

Making the Most of Survey Parcel Data Best Practices Workshop

GIS day

November 17, 2021

10:00a - 12:00p

Virtual Event

Organized by:

ParcelMap BC Adoption Working Group

Agenda

Welcome / Opening Remarks (10 min) - LTSA (Brian Greening)	10:00 am
 Theme 1: Parcel Data Fundamentals (30 min) Topic A: The Basics (Parcel Data Basics) - (Brian Greening) Topic B: ParcelMap BC Overview & Advantages – (ParcelMap BC Operations) Case Study: Outcomes & Benefits of ParcelMap BC Adoption at BC Assessment (Tom O' Brien/ Aren Scott) 	10:10 am
 Theme 2: Making Use of Parcel Data – Day to Day Use Cases (30 min) Topic A: Parcel Data Access / Usage Patterns (Dave Horwood) Topic B: Issues Associated with Effective / Appropriate Use (Brent Taylor) Case Study: Real World Examples & Lessons Learned – (Brent Taylor) 	10:40 am
 Theme 3: Drawing on the Same Canvas – Aligned Data Sources & Use Cases (30 min) Topic A: Emerging Trends & Leading Practices (Jason Hart) Topic B: Challenges & Opportunities (Dave Gariepy) Case Study: Building a Common Canvas (Jason Hart) 	11:10 am
Open Moderator-led Discussion & Take-aways (20 min)	11:40 am



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Welcome / Opening Remarks

Workshop Background

ParcelMap BC Adoption Working Group & part of the ICI Society Virtual Café Series



Panel & Facilitator Introductions

Brian Greening, Director, ParcelMap BC Products, LTSA	Steve Mark, Director, Operations, ICI Society
Tom O' Brien, Manager, Data Mgmt & Reporting, BC Assessment	Irshad Jamal, Parcel Fabric Technician, LTSA
Dave Horwood OLS, Land Info Systems Architect, Esri Canada	Bill Johnstone, Principal Consultant, Spatial Vision Group
Brent Taylor BCLS CLS, Managing Director, Polaris Land Surveying	John Samulski, Project Manager, Spatial Vision Group
Jason Hart, Owner, Harterra Spatial Solutions	
Dave Gariepy, Director, Land Information Solutions, Esri Canada	

Please head to the Chat panel: It's Poll Question Time!



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Theme 1: Parcel Data Fundamentals



Theme 1: Parcel Data Fundamentals

What will we cover in this theme?

Topic 1A: The Basics (Parcel Data Basics)

Topic 1B: ParcelMap BC Overview & Advantages

Transition: Poll Question(s)

Case Study: Outcomes & Benefits of ParcelMap BC Adoption at BC Assessment



Topic 1A: The Basics (Parcel Data Basics)

Brian Greening, LTSA



Context of Land and Property in British Columbia

British Columbia is the 3rd largest province in Canada and covers a total area of 944,735 km² (364,764 sq mi)

~ 93% of land in BC is classed as Provincial Crown land

~ 90% is unsurveyed

~ 2% is covered by fresh water

~ 40,000 Islands

~ 7% of land in BC is privately owned land

1% is Federal land (incl IRs, Defence Lands, Federal Harbours, etc...)

Over 2,200,000 titled parcels

Approx. 600,000 strata parcels (condominium)

~ 50% of new parcels are strata

Over:

2x California (424,000 km²)
3x United Kingdom (243,600 km²)



Describing Legal Property in BC

9 different Primary Survey Systems form basis of describing property in BC

First System 1851: Hudson's Bay Company Sections

Second System 1858: Sections and Ranges Vancouver Island

Third System 1858: Sections, Ranges, Blocks

Fourth System: Variable Sized District Lots

Fifth System 1873: Townships in New Westminster District

Sixth System: Provincial Townships

Seventh System: Island Townships

Eighth System: District Lot System

Ninth System: Dominion Lands

History Link:

CROWN LANDS A History

of Survey Systems

W. A. Taylor, BCLS (1975)

Survey Systems provide the root / basis for uniquely describing a survey parcel

A parcel's Legal Description: The unique identifier for each parcel of land in the province. It is a text description that may include lot number, plan number, survey system identifiers (Range, Block, Township, District Lot, District, etc.) and other text.

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Property Boundaries in BC: Surveys, Plans and Parcels

Surveys and Plans (ref. ABCLS)

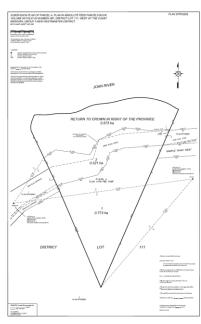
<u>Land surveyors in BC</u> have an exclusive scope of practice which includes carrying out surveys and preparing plans for registration in the Land Title Office or Crown Land Registry which describe boundaries of interests in land...

Land surveyors may propose but do not make boundaries; boundaries are made by those who have an interest in the land (people, communities, organizations, the Crown) and by the courts. A land surveyor's establishment of a new boundary is not conclusive until affected owners consent to the survey and regulatory authorities sanction it.

Survey Plans

A graphical representation of a survey conducted by a BC land surveyor which shows the spatial extent, area, corner monuments and generally the geographic location of a specific area of land for the purpose of defining (or reposting) the boundaries of a parcel, pursuant to one of several statutory Acts: the Land Title Act, Land Act, Mineral Tenure Act, Coal Act or Oil & Gas Activities Act.

A Survey Plan represents pictorially the legal boundaries and dimensions (bearing & distances on the ground) of a surveyed parcel of land, identifying the type & location of survey evidence (monuments or survey posts set in the ground) defining its boundaries.





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Property Boundaries in BC: Surveys, Plans and Parcels

Geo-referencing of Survey Plans

Legal Survey Plan geo-referencing became mandatory in 2013:

Requirements defined in the Survey and Plan Rules (ABCLS)

Uses UTM Spatial Reference Grid (crossing 5 Zones: 7N, 8N, 9N, 10N, 11N)

Horizontal datum standard is NAD83 CSRS (per Circular Letter 463A)



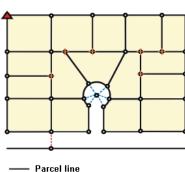
Survey Plan Datasets

A digital representation of a legal survey plan, submitted by a BC land surveyor, supporting the maintenance of ParcelMap BC

Mandatory submission for most legal survey plans since September 2016 under Practice Bulletin #3

Cadastral Mapping (or Parcel Fabric)

A visual representation consolidating the records of survey (survey plans and other) for an area, resulting in a single, continuous network of boundaries stitched into a "fabric" of connected parcels



Parcel point

Parcel polygon Control point

Line point

Radial line

Connection line

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Parcel Administration in BC

Parcels are administered in:

2 x Provincial land registries

Crown Land Registry (has PINs)
Land title register (has PIDs – generally...)

plus multiple Federal lands registries...

