The Community Mapping
Network

Helping to plan sustainable communities

Welcome everyone to a short presentation about the Community Mapping Network.

My Name is Rob Knight, one of 2 Directors for CMN - currently on Bowen Island in the mouth of Howe Sound

Brad Mason co-founder and the other Director for CMN will be joining us after this presentation from Langley for the question and answers.

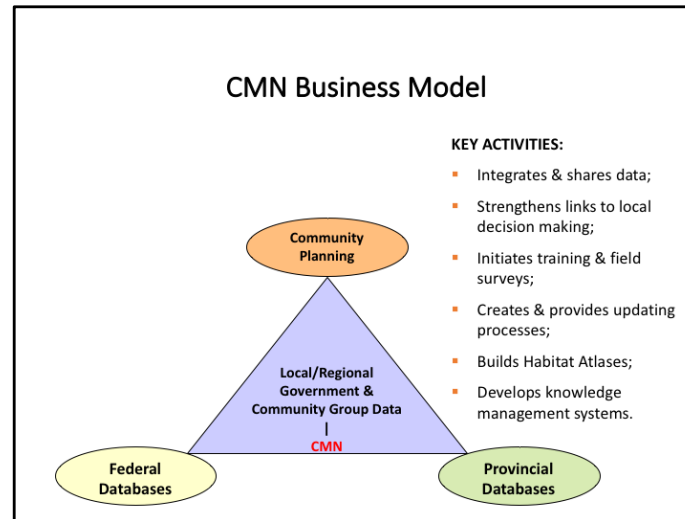These are the topics I plan to cover today in the next 10 minutes or so…….
- The origin of CMN
- The CMN Business Model, Structure and Services
- Introduce you to the CMN home page and Atlas Gallery
- By way of some examples, show you some of the web map (Atlas) functions such as map tools, map feature links to photos, shoreline videos, attributes, metadata
- An example of our earlier projects where Map Books complimented the web mapping (2000 to 2004)
- Finally some basic CMN Statistics for 2017
- Time for questions and answers
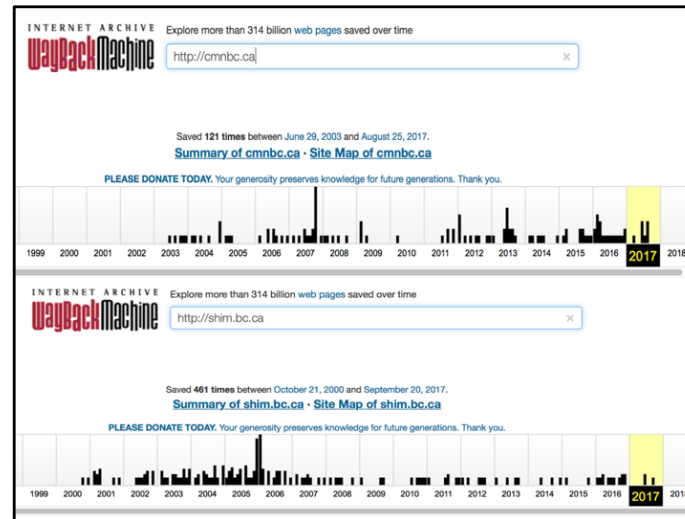
- These are views from the Internet Archive and the black bars indicate how frequently that organization visited or web site and captured a view of some of the pages
- You can see in the lower panel (shim.bc.ca) that the fall of 2000 was our first web mapping application showing primarily 1:5000 scale mapping of small streams and fish habitat, critical information for local government planning and activities near streams.
- Brad Mason was serving web mapping of small streams prior to 2000 (way before Google web mapping) but the fall of 2000 was our official launch.
- The upper panel shows when we adopted our current domain name cmnbc.ca

CMN Business Model

KEY ACTIVITIES:
- Integrates & shares data;
- Strengthens links to local decision making;
- Initiates training & field surveys;
- Creates & provides updating processes;
- Builds Habitat Atlases;
- Develops knowledge management systems.

