Deep Dive into ParcelMap BC
Community Workshop

ICI Society Virtual Café

February 24th 2021
9:30 am to 12:00 pm

Presented By:

ParcelMap BC Operations Team

Agenda

Welcome to the Workshop: *Learning with the Community*

ParcelMap BC Community Overview: *What is today's state?*

Maintaining Currency & Quality in ParcelMap BC: *How is it maintained?*

Understanding ParcelMap BC Spatial Improvements: *Why, Where and When?*

Finding the Information You Need in ParcelMap BC: *What is in ParcelMap BC?*

Getting help with ParcelMap BC: *Where to find Adopter Resources?*

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Welcome to the Workshop

Camille Reid - VP Customer Operations
Brian Greening - Director, ParcelMap BC Products

Theme: Learning with the Community

We want to hear from you!

Please: Raise your hand or use the chat
to add your voice to the conversation today!

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ParcelMap BC Community Overview

What is Today's State?

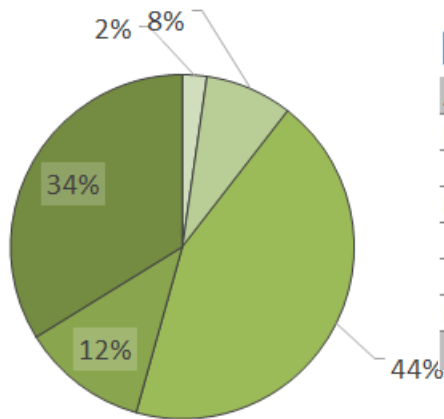Fully operational on **June 30 2017** - Our [3rd Anniversary StoryMap](#)

Adoption is a milestone, where ParcelMap BC is recognized as the authoritative cadastral parcel fabric representation in BC, spatially and for accompanying attribution, by the Adopter organization
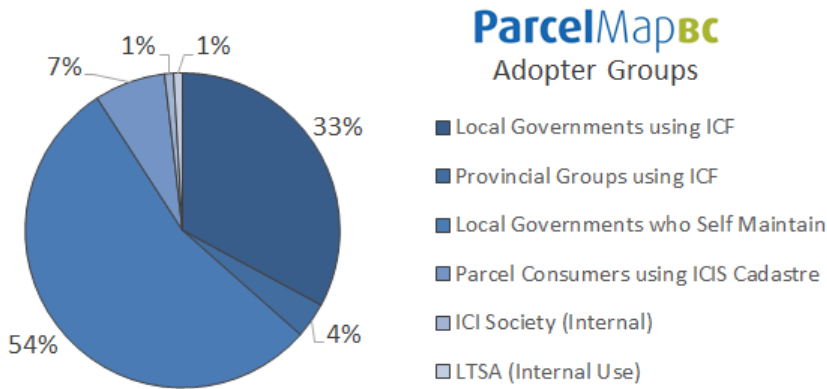
Data infrastructure
supporting
economic
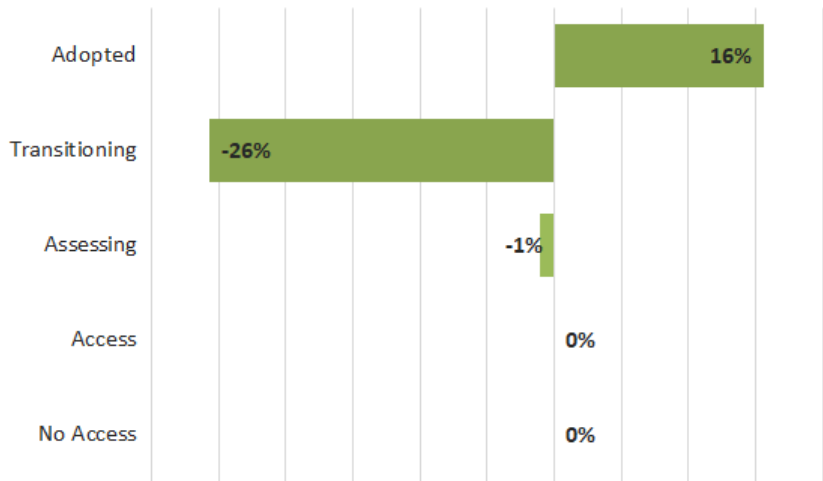and
social development
throughout the province.

ParcelMapBC
Adopter Groups

- Local Governments using ICF
- Provincial Groups using ICF
- Local Governments who Self Maintain
- Parcel Consumers using ICIS Cadastre
- ICI Society (Internal)
- LTSA (Internal Use)

33%
54%
7%
1%
1%
4%

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Adopter Community: January 31ˢᵗ 2021 Report

ParcelMapBC

Adopter Groups by State	No Access	Access	Assessing	Transitioning	Adopted	Total
Local Governments using ICF	3	2	23	4	40	72
Provincial Groups using ICF	0	0	4	2	2	8
Local Governments who Self Maintain	1	15	62	14	27	119
Parcel Consumers using ICIS Cadastre	1	1	7	2	5	16
ICI Society (Internal)	0	0	0	2	0	2
LTSA (Internal Use)	0	0	0	2	0	2
	5	18	96	26	74	219

2% 8%

34%

12%

44%

Full details here

Adopted **16%**

Transitioning **-26%**

Assessing **-1%**

Access **0%**

No Access **0%**

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Adopter Dashboard: January 31ˢᵗ 2021 Footprint

LIVE map
Green = Adopted
Blue = Transitioning

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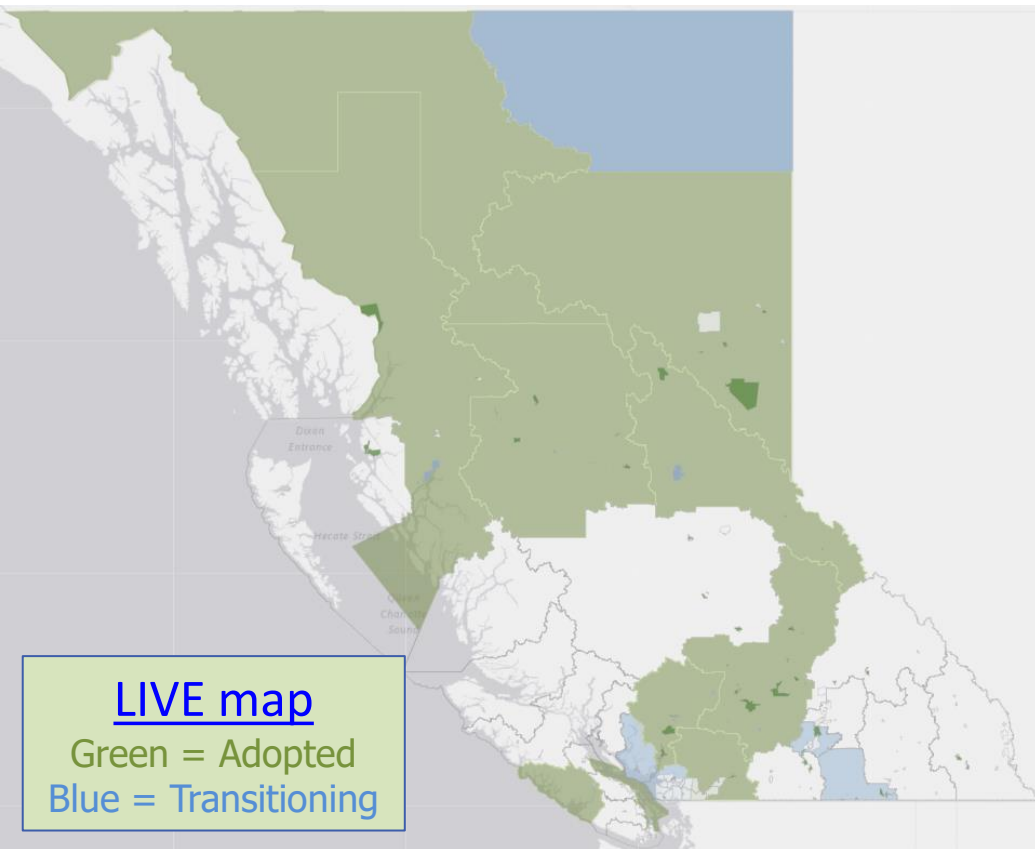
Current Adopters (74):

NEW Local Governments	*NEW* Other Adopters
Thompson-Nicola Regional District	
Village of Chase	
District of Logan Lake	
Village of Cache Creek	
Village of Lytton	
City of Merritt	
Village of Clinton	
District of Barriere	
Sun Peaks Mountain Resort Municipality	
District of Clearwater	

Full list available here

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Adoption Working Group (AWG)

[Adoption Working Group](#) created in 2018 with the ICI Society as a forum to address issues related to the adoption of ParcelMap BC.