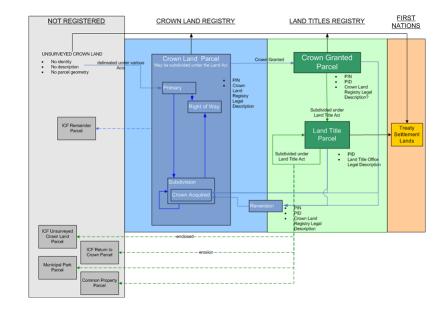
Indian Act, First Nations Land Management Act and others...

plus Treaty First Nation registries...

Self-governed registries (Sometimes...)

plus Ownership/Assessment perspective...

BC Assessment's JUROL (Jurisdiction & Roll)
A different "view" of property coincident with survey view





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Parcel Mapping in BC

Different sources of parcel mapping for BC:

Crown Land Survey Parcels (TANTALIS)

Crown tenures and Survey Parcels from the Crown Land Registry (has PINs)

Integrated Cadastral Fabric (ICF)

Titled parcels (PIDs but some Crown w/ PINs) mapped by GeoBC or sourced from ParcelMap BC

ICIS Cadastre

Titled parcels (PIDs) amalgamated from local governments, ICF and ParcelMap BC

ParcelMap BC

Both Crown and titled parcels (PIDs, PINs and JUROLS) plus other cadastral entities... Used TANTALIS, ICF and ICIS Cadastre as seed source but maintained by LTSA

Assessment Fabric

BC Assessment's JUROL (Jurisdiction & Roll) keyed mapped representation providing an Ownership/Assessment view Largely derived from ParcelMap BC Parcels but uses other sources



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Topic 1B: ParcelMap BC Overview & Advantages

Brian Greening, LTSA



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Property Owners V

Professionals Y

Government ~

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ParcelMap BC

Home Page

LTSA > Products & Services > ParcelMap BC

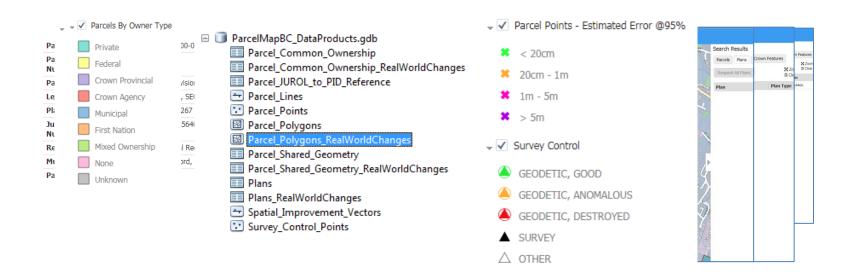
ParcelMapBc

The *current, complete,* and *trusted* visual representation of titled and Crown land parcels across all of British Columbia.

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



ParcelMap BC: Continually Improved, Comprehensive Property Information



ParcelMap BC Data Products & Descriptions



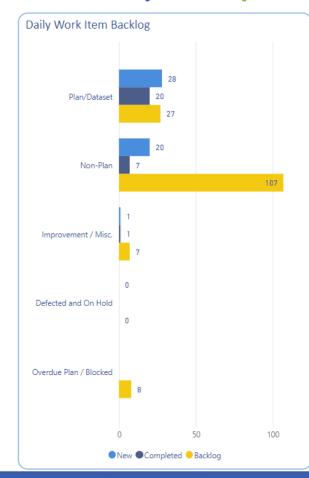
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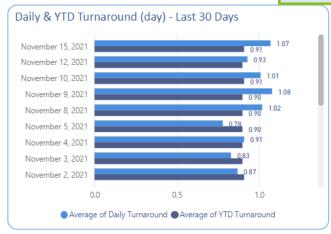
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ParcelMap BC: Operational Status

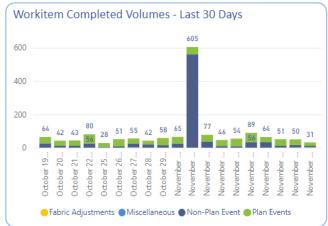
Fully Operational on 30-Jun-2017

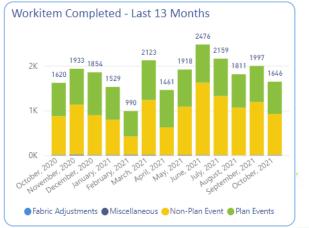
< 2 Day Turnaround since Mar-2018











ParcelMap BC: Operational Status

Spatial Improvements

Targeted:		Completed (<i>Latest</i> only – full list <u>here</u>):	
Rock Creek	November 2021	Agassiz / FVRD rural	July 2021
Northwest of	November 2021	Eagle Bay (CSRD)	July 2021
Okanagan Lake / West Kelowna		Chilliwack / Sardis	August 2021
Osoyoos	November 2021	Oyster River (CVRD)	August 2021
		Cumberland	September 2021
Spallumcheen	December 2021	Fraser Valley Regional District	September 2021
Kedleston	December 2021	Little River	October 2021
		West Kelowna	October 2021



Adjustme	nt Readiness Summary	≉ ×
1_1	Area of Interest	107
	Candidate Areas	2,933
	Adjusted Areas	6,019



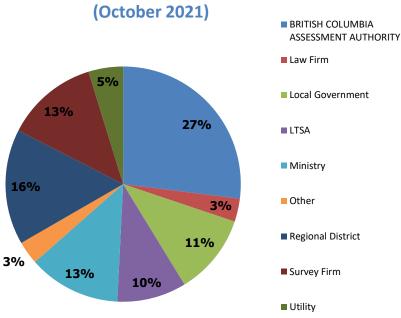


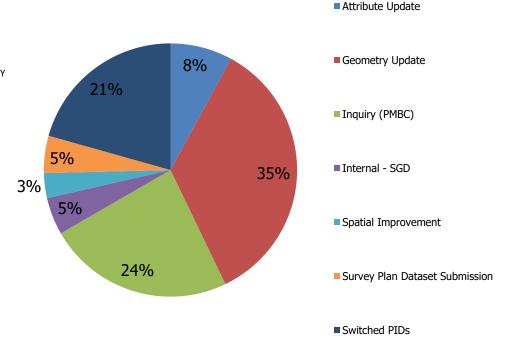
ParcelMap BC: Customer Support Requests



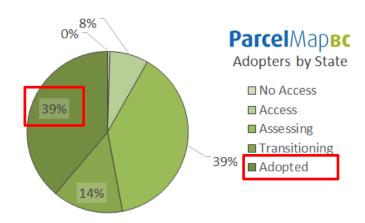
Support Cases by Type (October 2021)

