

WellbeingToronto



**Open Data / Open Analysis:
The Democratization of Indicators
and their Analyses**



Definitions

Open Data is a philosophy and practice that makes data easily available in order to enable re-use of the data in new and unforeseen ways. (web2maps)

A piece of content or data is open if anyone is free to use, reuse, and redistribute it — subject only, at most, to the requirement to attribute and share-alike. (Open Definition)

etc...

NOTE:

OPEN DATA \neq OPEN GOVT \neq OPEN ANALYSIS

10 Principles

Modified from the principles found now on the internet...

Government data is “open” if:

- ✓ **ACCURATE:** It is complete and accurate
- ✓ **RELIABLE:** It is collected at the source or can be linked back to the source
- ✓ **USEFUL:** It is useful to the community
- ✓ **PROTECTS PRIVACY:** It is at a level of granularity that does not breach privacy
- ✓ **CURRENT:** It is up-to-date
- ✓ **PROCESSIBLE:** It structured to allow automated processing
- ✓ **NON-PROPRIETARY:** It is available in formats where no entity has exclusive control
- ✓ **LICENSE FREE:** It is free for open use and re-use where no entity has exclusive controls
- ✓ **ACCESSIBLE:** It is available to all users without discrimination
- ✓ **EXPLAINS:** It informs users what they are getting (relatively new)

Current Environment in CANADA

Federal

- *Geogratis & Geobase & Discovery Portal & Atlas of Canada - GeoConnections Natural Resources Canada*
- *Office of the Information Commissioners Open Government Resolutions*
- *Treasury Board of Canada – OpenData.gc.ca*
- *Research Data Canada – National Research Council*
- *ALMOST OPEN – Statistics Canada & Universities – Data Liberation Initiative*
- *Data dot GC.ca, Citizen’s initiative to Inspire the Canadian Government*
- *Canadian International Development Agency (CIDA) Open Data*

Provinces

- *Data BC – Province, OpenData BC – Citizen Led*

Source Datalibre.ca

Current Environment in CANADA

Cities

- *G4 Open Data Framework; Municipal Open Government Framework*
- *City of Burlington (ON)*
- *City of Calgary (AB)*
- *City of Edmonton (AB)*
- *City of Guelph (ON), Guelph Coffee and Code – Citizen Led*
- *City of Hamilton (Transit Feed) (ON), Open Data Hamilton – Citizen Led*
- *OpenHalton (ON) – Citizen Led*
- *City of London (ON), OpenData London – Citizen Led*
- *Township of Langley (BC)*
- *City of Mississauga – Mississauga Data (ON)*
- *Montréal Ouvert (QC)- Citizen Led*
- *City of Nanaimo (ON)*
- *City of Niagara Falls (ON)*
- *District of North Vancouver (BC) GeoWeb*
- *City of Ottawa (ON), Citizens' APP Group – OpenData Ottawa*
- *Capitale Ouverte (QC)- Citizen Led in Québec City*
- *City of Prince George (BC)*
- *City of Surrey(BC)*
- *City of Toronto (ON); DataTO – Citizen Group*
- *City of Vancouver (BC); Open Data Wiki*
- *Region of Waterloo (ON) – Citizen Led*
- *City of Windsor (ON) Open Data Catalog*

Toronto - Current Status

- Open Data launched in September 2009 (www.toronto.ca/open)



- Part of the original G4 (Edmonton, Ottawa, Toronto, Vancouver): Now developing OD frameworks, policies, and standards

- Internal City Committees to proactively review, refine, and develop OD policies related to:


- records management, retention, and licensing
- refined procedures for data capture and release
- improved quality control
- expanded representation across all areas of the City
- a systematic approach!

- *After data comes applications* - New related business applications that focus on OPEN DATA and OPEN ANALYSIS (e.g., WELLBEING TORONTO – launched in June 2011) →

www.toronto.ca/wellbeing



Community Response

Browse Requests Create Request Hi, Guest User. [Sign in](#) | [Become a Member](#) Search

Welcome!

This site is for users and publishers of open access data in the Toronto region (toronto.ca/open). It is a very early alpha release, so if you experience issues [report them here](#). Today you can publish a request for data to the community, where members can comment and rate the request. In future iterations of this site, publishers and others will be able to post details of known and existing data sources so that community members can rate them for prioritization. Users will then be able to find data sources that have been published.

[Create a Request](#)

About Us

We are a community of people from the Toronto region who have an interest in freeing data to support innovation in the public, social and private sectors. This site has been built by and for the community. It is a space for community members to find, unlock, publish and use open data for civic, social and economic purposes. [More...](#)

Join the discussion in our [Google Group](#).

