altalis

Product Catalogue

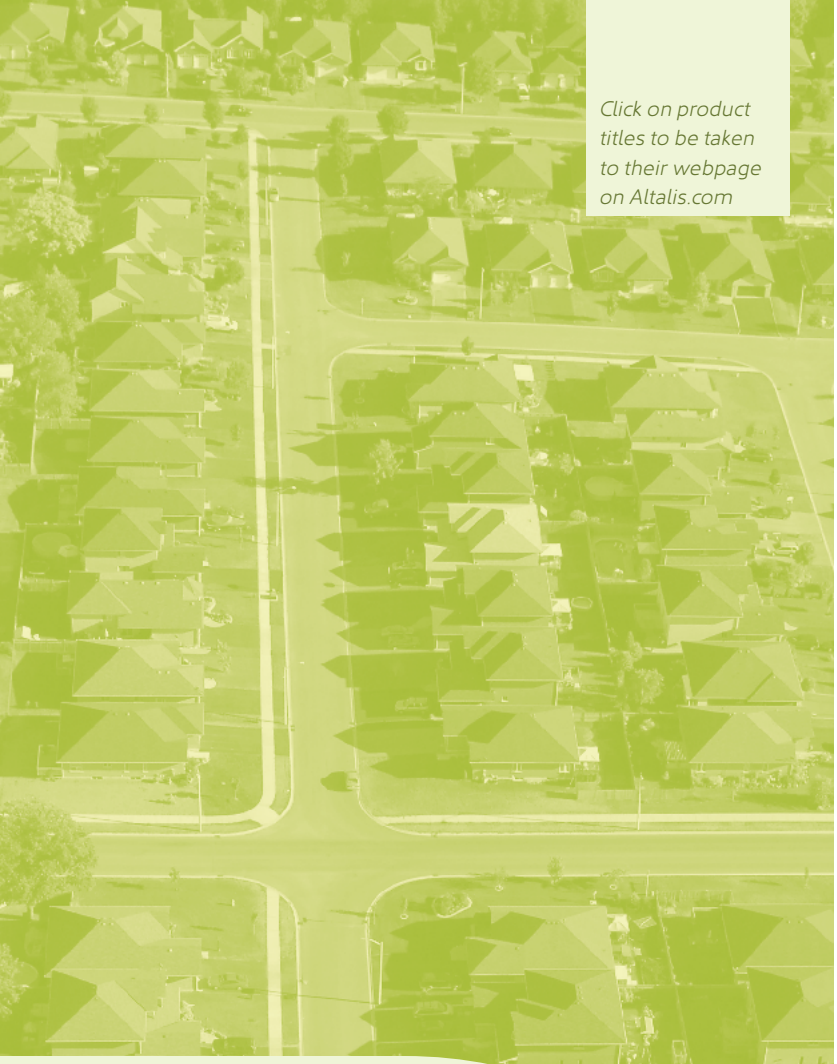
We are your trusted source of spatial data.

Established in 1998, we have been the authoritative source of spatial data and imagery in Alberta for over 25 years.

Altalis has a joint venture agreement with Alberta Data Partnerships Ltd. (ADP) and is responsible for the day-to-day management and distribution of the digital data sets they manage. As the agent for ADP, we are responsible for making mapping products available, accessible, accurate and affordable. 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 webstore, Altalis.com, enables customers to 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 are available to answer any questions you may have about finding the right data to meet your needs.

Contents



Click on product titles to be taken to their webpage on Altalis.com

Property

PRODUCTS

Altalis is the authoritative source for property mapping in Alberta. In a joint venture with Alberta Data Partnerships (ADP), Altalis is responsible for the maintenance, licensing and distribution of these spatially referenced datasets on behalf of the Government of Alberta, who hold copyright to the data.

Altalis property datasets are the common base used by Government and Industry, saving land users time, resources and redundancy. Altalis cost effective subscriptions and update API's allow for unlimited use and access to current, accurate, complete and consistent data.

Cadastral Mapping

Cadastral mapping defines the location of survey plans registered with Alberta Land Titles. This includes block lines, lot lines, lot numbers, road limits, right-of-way limits, metes and bounds, plan numbers, dimensions and other information found on plans of survey.

As new registered survey plans are approved at Alberta Land Titles, they are integrated into the cadastral fabric daily. Cadastral and Title mapping are maintained in sync with each other, and a bundle discount is applied when purchased together.

