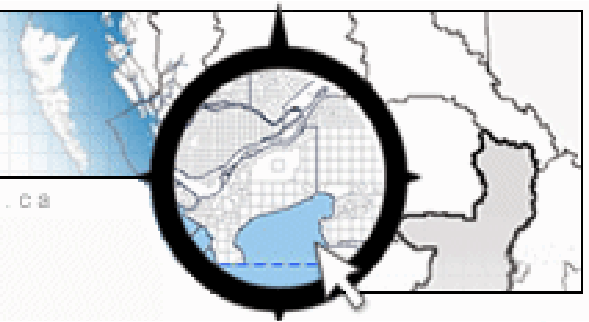




**ICIS**

INTEGRATED CADASTRAL INFORMATION SOCIETY [www.icisociety.ca](http://www.icisociety.ca)



**CAPITAL  
REGIONAL  
DISTRICT**

*SPATIAL DATA*

# Achieving Collaborative Success

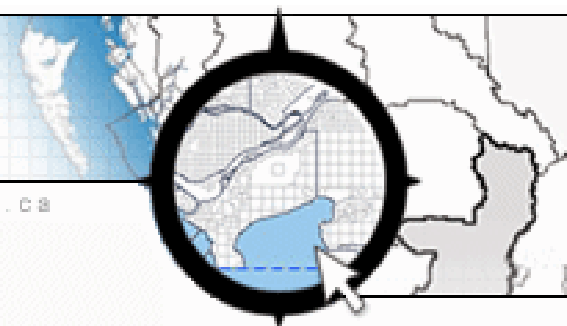
February 12, 2010



# ICIS

# AGENDA

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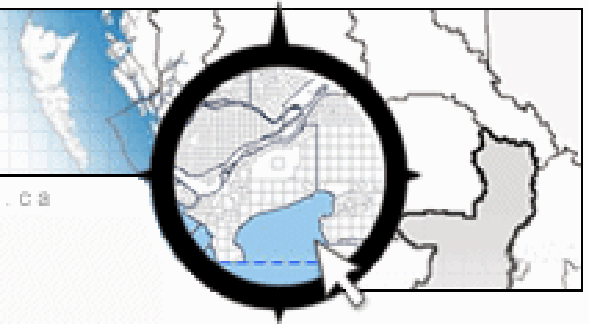
AGENDA		
Trends in Data Sharing	Barry Logan	9:15
The CRD Perspective	Ken Johansson	9:30
The Utilities Perspective	Dan Shannon	9:45
BC Spatial: Embracing the Trend	Paul van Nieuwkuyk	10:30
Beta Roll out in CRD	“	11:00
Parcel Fabric Section Participation	Andrew Calarco	11:45
BC Assessment – The value of your data	Harry Mercer	1:00
AddressBC Background	Ann Archibald	1:15
the Case for AddressBC	“	1:30
Civic Spatial Grant Program	Ann Archibald	2:30
Solutions & Challenges	All	2:45



**ICIS**

**ICIS Today**

INTEGRATED CADASTRAL INFORMATION SOCIETY [www.icisociety.ca](http://www.icisociety.ca)



- **Integrated Cadastral Information Society**

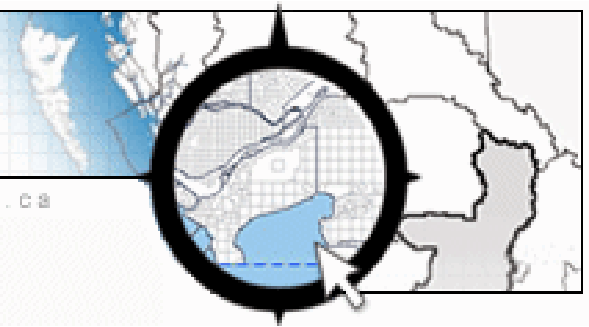




**ICIS**

**ICIS Today**

INTEGRATED CADASTRAL INFORMATION SOCIETY [www.icisociety.ca](http://www.icisociety.ca)



- **Integrated Cadastral Information Society**

- *Collaborating*
- *Sharing*
- *Trusting*

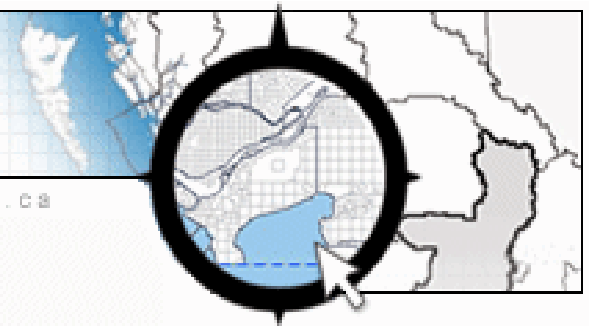




**ICIS**

**VISION**

INTEGRATED CADASTRAL INFORMATION SOCIETY [www.icisociety.ca](http://www.icisociety.ca)



- **Vision:**

Collaborative sharing and integration of spatial data for the economic and social benefit of British Columbia.