Community Planning

Local/Regional Government & Community Group Data
|
CMN

Federal Databases

Provincial Databases

- The idea at the core of CMN is that Federal and Provincial data is a good back drop for more detailed local information that everyone needs to have a sustainable community.
- CMN partners with local governments and community groups to bring those detailed data together in locations where it is need for local community based decisions, actions and advocacy.

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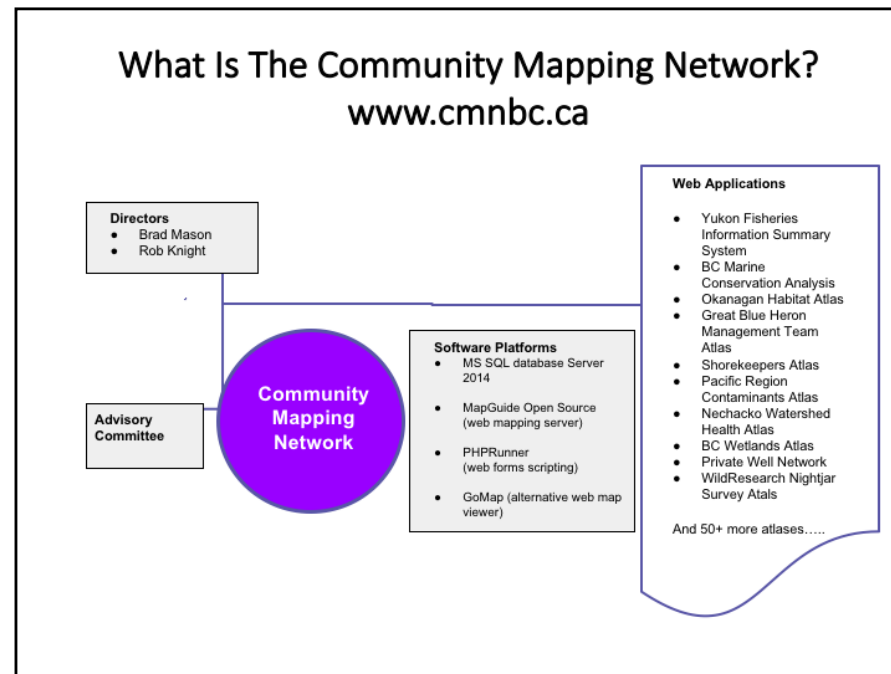
- Brad Mason and I are both recent retirees of the federal and provincial governments. I was with the BC Ministry of Environment and Brad with Fisheries and Oceans Canada. We have managed the Community Mapping Network since its beginning in 2000.
- CMN is a not-for–profit organization that hosts web mapping applications that show environmental and habitat data. These applications provide a place for the public to view and interact with the data and in some cases the applications have online data entry forms which are connected directly to a database server. This allows a user to not only view and interact with the data but also add and update it.
- There are currently, approximately 60 applications hosted for various government and not-for-profit organizations, a few of the more popular atalses are listed here. The applications are built by contractors connecting to the servers remotely. There is no office, we are a virtual network of people who live and work across the country. Two of the primary contractors live permanently in eastern Canada.

Building the Community Mapping Network

- Share information and resources for information/knowledge management
- Integrate Habitat Information
- Provide quality assurance and quality control
- Develop methods/standards
- Promote inventory and mapping
- **Leverage CMN resources to help new partners**
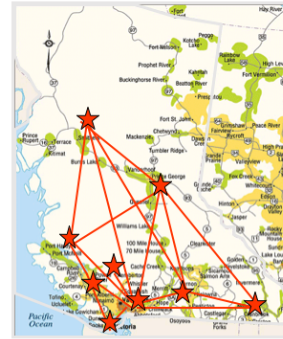
This is how we built a network of communities across BC and to other parts of Canada.

CMN services to its partners

- Helps evaluate the need for new inventory;
- Helps find funding sources;
- Provides training opportunities;
- Communicates success stories from community to community ;
- Provides processes for updating information;
- Provides GIS support;
- Creates and promotes use of standard methods;
- Recently, undertakes detailed habitat studies.

