ParcelMap BC Adoption Working Group
Land Records Integration Workshop

AWG #28: Open House

May 19th 2021

10:00am to 12:00 pm

Remote Session

Brian Greening — AWG Chair
Director, ParcelMap BC Products, LTSA

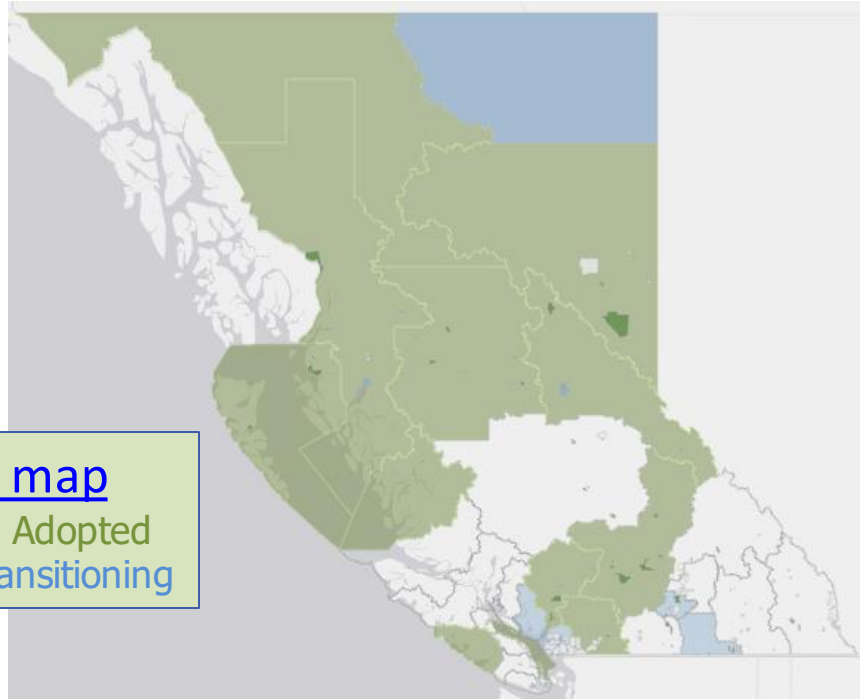
Steve Mark — AWG Vice-Chair
Director of Operations, ICI Society

Agenda

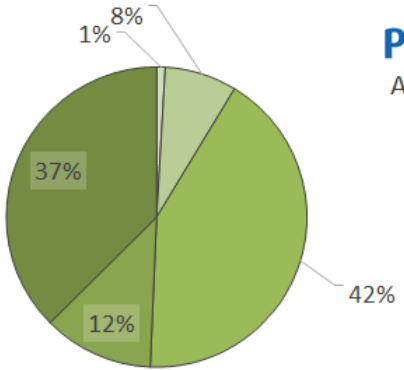
Welcome / Opening Remarks (10 min)	10:00 am
BC Assessment Fabric: (15 min) - *Tom O'Brien, BC Assessment* • Assessment Fabric Data Model • ParcelMap BC & the Assessment Fabric: Which should I use and when?	10:10 am
First Looks at Integrating ParcelMapBC and Tempest with Scripts and Databases: (15 min) - *Brian Goble, District of Sooke* • Overview of Python scripts to explore linking Tempest Land records to ParcelMapBC parcel records • Overview of relating Tempest Land records to GIS ParcelMapBC records in SQL databases	10:25 am
Integration of ParcelMap BC with Land Records through Esri Web Apps: (15 min) - *Jason Hart, Harterra Spatial Solutions* • A look at real-world examples of different patterns and approaches for integrating ParcelMapBC and Tempest or other Land Records systems through ArcGIS Enterprise and Web AppBuilder • Using change detection for data loading into an Enterprise Geodatabase to avoid administrative headaches and to provide a history of parcel changes over time	10:40 am
Integrating ParcelMap BC with iCity/Vadim: (10 min) - *Barry McLane, City of Rossland* • ParcelMap BC/iCity integration using ArcGIS Pro	10:55 am
Land Records Resources & ICI Society's Collaboration Portal: (5 min) - Steve Mark, ICI Society • Resources available to ICI Society Members for ParcelMap BC • Best Practices • Documentation • Forum to post ParcelMap BC related Questions	11:05 am
Fitting the Pieces Together: Land Records Integration & Transition Planning: (15 min) - *Irshad Jamal, LTSA & John Samulski, LTSA/SVG* • Land Records Integration Within Overall Transition to ParcelMap BC • Available Resources and Their Function Within Transition Planning and Execution	11:10 am
Questions, Feedback & Presentation Wrap-Up (5 min)	11:25 am
Open Café/Cocktail Discussion (30 min)	11:30 am

ParcelMap BC Adoption Snapshot

Full Dashboard details here



LIVE map
Green = Adopted
Blue = Transitioning



ParcelMapBC
Adopters by State

Adopter Groups by State	No Access	Access	Assessing	Transitioning	Adopted	Total
Local Governments using ICF	0	1	22	4	45	72
Provincial Groups using ICF	0	0	4	2	2	8
Local Governments who Self Maintain	1	15	60	16	27	119
Parcel Consumers using ICIS Cadastre	1	1	6	2	6	16
ICI Society (Internal)	0	0	0	2	0	2
LTSA (Internal Use)	0	0	0	0	2	2
	2	17	92	26	82	219

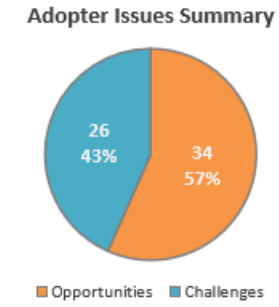
ParcelMap BC Adoption Working Group (AWG)

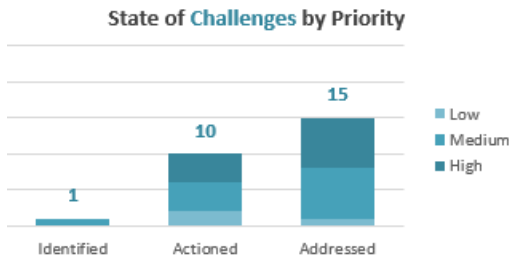
AWG created in mid-2018 in conjunction with the ICI Society as a forum to address issues related to the adoption of ParcelMap BC.

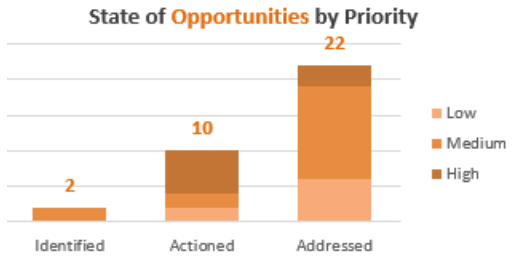
~30 participants including local governments, provincial ministries, land surveyors, utilities and other stakeholders

Highlights of achievements include:

- Improved product documentation and associated resources
- Alignment of key 3rd party maintained datasets, including the Agricultural Land Reserve (ALR) boundaries and BCA's Assessment Fabric;
- Creation of the Data Alignment Sub-Group, aimed at developing workflows and tools to support aligning data with ParcelMap BC;
- New resources, including an app, to publicly share operational plans and progress related to spatial improvements
- Development of Transition Planning Resources to facilitate activities related to adopting ParcelMap BC
- **Creation of the Land Records Sub-Group, focused on the integration of ParcelMap BC with land records systems…**







innovation. | integrity. | trust.

ParcelMap BC Adoption & Land Records Integration

Background / Introduction:

A key focus area identified by the AWG was the need to support linkages between **ParcelMap BC parcel records** and various **Land Records data management environments** maintained within the various Adopter organisations.

A poll of the Adopter community revealed that while *Tempest* dominates the install base within the Local Government Adopter community, there is significant representation of other platforms such as *iCity/Vadim* and *Diamond*.

A number of resources have been developed by the "Team Land Records" subgroup to support linking ParcelMap BC with local Land Records management data and maintaining those linkages.

This workshop is a showcase for those resources to raise awareness and promote use of these resources among the larger ParcelMap BC Adopter community.

