



# Leveraging Web 2.0 in the Government of Canada

## Government of Canada IM Conference 2006

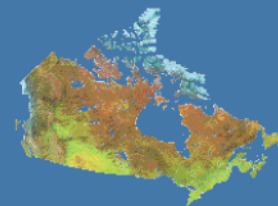
Phil Moir, Earth Sciences Sector, NRCan



Natural Resources  
Canada

Ressources naturelles  
Canada

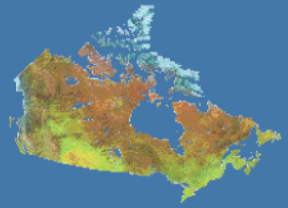
Canada



## GOC IM Session Description

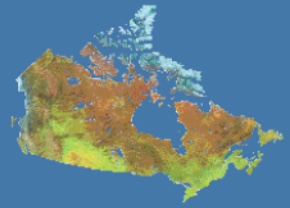
Web 2.0 is an umbrella term encompassing fundamental changes related to how the Internet is used and new technologies powering these changes, such as RSS, Ajax, wikis, and blogs.

This talk provides examples of how these new trends and technologies are being exploited in the federal government. wikis, web services, Ajax



## Outline

- Web 2.0 - Definition
- Examples – Earth Sciences Sector, NRCan
  - Wiki (3 examples)
    - Successes and Challenges
  - Web Services – enabling user applications
- Google Earth (based on Ajax)



## Web 2.0 - Definition

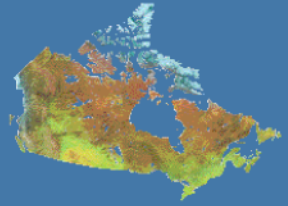
- *Web 1.0 was from the head;  
Web 2.0 is from the heart.*
- *Web 1.0 was created by Scientists;  
Web 2.0 was created by Society.*



*Dan Zambonini, Aug 25, 2006. oreillynet.com*

[http://www.oreillynet.com/xml/blog/2006/08/why\\_you\\_should\\_let\\_web\\_20\\_into.html](http://www.oreillynet.com/xml/blog/2006/08/why_you_should_let_web_20_into.html)



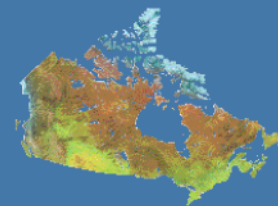


## Web 2.0 in the news

“It is characterized by increasingly interactive nature of the web - rather than a collection of static pages viewed passively today’s internet makes the user an active participant”