Bundle Discount

Title Mapping

Title mapping defines the extent of ownership for each parcel, as indicated on the Certificates of Title registered at Alberta Land Titles, and the LINC number (descriptor) for each title. This includes all "titled" property (freehold land), Crown and unpatented lands.

Both the Title polygons and LINC attributes are updated daily. This fully GIS dataset is available in both SHP and GDB formats and multiple projections. The Title and Cadastral mapping datasets are maintained in sync with each other and a bundle discount applies when purchased together.

Bundle Discount

Municipal Boundary File

The Municipal Boundary File is a spatial representation of the official boundaries for Alberta's Counties, MD's, Special Areas, Improvement Districts, Urban Service Areas, Cities, Towns, Villages, Summer Villages and Hamlet points as approved by Alberta Municipal Affairs.

Boundary updates are prompted by Government Order in Council (OIC) approvals such as annexations, municipal name changes and Hamlet dissolutions. New geometry and labels are integrated into the cadastral fabric and then extracted and bundled for monthly distribution.

Open Data License

Enhanced Title Mapping

Enhanced Title Mapping (ETM) is an integrated provincial spatial dataset which includes the geometry that represents the extent of each land title parcel, with an associated database containing front of title information from the current Certificates of Title registered at Alberta Land Titles. Attributes include owner names, addresses, estate held, registration date, short/long legal, and more. Title polygons and ETM attributes are updated on a daily basis.

This is a restricted product licensed directly with Utility, Pipeline, Municipalities, organizations requiring emergency response plans to operate in Alberta and their service providers. Uses include stakeholder engagement, landowner consultation & ERP planning.

Bundle Discount

Alberta Township System (ATS)

In March of 2005, the Government of Alberta created a 'frozen' version of the Alberta Township System (ATS) Coordinates and labelled it V4.1. This version, which is based on three governing points per section, is the current ATS file used for geo-referencing digital plan submissions made to the Provincial Government. The ATS V4.1 Polygons dataset includes Legal Subdivisions (LSD), quarter section, section, each with statutory road allowances and township polygons.

The Alberta Township System (ATS) Coordinate File is an ASCII data file containing geographical coordinates (latitude and longitude in degrees and decimals thereof) for every governing quarter section corner in the province of Alberta.

Open Data License

Dispositions

DIGITAL INTEGRATED DISPOSITIONS (DIDS)

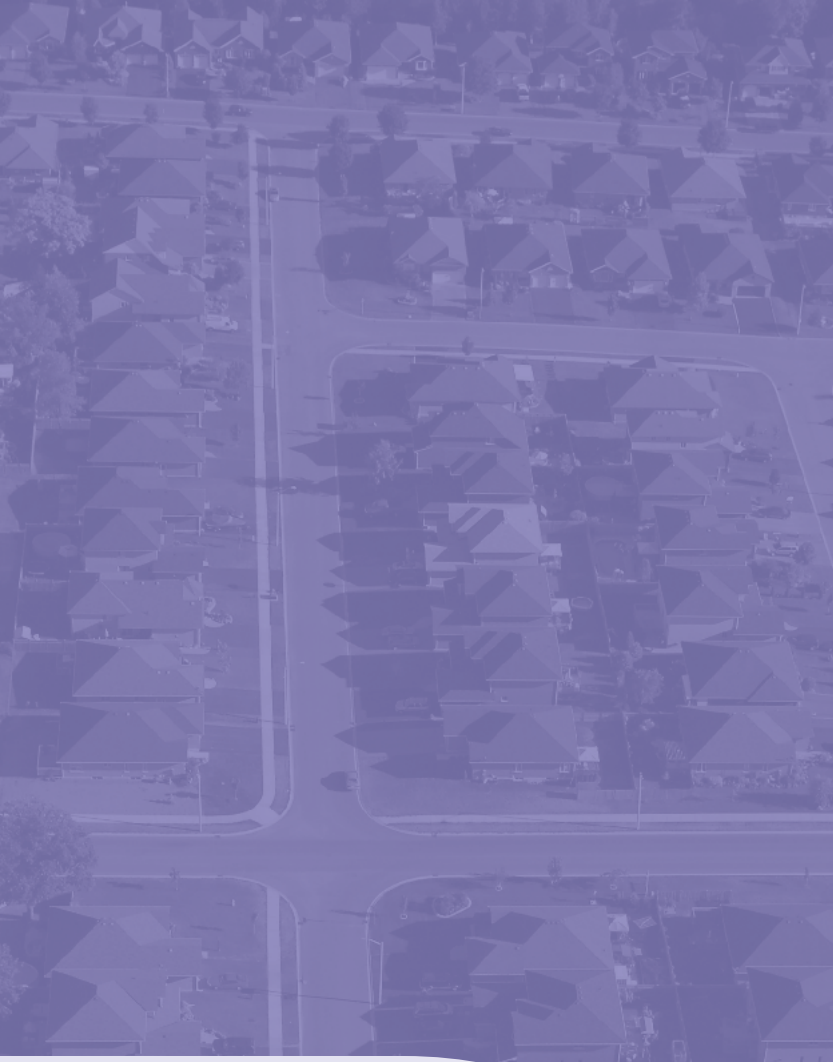
A geospatial mapping product that maintains surface activity extents on Crown land within the Province of Alberta. DIDs is a spatial inventory of all active dispositions and is updated daily with new applications, amendments, renewals and cancellations as approved by Public Lands. Examples: LOC, MSL, EZE, PLA, GRP, etc.

