On the Map with ParcelMap BC

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World GIS DAY! November 17th 2021

Agenda

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What is ParcelMap BC?

The *single, complete, trusted* and *sustainable* map-based representation of land parcels and their relationship to adjacent parcels across all of BC.

A *visual representation* considered to be the point of truth for the graphical representation of property boundaries.

A key piece of *data infrastructure* supporting *economic and social development* in the province.

Special Achievement in GIS
2017 Award Winner

What it is *not:*
It is not the authoritative source for the legal property boundary or related records attributes. This will always be the plan of survey or the related registry information. For the time being…

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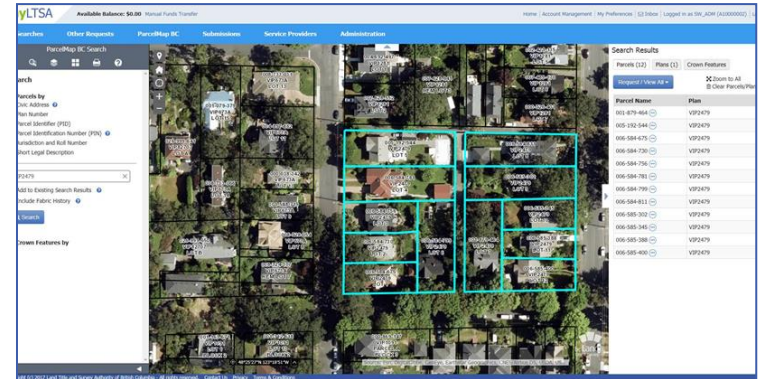
What is ParcelMap BC? 2.2 million parcels and counting

2.2 million parcels including:
- titled and surveyed crown lands
- road dedications
- parks
- spatially defined interests such as statutory rights of ways, leases, and easements

Province of BC:
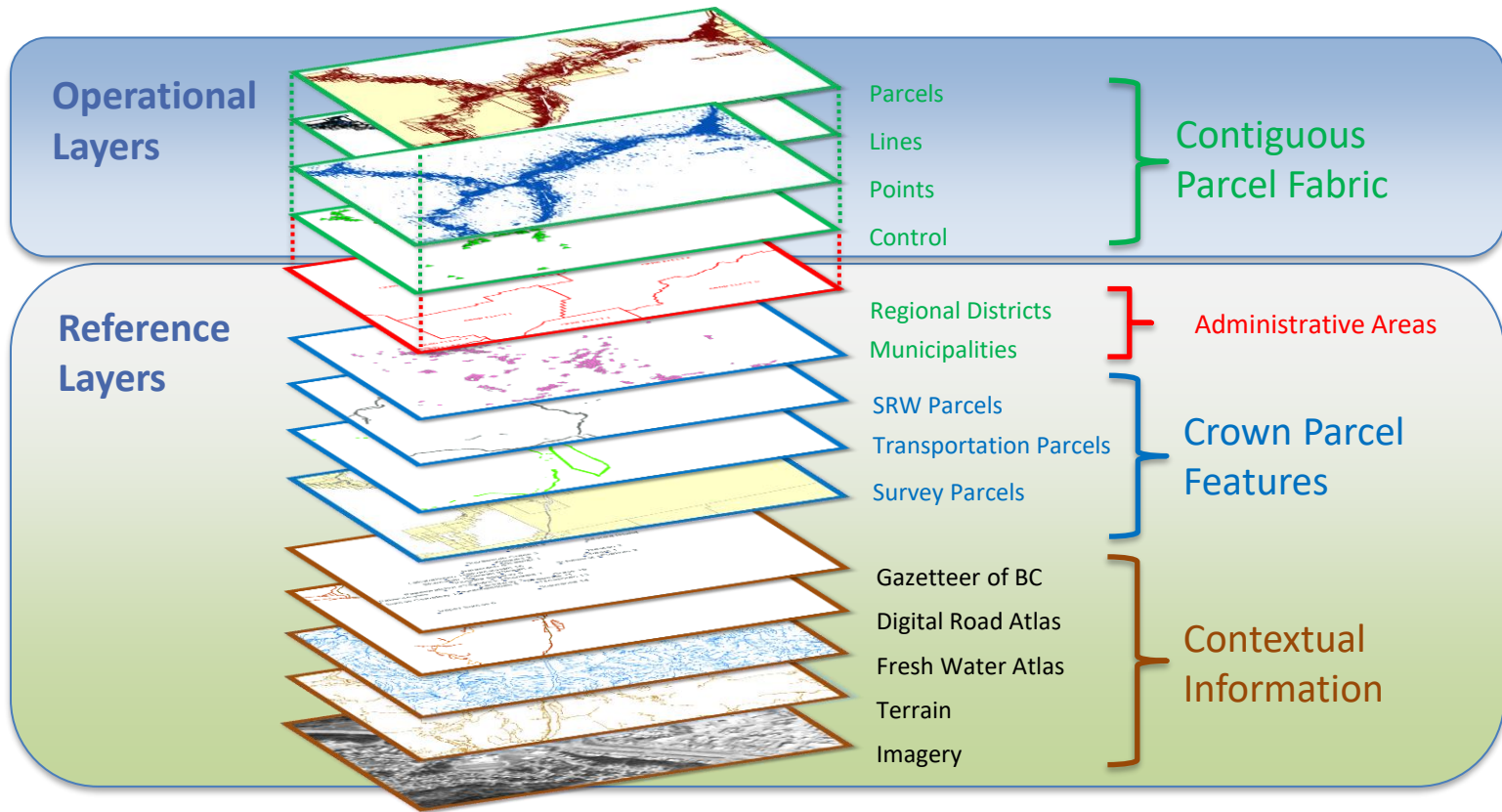~ 93% of land in BC is Provincial Crown land
~ 90% is unsurveyed
~ 7% of land in BC is privately owned land
2x California (424,000 km²)
3x United Kingdom (243,600 km²)