Roberto Rocha, CanWest News Service  
– The Daily News, Sept. 20, 2006



## Sense of Web 2.0 by Example

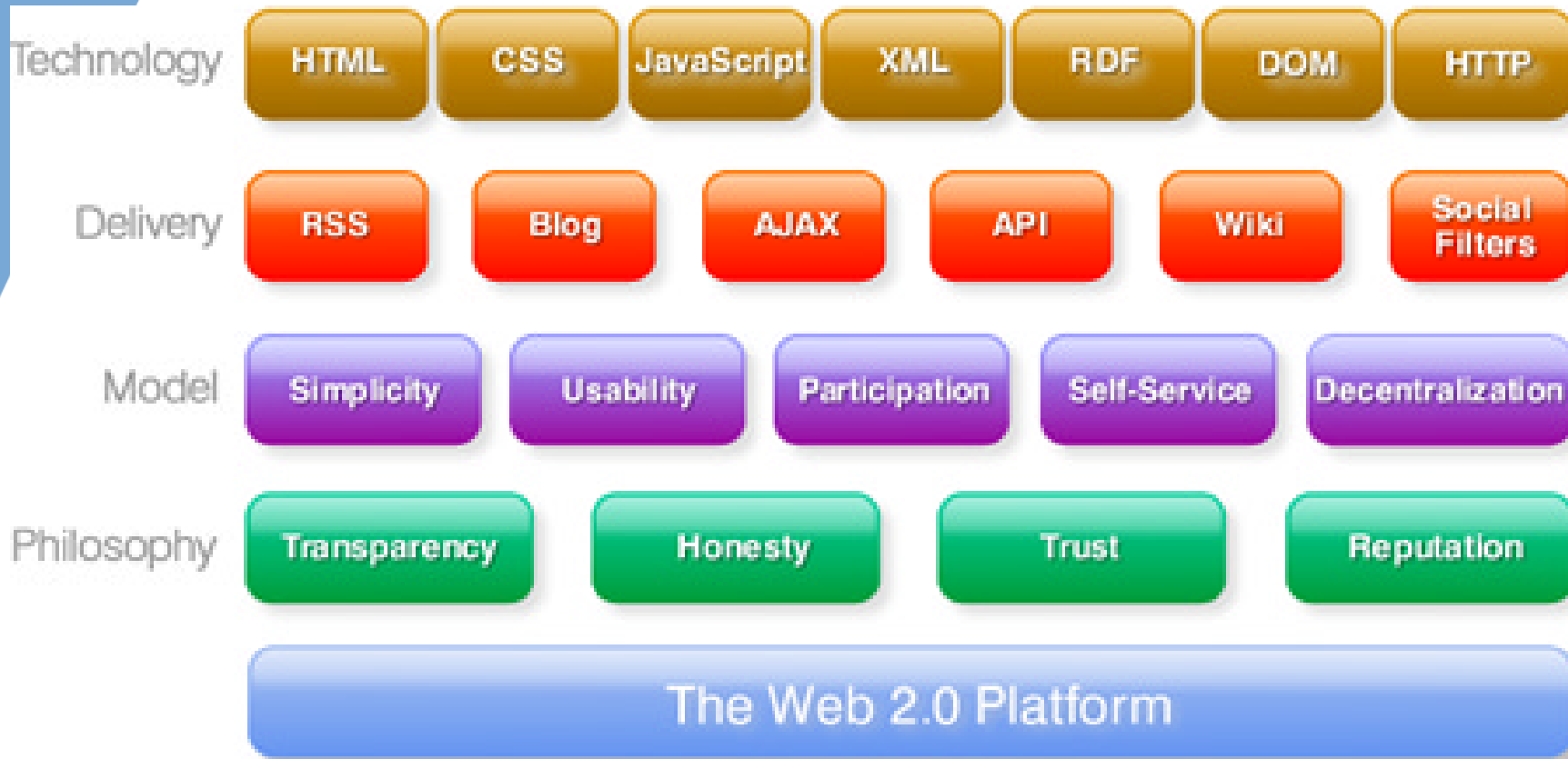
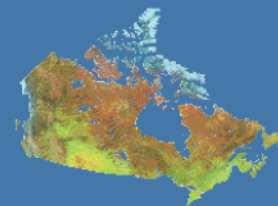
Web 1.0		Web 2.0
DoubleClick	-->	Google AdSense
Ofoto	-->	Flickr
Akamai	-->	BitTorrent
mp3.com	-->	Napster
Britannica Online	-->	Wikipedia
personal websites	-->	blogging
evite	-->	upcoming.org and EVDB
domain name speculation	-->	search engine optimization
page views	-->	cost per click
screen scraping	-->	web services
publishing	-->	participation
content management systems	-->	wikis
directories (taxonomy)	-->	tagging ("folksonomy")
stickiness	-->	syndication

Tim O'Reilly , 2005, O'Reilly.net

<http://www.oreillynet.com/pub/a/oreilly/tim/news/2005/09/30/what-is-web-20.html>



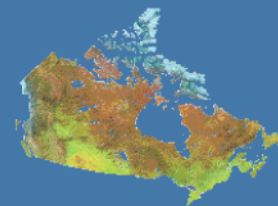
# Common Components of the Web 2.0 Platform



*Dan Zambonini*, posted on oreilly.com, Aug 25, 2006.