BC ASSESSMENT

Assessment Fabric and Data Advice

Tom O'Brien, Senior GIS Analyst

May 19, 2021

Assessment Fabric

- Created from multiple sources
- Georeferenced with BC Assessment folios – roll number
- Provides a roll based spatial representation of the properties
- Often times is many to one relationship with source spatial data
    - Example – Many PID's to one roll number
    - Example – Many crown tenure polygons to one roll number
- Shared through ICI Society membership

Assessment Fabric
Spatial Data Sources

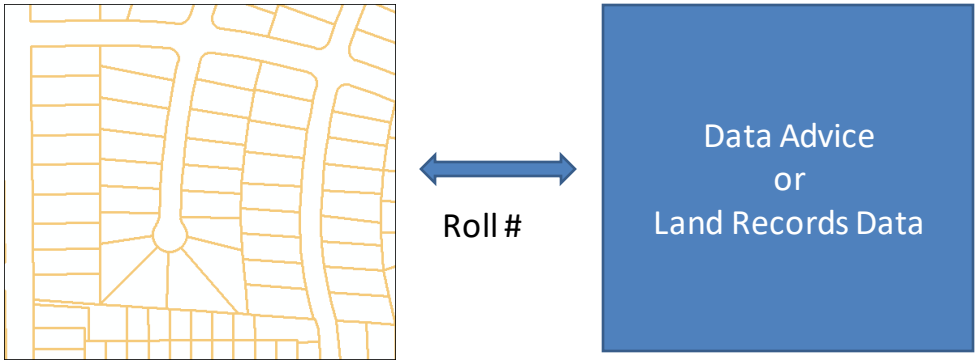
- Parcel Map BC
- ICI Society Cadastre
- NRCAN – First Nations Parcels
- Crown Tenures
- Survey Parcels
- <Oil and Gas> internal only
- Some other sources too…

Data Advice

- Provided to local governments as a data file
- Formatted to be compatible with land records systems (Vadim, Tempest, etc.)
- Not designed for ease of use with GIS

What we are interested in…

- Is the Data Advice or Land Records data more easily related to the Assessment Fabric due to the roll based nature of both products?



Assessment Fabric

First Looks at Integrating ParcelMapBC and Tempest with Scripts and Databases

Brian Goble, District of Sooke

Python Script linking ParcelMapBC with Tempest Land Records

Input Tables:

1. Tempest.Land_Legal
2. PMBC Jurol_PID_X_Reference
3. PMBC Parcel_Polygon
4. PMBC Shared_Geometry
5. PMBC Plans

Output Table: TempestLink

TempestLink Look-Up Table

Field	Type	Source	Comments
PropertyNumber	Long Integer	Tempest Property Number	Optional. Tempest system generated value.
GISLINK	Long Integer	Tempest Map Reference	Required for the Web Map integration with Tempest Land.
Folio	Text	PMBC Jurol_PID_X_Reference	BC Assessment Roll Number – In PMBC, only available for PID
PID	Text	PMBC Jurol_PID_X_Reference	Not all properties have PIDs (e.g., Park, Road).
Plan	Text	Tempest Plan	From Tempest. Used to update link to Shared Geometry records
pmbcParcelID	GUID	PMBC GlobalID	KEY to linking Tempest Record to a PMBC polygon.
pmbcPlanID	Long Integer	PMBC PlanID	Used to update link to Shared Geometry records
pmbcDescription	Text	PMBC LegalDescription	Optional. Used to validate results.
tempestLegalID	Text	Tempest Land Legal ID	Tempest ID for Tempest.Land_Legal records. Relates to other tables.

TempestLink

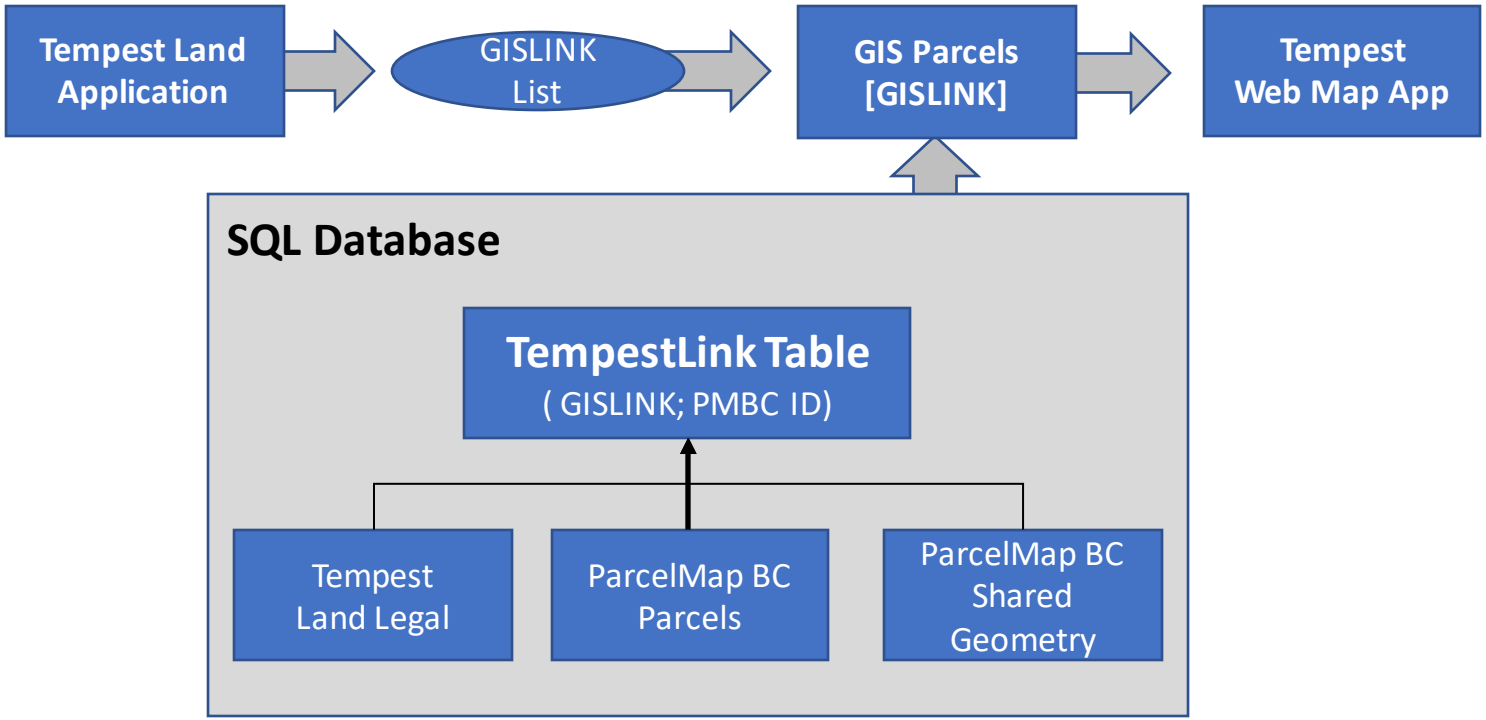
OBJECTID *	PropertyNumber *	GISLINK *	Folio *	PID *	Plan	pmbcParcelID	pmbcPlanID	pmbcDescription	tempestLegalID
4763	108442	8193	10444.000	001-063-928	VIP1525	{4478514A-B856-44F4-8CD2-AA5B7A6B79A2}	117881	LOT 38, SECTION 36, SOOKE DISTRICT, PLAN 152	06251C180912094333144001
2653	108490	8191	10334.000	009-394-184		{88ED45AC-FE38-4AE4-94B6-FAC01E3562FD}	<Null>	SECTION 21, SOOKE DISTRICT, EXCEPT THE EAST	09470C181018093215570101
771	108331	8189	09626.110	030-749-310	EPS5280	{CCFBD881-C7ED-4473-89FF-AFC1DEC130CD}	5513192	STRATA LOT 10 DISTRICT LOT 3 SOOKE DISTRICT	00823C180719092441077014
770	108330	8188	09626.109	030-749-301	EPS5280	{CCFBD881-C7ED-4473-89FF-AFC1DEC130CD}	5513192	STRATA LOT 9 DISTRICT LOT 3 SOOKE DISTRICT	00823C180719092441065850
769	108329	8187	09626.108	030-749-298	EPS5280	{CCFBD881-C7ED-4473-89FF-AFC1DEC130CD}	5513192	STRATA LOT 8 DISTRICT LOT 3 SOOKE DISTRICT	00823C180719092441055828
768	108328	8186	09626.107	030-749-280	EPS5280	{CCFBD881-C7ED-4473-89FF-AFC1DEC130CD}	5513192	STRATA LOT 7 DISTRICT LOT 3 SOOKE DISTRICT	00823C180719092441044861
767	108327	8185	09626.106	030-749-271	EPS5280	{CCFBD881-C7ED-4473-89FF-AFC1DEC130CD}	5513192	STRATA LOT 6 DISTRICT LOT 3 SOOKE DISTRICT	00823C180719092441034001
766	108326	8184	09626.105	030-749-263	EPS5280	{CCFBD881-C7ED-4473-89FF-AFC1DEC130CD}	5513192	STRATA LOT 5 DISTRICT LOT 3 SOOKE DISTRICT	00823C180719092441011832
765	108325	8183	09626.104	030-749-255	EPS5280	{CCFBD881-C7ED-4473-89FF-AFC1DEC130CD}	5513192	STRATA LOT 4 DISTRICT LOT 3 SOOKE DISTRICT	00823C180719092441001859
764	108324	8182	09626.103	030-749-247	EPS5280	{CCFBD881-C7ED-4473-89FF-AFC1DEC130CD}	5513192	STRATA LOT 3 DISTRICT LOT 3 SOOKE DISTRICT	00823C180719092440987909
763	108323	8181	09626.102	030-749-239	EPS5280	{CCFBD881-C7ED-4473-89FF-AFC1DEC130CD}	5513192	STRATA LOT 2 DISTRICT LOT 3 SOOKE DISTRICT	00823C180719092440975961
762	108322	8180	09626.101	030-749-221	EPS5280	{CCFBD881-C7ED-4473-89FF-AFC1DEC130CD}	5513192	STRATA LOT 1 DISTRICT LOT 3 SOOKE DISTRICT	00823C180719092309145944

