, structure and store asset, situational, qualitative and quantitative information digitally to support a more collaborative and connected workforce

- Document and manage the execution of safety-critical industrial processes with **j5 Operations Management Solutions**

- Expedite the digital transformation of paper-based, high-risk operational procedures with **AcceleratorKMS**

- Improve your project performance with **Ecosys™** for quicker turnaround of capital improvements, reduced shutdowns, faster go to market and increased scale of production

Transform your Enterprise with The Smart Digital Reality™

- Build and maintain an information management ecosystem of interoperable technologies connected to the digital backbone for a **continuous journey of operational excellence** throughout the asset lifecycle

- Deploy a comprehensive digital twin to analyze and transform complex data into actionable information that improves asset operations across the value chain

Connect and Protect Your Operational Data

- Unlock siloed data for connected, visible and usable information with **HxGN SDx® Operations** to reduce risk and improve safety through contextual data-driven decisions

- Ensure safe, reliable and compliant industrial operations with alarm/boundary/Independent Protection Layers (IPL) management, control loop monitoring and tuning with **PAS PlantState Integrity™**

- Secure your operational technology (OT/ICS) landscape with **PAS Cyber Integrity®** as part of your complete cybersecurity program

- Centralize and visualize all types of asset information from data historians, the CMMS, the DCS, **EAM**, PLC and SCADA systems for maximized interoperability

HEXAGON

Digitalization Delivers Value Across Your Chemical Organization

Plant Management

You have to make the right decisions quickly with information that may be siloed in disparate sources.

With Hexagon's digital solutions, we can help visualize important plant safety, environmental, operational and cost data to provide a rapid and comprehensive view of current plant performance which enables you to focus on areas that need your attention most. In addition, you can be even more effective with enhanced awareness and improved oversight from digital information previously unavailable such as mobile operator rounds, integrated operations logs and excursion management with workflow management capabilities.

Health, Safety and Environment (HSE)

You help ensure compliance with work permits, isolation management and risk assessment policies while simultaneously relying upon data from operation procedures, operator rounds, shift handovers, incident management and management of change processes. And as you measure the HSE performance of your plant, you require information from multiple sources which can make the compilation of data for environmental and safety compliance reports an arduous exercise.

However, Hexagon solutions can automate and streamline data collection and report creation so that you can focus on what matters most as an effective and trusted safety advisor.

Control Room Operations

Constantly bombarded with demands for your attention – from control and grid management systems to field operation coordination activities to consistent observation for process abnormalities - you help ensure that operators follow the right processes and procedures and drive continuous improvement.

By deploying Hexagon's solutions, you can reduce nuisance alarms, improve shift handover, standardize the permit process, manage isolations and improve situational awareness.

Field Operations

Your role is critical to plant operations, yet your efficiency is hindered due to cumbersome, paper-based systems and limited access to crucial information.

When safety-critical operational work processes like operator rounds and inspections, control of work activities, maintenance requests, work instructions and procedure information are digitally transformed, operational roles like yours can become truly empowered as a connected worker, delivering safety, efficiency, quality and productivity every shift.

Maintenance and Reliability Engineers

You rely on numerous sources of information to develop improvement plans that will enhance operational reliability and resilience. Unfortunately, the data is typically siloed away in multiple disconnected applications and systems.

However, by digitalizing your projects and operations, you can unite engineering sources, design tools, data historians, maintenance records, control loops, operating limits, alarms, operator change events, automation/safety system configurations, operating procedures and shift handover! Hexagon's digital solutions can help simplify, contextualize, curate and even automate valuable data into actionable information – which drives (and even accelerates) the operational excellence journey!

ICS Engineers

You are focused on ensuring that process operations are running safely and profitably. Cybersecurity of the OT/ICS network is not your first priority, but you must validate that any security measures put in place do not impact the availability of the network and cause unplanned downtime.

With Hexagon's cybersecurity capabilities you can make your industrial operations more secure and resilient to cyber risks by gathering a comprehensive asset inventory, understanding the vulnerabilities in your control systems, effectively managing patch updates, and equipping your personnel with trusted restore points in the event of a cyber or operational incident.

Read more about Hexagon for chemicals ≫

HEXAGON