[http://www.oreillynet.com/xml/blog/2006/08/why\\_you\\_should\\_let\\_web\\_20\\_into.html](http://www.oreillynet.com/xml/blog/2006/08/why_you_should_let_web_20_into.html)





## Web 2.0 - Wiki

Ward Cunningham started developing WikiWikiWeb in 1994. Wiki means "fast" in Hawaiian

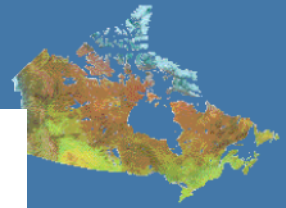
Wiki technology allows online collaboration and posting/editing of information

- effective tool for collaborative authoring
- users can easily add, edit and change content
- post documents, meeting minutes, pictures, etc.
- can set passwords, force registration

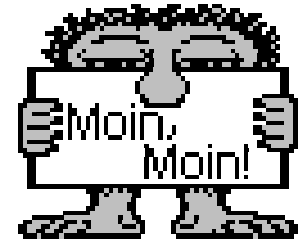




# Web 2.0 - WiKi examples - #1



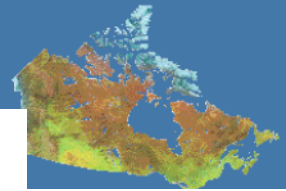
## Geoscience Data Repository (GDR) Wiki



- Who: ESS GDR project team ( 20-40 staff)
- Access: ESS Intranet only & password protected
- When: 2004 to present (2 + years)
- How: Moin Moin (free python wiki application)
- Why: central posting area for ideas, discussion, meeting minutes, presentations.
- Benefit: reduced email, better coordination of project components, create sense of community



# Web 2.0 - WiKi examples - #1



## GDR Wiki Features

Password protected –users

Recent changes

Change notification -email

Central posting of project minutes, notes, discussion of ideas,

⚠ EditRestriction : Editing of this page restricted to: PaulHuppé & PhilMoir

## Welcome to the ESS GDR (Geoscience Data Respository) Wiki!

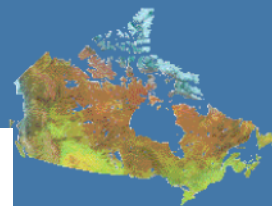
- [Welcome to the ESS GDR \(Geoscience Data Respository\) Wiki!](#)
  - [Wiki Introduction](#)
- [ESS GDR/GDRIS - Geoscience Data Repository and Information Services Discussion Area](#)
- [ESS ISS \(Information Set Stewards\) Discussion Area](#)
- [ESS Metadata Framework Initiative Discussion Area](#)
- [Search and Help about the Wiki](#)

### Wiki Introduction

- **Why this Wiki?** For the benefit of this activity, we have posted a "Wiki" board for participants to view/post/edit information related to the GDR project. For those not familiar with wiki technology (wiki means "fast" in Hawaiian 😊), this allows online collaboration and posting/editing of information via quick HTML page creation. This approach has been used in numerous projects/activities, and serves as a useful "sandbox" area for posting information.



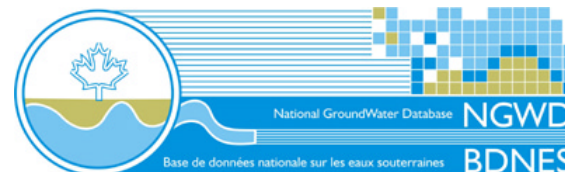
# Web 2.0 - WiKi examples #2



Natural Resources Canada

Earth Sciences Sector

Groundwater Mapping

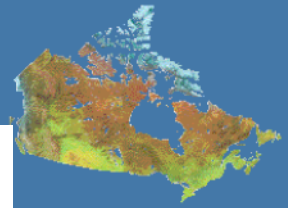


## National Ground Water database NGWD

- Who: ESS NGWD project team
- Access: ESS Intranet only, inside NRCan firewall
- When: 2003 to 2005 (2 years)...now dormant
- How: Very Quick Wiki - VQWiki (tomcat servlet)
- Why: central posting area for ideas, discussion, meeting minutes
- Benefit: documentation and day to day project management at one location