New Participants Welcome: Contact us!
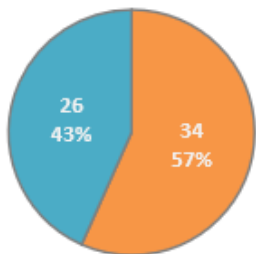
Focused on the **Issues Log** = 60 to date!

- LTSA Commitment to [Local Government Access to ParcelMap BC](#) (aka: "Fees Issue")
- Creation of many [Adopter Resources](#), including Implementation Partners
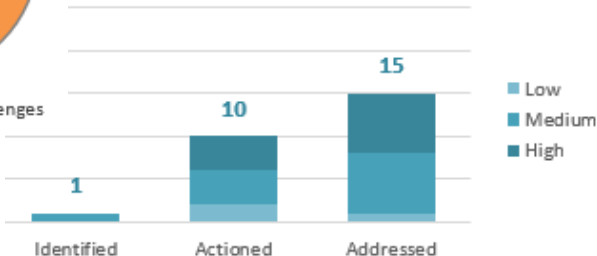
Sub-groups include:

- Data Alignment
- Land Records
- Province / ICF Retirement

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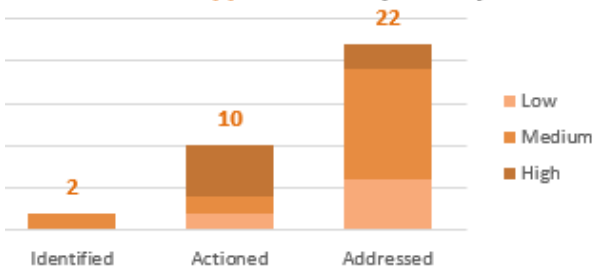

Adopter Issues Summary

- 26 43%
- 34 57%

■ Opportunities ■ Challenges

State of **Challenges** by Priority

■ Low
■ Medium
■ High

Identified: 1
Actioned: 10
Addressed: 15

State of **Opportunities** by Priority

■ Low
■ Medium
■ High

Identified: 2
Actioned: 10
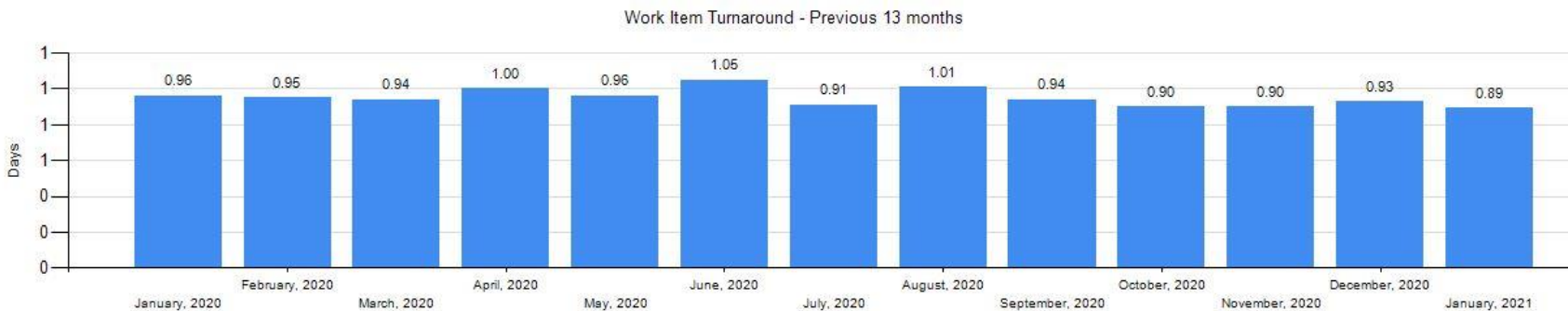Addressed: 22

ParcelMap BC Operational Status

Turnaround Target:
      2 days from Registration / Confirmation
      Met or exceeded since March 2018 with ~1 day for well over a year!

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

Work Item Turnaround - Previous 13 months

Month	Days
January, 2020	0.96
February, 2020	0.95
March, 2020	0.94
April, 2020	1.00
May, 2020	0.96
June, 2020	1.05
July, 2020	0.91
August, 2020	1.01
September, 2020	0.94
October, 2020	0.90
November, 2020	0.90
December, 2020	0.93
January, 2021	0.89

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Maintaining Currency & Quality in ParcelMap BC

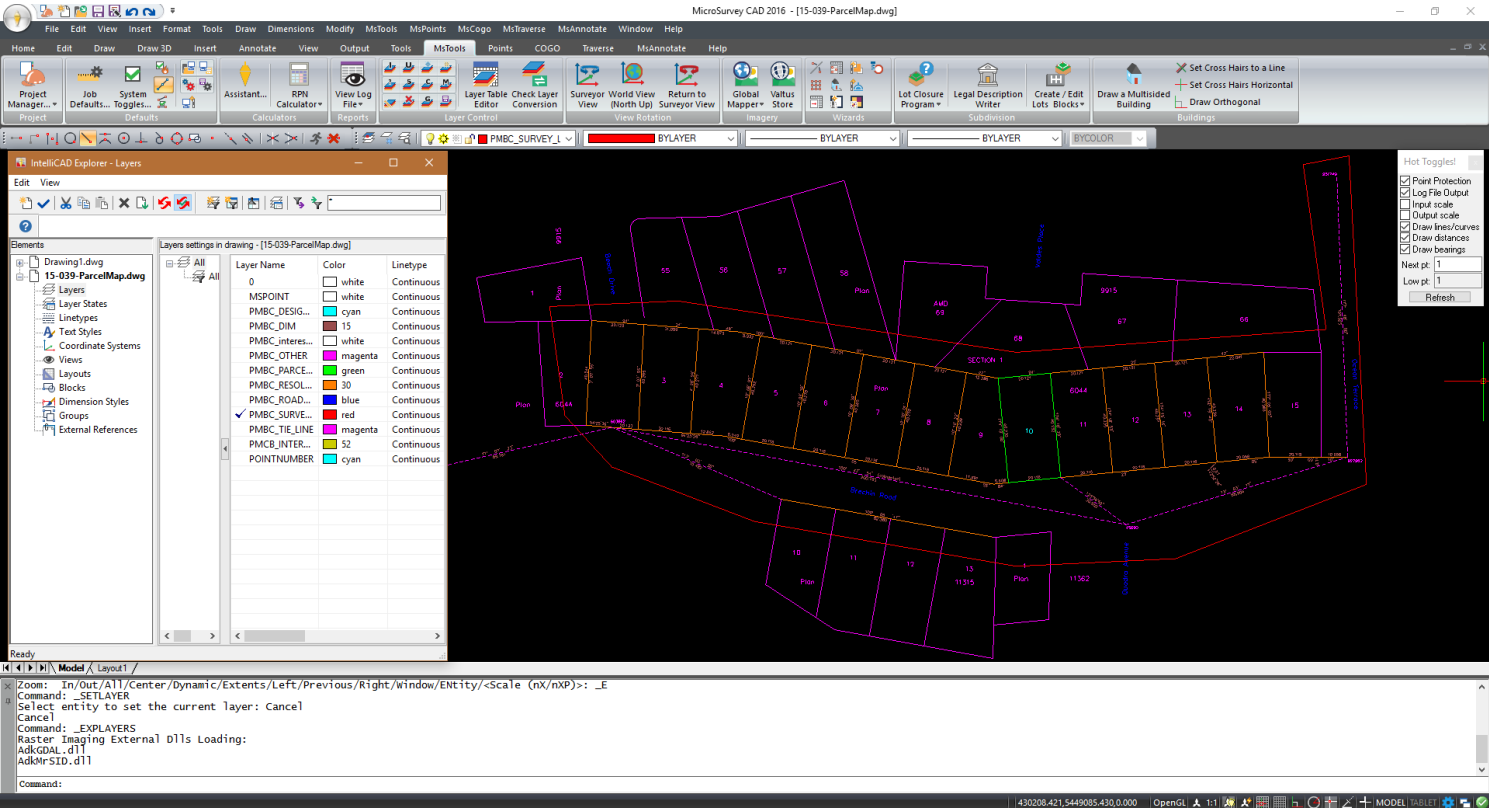## How is ParcelMap BC Maintained?

