



# ParcelMap BC Adoption Working Group

## Workshop #22

October 21<sup>st</sup> 2020

9:30am to 12:00 pm

Remote Session

**Brian Greening**

AWG Chair

Director, ParcelMap BC Products, LTSA

**Steve Mark**

AWG Vice-Chair

Stakeholder Engagement Coordinator  
ICI Society

# Agenda

<b>Welcome / Opening Remarks</b>	9:30 am
<b>Housekeeping</b> <ul style="list-style-type: none"> <li>Workshop Survey: Results &amp; Next Steps</li> <li>Sub-Group Updates: <ul style="list-style-type: none"> <li>Team Land Records: Updates</li> <li>Team Alignment: Updates</li> <li>Team Province (GeoBC): New Lead Introduction &amp; Updates</li> </ul> </li> <li>Implementation Partners: Updates</li> </ul>	9:35 am
<b>ParcelMap BC Status Update</b> <ul style="list-style-type: none"> <li>Operations Status &amp; Projects / Initiatives Update</li> <li>Spatial Improvements (See <a href="#">Completed &amp; Targeted Areas</a> and latest <a href="#">Assessment</a>)</li> <li>Adopter Status Update (See <a href="#">Latest Report</a>)</li> </ul>	10:00 am
<b>Large Municipality Focus Group (LMFG): Deep Dive</b> <ul style="list-style-type: none"> <li>Review &amp; Summary (1 hr) <ul style="list-style-type: none"> <li>Approach</li> <li>Findings</li> <li>Patterns of Adoption</li> <li>Next steps</li> </ul> </li> <li>Tying LMFG to the AWG (30 min) <ul style="list-style-type: none"> <li>Aligning of Findings w/Issues Log</li> <li>AWG discussion / feedback</li> </ul> </li> </ul>	10:15 am
<b><a href="#">Adopter Issues Log:</a></b> <ul style="list-style-type: none"> <li>Triage / Issues Update</li> </ul>	11:45 am
<b>Future Workshops:</b> <ul style="list-style-type: none"> <li>Workshop #23 – November 18<sup>th</sup> 2020: <ul style="list-style-type: none"> <li>Session Focus / Topic(s)</li> </ul> </li> </ul>	11:50 am
<b>Open Questions, Feedback &amp; Wrap-Up</b>	11:55 am

# AWG Housekeeping

## Workshop Survey

- Results & Next Steps

## Sub-Group Updates

- Team Province (GeoBC): New Lead Introduction & Updates
- Team Land Records: Updates
- Team Alignment: Updates

## Implementation Partners: Updates

# Survey of Workshops to Support Use of ParcelMap BC

## Purpose:

To help plan and prioritize bringing valuable content to support organizations with making the most of what ParcelMap BC has to offer.

- Survey designed by LTSA and distributed by ICI Society
- 187 members polled
- 38 responses collected – approximately 20% response rate

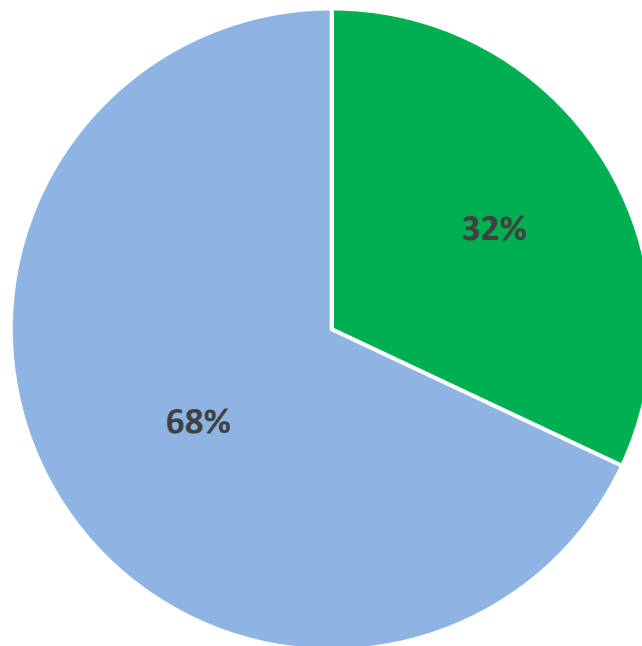
# Survey of Workshops to Support Use of ParcelMap BC

## 4 main questions were asked:

1. Contact Information
2. Prioritize your interest based on the applicability of the workshop in helping you use ParcelMap BC in your organization:
  - a. Land Records Workshop – Using Tempest software to link to spatial information conducted by CentralSquare Technologies.
  - b. Data Alignment Workshop – Using the Data Alignment Workflow Tools developed by Esri Canada.
  - c. ParcelMap BC Deep Dive - Understanding the data products and workflows being published by ParcelMap BC.
  - d. Not Interested
3. Would a nominal fee for any workshop dissuade your attendance? (Note: Workshops will be at least partially subsidized by the AWG)
4. Are there other workshop topics that may help you use ParcelMap BC in your organization?

