

## INTERGRAPH SMART® CLOUD



# LEADING OIL OPERATOR UTILIZES SMART CLOUD FOR MEGAPROJECT

### Key Facts

**Project Location:** Middle East

**Operator JV:** Lead Operator (45%); Oil Company partner (30%); State Partner (25%)

**Products Used:**

SmartPlant® Fusion  
SmartPlant Foundation  
SmartPlant Markup Plus  
Intergraph Smart® Data Validator (SDV)  
SmartPlant Interop Publisher (SPIOP)

**Delivery Platform:**

Lead Operator's in-house configuration via Intergraph Smart Cloud

### Project Summary

This project is located on one of the world's largest and richest oil fields, with an estimated 38 billion barrels of oil in place (daily production of 200,000+ barrels). The Lead operator developed the field together with JV partners. The project has undergone a revamp of brownfield installations as well as substantial development of greenfield oil processing facilities and new wells.

The development was a pathfinder for the lead operator's integrated engineering environment, using Hexagon PPM's tool suite in Intergraph Smart® Cloud. In addition, the project utilizes an on-premise EDW (data warehouse), using a standalone SmartPlant® Foundation (SPF) / Intergraph Smart Data Validator (SDV) combination, which is used to load documents and data into the company's on-premise document control (DC) system and its document management (DM) system, SharePoint.

The project determined to retire the integrated tool suite in the cloud and instead sought to make fuller use of the company's evolving DMDC strategy, as well as leverage the information portal success that had been pioneered by a previous megaproject.

### Business Benefits

Hexagon PPM provided a phased architectural approach for the project. Phase one delivered a rapid implementation of an information portal based on Fusion, SDV, and SmartPlant Interop (SPIOP).



Further phases were designed to move the on-premise EDW (SPF/SDV) into the cloud, based on the DMDC configuration as developed for the previous mega project. This phase integrates with the operational enterprise system and paves the way for the eventual retirement of the on-premise SharePoint and document control system.

- Fusion is used to capture documents, tags, and information from registers to ensure completeness and consistency of all engineering data.
- The platform for subsequent movement of the on-premise EDW into the cloud and retirement of on-premise applications ensures common data standards and systems.
- Configurations automatically ensure a standardized approach and adherence to the lead operator and international standards.

- More efficient procurement and economies of scale
- Seamless handover to commissioning, startup, and handover

## Future Plans

Phases architected for this project include:

- Rapid implementation of information portal based on Fusion, SDV, and SPIO P
- Move the on-premise EDW (SPF/SDV) onto Intergraph Smart Cloud
- Upgrade the EDW to support DM and DC functions
- Integrate the DMDC into the cloud with the company's operational SAP
- Migrate documents and data from existing DC and SharePoint systems into the Hexagon PPM DMDC

## Smart Cloud for Operations

Intergraph Smart Cloud can help operators meet the challenges of quality, consistency, and maintaining the high value of data-centric systems for both large and small projects. The Smart Cloud environment can transition from project to operations faster and much more effectively by providing:

- Seamless handover from FEED to detail design
- Early access to common project plan, design data, and equipment data

## ABOUT HEXAGON PPM

Hexagon PPM is part of Hexagon (Nasdaq Stockholm: HEXA B; hexagon.com), a leading global provider of information technology solutions that drive productivity and quality across geospatial and industrial landscapes.