Key Concepts:
  Survey Plan Datasets
  Integration process and Spatial QA
  Operational Statistics

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ParcelMap BC: Connecting all the Dots

Land Title Registry — REGISTERS PLAN

PID, Parcel Status, Legal Description, Ownership, Jurisdiction

Plan Image .PDF

CAD .dwg

SPDS Submission

Land Title Act Survey / Strata Prop. Act Survey

Parcel Map BC – **Fabric Operations**

SPDS SUBMISSION

PUBLICATION

Parcel Map BC – **myLTSA**

Survey Plan Submission Portal

Parcel Map Search and Download Services

PIN, Parcel Status, Legal Description

SPDS Submission

Plan Image .PDF

CAD .dwg

Land Act Survey

Surveyor General's Division — CONFIRMS PLAN

Parcel Status, Plan Information

PIN, Legal Description

Crown Land Registry/ TANTALIS

Province of BC

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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

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ParcelMap BC: PFM & Work Management

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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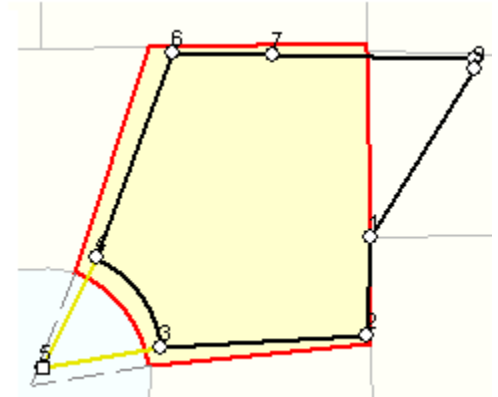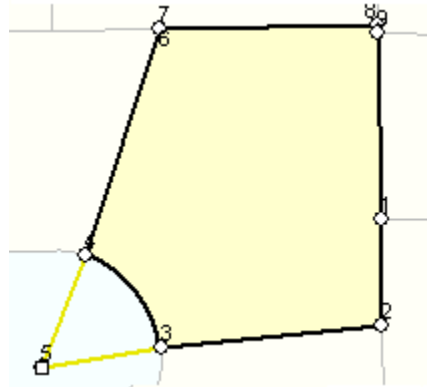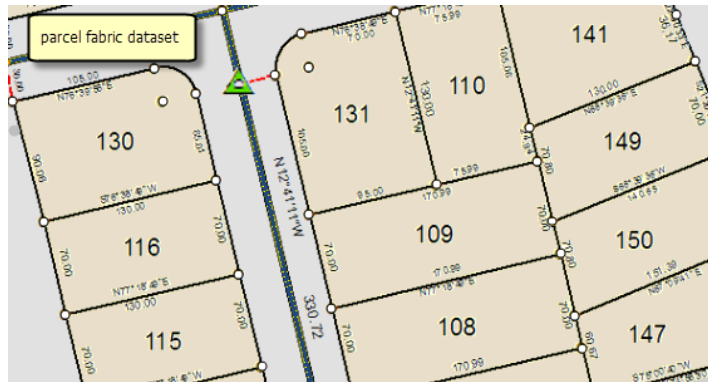
General Integration Steps

1. Survey Plan Data is submitted by Surveyors in a CAD format and a CSV (associated Control Points).

2. FME Script transforms that source data into a GIS format (lines and polygons) which are downloaded from the Work Manager along with the source CAD / CSV file(s).

3. Operations Team attributes the polygons with data from the Land Title Register related to the registered parcels and transforms it into a 'staging' Esri Parcel Fabric.

4. It is then integrated or joined into the Parcel Fabric via several methods before being QC'd and posted.

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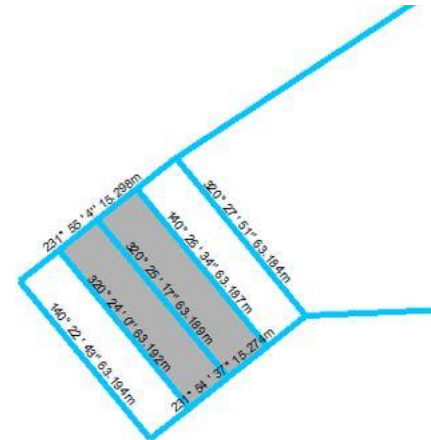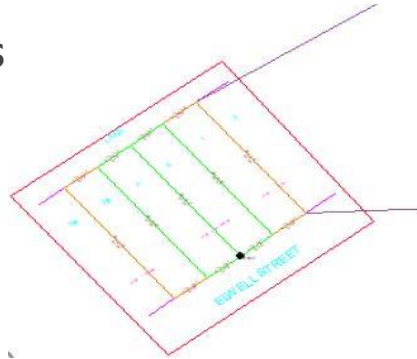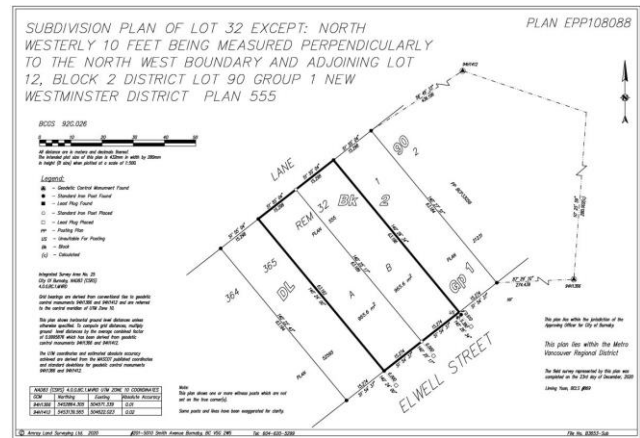
Using Survey Plan Datasets to Update ParcelMap BC

Type 1

Incoming survey spatially aligns with existing fabric.

Existing parcel fabric is of high quality.

Survey plan dataset gets fit to the location of existing parcel points so shape and location of existing fabric are preserved.

Type 2

Incoming survey does not spatially align with existing fabric.

Occurs when location and/or shape of existing fabric is lower quality.

Survey plan dataset preserved, and existing fabric parcel points being fit to new survey.

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Survey Plan Dataset Integration – Demo