DIDS+

An enhanced disposition mapping product which combines an extended set of attributes for active dispositions, including primary client and address information from Alberta Energy's Land Standing Reports, with the graphical mapping representation of DIDs.

DIDs & DIDs+ datasets are updated daily and typically reflect changes made by Public Lands the previous business day.

For-Fee License



Base
PRODUCTS

Altalis Base Mapping products, often referred to as base layers, are fundamental building blocks for creating maps, conducting spatial analysis, and providing geographical context to the map and other data layers above it. These highly accurate, spatially referenced, and detailed layers cover the province of Alberta.

Alberta Environment and Protected Areas (EPA) invests significant resources in updating the Base Feature Topographic series and Small-Scale datasets. Altalis makes this valuable data available to industry and the public under the Alberta Open Data License.

Base Features

This comprehensive GIS-ready dataset, compiled and maintained by Alberta Environment and Protected Areas (EPA) since 1996, provides a highly detailed and accurate representation of Alberta's topography. It was created using various sources, including 1:20,000 and 1:50,000 scale topographic maps, aerial imagery (AVI), infrared satellite imagery (IRS) and updated on a regular basis.

Base Features includes over 70 layers of information, organized into 5 major themes: Access (roads, cut lines, trails, railroads etc.), Hydrography (water features), Geo-Administrative Areas (boundaries), Alberta Township System (ATS), and Contour Linework (elevation).

ACCESS

Access refers to the location and nature of features used to gain vehicular, non-vehicular and/or pedestrian access to land and resource dispositions related to surface activities in Alberta. The Base Features Access and Facility layer includes primary and secondary roads, railways, airstrips, powerlines, seismic lines (used for oil and gas exploration), cutlines (cleared paths through forests), trails, and facilities such as power stations, oil and gas plants, sand and gravel pits and more.

HYDROGRAPHY

Base Features hydrography maps the extent and types of water bodies and watercourses (rivers, streams, etc.) across Alberta. Created in the mid-1990s, this dataset includes waterbody polygons (lakes, ponds, rivers, ect), point events (specific locations of interest like springs or waterfalls), a connected network of single-line representations of rivers and waterways, and indicators of flow direction.

In 2019, EPA released their first delivery of a Base Hydrography Update layer. Starting in their priority area of southern Alberta, new areas are released annually, and this layer will eventually replace the existing provincial hydrography dataset.

ALBERTA TOWNSHIP SYSTEM

The Base Feature ATS layer represents the location of Quarter Sections and adjacent Road Allowance Segment polygons in Alberta and is derived from the March 2005 'frozen' 4.1 version of the Master Alberta Township System points file, clipped to the Alberta provincial boundary.

Open Data License

CONTOUR LINEWORK

Base Feature Contour layer provides 2D linework in 10m (20m in mountainous regions) contour intervals, consisting of arcs and index annotation, all combined to create a seamless cartographic representation of Alberta's topography. The dataset was created from aerial photography during the late 80's and early 90's.

Open Data License

GEO-ADMINISTRATIVE AREAS

Geo-Administrative land areas have explicitly defined boundaries established by legislation or by an agency to manage or administer land use in the province. These boundaries are maintained by EPA (Environment and Protected Areas) on behalf of the Government ministry responsible for the boundary and deliver on average 2-3 updated layers a month to Altalis for distribution.