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What is ParcelMap BC? A multi-component dataset

Why did we develop ParcelMap BC?

To meet the demands for an efficient, consistent and accurate means of visually representing land title and survey information on a province-wide basis via rich, easy to use spatial data products and services.

ParcelMap BC: Operational Status

Turnaround target / Plans Integrated

- 2 days from registration / confirmation
- Met or exceeded since March 2018 with ~1 day for well over a year!
- Integrate approximately 750 Survey Plans into ParcelMap BC per month.

Monthly Average Turnaround (day) - Last 13 Months

Month	Value
December, 2020	0.93
January, 2021	0.89
February, 2021	0.90
March, 2021	0.91
April, 2021	0.88
May, 2021	0.91
June, 2021	0.95
July, 2021	0.91
August, 2021	0.80
September, 2021	0.92
October, 2021	0.99
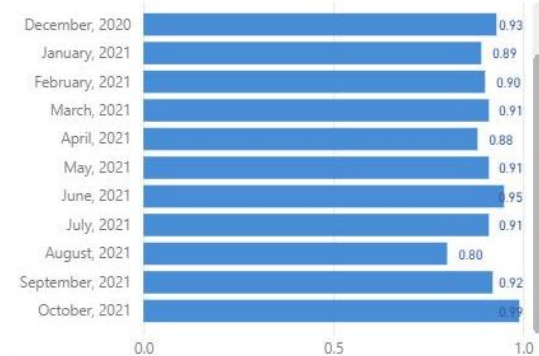
Extending the original scope

- Added Crown SRWs, AFBs, Foreshores, Cad Ties, Titled Roads
- In the works: Historic ROWs, Historic Highway Plans…

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ParcelMap BC: Connecting all the Dots