ParcelMap BC Ops: Current Stats

Workitem Completed Volumes - Previous 13 months
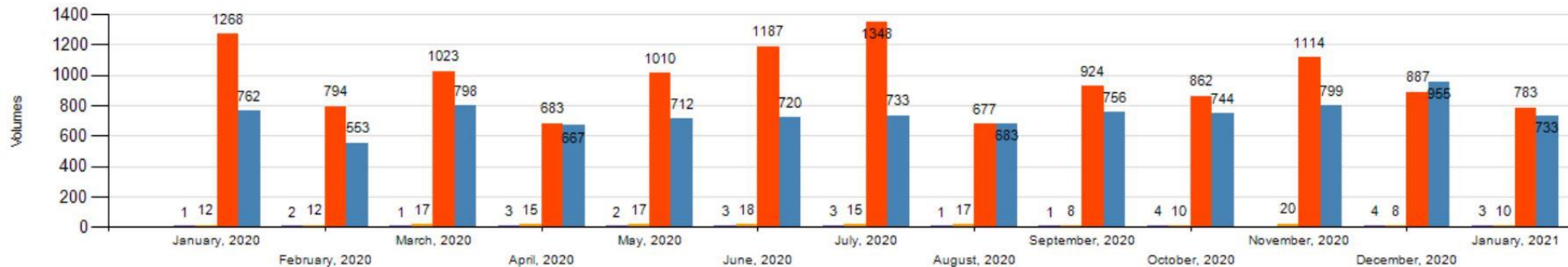
Work Item Turnaround - Previous 13 months
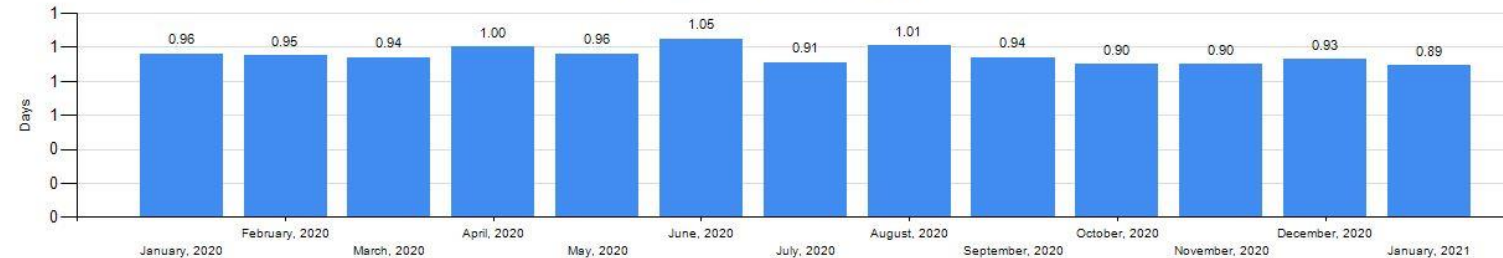
SPDS Defect Rate (Reported)	
YTD	Curr. Month
5%	6%

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ParcelMapBC: Tier 2 Customer Support - 2021

Number of Cases (YTD - 2021)	Median Turnaround Time (YTD - 2021)
74	2 days

Organization Type, January 2021

Legend:
- BRITISH COLUMBIA ASSESSMENT AUTHORITY
- Local Government
- LTSA
- Ministry
- Other
- Regional District
- Survey Firm
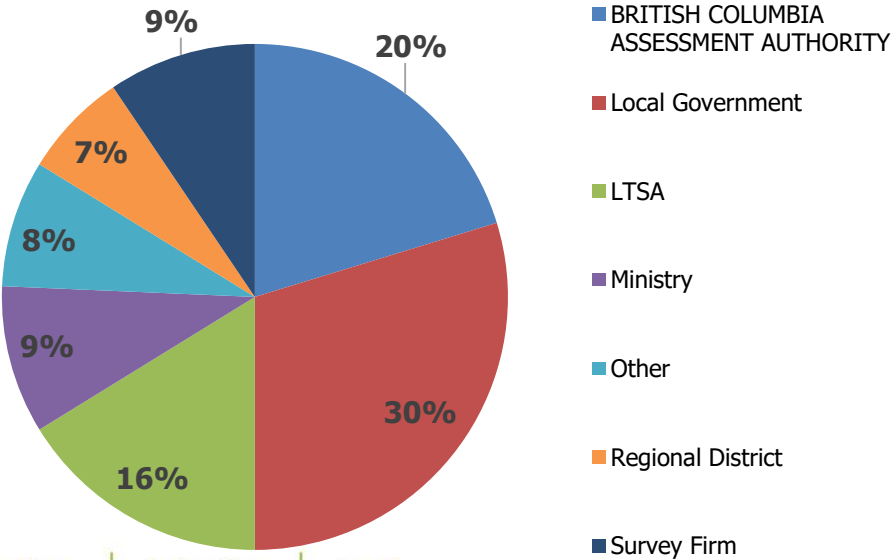
Support Type, January 2021

Legend:
- Attribute Update
- Geometry Update
- Inquiry (PMBC)
- Internal - LTO
- Internal - SGD
- ParcelMapDirect
- Spatial Improvement
- Survey Plan Dataset Submission
- Switched PIDs

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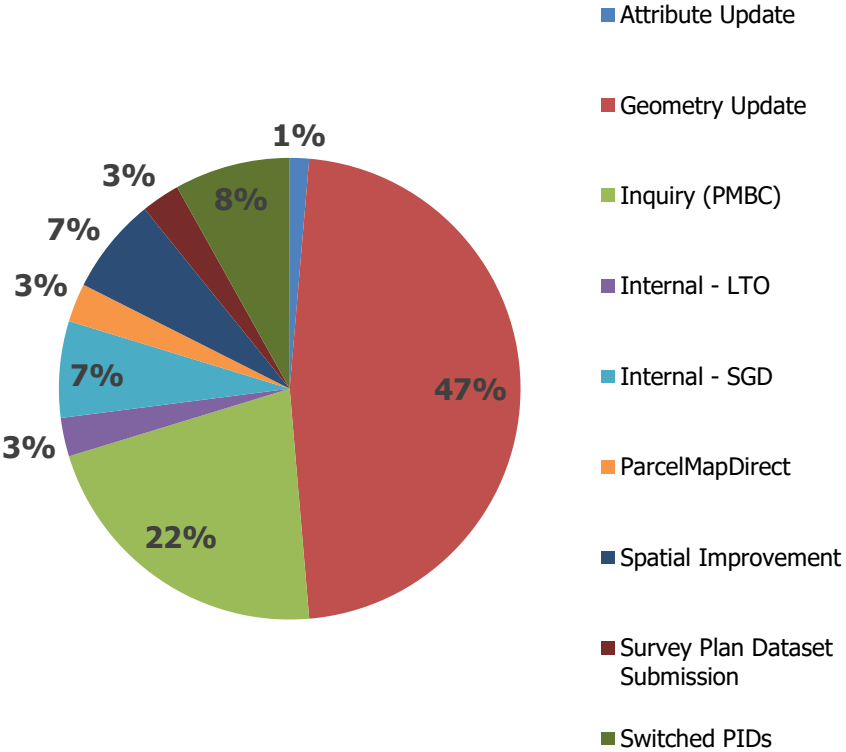
Understanding ParcelMap BC Spatial Improvements

Why, Where and When is ParcelMap BC spatially improved?

Key Concepts:
- Spatial Improvements
- Spatial Improvement Assessment (SIA) App & Layers
- Cad Tie Submission Program
- Spatial Improvement Operational Statistics

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Parcel Fabric Spatial Improvements

The ParcelMap BC Operations team targets delivery of spatial improvements for 1-2 Areas of Interest each month.

Areas of Interest are prioritized to address those areas of the parcel fabric most in need of improvement or through collaboration with the customer dependent on operational priories and a set of criteria.

In well-aligned areas, where an adjustment would not provide a meaningful improvement (e.g. shifting parcels by a few centimetres), spatial improvements are not generally applied.

Armstrong Before Improvement

Armstrong After Improvement

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Spatial Improvement Assessment App & Map Layers

Spatial Improvement Assessment app delivers a visualization of the analysis used by the ParcelMap BC Operations team to plan and prioritize spatial improvement work across the province.

Help resources for using the App and accessing the WebMap & Layers
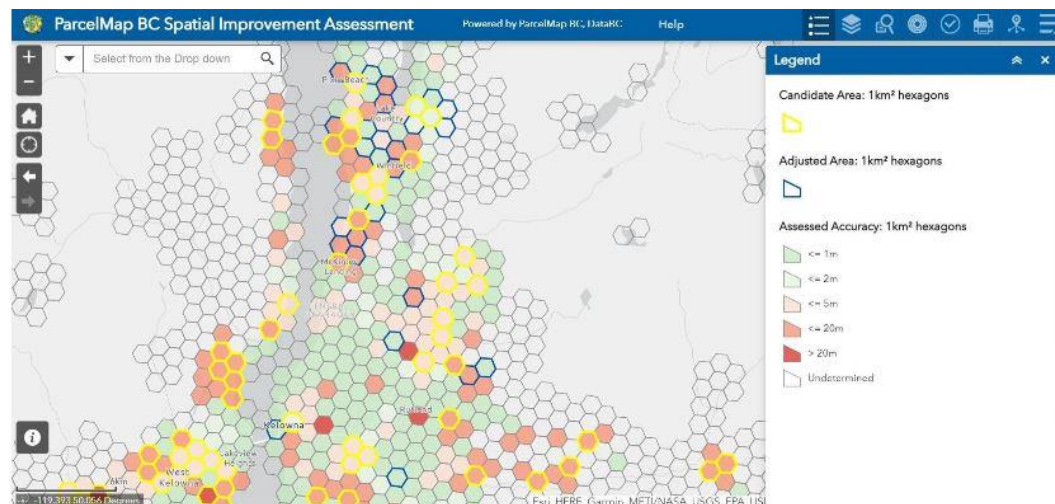
1. Provides transparency and insight into spatial improvement planning.
2. Provides a view into the assessed accuracy of the parcel fabric to broadly identify areas across the province with significant misalignment to control
3. Highlights areas where the assessment indicates an area's readiness and, if appropriate, as a candidate for improvement – see the list of Targeted Spatial Improvement Areas.