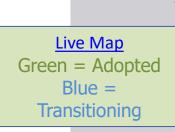






ParcelMap BC: Adoption Dashboard



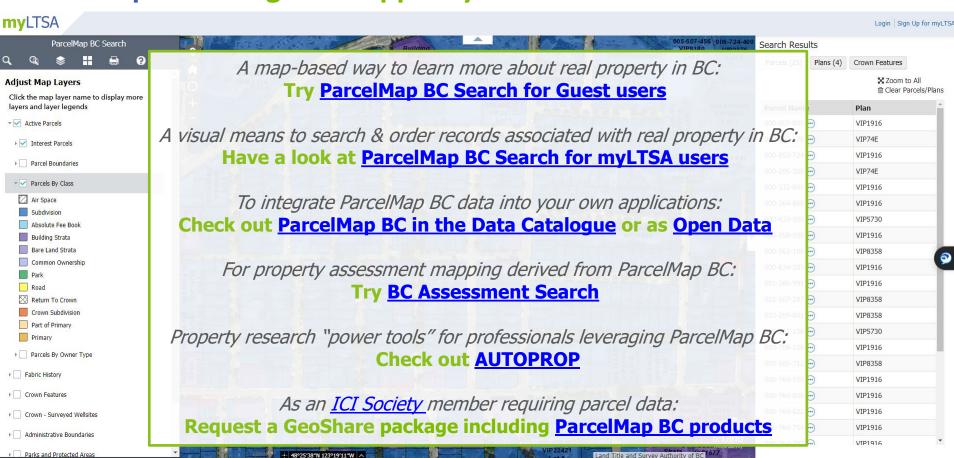


Adopter Groups by State	No Access	Access	Assessing	Transitioning	Adopted	Total
Local Governments using ICF	0	1	17	6	48	72
Provincial Groups using ICF	0	0	2	4	2	8
Local Governments who Self Maintain	1	15	59	17	27	119
Parcel Consumers using ICIS Cadastre	0	1	7	2	6	16
ICI Society (Internal)	0	0	0	2	0	2
LTSA (Internal Use)	0	0	0	0	2	2
	1	17	85	31	85	219

Monthly
Dashboard
Published Here



ParcelMap BC: Using it to support your work



ParcelMap BC: Benefits & Opportunities

Timely Updates

Published daily with service target of 2 day turnaround (consistently < 1 Day for nearly 2 years!)

Authoritative Representation

Updates from triggers & attribution from land title register and Crown land registry Representation updated with <u>survey plan datasets</u> from land surveyors based on plan filings

Continual Improvement

Georeferenced surveys power <u>adjustments and improvements</u> to the parcel fabric

Single, shared point of reference to drive efficiency

BC Assessment, Province, Land Surveyors, ALC, other Local Governments, Utilities, Others...

Allows data maintainers to focus on value-add products

Development Plans: <u>Surrey adopts Survey Plan Dataset</u> standard Change vector output and <u>alignment resources</u> simplify information alignment

Supported by resources to help your use and transition

Adoption Working Group and the Adoption Resources and Tools aide in making the most of your use!



Please head to the Chat panel: Poll Question Time!



Case Study: Outcomes & Benefits of ParcelMap BC Adoption at BC Assessment

Tom O'Brien, BC Assessment

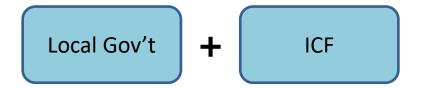




Local Gov't







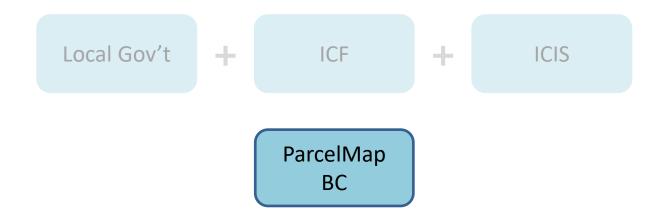










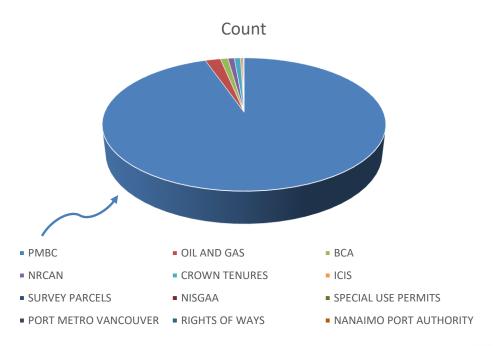




BC Assessment – Total Sources



Source	Count
PMBC	2130206
OIL AND GAS	46406
BCA	23128
NRCAN	19651
CROWN TENURES	18716
ICIS	5370
SURVEY PARCELS	3330
NISGAA	953
SPECIAL USE PERMITS	846
PORT METRO VANCOUVER	539
RIGHTS OF WAYS	279
NANAIMO PORT AUTHORITY	81



^{*}some sources are authorized for internal use only and not published to ICI Society



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BC Assessment – Adoption



- Automated processes developed
- Weekly and daily scheduled jobs run overnight
- Weekly manual processing for exceptional (aka difficult) properties

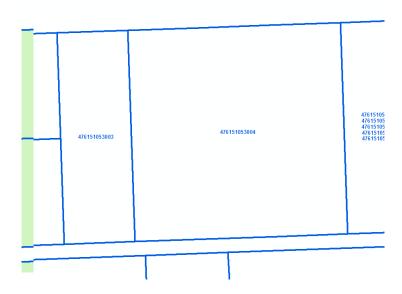


Tom O'Brien & Mark Harris
ParcelMap BC Adoption Certificate
June 2019



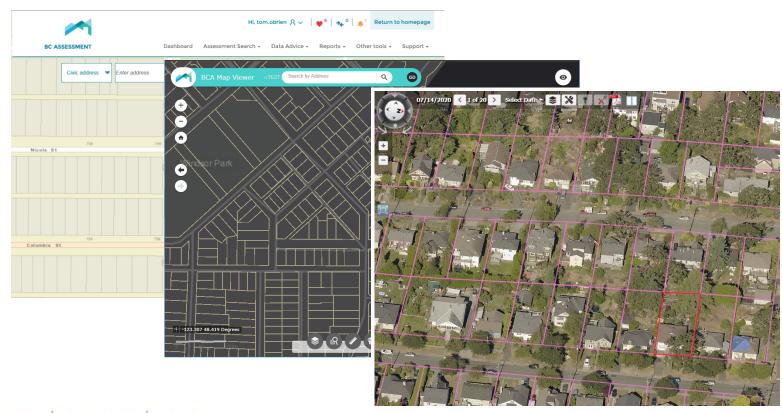
Assessment Fabric vs. Parcel Map BC Cadastre

...a comparison





BC Assessment - Apps





BC Assessment – Partnership



Mutually Beneficial Relationship

- BCA GIS works closely with the ParcelMap BC Operations team to continually improve the data.
- BCA has scripts running weekly identifying new and changed parcels, as well as spatial and attribute discrepancies
- BCA has both public and internal people using and validating the data.
- BCA and LTSA working together for continuous improvement of the ParcelMap BC data.