Land Title Registry — REGISTERS PLAN

Plan Image .PDF

CAD .dwg

Land Title Act Survey Strata Prop. Act Survey

PID, Parcel Status, Legal Description, Ownership, Jurisdiction

Parcel Map BC – **Fabric Operations**

PIN, Parcel Status, Legal Description

Surveyor General's Division — CONFIRMS PLAN

PIN, Legal Description

Parcel Status, Plan Information

Crown Land Registry/ TANTALIS

Province of BC

Plan Image .PDF

CAD .dwg

Land Act Survey

SPDS SUBMISSION

PUBLICATION

SPDS Submission

Survey Plan Submission Portal

Parcel Map Search and Download Services

Parcel Map BC – **myLTSA**

SPDS Submission

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ParcelMap BC: Prepare Survey Plan Dataset
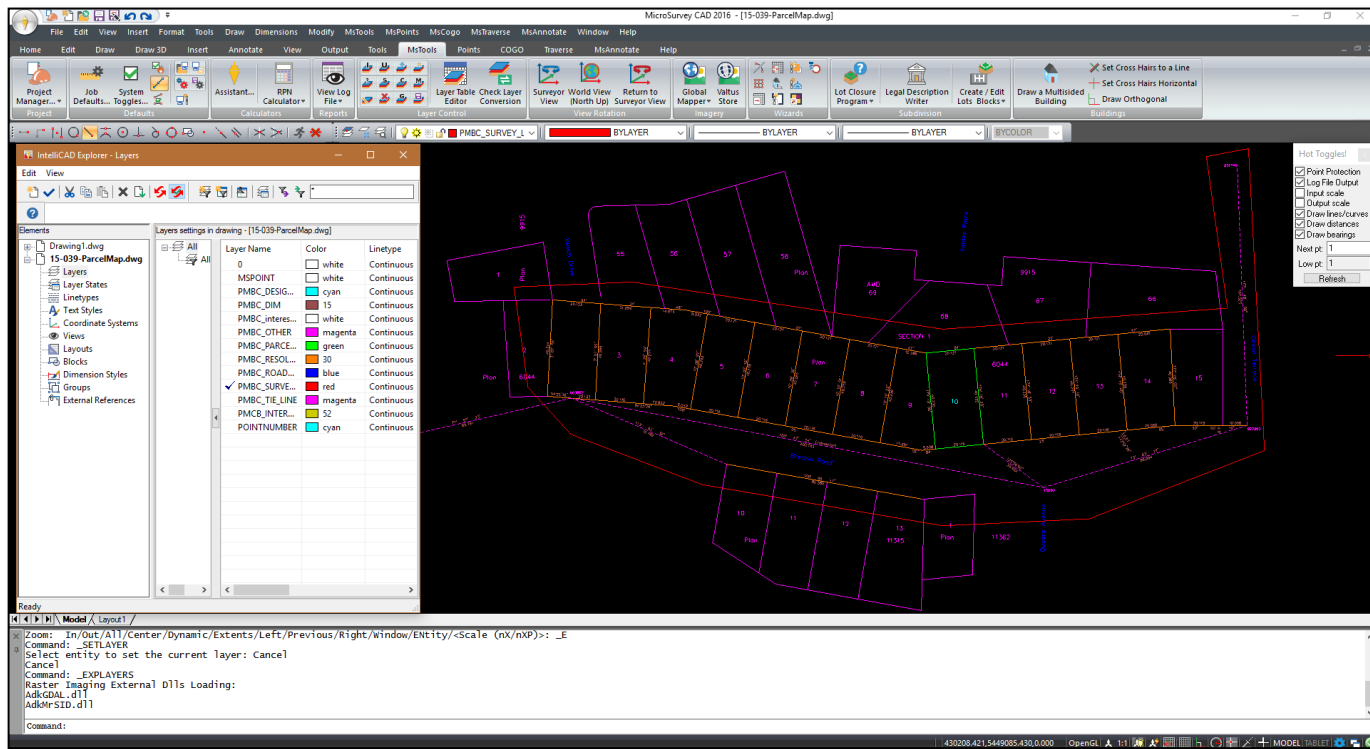
Prepared using drafting / CAD software such as:
- MicroSurvey
- AutoCAD
- Other CAD platforms

Guidelines for Preparing a Survey Plan Dataset

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ParcelMap BC: Upload Survey Plan Dataset

Create or Edit using the Survey Plan Dataset Submission (SPS) service

ParcelMap BC: PFM & Work Management

ParcelMap BC: General Integration Steps

1. **Submit** - Land surveyors submit survey plan data CAD + CSV (associated Control Points).

2. **Transform** - FME Script transforms source data into GIS format (lines and polygons), download from Work Manager with the source CAD / CSV file(s).

3. **Attribute** - Operations team attributes polygons with data from Land Title Register and transforms it into 'staging' Esri Parcel Fabric.

4. **Integrate & Post** - Integrated or joined into Parcel Fabric via several methods before QC'd and posted.

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ParcelMap BC: Data Stored in Parcel Fabric

"Manages the spatial and topological relationships inherent in cadastral data" – ESRI

Preserves COGO information regardless of mapped or representative shape

Retains historic parcels/plans

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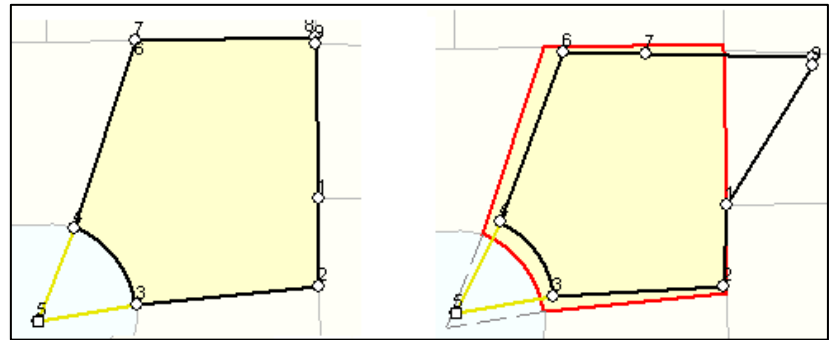
ParcelMap BC: Improving Absolute Position of Parcels