Update TempestLink Script (Python)

```
Executing: Script-TempestLandLegalUpdate

Start Time: Mon May 17 09:25:44 2021

Running script Script-TempestLandLegalUpdate...

Purging old Tempest Land Legal Table records...

Appending Tempest Land Legal Table from
 Records = 8708

Purging old Tempest Link Table records...

Appending PMBC Parcel Polygons to TempestLink table...
 Records in Parcel Polygon = 7923

Appending PMBC Shared Geometry to TempestLink table ...
 Records in Shared Geometry = 1607

Updating TempestLink.Folio from pmbcdurol_PID_X_Reference table ...
Updating TempestLink.Plan from pmbcPlans table ...
Updating TempestLink.GISLINK from pmbcTempestLandLegal table ...
Updating TempestLink.GISLINK for PARKS from pmbcTempestLandLegal table ...
Updating TempestLink.GISLINK for STRATA COMMON PROPERTY from pmbcTempestLandLegal ...
Updating TempestLink.GISLINK for RETURN TO CROWN from pmbcTempestLandLegal table...
Updating TempestLink.GISLINK for matching PID from pmbcTempestLandLegal table ...
Flagging TempestLink.GISLINK for Strata Plans from pmbcTempestLandLegal ...
Updating TempestLink.pmbcParcelGUID from pmbcParcelPolygon table for Strata Lots ...

Summarizing TempestLink.GISLINK for Folios...
 Total Records in TempestLink = 9530
  NULL Folio Records  = 1198
  NULL GISLINK Records =  3042

--- Finished ---

Completed script Script-TempestLandLegalUpdate...

Succeeded at Mon May 17 09:43:14 2021 (Elapsed Time: 17 minutes 30 seconds)
```

- Processed 9,530 TempestLink records in 17 minutes.
- The TempestLink table includes all records from ParcelMap BC regardless of Municipality/Jurisdiction.
- Challenges for Linking:
  - Dedicated Parks with multiple parcel land records
  - Dedicated Roads (historical) not recorded in PMBC
  - Different representations of Strata in PMBC and GIS

Proposed SQL Database Views



Integration of ParcelMap BC with Land Records Systems through Esri Web Apps

May 19, 2021

HARTERRA
SPATIAL SOLUTIONS

Jason Hart
Owner /GIS Specialist
jason.hart@harterra.com

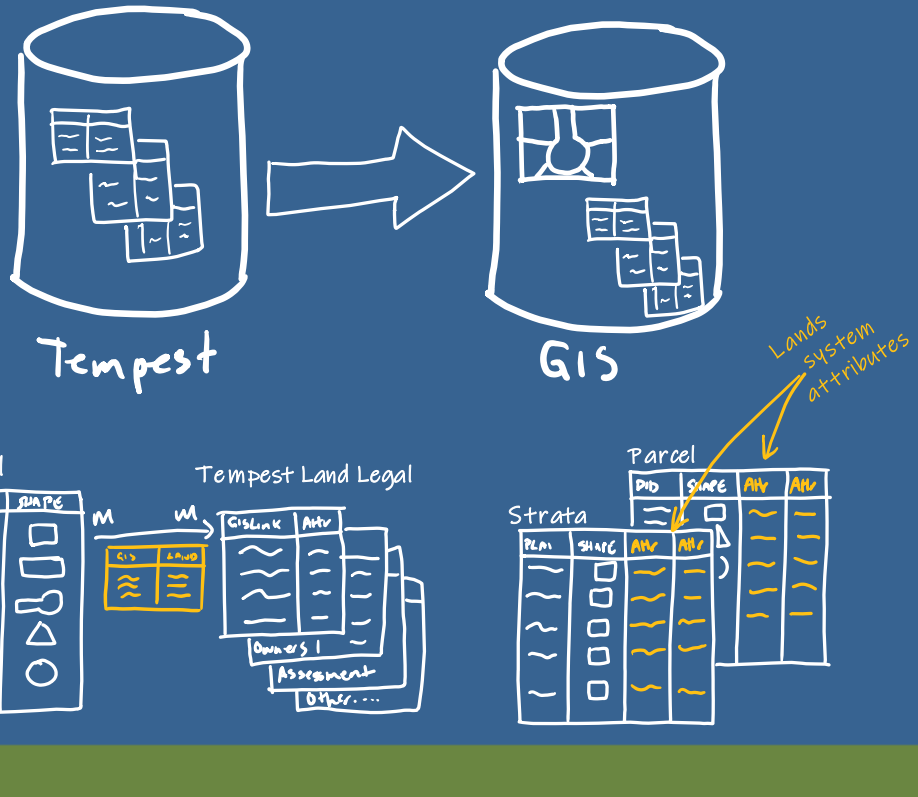
Patterns to Integrating Land Systems and GIS

Common approaches we have used with clients

ELT Approach

Database level extract, load and transformation (ELT)

- Using scripts and/or tools (SQL, data base links, Python, FME) to move data from Lands System into GIS tables.
- May be a relational data structure.
- Tools may be used to flatten data or relate lands data to ParcelMap BC Parcels or to BC Assessment.



Using an ELT Approach in Web Appbuilder

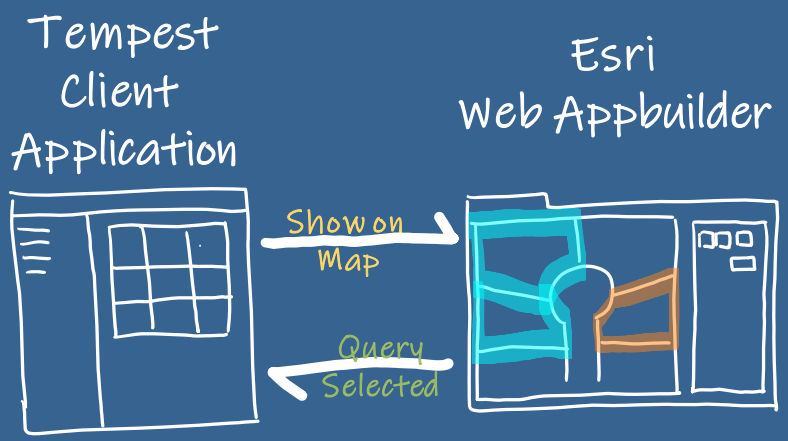
- Publish GIS data (including that from the lands system) as a service through ArcGIS Enterprise
- Two options to use in Web Appbuilder:
  - Out-of-box
    - Flattened data (single table) is better
    - Use tools like the public notification widget and standard pop-ups
  - Purpose built widget
    - Widget understands the data and structure
    - Presents data so people see and navigate the structure easily and efficiently
    - Has behaviours that allow users to navigate data easily

Pros and Cons of ELT Approach

- Cons:
  - Lots of moving parts and duplication of data
  - Hard to really get working nicely with just out-of-the-box tools
- Pros:
  - Use data in desktop, mobile and web GIS tools
  - Gives users access to data at their finger-tips

Pushing Parcels of Interest Approach

- This doesn't involve moving data between systems, rather parcels of interest (details on the selected records)
  - This is an approach we use for Tempest not Vadim
  - Pushes and pulls GISLINK field for selected parcels between Tempest and GIS
  - Relies on …
    - Built-in Tempest functionality
    - Custom tool to open a web browser
    - Custom widget in Web Appbuilder
    - GISLINKs to be populated in Tempest and GIS



Using a Parcel selection wih Web Appbuilder

- Publish as a service through ArcGIS Enterprise
  - Link to Tempest database tables using ArcGIS Server to allow data to be accessed through REST service
    - one that is read-only (GIS Layer and Land Legal Tables)
    - one that is read/write (Session Details) for pushing selected parcel identifiers
- Use custom widget to handle selection interaction
  - Displaying selected properties pushed from Tempest on opening of Web App
  - Selection of parcels
  - Pushing parcels selected into the Session table when the selection changes in Web Appbuilder

Using a Parcel selection with Web Appbuilder

- Widget handles updates to session details table in Tempest through R/W REST Service including:
  - 1..M between Tempest tables and ParcelMap BC Parcels.
  - M..M between Tempest tables and ParcelMap BC Parcels using “joining” table
- Requires GISLINK populated in Tempest and GIS

Pros and Cons of Pushing Parcels of Interest Approach

- Cons:
  - No Tempest data is available in GIS for other purposes (mapping, queries)
  - Requires a custom DLL to open Web Appbuilder in Tempest