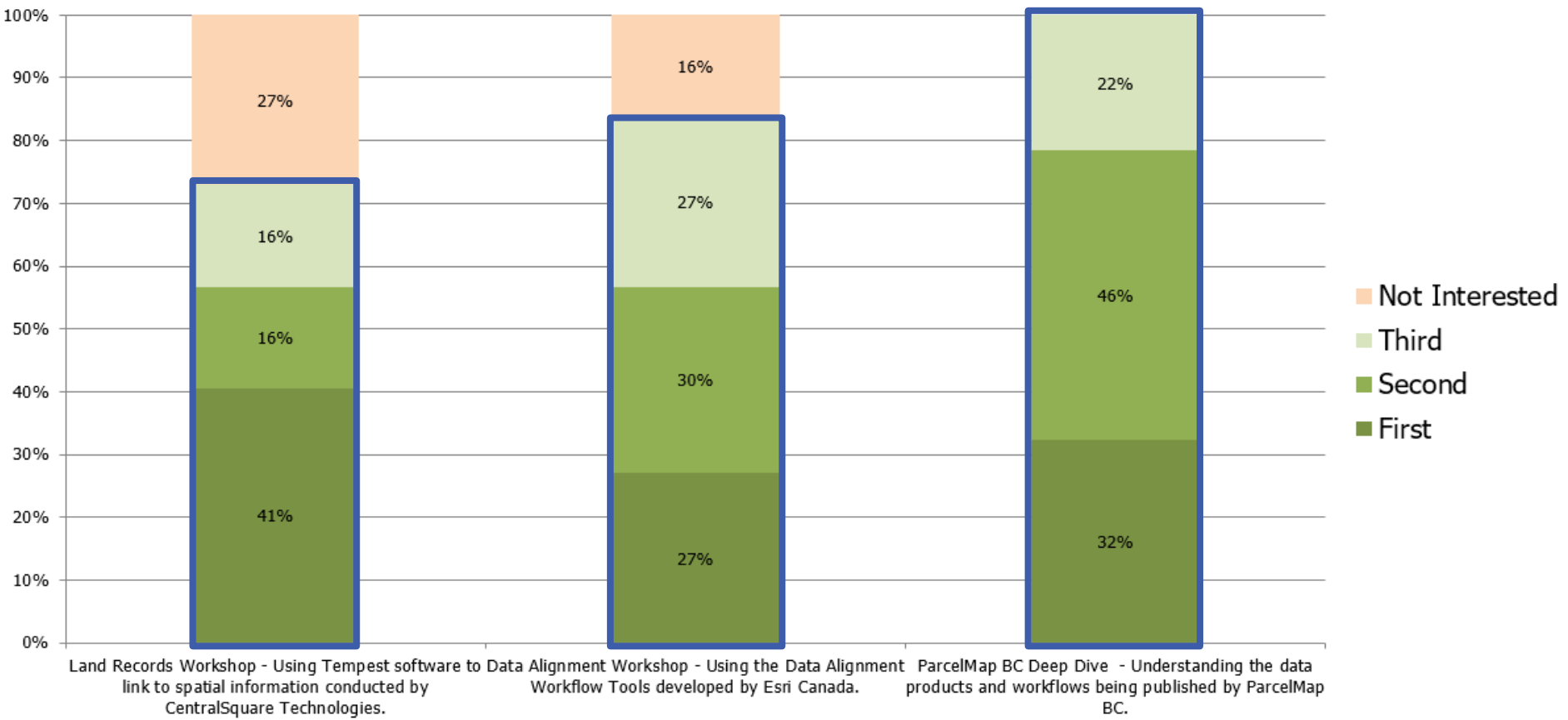
# Respondents Adoption Status

12 Adopted  
26 Not-Adopted

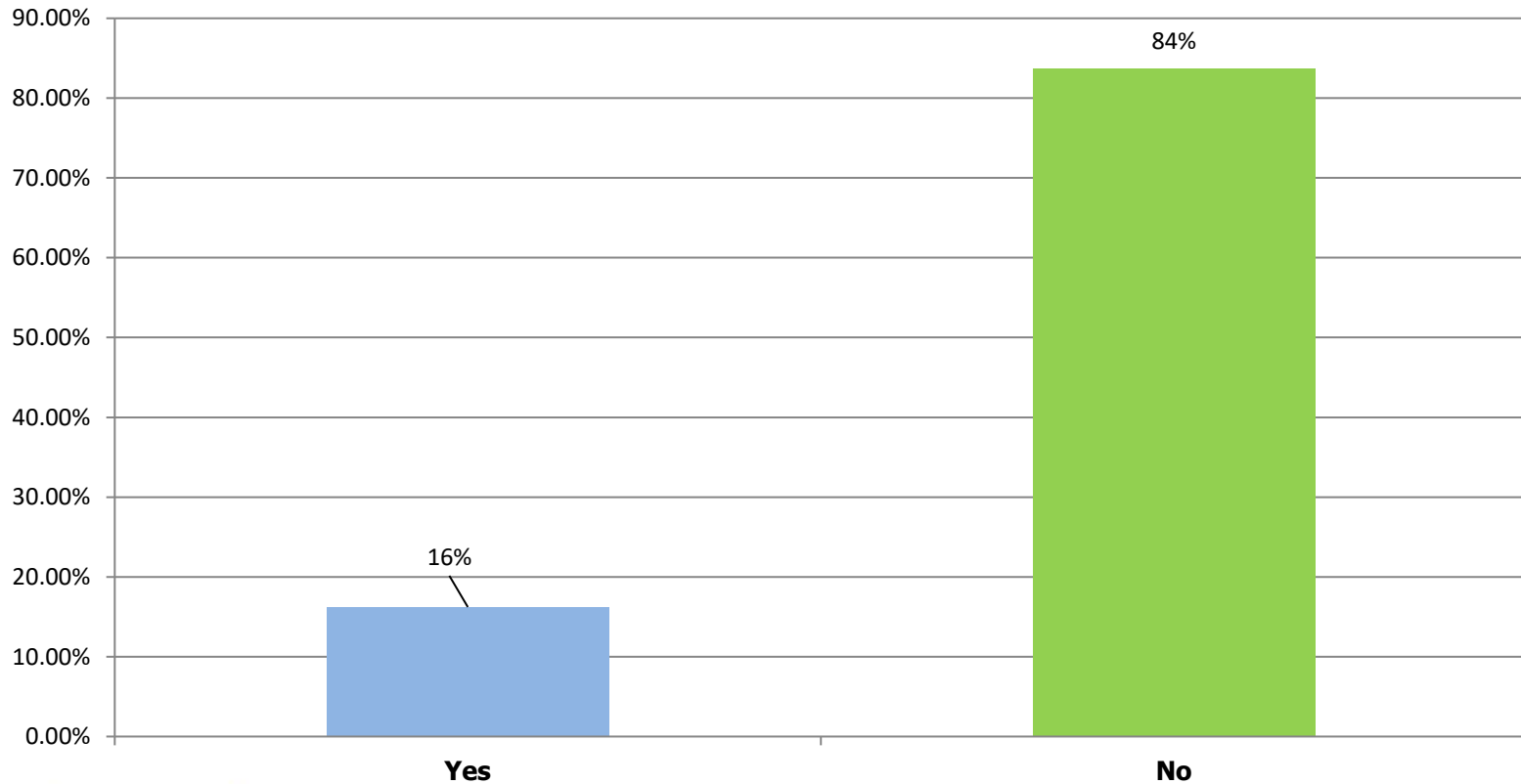


■ Adopted ■ Not-Adopted

# Q2. Prioritize the workshops according to your interest:



### Q3. Would a nominal fee for any workshop dissuade your attendance?



# Are there other workshop topics that may help you use ParcelMap BC in your organization?

"I'd like to understand how other communities are integrating PMBC. I'd like a better opportunity for shared learning among peers (i.e. local gov). "

"yup. use cases and examples for adjoining data - building related tables using PMBC primary keys - how have folks who've adopted this dealt with this and maintain/manage on-going..."

"Understanding the Parcel Map data model for dummies - roll number, PID, stratas, mobile homes, docks, etc..."

"Sharing and documentation on scripts to update/replace parcel data on a defined schedule."

"We use CityView not Tempest, as do many around the Province, so something related to integrating with that would be useful."

"Workflows for Vadim data. Sharing experience."

# Sub-Group Updates

## Team Province (GeoBC)

- New ICF Retirement Working Group Lead – Introduction to Jay Bradley
- June 24th Workshop: Actioning Discussion Items
- Next Steps & Other Updates

## Team Land Records

- Updates

## Team Alignment

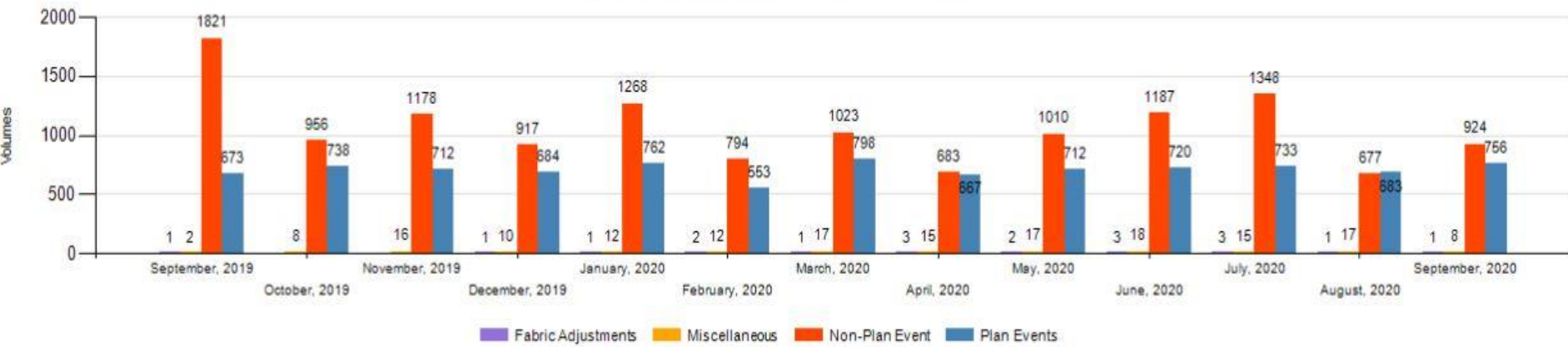
- Updates

## Implementation Partners

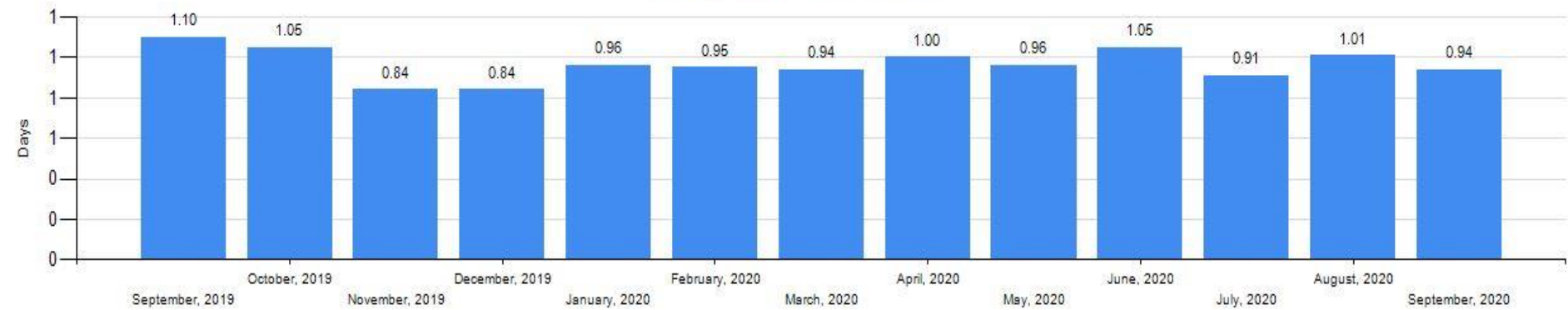
- Updates

# ParcelMap BC Ops: Current Stats

Workitem Completed Volumes - Previous 13 months



Work Item Turnaround - Previous 13 months



# ParcelMap BC Ops: Current Stats

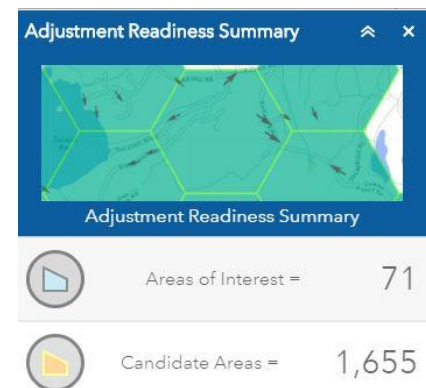
**Spatial Improvements:** Latest assessment to Oct. 13<sup>th</sup>, 2020

Targeted:

Completed (***Latest*** only – full list [here](#)):

AREA OF INTEREST	TARGET MONTH	PITT MEADOWS	July 20, 2020
BLUE SPRINGS	Done <del>October 2020</del>	STAVE LAKE	July 27, 2020
BRACKENDALE	October 2020	NEW DENVER	August 6, 2020
LOON LAKE	October 2020	CASSIDY	August 26, 2020
PRESSY LAKE	October 2020	CRANBROOK - PART 1	September 18, 2020
ARMSTRONG AND SURROUNDING AREA	October 2020	JORDAN RIVER AND SURROUNDING AREA	September 23, 2020

**Note:** To date, the Spatial Improvements Team has adjusted over 110 000 parcels with a combined total area representing 2833 sq. km of the Province.