Theme 2: Making Use of Parcel Data - Day to Day Use Cases



Theme 2: Making Use of Parcel Data - Day to Day Use Cases

What will we cover in this theme?

Topic 2A: Parcel Data Access / Usage Patterns

Topic 2B: Issues Associated with Effective / Appropriate Use

Transition: Poll Question(s)

Case Study: Real World Examples & Lessons Learned



Topic 2A: Parcel Data Access / Usage Patterns

Dave Horwood, Esri Canada



Parcel Data Use Cases



Parcel as an index to other systems

Legal – title registry

Value – assessment

Use – zoning / official plan



Parcel as a background for other layers

Infrastructure (above / below ground)

Address and buildings

Topography / Imagery (hazards)



Parcel as a representation of legal boundaries



Parcel Data Users

Local Governments

Provincial Agencies

Utilities

Landowners

Land
Development
Professionals

Land Surveyors

GIS Professionals

General Public



Parcel Data Access Methods

- Custom Applications
- Feature Services
- Reports (free / paid)
- Update Workflow (digital submission)
- Mobile Workflow (future)
- Plan Review
- CAD / GIS workflows



Community Property Map of Canada





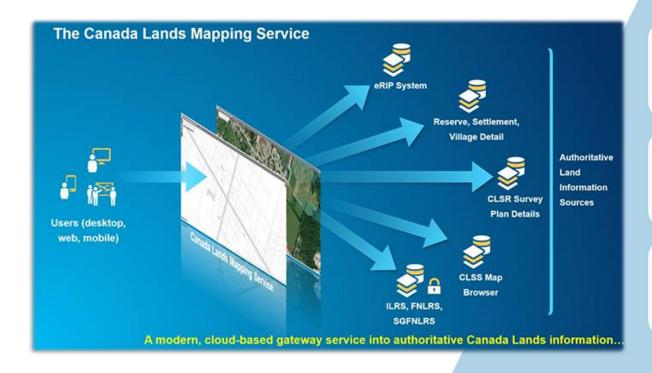
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authoritative land information systems

Canada Land Mapping Service



Access to a seamless, up-to-date, national Canada Lands map

Consuming as a service in desktop, web and mobile applications

Efficiently finding authoritative land information about specific Canada Lands Parcels



Surveying versus Mapping

Surveying	Mapping
Legal tool	Information management tool
Created by surveyors to define extent of tenure	Created by mapping organizations to model limits of all interest as an index to land information
Project specific, customer oriented	Jurisdiction, operationally oriented
Independent files – unstructured information (text)	Continuous database – structured information (attributes)
Based upon legal surveying laws, principles and practices	Based upon mathematical principles and best practices
Snapshot in time	Continuously evolving through time with history



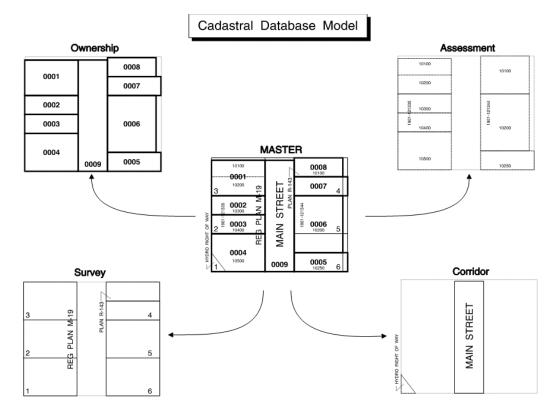
Parcel Data Access Issues

- Licensing / Cost
- Data download versus web services
- Different parcel definitions (survey / title / assessment)
- Parcel geometries (2D / 3D)
- Cross-jurisdictional alignment
- Timeliness / Currency
- Accuracy



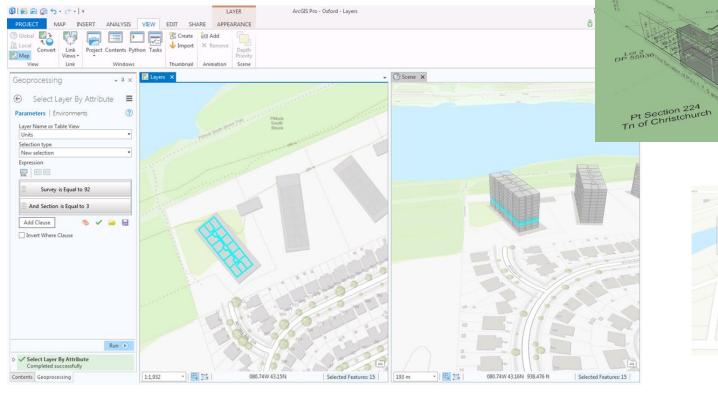
Parcel Definitions

- Different definitions
 - property,
 assessment,
 survey,
 encumbrance,
 separated right,
 regulate use,
 leasehold





Parcel Geometries (2D / 3D)