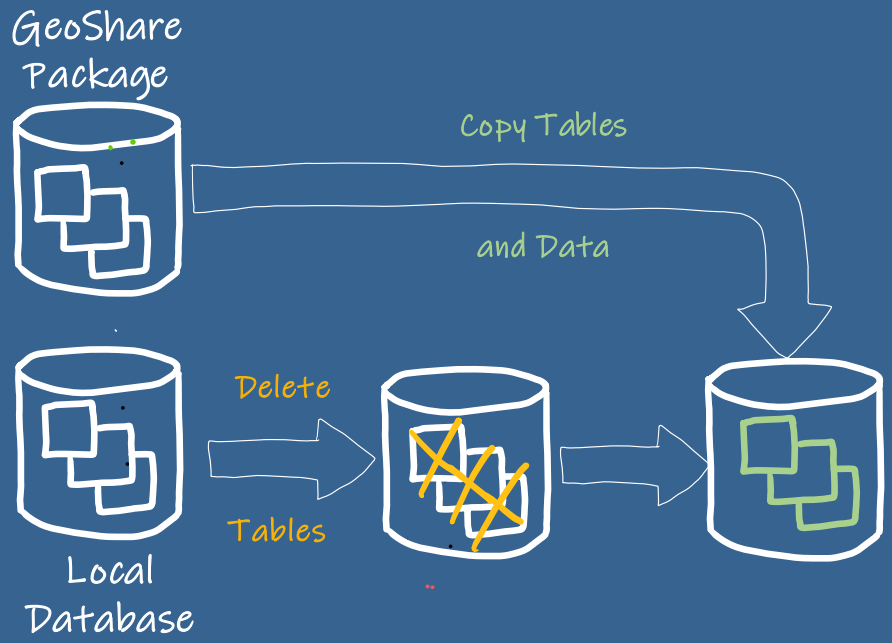
- Pros:
  - Allows users to perform other workflows in Tempest on selected parcels
    - Example: notifications
  - No Tempest needs to be migrated into or duplicated in the GIS database

Loading ParcelMap BC Into Enterprise

Approaches to loading data into an esri Enterprise Geodatabase

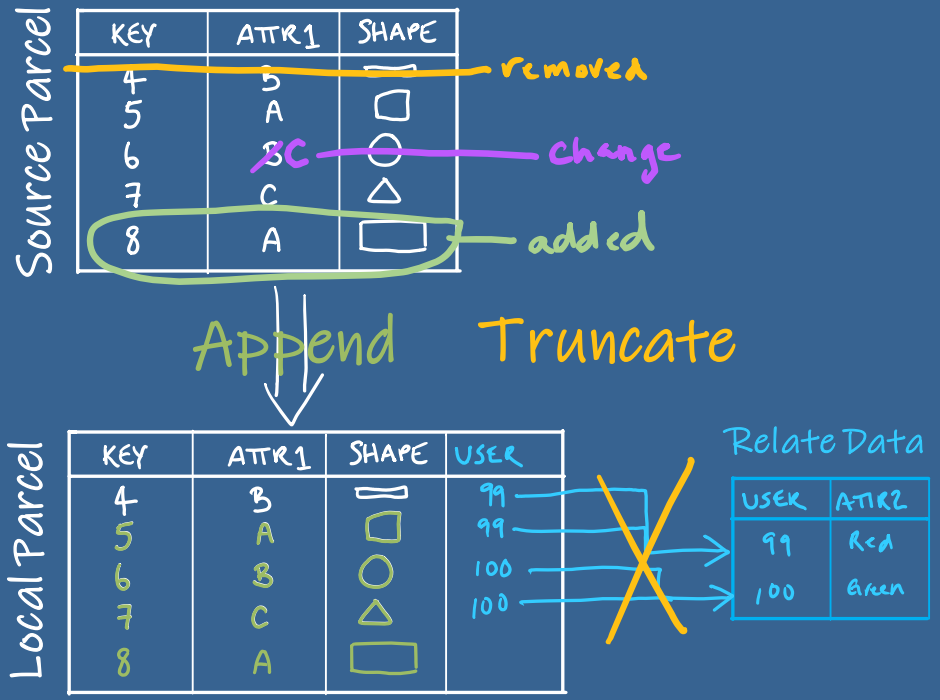
Drop and Copy

- Drop or delete the local feature classes and tables and copy the latest ParcelMap BC feature classes and tables into your database
  - Pros:
    - Automatically get ParcelMap schema changes
    - Simple to do manually or with simple tools that are not too complex
  - Cons:
    - Any service or applications must be disconnected (requires exclusive schema lock)
    - Value add attributes or related information must be repopulated or re-linked.
    - GlobalIDs and ObjectIDs change



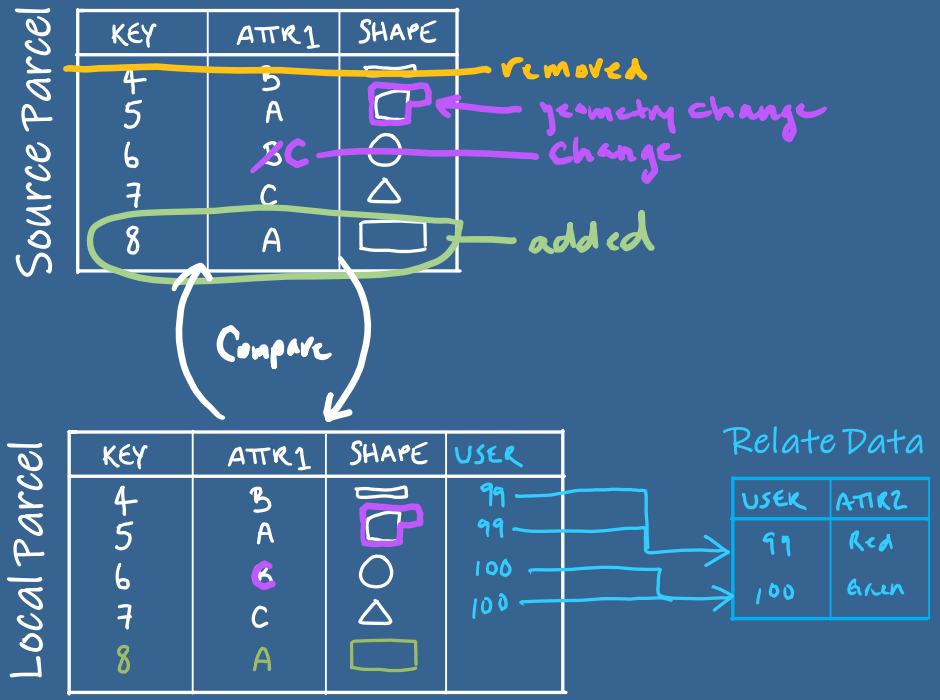
Truncate and Append

- Truncate (delete) all the rows in the local feature classes and tables and re-insert the records from ParcelMap BC
  - Pros:
    - Services or app connections do not need to be disconnected (no exclusive schema lock)
    - Simple to do manually or with simple scripts
  - Cons:
    - Value add attributes or related information must be repopulated or re-linked
    - Slower to insert data into existing data
    - Has impacts on database
    - Schema doesn't change automatically with ParcelMap BC
    - Theoretically could run out of ObjectIDs
    - History (archiving) could get large
    - GlobalIDs and ObjectIDs change for the same parcel



Detect Changes and Update

- Compare your local feature classes and tables to ParcelMap BC package from ICI Society and update attributes/shapes, delete or insert new parcels.
  - Pros:
    - Services or app connections do not need to be disconnected (no exclusive schema lock)
    - Value add attributes or related information do not have to repopulated or re-linked
    - Detecting changes allows for automated notification. (i.e. a new parcel has arrived)
    - Allows you to more realistically keep a history (archive) of all the changes
    - You can have your own cycle to your updates (can skip a package)
  - Cons:
    - Can get really slow if ParcelMap BC changes a lot of things (spatial improvements)
    - Schema doesn't change automatically with ParcelMap BC



Approaches Compared to Change Detection

- Real-world example of change detection approach
  - On a set of approximately 23,000 parcels polygons with weekly updates
  - Since 2018 there have been around 2.1 million** changes (attributes, inserts, shape changes) to parcels
  - Since January 1, 2021 only 1,044 changes… so we would expect this to be typically on the order of 1000's or perhaps 10,000's of changes per year
- Truncation/deletion and appending records
  - 5.9 million deletes and inserts.
- Dropping /deleting feature classes and tables
  - The tables dropped and recreated 129 times
  - 3 million rows copied and inserted

Week	Parcels Removed	Parcels Added	Parcels Changed	Execution Time (m:s)
05/15/2021	4	9	29	04:24
05/08/2021	8	46	62	03:57
05/01/2021	0	0	0	03:38
04/24/2021	4	5	30	03:54
04/17/2021	0	1	6	03:42
04/10/2021	0	0	5	03:38

Week	Parcels Removed	Parcels Added	Parcels Changed	Execution Time (m:s)
05/15/2021	4	9	29	04:24
05/08/2021	8	46	62	03:57
01/04/2020	0	0	22389	26:33

*** High number likely most due to early changes where things were getting changed regularly and during early days of PMBC and the change management tools*

GDB Archiving of ParcelMap BC

- Using archiving (history) on the geodatabase and change detection approach to updates provides insights and supports…
  - Workflows for alignment of local datasets with ParcelMap BC
  - Systems integration
  - Issue resolution to parcel changes
  - And so much more

Questions?

