



OPEN DATA AREAS  
ALBERTA

URISA Alberta - Calgary

December 13, 2016

[www.opendataareas.ca](http://www.opendataareas.ca)

### Alberta Data Partnerships

Formed in 1996 as "Spatial Data Warehouse" to manage land ownership mapping in Alberta.  
Operates PIs with ARAUS and ARAUS to provide data access to industry, government and the public.  
A not for profit, virtual company funded by data sales and focused on data distribution and stakeholder engagement.



### Data Distributed

TOBA PTE  
Cultural and Title Mapping  
Dispersion Mapping (DMS)  
Public Land Survey Plans  
LIDAR  
DPSR DATA  
375 Area, 375 Area and 375  
Small Scale CAD

### OPENNESS

Availability and Access for data sets for public use and access. Openness is a key principle of the Open Data Areas. The data is made available in a format that is easy to use and access. The data is made available in a format that is easy to use and access. The data is made available in a format that is easy to use and access.



### ODAA Initiative

Alberta Data Partnerships (ADP) in collaboration with the Government of Alberta have developed Open Data Areas Alberta (ODAA) and provide open commercialization funding for SMEs to support the goals of industry and government.  
Open Data Areas are representative of provincial land and cover types and would encompass a range of recreational, commercial, and industrial activities.

### Data Providers (so far)

- DigitalGlobe
- Terra
- Airborne Imaging
- Albers
- Hybrid Consulting
- Stantec
- Government of Alberta
- HBC

### UNSUBMITTED PROPOSALS

We will need to have for the proposal submission process. We will need to have for the proposal submission process. We will need to have for the proposal submission process.

### Funding Opportunity

Candidates must present a case for funding that meets CMAA requirements. Applicants will need to demonstrate the problem and how they plan to solve it using the available data.  
CMAA can provide funding (a maximum of \$40,000 per project) and will identify knowledge gaps to address the issues facing industry, government, and stakeholders.  
First Deadline: February 18, 2017

### VALUE TO URISA PARTNERS

DATA PROVIDERS  
DATA USERS  
PRODUCT DEVELOPERS





OPEN DATA AREAS  
ALBERTA

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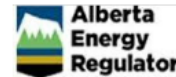
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# Alberta Data Partnerships

Formed in 1996 as “Spatial Data Warehouse” to manage land ownership mapping in Alberta.

Operates P3s with AltaLIS and Abacus to provide data access to industry, government and the public

A not for profit, virtual company funded by data sales and focused on data distribution and stakeholder engagement.





# Data Distributed

## FOR A FEE

- Cadastral and Titles Mapping
- Disposition Mapping (DIDs)
- Public Lands Survey Plans
- LIDAR15

## OPEN DATA

- 20K Base, DEM and Topo
- ATS
- Small Scale CAD

# ADP Business Model

ADP operates as a virtual company

ADP receives revenue from a portion of the data sales to AltaLIS and Abacus customers

## Master Data Agreement

ADP and GoA have an agreement in place to November 2019 to provide services related to:

- Title/Cadastral Mapping
- DIDs
- PDS
- Open Data

# Master Data Agreement

ADP and GoA have an agreement in place to November 2019 to provide services related to:

- Title/Cadastral Mapping
- DIDs
- PDS
- Open Data

# OPENNESS

**Availability and Access:** the data must be available as a whole and at no more than a reasonable reproduction cost, preferably by downloading over the internet. The data must also be available in a convenient and modifiable form.

**Re-use and Redistribution:** the data must be provided under terms that permit re-use and redistribution including the intermixing with other datasets.

**Universal Participation:** everyone must be able to use, re-use and redistribute - there should be no discrimination against fields of endeavour or against persons or groups. For example, 'non-commercial' restrictions that would prevent 'commercial' use, or restrictions of use for certain purposes (e.g. only in education), are not allowed.

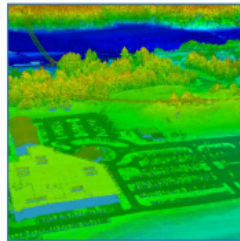


## ODAA Initiative

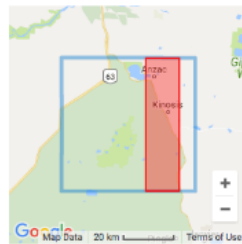
Alberta Data Partnerships (ADP) in collaboration with the Government of Alberta have developed Open Data Areas Alberta (ODAA) and provide pre-commercialization funding for SMEs to support the goals of industry and government.

Open Data Areas are representative of provincial (and global) land cover types and would encompass a range of recreational, commercial, and industrial activities





## EXTENTS



## LIDAR: OIL SANDS

### Fort McMurray

The Oil Sands Data project included the collection of hyperspectral, lidar and digital image data in five project sites at and near Fort McMurray using a fixed wing aircraft with lidar system and hyperspectral sensor. A combined GPS/INS System (Inertial Navigation System) is used for aircraft attitude and position. Approximately a total of 1038 km<sup>2</sup> was covered on this mission. Flight height was approximately 1500 metres above ground level to retain 2 metre spatial resolution for hyperspectral Imagery. Calibration flights were conducted at Fort McMurray Airport (YMM), AB Canada.

Taking random samples throughout the project area, the average point density for a single flight line is approximately 5 pts/m<sup>2</sup>. Due to the fact that the majority of the area is covered by overlapping flightlines, the point density averages closer to 10 pts/m<sup>2</sup>.

TRSI established four static control points in project sites to validate horizontal and vertical alignment for lidar points. The static stations used concurrent observations from Pleiades Data Corp Active Control System Station PFTM located in Fort McMurray, Alberta.