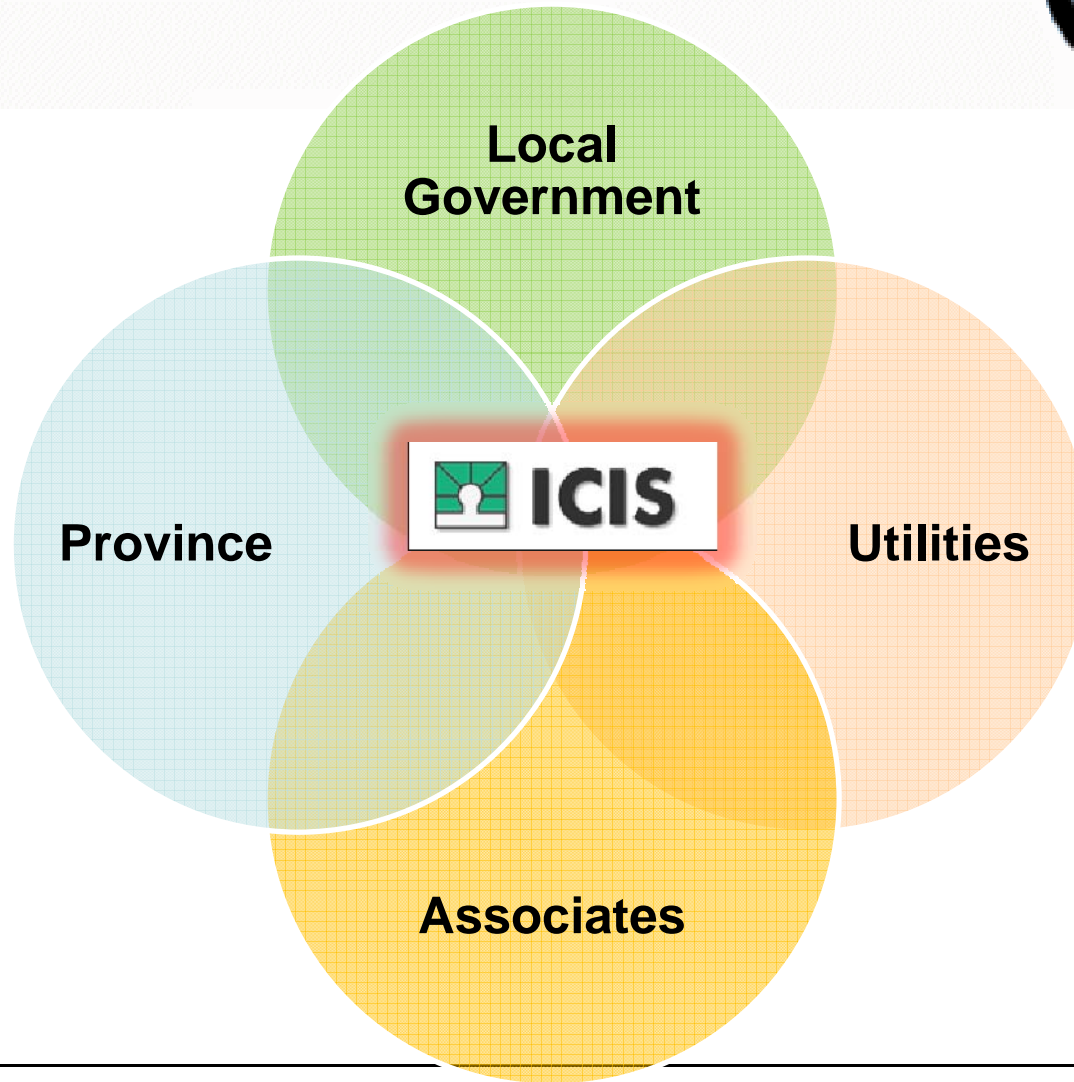
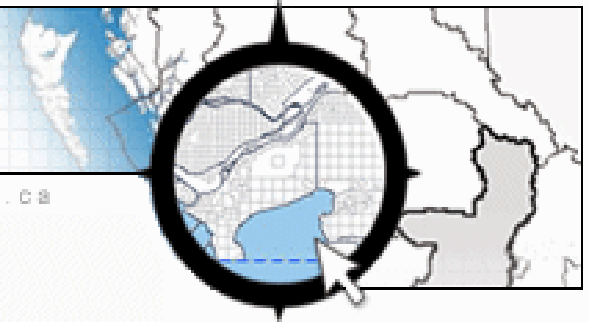