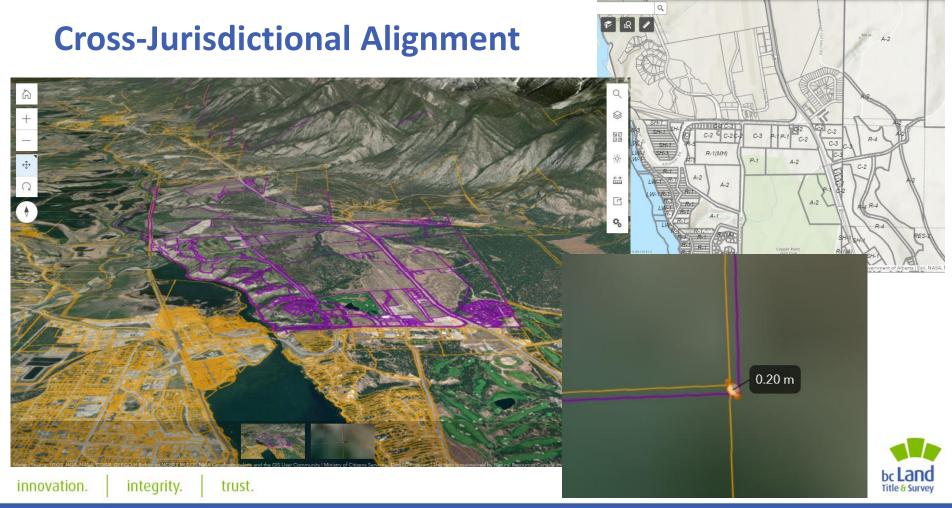




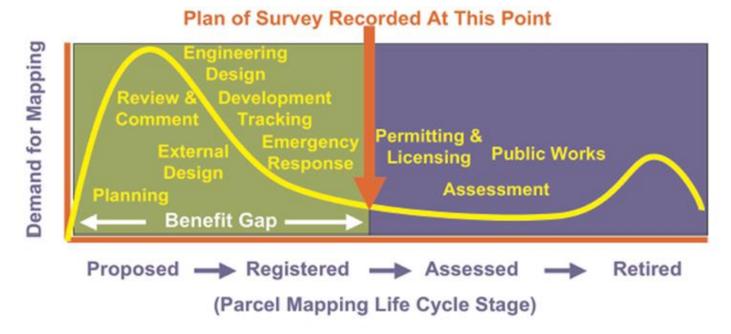
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Parcel Life Cycle (Timeliness / Currency)





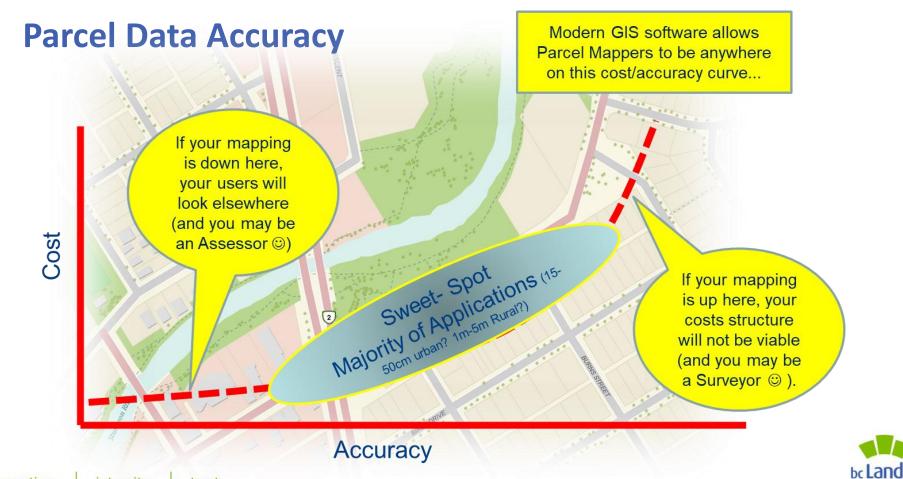
Source: Geomatica Volume 61 Number 4, 2007



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Appropriate Use of Parcel Data

- Parcel is a "best fit" location based on source data
- Not a replacement of a legal survey
 - Surveys are in fact used to update parcel map
 - Interpretation is not purely mathematical
- Parcel should communicate estimated accuracy
 - Metadata
 - Line widths
- Parcel accuracy should be compatible with overlaid data
- Parcel reference (ID) generally more important than spatial accuracy



Topic 2B: Issues Associated with Effective / Appropriate Use

Brent Taylor, Polaris Land Surveying Inc.



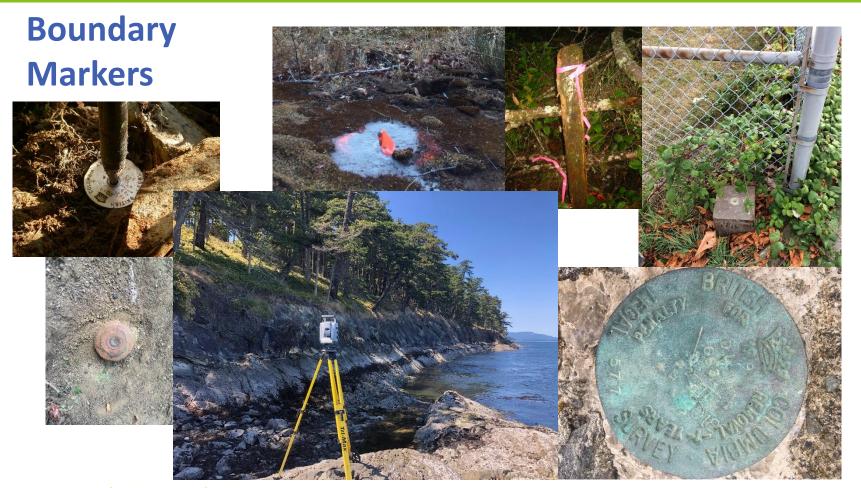
What is a Property Boundary?

The answer lies in the following quote:

"It is the actions of people, land owners, including the Crown, that create boundaries. The need for some kind of legal sanction is an essential step in the transformation of a surveyed line, as a mere line on a plan into a legal boundary. The legal sanction lies in the recognition that the ownership of rights is divided spatially by what is known as a boundary and thereby the transformation from a mere surveyed line to a legal boundary is accomplished."

(Lambden, de Rijcke, Survey Law in Canada)







Ancillary Evidence – Not a property corner





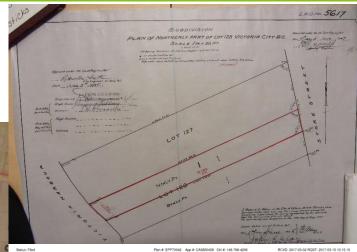
Hierarchy of Evidence – Case Law

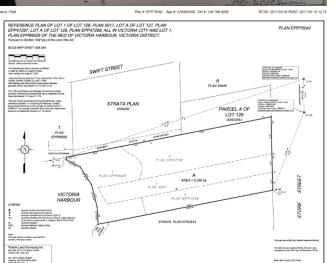
- 1. Natural Boundaries
- 2. Original, undisturbed survey post
- 3. Occupation dating back to original survey
- 4. Measurements on Plans