Open Data License

Scroll for a list of GeoAdmin Layers ↓

The following is a list of the 55 layers included in the Base Features GeoAdmin bundle:

- Alberta Provincial Boundary ATS V4.1
- Alberta Transportation District
- Alberta Transportation Region
- City
- Community & Social Services Delivery Regions
- DND Air Weapons Range
- DND Military Base
- Eastern Slopes Land Use Zoning
- Exploration Restricted Area
- Fire Control Zone
- Fish and Wildlife District
- Fish and Wildlife Stewardship Regional Boundaries
- Fish Management Zone
- Forest Management Agreement Area
- Forest Management Unit
- Forest Protection Area
- Green / White Area
- Green / White Area Historical
- Hamlet, Locality and Townsite (Culture Points)
- Hamlet Boundaries
- Improvement District
- Indian Reserve
- Integrated Resource Plan - Local
- Integrated Resource Plan – Sub-Regional
- Land-Use Framework Planning Regions
- Metis Settlement
- Municipal District & County
- Natural Resources Conservation Board Service Area
- Non-Permit Area
- Northern Alberta Development Council (NADC) Area
- NTS Grid 1:20 000
- NTS Grid 1:50 000
- NTS Grid 1:250 000
- Parks and Protected Areas in Alberta
- Provincial Electoral Division – Historical 2003
- Provincial Electoral Division – Historical 2010
- Provincial Electoral Division – Current 2019
- Provincial Sanctuary - Corridor Wildlife
- Public Land Recreation Area
- Public Land Use Zone
- Registered Fur Management Area (Trapper)
- Regulatory Assurance Division District Boundaries
- Regulatory Assurance Division Region Boundaries
- Resource Management Area
- Rocky Mountains Forest Reserve
- Settlement
- Special Area
- Special Hunting License Draw Alberta
- Specialized Municipality
- Summer Village
- Town
- Treaty Boundary
- Urban Service Area
- Village
- Wildlife Management Unit

1:20 000 Historic Base

The 1:20,000 Historic Base series is a digital representation of Alberta's landscape, depicting both natural and human-made features. Created in the early 1980s, this cartographic dataset served as a foundational resource for the development of the more comprehensive Base Features GIS dataset and is no longer updated.

The 5 topographic features include: Transportation, Hydrography, GeoAdmin Boundaries, Alberta Township System (ATS) and Contours.

Open Data License

Small Scale

These maps provide a broad overview of large geographic areas, sacrificing some detail for a wider perspective. The term "small scale" refers to the ratio between distances on the map and the corresponding distances in the real world. Small-scale maps are often used by cartographers to create printed wall maps and are ideal for visualizing regional patterns and relationships.

Altalis offers three key small-scale base maps maintained by Alberta Environment and Protected Areas (EPA): 1:250,000 Base, 1:1 Million Base, and 1:2 Million Base. Each of these datasets include 4 topographic themes covering the province of Alberta: Transportation, Hydrography, GeoAdmin Boundaries, and the Alberta Township System (ATS).

1:250 000 BASE

This provincial dataset consists of 50 individual files, each tiled by the National Topographic System (NTS) grid, which is a standard reference system for mapping in Canada.

These CAD drawing files are often customized to produce a regional map of basic topographic features like roads, railroads, lakes, rivers, municipal locations, and more. They create general purpose, color digital raster maps, often printed as hard copy wall maps.

Open Data License

1:1 MILLION BASE

Provides quality linework to create cartographic maps as an overview of Alberta at a scale of 1:1 million, where 1 unit on the map represents 1 million units on the ground. Layers include the Alberta Township System (ATS) township grid, major water features, municipalities, major roads and railways, and selected administrative areas like National parks and reserves.

Additional Base Feature layers, such as municipal boundaries, forest management areas, trapper boundaries, and green and white areas (designating public and private lands), can be seamlessly overlaid on these base maps to create customized wall maps specific to your interest.

Open Data License

1:2 MILLION BASE

Used to create printable, cartographic-quality maps to show a broad overview of Alberta at a scale of 1:2 million, where 1 unit on the map represents 2 million units on the ground. It is a simplified version of the 1:1 Million Base map, highlighting major features such as major roads, water bodies, Alberta township grid, major roads, and select administrative areas.

Open Data License

Terrain
PRODUCTS

Altalis terrain products use spatial ground elevation values to generate 3D surface models of the Earth's terrain, known as Digital Elevation Models (DEMs). These DEMs are a representation of the bare earth's topographic surface, excluding features like trees, buildings, and other surface objects.