## METADATA

Data Provider	NRCAN & University of Victoria
Contributors	Terra Remote Sensing Inc (TRSI)
Coverage	Partial coverage
Currency	August 2013
Product Type	Point Cloud
Format	LAS
Projection	UTM (Zone12)
Accuracy	Relative accuracy of +/- 15 cm and absolute accuracy of 30 cm
Other Specifications	NAD83 Original
Publisher	Alberta Data Partnerships
Data License	<a href="#">Open Data Areas Data License</a>
Download	24.66 GB



## Data Providers (so far)

- DigitalGlobe
- Tarin
- Airborne Imaging
- AltaLIS
- Hatfield Consulting
- Planet.
- Government of Alberta
- NRCAN

# Funding Opportunity

Candidates must present a case for funding that meets ODAA's requirements. Applicants will need to demonstrate the problem and how they plan to solve it using the available data.

ODAA can provide funding to a maximum of \$40,000 per project and will identify knowledge gaps to address the issues facing industry, government, and stakeholders.

First Deadline: February 28, 2017

## CHALLENGE

### Data Integration and Visualization

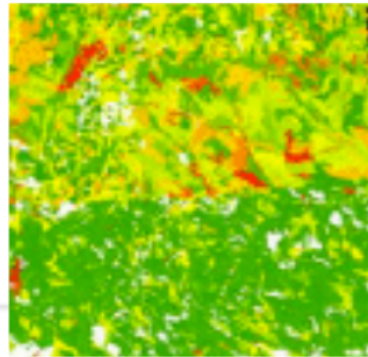
GAP: Need to enable integration of data from many disparate sources, many file formats, and across locations within a company and/or between organizations.



# CHALLENGE

## Mapping and Data Analysis

GAP: Need for scalable remote sensing solutions for mapping and updating inventories (e.g., soil, vegetation) and ecosystem services.





## UNSOLICITED PROPOSALS

You will need to show that the proposal includes elements such as product development, sourcing first customers, and solving real business needs, preferably with a potential customer.

The funding must be used to demonstrate a viable working prototype.



VALUE TO URISA MEMBERS

DATA PROVIDERS

DATA USERS

PRODUCT DEVELOPERS

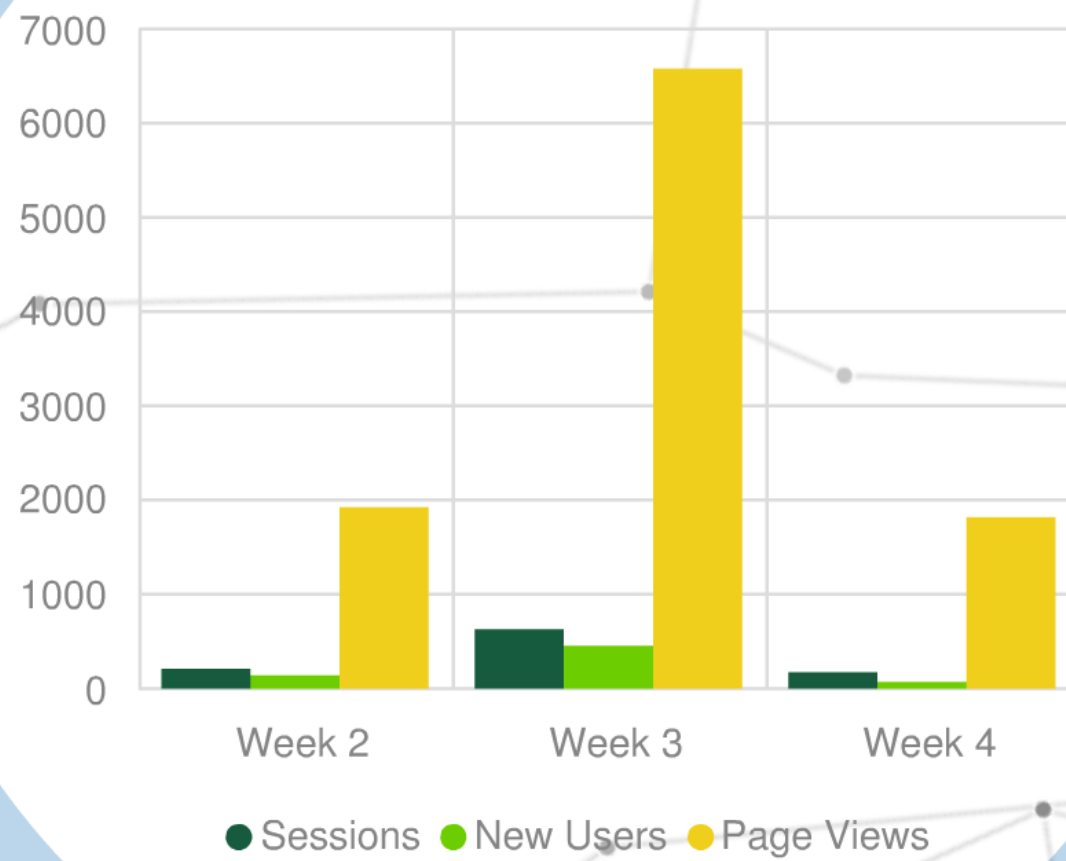


A background graphic featuring a network of grey lines connecting small grey dots, with a large grey circle on the right side.

VALUE TO URISA MEMBERS

DATA PROVIDERS

DATA USERS





DATA USERS



Almost 100 Data Sets

No-cost, no restriction on use

Ability to test data that  
otherwise may be unavailable

Help identify other ODAA  
datasets



**DATA USERS**

**PRODUCT DEVELOPERS**



Up to \$40,000 in pre-commercialization grant

Ability to leverage industry or government funding

Exposure to potential clients through ODAA workshops



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