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HARTERRA
SPATIAL SOLUTIONS

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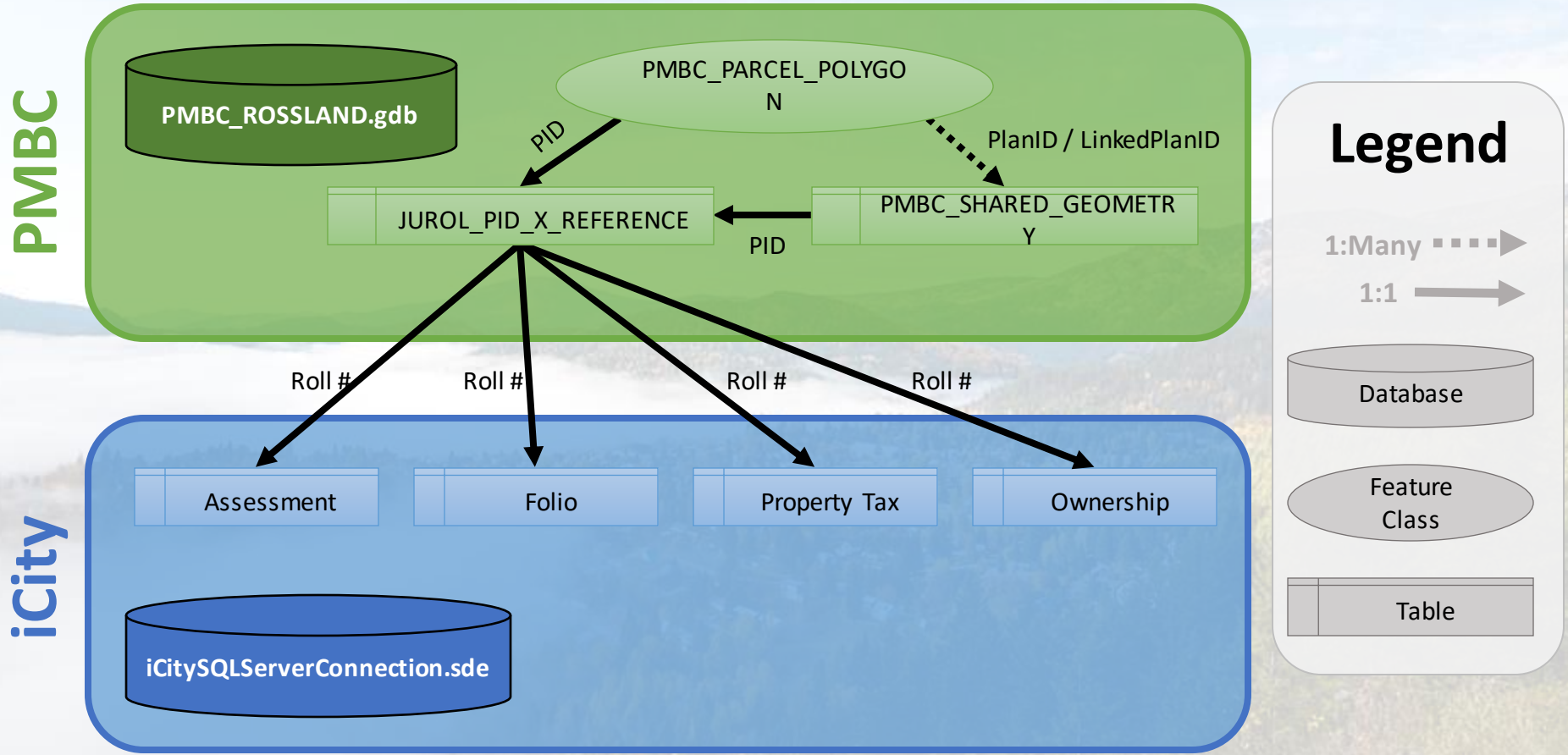
Integrating ParcelMap BC with iCity/Vadim

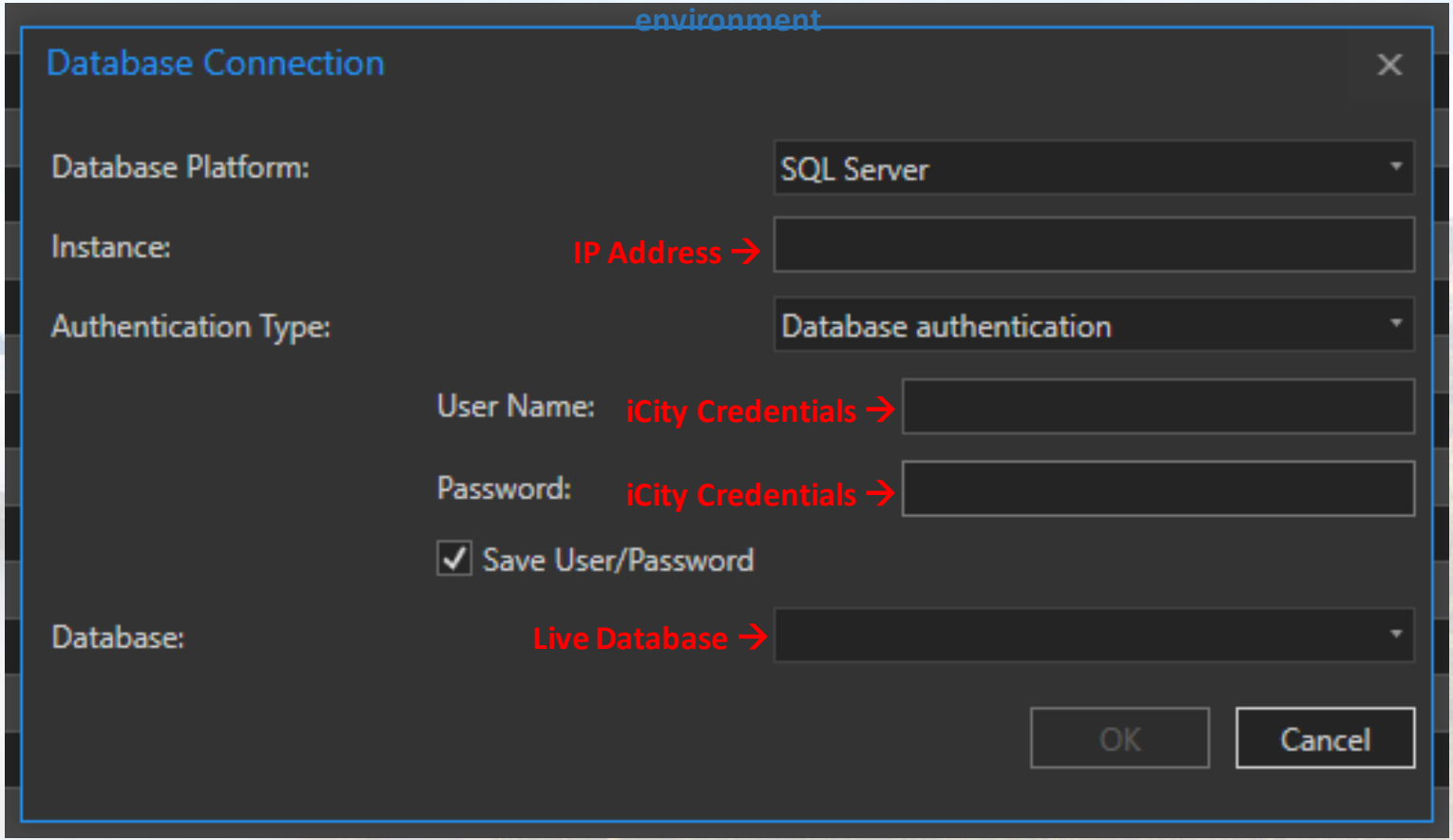
Barry McLane, City of Rossland

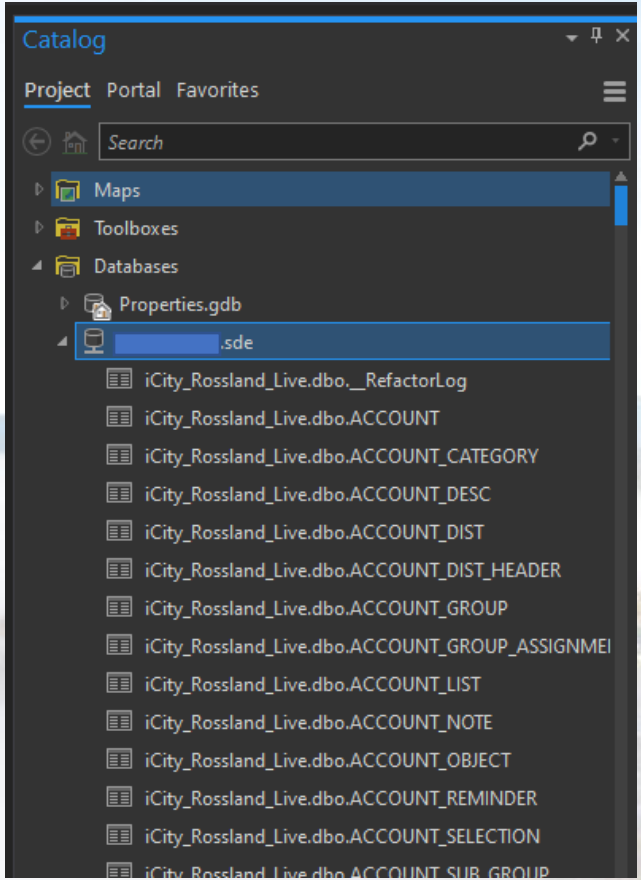
PMBC – iCity Relationship Model



iCity Database Connection (ArcGIS Pro)

