



**Report for Reference to Council
Open Data, Open Standards,
Open Source (Open 3)**

February 15th, 2011

Council Motion – May 21, 2009

- THEREFORE BE IT RESOLVED THAT the City of Vancouver endorses the principles of:
 - **Open and Accessible Data** - the City of Vancouver will freely share with citizens, businesses and other jurisdictions the greatest amount of data possible while respecting privacy and security concerns;
 - **Open Standards** - the City of Vancouver will move as quickly as possible to adopt prevailing open standards for data, documents, maps, and other formats of media;
 - **Open Source Software** - the City of Vancouver, when replacing existing software or considering new applications, will place open source software on an equal footing with commercial systems during procurement cycles.



Open Data Results

Work to Date

- Launched pilot open data website September 2009
- Starting point: 75 datasets of information which was already in the public domain but not in open formats and not available for ready download
- Today: 126 datasets are available
 - Engineering assets
 - Parks and community information
 - School boundaries
 - Property zoning districts and labels
 - Traffic counts & signals
 - Rapid Transit
 - Bikeways
 - Voting boundaries & election results
 - Garbage & recycling schedules
 - Business licences

Vancouver's Open Data Catalogue

Ongoing input from citizens re: what data they want to see

Tools to assist in using the data correctly

- Open data home
 - Get the data
 - Data catalogue
 - City web feeds
 - About the data
 - Data formats
 - Data updates
 - Terms of use
 - Feedback

Collaborative Cities
The Cities of Vancouver, Edmonton, Ottawa and Toronto have recently joined forces to collaborate on an "Open Data Framework". The project aims to enhance current open data initiatives in the areas of data standards and terms of use agreements. Please contact us for further information.

Vancouver is partnering with other cities on common themes and projects around open data



Updates

Parks-related datasets survey results

November 29, 2010
Thanks to everyone who had participated in the Parks-related datasets survey. The survey is now closed, please view the summary results.

Feedback wanted on parks-related datasets

November 18, 2010
Vancouver's Open Data Team is looking for feedback from the Open Data community and others interested in Parks and Recreation related information. We would like to know which Parks related datasets you would like to see published and how important they are to you. Check out these potential datasets and let us know what you think.

Business License data added to Open Data site

September 28, 2010
The City has just added Business Licenses data to the Open Data web site. Business licenses are required in order to operate a business in the City of Vancouver and are obtained from the City's License Office. This dataset provides information on business name, type, status, location and other details.

Give us your feedback
Which data items would you still like to see added to the City's Open Data site? Fill out the survey.

Open Data updates
Receive updates on developments related to this site:
Subscribe to the RSS feed
Subscribe to the mailing list
Open Data update history

Users can sign up for automatic updates

Connect with the Community
Community developers have created a wiki and discussion group to share application ideas and discuss datasets.
Vancouver Open Data Wiki
Discussion Group

Connection to the wider open data community

Please note: These community sites are not affiliated with the City of Vancouver.

Background
City Council Motion: Open Data, Open Standards and Open Source (PDF) 22 KB



Current Usage

- 45,000 individual dataset downloads
- 206,136 visits with an average of 425 per day
- Favourite data downloads:
 - property information
 - geospatial data (e.g., cadastral, contours,...)
 - infrastructure (e.g., water, sewers, lighting,...)
 - local area boundaries
 - garbage collection
 - rapid transit

How Open Data is being used today...