# Web 2.0 - WiKi examples #2



http://s5-stf-ngwd.nrn.nrcan.gc.ca:8080 - StartingPoints - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print

## The Very Quick Wiki

VQwiki

To modify this, click: [LeftMenu](#)

| [EditPage](#) | [Attach](#) | [StartingPoints](#) | [RecentChanges](#) | [Search](#) | [Printable Page](#)

[RecentChanges](#)

[TextFormattingRules](#)  
[AllWikiTopics](#)  
[OrphaneWikiTopics](#)  
[ToDoWikiTopics](#)  
[WikiLockList](#)  
[RSS](#)  
[Export2HTML](#)

[WikiSearch](#)

[SetUsername](#)

[VeryQuickWiki](#)

### StartingPoints

**Secteur des sciences de la Terre**

**Les eaux souterraines**

## NGWD Wiki

### National Groundwater Database Wiki

Due to a hard disk failure on the main server, we lost the content of the Wiki. During the backup, we missed the directory where the content of the wiki was located and the original disk is broken beyond recovery. All the remaining content of the server was backed up correctly and has been recovered.

Done Local intranet

http://s5-stf-ngwd.nrn.nrcan.gc.ca:8080 - MeetingNotes25Dec2004 - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print

## The Very Quick Wiki

[FormattingRules](#) >> [DocsResources](#) >>

| [EditPage](#) | [Attach](#) | [StartingPoints](#) | [RecentChanges](#) | [Search](#) | [Printable Page](#)

### MeetingNotes25Dec2004

-Eric

Finir l'API pour Meta Données (en cours).  
 Vérifier avec James Rupert et Paul Huppé l'accessibilité à Cocoon (Tomcat) et Chameleon sur GDR (ou autre serveur publique) (Problématique!!!).

-Harold

Construire une page avec horloge.  
 Faire fonctionner le client z39.50.  
 Créer dans la bd un Clob d'utilisateur pour stocker l'info demandé.

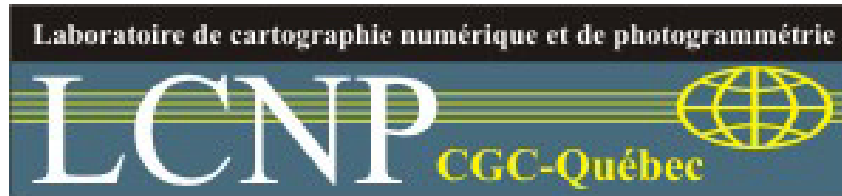
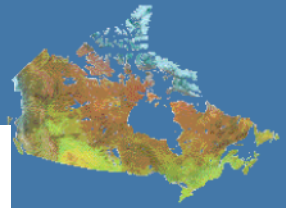
-Heryk

Mettre les services web de cocoon pour le site web PES en format html pour John Grant. (fini)  
 Ajouter un name space au xdocs et modifier le xslt pour montrer une table des matières (fini)  
 Faire fonctionner Cameleon avec Cocoon pour faire des getfeatureinfo.  
 Commencer l'intégration du z39 de Harold dans le site web BDNES (utiliser une horloge pendant le temps de recherche)

Done Local intranet



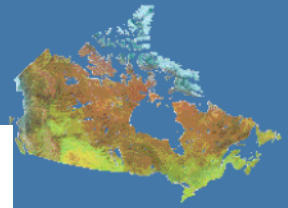
## Web 2.0 - WiKi examples #3



### LCNP Wiki

- Who: ESS Digital cartography and photogrammetry laboratory (LCNP) - Quebec City (small group)
- Access: ESS Intranet only, inside NRCan firewall
- When: 2005 to today...current and active
- How: MediaWiki (originally used for Wikipedia)
- Why: posting of the project information
- Benefit: helped keep documentation and day to day project management at one location