Whitelist your GIS's local IP address with the hosted environment





- PT_ASSESSMENT
- PT_FOLIO
- v_pt_trans_smry
- V_CS_PROPERTY_MAILING_ADDR

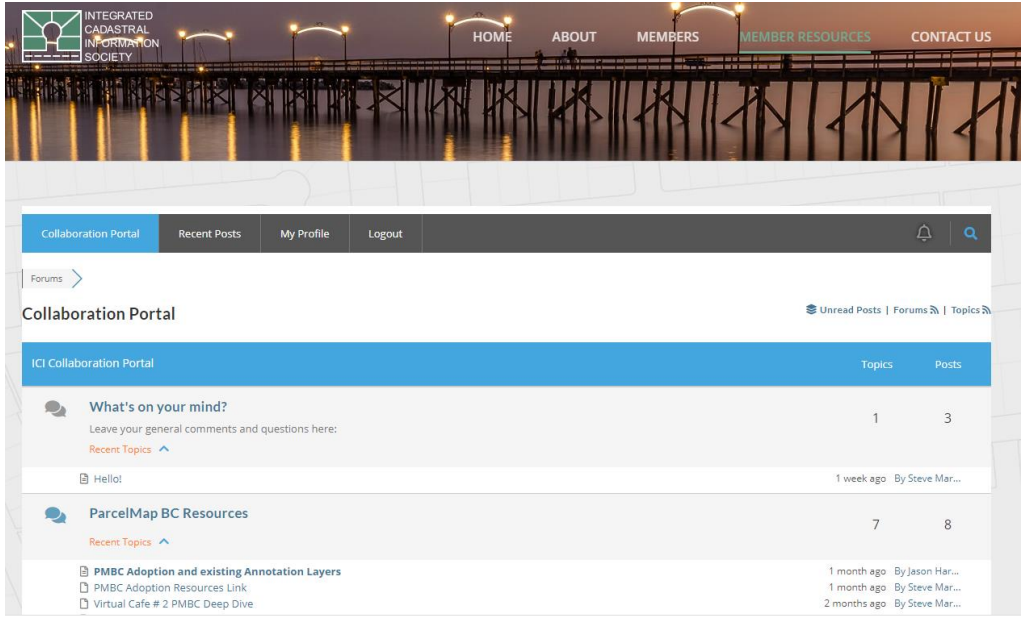
Thanks for hosting!

Land Records Resources & ICI Society's Collaboration Portal

Steve Mark, ICI Society

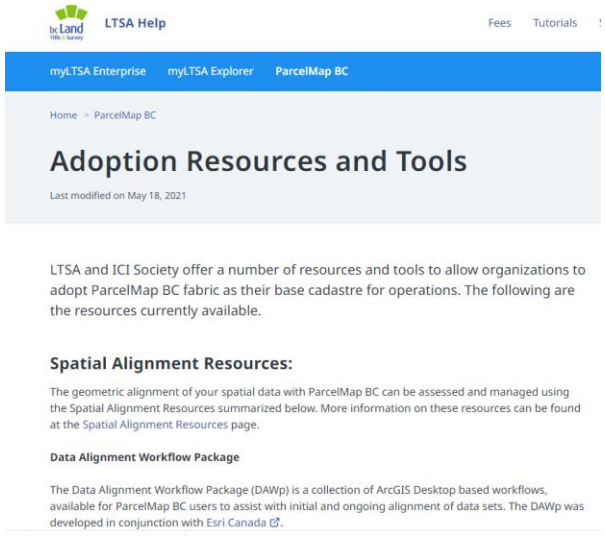
Collaboration Portal

- Share Ideas
- Best Practices
- Meta-Data
- User Forum



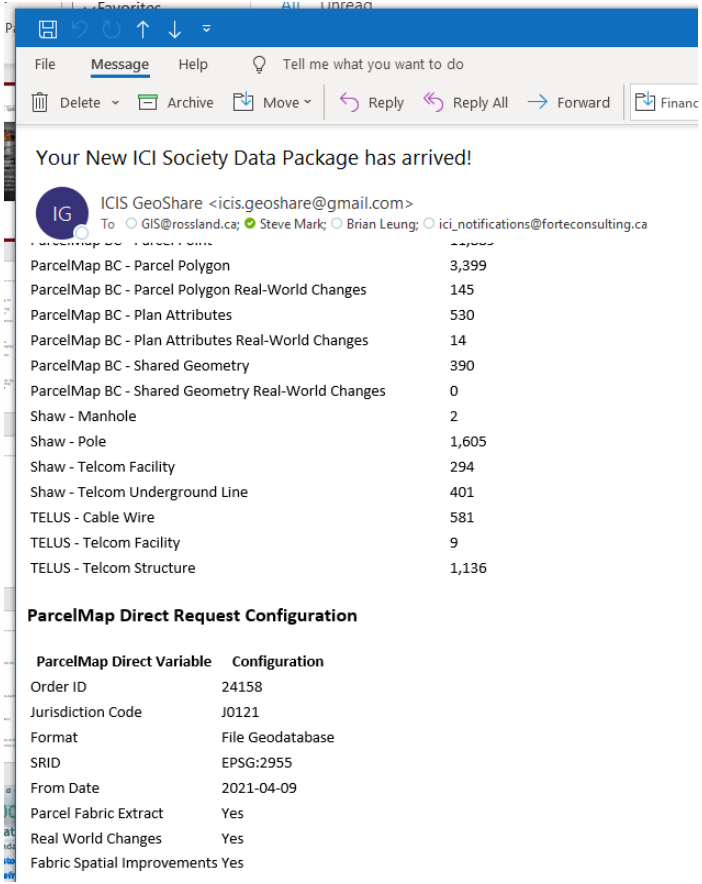
PMBC Resources

- Virtual Cafe
- PMBC Links
- ICI Society Member - Metadata



ICI Society Data Packages

- PMBC Data
- Utilities Data
- Customized Deliveries
- Real World Changes
- Weekly re-fresh



File Message Help Tell me what you want to do

Delete Archive Move Reply Reply All Forward

Your New ICI Society Data Package has arrived!

IG ICIS GeoShare <icis.geoshare@gmail.com>

To GIS@rossland.ca; Steve Mark; Brian Leung; ici_notifications@forteconsulting.ca

ParcelMap BC - Parcel Polygon	3,399
ParcelMap BC - Parcel Polygon Real-World Changes	145
ParcelMap BC - Plan Attributes	530
ParcelMap BC - Plan Attributes Real-World Changes	14
ParcelMap BC - Shared Geometry	390
ParcelMap BC - Shared Geometry Real-World Changes	0
Shaw - Manhole	2
Shaw - Pole	1,605
Shaw - Telcom Facility	294
Shaw - Telcom Underground Line	401
TELUS - Cable Wire	581
TELUS - Telcom Facility	9
TELUS - Telcom Structure	1,136

ParcelMap Direct Request Configuration

ParcelMap Direct Variable	Configuration
Order ID	24158
Jurisdiction Code	J0121
Format	File Geodatabase
SRID	EPSG:2955
From Date	2021-04-09
Parcel Fabric Extract	Yes
Real World Changes	Yes
Fabric Spatial Improvements	Yes

Fitting the Pieces Together: Land Records Integration & Transition Planning

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Land Records Integration and Transition Planning

A little more background…

- In 2020 a Large Municipality Focus Group (LMFG) was established to examine issues associated with large municipality Adoption of ParcelMap BC. (City of Vancouver, City of Surrey, City of Burnaby, District of North Vancouver, Township of Langley, City of Kamloops*)
- All LMFG participants have mature Land Records system(s) with one or more integrations to their current parcel fabric which must be maintained.
- One of the outputs of the LMFG effort is a **Transition Project Management Guide** has been developed by LTSA to assist organisations with planning and execution of their Transition to ParcelMap BC adoption.

Where do the Land Records Integration resources fit in my Transition to ParcelMap BC adoption?