DEMs produced using LiDAR (Light Detection and Ranging) technology offer exceptionally high vertical accuracy. This precise measurement of elevation enhances the quality and clarity of landforms, hydrological features as well as for defining sub-catchment boundaries (basins and watersheds) and drainage networks.

LiDAR 7.5 DEM

LiDAR 7.5 DEM offers the best high-quality, high-resolution 1m LiDAR point cloud derivative available to industry. This high accuracy DEM is created with LiDAR technology, using the point cloud collected for a 1m DEM and resampled to a post spacing every 7.5m. Horizontal accuracy is 35 cm, fundamental vertical accuracy (on hard flat surfaces) is 20 cm.

LiDAR 7.5 DEM offers four times the point density resolution when compared to LiDAR15 DEM. Sold by the township (6 miles X 6 miles), this product offers a highly cost-effective alternative to 1m LiDAR when covering large project areas.

Volume Discount

LiDAR15 DEM

LiDAR15 DEM is a high-accuracy, high-resolution digital elevation model derived from 1m LiDAR point cloud data. This versatile LiDAR product is created by processing the original 1m data into a 15m grid spacing, resulting in bare earth XYZ coordinates in ASCII format.

Sold in convenient township units (6 miles X 6miles), LiDAR15 DEM is an excellent choice for generating detailed 3D models over large areas. Its applications span water flow modeling, 3D visualizations, line-of-sight, surface analysis, orthoimage rectification, and more.

Volume Discount

LiDAR

As a partner and proud reseller of Airborne Imaging and Hexagon products, we deliver the highest quality, most precise Light Detection and Ranging (LiDAR) data available for Alberta and parts of BC & Saskatchewan. LiDAR is based on a scanning laser combined with both GPS and inertial technology to create a three-dimensional set of points (point cloud).

Our 3D LiDAR models enable precise identification, monitoring, and analysis of pipelines, geohazards, erosion patterns, flood zones, and vegetation changes, supporting incident detection, land surveys, and informed land management decisions and other activities across all industry sectors.

AIRBORNE LIDAR

Airborne LiDAR offers the most extensive and current library of precise, accurate and high-density bare earth LiDAR data available in Alberta and Western Canada. A custom area of interest (AOI) delivery of Airborne bare earth LiDAR data will include 1m Grids, Hillshade Images and Point Cloud data with the horizontal accuracy of 35 cm and fundamental vertical accuracy on hard flat surfaces of 20 cm.

For-Fee License

HEXAGON LIDAR

Altalis offers access to over 400,000 square kilometres of full and bare earth LiDAR data for parts of BC, Alberta and Saskatchewan through Hexagon's HXDR Imagery Store. This library offers 2m resolution LiDAR with a vertical accuracy of 30cm, horizontal accuracy of 50cm and vintages ranging from 2003 – 2011. Sign in to the HxDR store through Altalis, select your project AOI (area of interest) and receive the delivery within minutes.

For-Fee License

Provincial DEM

The Provincial DEM series was flown and compiled by EPA (Environment and Protected Areas) using 1:60 000 scale air photography captured between 1980-1995. With a horizonal accuracy of 100m and vertical accuracy of 5-10m, the Provincial DEM is frequently used to create 3D relief representations of Alberta's terrain.

These 1:20 000 DEM ASCII mass points, soft and hard break lines were further processed to create 5 seamless Provincial Digital Elevation Model datasets: 25m Hillshade, 25m Raster DEM, 100m Hillshade, 100m Raster DEM, and the Alberta Provincial Terrain.

1:20 000 DEM

The 20K DEM product consists of 2600+ individual ASCII map sheets that cover Alberta and are made up of three-dimensional spatial ground elevation mass points, hard break lines to define cliffs, ridges, peaks, and bodies of standing water, and soft break lines to define other hydrographic features.

Open Data License

25M HILLSHADE

The Alberta Provincial 25m Hillshade is a GIS raster format dataset that represents the provincial land surface as grayscale shaded relief. It has been derived from the Alberta Provincial 25m Raster and can be displayed as an image service or used as background for the visualization of other vector data.

Open Data License

100M HILLSHADE

The Alberta Provincial 100m Hillshade is a GIS raster format dataset that represents the provincial land surface as grayscale shaded relief. It has been derived from the Alberta Provincial 100m Raster and can be delivered as an image service. It is intended for display purposes only and is often used as background for the visualization of other data.