# Web 2.0 - WiKi exemples #3



Accueil - WikiLcnp - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites

Créer un compte ou se connecter

article discussion modifier historique

## Accueil

**Sommaire** [masquer]

1 Wiki du LCNP

- 1.1 Normes et procédures du labo
- 1.2 Projets associés au labo
- 1.3 Initiatives (interne) du labo
- 1.4 À propos du wiki

**Wiki du LCNP** [modifier]

 Bienvenue au wiki du [LCNP](#), un site Web dynamique permettant aux participants d'en modifier les pages à volonté. Il permet non seulement de communiquer et diffuser des informations rapidement, mais de structurer cette information pour permettre d'y naviguer commodément. Visitez [Wikipedia](#) pour plus d'info sur l'origine et l'utilité d'un wiki.

l'origine et l'utilité d'un wiki.

Wikimedia a mis à votre disposition un [site demo](#) pour vous amusez sans risquer de modifier par erreur le contenu de site. Des heures de plaisirs! ;-)

**Normes et procédures du labo** [modifier]

- [Normes et procédures](#) (Note: Migration des procédures terminée) --Hjulien 15 mai 2006 à 16:42 (Est (heure d'été))
- [Politique sur la gestion des données](#)

**Projets associés au labo** [modifier]

- [Liste des projets](#)

**Initiatives (interne) du labo** [modifier]

Local intranet

nrcan.gc.ca - ProjetsLCNP - WikiLcnp - Microsoft Internet Explorer

Tools Help

Home Search Favorites

Créer un compte ou se connecter

article discussion modifier historique


## ProjetsLCNP

### Liste des projets associés au LCNP

[modifier]

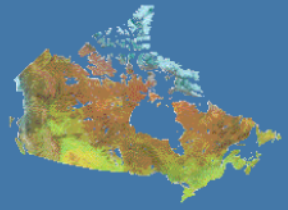
- [Microzonage sismique](#) - Communauté métropolitaine de Québec
- [pw:Pathways](#) : Projet Pathways/Groundwater
- [TGIAbitibi](#) : Targeted Geoscience Initiative - Abitibi
- [TGIGeneralization](#) : Targeted Geoscience Initiative - Map Generalization
- [Environment&Health](#) : Testing SVM Application in Stable Isotope Geochemistry
- [Okanigan](#) : SVM Application in 3D Geological Modelling
- [LCNPOtherSVM](#) : SVM Application in Other CGC Projects

Dernière modification de cette page le 25 septembre 2006 à 15:19. Cette page a été consultée 79 fois. [Privacy policy](#) [À propos de WikiLcnp](#) [Avertissements](#)

