



Thriving In Alberta's Forests, How Altalis Geospatial Data Empowers The Forestry Industry

ALBERTA'S BOREAL FOREST is a vast and valuable resource, covering over 60% of the province. The forestry industry plays a vital role in Alberta's economy, supporting jobs, communities, and sustainable resource management.

Operating within this dynamic landscape presents unique challenges that demand innovative solutions. **Altalis, Alberta's trusted source for geospatial data**, empowers forestry companies with the critical information needed to

NAVIGATE CHALLENGES

OPTIMIZE OPERATIONS

CONTRIBUTE TO A THRIVING
AND SUSTAINABLE FORESTRY
SECTOR

NAVIGATING THE COMPLEXITIES: KEY CHALLENGES FACING THE ALBERTA FORESTRY INDUSTRY

The Alberta forestry industry faces a web of challenges that require careful planning and informed decision-making:

COMPLEX LAND OWNERSHIP Alberta's forest lands are a patchwork of ownership, including public lands (provincial and federal), private lands, and Indigenous lands. This intricate ownership structure necessitates due diligence and often involves complex processes with various stakeholders to secure access for timber harvesting and forest management activities.

STRINGENT ENVIRONMENTAL REGULATIONS Protecting Alberta's biodiversity and ecological integrity is paramount. Forestry operations must adhere to various environmental regulations for wildlife habitat protection, watercourse management, and minimizing impacts on sensitive ecosystems. Staying informed about evolving regulations and ensuring compliance can be a demanding task.

SUSTAINABLE FOREST MANAGEMENT Balancing economic needs with long-term forest health requires careful planning and precise execution. Forestry companies must accurately assess forest resources, plan sustainable harvest strategies, and monitor the effectiveness of reforestation efforts to ensure the industry's long-term viability.

OPERATIONAL EFFICIENCY AND SAFETY Operating on a vast landscape with challenging terrain and unpredictable weather conditions can create logistical hurdles for forestry operations. Optimizing harvesting operations, ensuring worker safety, and efficiently transporting timber from remote locations require strategic planning and access to reliable spatial information.

WILDFIRE RISK MITIGATION Minimizing wildfire risk requires accurate information on terrain, fuel sources, and potential fire spread patterns to support effective prevention and response strategies. Compounding this challenge is the increasingly unpredictable nature of wildfire behavior due to climate change, demanding even more precise and timely data.



ALTALIS GEOSPATIAL DATA PRODUCTS: EMPOWERING FORESTRY BUSINESSES

Altalis offers a comprehensive suite of geospatial data products that address the forestry industry's challenges. Examples of these products and their application in the industry include:

CADASTRAL MAPPING defines the mapping of survey plan information, including dispositions, blocks, right-of-ways, etc. It can apply to activities such as land acquisition, timber license management, site planning, identifying access routes, identifying potential easements or right-of-way issues.

TITLE defines property boundaries and ownership information, including Land Titles Office LINC numbers (Land Identification Numeric Code). This data is critical for due diligence activities such as verifying land rights, resolving ownership disputes, and supporting land acquisition negotiations.

DISPOSITIONS data shows surface activity extents with detailed attributes for leases and permits on Crown land. This data can be used to identify active forestry operations, understand land-use restrictions, avoid conflicts with other land users, and plan new forestry activities.

LIDAR 7.5 DEM is a high-resolution **Digital Elevation Model** data product that can be used for terrain analysis, watershed modelling, road planning, optimizing harvest block layouts and assessing site accessibility.

INFRASTRUCTURE MAPPING provides the location of roads, pipelines, power lines, and other infrastructure. This data enables planning access routes, identifying potential conflicts with existing infrastructure, and assessing potential impacts of forestry operations on infrastructure.


BASE FEATURES provide a comprehensive dataset of landscape features, including roads, water bodies, administrative boundaries, and elevation. This foundational data facilitates spatial analysis, mapping, planning, and decision-making for forestry operations. It is used to overlay other datasets for deeper analysis.

DAILY UPDATE SERVICE Altalis offers real-time GIS updates, which provide organizations with up-to-date **Cadastral, Title, and Disposition** geospatial data that integrates seamlessly with operational systems. By leveraging real-time data integration solutions, forestry companies can optimize resource allocation and enhance service delivery.

CUSTOMER SERVICE Altalis offers more than just data products; it provides opportunities that can help forestry businesses thrive. Altalis is committed to building long-term client relationships and providing exceptional customer service. Its experienced team can assist with data selection, purchasing support, and integration, ensuring businesses have the information they need to succeed.



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

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PARTNERING WITH ALTALIS: DRIVING SUCCESS IN THE FORESTRY INDUSTRY

Partnering with Altalis provides forestry companies with a distinct advantage in navigating the complexities of Alberta's forest industry:

CLEAR LAND OWNERSHIP AND STRATEGIC PLANNING

Altalis data provides accurate land ownership identification, ensuring compliance and timely stakeholder engagement, which informs strategic planning and mitigates potential conflicts with other industries.



ENVIRONMENTAL STEWARDSHIP Altalis data supports responsible forestry practices by providing critical information on wildlife habitats and water resources. By leveraging detailed terrain and habitat information, companies can optimize operational planning, minimize disturbance to sensitive ecosystems, and ensure compliance with stringent environmental regulations.

STRENGTHEN SUSTAINABILITY Altalis data facilitates data-driven decisions for sustainable forestry practices. Leveraging high-resolution data, forestry companies can optimize reforestation efforts, monitor forest health, and track the effectiveness of sustainable management strategies. This ensures the long-term viability of Alberta's forests and contributes to responsible resource stewardship.

ENHANCE OPERATIONAL EFFICIENCY Altalis data enables efficient planning and execution of forestry operations, from road building and harvest block layout to timber transportation and reforestation efforts. This optimizes productivity, reduces costs, and enhances worker safety. Access to infrastructure data allows for strategic planning of transportation routes and minimizes potential disruptions to operations.

MITIGATE WILDFIRE RISK By integrating Altalis data with their operational data and real-time fire information, forestry companies can make informed decisions to mitigate wildfire risks, protect valuable resources, and ensure the safety of their personnel.

By leveraging Altalis geospatial data, forestry professionals will gain critical insights to optimize operations and drive success across the industry.


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.

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