# Active Road Parcels Project

## Background:

During the build of PMBC, active PIDs that were identified as 'road' through assessment by the LTSA were excluded under the premise that they would be mapped later. This project seeks to represent those PIDs in ParcelMap BC that were initially excluded.

## Operational Update:

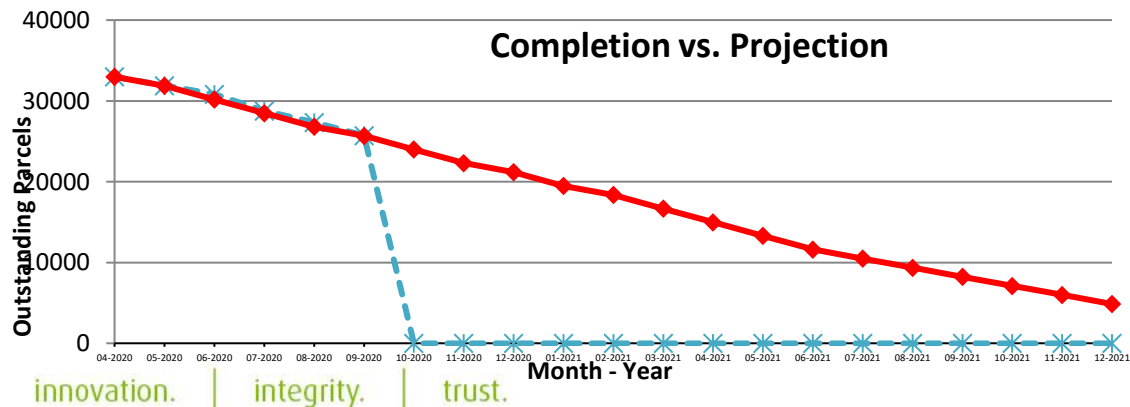
Month	Total Completed	Total Outstanding
May-20	1100	31900
Jun-20	1060	30840
Jul-20	2071	28769
Aug-20	1415	27354
Sep-20	1627	25727

- Initial Projection assumes ~33000 'Titled Roads' initially.
- Estimated completion date April, 2022.



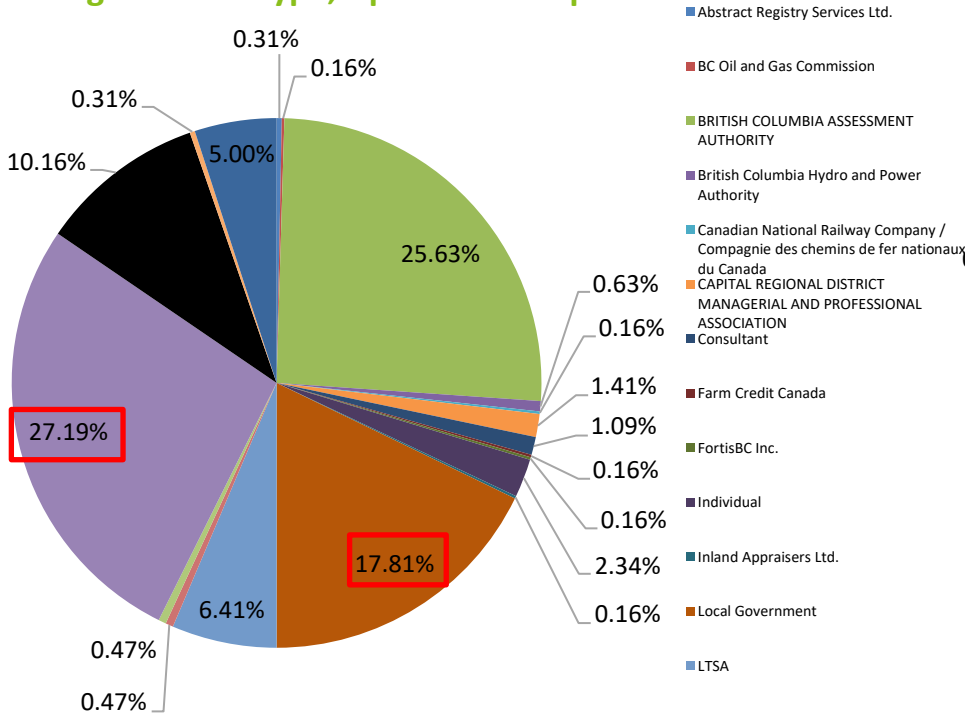
016-021-584	
Parcel Details	
Parcel Identifier (PID)	
Parcel Identification Number (PIN)	
Parcel Type	
Plan Number	
Regional District	
Municipality	
Owner Type	
Last Modified Date	
016-021-584	
Road	
VAP774	
Metro Vancouver Regional District	
Vancouver, City of	
Municipal	
2020-06-14	

- Remain  
Titled  
Roads
- Initial  
Projec  
tion -  
1.5  
FTE

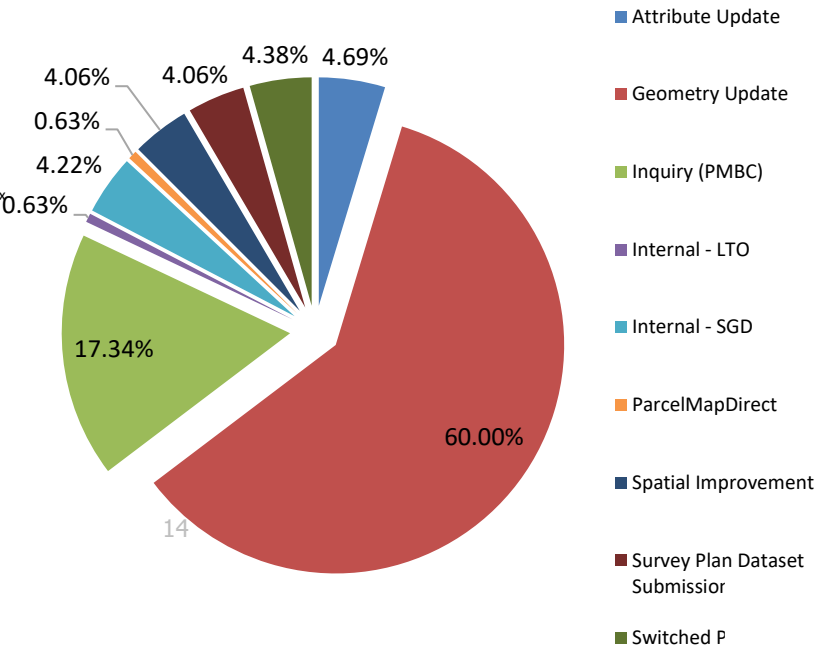


# ParcelMapBC: Tier 2 Customer Support

Organization Type, April 2020 - September 2020



Support Type, April 2020 to September 2020



# Adopter Dashboard: September 30<sup>th</sup> 2020 Footprint

## Current Adopters (59):

**NEW** Local Governments

**NEW** Other Adopters

District of Lake Country

Full list available [here](#)

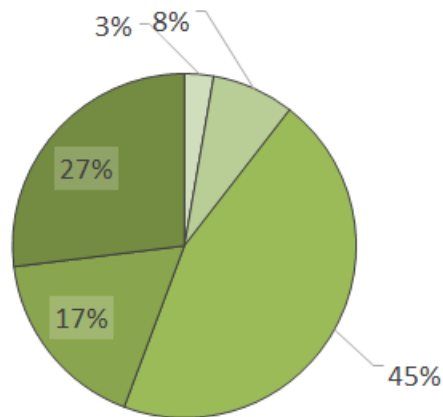
**LIVE map**

Green = Adopted  
Blue = Transitioning

innovation. | integrity. | trust.



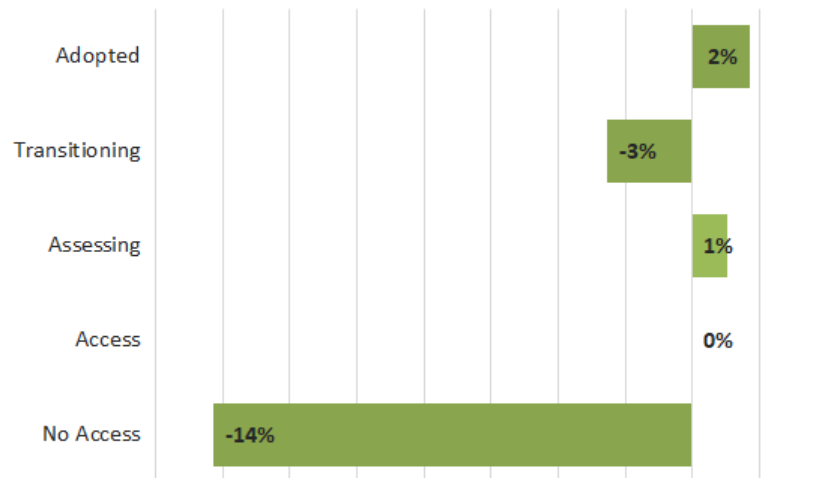
# Adopter Dashboard: September 30<sup>th</sup> 2020 Report