- Recommended Transition activities in the guide are broken into two phases: **Planning** & **Execution**.
- A key Task Area of the Planning Phase is a detailed **Situation Assessment**, which includes **integrations** and **interfaces** between the **Parcel Fabric** and **Land Records systems and data**.

Transition Project Management Guide

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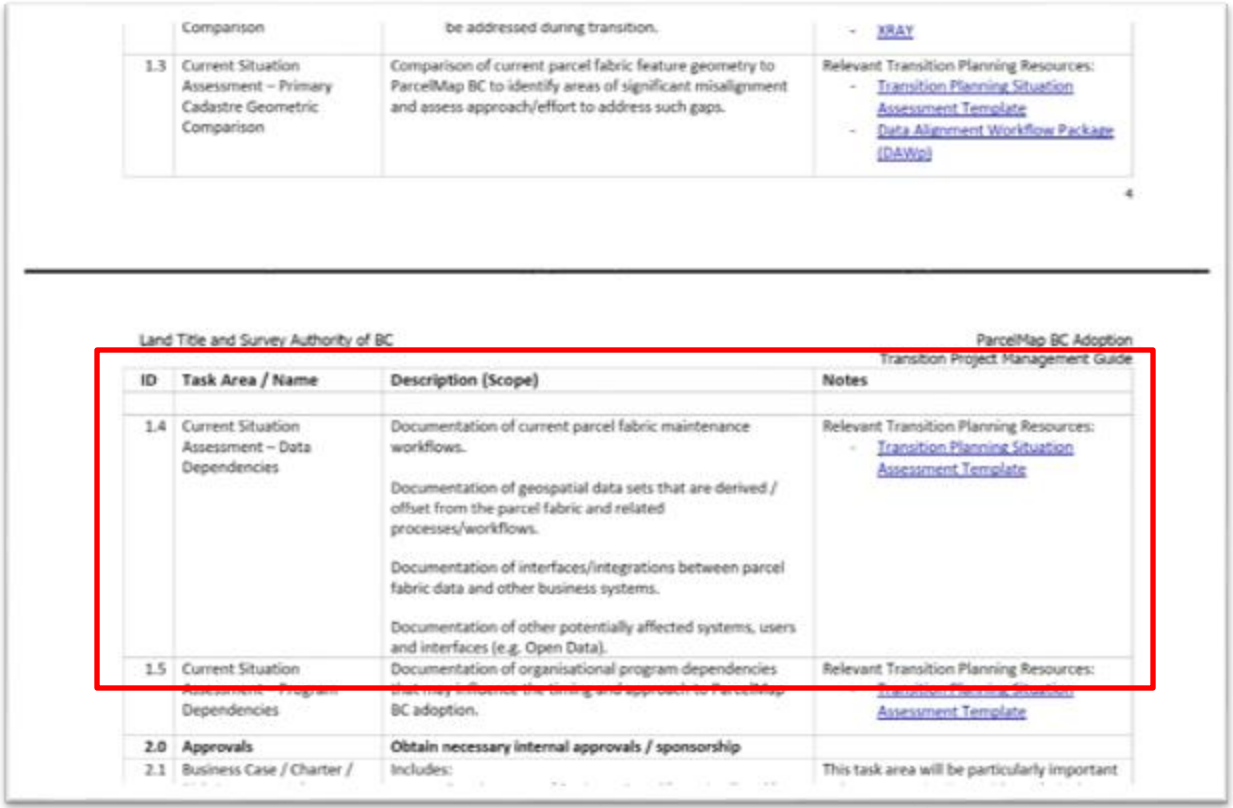
Transition Project Management Guide - WBS



	Comparison	be addressed during transition.	- XRAY
1.3	Current Situation Assessment – Primary Cadastre Geometric Comparison	Comparison of current parcel fabric feature geometry to ParcelMap BC to identify areas of significant misalignment and assess approach/effort to address such gaps.	Relevant Transition Planning Resources: - Transition Planning Situation Assessment Template - Data Alignment Workflow Package (DAWp)

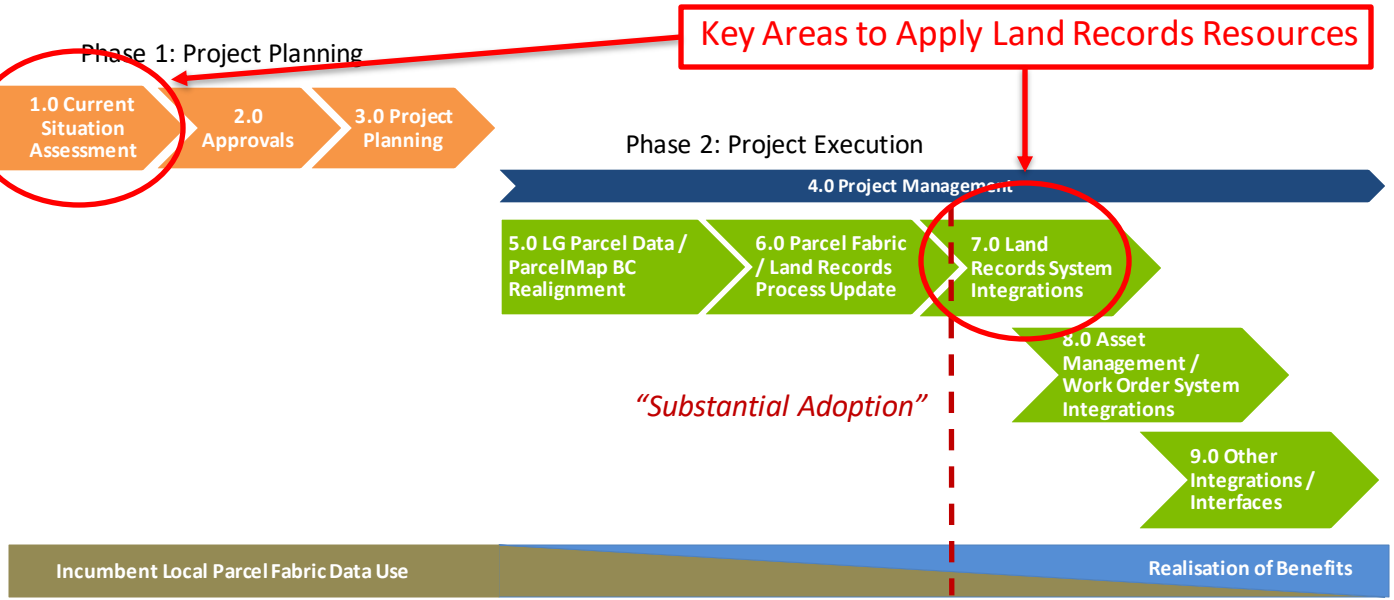
4

Land Title and Survey Authority of BC — ParcelMap BC Adoption Transition Project Management Guide

ID	Task Area / Name	Description (Scope)	Notes
1.4	Current Situation Assessment – Data Dependencies	Documentation of current parcel fabric maintenance workflows. Documentation of geospatial data sets that are derived / offset from the parcel fabric and related processes/workflows. Documentation of interfaces/integrations between parcel fabric data and other business systems. Documentation of other potentially affected systems, users and interfaces (e.g. Open Data).	Relevant Transition Planning Resources: - Transition Planning Situation Assessment Template
1.5	Current Situation Assessment – Program Dependencies	Documentation of organisational program dependencies that may influence the timing and approach to ParcelMap BC adoption.	Relevant Transition Planning Resources: - Transition Planning Situation Assessment Template
2.0	**Approvals**	**Obtain necessary internal approvals / sponsorship**	
2.1	Business Case / Charter /	Includes:	This task area will be particularly important

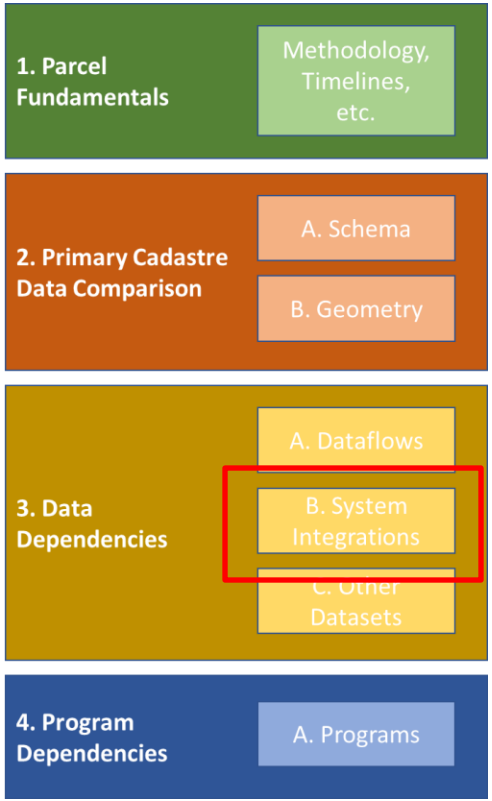
Transition Steps:

Key Transition Steps and Milestones:



"Substantial Adoption" is achieved when ParcelMap BC data supersedes the incumbent self-maintained parcel fabric data as the primary source for truth for the geometric representation of parcel features.

