

Real-Time Insight for Maintenance and Turnaround Planning

Executive Summary

In heavy industry, limited access to trusted engineering information can extend shutdowns and increase safety risks. A global manufacturer needed to modernise maintenance and turnaround planning across multiple sites and systems.

Assai Viewport brought maintenance information, engineering documents and plant information together in one visual environment, giving planners and technicians immediate access to trusted engineering information for safer, more efficient and on-schedule turnaround execution.

The Challenge

Managing turnarounds across disconnected systems created blind spots and costly coordination delays.

- Data spread across ERP, PI and engineering systems
- Limited visibility into maintenance dependencies and permits
- Slow engineering information retrieval during shutdowns and inspections

The manufacturer needed a single engineering information environment that connected work packages and engineering documents and asset information, ensuring every turnaround activity was planned using trusted engineering information.

Results

Area	Outcome
Turnaround planning time	40% reduction
Engineering information retrieval time	60% faster
Coordination effort	45% reduction
Safety incident risk	Improved turnaround safety
Return on investment	<12 months

| The Assai Solution

Assai Viewport connected maintenance, safety and engineering information in a governed engineering information environment, linking teams and systems throughout the turnaround lifecycle. The platform replaced fragmented information with a connected engineering information environment that delivered accurate, real-time information for every task.

Key capabilities included:

- Visualize work orders and permits directly on P&IDs
- Connect SAP and engineering document repositories in real time
- Provide centralized access for planners, supervisors and technicians
- Deliver role-based dashboards for maintenance, safety and operations teams

Implementation delivered immediate gains in work preparation, coordination and turnaround readiness. Through a simple browser interface, users now access trusted maintenance and engineering information quickly, improving decision-making, reducing risk and strengthening shutdown control.

| Project Insight

Assai Viewport provided trusted engineering information in context, accelerating shutdown planning, improving coordination and strengthening plant safety.

| Strategic Value

By connecting maintenance, engineering documents and asset information across systems, the manufacturer gained greater visibility and control throughout turnaround planning and execution.

The organisation established a scalable engineering information foundation that supports safer maintenance, more efficient turnarounds and better operational decision-making across its global operations.