The world's leading upstream oil and gas companies can **thrive in any moment** with integrated analytics, operationalized at scale

Realize intelligent oil field by adopting a data-driven approach to improve safety, productivity, and quality of life.

**Reduce risk, increase recovery**

An international oil company maximized well production output by dramatically reducing production delays, minimizing planned and unplanned downtime, and effectively maintaining each well. All of these improvements were driven by the Teradata Analytics Platform.

**Achieve operational resilience**

A leading unconventional driller realized a $45 million yearly savings by using the Teradata analytics to identify and mitigate catastrophic failures caused by human factors.

**Optimize to meet digital energy future**

A leading international oil company brought data-driven analytics to its reservoir surveillance plans using 4D seismic, a key technique supporting its goal of increasing the recovery rate on its oil and gas fields to 70 percent (compared with a world average of 30 percent).

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# The oil and gas industry is challenged

- Uncontrollable events and climate volatility
- Extremely technology and capital intensive
- Digital transformation needs to work with legacy investment
- Massive data coming from all sources calling for insight

The most successful oil and gas companies are deploying world class analytics, artificial intelligence, and an enterprise data architecture. This core foundation empowers future operating models to:

> "To a large extent, the financial results of oil and gas companies depend on the performance of complex, capital-intensive process facilities. Advanced analytics, when applied properly, can unlock the production potential facilities and enhance asset investment returns across the entire industry."
>
> – McKinsey

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| Realize an intelligent oil field to reduce risk, improve margins, and make better, faster decisions | Leverage the industrial IoT and adopt a data-driven approach to improve safety, productivity, and quality of life | A leading upstream oil and gas company improved margins on its field by bringing sensor data from the field into its logistics planning, drastically reducing shut-ins and increasing overall production. |
| Analyze extensive and complex IT and OT data together, effortlessly, to drive efficiency and optimization | Only when the IT world with financial, logistic, and planning information is integrated with the OT world of control systems and sensor data, etc., can companies realize operational efficiency in their daily work | A leading oil and gas company in the U.S. achieved significant cost savings with improved operational efficiency and data-driven strategy and planning processes. Working with Teradata, it generated insights from its existing enterprise data asset to lower supply costs, gain cascading cost insights, and continually share knowledge among busines units to minimize duplicate efforts. |
| Take advantage of AI and machine learning to improve predictions, make better decisions, and remove tedious, repetitive workloads from limited, highly-skilled domain experts | Ensure the future data architecture supports new data- driven techniques while meeting the complex needs of upstream oil and gas workflows | Multiple oil companies around the world are turning to Teradata ecosystem architects for a technology-neutral architecture review or blueprint for their digitalization data platform, ensuring they get their data integration and governance strategy from day one. |

# Why Teradata

We have a long history, working with the world's largest, most complex companies. They have confidence in our ability to meet their short, medium, and long-term analytical requirements.

We deliver against our promises, supporting our customers in confidently embracing their most complex analytical ambitions, while driving hundreds of millions of dollars in value.

We are recognized for our superior technology, vision, and capability based on integration of Teradata and open source technologies deployed in the public or Teradata cloud, and/or on-premises across Teradata and commodity hardware.

We provide high-performance analytical ecosystems, experienced data scientists, industry and implementation experts that empower our clients to increase revenue and drive operational efficiency.

## Our Objective
Help remove technical barriers that hinder success

## Our Philosophy
Enable the discovery and operationalization of new insights, at scale, across any business

## Our Focus
Deliver ROI, enabled by the best analytics platform and optimal cost/performance mix

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