Situation Assessment Template Thematic Areas



Situation Assessment Template - Details

Section	Title & Description	Q #	Column Title	Questions Description	Example
1	**Parcel Fundamentals**				
	In this worksheet, describe the fundamental aspects of how your organization views and uses a parcel fabric.				
		Q1-01	Parcel "Methodology"	What is the primary business identifier you use to uniquely identify parcels?	
		Q1-02	Parcel Timelines	What parts of the parcel lifecycle do you represent: Only active legal parcels? "Proposed / planned" parcels? Historic (inactive) parcels?	
		Q1 03	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?	
		Q1-04	High-level Dataflows	What information flows (sources) inform your parcel maintenance? e.g. LTSA feeds, BCA Feeds, Internal triggers (from who/where)? Other?	
		Q1-05	Top 3 Challenges	What are the biggest challenges with your current parcel data and maintenance workflows?	
2	**Primary Cadastre Data Comparison (Schema)**				
	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. In a future phase of the work, analysts will resolve these issues.				
	A. Parcel Schema	Q2A-01	Primary Cadastre Data Issue Identifier (PK)	Unique identifier (DATA-Sxx) for the gap / issue being described. Can be used in the next table.	DATA01
		Q2A-02	Primary Cadastre: Geodatabase Name	Name of your geodatabase that contains the primary cadastre data	
		Q2A-03	Primary Cadastre: Feature Dataset Name	Name of feature dataset that contains the primary cadastre data	
		Q2A-04	Primary Cadastre: Feature Class or Table Name	Name of feature dataset that contains the primary cadastre data. Table may be standalone.	
		Q2A-05	Primary Cadastre: Attribute Name	Name of feature attribute / field.	
		Q2A1-06	Primary Cadastre: Domain Name	Name of domain.	
		Q2A-07	ParcelMap BC: Feature Class / Table Name	Name of PMBC Feature Class or Table associatd with the gap / issue described below.	
		Q2A-08	ParcelMap BC: Attribute Name	Name of PMBC Feature Class or Table associatd with the gap / issue described below.	
		Q2A-09	ParcelMap BC: Domain Name	Include a domain name if applicable.	
		Q2A-10	Gap/Fit Number	Simple sequential id	
		Q2A-11	Gap/Fit Name	Name of the gap/issue or fit that has been identified <<<need them to confirm the minimum "17" attributes>>	
		Q2A-12	Gap/Fit Description	Description of the gap/issue or fit that has been identified	
	B. Parcel Geometry	Q2B-01	Parcel Geometry Issue Identifier (PK)	Unique identifier (DATA-Gxx) for the gap / issue being described. Can be used in the next table.	
		Q2B-02	Primary Cadastre: Geodatabase Name	Name of your geodatabase that contains the primary cadastre data	
		Q2B-03	Primary Cadastre: Feature Dataset Name	Name of feature dataset that contains the primary cadastre data	
		Q2B-04	Primary Cadastre: Feature Class	Name of feature dataset that contains the primary cadastre data. Table may be standalone.	
		Q2B-05	Area Name	Unique Name of Area (e.g., Fraser River 1)	
		Q2B-06	Area Description	Description of the geographic areas (e.g., North of Fraser River between Road X and Road Y)	
		Q2B-07	Number of Features Affected	A number or range of numbers of the estimated number of affected features	
		Q2B-08	Nature of Gap	Describe possible reason for the geospatial mismatch	
		Q2B-09	Magnitude of Gap (m)	Estimate the order of the geospatial mismatch, typically the average in meters	
		Q2B-010	Notes	Additional descriptive notes.	
3	**Data Dependencies (Dataflows, System Integrations, Other Datasets)**				
	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).				
		Q3-01	Data Dependency ID (PK)	Unique identifier, primary key (DEPxx)	DEP02
		Q3-02	Data Issue IDs (FK)	List of relevant primary cadastre issues from Table 2 above (DATAxx), 1 : many	DATA03, DATA06, DATA07
		Q3-03	Workflow Title	Workflow Title (2-3 words)	
		Q3-04	Workflow Description	Workflow description (1-2 sentences)	
		Q3-05	Workflow Type	Create / Maintain / QA / Disseminate / Report	
		Q3 06	Business Areas / Stakeholders	Which business areas / stakeholders affected?	
		Q3 07	Frequency	Daily / Weekly / Monthly / Quarterly / Annually / As required	
		Q3 08	Importance	Criticality of successfully executing the workflow (critical/high/med/low)	
		Q3-09	Task Complexity	Complexity of workflow (high/med/low)	
		Q3-10	Related System(s)	Interfaces / integrations with other systems required to support the workflow (list systems or NA)	Tempest, POSSE, CityWorks, other
		Q3-11	Integration Type	Application / Data	
		Q3-12	Integration Complexity	Complexity of integration(s) with cadastre data (high/med/low)	
4	**Program Dependencies**				
	This worksheet focuses on high-level program dependencies which could impact the adoption of ParcelMap BC within each municipality. Considerations include: a. Other related or dependent IT/GIS initiatives that may impact timing of ParcelMap BC adoption. b. Resource opportunities/constraints associated with adoption. c. Requirements for justification/business case to proceed with adoption. A key result from this table is being able to identify when work can actually start on ParcelMap BC adoption, and are there opportunities for synergies with other initiatives.				
		Q4-01	Program Dependency ID (PK)	Unique identifier, primary key (PROGxx)	PROG01
		Q4-02	Program / Initiative Name	Name of initiative / project	
		Q4-03	Status	Planned / Approved / In Progress	
		Q4-04	Start Date	Planned or actual start date	
		Q4-05	Completion Date	Expected completion date	
		Q4-06	Resource Considerations	Key resources required (roles)	
		Q4-07	Priority Relative to ParcelMapBC Adoption	Higher / Lower / Equal	
		Q4-08	Approval requirements	Business Case, Charter, Other Justification?	

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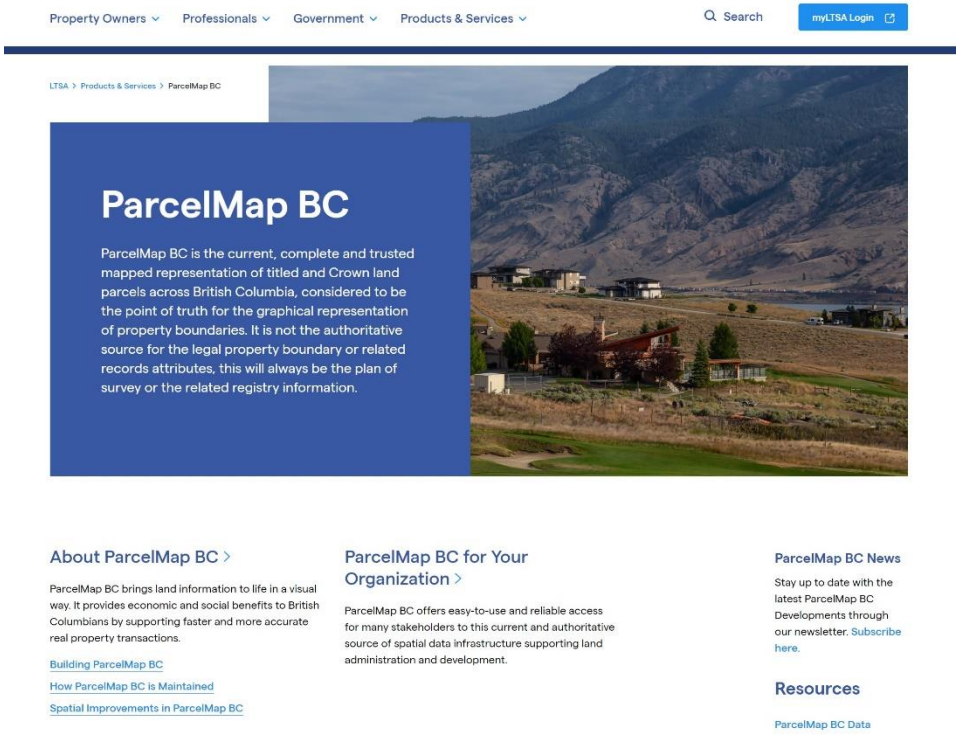
Land Records Adoption Resources (LTSA.CA)



Land Records Adoption Resources Links

Portal to the Adoption Resources

Adoption Resources and Tools

Presentation Wrap-Up & Further Questions

General / Data Inquiries: ParcelMapBC@ltsa.ca

Sign up for the ParcelMap BC Newsletter!
https://ltsa.ca/contact-us/subscribe-to-ltsa-communications/

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Open Café/Cocktail Discussion

Continue the conversation!

Please “raise your hand” or type in the chat if you have any ParcelMap BC questions for the presenters, the LTSA, ICI Society or your peers