## ParcelMapBc

Adopter Groups by State	No Access	Access	Assessing	Transitioning	Adopted	Total
Local Governments using ICF	4	1	24	4	39	72
Provincial Groups using ICF	0	0	4	2	2	8
Local Governments who Self Maintain	1	15	63	27	13	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	1	1	0	2
	6	17	99	38	59	219

Full details [here](#)



# Large Municipality Focus Group (LMFG): Deep Dive

## Review & Summary (1 hr)

- Approach
- Findings
- Patterns of Adoption
- Next steps

## Tying LMFG to the AWG (30 min)

- Aligning of Findings w/Issues Log
- AWG discussion / feedback

# LMFG Review and Summary: Participants

# Large Municipality Focus Group:

## Top 15 Municipalities by Population in BC

	Name	Status	Regional District	2016 Census of Population		
				Population (2016)	Land area (km <sup>2</sup> )	Population density
1	<a href="#">Vancouver</a>	City	<a href="#">Metro Vancouver</a>	631,486	114.97	5,492.6/km <sup>2</sup>
2	<a href="#">Surrey</a>	City	<a href="#">Metro Vancouver</a>	517,887	316.41	1,636.8/km <sup>2</sup>
3	<a href="#">Burnaby</a>	City	<a href="#">Metro Vancouver</a>	232,755	90.61	2,568.8/km <sup>2</sup>
4	<a href="#">Richmond</a>	City	<a href="#">Metro Vancouver</a>	198,309	129.27	1,534.1/km <sup>2</sup>
5	<a href="#">Abbotsford</a>	City	<a href="#">Fraser Valley</a>	141,397	375.55	376.5/km <sup>2</sup>
6	<a href="#">Coquitlam</a>	City	<a href="#">Metro Vancouver</a>	139,284	122.30	1,138.9/km <sup>2</sup>
7	<a href="#">Kelowna</a>	City	<a href="#">Central Okanagan</a>	127,380	211.85	601.3/km <sup>2</sup>
8	<a href="#">Langley</a>	District municipality	<a href="#">Metro Vancouver</a>	117,285	308.03	380.8/km <sup>2</sup>
9	<a href="#">Saanich</a>	District municipality	<a href="#">Capital</a>	114,148	103.78	1,099.9/km <sup>2</sup>
10	<a href="#">Delta</a>	City	<a href="#">Metro Vancouver</a>	102,238	180.20	567.4/km <sup>2</sup>
11	<a href="#">Nanaimo</a>	City	<a href="#">Nanaimo</a>	90,504	90.76	997.2/km <sup>2</sup>
12	<a href="#">Kamloops</a>	City	<a href="#">Thompson-Nicola</a>	90,280	299.25	301.7/km <sup>2</sup>
13	<a href="#">North Vancouver</a>	District municipality	<a href="#">Metro Vancouver</a>	85,935	160.76	534.6/km <sup>2</sup>
14	<a href="#">Victoria</a>	City	<a href="#">Capital</a>	85,792	19.47	4,406.4/km <sup>2</sup>
15	<a href="#">Chilliwack</a>	City	<a href="#">Fraser Valley</a>	83,788	261.65	320.2/km <sup>2</sup>

# LMFG Review and Summary: Participants

LMFG Organization	LMFG Team Members
<b>Project Management and Technical Team</b>	
<ul style="list-style-type: none"> <li>Land Title and Survey Authority of BC</li> </ul>	<ul style="list-style-type: none"> <li>Brian Greening, Director, ParcelMap BC Products [BG]</li> <li>Irshad Jamal, Customer Support Specialist, Parcel Fabric Operations [IJ]</li> </ul>
<ul style="list-style-type: none"> <li>Spatial Vision Group</li> </ul>	<ul style="list-style-type: none"> <li>Bill Johnstone, Principal Consultant [WMJ]</li> <li>John Samulski, Principal Consultant, Rabbitwerx Consulting [JCS]</li> </ul>
<ul style="list-style-type: none"> <li>City of Kamloops</li> </ul>	<ul style="list-style-type: none"> <li>Adam Chadwick, GIS Manager</li> </ul>
<b>Stakeholder Organizations</b>	
<ul style="list-style-type: none"> <li>City of Burnaby</li> </ul>	<ul style="list-style-type: none"> <li>Chad Huntington, Manager, GIS and Engineering Systems</li> <li>Jenny Li, Supervisor, Business Info Systems</li> <li>Chris Tait, GIS Technician</li> <li>Andrew Yao, Planning Analyst</li> </ul>
<ul style="list-style-type: none"> <li>City of Surrey</li> </ul>	<ul style="list-style-type: none"> <li>Bill McKay, GIS Manager</li> <li>Elizabeth Mittelstaedt, GIS Analyst</li> </ul>
<ul style="list-style-type: none"> <li>City of Vancouver</li> </ul>	<ul style="list-style-type: none"> <li>Martin Tilt, GIS Technical Team Lead</li> <li>Rob Glass, British Columbia Land Surveyor</li> </ul>
<ul style="list-style-type: none"> <li>District of North Vancouver</li> </ul>	<ul style="list-style-type: none"> <li>Krista Heinrich, Section Manager, Business Applications</li> </ul>
<ul style="list-style-type: none"> <li>Township of Langley</li> </ul>	<ul style="list-style-type: none"> <li>Derik Woo, Manager, Geomatics Services</li> <li>Kerrie-Anne Martin, GIS Technician II</li> </ul>

# LMFG Review and Summary: Approach

Month / Date	Activity	LMFG Participant					Management / Technical Team
		City of Burnaby	City of Surrey	City of Vancouver	District of North Vancouver	Township of Langley	LTA, Spatial Vision Group, A. Chadwick (kamloops)
April / May 2020	LMFG scope definition and planning.						•
May 2020	Invitations to participate / responses	•	•	•	•	•	•
May 2020	Team preparation for kick-off session.						•
June 2, 2020	Kick-Off Session	•	•	•	•	•	•
June 2020	Participants complete worksheets, analyse their parcel fabrics using X-Ray	•	•	•	•	•	
June 2020	Compilation of participant inputs						•
July 6, 2020	Preliminary Findings Review Session	•	•	•	•	•	•
July 2020	Prepare for detailed 1-on-1 interviews						•
July 27, 2020	1-on-1 Interview			•			•
July 29, 2020	1-on-1 Interview					•	•
July 29, 2020	1-on-1 Interview		•				•
August 10, 2020	Review meeting with Adam Chadwick						•
August 12, 2020	1-on-1 Interview				•		•
August 19, 2020	1-on-1 Interview	•					•
August	Compilation and development of draft report (findings and transition plan)						•
August 26, 2020	1-on-1 Follow-Up Session			•			•
August 26, 2020	1-on-1 Follow-Up Session					•	•
August 26, 2020	1-on-1 Follow-Up Session		•				•
September 18, 2020	1-on-1 Follow-Up Session				•		•
September 22, 2020	1-on-1 Follow-Up Session	•					•
September-October 2020	Finalize draft reports (Findings and Transition Plans)						•
October 20, 2020	Final Group Session	•	•	•	•	•	•
October 2020	Close-out activities and report delivery						•

# Observations

- Key support on lessons learned from Adam Chadwick
- High level of engagement by the LMFG participants and delegated staff

# LMFG Review and Summary: Approach

# Parcel Fabric Discovery Framework

## 0. Parcel Fabric Fundamentals

### A. Fundamentals

## 1. Primary Cadastre Data Comparison

### A. Attribute

### B. Spatial

## 2. Data Dependencies

### A. Dataflows

### B. System Integrations

### C. Other Datasets

## 3. Program Dependencies

### A. Programs

# Discovery:

## Parcel Fabric Fundamentals

ParcelMap BC Large Municipality Focus Group		Organization:	Name:
		<organization name>	<contact name>
Please bring the following information to the kick-off session relevant to your organization to support the round table discussion			
Topic	Description	Response	Notes
Parcel "Methodology"	What is the primary business identifier you use to uniquely identify parcels?	Possible answers are: Survey/Legal (PID-centric) Tax/Assessment (Folio-centric) Hybrid (mix of both) Other (describe...)	<additional text provided by organization>
Parcel Timelines	What parts of the parcel lifecycle do you represent: Only active legal parcels? "Proposed / planned" parcels? Historic (inactive) parcels?	Possible answers are: Active only Proposed & Active Proposed, Active & Historic Active & Historic Other (describe ...)	<additional text provided by organization>
Parcel Types	Besides basic lot boundaries what other types of parcels do you represent? Road parcels? Interests (SRW, easements, etc...)? Crown parcels? How do you map volumetric parcels (Building Strata and Airspaces)? Any other "things" as parcels?	<description provided by organization>	<additional text provided by organization>
High-level Dataflows	What information flows (sources) inform your parcel maintenance? Ex. LTSA feeds, BCA Feeds, Internal triggers (from who/where)? Other?	<description provided by organization>	<additional text provided by organization>
Top 3 Challenges	What are the biggest challenges with your current parcel maintenance workflows?	1) <challenge description> 2) <challenge description> 3) <challenge description>	<additional text provided by organization> <additional text provided by organization> <additional text provided by organization>

