Leveraging Unified Engineering Ways of Working for Asset Design & Operations

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Asset Projects and Operations Cultural Transformation from Document Centric to Data Centric Ways of Working

Challenge
- Data warehousing and governance were challenging due to manual handover of documents and data in silos to Asset by Projects.
- Inconsistent information from multiple sources could result in safety incidents and disruptions in production Operations.
- Needed to build Unified Engineering to facilitate faster decision making with availability & accessibility of right data at the right time.

Solution
- Deployed AVEVA™ Unified Engineering to cater to Shell Asset requirements and integration with document management system, Digital Twin and other tools.
- Enabled single platform work methodology for Asset and Contractor partners.

Result
- Digital handover of Projects to Assets (P2A)
- Automation of Isolation Job Packs & Standardization resulted in productivity gains compared to manual methods.
- Smart MTO led to cost efficient and faster Turnaround (TA) planning and execution.
Process Isolation Job Pack Automation
Smart MTO

User Input

Output – Smart MTO

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Recap

- AVEVA™ Unified Engineering (UE) has enabled a Single Platform of collaboration for Asset Projects, Contractor Partners and Asset Operations

- Aspiration of true Digital handover of Projects to Assets (P2A) is delivered by UE

- A Paradigm shift from Document Centric to Data Centric Ways of Working by deploying UE

- Safe Execution of work by automated Isolation Job Packs & standardization resulted in productivity gains compared to manual methods.

- Smart Material Take Off minimized manual efforts & led to cost efficient and faster Turnaround (TA) planning and execution.

The Digital Transformation roadmap is a holistic approach of integrating People, Process, Plant, Technology & Data. The Unified Engineering is the foundation enabling Technology & Data to achieve our Aspiration.