Activity

Hottest Requests

- [Subway GIS Shapefile](#)
- [My thesis about leftover spaces in Toronto](#)
- [2006 City of Toronto Ward profiles](#)

Most Recent Requests

- [2006 City of Toronto Ward profiles](#)
- [My thesis about leftover spaces in Toronto](#)
- [Subway GIS Shapefile](#)
- [WiFi Usage](#)
- [City of Toronto Employment Districts](#)


Most Commented Requests

- [Request to make the TTC's Next Vehicle Information System data available](#)
- [TTC Bus GPS data](#)
- [What Toronto Police Dataset do you wish to have?](#)
- [Better automated computer access to data](#)
- [Toronto Orthophotos \(rectified air photography\)](#)

Most Contentious Requests

- [Create Dev Community](#)
- [Provide TTC route information in mashable format](#)
- [Committee of Adjustments Decisions](#)
- [OW Payment to City vs. Direct Benefit Payment to Recipient](#)
- [One way streets](#)

Latest Tags



Toronto

A city of Neighbourhoods



CHALLENGES

- ❖ The Municipal Funding Model (lack of resources & fiscal tools)
- ❖ Pressures of Urbanization and Offloading
- ❖ Economic & Social Transformation (Aging, Migration, Immigration, Changing economies)
- ❖ Weakening of the Global Economy
- ❖ Municipalities must **ADAPT**

SOME RESPONSES

- ✓ Mixed Service Delivery Model
- ✓ Creative Collaboratives & MOUs
- ✓ Open Data --> Open Mapping --> **OPEN ANALYSIS**
- ✓ **WELLBEING TORONTO** ... *A different approach to Creative Mapping*

WELLBEING TORONTO



Key Outcome from Strong Neighbourhoods Task Force:

- ❑ Established legitimacy of analysis and targeted investment at the neighbourhood level

Achieved through:

- ❑ Development of fact base to inform the identification of service inequities
- ❑ New method for measuring service accessibility
- ❑ Overlaid service accessibility information with demographic data
- ❑ Result central to the identification of 13 priority areas
- ❑ Now lays the foundation for new system of monitoring wellbeing across all neighbourhoods

What is WELLBEING TORONTO?

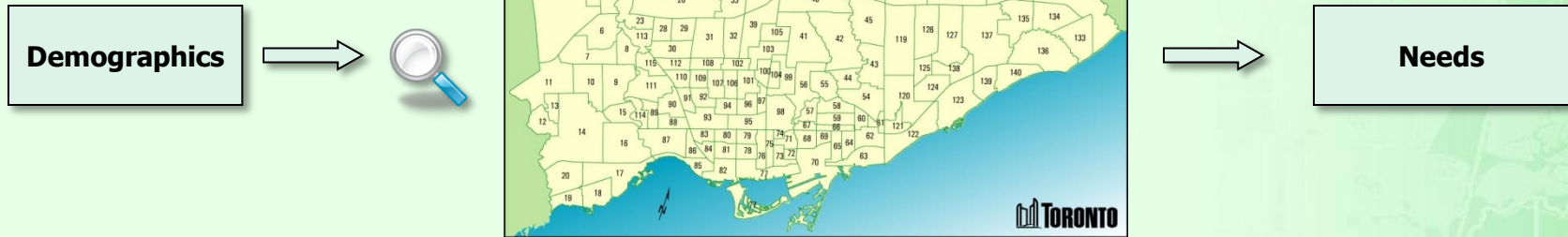
- ✓ A new web tool that helps measure neighbourhood wellbeing.
- ✓ Increases government capacity to manage and plan for the human services sector from a “systems” perspective
- ✓ Improves decision making, and government transparency when a place-based lens is needed
- ✓ Leverages & consolidates data across the entire corporation!
- ✓ Empowers users by allowing them to custom select indicators and see their results instantly on a map, graph or table, and to do their own analysis by emphasizing the importance (weighting) of indicators to suit their own needs!
- ✓ Provides transparency by providing access to over 150 indicators from City sources that describe neighbourhood wellness free for use by all levels of government and the public

WELLBEING TORONTO

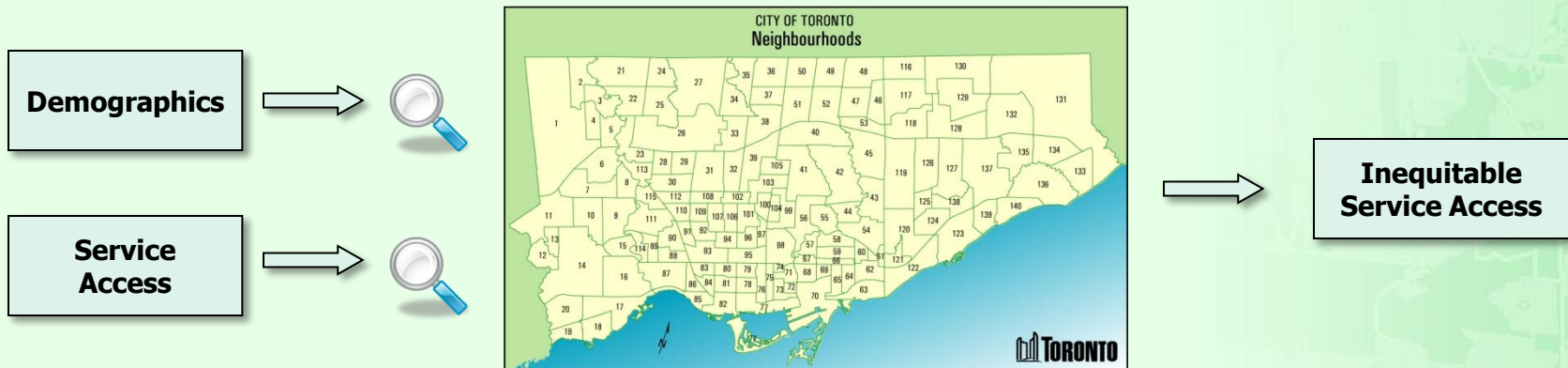
- ✓ New web tool that helps measure “neighbourhood” wellbeing
- ✓ Select indicators and see your results instantly on a map, graph or table or table
- ✓ Combine and weight data to suit your own needs
- ✓ Improves decision making and government transparency when a place-based lens is needed
- ✓ Leverages & consolidates data across “silos”
- ✓ An evolving supplementary tool and new approach (NO MORE BLACK BOX)
- ✓ A collaborative Open Data approach, full range of indicators across domains, value-free, and accessed for free