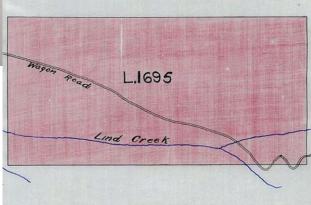


Survey Plans











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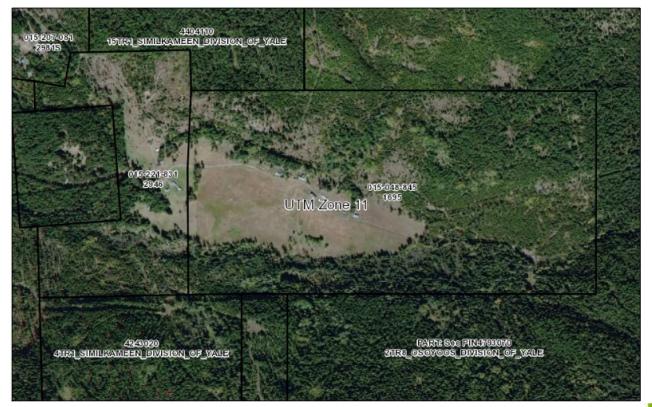
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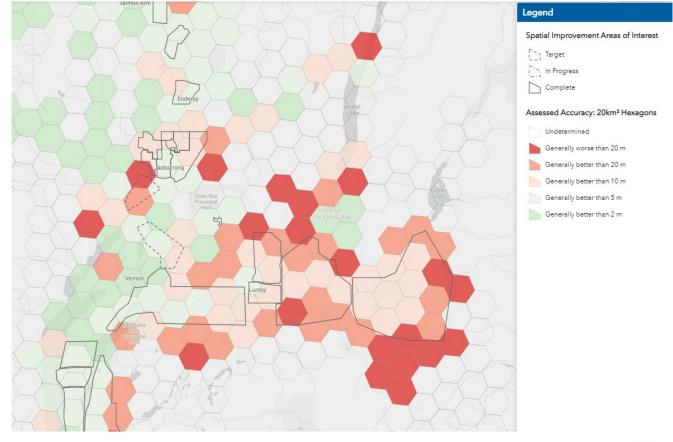
ParcelMap BC

ParcelMap BC Print Report





Spatial Improvement Assessment





Please head to the Chat panel: Poll Question Time!

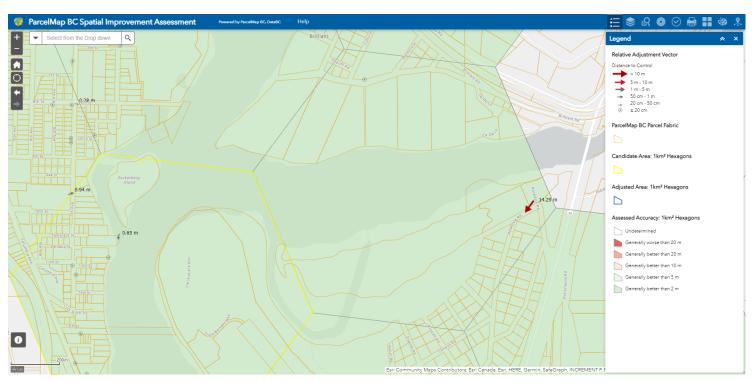


Case Study: Real World Examples & Lessons Learned

Brent Taylor, Polaris Land Surveying Inc.



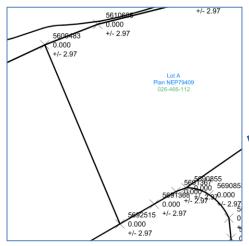
Case Study 1 – Castlegar Area

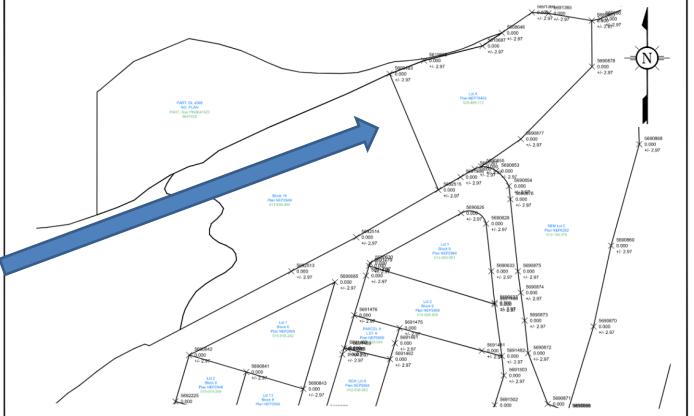


Expected to be better than 2m (green hexagon) and a known anomaly of 14m.