Commercial Applications



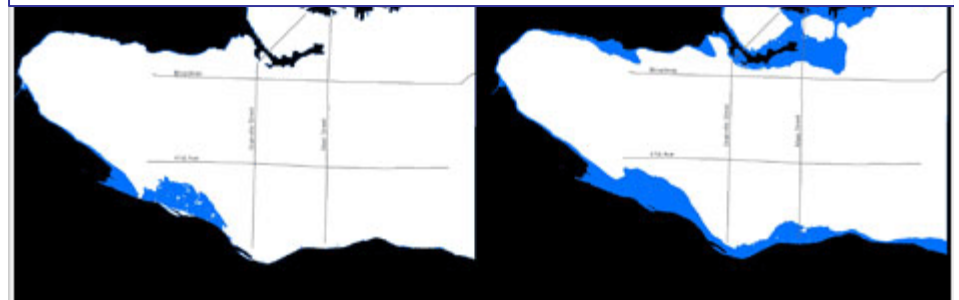
The screenshot shows the VanTrash website in a Microsoft Internet Explorer browser. The address bar displays <http://vantrash.ca/>. The page features a green header with the VanTrash logo and navigation links: Map, Frequently Asked Questions, Tell a friend, Donate, Technical API, and Follow us on Twitter. A search bar contains the address "149 West 4th". The main content area includes a map of Vancouver with various zones outlined in red and blue. Text on the page explains that VanTrash helps manage garbage schedules and provides instructions on how to use the service. A prominent banner at the bottom left reads "DON'T TRASH YOUR FOOD" with images of food items. The footer includes a copyright notice: ©2009 Luke Closs and Kevin Jones.

Academic Research

How global warming might transform Vancouver's shoreline

Bing Thom Architects has investigated how global warming might transform Vancouver's shoreline if no dikes are built.

By Charlie Smith



With a two-metre rise in sea level and no new dikes (left), Vancouver will lose land in Southlands. With a seven-metre rise (right), downtown and Stanley Park could become islands. Bing Thom Architects maps.

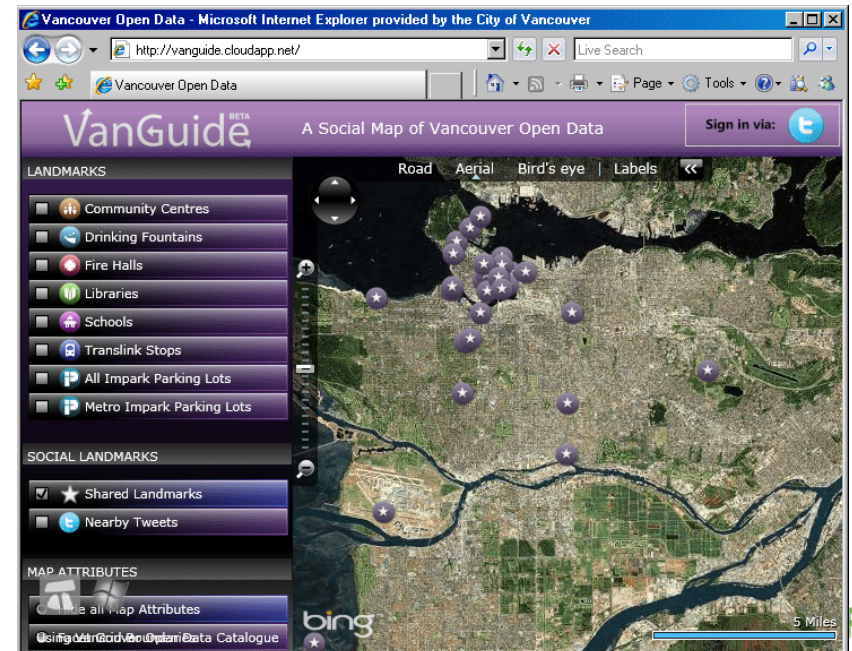
How Open Data is being used today...



The screenshot shows the 'parking mobility' website. At the top left is the logo, and at the top right are links for 'Sign In' and 'Get Started'. A navigation bar contains links for 'Find Parking', 'Features', 'Support', 'Blog', 'About', 'Contact', 'Donate', and 'Free Download!'. Below the navigation bar, on the left, is a smartphone displaying a map with green pins. To the right of the phone is the heading 'Citizen Reporting of Disabled Parking Abuse' and the text 'Report when someone parks without a disability placard. Find disabled parking on your phone or on the web.' At the bottom of this section are two buttons: 'Make a Difference!' and 'FREE Download'.