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Cadastral Ties Submission for Spatial Improvements

[Cadastral Tie Submission Guidelines](#) have been defined for organizations to submit cadastral ties captured outside legal survey plans to provide additional input to support spatial improvements.

- o New candidate areas for adjustment can be created with additional Control.
- o Standards / Guidelines and a Template (input data model) are available for those who want to participate.

Point_Id	UTM_N	UTM_E	Elevation	Monument_Type	Survey_Date	Monument_Comment	Plan	Positional Accuracy	Survey_Method	UTM_Zone	Horizontal_Datum_Ver	CSF
ID	5553706.646	330453.995	395.512	IP	dd/mm/yyyy		KAP80402	0.051	GNSS or conventional ties to passive control points	NAD_1983_CSRS_UTM_Zone_11N	NAD83(CSRS) 4.0.0.BC.1	0.99989080
M	M	M	O	M	M	O	O	M		M	M	M

Success!!

District of Summerland, Thompson Nicola Regional District as well as several BC Land Surveyors have participated in this program providing control ties which were integrated and used to spatially improve ParcelMap BC.

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Spatial Improvement Demo

ParcelMap BC Ops: Current Stats

Spatial Improvements:

Latest assessment to Feb. 4th, 2020.

Targeted:

Area of Interest	Target Month
Fruitvale	February 2021
Naramata	February 2021
Cowichan Valley Regional District	March 2021
West Vancouver	April 2021
Rossland	April 2021
Oliver and surrounding area	April 2021

Completed (*Latest* only – full list here):

Area Of Interest	Publication Date
Brackendale	November 17, 2020
Quadra Island	November 19, 2020
West of Armstrong	December 4, 2020
Chase	December 17, 2020
Barrier	December 20, 2020
Beaverdell	January 19, 2021
Savona	January 28, 2021
Waneta	January 26, 2021

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Finding the Information You Need in ParcelMap BC

What information is available in ParcelMap BC?

Key Concepts:

Parcel Types in ParcelMap BC:

"PINs, PIDs (and JUROLs) and neither" -- Crown, Interest, Strata, Roads, Parks, First Nations parcels

Owner Types in ParcelMap BC

More than just parcels!

Parcel Points (and Spatial Improvement Vectors), Plans, Control Points, Real World Changes

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ParcelMap BC by Parcel Class

See [How Parcels are Represented in ParcelMap BC](#) for more details.

- [Parcel Class](#) defines the ParcelMap BC logical data model

- Content categorized into 4 sections:

  - Strata Property Act

  - Land Title Act

  - Land Act

  - Other

- See also the [ParcelMap BC Data Dictionary](#) for information on the physical data model

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Building Strata Parcels

- Parcel Class= Building Strata

- Mapping only outer extent of Building Strata plan (i.e. 2D)

- No PID assigned to Parcel polygon

- Associated Strata Lots (PIDs) captured in Shared Geometry table

- For phased strata: Extent of current phase and remainder mapped

Building Strata Parcels

EPS7418
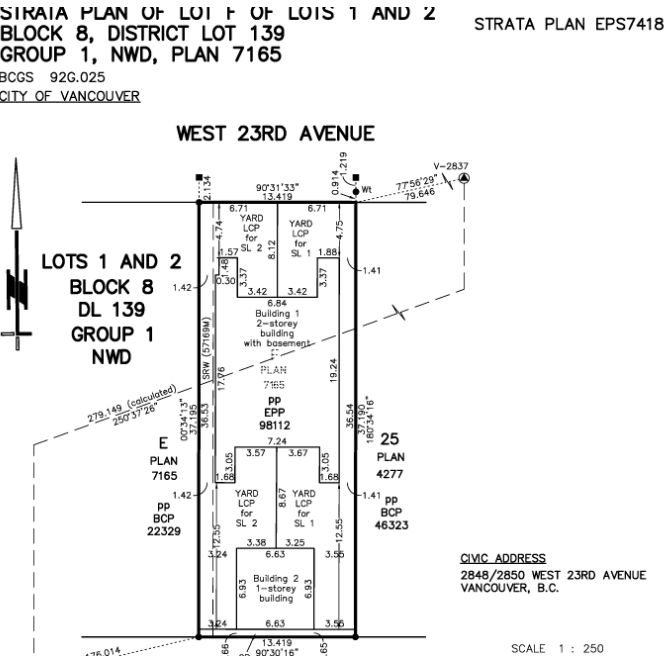
Representation in ParcelMap BC

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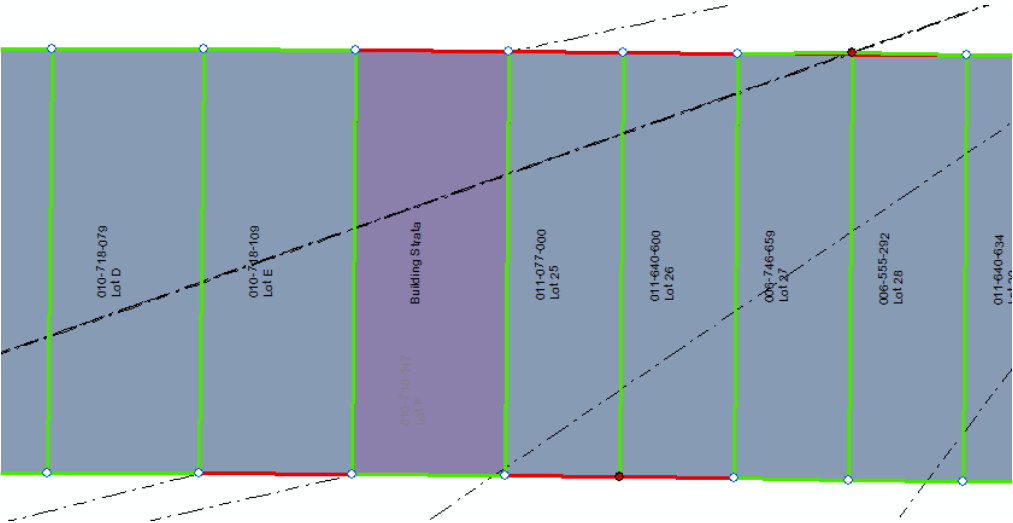
Building Strata Parcels

Parcel Attribute Table

Name *	PlanID		ParcelStatus	ParcelClass	OwnerType	LegalDescription	GeometrySource *
Building Strata	8268049	2	Active	Building Strata	Unknown	<Null>	Survey Plan Dataset

Linked by Plan ID

Shared Geometry Table

pmbcprod.pmbcowner.SharedGeometryParcel

linkedplanid	PID *	ParcelStatu	LegalDescription
8268049	313104	Active	STRATA LOT 2 DISTRICT LOT 139 GROUP 1 NEW WESTMINSTER DISTRICT STRATA PLAN EPS7418 TOGETHER WITH AN INTEREST IN THE COMMON PROPERTY IN PROPORTION TO THE UNIT ENTITLEMENT OF THE STR
8268049	313104	Active	STRATA LOT 1 DISTRICT LOT 139 GROUP 1 NEW WESTMINSTER DISTRICT STRATA PLAN EPS7418 TOGETHER WITH AN INTEREST IN THE COMMON PROPERTY IN PROPORTION TO THE UNIT ENTITLEMENT OF THE STR