# Discovery Worksheet 1 of 3:

## Compare Municipal Fabric with ParcelMap BC

Section	Title & Description		Questions		
		Q #	Column Title	Description	Example
1	Primary Cadastre Data Comparison (Attribute and Spatial)				
In this worksheet, the schema of each Municipality’s primary cadastre layer (and relevant associated tables) will be compared to ParcelMap BC. Significant gaps between schemas will be identified and documented.					
	Q1-01	Primary Cadastre Data Issue Identifier (PK)	Unique identifier (DATAxx) for the gap / issue being described. Can be used in the next table.	DATA01	
	Q1-02	Primary Cadastre: Geodatabase Name	Name of your geodatabase that contains the primary cadastre data		
	Q1-03	Primary Cadastre: Feature Dataset Name	Name of feature dataset that contains the primary cadastre data		
	Q1-04	Primary Cadastre: Feature Class or Table Name	Name of feature dataset that contains the primary cadastre data. Table may be standalone.		
	Q1-05	Primary Cadastre: Attribute Name	Name of feature attribute / field.		
	Q1-06	Primary Cadastre: Domain	Name of domain.		
	Q1-07	ParcelMap BC: Feature Class / Table Name	Name of PMBC Feature Class or Table associatd with the gap / issue described below.		
	Q1-08	ParcelMap BC: Attribute Name	Name of PMBC Feature Class or Table associatd with the gap / issue described below.		
	Q1-09	ParcelMap BC: Domain Name	Include a domain name if applicable.		
	Q1-10	Gap Number	Simple sequential id		
	Q1-11	Gap Name	Name of the gap/issue that has been identified		
	Q1-12	Gap Description	Description of the gap/issue that has been identified		

# Discovery Worksheet 2 of 3:

Parcel Intake,

GIS Dataset  
Derivations,

Business System  
Integrations

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Section	Title & Description		Questions		
		Q #	Column Title	Description	Example
2	<b>Data Dependencies (Dataflows, System Integrations, Other Datasets)</b>				
	This worksheet focuses on data flows, systems integrations, and other dependencies that either directly or indirectly involve the primary cadastre data set, including derivative data sets or value-added artifacts (e.g. map production, reporting).				
		Q2-01	Data Dependency ID (PK)	Unique identifier, primary key (DEPxx)	DEP02
		Q2-02	Data Issue IDs (FK)	List of relevant primary cadastre issues from Table 1 above (DATAxx), 1 : many	DATA03, DATA06, DATA07
		Q2-03	Workflow Title	Workflow Title (2-3 words)	
		Q2-04	Workflow Description	Workflow description (1-2 sentences)	
		Q2-05	Workflow Type	Create / Maintain / QA / Disseminate / Report	
		Q2-06	Business Areas / Stakeholders	Which business areas / stakeholders affected?	
		Q2-07	Frequency	Daily / Weekly / Monthly / Quarterly / Annually / As required	
		Q2-08	Importance	Criticality of successfully executing the workflow (critical/high/med/low)	
		Q2-09	Task Complexity	Complexity of workflow (high/med/low)	
		Q2-10	Related System(s)	Interfaces / integrations with other systems required to support the workflow (list systems or NA)	Tempest, POSSE, CityWorks, other
		Q2-11	Integration Type	Application / Data	
		Q2-12	Integration Complexity	Complexity of integration(s) with cadastre data (high/med/low)	

# Discovery Worksheet 3 of 3:

## Program Dependencies

Section	Title & Description	Q #	Questions		
			Column Title	Description	Example
3	Program Dependencies				
<p>This component focuses on higher-level program dependencies which could influence the adoption of ParcelMap BC within each Municipality. Considerations include:</p> <ul style="list-style-type: none"> <li>a. Other related or dependent IT/GIS initiatives that may impact timing of ParcelMap BC adoption.</li> <li>b. Resource opportunities/constraints associated with adoption.</li> <li>c. Requirements for justification/business case to proceed with adoption.</li> </ul>					
		Q3-01	Program Dependency ID (PK)	Unique identifier, primary key (PROGxx)	PROG01
		Q3-02	Program / Initiative Name	Name of initiative / project	
		Q3-03			
			Relationship to Cadastre Data	Brief description of the relationship to cadastre data and ParcelMapBC adoption	
			Status	Planned / Approved / In Progress	
		Q3-04			
		Q3-05	Start Date	Planned or actual start date	
		Q3-06	Completion Date	Expected completion date	
		Q3-07	Resource Considerations	Key resources required (roles)	
			Priority Relative to ParcelMapBC Adoption	Higher / Lower / Equal	
		Q3-08	Approval requirements	Business Case, Charter, Other Justification?	

# Other Tools: X-Ray for ArcGIS / ArcGIS Pro

## Geodatabase Documentation

**Date:** Friday, November 06, 2015  
**Time:** 4:36:33 PM

## Summary Information and Links

[24 Feature Datasets and 263 Feature Classes](#)  
[1 Topology Dataset contained within Feature Datasets](#)  
[3 Geometric Network contained within Feature Datasets](#)  
[5 Rasters](#)  
[59 Tables \(Object Classes\)](#)  
[46 Relationship Classes](#)  
[302 Domains](#)

## Feature Datasets and Child Classes

[Address - Feature Dataset](#)

[AdditionalLocation - Simple](#)  
[AddressPoint - Simple](#)  
[SiteAddress - Simple](#)

[AdministrativeArea - Feature Dataset](#)

[AdministrativeAreaBoundaryLine - Simple](#)  
[CountyBoundary - Simple](#)  
[FederalAreaBoundary - Simple](#)  
[MunicipalBoundary - Simple](#)  
[NeighbourhoodBoundary - Simple](#)  
[PostalCodeBoundary - Simple](#)  
[ProvincialAreaBoundary - Simple](#)  
[ProvincialBoundary - Simple](#)  
[SchoolBoundary - Simple](#)  
[SchoolDistrictBoundary - Simple](#)

[CapitalPlanning - Feature Dataset](#)

[CIPPoints - Simple](#)  
[CIPPolygons - Simple](#)  
[CIPPolyLines - Simple](#)  
[CIPProjects - Simple](#)  
[CIPProjectsLocations - Simple](#)

## BridgePoint - FeatureClass

**Name** BridgePoint  
**ShapeType** Point  
**FeatureType** Simple  
**AliasName** Bridge Points  
**HasM** true  
**HasZ** true  
**HasAttachments** false  
**Description** A structure that allows people or vehicles to cross an obstacle such as a river or canal or railway etc.

Field	Data Type	Length	AliasName	Description	Domain	Default
GlobalID	GlobalID	38	GlobalID	A unique identifier.		
FACILITYID	String	50	Facility Identifier	The Facility Identifier		
NAME	String	255	Bridge Name	The name of the bridge		
BRIDGETYPE	String	50	Bridge Type	The type of bridge	<a href="#">BridgeType</a>	
BRIDGENUM	String	50	Official Bridge Number	The assigned bridge number		
BRIDGEDESIGN	String	50	Bridge Design	The design style of the bridge	<a href="#">BridgeDesign</a>	
TRAFFICTYPE	String	50	Traffic Type	The primary type of traffic allowed across the bridge	<a href="#">BridgeTrafficType</a>	
DESIGNLOAD	String	20	Design Load Rating	The bridge's design load rating		
SPANTYPE	String	50	Span Type	The type of bridge span	<a href="#">SpanType</a>	
SPANLENGTH	Double	8	Span Length	The length of the bridge span		
DECKTYPE	String	50	Deck Type	The material used to construct the bridge deck	<a href="#">BridgeDeckType</a>	
DECKTHICK	Double	8	Deck Thickness	The thickness of the bridge deck		
DOWELLENG	Double	8	Dowel Length	The length of the bridge dowel		
DOWELSIZE	SmallInteger	2	Dowel Size	The size of the bridge dowel		
INSTALLDATE	Date	8	Install Date	The date the bridge was installed or resurfaced		
CONDITION	String	50	Condition	The condition of the bridge	<a href="#">Condition</a>	
LNONSTR	SmallInteger	2	Lanes on Bridge	The number of lanes on bridge		
LNUNSTR	SmallInteger	2	Lanes Under Bridge	The number of lanes under bridge		
MEDIAN	String	5	Median on Bridge	A flag that indicates whether a median is present on the bridge	<a href="#">YesNo</a>	
APPWIDTH	Double	8	Approach Width	The width of the bridge approach		
NUMSPAN	SmallInteger	2	Number of Spans	The number of spans		
AVGTRAFFIC	Integer	4	Daily Traffic Volume	The daily traffic volume on the bridge		
YRTRAFFIC	Date	8	Year Traffic Counted	The year the traffic volume count was observed		
OWNEDBY	SmallInteger	2	Owned By	Indicates which organization owns the asset	<a href="#">AssetOwner</a>	
MAINTBY	SmallInteger	2	Managed By	Indicates which organization maintains the asset	<a href="#">AssetManager</a>	
LASTUPDATE	Date	8	Last Update Date	The date the feature was last updated		
LASTEDITOR	String	50	Last Editor	The person who performed the last update		

## Building - FeatureClass

# LMFG Review and Summary: Findings

# Deliverable: Situation Assessment and Transition Plan: Five Reports



ParcelMap BC Adoption:  
Large Municipality Focus Group

## Situation Assessment and Parcel Map BC Transition Plan for <<name of muni>>

<<Last Check Before Split & Send>>

Date: October 18, 2020  
Document Version: V29

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Land Title and Survey Authority of BC  
ParcelMap BC Adoption