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# Membership

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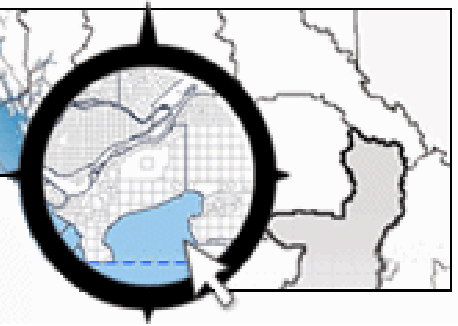




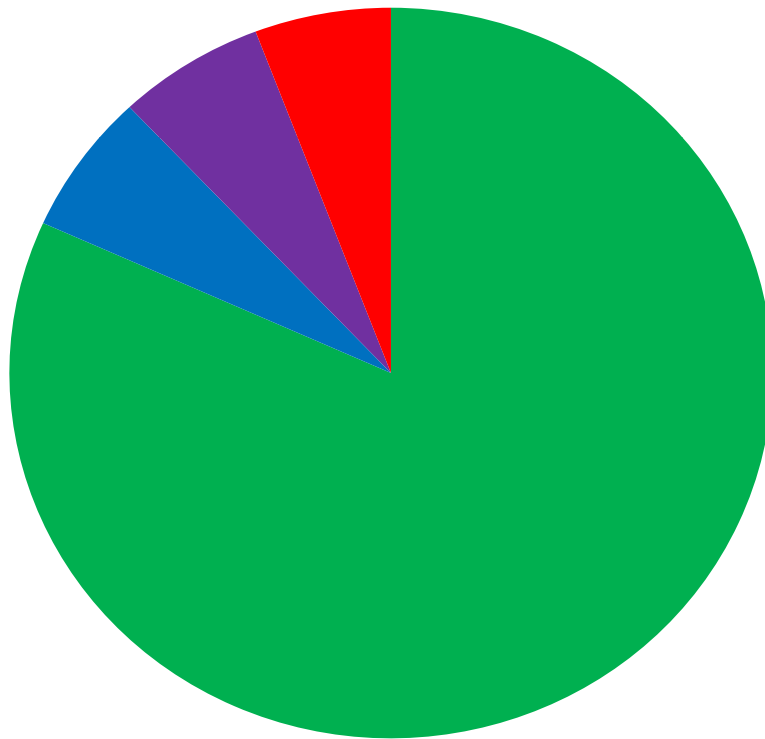
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# KEY INDICATOR

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Membership: 208 DSLAs



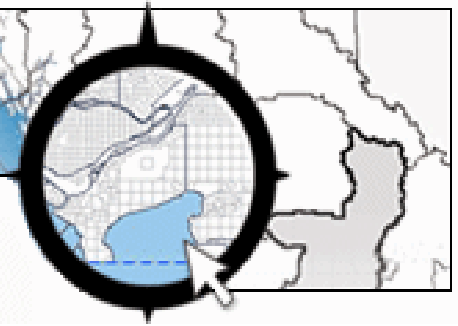
- LG & RD: 170
- Associate: 13
- Prov & Utilities: 13
- 1st Nations: 12



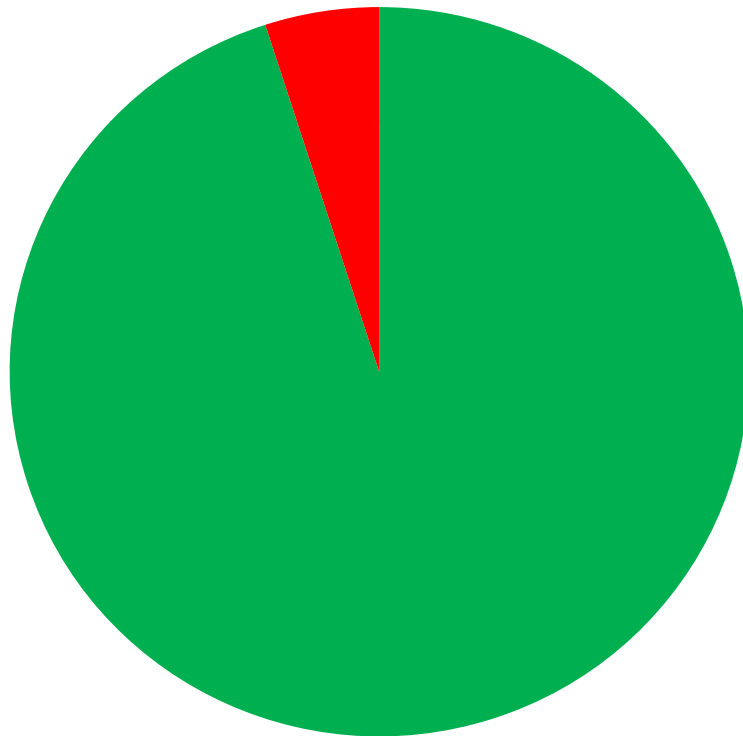
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## KEY INDICATOR

