

**THE OIL AND GAS INDUSTRY,**

a cornerstone of global energy, encompasses vital resources upstream, midstream, and downstream. Tasked with meeting ever-increasing energy demands, this dynamic sector must navigate complex environmental regulations while prioritizing operational precision and environmental stewardship.

In this evolving landscape, spatial data, particularly the comprehensive datasets provided by **Altalis**, has emerged as a game-changer. These insights empower companies to optimize site identification, conduct thorough environmental assessments, and meticulously plan drilling and pipeline operations, all while ensuring compliance with stringent environmental standards.

By leveraging spatial data, the oil and gas industry can:

**MAKE INFORMED DECISIONS THAT BALANCE PROFITABILITY WITH ENVIRONMENTAL RESPONSIBILITY.**

**MEET GLOBAL ENERGY DEMANDS WHILE ENSURING A SUSTAINABLE FUTURE.**

# The Oil and Gas Industry at a Crossroads

Balancing Profitability and Environmental Stewardship with Spatial Data Insights

**INDUSTRY CHALLENGES AND TRENDS  
SHAPING THE FUTURE LANDSCAPE**

Three major areas are propelling the industry towards transformation:

**DIGITALIZATION** The adoption of digital technologies, including artificial intelligence, machine learning, and data analytics, is revolutionizing how companies explore, extract, and manage resources. High-quality spatial data is fundamental to these advancements, enabling precise modeling, analysis, and decision-making.

**ENVIRONMENTAL RESPONSIBILITY** Growing public and regulatory pressure is pushing companies to adopt sustainable practices and reduce their carbon footprint. Accurate spatial data plays a crucial role in environmental assessments, impact mitigation, and monitoring compliance with stringent regulations.

**SUSTAINABILITY AND DECARBONIZATION** The global push for reduced emissions and cleaner energy is transforming the oil and gas industry. Companies are investing in renewables, carbon capture, and cleaner production. Spatial data is critical for identifying renewable energy sites and optimizing infrastructure.

**ALTALIS EMPOWERS OIL AND GAS COMPANIES  
WITH HIGH-QUALITY SPATIAL DATA**

In this evolving landscape, Altalis empowers oil and gas companies with comprehensive and accurate spatial data that addresses these critical trends and challenges.

**CADASTRAL & TITLE MAPPING** Aligning the registered survey **Cadastral** plans and extent of ownership **Title** polygons ensure precise boundary determination for properties and right-of-ways. This is essential for managing property access rights, emergency response planning and infrastructure development projects.

**LIDAR 7.5 DIGITAL ELEVATION MODEL (DEM)** Altalis' high-resolution DEMs offer precise elevation data crucial for environmental assessments, flood risk analysis, and infrastructure planning. This data enhances the site selection process, supports efficient pipeline routing, and helps in making informed decisions to minimize environmental impact.

**DISPOSITION MAPPING (DIDS+)** Altalis offers detailed **Disposition** mapping data, providing valuable insights into leases, regulatory requirements and who is operating on the land. This information streamlines permitting processes, facilitates land-use planning, and ensures compliance with complex regulatory frameworks.



## PARTNERING WITH ALTALIS: A DATA-DRIVEN ADVANTAGE

By partnering with Altalis, oil and gas companies gain a data-driven advantage through:

**ENHANCED EXPLORATION EFFICIENCY** Accurate spatial data reduces exploration risks and optimizes resource identification.

**REGULATORY COMPLIANCE** High-quality datasets facilitate compliance with environmental regulations and reporting requirements.

**ENVIRONMENTAL MANAGEMENT** Comprehensive spatial data enables informed decision-making for minimizing environmental impact.

**INFRASTRUCTURE PLANNING** Precise terrain models and GIS-ready datasets enhance the accuracy and efficiency of infrastructure planning.

**STREAMLINED PROJECT APPROVALS** Accurate **Cadastral** mapping and land disposition data expedite permitting processes.

**RISK MANAGEMENT** Detailed spatial data enables early identification and mitigation of environmental and operational risks.

**COST SAVINGS AND OPERATIONAL EFFICIENCY** Data-driven insights optimize resource allocation and reduce operational costs.



## ALTALIS: YOUR TRUSTED SOURCE FOR SPATIAL DATA

As the oil and gas industry navigates the complexities of a changing world, Altalis stands ready to empower companies with the spatial data intelligence needed to thrive. Our commitment to accuracy, comprehensiveness, and client success makes us the ideal partner for achieving your operational and sustainability goals.


## ABOUT ALTALIS

Established in 1998, we have been the **authoritative source of spatial data and imagery in Alberta for over 25 years**. We are the leading data management, maintenance, and distribution company in Alberta, and ensure the continued updating, re-engineering, storage, distribution, value-added redistribution, and general management of primary provincial mapping datasets. Our goal is to **make mapping products more available, accessible, accurate, and affordable**. We are your trusted source of spatial data.

Our state-of-the-art webstore, Altalis.com, is powered by AWS enabling reliable, fast and secure data deliveries. **Customers can explore, view, and acquire spatial data products both paid and open data with the click of a button.**

We take pride in providing exceptional customer service and building long-term relationships with our clients. Our experienced customer service team is available to answer any questions you may have about finding the right data to meet your needs.

**Contact Altalis today** to learn more about how our comprehensive data can help your organization.

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