Open Data License

25M RASTER DEM

The Alberta Provincial 25m Raster is an ArcGIS raster dataset that was created from the Alberta Provincial Terrain. Cells are 25m by 25m and the value assigned to each cell is elevation in metres above sea level.

Open Data License

100M RASTER DEM

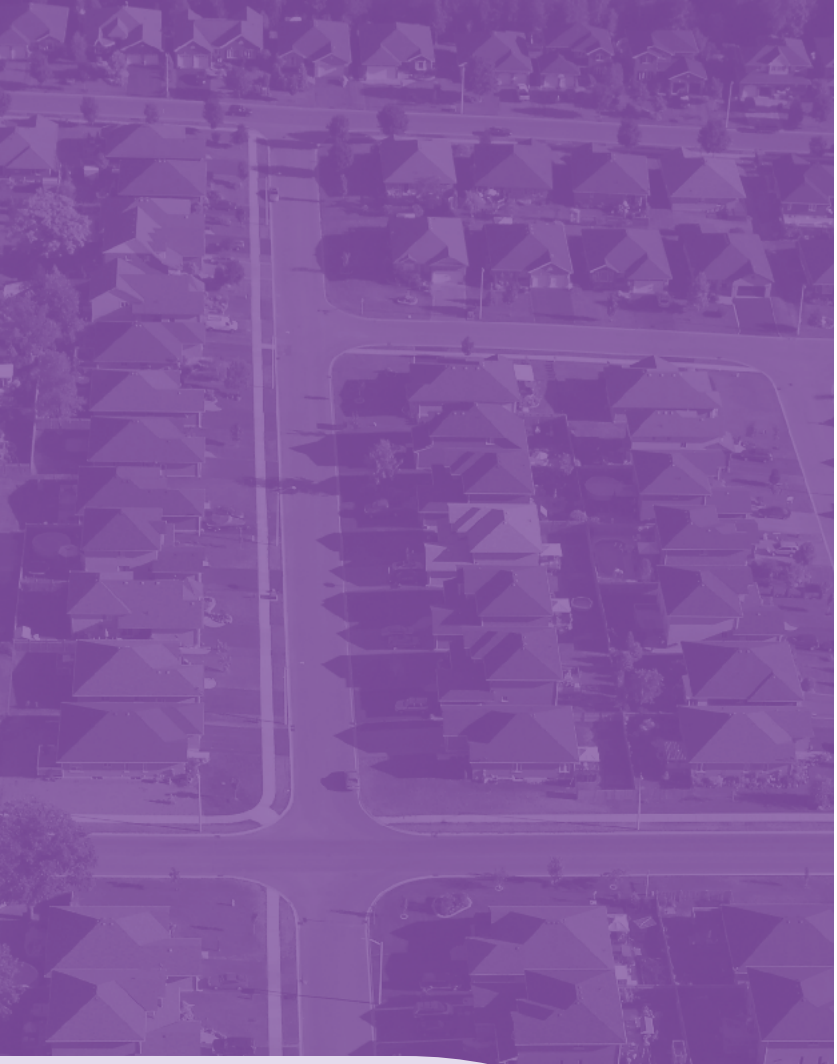
The Alberta Provincial 100m Raster is an ArcGIS raster dataset that was created from the Alberta Provincial Terrain. Cells are 100m by 100m and the value assigned to each cell is elevation in metres above sea level.

Open Data License

ALBERTA PROVINCIAL TERRAIN

The Alberta Provincial Terrain is a comprehensive GIS dataset that seamlessly integrates elevation data, imagery, and derived products (1:20,000 DEM, raster, and hillshade) to provide a complete and continuous representation of Alberta's landscape. This versatile dataset enables the generation of various visual displays and analyses, including slope, aspect, contours, 3D relief, and land cover classification. It can also be used to delineate watersheds, identify depressions, and create hypsometric maps (elevation-based color schemes).

Open Data License



Imagery
PRODUCTS

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Streaming Services

As a reseller of Planet and Hexagon Streaming Services, Altalis provides instant access to seamless, high-resolution imagery and raster layers. These services can be accessed directly from your desktop or any web-enabled application. By eliminating the need to store and maintain preprocessed data, streaming allows users to easily integrate imagery and raster layers into their existing workflows for analysis, mapping, and other applications. Planet's PlanetScope offers near-daily global coverage, SPOT 6/7 covers Western Canada and Hexagon Views offers high-resolution aerial imagery for the Western Canadian Sedimentary Basin.

