The digital oilfield of the future

SOLUTIONS FOR THE MODERN OIL & GAS COMPANY

Oil and gas companies of all sizes are partnering with AWS to run business and technical workflows in upstream, midstream, and downstream. Old workflows are running faster, manual tasks are automated, and work is done collaboratively, allowing companies to reduce costs, find more oil faster, and make better decisions.

But AWS is also helping oil and gas companies completely transform the industry. Imagine a future with drone-enabled corrosion detection, eliminating appraisal wells through the use of Machine Learning, AR/VR to enable remote training for production operators, computer vision to improve safety outcomes, and frictionless purchasing at every convenience store and pump.

Benefits

**FIND OIL FASTER**
Use machine learning and big data to extract deeper insights. Automate manual tasks and improve the speed and accuracy of decision making.

**RECOVER MORE OIL**
From the oilfield to the gas station, AWS makes it easy to connect more sensors so you have more control over data and equipment to prevent downtime and improve efficiencies.

**REDUCE THE COST PER BARREL**
The AWS global footprint, with its efficiencies from automation and economies of scale, passes on savings to you, while reducing management overhead.

**REDUCE RISK AND ENSURE COMPLIANCE**
AWS supports a broad and complete set of security and compliance programs including NIST and ISO, which help protect business-critical data, and meet compliance and data residency requirements.

<table>
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<tr>
<th><strong>20%</strong></th>
<th><strong>2X</strong></th>
<th><strong>$52M</strong></th>
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<td>20%+ reduction in workover frequency *</td>
<td>Improved reservoir potential *</td>
<td>$52M+ in annual economic value with predictive maintenance.*</td>
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*Leading Unconventional Gas Operator – C3IoT Case Study
*TNO P11 – Olympus Challenge – Coventry university
*Cloud-mal Case Study: Large Independent Oil Produce Leverages Advanced Analytics Platform to Predict Failure of Oilfield Equipment
OIL & GAS INDUSTRY USE CASES

AUTONOMOUS SURVEILLANCE
Monitor facility conditions to detect equipment failure, corrosion, or security breaches.

PREDICTIVE MAINTENANCE AND REFINERY OPTIMIZATION
Improve operations and system uptime.

CAPITAL PROJECTS
Digital twins for complex scenario modeling to improve decision making.

SUBSURFACE DATA LAKES
Derive deep insights from a broad set of structured and unstructured data.

SEISMIC PROCESSING & INTERPRETATION
Improve real-time collaboration and data visualization with HPC.

PRODUCTION MONITORING AND OPTIMIZATION
Improve production monitoring and optimization with IoT solutions.

RESERVOIR SIMULATION
Accelerate simulations and iterate and fine-tune models faster.

HEALTH, SAFETY, AND THE ENVIRONMENT (HSE)
Remote training and maintenance with AR/VR to improve worker safety.

RETAIL
Enhance customer experience with frictionless purchase.

TRANSPORTATION

STORAGE

REFINEMENT

WORKFORCE

DISTRIBUTION

Accelerate your journey

AWS has a comprehensive oil and gas partner network with the domain expertise to help you innovate and transform faster. To see a complete list and learn more about other partners, visit the AWS Partner Website: [aws.amazon.com/partners](http://aws.amazon.com/partners)

Companies leading innovation with AWS

bp
Increased performance of its lubricants ERP system with 40% faster response times.

Woodside
Implemented predictive maintenance, scaling 200K sensors with a flick of a switch.

TechnipFMC
Enhanced security and created a foundation for future application migrations.

Shell
Enhanced cybersecurity by integrating its SIEM with advanced analytics.

A number of companies in the oil and gas industry are already using AWS. Contact our experts and start your own AWS Cloud journey today: [aws.amazon.com/oil-and-gas](http://aws.amazon.com/oil-and-gas)