Powered By  MediaWiki

Local intranet

# Web 2.0 - WiKi Successes



## Successes

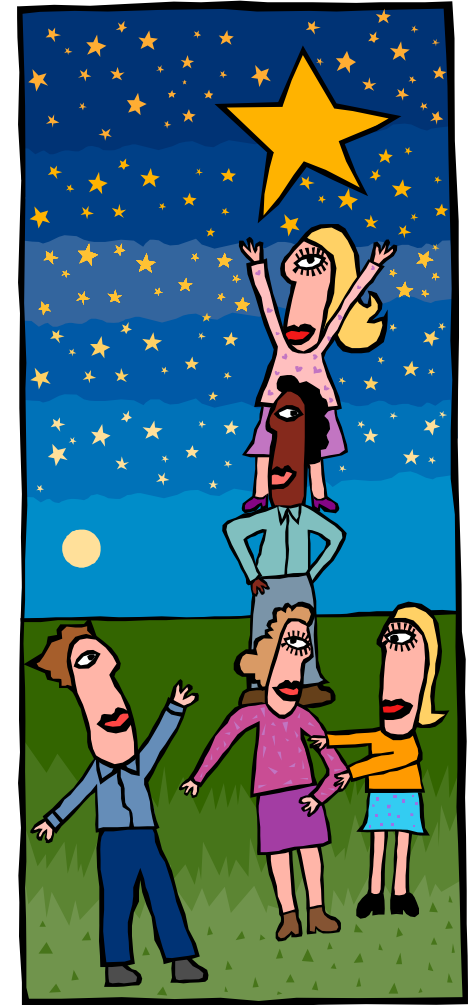
### Output

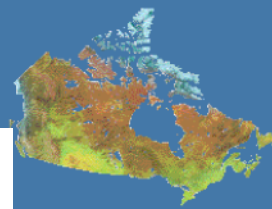
- Central location for project ideas, progress
- an archive



### Outcomes

- Empowered project staff
- Improved project communication
- Reduced email and email attachments





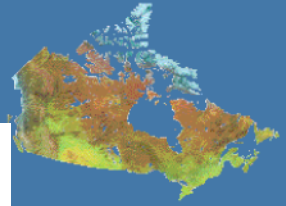
# Web 2.0 - WiKi Challenges

1. Control of Content? What Control ?  
Anonymous postings (yes or no?)  
User Trust - can change content of others,  
Wikipedia – “vandalism”
2. GOC Common Look & Feel
3. Directive on the Use of Official  
Languages in Electronic  
Communications
4. Free WIKI tools are not very flexible
5. Atip, Privacy issues





# Web 2.0 WiKi Challenges



## Wider Usage Challenges – Scaling up

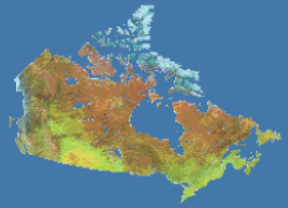
- Examples = work for small, one language, internal work groups (controlled-access sites)
- Issue with large work groups, and with external collaboration, Canadian Public.

## Bottom Line

Obligations related to a content intended for the public and employees

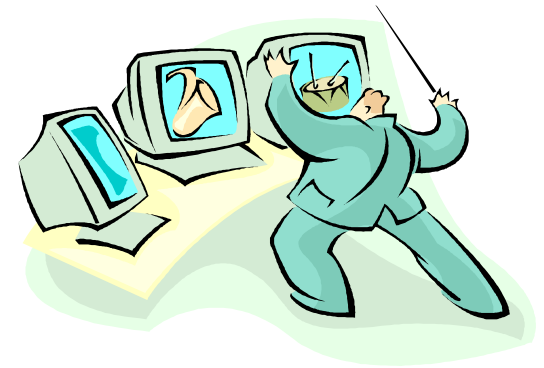
[http://www.tbs-sct.gc.ca/pubs\\_pol/hrpubs/OffLang/duolw-dulow01\\_e.asp](http://www.tbs-sct.gc.ca/pubs_pol/hrpubs/OffLang/duolw-dulow01_e.asp)