Community Engagement

Social Networking



The screenshot shows a web browser window displaying the 'VanGuide' website. The browser title is 'Vancouver Open Data - Microsoft Internet Explorer provided by the City of Vancouver' and the address bar shows 'http://vanguide.cloudapp.net/'. The website header includes the 'VanGuide' logo, the tagline 'A Social Map of Vancouver Open Data', and a 'Sign in via:' button with a Twitter icon. The main content area features a map of Vancouver with several purple pins. On the left side, there is a sidebar with categories: 'LANDMARKS' (Community Centres, Drinking Fountains, Fire Halls, Libraries, Schools, Translink Stops, All Impark Parking Lots, Metro Impark Parking Lots) and 'SOCIAL LANDMARKS' (Shared Landmarks, Nearby Tweets). At the bottom of the sidebar are 'MAP ATTRIBUTES' (Hide all Map Attributes) and a 'Data Catalogue' link. The map itself has a 'bing' logo and a '5 Miles' scale bar.

How Open Data is being used today...

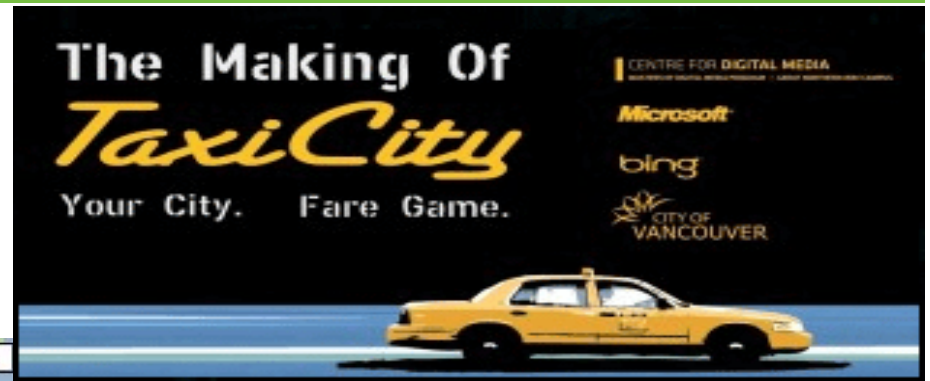
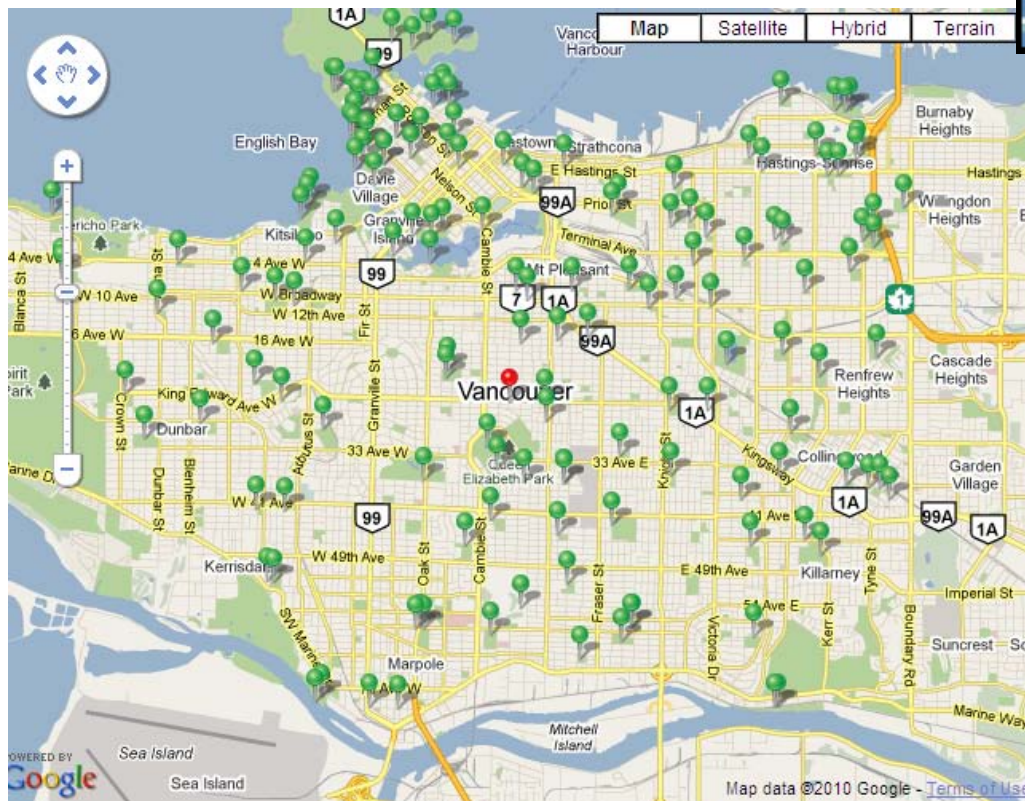