PLANETSCOPE

Planet Access is a flexible, cloud-based subscription that empowers you with on-the-fly access to the PlanetScope imagery catalog. With an annual subscription, you get immediate access to new imagery, updated daily, or to the PlanetScope archive. Planet Access enables you to stream near-daily images of the entire earth's surface at 3.7m resolution, and download complete, seamless, and precise mosaics over your area and time of interest.

For-Fee License

SPOT SATELLITE

SPOT 6/7 provides high-resolution (1.5m), seamless satellite imagery coverage for Western Canada via a Web Mapping Service (WMTS). Updated annually, this service offers multispectral, panchromatic, panchromatic stereo, and pansharpened imagery options.

For-Fee License

HXDR VIEWS

Views is a Streaming Web Service that incorporates raster imagery data directly into existing GIS tools and workflows. By simply connecting to a web server, users have unlimited 24/7 access to a (Web Mapping Service) of high-resolution (30-40 cm) mosaics of aerial ortho imagery covering most of Western Canada.

For-Fee License

Ortho Images

An Ortho Image is an aerial or satellite photograph which is geometrically corrected ('ortho-rectified') using ground elevation data to correct displacements caused by differences in terrain relief, lens distortion, and camera tilt. It combines the image characteristics of a photograph with the geometric qualities of a map and can be used to measure true distances.

As a reseller of Planet and Hexagon, Altalis offers high resolution and current SkySat Tasking and HxDR Imagery products across the globe.

SKYSAT TASKING

Planet SkySat Tasking provides reliable and rapid access to high-frequency, high-resolution (50 cm) real time imagery for any location on Earth. The Tasking Dashboard simplifies the ordering and tracking process, ensuring fast access and publication latency of less than 10 hours.

With 21 satellites in orbit, the SkySat constellation is unmatched in size. Planet Tasking empowers organizations to capture imagery on their own terms, giving them intelligence and visibility multiple times per day.

For-Fee License

HXDR ORTHOS

Altalis provides a direct link into the HxDR Ortho Imagery Store, which features interactive search and preview tools with the ability to upload a shape file and find imagery products, coverage, resolution and price. High quality imagery can be downloaded within minutes.

Hexagon's aerial orthophoto library offers an extensive coverage of orthoimages, oblique & stereo imagery, with resolutions ranging between 15-30cm across North America and Europe.

For-Fee License

Infrastructure

PRODUCTS

Infrastructure data layers represent the physical structures, facilities and systems that are required for a country or business to operate such as transportation, utilities, telecommunications, energy, and water and sanitation.

Altalis works in partnership with GDM and is a proud reseller of their comprehensive suite of infrastructure products, including Enhanced Pipeline & Facilities, Low Pressure Pipelines, and Transportation datasets. Fortis has also entrusted Altalis to distribute the electrical facility data covering their Alberta service area.

Pipeline

GDM ENHANCED PIPELINES

With over 440 attributes, the GDM Enhanced Pipeline & Facility dataset is the single source for spatially accurate, comprehensive and current pipeline, gas plant and facility information in Canada. Key features include enhanced and regulated spatial locations, regulatory license approval and project numbers, status, substance & H2S content, current and historical ownership, outside diameter & wall thickness, from-to locations, regulated permit and approval dates. This dataset overlays perfectly with Cadastral, Title and Disposition mapping in Alberta.

For-Fee License

GDM LOW PRESSURE PIPELINES

The GDM Low Pressure dataset is a spatially accurate representation of natural gas pipeline infrastructure and utility distribution pipelines outside of major cities and First Nation Reserves in Alberta. Key features include spatial location of distribution lines, service points, operator, status, contact information for distribution franchises, outside diameter, and material.

For-Fee License

Transportation

GDM TRANSPORTATION

GDM Transportation is the single source for comprehensive and spatially accurate transportation information featuring wellsite, facility and resource lease roads, road ownership and names, route classification with private and public designations, road restrictions and public land dispositions.

Understanding public and private road infrastructure is critical to ensure the fastest, most responsible and cost-effective movement of equipment, people, and resources.