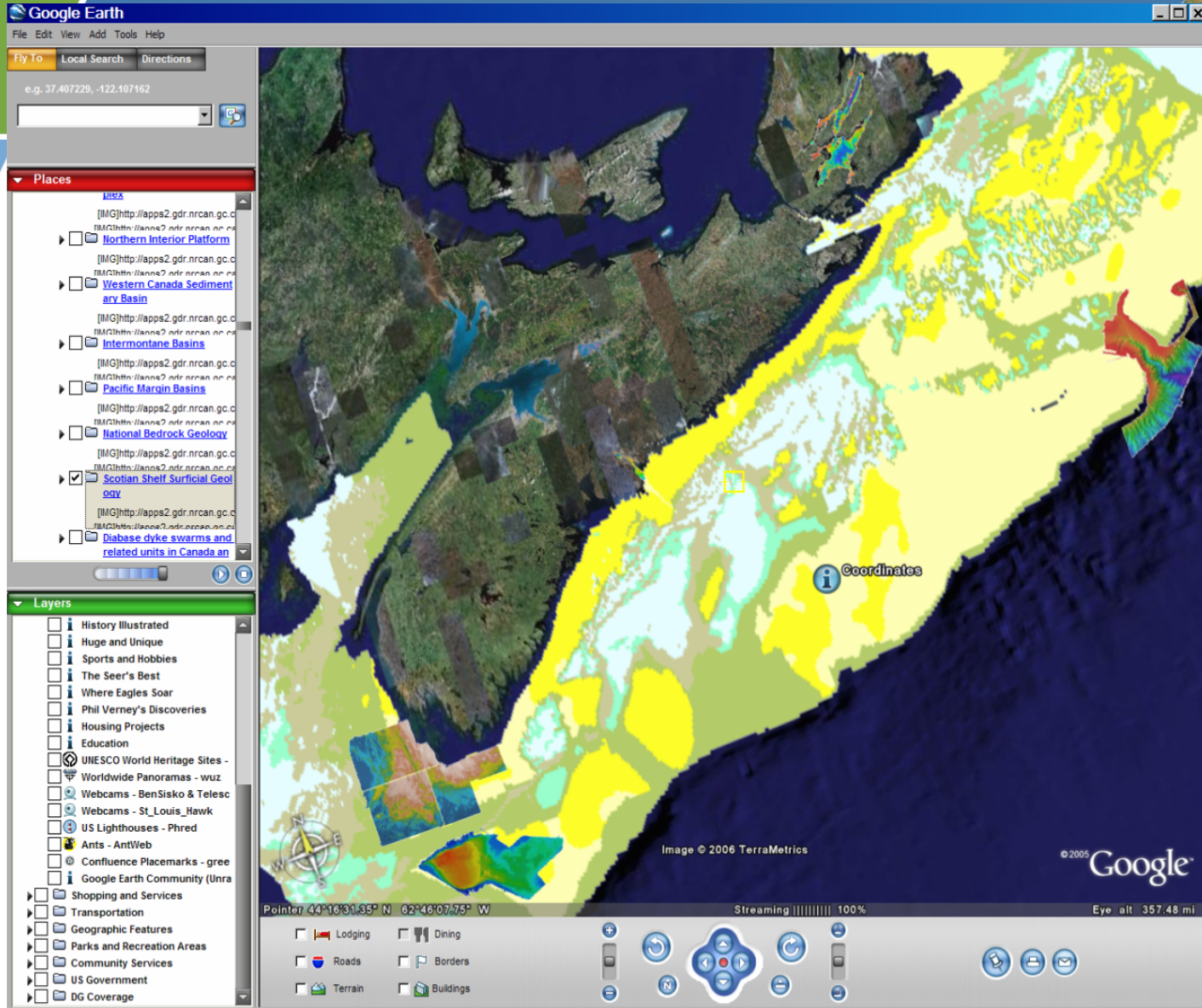
[http://www.tbs-sct.gc.ca/clf-nsi/index\\_e.asp](http://www.tbs-sct.gc.ca/clf-nsi/index_e.asp)