Knowledge Centres | Community | Publications | Events | Services | Media
Hot Topics: Collaboration • Drives • RIM • Performance Problems • Switching • Tablets • Saudi Arabia •
Home >> Government

Vancouver grads build game with government data

By: Jennifer Kavur On: 08 Jun 2010 For: ComputerWorld Canada **COMPUTERWORLD**

Open data can change the gaming industry, says one grad student who co-developed TaxiCity. The Web-based driving game uses Silverlight, Bing Maps and the City of Vancouver's Open Data Catalogue

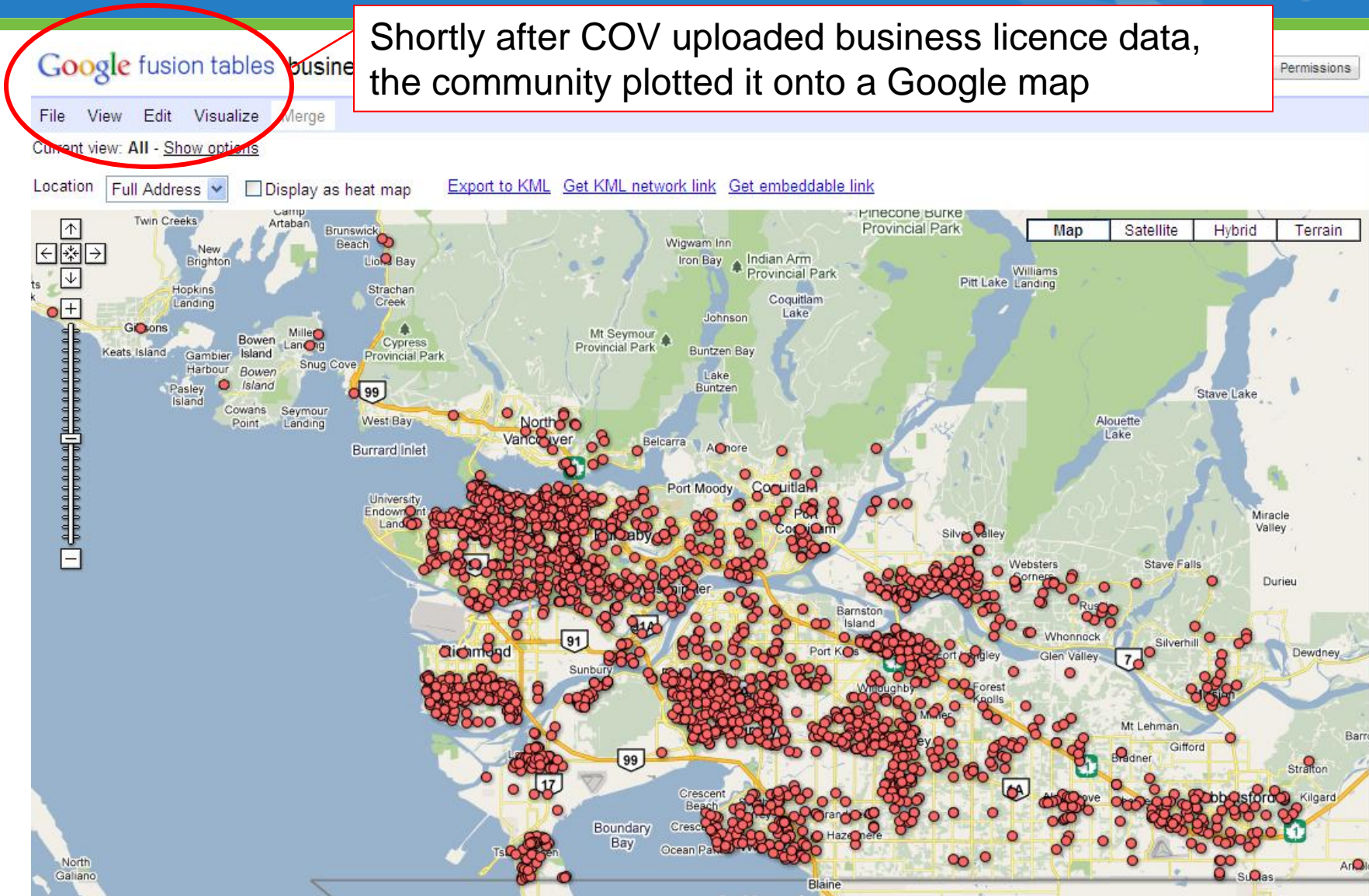


On-line Games



Business Licence Data

Shortly after COV uploaded business licence data, the community plotted it onto a Google map



Business Licence Data - detailed view

business_licences.csv with geocoding mojo, 12/4 - Google Fusion Tables - Microsoft Internet Explorer provided by the City of Va
business_licences.csv with geocoding mojo, 12/4 - Google Fusion Tables - Microsoft Internet Explorer provided by the City of Va

http://www.google.com/fusiontables/DataSource?snapid=112731

File Edit View Favorites Tools Help

Gmail Calendar Documents Photos Web more

Google fusion tables business_licences.csv with geocoding mojo, 12/4 City of Vancouver

Discussions (0) Saved links (1) Get link Permissions

File View Edit Visualize Merge

Current view: All - Show options