Bare Land Strata Parcels

- Parcel Class= Bare Land Strata

- Every Strata Lot mapped individually (as well as the Common Property – see Common Ownership parcels)

- For phased strata: Extent of current phase and remainder mapped

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Bare Land Strata Parcels

EPS6975

Representation in ParcelMap BC

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Bare Land Strata Parcels

Parcel Attribute Table – Individual strata lots mapped

pmbcprod.pmbcowner.ParcelFabric_Parcels

PID *	PlanID	ParcelStatus	ParcelClass	OwnerType	LegalDescription
3128516	8169642	Active	Bare Land Strata	Private	STRATA LOT 6 DISTRICT LOT 19 NEWCASTLE DISTRICT STRATA PLAN EPS6975 TOGETHER WITH AN INTEREST IN THE COMMON P
3128511	8169642	Active	Bare Land Strata	Private	STRATA LOT 1 DISTRICT LOT 19 NEWCASTLE DISTRICT STRATA PLAN EPS6975 TOGETHER WITH AN INTEREST IN THE COMMON P
3128512	8169642	Active	Bare Land Strata	Private	STRATA LOT 2 DISTRICT LOT 19 NEWCASTLE DISTRICT STRATA PLAN EPS6975 TOGETHER WITH AN INTEREST IN THE COMMON P
3128513	8169642	Active	Bare Land Strata	Private	STRATA LOT 3 DISTRICT LOT 19 NEWCASTLE DISTRICT STRATA PLAN EPS6975 TOGETHER WITH AN INTEREST IN THE COMMON P
3128514	8169642	Active	Bare Land Strata	Private	STRATA LOT 4 DISTRICT LOT 19 NEWCASTLE DISTRICT STRATA PLAN EPS6975 TOGETHER WITH AN INTEREST IN THE COMMON P
3128515	8169642	Active	Bare Land Strata	Private	STRATA LOT 5 DISTRICT LOT 19 NEWCASTLE DISTRICT STRATA PLAN EPS6975 TOGETHER WITH AN INTEREST IN THE COMMON P

Parcel Attribute Table: Common Ownership

pmbcprod.pmbcowner.ParcelFabric_Parcels

PID *	PlanID	ParcelStatus	ParcelClass	OwnerType	LegalDescription
<Null>	8169642	Active	Common Ownershi	Unknown	<Null>

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Common Ownership Parcels

- Parcel Class = Common Ownership
- Bareland Strata Common Property or Common Lot
- Ex: Clubhouse or courtyard

- "Proportionate Interest" in Common property related via the Common Ownership table – Answers: "*Which PIDs share an interest in this parcel?*"

- Non-spatial table contains PIDs and Plan ID

Common Ownership Attribute Table

Linked by Plan ID

Parcel Attribute Table

PID *	PlanID *	GlobalID *
31285121	8169642	{EDAFAE68-3504-4691-A4C7-2E73B9F0AF34}
31285147	8169642	{4D57825B-B88F-4576-8E91-2DDD14C48263}
31285163	8169642	{90085FF1-DD0F-457F-B521-8524EEDA155B}
31285112	8169642	{19BF7599-D5D4-496B-A48E-7B9CEA59EA5A}
31285139	8169642	{F187FBEC-5C5C-4EBF-9739-6EEB6ABAA20E}
31285155	8169642	{0685CFEC-B8B7-45A1-B196-B94D943ABE82}

pmbcprod.pmbcowner.ParcelFabric_Parcels

	PID *	PlanID	ParcelStatus	ParcelClass	OwnerType
	<Null>	8169642	Active	Common Ownershi	Unknown

Air Space Parcels

- Parcel Class = Air Space

- Not mapped in 3D: Parent parcel polygon duplicated as per number of Air Space lots (which sometimes may become Building Strata…)

- Always a Remainder parcel, too!

- Each lot assigned a PID

Parcel Attribute Table

ErrorMsg	Name *	PID *	PlanID	Accuracy	ParcelStatus	ParcelClass	OwnerType	LegalDescription
<Null>	031207219	31207219	7883236	0.02m / 1 in 20,000	Active	Air Space	Private	AIR SPACE PARCEL 1 SECTION 10 TOWNSHIP 1 NEW WESTMINSTER DISTRICT AIR SPACE PLAN EPP101478
<Null>	031207227	31207227	7883236	0.02m / 1 in 20,000	Active	Air Space	Private	AIR SPACE PARCEL 2 SECTION 10 TOWNSHIP 1 NEW WESTMINSTER DISTRICT AIR SPACE PLAN EPP101478

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Air Space Parcels

EPP101478

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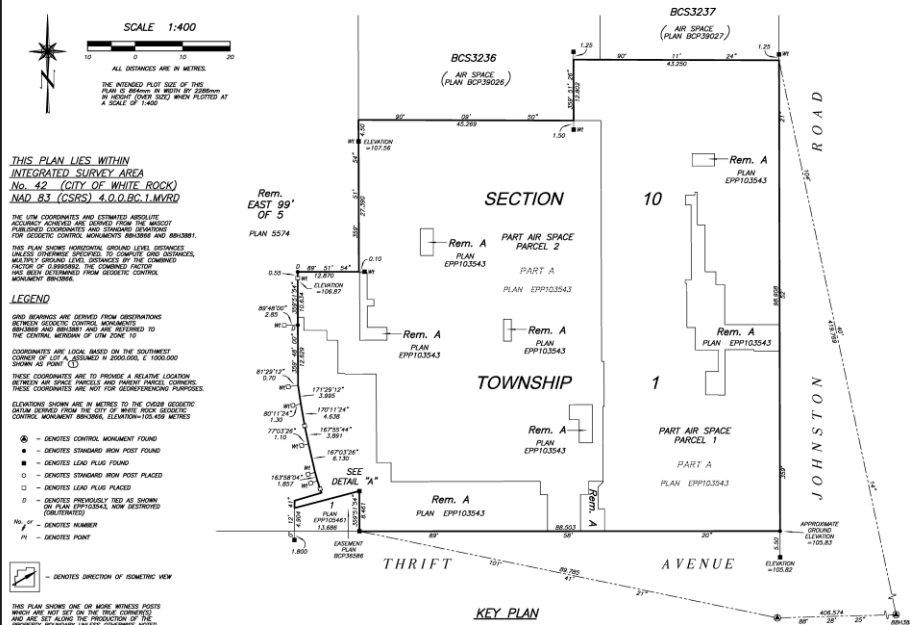
Interest Parcels

- Parcel Class = Interest

- Represents surveyed extent of a charge defined on a survey plan
- Ex. Easements, covenants and SRWs (over titled or untitled crown land)

- Interest parcels will overlap underlying titled parcels

- Name attribute distinguishes the types of interest

- 3 types mapped in ParcelMap BC: Interest, Statutory RoW and Volumetric Interest

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Interest Parcels

EPP68340
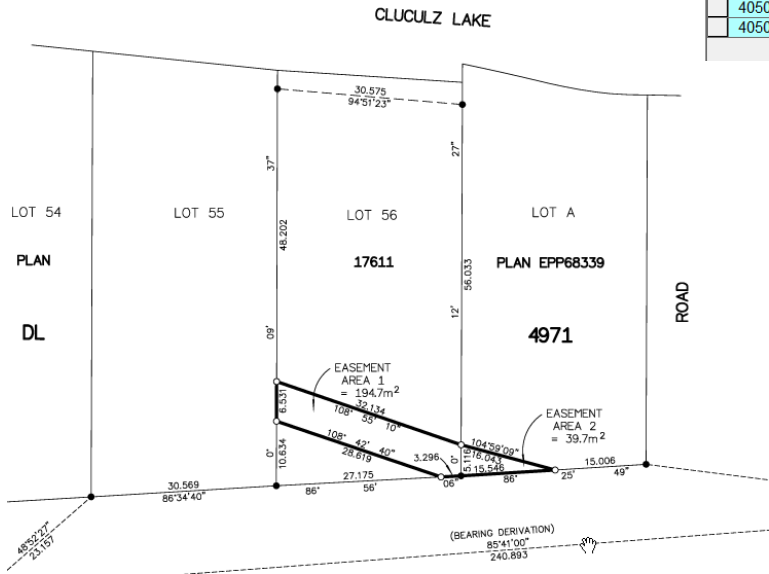
Parcel Attribute Table

PlanID	Name *	PID *	PIN *	ParcelStatus	Designation1	ParcelClass	OwnerType	LegalDescription
4050861	Interest	<Null>	901587	Active	<Null>	Interest	None	RIGHT OF WAY OVER DISTRICT LOT 4971,
4050861	Interest	<Null>	901587	Active	<Null>	Interest	None	RIGHT OF WAY OVER DISTRICT LOT 4971,

