



Geospatial Data for Pipeline Success

The Lifeline of Alberta's Energy

THE MIDSTREAM PIPELINE

INDUSTRY in Alberta is a critical component of the energy sector, transporting essential resources like oil, gas, chemicals, and raw materials across vast networks. These pipelines form the backbone of the province's energy infrastructure, connecting extraction sites to refineries and markets, ensuring supply chain continuity, and bolstering economic stability.

However, the industry contends with significant challenges, including:

NAVIGATING COMPLEX REGULATORY FRAMEWORKS

UPHOLDING ENVIRONMENTAL STEWARDSHIP

MAINTAINING RIGOROUS EMERGENCY RESPONSE PROTOCOLS

NAVIGATING PIPELINE CHALLENGES: ALTALIS DATA DELIVERS PRECISION AND INSIGHT

STRATEGIC PIPELINE ROUTING Altalis' geospatial data enables precise pipeline routing by analyzing terrain, land use, and ecological sensitivity. This ensures minimal environmental impact, regulatory compliance, and consideration for existing infrastructure and sensitive habitats.

EMERGENCY PREPAREDNESS Up-to-date geospatial data empowers rapid decision-making and hazard mitigation during emergencies. Overland spill modelling predicts the path and impact of spills, while GIS enhances the visualization of critical infrastructure and evacuation routes.

PIPELINE INTEGRITY Geospatial technologies continuously monitor pipeline conditions, identifying potential threats like ground movement or corrosion. This proactive approach facilitates timely maintenance, reducing the risk of incidents. Additionally, the mapping and tracking of Pipeline Inspection Gadgets (PIGs) enable targeted maintenance activities, and base feature layers aid in planning efficient access routes.

ADAPTING TO REGULATORY CHANGES Geospatial data supports regulatory compliance by providing accurate spatial data for reporting, land-use planning, and environmental assessments. Real-time updates and historical analysis enable operators to adapt to evolving requirements.

DATA-DRIVEN PIPELINE MANAGEMENT: HOW ALTALIS PRODUCTS OPTIMIZE OPERATIONS

ENHANCED TITLE MAPPING (ETM) provides detailed attributes such as land parcel owner names, addresses, and registration dates. This information is critical for communicating with landowners during emergencies, complying with regulatory requirements, and implementing effective land management. By providing accurate boundary information along pipeline routes and facilitating land acquisition, **ETM** supports regulatory compliance and ensures transparency in land management.

CADASTRAL MAPPING defines the location of survey plans registered with Alberta Land Titles and integrates new plans daily. It enhances pipeline routing by providing detailed information on property boundaries and right-of-ways, enabling operators to negotiate access rights, plan construction, and comply with land use regulations. This ensures efficient pipeline routing while minimizing disruptions to local communities and ecosystems.

GDM PIPELINE DATA provides detailed information on critical pipeline infrastructure. From pipeline specifications and ownership details to regulatory approvals and historical data, these datasets empower professionals to make informed decisions regarding planning, maintenance, risk assessment, and compliance.



LIDAR 7.5 DIGITAL ELEVATION MODEL (DEM) provides high-resolution terrain models, accurately displaying elevation data. This data supports environmental assessments and emergency response planning by delivering detailed terrain information. It aids in overland spill modelling, assessing slope stability, and identifying suitable routes that minimize environmental impact. This ensures that pipeline routes are carefully planned to avoid sensitive areas and maintain ecological balance.

BASE FEATURES include essential infrastructure data such as hydrography and transportation networks, supporting comprehensive infrastructure planning. This data facilitates efficient pipeline routing and maintenance operations by providing insights into terrain characteristics, water bodies, and transportation corridors, optimizing route selection, and emergency response planning. This data also enhances safety by ensuring maintenance crews can access pipeline locations safely and efficiently.

PARTNERING WITH ALTALIS: THE GEOSPATIAL ADVANTAGE FOR PIPELINE SUCCESS

Altalis' geospatial data solutions offer pipeline companies multiple benefits:

OPTIMIZE PIPELINE ROUTING Altalis data enables pipeline companies to identify the most efficient and cost-effective routes while minimizing environmental impacts and land-use conflicts.

ENHANCE SAFETY AND INTEGRITY Integrating Altalis data into pipeline operations leads to more effective risk assessments, inspections, and maintenance planning. This translates to improved safety, reduced risk of incidents, and better protection of our environment.

STREAMLINE REGULATORY COMPLIANCE Altalis data helps pipeline operators meet regulatory requirements by providing accurate information on land ownership, environmental constraints, and permitting requirements.

MITIGATE RISKS AND ENSURE PROJECT SUCCESS Altalis data helps identify and mitigate potential risks associated with pipeline projects, such as environmental hazards, land-use conflicts, and regulatory changes.

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

ALTALIS: YOUR TRUSTED SOURCE FOR SPATIAL DATA INSIGHTS

Partnering with Altalis ensures that pipeline companies have access to accurate geospatial data tailored to their unique operational challenges, enabling them to effectively achieve sustainable growth and environmental stewardship 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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