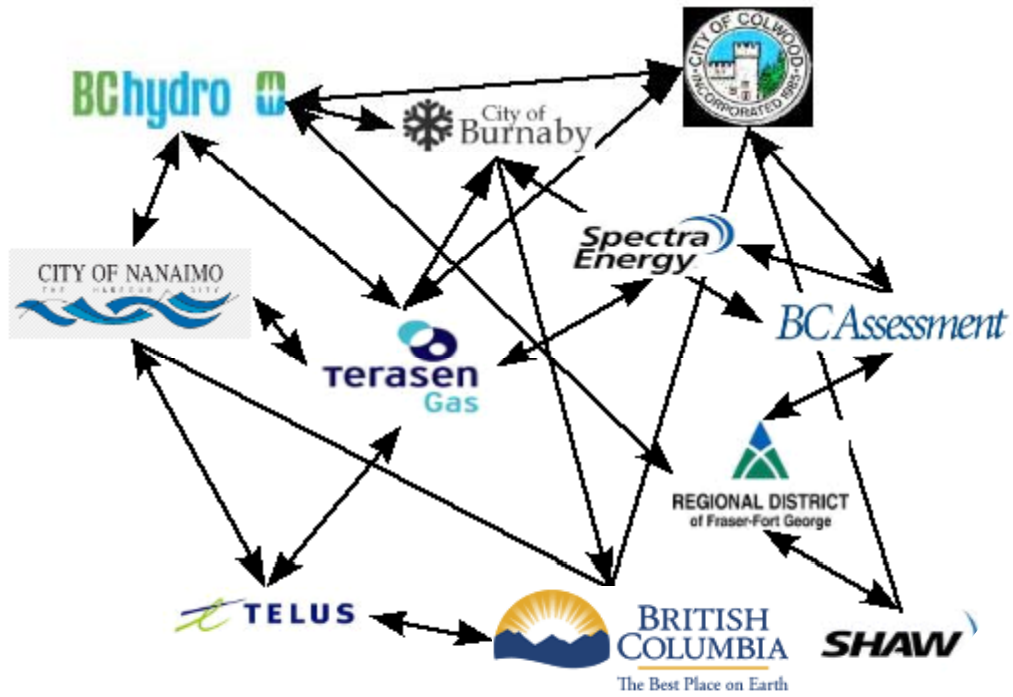
INTEGRATED CADASTRAL INFORMATION SOCIETY [www.icisociety.ca](http://www.icisociety.ca)



Provincial Land Base represented



- Membership base: 95%
- Not represented: 5%



## Without ICIS

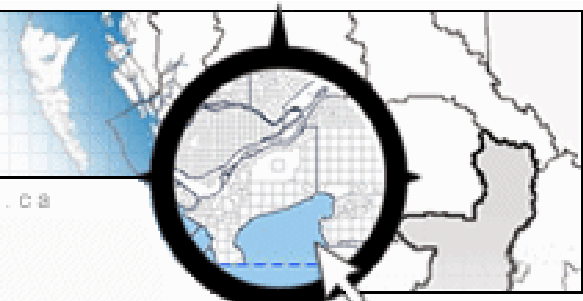
Without ICIS, agreements must be reached with all players



# ICIS

# RECOGNITION

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**FOR IMMEDIATE RELEASE**  
May 20, 2009

### ICIS Wins ESRI Canada's Award of Excellence - Innovative approach to provincial data sharing creates unprecedented economies of scale

**Victoria, BC** - May 20, 2009 - The Integrated Cadastral Information Society (ICIS) received ESRI Canada's Award of Excellence at the Regional User Conference in Victoria, BC earlier today. The award was presented to recognize the Society's ability to develop a workable and successful model for provincial data sharing that is the first of its kind in Canada.

ICIS is a not-for-profit society, incorporated in May of 2001 as a partnership between major utility companies in British Columbia, local governments and the BC Provincial government to collaboratively share and integrate spatial data.

This partnership allows stakeholders to access data from a variety of contributors through a single agreement, removing the previous overhead that required each organization to have a unique agreement in place with data custodians.