Representation in ParcelMap BC

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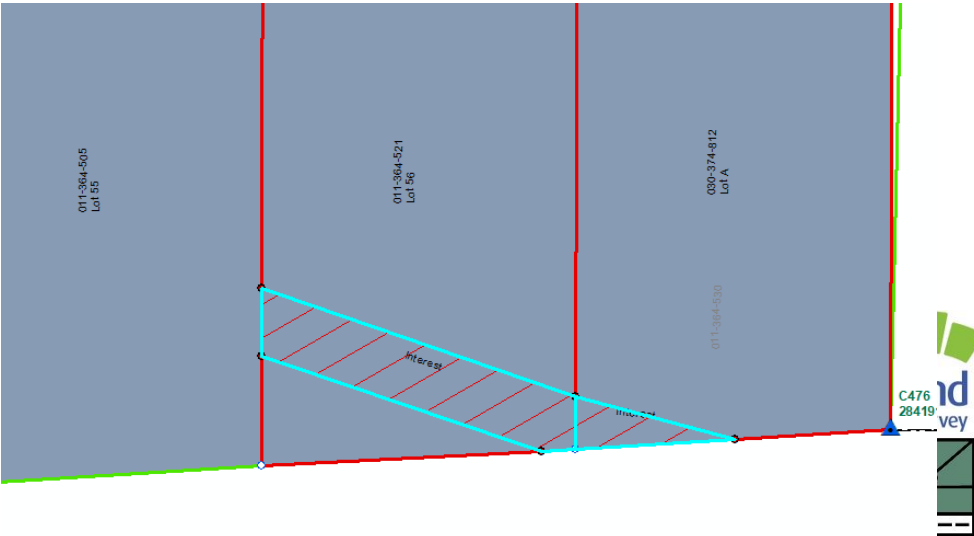
Interest Parcels: Statutory RoW

- Map each Area A, B and C separately (& PIDs associated if/when charges registered)

EPP107256

PlanID	Name *	PID *	PIN *	ParcelStatus	Designation1	ParcelClass	OwnerType
8247250	Statutory RoW	<Null>	<Null>	Active	Area C	Interest	Unknown
8247250	Statutory RoW	<Null>	<Null>	Active	Area A	Interest	Unknown
8247250	Statutory RoW	<Null>	<Null>	Active	Area B	Interest	Unknown

Representation in ParcelMap BC

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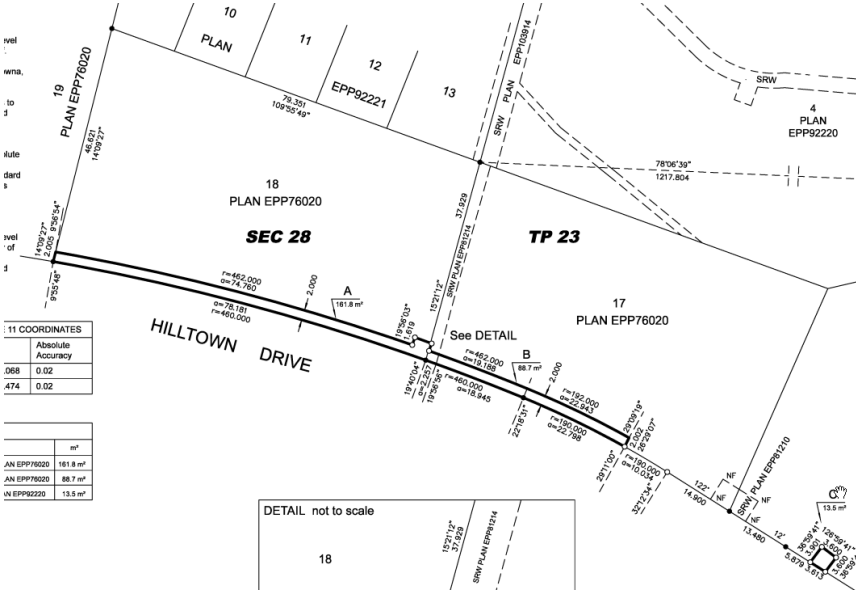
Interest Parcels: Volumetric Interest
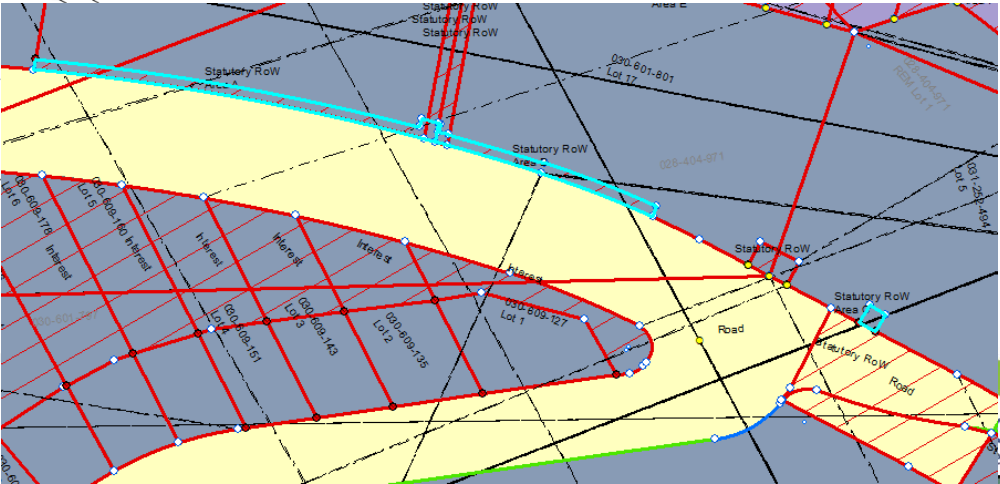
- Map extent of the underlying parent parcel (i.e. in 2D)

EPP108016

	PlanID	Name *	PID *	PIN *	ParcelStatus	Designation1	ParcelClass	OwnerType	
	8264850	Volumetric Interest	<Null>	<Null>	Active	<Null>	Interest	Unknown	

pmbcprod.pmbcowner.ParcelFabric_Parcels

Representation in ParcelMap BC
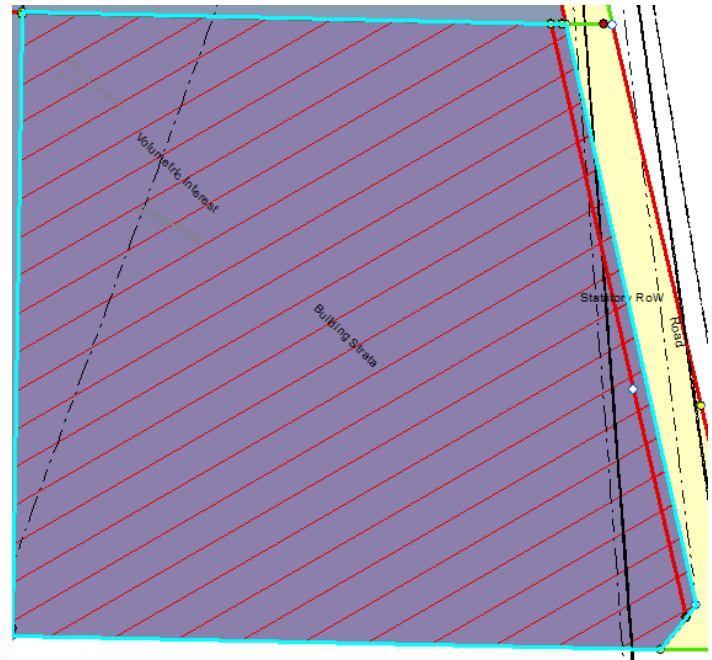
Designation 1, 2 and 3 Fields

See **What are Designations 1, 2 and 3?** for more details.