- Some of the services CMN provides…………
- Regarding the last bullet: CMN recently completed a detailed study of DFO approved habitat compensation sites in the Lower Fraser River. The sites were constructed since 1986 based on the DFO's No Net Loss Policy.

- The CMN home page high lights a few key atlases in the rotating banner at the top and the red arrow shows the tab for the Atlas Gallery.
- The box on the lower right is a scrolling list of atlases in the Atlas Gallery - a quick way to get to an atlas you visit frequently.
- The videos in the lower left are an easy way to learn more about how the web mapping applications work.

- The Atlas Gallery is a long page of more about 60 links, one for each atlas.
- The top of the page has some drop down search terms used to classify atlases by region and keywords.
- We have found communities really want to see specific areas and information layers just for there topics of interest. That is why there are about 60 atlases not just one atlas with every ones data for everywhere!
- The red arrow top left is for the next slide for the Aquatic Information Partnership Atlas. You would click on this image to explore the AIP Atlas.
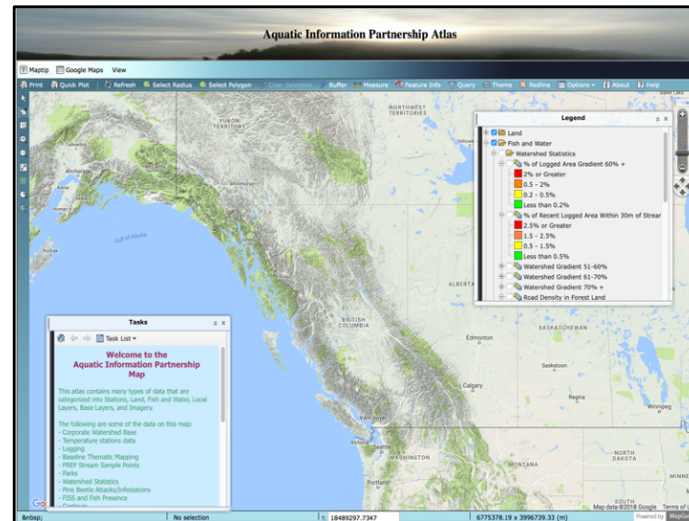
- This a typical opening view of an atlas.
- In this case the map extent is the whole province.
- Other atlases may open to much more local areas of interest, depending how the atlas is designed.
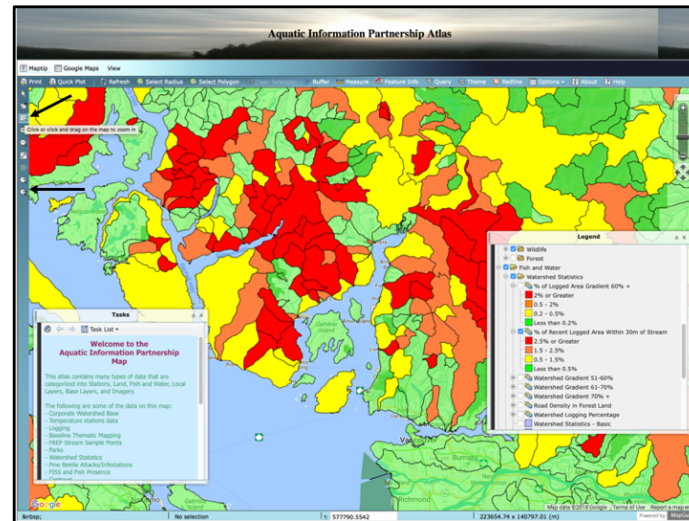
- Here is Howe Sound in the AIP Atlas with one of the BC Watershed Statistics layers turned on.
- These color themed watershed polygons show the % area of a watershed that has logging with in 30 meters of a stream
- The layer in the legend up one level and not turned on for this view would show % area with logging on slopes greater that 60 % or 27 degrees.
- These watersheds are taken from 1:20,000 provincial mapping (TRIM) and are not detailed enough for local planning but they are a good starting point.
- The web map manipulation tools are on the left vertical tool bar. My two favorite tools to zoom in and out are the "click/draw rectangle to zoom in" and the "Go to previous/next" buttons. (the black arrows upper left)