Location Full Address Display as heat map Export to KML Get KML network link Get embeddable link

Map Satellite Hybrid Terrain

LicenseRSN: 1431105
LicenseNumber: 10-123873
LicenseRevisionNumber: 0
BusinessName: Starbucks Coffee Canada Inc
BusinessTradeName: Starbucks Coffee
Status: Issued
IssuedDate: 1/18/10 11:55
ExpiredDate: 12/31/10 0:00
icon:
BusinessType: Ltd Service Food Establishment
BusinessSubType:
Unit:
UnitType:
House: 1395
Street: Main St
City: Vancouver
Province: BC
Country: CAN
PostalCode: V6A 4B6
Full Address: 1395 Main St, Vancouver BC V6A 4B6
LocalArea: 02-Central Business/Downtown
NumberOfEmployees: 0
FeePaid: 439
ExtractDate: 11/24/10

Main Skytrain
Terminal Ave
Station St
National Ave
Thorn...

POWERED BY Google

Open data home

Get the data

[Data catalogue](#)
[City web feeds](#)

About the data

[Data formats](#)
[Data updates](#)
[Terms of use](#)

Feedback

Data catalogue

Council expenses data

Data custodian: City Clerks Department and Accounting Operations Department

Data currency comments: The extract on this website is updated once a year.

Data set description: In accordance to the Council motion passed on March 23, 2010, staff have implemented best practices for municipal on-line public disclosure of Mayor and Council budget and expenses annually.

Data accuracy comments: Some expenses may not reconcile within the same reporting period.