Summarizes survey divisions from the legal description to uniquely identify the location of a parcel in survey system - *aka "Lot, Parcel, Block"*

Field	Definition	Subdivided	Unsubdivided
Designation 1	The smallest division of lands in the legal description of the parcel.	Parcel or Lot	Quadrant or Block
Designation 2	The second smallest division of lands in the legal description of the parcel.	Block	District Lot or Section
Designation 3	The third smallest division of lands in the legal description of the parcel.	District Lot or Section	Township and/or Range

Basic Rules:

For titled Parcels (PID): Auto populated using short legal description from land title register.

For crown parcels (PIN): Manually populated using set of approved rules.

Road and Park parcels (with no PID /PIN): No Designation values populated.

SRW parcels (with no PID /PIN): Designation 1 populated with "Area *X*" as shown on survey plan.

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Parcel Ownership Types

The OwnerType attribute in ParcelMap BC describes the **generalized ownership type classification based on registration of title for the parcel** (or lack thereof...) via one of 9 classes.

- Details on how is Owner Type assigned in ParcelMap BC including the relationship to Parcel Class

- *Reference*: ParcelMap BC's "Owner Type" vs ICF's "Ownership Class"

    Swipe Map Sample and WebMap resources.

Parcels By Owner Type

- Private
- First Nations
- Federal
- Crown Provincial
- Crown Agency
- Municipal
- Mixed Ownership
- None
- Unknown

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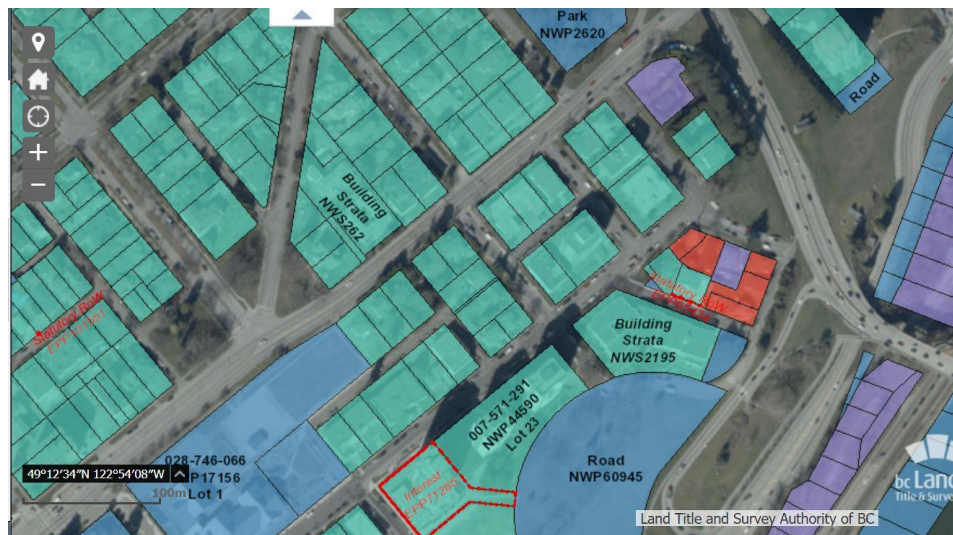
ParcelMap BC Data Products

Summary of **ParcelMap BC Data Products & Uses**

Parcel Fabric Extract is AOI based and includes all entities:
- Parcel Polygons
- Parcel Points
- Parcel Lines
- Shared Geometry Table ("Building Strata Lots")
- Common Ownership Table ("Shared Interest Parcels")
- PID <-> JUROL Table
- Plans Table
- Control Points

Province-wide Parcel Snapshot is a province-wide subset

Temporal Products:

Fabric Spatial Improvements (aka "Change Vectors")

Real-World Changes (aka Parcel "Adds, Edits & Deletes")

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Getting help with ParcelMap BC

Where to find Adopter Resources?

Key Concepts:

      Adoption Resource Summary

      Spatial Alignment Resources

      Information Model Alignment Resources

      Transition Planning Resources

      Collaboration Resources

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Resources for Adopting ParcelMap BC

Many **Adopter Resources** are available tied to the "transition" phase

Resources for Adopting ParcelMap BC

LTSA and ICI Society offer a number of resources and tools to allow organizations to adopt ParcelMap BC fabric as their base cadastre for operations. The following are the resources currently available.

Assessing Resources   +

Transitioning Resources   +

Collaborating Resources   +

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Adoption Resources & Tools

- See [Resources and tools to assist organizations transition to ParcelMap BC adoption](#) for more information.

- [Spatial Alignment Resources](#)

  - Data Alignment Workflow Package (DAWp)

  - Cadastral Ties for Spatial Improvement

  - Third Party Datasets

- Information Model Alignment Resources

  - [ParcelMap BC Data Products and Descriptions](#)

  - [X-Ray ArcGIS Catalog Add-In](#)

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Adoption Resources & Tools

- Transition Planning Resources

  o [ParcelMap BC Transition Project Management Guide](#)

  o [ParcelMap BC Transition Planning Situation Assessment Template](#)

  o [ParcelMap BC Transition Planning Executive Summary PowerPoint Deck](#)

  o [ParcelMap BC Transition Planning - A Case Study on the Large Municipality Focus Group](#)

- Collaboration Resources

  o [ICI Society Collaboration Forum](#) *(Requires ICI Society member credentials)*

  o [ParcelMap BC Adoption Working Group](#)

  o [Implementation Partners](#)

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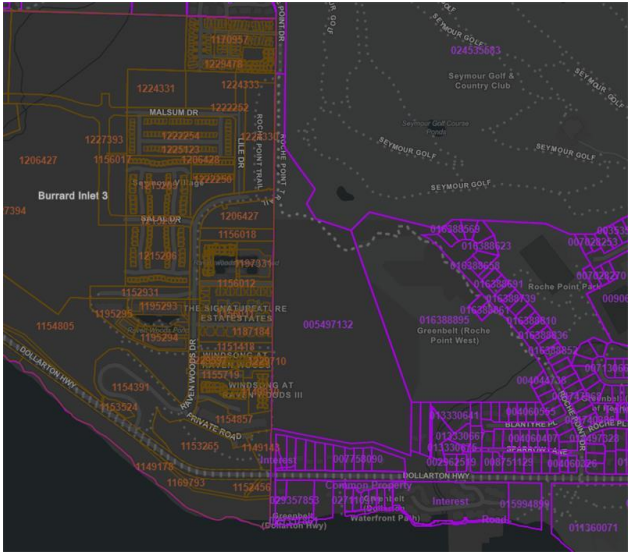
Using Other Data with ParcelMap BC

Agricultural Land Commission's [Agricultural Land Reserve](#) is aligned with ParcelMap BC

BC Assessment's [Assessment Fabric](#) is highly derived from & aligned with ParcelMap BC

Esri Canada's Public [Canada Lands Parcel Mapping](#)
- Available as a feature service: December 2020
- Seamless, up-to-date coverage of Canada Lands Digital Cadastral Data (First Nations, National Parks, etc…)
- Updates from NRCan weekly compiled into service

- NRCan and LTSA Operations starting to work together to improve identified alignment issues

Dataset	Organization	Description	Update Frequency
Agricultural Land Reserve ☐	Agricultural Land Commission ☐	The spatial representation for the boundary of an Agricultural Land Reserve, which is a parcel of land maintained for agricultural use.	Quarterly - end of: Jan, Apr, Jul and Oct.
BC Assessment Fabric ☐	BC Assessment ☐	An ownership-based spatial representation of the assessment roll in British Columbia.Different from a legal fabric, there may be many legal lots (as represented in ParcelMap BC) in one assessment parcel. Dataset access requires ICI Society credentials.	Weekly (On Sunday)

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Wrap-Up & Thanks!

Group Feedback?

Open Questions?

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