



## CASE STUDY

**Design and Development**  
of Industry 4.0 based Pipeline  
Inspection and Integrity Platform



Client is the world's leading Oil Field Services company, headquartered in the US

## Client



## Business Challenge

- ❖ Lack of data-driven risk assessment and failure prediction model for the pipeline network
- ❖ Need for a reliable system for leak detection and oil loss
- ❖ Limited visibility on the health of pipeline network leading to increased unscheduled breakdowns

- ❖ Design and development of a fully integrated platform to enable pipeline operators to monitor and control pipeline inspection data across locations
- ❖ Pipeline integrity evaluation and data lifecycle management based on data capture via pigging operation
- ❖ Visual representation of pipeline network using ArcGIS
- ❖ Report templating based on analysis, risk matrix creation, and recommendation



## ITC Infotech Solution



## Business Benefits



Pipeline risk assessment workflow automation resulting in **30% reduction** in maintenance effort

**Maintenance cost optimization** and achieving increased asset life

**Reduced leakage volume** thereby decreasing transit loss



## About ITC Infotech

ITC Infotech is a leading global technology services and solutions provider, led by Business and Technology Consulting. ITC Infotech provides business-friendly solutions to help clients succeed and be future-ready, by seamlessly bringing together digital expertise, strong industry specific alliances and deep domain expertise. The company provides technology solutions and services to enterprises across industries through a combination of traditional and newer business models, as a long-term sustainable partner.

[www.itcinfotech.com](http://www.itcinfotech.com)