"ICIS has demonstrated remarkable leadership by developing an innovative approach to data sharing that is unique in this country," said Myron Doherty, Pacific Regional Manager, ESRI Canada. "Providing a common portal for all members to access spatial data has brought efficiencies and economies of scale to member organizations that are unprecedented even on a global scale."

"By creating a mechanism to integrate spatial data through a single source, we have brought key provincial organizations together to meet around the same table," said Barry Logan, General Manager, ICIS. "Organizations that wouldn't normally interface are now collaborating on province-wide planning initiatives and sharing critical spatial information."

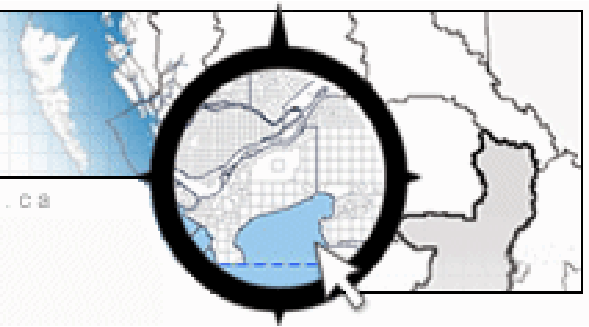
###



**ICIS**

**OPPORTUNITIES**

INTEGRATED CADASTRAL INFORMATION SOCIETY [www.icisociety.ca](http://www.icisociety.ca)



Agree & support the  **ICIS** vision by:

**Working together to**

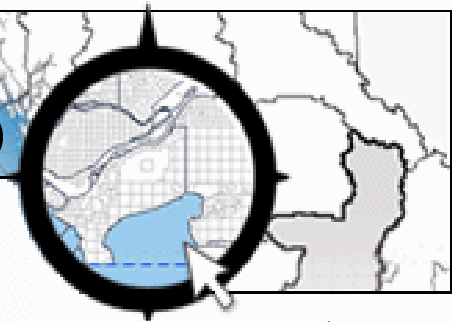
- **Build a Point based Address system**  
*AddressBC*
- **Build the single parcel fabric for the province**  
*BC Spatial*



# ICIS

## SUPPORT: CIVIC SPATIAL GRANT FUND

INTEGRATED CADASTRAL INFORMATION SOCIETY [www.icisociety.ca](http://www.icisociety.ca)



INTEGRATED  
CADASTRAL  
INFORMATION  
SOCIETY

As British Columbia's 2<sup>nd</sup> largest, the Peace River Regional District is about 12 million hectares (46,000 square miles) and the home to almost 50,000 residents. Located in north eastern British Columbia, the regional district is comprised of seven municipalities and four electoral areas. Member municipalities include the cities of Fort St. John and Dawson Creek as well as the municipalities of Tumbler Ridge, Chetwynd, Taylor and Hudson's Hope.

The topography of the area varies from Rocky Mountains in the west to the Interior Plains in the eastern sections. Most of the land is drained by the Peace River or its tributaries. The northern portion of the PRRD is drained by tributaries of the Fort Nelson River.

The economy of the regional district is a combination of agriculture, tourism, manufacturing, petroleum exploration and development, hydro-electric power generation, forestry and mining. Approximately 40% of British Columbia's Agricultural Land Reserve is situated within the regional district.



New economic developments in the Peace River area include an increase in tourism, vast coal resources in the Rocky Mountain foothills, increased utilization of aspen in pulp and wood products, diversification in the agricultural sector and an increase in natural gas and petroleum exploration, development and processing as well as the mining sector.

Don Hemakumara is the GIS Coordinator for the Peace River Regional District and works with a team of two. With such a vast area to deal with, the regional district needed a good quality cadastre. The existing data needed to be streamlined and updated to current standards.

PRRD became a member of ICIS in 2002. The regional district worked with ICIS and the Parcel Fabric Section of the ILMB (Integrated Land Management Bureau) to update the cadastre and more recently on the cadastre re-alignment project.

[www.icisociety.ca](http://www.icisociety.ca)

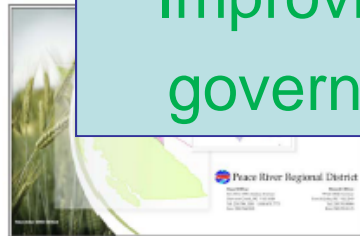
### MEMBER PROFILE



INTEGRATED  
CADASTRAL  
INFORMATION  
SOCIETY

"The updating of the cadastre was done before I joined the regional district," says Don Hemakumara, GIS Coordinator. "There is still a lot of work to be done to ensure that the cadastre is accurate and up-to-date. We are working collaboratively with ICIS to help us achieve our goals."