Before: misalignment between parcel fabric and real world
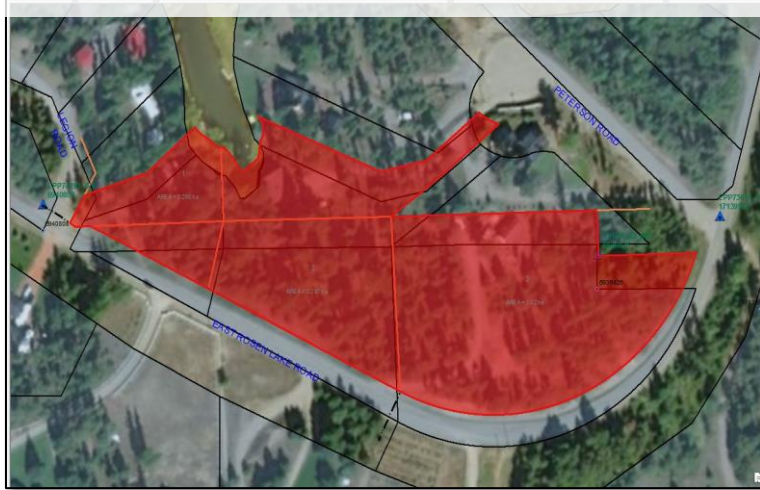
After: parcel fabric better aligned with reality

- Parcel boundaries match features on the ground.
- Coordinates of parcel corners from the fabric could be used to locate survey evidence in the field.

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How can you use ParcelMap BC?

parcelmapbc.ltsa.ca

myLTSA
for Enterprise and Explorer Users

myLTSA
for Land Surveyors

GUEST ACCESS
through ltsa.ca
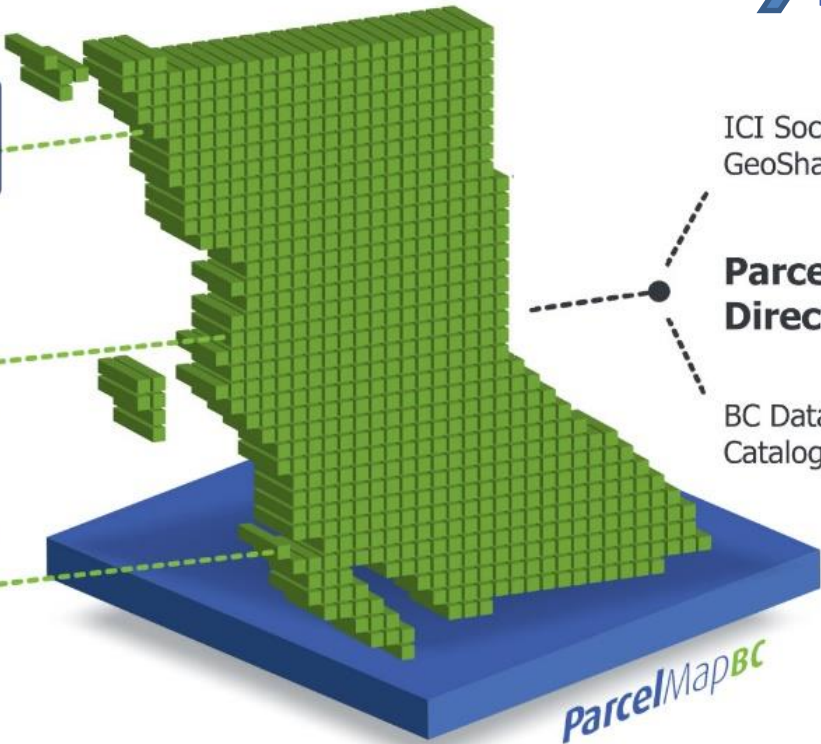
ICI Society GeoShare

ParcelMap Direct

BC Data Catalogue

ParcelMapBC

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ParcelMap BC: Search by Civic Address

ParcelMap BC: Search by Plan Number

ParcelMap BC: Access Records by Titles (Single or Multiple)

ParcelMap BC: Access Records by Survey Plans (Single or Multiple)

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Our Customers

- Local Governments

- Provincial Government

- Agricultural Land Commission

- BC Assessment

- Real Estate Agents

- Conveyancers of Land Information / Legal Professionals

- Land Surveyors

- Utilities

- General Public

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4 Key Takeaways

1 The *single, complete, trusted* and *sustainable* map-based representation of land parcels and their relationship to adjacent parcels across all of BC.

2 A *dynamic* and *evolving* 'parcel fabric' that is being improved daily to better serve our customers and the public.

3 *Already* being used by most *conveyancers* of land information in the Province.

4 *You* have access to our ParcelMap Search Services (PMSS) *webmap* already! Go give it a try.

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Thank You

Contact us:

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For more info visit:

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