Situation Assessment and Transition Plan for  
<municipality name>

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(i)

# Chapter 2 - Findings

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**Focus:**  
Tables that drive  
the estimates in  
Chapter 3

Land Parcel

Parcel Intake /  
Update  
(Worksheet 2)

**Parcel Baseline:**  
“Survey/Legal” (PID)  
“Tax/Assessment” (Folio)  
“Hybrid” (mix)

**Temporal:**  
Planned  
Registered  
Historic

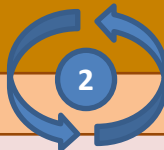
Parcel  
Registered/  
“Early Copy”

Enterprise GIS Systems “Stack”

Parcel Fabric Update  
(Worksheet 1)

Cad Annotation  
Easements / RoW  
Planned / Historic Parcels  
Air Space / Strata

Municipal  
Parcel  
Fabric



Land Record

Business Systems &  
Integrations  
(Worksheet 2)

**Business Systems,  
e.g.:**  
Taxation,  
Permitting,  
Asset Management  
Work Management  
Web Mapping  
Open Data

Taxation

Permitting

Asset Management/  
Work Management

Web Mapping &  
Open Data

Workflows:

1. Parcel Updates
2. Integrated GIS Layers
3. System Integrations

Horizontal & Vertical Integrations:

1. Parcel Fabric
2. Geospatial Datasets
3. Business Systems

GIS Dataset A

GIS Dataset B

Geospatial Dataset Derivations  
(Worksheet 2)

**Derived GIS Datasets, e.g.:**

Zoning, OCP  
Utilities, Buildings, Streets

**Parcel Fabric Workflows  
and Integrations (Before)**

V2020-10-20

Land Parcel

Parcel Intake /  
Update  
(Worksheet 2)

ParcelMap BC

Parcel  
Registered/  
Early Copy

**Parcel Baseline:**  
“Survey/Legal” (PID)  
“Tax/Assessment” (Folio)  
“Hybrid” (mix)

**Temporal:**  
Planned  
Registered  
Historic

Enterprise GIS Systems “Stack”

Parcel Fabric Update  
(Worksheet 1)

Cad Annotation  
Easements / RoW  
Planned / Historic Parcels  
Air Space / Strata

Municipal  
Parcel  
Fabric

Attributes

1

1

3

3

2

GIS Dataset A

GIS Dataset B

Geospatial Dataset Derivations  
(Worksheet 2)

Land Record

Business Systems &  
Integrations  
(Worksheet 2)

Taxation

Permitting

Asset Management/  
Work Management

Web Mapping &  
Open Data

**Business Systems,  
e.g.:**  
Taxation,  
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Asset Management  
Work Management  
Web Mapping  
Open Data

Workflows:

1. Parcel Updates
2. Integrated GIS Layers
3. System Integrations

Horizontal & Vertical Integrations:

1. Parcel Fabric
2. Geospatial Datasets
3. Business Systems

**Derived GIS Datasets, e.g.:**

Zoning, OCP  
Utilities, Buildings, Streets

**Parcel Fabric Workflows  
and Integrations (After)**

V2020-10-20

# Table 1 – Mapping of PMBC Logical Content to Municipal Parcel Fabric Content

PMBC Content: Feature Classes, Geometries, Attributes, Domains		LMFG Participant Uses Content Similar to PMBC Content				
Feature Dataset, Feature Class, or Table Name	Geometry or Table	Muni A	Muni B	Muni C	Muni D	Muni E
ParcelFabricExtract	Feature Dataset	Y	Y	Y	Y	Y
CommonOwnership	Table	Y	Y	Y	Y	Y
ControlPoint	Point	Y	Y	Y	Y	Y
Jurol_PID_X_Reference	Table	Y	Y	-	Y	-
ParcelLine	Line	Y	-	-	-	Y
ParcelPoint	Point	Y	-	-	-	Y
ParcelPolygon	Polygon Feature Class	Y	Y	Y	Y	Y
Plans	Table	Y	Y	Y	Y	Y
Shared_Geometry	Table	Y	Y	Y	Y	-
Y = PMBC content has a logical equivalent in the parcel fabric maintained in the participant's systems. - = PMBC content does not have an equivalent in the participant's systems.						

# Table 2 – Key Properties of Municipal Parcel Fabric Content

Properties of Municipal Parcel Fabric Datasets	LMFG Participant				
	Muni A	Muni B	Muni C	Muni D	Muni E
# of Feature Datasets <sup>1</sup>	1	0	0	5	0
Total # of Feature Classes <sup>1</sup>	6	22	22	26	19
# of “Key” Feature Classes <sup>1,2</sup>	4	6	3	4	NK <sup>3</sup>
# of Topology Datasets	0	0	0	0	0
# of Tables <sup>1,4</sup>	10	0	0	0	2
# of Relationship Classes <sup>1</sup>	0	0	0	2	0
# of Fields (in feature classes or tables, estimated)	~350	~128	~290	~285	~365
# of Domains <sup>1</sup>	1	11	18	10	7
# of Subtypes	0	8	8	0	NK <sup>3</sup>
Uses Esri Parcel Fabric	N	N	N	N	n/a

## Notes:

1 – The number of feature datasets, classes, etc. were taken from the X-Ray outputs. For City of Vancouver, the numbers were taken from the survey schema spreadsheet that was provided.

2 – “Key” feature classes are geometry layers that were named by the participant in Worksheet 1 of the situation assessment workbook.

3 – Not known.

4 – For participants who indicate zero tables, the attribute content is maintained instead using fields in feature classes.

# Table 3 – General Use Case for Parcel Record Add/Delete/Modify Workflow

ID / Name:	Use Case: Parcel Record Add / Delete / Modify Workflow
Goal:	Add, Delete or Modify One or More Parcel Fabric Records
Actors:	<ol style="list-style-type: none"> <li>1. CAD Technician</li> <li>2. GIS Technician</li> </ol>
Description:	<p>A workflow for updating the parcel geometry and attribution based on the subject plan. This may one or more of the activities listed here in a single plan update:</p> <ol style="list-style-type: none"> <li>1. Addition of a new parcel record when a new title is created</li> <li>2. Deletion of an existing parcel record when a registered title becomes inactive.</li> <li>3. The change in an attribute such as parcel status, legal description or owner, etc.</li> </ol>
Pre-Conditions:	<ol style="list-style-type: none"> <li>1. Land Title Plan is registered at the Land Title Office or Land Act Plan is confirmed at the Surveyor General Division</li> <li>2. The land record for the parcel to be updated already exists in municipality's Tempest system.</li> <li>3. CAD software (ex. AutoCAD, MicroStation) and GIS Software (ex. ArcGIS) has been installed on the workstations.</li> <li>4. A drawing file (DWG) of the registered plan is available.</li> </ol>
Main Flow of Events:	<ol style="list-style-type: none"> <li>1. The CAD Tech opens the current DWG base map file using the CAD software.</li> <li>2. The CAD Tech appends the newly surveyed DWG to the DWG base map and saves the file.</li> <li>3. The CAD Tech submits the DWG file to the GIS Tech.</li> <li>4. The GIS Tech launches the GIS software and converts the DWG file into a GIS dataset.</li> <li>5. The GIS Tech merges the newly created GIS dataset into the actively maintained GIS database.</li> <li>6. The GIS Tech enters the attribution related any newly added records.</li> <li>7. The GIS Tech commits the changes to the current GIS database.</li> </ol>
Post-Conditions:	<ol style="list-style-type: none"> <li>1. The geometry and attribution of the newly completed survey has been merged into the GIS database.</li> <li>2. Additional modifications to fabric-related geometries and attributes have been merged.</li> <li>3. The updated features are available for linking with business system integrations such as taxation, permitting and asset management (see diagram) and for possible publication to front-facing webmap for general public use.</li> </ol>
Alternate Flows:	<ol style="list-style-type: none"> <li>1. <u>COGO Parcel Input / Update</u>: If a PDF file of the registered plan is available instead of a DWG file, in Steps 1 to and 3, the CAD tech will COGO the dimensions off the plan, commit the changes to a DWG file, submit to the GIS tech, and continue from Step 4 of main flow.</li> <li>2. <u>Heads-Up Parcel Input / Update</u>: If a PDF file of the registered plan is available instead of a DWG file; GIS tech will used heads-up digitizing to add / delete the parcel.</li> </ol>

# Table 4 – Parcel Intake / Update Workflows

Land Record Intake / Parcel Record Intake and Update Workflows	LMFG Participant				
Workflow Characteristics	Muni A	Muni B	Muni C	Muni D	Muni E
Temporal					
Planned Parcels	-	-	Y	-	-
Current / Active Parcels	Y	Y	Y	Y	Y
Historical Parcels	-	-	-	Y	-
Required Update Effort	Low	Low	Medium	Medium	Medium
Format of Registered Plan Used for Geometric Updates					
Digital (DWG)	-	Y	Y	-	Y
PDF	Y	-	-	Y	-
Additional Parcel-Related Content					
Airspace	Y	-	Y	Y	Y
Strata	Y	Y	Y	Y	Y
ROWs	Y	Y	Y	Y	Y
Annotation	Y	Y	Y	Y	Y
Nominal Complexity of Land Record Intake / Parcel Record Intake and Update Workflows	Low	Low	High	High	Low

*Section 3.6:  
Transition Plan*

*Section 3.5.1:  
Metrics &  
Assumptions*

# Table 4 - Detail

Y = Scope of Parcel Intake/Update Workflows include this content.