## Improving local government data



In 2008, PRRD applied for a Civic Spatial grant to enable them to continue to improve their mapping data. The funding was received in early 2009 and allowed the regional district to purchase software and hire a contractor to assist with the process. Don also was able to invest in aerial photography. With control points in place, the resulting photography helped to once again improve the quality of the data.

"In the first phase of this project, we focused on the most populated areas," stated Don Hemakumara. "We will be looking to ICIS again in the near future so that we can continue with the second phase of this project."

The regional district has found many other uses for the cadastre data. The improved cadastre helps support Planning, Finance, Administration & Emergency Services as well as Environmental and Field Services. "We utilize data downloaded through ICIS to calculate how much our residents need to pay for special services/projects. This information is provided to the Province for collection through the Parcel Tax System," says Hemakumara. "GIS also supports the Finance department for service area calculations for proposed as well as existing service areas like water, sewer and recreational."

**"Our collaborative relationship with ICIS has been instrumental in helping us achieve our GIS objectives."**

Don Hemakumara, GIS Coordinator

### MEMBER PROFILE



stakeholders at the District. Chris learned that the District could potentially be funded by the ICIS Civic Spatial grant program to purchase and implement a new system that would improve the level of accuracy of Mission's cadastral data. Armed with a report that included recommendations from Stephen Garner of ICIS, Chris proposed an ICIS membership and an application for Civic Spatial funding. This would allow the District to purchase and implement the new system. In turn, the improved level of accuracy to all property pins and other data would be provided to ICIS and would become part of the provincial cadastral fabric.

The District of Mission has used the Civic Spatial funding to purchase their new system. Their survey team is now in the process of shooting property pins which will in turn increase the level of accuracy in their cadastral data.

**"The vision of ICIS and its support of the District of Mission's data improvement program will have long-lasting benefits for both the ICIS membership and the public at large." says Chris Knowles, Manager, Information Technology.**

While the District of Mission has just started working with their new system and with ICIS, other opportunities for improving their dataset are planned for the future and may be eligible for additional Civic Spatial grant funding from ICIS. These include: migrating legacy data that isn't in the correct format to the new spatial geo-database and the re-modeling work that may be required to ensure that this data works optimally with the new system.

In the future, Chris believes that a cohesive cadastral system for the province will provide the central location from which all municipalities can work together and will improve emergency response and deployment. "I see many possibilities for future use of the ICIS data," states Chris Knowles. "The Civic Spatial grant funding that the District of Mission received from ICIS was essential to replacing our old, unsupported system and to getting these initiatives off the ground."

[www.mission.ca](http://www.mission.ca)



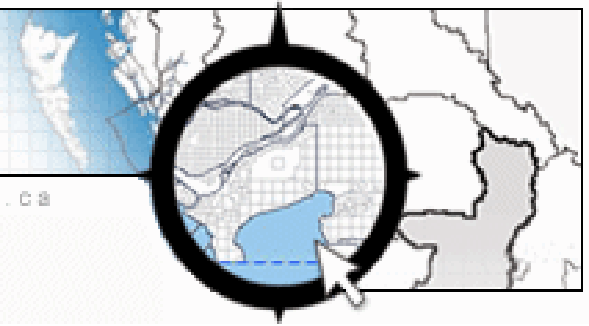
[www.icisociety.ca](http://www.icisociety.ca)



# ICIS

## SUPPORT: EDUCATION

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- ICIS workshops

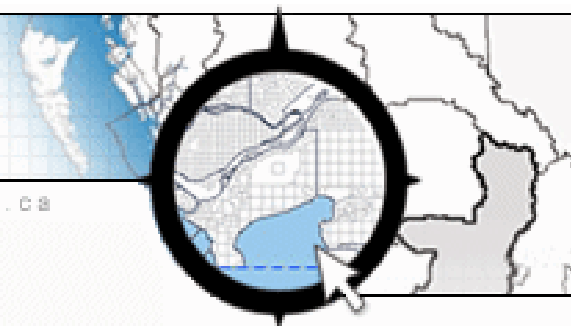




**ICIS**

**SUPPORT:  
FACILITATION**

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- 2010 Olympics  
Tiger Team

- Air Photo  
Consortium

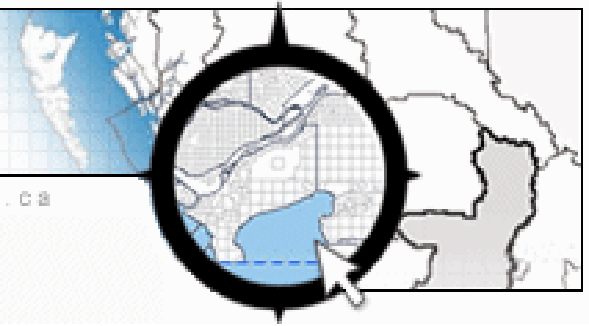




# ICIS

## GROWING TREND

INTEGRATED CADASTRAL INFORMATION SOCIETY [www.icisociety.ca](http://www.icisociety.ca)