Attributes

- Auto Allowance
- Business Expenses
- Communication Expenses
- Educational Expenses
- Membership Expenses
- Parking and Transportation Expenses
- Total Local Expenses
- Annual Budget for Local Expenses Only
- Variance
- Travel & Training Expenses
- Total Expenses
- G/L Account

Websites for further information

- Vancouver City Council
- Council motion on March 23, 2010
- By-Law 7465
- By-Law 8904
- 2002 Annual Report on Council Remuneration and Expenses

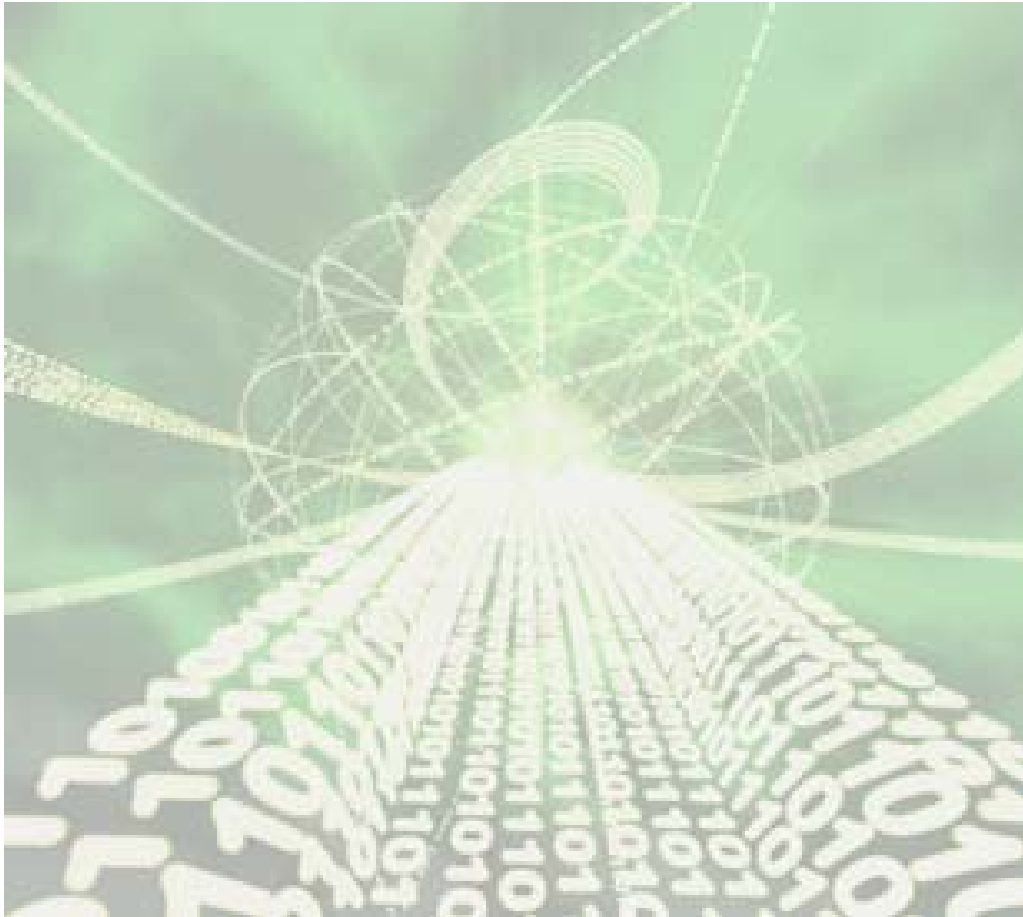


Most Requested New Datasets

- Crime statistics
- 311 data
- Council Information
- Sustainability information
- 2011 Municipal Election - voting results in open format
- Permits
- Cemetery Records
- Vancouver Public Library - circulation data
- Upcoming City projects
- Awarded City contracts
- More Community Center Data
- More Parks information

Planned New Datasets for 2011-2012

- Crime statistics
- 311 data
- Council Information
- Sustainability information
- 2011 Municipal Election voting results
- Parks information: *e.g., Street Trees, Field Closures, Parks Listing, Public Park Art, Projects, ...*