- You just need to get in a play with the tools to appreciate how easy it is to move around and we can always help folks get used to using the atlas tools and explain the other functions.
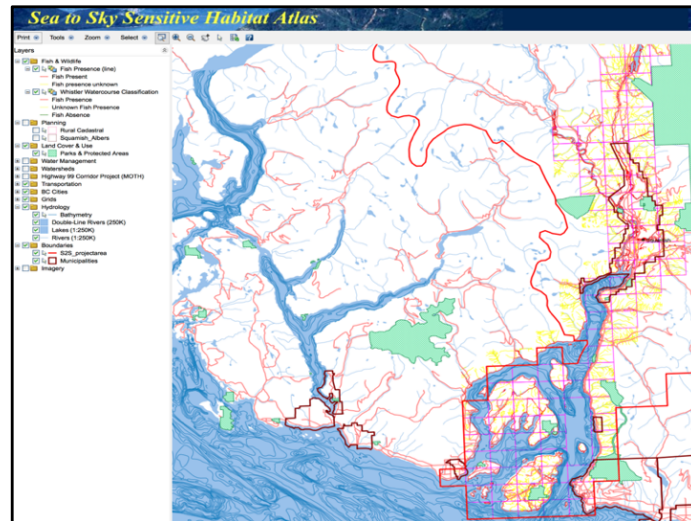
- In 2004 CMN completed an atlas for all of the SLRD titled the Sea to Sky Habitat Atlas.
- This view of Howe Sound shows some of the base mapping layers turned on. These layers (and more) are available for a "Howe Sound Bioregional Initiative Atlas"
- The tools and frame look different in this atlas because it uses an early version of the MapGuide Open Source web mapping software that we currently use.
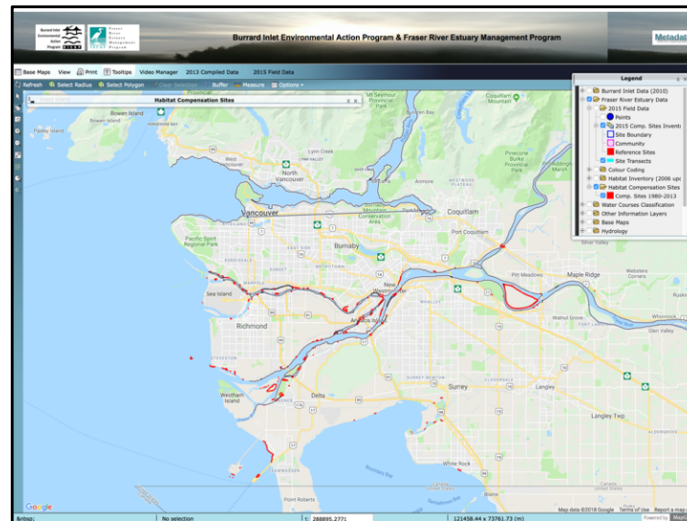
- Another Atlas on CMN is the FREMP-BIEAP Habitat Atlas.
- There are many different data types and functions available via CMN and at the risk of a technical disaster I am going to show you a live view of this atlas and the streaming of Shoreline Videos.
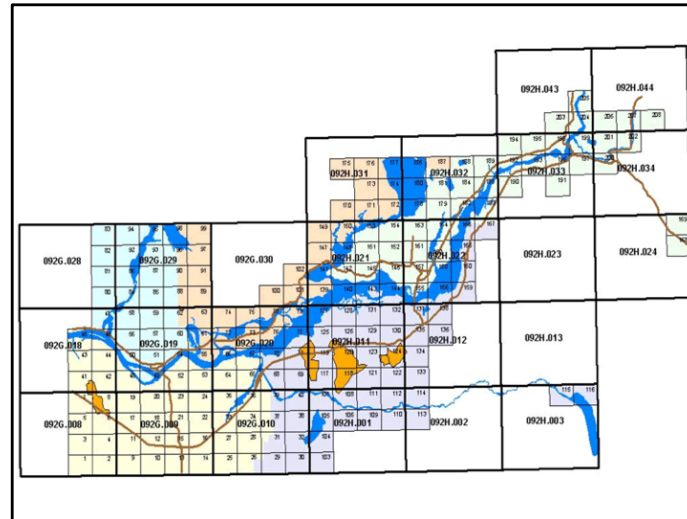
- In the early years of CMN when web mapping was a new thing for many folks we also produced bound booklets (11"x17") suitable for use on the front counter of a local governments planning department, showing a subset of the layers in the web versions.
- I was not able to find examples for the Sea to Sky Habitat Atlas (2004) but this example we did for the FVRD (Fraser Valley Regional District) in 2002 will give you an idea of what should be in every local government office of the SLRD.
- Each square in this index map would link you to a static image on the web server or a page number in the bound paper atlas
- Here is one square from the the FVRD Habitat Atlas
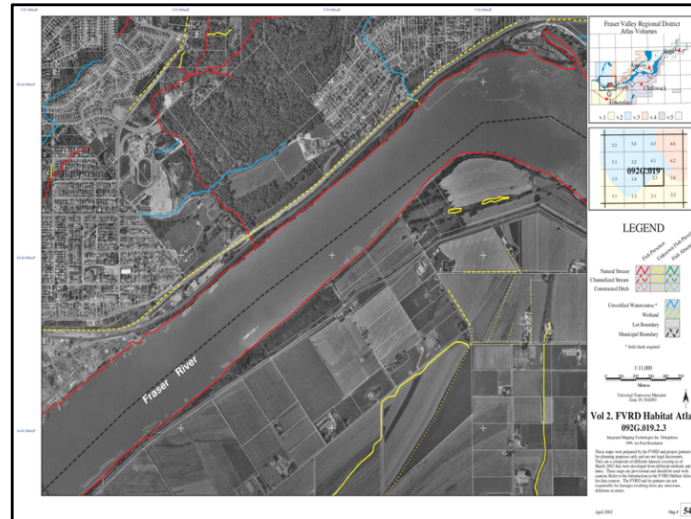
- The map scale is 1:11,000 and this view shows the east portion of Mission and various stream classifications.
- For this project there were 5 volumes (illustrated by color areas in the upper right) which focused on the local governments that make up the FVRD.
- I believe there were also 5 volumes for the Sea to Sky Habitat Atlas booklets.