- Open data
- Data Sharing

The screenshot shows a Google search interface. The search bar contains the text "open data". A dropdown menu is open, displaying suggestions: "open data toronto", "open data vancouver", "open data edmonton", "open data kit", "open data canada", "open database connectivity odbc", "open data government", "open data foundation", "open data calgary", and "open database". A red arrow points from the "Data Sharing" bullet point in the slide to the "open data" search bar. Below the search bar, the search results are displayed, showing the top three results: "Open Data - Wikipedia, the free encyclopedia", "The Open Data Foundation", and "Open Data Commons".

File Edit View Favorites Tools Help

Google open data

Search

Share Sidewiki Check Translate AutoFill open data

open data toronto

open data vancouver

open data edmonton

open data kit

open data canada

open database connectivity odbc

open data government

open data foundation

open data calgary

open database

Search:  the web  pages from Canada

Web [Show options...](#) Results 1 - 10 of about 282,000,000 for open data. (0.12 seconds)

[Open Data - Wikipedia, the free encyclopedia](#)  
In some cases **Open Data** may be considered as more properly Open Metadata .... Open Notebook Science refers to the application of the **Open Data** concept to as ...  
[Overview - History - Fundamental Open Rights](#)  
[en.wikipedia.org/wiki/Open\\_Data](http://en.wikipedia.org/wiki/Open_Data) - [Cached](#) - [Similar](#)

[The Open Data Foundation](#)  
The **Open Data** Foundation provides a place where the members of different communities can come together and work on the alignment of technology standards and ...  
[www.opendatafoundation.org/](http://www.opendatafoundation.org/) - [Cached](#) - [Similar](#)

[Open Data Commons](#)  
Open Knowledge Foundation project to provides a set of legal tools to help people provide and use **open data**. Site includes, project information, licences, ...  
[www.opendatacommons.org/](http://www.opendatacommons.org/) - [Cached](#) - [Similar](#)

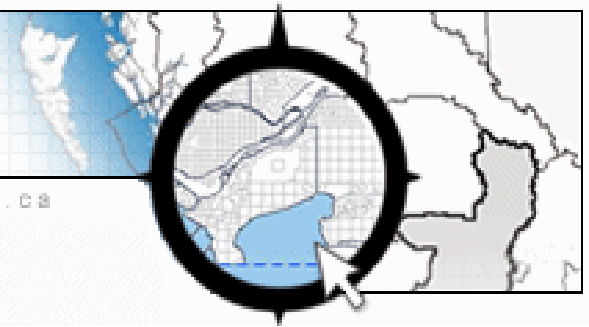
[Vancouver's Open Data Catalogue -](#)  
15 Sep 2009 ... Welcome to the second version of the beta **Open Data** website. This new version includes many more datasets, more data formats, ...



**ICIS**

# FACTORS

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- **Economic**

- Cost reduction vs. increased service
- Shared infrastructure
- Lost revenue
- New revenue & growth

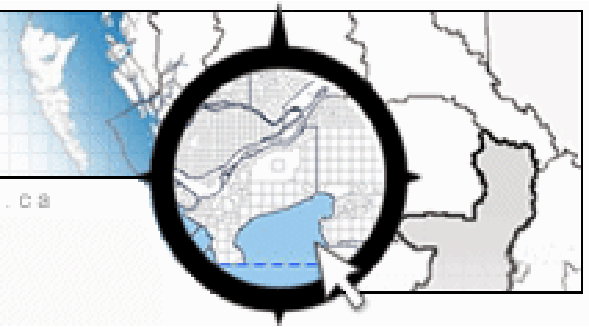




**ICIS**

# FACTORS

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- **Philosophical & Cultural**

- Transparent Government declaration
  - Gov 2.0
  - Information sites
- Citizen engagement
- Share & seek

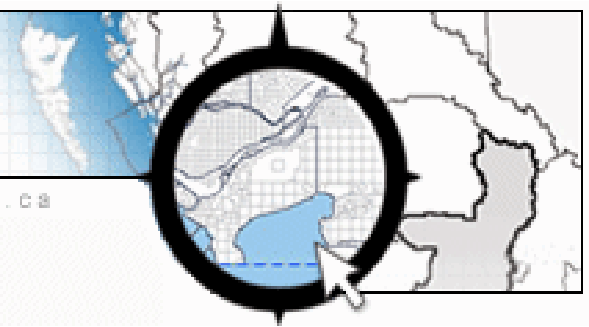




**ICIS**

# FACTORS

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- **Business**
  - Emerging need
  - New revenue
  - Information sites
  - Leverage data
  - New data
  - Add value

