



Case Study

Digitizing Plant Operations

Industry 4.0 at scale for US-based Oil & Gas Major

DCP is the only American Energy company to be included in the World Economic Forum Lighthouse Network for adopting Industry 4.0 at scale.



Business Challenges

- ✓ Long cycle times for business decisions
- ✓ Limited visibility of real-time asset performance and associated accuracy of production reporting
- ✓ Inability to identify production losses & foresee unplanned downtime
- ✓ Inability to effectively utilize data for production optimization

Solution Highlights

Legacy equipment instrumentation for effective data capture

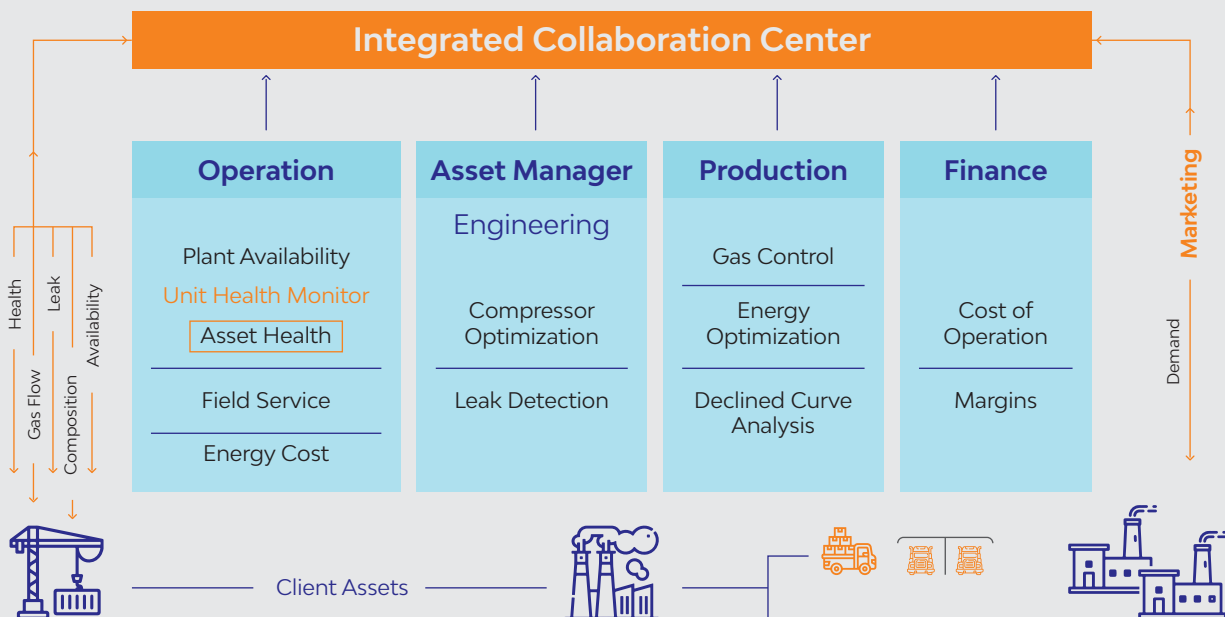
Creating an asset hierarchy for a connected ecosystem

Leveraging advanced historians for data aggregation, visualizations & simulations

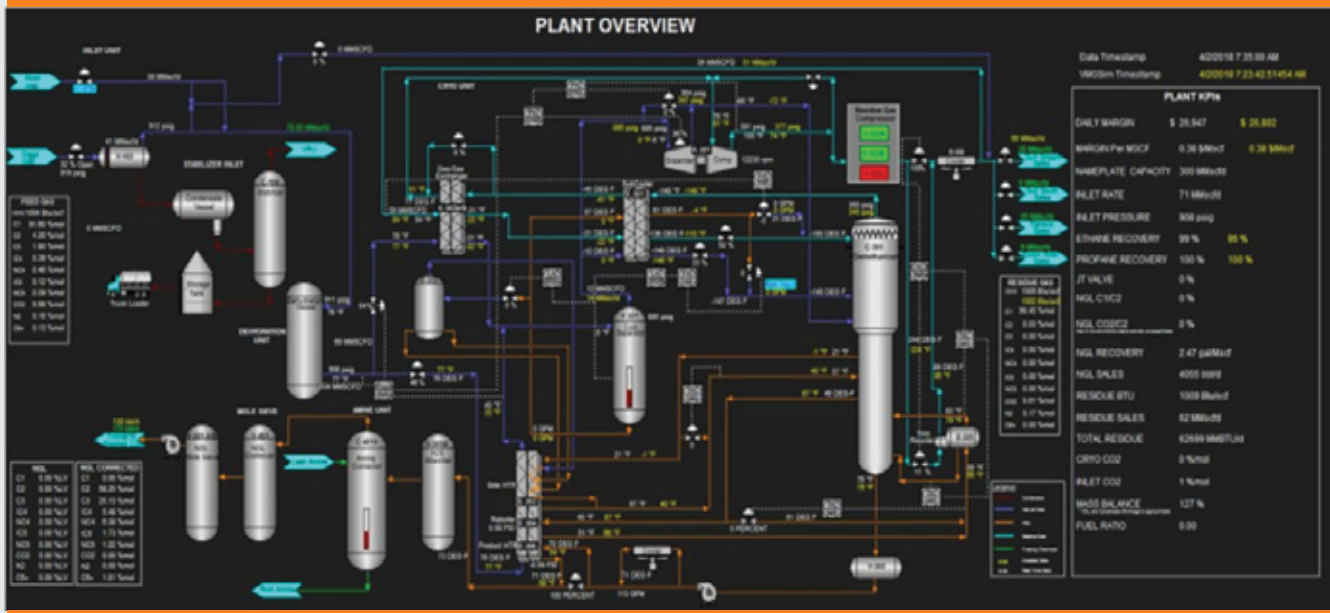
Digital twins and AI/ML algorithms for enabling predictive maintenance

Correlating OT data with Enterprise (Financial, Back-office) data for decisions

Bringing End-to-End Visibility in Operations



Digitizing plants globally by Interlinking critical operational assets and data with enterprise data for end-to-end operations visibility & decision making.



Meeting market demand at right price with cost optimization by linking real-time & modelled data to provide current & potential value of plant operation.

Outcomes Delivered

1

Creation of ICC to provide centralized, integrated & real-time visibility, workflows & data-on-the-go across plants nationwide for optimized operations.

2

Real-time production surveillance & optimization, as well as correlation of operations data with contracts data to support operations decision making.

3

Availability of real-time high-quality data enabling modern maintenance paradigm - predictive & risk-based maintenance.

4

Remote monitoring of equipment health and performance minimizing the need for engineers to drive to assets to inspect them.

Business Benefits

We have successfully delivered USD 13 million of margin improvement & an overall value of USD 50 million + ROI.

Some of the key KPI improvements:

50%

Improved uptime, & reduced ad-hoc maintenance

20%

Reduction in operating costs

70%

Reduced field crew inspection miles & 28% lower repair visits

12,500

MMBTU average volume gas wastage saved per month w/ improved track & trace

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