- = Scope does not include this content.

An assessment of the complexity of the parcel intake / update workflows provides a basis for providing a qualitative estimate of the effort that would be required to update these workflows to adopt ParcelMap BC. The complexity can be defined by the rows in the table above.

Three levels are used to indicate the rate of change in the parcel fabric:

- Low = The update takes no more than 4 hours (one half day) each week.
- Medium = The update takes up to two days each week.
- High = The update requires more than 1 FTE a year to maintain the fabric.

Three levels of complexity for parcel intake/update workflows are defined as follows:

- Low = Only updates current/active parcels using DWG as the primary parcel input.
- Medium = Includes two of: Planned and Historic parcels, PDF as primary parcel input, and Develops additional content.
- High = Includes all of: Planned and Historic parcels, PDF as primary parcel input, and Develops additional content.

# Table 5 – Geospatial Dataset Derivations (“Vertical”)

Geospatial Dataset Derivations	LMFG Participant				
	Muni A	Muni B	Muni C	Muni D	Muni E
Derivations Characteristics					
Direct Geometric Derivations	Y	Y	Y	Y	Y
Integrations Between Geometric Layers and Business Systems	Y	Y	Y	Y	Y
Derivations are Generally Manual, Automated or Both	A	B	B	B	B
Nominal Complexity of Geospatial Dataset Derivations	High	Low	Medium	High	High

*Section 3.6:  
Transition Plan*

*Section 3.5.1:  
Metrics &  
Assumptions*

# Table 5 - Detail

An assessment of the complexity of the parcel intake / update workflows provides a basis for providing a qualitative estimate of the effort that would be required to update these workflows to adopt ParcelMap BC. The complexity of each participant's parcel fabric can be defined by: the number of geospatial layers and tables being maintained, how many related tables are used, and the level of complexity and automation of the update process.

Three levels of complexity for these fabric-related geometries are defined as follows:

- Low = 0 to 10 derived parcel layers, 0 to 10 related tables, parcel update process more straightforward or automated
- Medium = 10 to 20 layers, 10+ related tables
- High = 20+ layers

# Table 6 – Business System Integrations (“Horizontal”)

Business Systems	LMFG Participant				
	Muni A	Muni B	Muni C	Muni D	Muni E
<b>Integrations Characteristics</b>					
<b>Taxation</b>					
Tempest	Y	Y	Y	Y	Y
<b>Permitting</b>					
Tempest*	-	-	-	-	-
Energov	Y	-	-	Y	-
SAP Land Use Management (LUM)				Y	
POSSE	-	-	-	-	Y
GeoSource	-	Y	-	-	-
Amanda	-	-	Y	-	-
<b>Asset Management / Work Management</b>					
Hansen	-	Y	-	Y	Y
SAP (FM, building maintenance)	-	-	-	Y	-
CityWorks	-	-	Y	-	-
<b>Web Mapping / Portal(s)</b>	Y	Y	Y	Y	Y
<b>Open Data</b>	Y	Y	Y	Y	Y
<b>Nominal Complexity of Business System Integrations</b>	Low	Medium	Medium	High	High

*Section 3.6:  
Transition Plan*

*Section 3.5.1:  
Metrics &  
Assumptions*

# Table 6 - Detail

Y = Scope of Business Systems Integrations include this content.  
- = Scope does not include this content.  
\* Tempest not identified for permitting during interviews.  
\*\* Trend for DNV is towards high nominal complexity as they add more data and functional capabilities to their webapps (GeoWeb - external, GeoTools - internal)

# LMFG Review and Summary: Patterns of Adoption

# Table 9 – Four Adoption Pathways

	Replace	Realign
PID-centric	1A	1B
Folio-centric	2A	2B

Adoption Pathway	Geometric Alignment	Attribute Alignment
“PID-centric” Or Legal Property based	<u>Option 1 (“ParcelMap BC Replace”):</u> Completely replace the current internally maintained parcel fabric dataset with ParcelMap BC. The required minimum set of attributes would be included in this data set by default.	Implicitly achieved by replacement approach.
	<u>Option 2 (“ParcelMap BC Realign”):</u> Collaborate with LTSA to reconcile and realign the geometry of the current internally maintained parcel fabric with the current state of the ParcelMap BC dataset.	The following attributes should be present in the local parcel fabric and the attribute values should align with ParcelMap BC: <ul style="list-style-type: none"> <li>• PID</li> <li>• PIN</li> <li>• Legal Description</li> <li>• Plan Number</li> <li>• Owner Type</li> <li>• Parcel Status</li> <li>• Regional District</li> <li>• Parcel Class</li> <li>• Municipality</li> <li>• Designation 1, 2 and 3</li> <li>• JUROL</li> </ul>

Adoption Pathway	Geometric Alignment	Attribute Alignment
“Folio-centric” Or Tax Entity based	<u>Option 1 (“BCA Replace”):</u> Completely replace the current internally maintained parcel fabric dataset with BCA’s Assessment Fabric, which is based solely on geometry sourced from ParcelMap BC.	Attributes utilized will be based on organizational need and will be sourced from BCA data advice.
	<u>Option 2 (“BCA Realign”):</u> Collaborate with BCA to reconcile and realign the geometry of the current internally maintained parcel fabric with the current state of the BCA’s Assessment Fabric, which is based solely on geometry sourced from ParcelMap BC. Post adoption, any concern with the accuracy or correctness of BCA’s representation is first compared for consistency with ParcelMap BC for shape and attribution before raising an issue with the LTSA.	Attributes utilized will be based on organizational need and will be sourced from BCA data advice.

**Is there a fifth option: PID & Folio Hybrid?**

# Post-Adoption Responsibilities

## 1. Municipal Value-adds and Maintenance Tasks:

- Manage address information;
- Maintain connections to land records and permitting databases;
- Manage unique identifiers for parcels that don't have a PID or a PIN;
- Manage internal language and attribute alignment for different conventions, i.e., parcel class and owner types;
- Manage "planned" or "early copy" parcels, although this is under consideration at the LTSA as a new offering under a larger Survey Plan Services Modernization initiative;
- Map non-legal property information such as building footprints.

## 2. Joint Resolution of Fabric-Related Issues:

- Joint working relationship
- If fabric-related issues arise after adoption, participants work together to resolve.

## 3. LTSA Undertakings (current work in progress):

- Maintain operational standards and commitment to continually improve ParcelMap BC
- Explore UPI
- Planned Parcels
- Historic Interest Parcels

# Chapter 3 – Transition Plans

<b>3</b>	<b>PARCELMAP BC TRANSITION PLAN.....</b>	<b>3-1</b>
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# Guiding Principles / Specific Considerations

## Guiding Principles:

Based on lessons learned from AWG and City of Kamloops' adoption process

1. Take an iterative approach
  - a) Combined waterfall / agile
2. Deploy automation where possible
3. Engage internal knowledge workers
  - a) Transition Plan execution
  - b) Ongoing support / sustainment

## Specific Considerations:

Issues specific to each organization with a recommended approach / next steps

# High-Level Transition Plan Task Areas

## Phase 1: Project Planning

1.0 Approvals

2.0 Project  
Planning

## Phase 2: Project Execution

3.0 Project Management

4.0 LG Parcel Data /  
ParcelMap BC  
Realignment

5.0 Parcel  
Fabric / Land  
Records Update  
Process

6.0 Land  
Records System  
Integrations

7.0 Asset  
Management /  
Work Order System  
Integrations

8.0 Other  
Integrations /  
Interfaces

***“Substantial Adoption”***

# Phase 1 - Planning

ID	Task Area / Name	Description / Comments
Phase 1: Project Planning		Tasks related to obtaining approval to proceed and planning detailed project activities.
1.0	Approvals	Obtain internal permission / sponsorship
1.1	Business Case / Charter / Risk Assessment / Approvals	Includes: <ul style="list-style-type: none"> <li>- Development of Business Case (if required) and/or Project Charter.</li> <li>- ParcelMap BC technical specification review, organisational risk assessment and mitigation plan (if required).</li> <li>- HR considerations: "Who" and "what" will change to achieve the Future State. Execution of changes to be addressed as part of Change Management Plan.</li> </ul>
2.0	Project Planning	Project-related Planning and Administration
2.1	Detailed Transition Plan	Elaborate the high level LMFG Transition Plan to a detailed, "workable" project plan.
2.2	Communications Plan	Develop a Communications Plan for transition to ParcelMap BC, targeted primarily at internal participants. This Communications Plan should be aligned with the "Change Management" below.
2.3	Change Management Plan	Develop a Change Management Plan for ParcelMap BC transition that includes, at a minimum, the following key focus areas: <ul style="list-style-type: none"> <li>- Training plan associated with transition to PMBC - likely focussed on PMBC Product Technical Specs and interfaces w/LTSA.</li> <li>- Changes to workflows associated with PMBC intake and parcel layer "staging" for downstream consumption.</li> <li>- "When" and "how" any changes to HR Future State (roles, responsibilities) will occur.</li> <li>- Touch points / alignment with the Communications Plan specifically related to the changes above.</li> </ul>