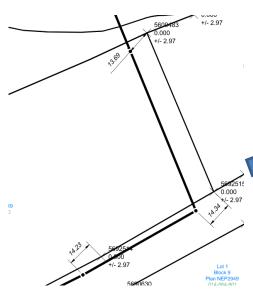
Parcel Point Estimates

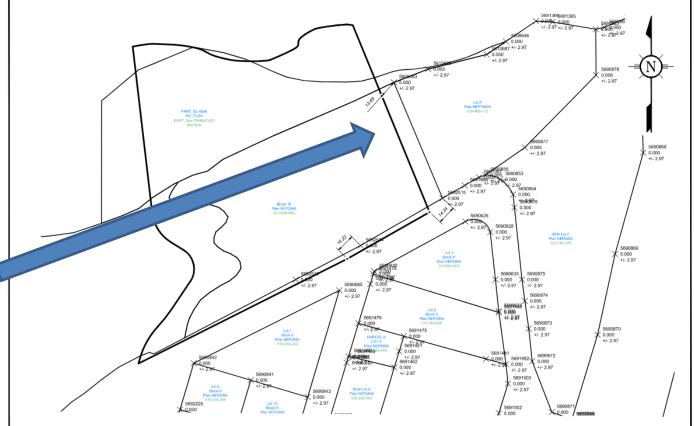






PMBC vs Real World

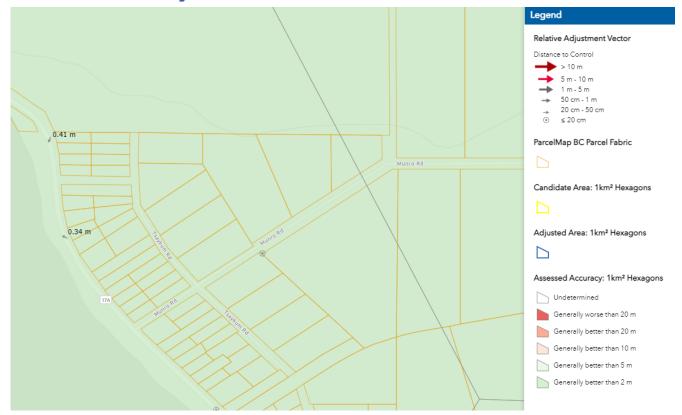




14m difference plus PNB issue

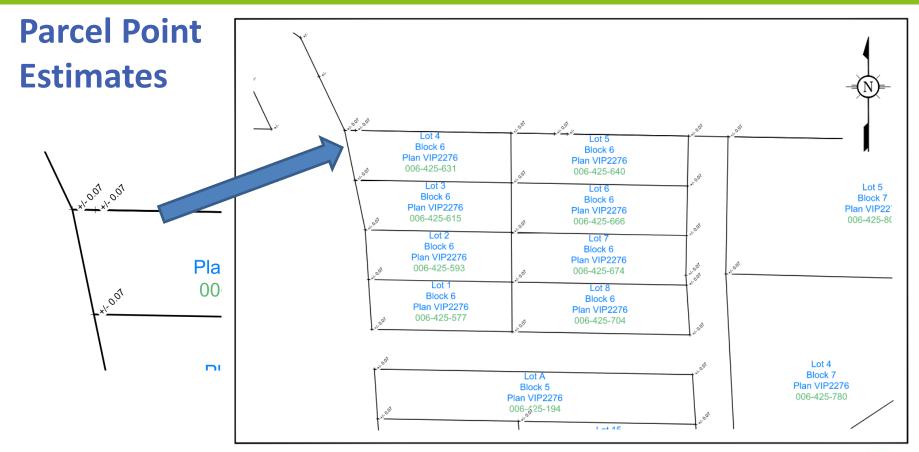


Case Study 2 – North Saanich Area



Expected to be better than 0.5 m (green hexagon) and a known anomaly of 0.4 m.





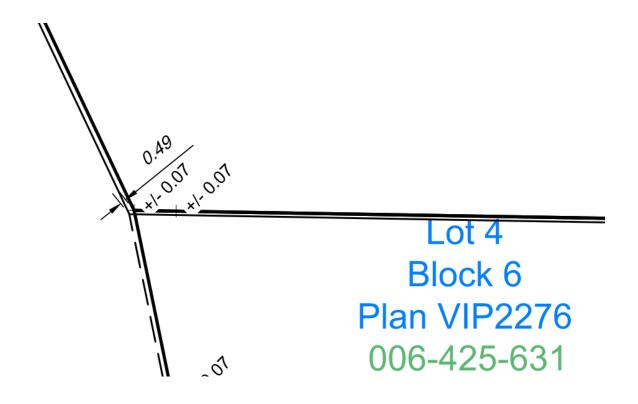


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PMBC vs Real World



0.4m difference plus PNB issue



Conclusions

- Consult the Spatial Improvement
 Assessment Tool to gain a sense of the accuracy of the parcel fabric
- Always obtain copies of the survey plans
- Always find the survey markers
- If in doubt contact a BC Land Surveyor



Theme 3: Drawing on the Same Canvas – Aligned Data Sources & Use Cases



Theme 3: Drawing on the Same Canvas – Aligned Data

What will we cover in this theme?

Topic 3A: Emerging Trends & Leading Practices

Topic 3B: Challenges & Opportunities

Transition: Poll Question(s)

Case Study: Building a Common Canvas



Topic 3A: Emerging Trends & Leading Practices

Jason Hart, Harterra Spatial GIS Solutions



Drawing on a common canvas

- Many organizations start with parcel boundaries for designing, planning and creation of their information and data.
- Historically, the source parcel boundaries have come from different sources with varying accuracies, precision and completeness.
- Results in data generated with varying accuracies, precision and completeness.



Benefits of a common canvas

• Use of a common parcel representation for design and planning has the effect of aligning datasets between and within organizations.

- Overall goals are to:
 - Reduce or eliminate errors
 - Increase confidence
 - Reduce duplication of information
 - Reduce costs
 - Provide new opportunities...



Future Trends and Leading Practices

- Design and engineering
 - Using ParcelMap BC as the starting point for designing infrastructure
 - Attempting to bring in other external data together for planning and design
- Administrative and or legal boundary alignment
 - Allows spatial overlay to determine attributes of associated polygon(s)
 - Support using parcel definitions rather than traditional metes and bounds description
- Planning and land-use
 - OCP, zoning, others
- Emergency Operations / Common Operating Picture

Future trends and leading practices

- Infrastructure operations
 - Confidence in the data when accuracies are known
 - Less visits to the field
- Management of rights-of-way and easement
 - Other interest surveys integrated into the ParcelMap BC fabric
- Automation of alignment to ParcelMap BC fabric
 - ParcelMap BC Data Alignment Tools
- Rapid changes in technology
 - · Making it easier to access data and leverage data
 - Easier to integrate ParcelMap BC data with other data and systems
 - Tools like GNSS and drones for capturing geospatial data are much pervasive

Future trends and leading practices

- Business intelligence and decision support
 - Property information and management
 - Property reports
 - Ties to assessment information
- Open access and sharing of data
 - Data is becoming more accessible
 - ParcelMap BC data is publicly available
- Driving data quality improvements
 - Parcel data, but also the data that is associated and integrated with the parcel

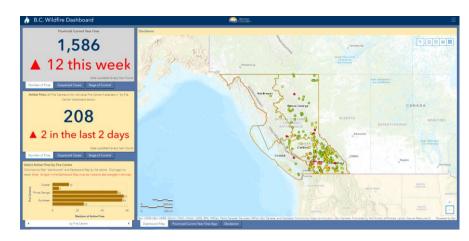
Topic 3B: Challenges & Opportunities

Dave Gariepy, Esri Canada



Challenges associated with providing, accessing and using parcel mapping content

- The parcel map is not a survey!
- Spatial alignment across data sets and jurisdictions
- Massively increasing user base and demand
- Rapidly advancing technology
- Efficient access for developers and users
- Legacy content provisioning (both technology and business models)
- · Open data vs licensed data



The BC Wildfire Dashboard: Example of a modern, collaborative, cloud-based mapping application leveraging multi-sourced services to provide a highly consumed, simple to use public service. Over 4.4 million visits in June 2021

Working Towards the "Common Canvas"

- Good spatial alignment across datasets and across jurisdictions increases user productivity and improves decision making – a "common canvas" for everyone to work on
 - BC Assessment parcels and Agricultural Land Commission boundaries have been spatially aligned with ParcelMap BC
 - The ParcelMap BC Adoption Working Group (AWG) has resources to help organizations align their data to ParcelMap BC
 - NRCan and LTSA are collaborating to improve spatial alignment and ties between their respective mapping datasets

Adoption Resources and Tools

Last modified on October 28, 2021

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.

Spatial Alignment Resources:

The geometric alignment of your spatial data with ParcelMap BC can be assessed and managed using the Spatial Alignment Resources summarized below. More information on these resources can be found at the Spatial Alignment Resources page.

Data Alignment Workflow Package

The Data Alignment Workflow Package (DAWp) is a collection of ArcGIS Desktop based workflows, available for ParcelMap BC users to assist with initial and ongoing alignment of data sets. The DAWp was developed in conjunction with Esri Canada &.