CMN 2017 Monthly History
Site Visits to cmnbc.ca home page

Monthly history

Jan 2017 Feb 2017 Mar 2017 Apr 2017 May 2017 Jun 2017 Jul 2017 Aug 2017 Sep 2017 Oct 2017 Nov 2017 Dec 2017

Month	Unique visitors	Number of visits	Pages	Hits	Bandwidth
Jan 2017	3,693	7,646	19,176	198,427	6.51 GB
Feb 2017	3,367	6,513	16,025	198,514	4.96 GB
Mar 2017	3,418	6,662	36,562	208,265	4.73 GB
Apr 2017	3,120	7,071	26,758	148,157	3.93 GB
May 2017	3,291	7,859	25,682	163,278	3.90 GB
Jun 2017	3,351	7,492	22,836	146,473	4.15 GB
Jul 2017	3,459	6,666	23,455	143,516	4.79 GB
Aug 2017	4,288	8,705	25,599	152,327	4.71 GB
Sep 2017	5,762	11,694	34,152	155,401	6.37 GB
Oct 2017	5,777	11,548	49,167	193,001	5.53 GB
Nov 2017	5,844	9,762	26,495	177,799	5.60 GB
Dec 2017	5,400	8,954	37,404	139,047	4.54 GB
Total	50,770	100,572	343,311	2,024,205	59.71 GB

- Lastly: here is a summary of web visits to the the CMN home page for 2017.
- The user levels are fairly constant throughout the year adding up to about 100,000 visits and 300,000 page views.
- Thanks for listening.
- Drew Copeland has been tracking your questions in the chat window and please continue to add more.
- Brad & I are here to answer your questions that Drew will moderate.