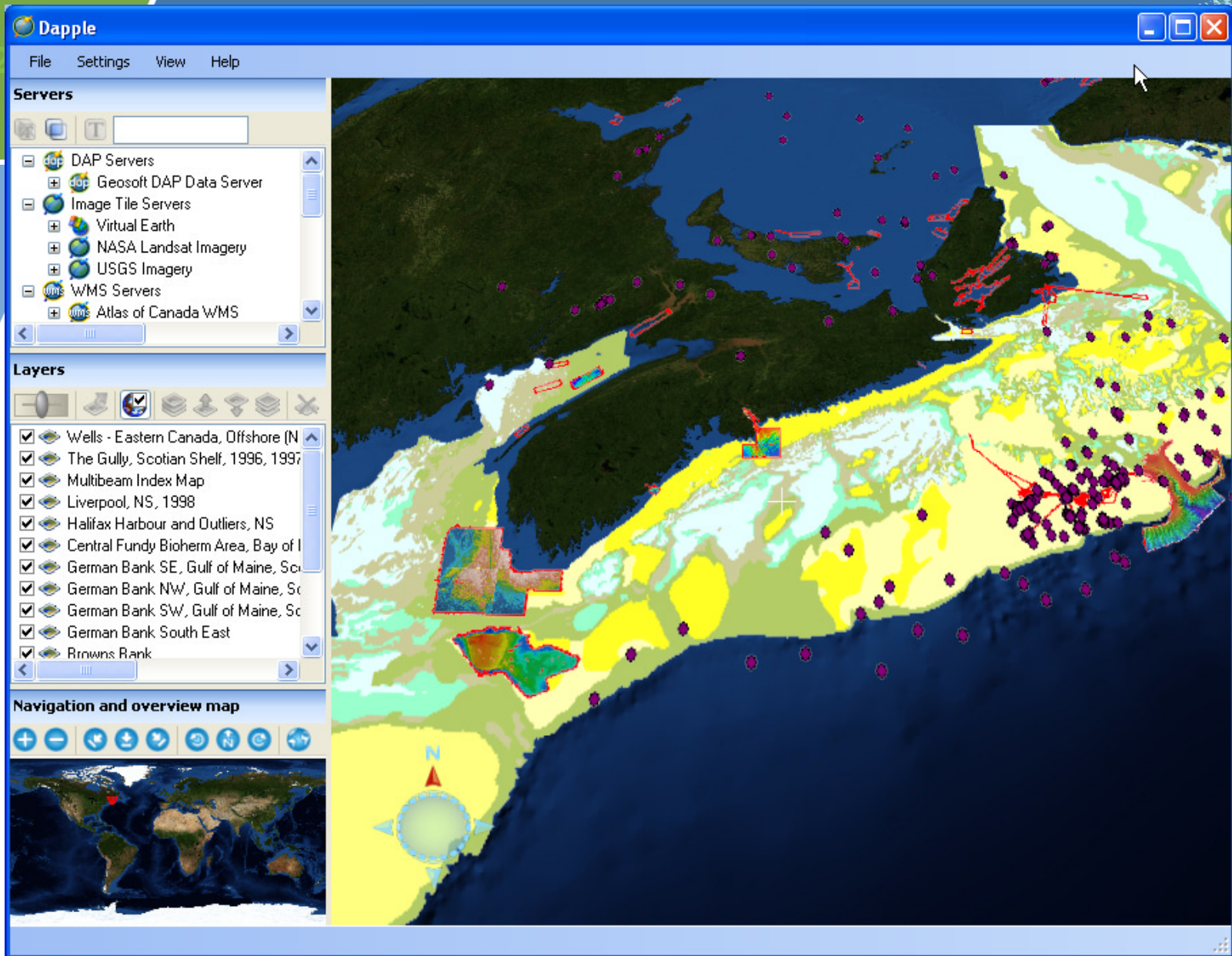


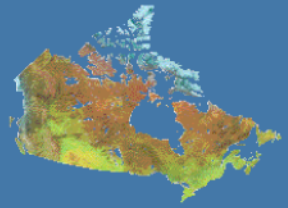
## Web 2.0 – Web services

- Standards of the Canadian Geospatial Data Infrastructure (CGDI)
- web services are based upon internationally-recognized web service interface specifications, primarily developed by the [Open Geospatial Consortium \(OGC\)](#).
- Many up an running now in GOC
- What do they do for us?
- Challenges









## Conclusions

- Web 2.0 is being exploited in the federal government now.
- Enhances communications and further empowers Canadians – it is expected
- It bring a new set of Challenges – communications directives, Common look and Feel, security
- Questions????