Cadastral Ties for Spatial Improvement

ParcelMap BC generally relies on new survey data including ties to known control provided in survey plan datasets to improve the spatial accuracy of the mapped representation. To provide additional inputs for spatial improvements, the ParcelMap BC Operations Team has defined submission guidelines for organizations to submit cadastral ties captured outside legal survey plans.

Third Party Datasets

Third party datasets that are aligned to ParcelMap BC to better support user workflows; Agricultural Land Commission boundaries and BC Assessment fabric.

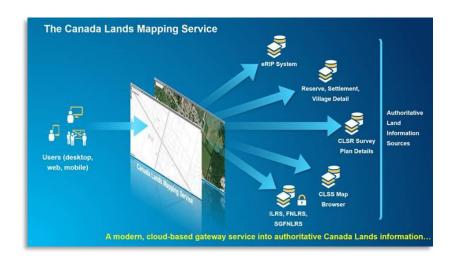


innovation.

integrity.

trust.

Example: Challenge and Opportunity



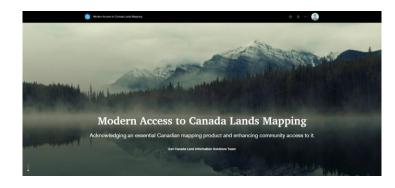
Significant and increasing demand across our customer base for the ability to:

- Access seamless, aligned, up-todate, parcel mapping across Canada
- 2. Consume parcel mapping and related content as services in desktop, web and mobile applications
- 3. Efficiently find authoritative land information about specific parcels



Opportunities: Cloud, Online, Content, Apps, Open Data

- Parcel mapping content providers and their customers increasingly adopting cloud-based solutions
- Rapidly increasing ArcGIS Online usage (online usage up by over 50% year over year)
- Massively increasing Community Map (base map, parcel map, street map, imagery) consumption:
 - Apps (Real Estate, Wildfire, Assessment, others) some over 6 million visits per app per month
 - Services like the Canada Lands Mapping Service over 350,000 requests per month
- Technology can now enable application developers with secure access to mapping services and related content through standard API's







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Example: Combining services from multiple sources



Approx.
Boundary
Line



Example: Bundled Land Information Feature Service in the ArcGIS Marketplace



A premium feature service from CoreLogic. Consists of parcel mapping bundled with select ownership attributes. Aimed at the Real Estate, Banking, Retail & Insurance Sectors.



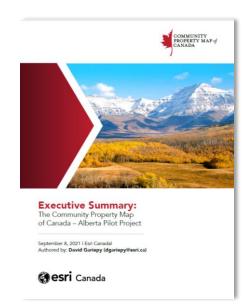
innovation.

by CoreLogic - ArcGIS Marketplace



Opportunities for parcel mapping content providers, application developers and end users...

"Many interviewees mentioned the need to become more productive and the need for content providers to be more innovative when it comes to supporting the efficient access and use of our digital land information infrastructure..."



"In addition to increasing productivity, services like this can spur innovation across the community – as new applications are developed that increase productivity and/or introduce entirely new solutions. This in turn, increases the demand for the basic land information contained in the services. The entire ecosystem benefits."



Source: CPMC Alberta Pilot Project Final Report

Summary thoughts...

 Land information is a critical digital asset for the Canadian economy and society. The land information provider community is currently being challenged by exploding demand for more efficient and higher volume access to land information.

 We're experiencing a fundamental shift in how parcel mapping and related information is being consumed.

 Modernized land information access provides an opportunity to spur innovation and increase productivity across the user community. It will also generate new business opportunities for land information providers, application developers and end users.



Please head to the Chat panel:
Poll Question Time!



Case Study: Building a Common Canvas

Jason Hart, Harterra Spatial GIS Solutions



ParcelMap BC at the City of Penticton

- City of Penticton was an earlier adopter of ParcelMap BC
 - Replaced their existing self-maintained cadastral base
 - Integrated with other business systems

- Leveraging ParcelMap BC to support operations including:
 - Service cards for water and wastewater
 - Tree trimming notification
 - Buried infrastructure locate requests automation
 - Many others...

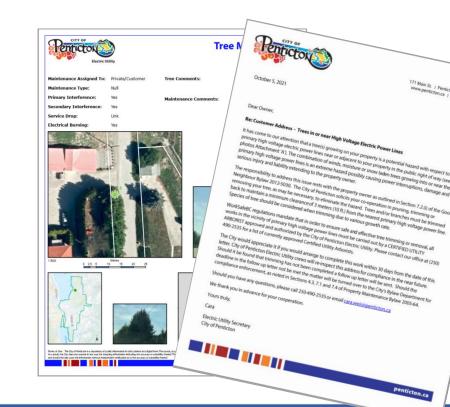


Tree trimming and notification

 Wanted efficient way to generate notifications of electrical interfering customer owned trees.

 Use field data collection to gather tree and trimming information.

 Spatial association of data collected in field with ParcelMap BC fabric



Service Utilities Report

 Historically used a non-spatial database for attributes about service and CAD for graphic representation.

Migrated data into GIS along with ParcelMap BC parcel fabric.

 Developed automated report that automatically provides dimensions to ParcelMap BC property

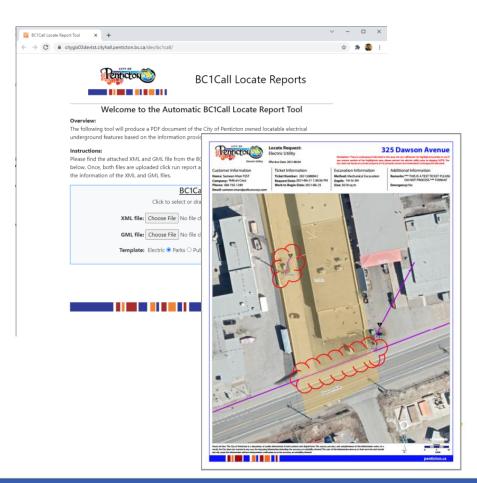


Underground locates

City responds to BC1Call requests

 Historically a very manual process to create map for response and involved multiple departments.

 Leveraged ParcelMap BC data to automate mapping for locate response.



Moderator-led Open Discussion & Take-aways



Brian Greening, Director, ParcelMap BC Products, LTSA

Tom O'Brien, Manager, Data Mgmt & Reporting, BC Assessment

Dave Horwood OLS, Land Info Systems Architect, Esri Canada

Brent Taylor BCLS CLS, Managing Director, Polaris Land Surveying

Jason Hart, Owner, Harterra Spatial Solutions

Dave Gariepy, Director, Land Information Solutions, Esri Canada



Don't forget to email ParcelMapBC@ltsa.ca if you'd like to be entered in the draw for an ArcGIS for Personal Use license courtesy of Esri!



Thank You For Participating!

Recording & Deck links will be sent out soon...