For-Fee License

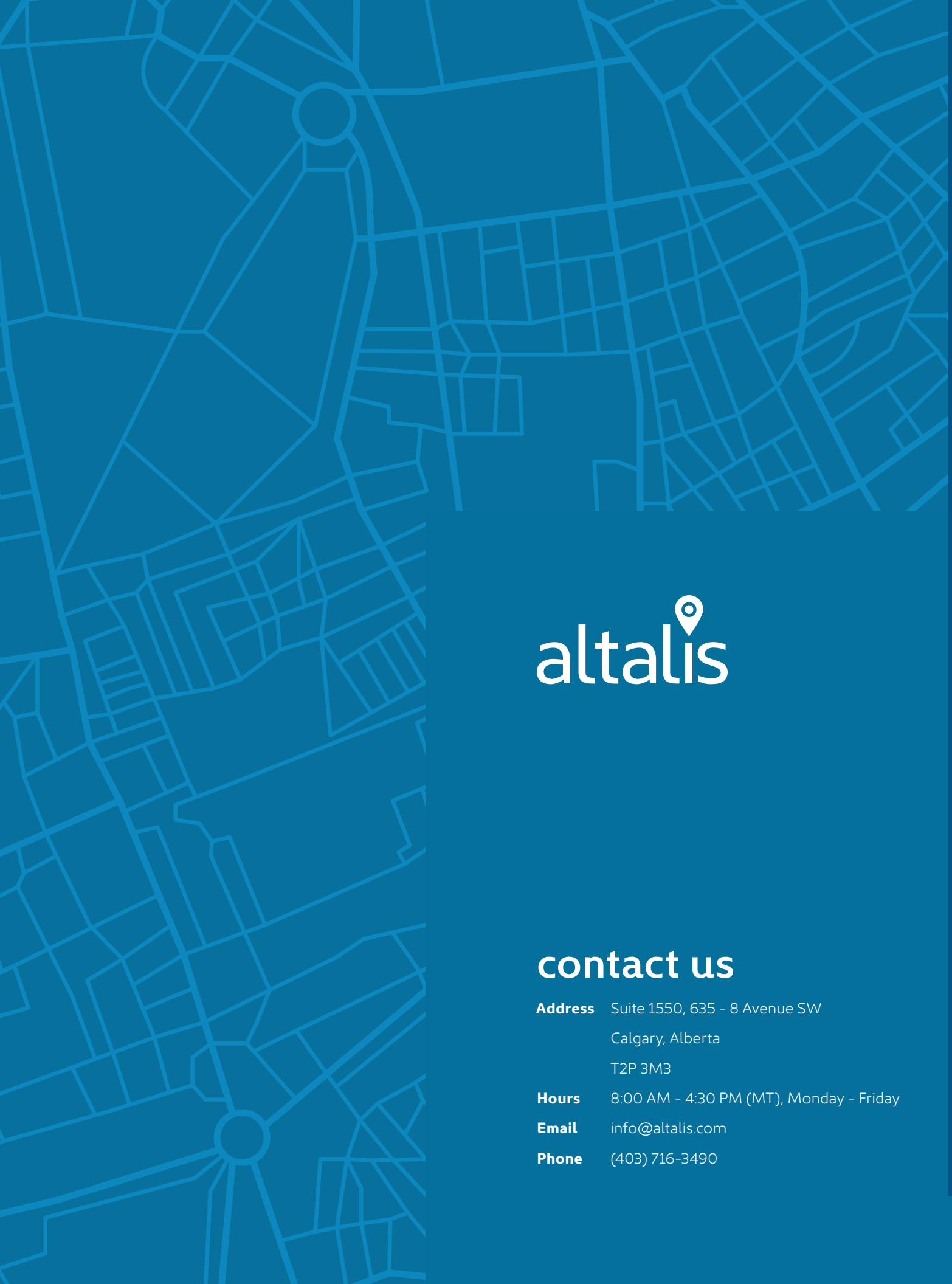
Electrical

FORTIS FACILITY DATA

FortisAlberta, a leading electricity distribution provider, delivers safe and reliable power to over half a million customers across 200 Alberta communities. Responsible for building, maintaining, and upgrading a vast electrical network, Fortis manages over 1 million power poles and more than 117,000 kilometers of primary and secondary lines.

Altalis offers monthly updated Fortis Facility Data, comprising of four GIS layers: Poles, Conductors, Street Lights, and Service Territory. These layers contain detailed attributes like ownership, installation dates, dimensions, voltage, and more. It is essential to note that while this data provides surface-level infrastructure information, you should always "Dial Before You Dig" to locate any underground services.

For-Fee License



altalis

contact us

Address Suite 1550, 635 - 8 Avenue SW
Calgary, Alberta
T2P 3M3

Hours 8:00 AM - 4:30 PM (MT), Monday - Friday

Email info@altalis.com

Phone (403) 716-3490