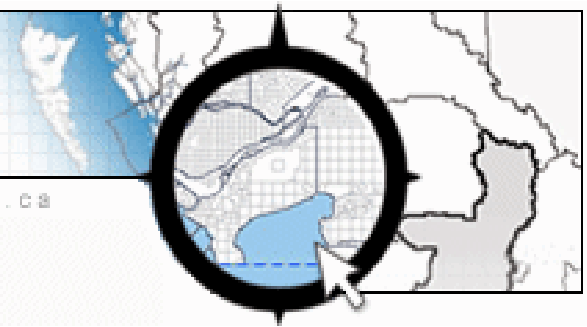




# ICIS

# FACTORS

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- **Technical**

- Web 2.0
- Social media tools
- Open source

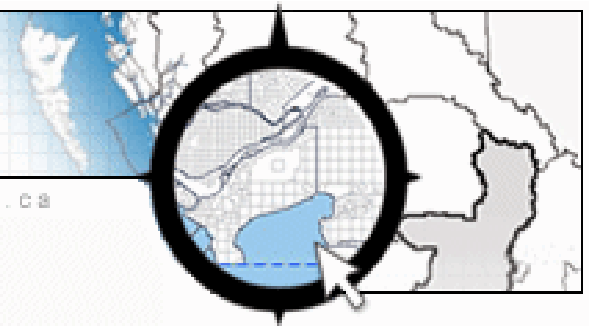




**ICIS**

# FACTORS

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- **Challenges**

- Protectionism
- Ownership
- Policy
- Legality
- Security

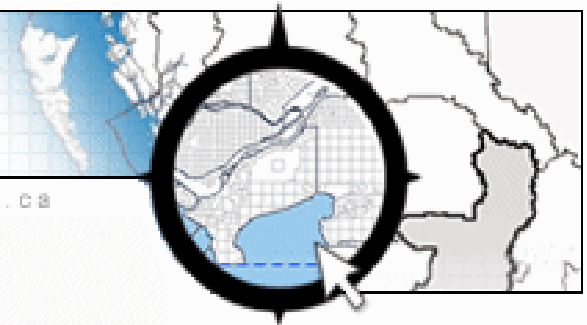




# ICIS

# Adopter

INTEGRATED CADASTRAL INFORMATION SOCIETY [www.icisociety.ca](http://www.icisociety.ca)



## View Royal - Another First for AddressBC

Victoria, BC, February 8, 2010

The [Town of View Royal](#), on Vancouver Island, is the first municipality in BC to adopt the [AddressBC data model](#) as a core piece of their new GIS implementation. This shows tremendous support for AddressBC, ICIS's geospatial point-based address system currently in the final development phase.

Emmet McCusker, Director of Engineering Services for View Royal, explains their leading edge in adopting AddressBC: "We didn't want to reinvent the wheel and the timing was right for us to adopt a best practices approach to maintaining our address information."

Address data for View Royal was initially built by converting CAD drawing address annotation to create address points. These address points were used to [seed the AddressBC system](#) as part of the initial development. Checking the address data was completed by the Engineering and Planning Departments with a final field verification to be undertaken by the View Royal Fire Department.

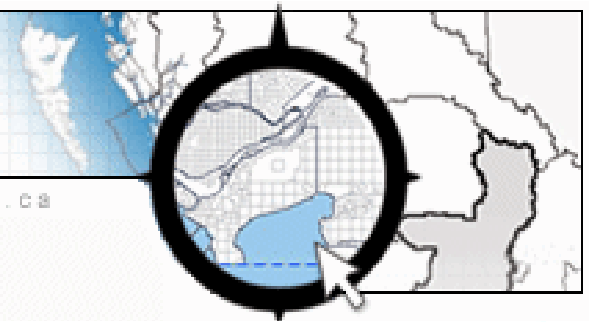
Steven Garner, lead consultant for the GIS project, notes that, "We have learned a lot and continue to learn the nuances that go along with using the AddressBC model." View Royal's early experience implementing AddressBC will serve as a valuable guide for other Local Governments.

In addition, View Royal has also adopted the ICF standard from ICIS for their base cadastral data. This will ensure that both addressing and cadastral data will be in the best format for sharing with their fellow [ICIS members](#).



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**CAPITAL  
REGIONAL  
DISTRICT**

*SPATIAL DATA*

# Achieving Collaborative Success

February 12, 2010