# Phase 2 Tasks – Substantially Adopted

ID	Task Area / Name	Description / Comments
<b>Phase 2: Project Execution</b>		Tasks related to the execution of the Transition Plan.
3.0	Project Management	Project Management associated with execution of the Transition Plan.
3.1	Ongoing Project Management	Ongoing Project Management throughout the remaining duration of the project.
4.0	LG Parcel Data / ParcelMap BC Realignment	Achieve Realignment between LG parcel fabric data and ParcelMap BC
4.1	Geometric Data Analysis / Confirm Adoption Path	Determine, via collaboration with LTSA and the use of available LTSA-provided Alignment Resources, where there are significant deviations in geometry due to LG non-plan adjustments or other factors. Confirm the Adoption Path most suitable for the organisation.
4.2	Horizontal Data Integration Analysis: Parcel Fabric and Business System Integrations	Develop/confirm the approach to support required ParcelMap BC attribution while supporting other required parcel attribution (e.g. business data / foreign keys).
4.3	Vertical Data Integration Analysis: Parcel Fabric	Develop/confirm the approach to supporting vertically integrated parcel-based data (e.g. easements, air space, RoWs, strata, historical parcels).
4.4	Vertical Data Integration Analysis: Geospatial Dataset Derivations	Develop/confirm the approach to supporting existing Geospatial Dataset Derivations.
4.5	LG Parcel Data / ParcelMap BC Processing	Engage in a collaborative effort with LTSA to realign geometric features of LG parcel fabric with ParcelMap BC as required.
4.6	Implement Horizontal Data Integration Updates	Implement any changes to supporting required ParcelMap BC attribution while supporting other required parcel attribution (e.g. business data / foreign keys).
4.7	Implement Vertical Integration Updates	Implement any changes to the approach to supporting vertically integrated parcel-based data (e.g. easements, air space, RoWs, strata, historical parcels).
4.8	Implement Geospatial Dataset Derivations Updates	Implement any changes to the approach to supporting Geospatial Dataset Derivations.
5.0	Parcel Fabric / Land Records Update Process	Update processes / workflows associated with parcel fabric and land records updates
5.1	PMBC Land Parcel Intake Process(es)	Develop and implement new intake process to accept PMBC data from LTSA and update parcel layer(s).
5.2	BC Assessment Land Record Intake Process(es)	Confirm and implement the approach for accepting BCA advice in parallel with accepting PMBC updates.

# Phase 2 Tasks – Integrations

ID	Task Area / Name	Description / Comments
Phase 2: Project Execution		Tasks related to the execution of the Transition Plan.
6.0	Land Records System Integrations	Update integrations with land records systems (if required)
6.1	Taxation / Assessment System	Confirm and implement any required process(es) to maintain integrations to taxation / assessment systems.
6.2	Permitting System	Confirm and implement any required process(es) to maintain integrations to permitting system(s).
7.0	Asset Management / Work Order System Integrations	
7.1	Asset Management System	Confirm and implement any required process(es) to maintain integrations to asset management system(s).
7.2	Work Order System	Confirm and implement any required process(es) to maintain integrations to work order system(s).
8.0	Other Integrations / Interfaces	
8.1	Open Data	Address any impacts to Open Data content currently being provided.
8.2	Others	Assess and address impacts to other downstream users or participants (e.g. Web based viewers/portals, data exchange with external participants)

## Section 2.2.7 – Opportunities and Benefits

### Opportunities / Benefits Themes:

1. HR Capacity
2. Data Quality / Completeness
3. Timeliness / Efficiency
4. Improved Integrations / Collaborations
5. Improved Decision-Making / Risk Mitigation

# LMFG Review and Summary: Next Steps

# What Else? / What's Next?

## General

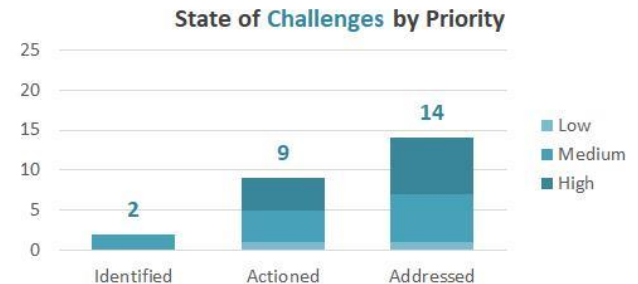
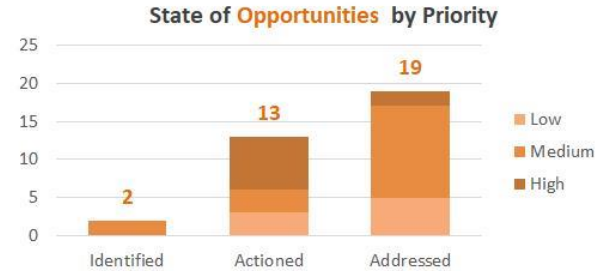
- LTSA & ICI Society:
  - Continue to raise awareness
  - Technical workshops
  - *What else do you suggest?*
- LMFG Participants:
  - Issues Log
  - Join the Adoption Working Group (AWG)
  - Join an AWG Team
    - Team Alignment (close to complete)
    - Team Province (not LMFG)
    - Team Land Records

## Specific

- LTSA:
  - Answer LMFG questions about the analysis & Transition Plan
  - Respond to requests for additional information and support related to adoption
  - *What else?*
- LMFG Participants:
  - Self-paced: Techs work through online materials
  - Techs meet with LTSA Operations Team
  - *What else?*

# Tying LMFG to the AWG: Aligning of Findings w/Issues Log

- One goal is the LMFG exercise is to identify candidates for the Adoption Issues Log that reflect the opportunities & challenges of Large Municipalities.
- Two existing Issues raised to date during the LMFG sessions.
  - Historical ROWs
  - Fees
- What else on behalf of LMs?
  - Ask for LMFG participants to identify other issues / opportunities not captured yet



# Tying LMFG to the AWG: AWG Discussion/Feedback

## Value?

... of LMFG work to AWG

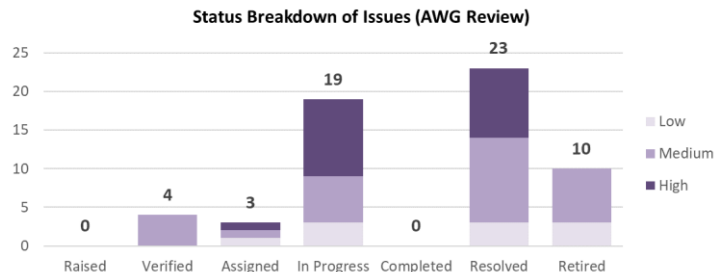
... of AWG to LMFG

## What do the findings / results mean to you?

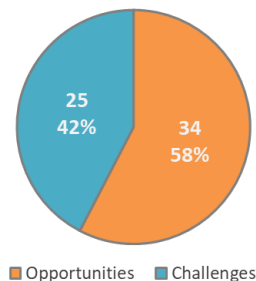
What should/could the AWG do with these outcomes?

# Adopter Issues Log: AWG Priorities Recap & Review

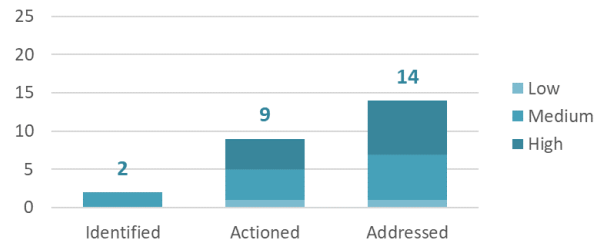
Status see [AWG page](#):



Adopter Issues Summary



State of Challenges by Priority



## Changes / Updates:

No New Issues This Session

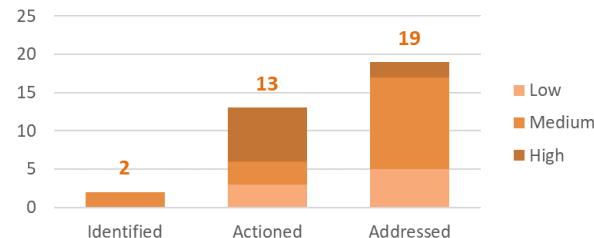
Issues with Status Change / Update – *In Progress*

#59 "Incorrect Municipality Update Delays"

#5 "Historic Charges and RoWs"

#55 "Uncertainty whether in future there may be a cost to access ParcelMap BC"

State of Opportunities by Priority



# Future Workshops

## Workshop #23 Date & Logistics

Wednesday ~~November 18<sup>th</sup> (10:00a – 12:00p)~~ Webconference)

November 18<sup>th</sup> 1:00 – 3:00p

November 25<sup>th</sup> 10:00a – 12:00p

December 2<sup>nd</sup> 9:30a – 12:00p (and skip Dec 16<sup>th</sup>??)

### Possible Topics:

Customer Insights: Real Estate Industry & Data Usage ??

BCA / LTSA workflows ??

Someone do an “Adopter Story” ??

Other ??

## Subsequent Workshop Dates

December 16<sup>th</sup> , January 20<sup>th</sup> , February 17<sup>th</sup> ...

# Wrap-Up

Group Feedback?  
Open Questions?