Data-Driven Decisions For Government Land Management In Alberta

THE ALBERTA PROVINCIAL AND FEDERAL GOVERNMENTS manage vast amounts of land, encompassing diverse landscapes and serving many purposes. From national parks and forests to resource development areas and transportation corridors, these lands play an important role in Alberta's economy, environment, and social well-being. Effective management of these lands requires accurate, up-to-date geospatial data to support informed decision-making and sustainable practices.

Altalis, Alberta's leading provider of geospatial data, empowers government agencies with critical information on land ownership, terrain and environmental features. This data fuels informed decision-making, optimizes land-use planning, and streamlines regulatory compliance. By partnering with Altalis, government agencies can enhance operational efficiency, improve resource management, and ensure the long-term sustainability of Alberta's land resources.

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NAVIGATING THE COMPLEXITIES: KEY CHALLENGES FACING GOVERNMENT LAND MANAGEMENT

BALANCING COMPETING LAND USES Reconciling the needs of various stakeholders, including industry, Indigenous communities, and the public, requires careful planning and negotiation. This can involve complex consultations, impact assessments, and land-use planning processes to ensure that land-use decisions are made in a fair and sustainable manner.

PROTECTING THE ENVIRONMENT It is vital for ecological integrity to manage land in a way that conserves biodiversity, protects critical habitat, and minimizes environmental impacts. This requires detailed information on species distributions, ecosystem types, and potential environmental sensitivities, along with tools to assess and mitigate potential impacts of land use activities.

ENSURING PUBLIC SAFETY Managing hazards such as wildfires, floods, and landslides requires accurate data and effective mitigation strategies. This includes access to real-time information on terrain characteristics and infrastructure locations to support risk assessment and emergency response planning.

ADDRESSING CLIMATE CHANGE Adapting to climate change impacts and mitigating greenhouse gas emissions demands innovative land management practices. This involves understanding the vulnerability of different land areas to climate change impacts and identifying opportunities for carbon sequestration and renewable energy development.

MAINTAINING ACCURATE LAND RECORDS Keeping track of land ownership, tenure, and use rights is essential for efficient land administration. This requires reliable data management systems and up-to-date cadastral and title information to support land transactions and legal processes.

Effective management of these lands requires accurate, up-to-date geospatial data to support informed decision-making and sustainable practices.

ALTALIS GEOSPATIAL DATA PRODUCTS: EMPOWERING GOVERNMENT LAND MANAGEMENT

Altalis is Alberta's trusted source of spatial data, providing a comprehensive suite of geospatial data products that can be instrumental in effective government land management. These products include:

CADASTRAL MAPPING defines the mapping of survey plans, including lots, blocks, and right-of-ways. It can be used for land administration, resource management, infrastructure planning, identifying land for public use and resolving land disputes.

TITLE/ENHANCED TITLE MAPPING defines property boundaries and ownership information, including Land Titles Office LINC numbers (Land Identification Numeric Code). This data is critical for due diligence and land rights verification.

DISPOSITIONS data show surface activity extents for leases and permits on Crown land. This data can be used for identifying potential project sites, understanding land use restrictions, avoiding conflicts with existing land uses and managing natural resources.

LIDAR 7.5 DEM is a high-resolution **Digital Elevation Model** data product that can be used for terrain modelling, watershed analysis, wildfire risk assessment, infrastructure planning and habitat mapping.

From national parks and forests to resource development areas and transportation corridors, these lands play an important role in Alberta's economy, environment, and social well-being.

IMAGERY provides high-resolution imagery that can be used for visualizing land cover, monitoring changes in land use, assessing environmental impacts and supporting emergency response.

DAILY UPDATE SERVICE Altalis offers real-time GIS updates, providing government agencies with the most current **Cadastral**, **Title**, and **Disposition** geospatial data. This allows for real-time integration with internal systems, enhancing efficiency and accuracy in daily operations such as permit processing, development approvals, and land management.

CUSTOMER SERVICE Altalis offers more than just data products; it provides opportunities that can help streamline information, improving government departments' efficiency. 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 government agencies and departments 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 GOVERNMENT LAND MANAGEMENT

Partnering with Altalis offers numerous benefits for government agencies:

IMPROVED LAND ADMINISTRATION Altalis data helps agencies accurately track land ownership, tenure, and use rights, as well as resolve land disputes more effectively, improving efficiency and reducing costs.

ENHANCED ENVIRONMENTAL PROTECTION Altalis data supports informed decision-making for conservation and resource management, helping to protect Alberta's natural heritage. This includes identifying and mapping critical habitats, assessing the impacts of development proposals, and monitoring changes in land cover and ecosystem health.

OPTIMIZED INFRASTRUCTURE PLANNING Altalis data enables agencies to plan and construct infrastructure that minimizes environmental impacts and maximizes public benefits. This involves analyzing terrain conditions, identifying suitable corridors for roads and pipelines, and assessing potential risks to infrastructure from natural hazards.

INCREASED PUBLIC SAFETY Altalis data helps agencies assess and manage hazards, improving public safety and emergency response. This includes mapping areas prone to wildfires, floods, and landslides and providing real-time information to support evacuation planning and emergency response efforts.

EFFECTIVE CLIMATE CHANGE ADAPTATION Altalis data supports agencies in understanding and adapting to the impacts of climate change. This includes modelling the potential impacts of climate change on land use, water resources, and infrastructure and developing strategies for mitigation and adaptation.

By leveraging Altalis geospatial data, government agencies can improve land management practices, optimize resource allocation, and ensure the long-term sustainability of Alberta's land resources.

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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