Open Data Evolution

Open Data Trends & Expectations

- Simple tools - to access, use and display data
- Participation of others
- Common store-front and terms of use
- Shared experiences and results
- Open data principles are integral to our business

City and Community Benefits

- Transforms engagement, collaboration, innovation and empowerment
- Builds trust between community & government
- Enhances return on investments in data
- Economic development opportunities
- Assists with transformation and value for money in public sector
 - e.g., citizen self service

The Challenges

- Privacy
- Cost
- Time
- Misinterpretation
- Strategic risk vs. accessibility
- Fear

The Vision

A user-friendly, multi-agency store-front to access and publish data



Datasets

CATEGORY

- Census
- Demographics
- Economic Development
- Education
- Environment
- FIPS
- Government Operations
- Health Care

DATA SOURCE

- Bureau of Labor Statistics
- District of Columbia
- General Services Administration
- New America Foundation
- U.S. Geological Survey

DATES

from to

KEYWORDS

STATUS

- Published
- Planned

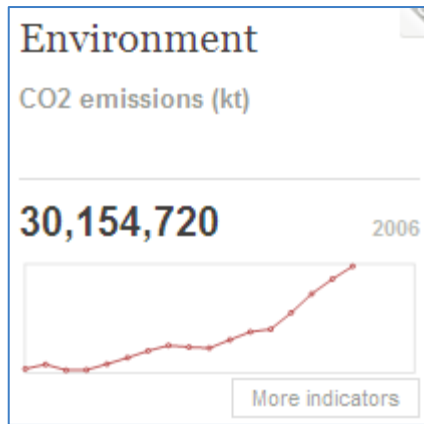
NAME ▲	CATEGORY	STATUS	DATE	RATING	VIEWS
Parks Digital version of the National Park Service Map A, indicating Park Service properties and other government-owned land	Environment	Published	01/12/2004	not rated	0
Recreation Parks The dataset contains general locations and amenity information about the properties under the jurisdiction of the DC Department of Parks and Recreation	Environment	Published	04/18/2007	not rated	0

Have an idea about the data you would like to see here? Request it [here](#)

1 of 1 Items per page

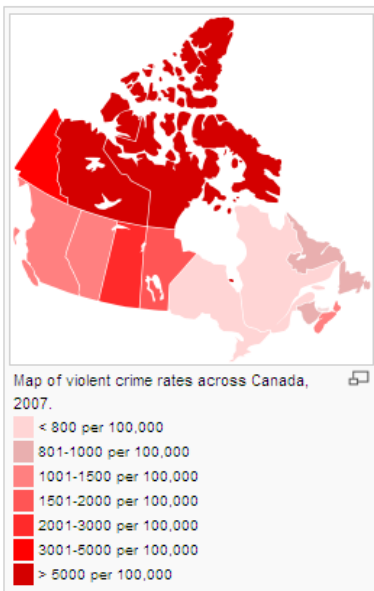
The Vision

Government transparency & business intelligence, new applications, community awareness & engagement, etc.



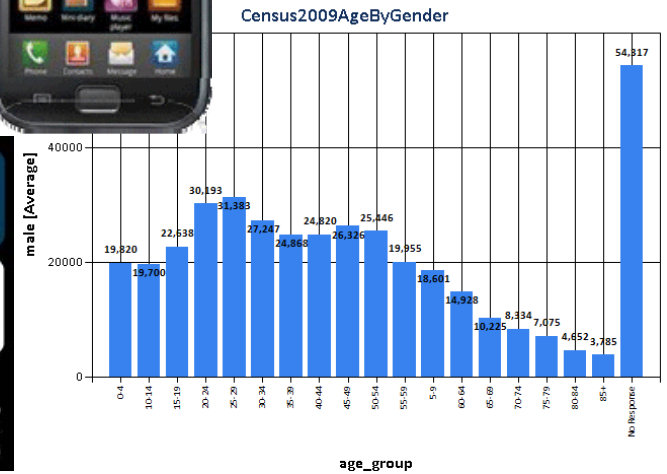
Share
Find in this Dataset

More Views
Filter
Visualize
Export
Discuss
Embed
About



Tuesday 22

APPS, APPS, & MORE APPS



Where next? 2011 and beyond

City is well positioned to continue its leadership role in open data

- Publish more data to meet demand
- Engage the community
- Provide a common platform & tools for better access
- Collaborate with other cities and levels of government
- Build a new licensing agreement
- Integrate 'openness' into everyday business



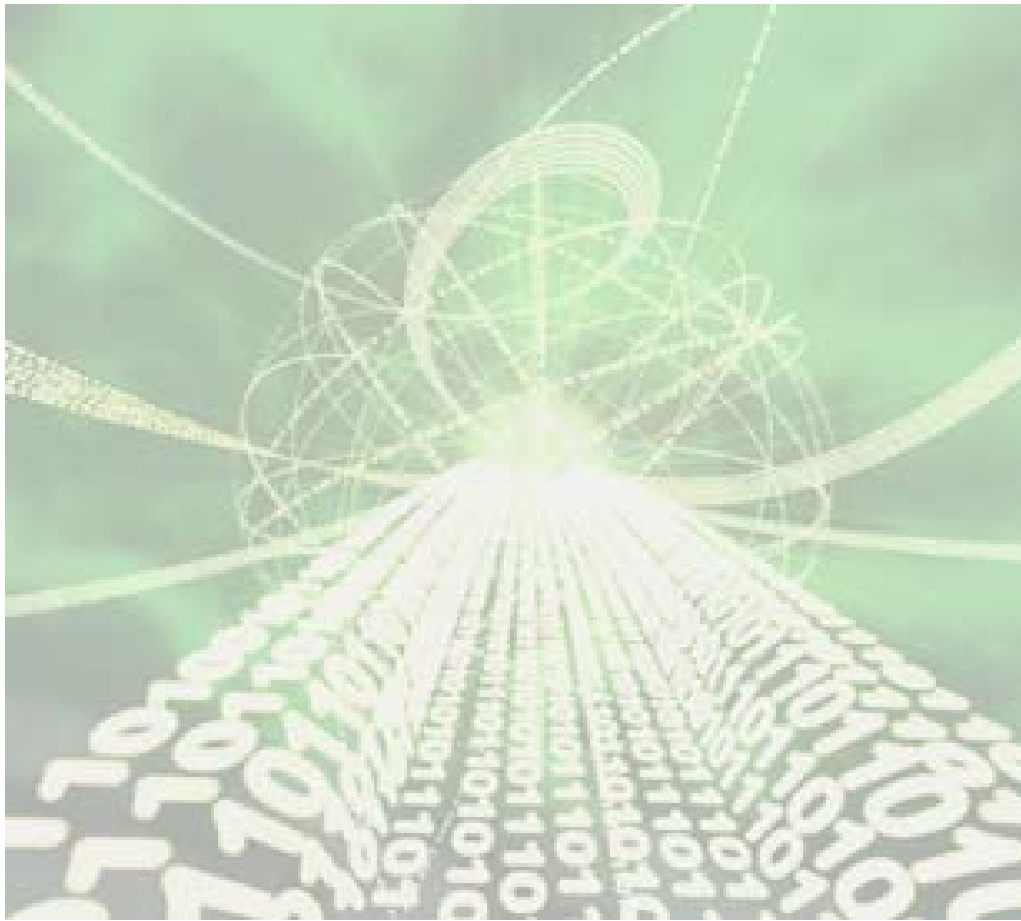
Open Standards & Open Source

Status of Open Source Software

- Aligned software acquisition process with 'open' criteria
 - updated procurement documents
 - changed terms and conditions
- Open source software will be evaluated fairly alongside proprietary software
 - overall fit with business requirements
 - total cost of ownership of each solution

Status of Open Standards

- IT industry and products are increasingly 'open'
- City is building open principles into IT processes
 - Systems development
 - Tools and utilities
 - Stated preference for 'open standards'



Questions