Strong Neighbourhoods – the Evolution

Traditional Analysis



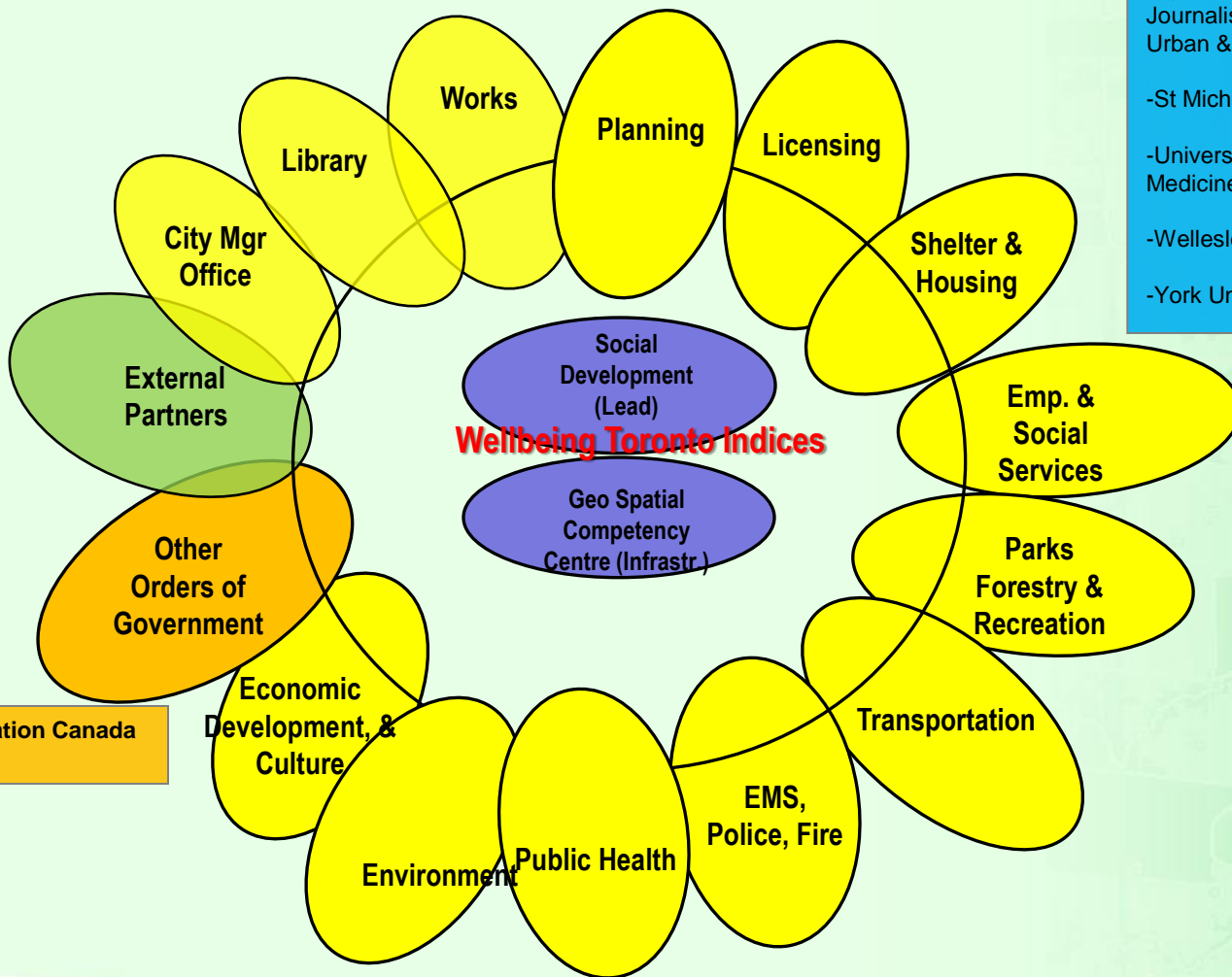
SNTF Analysis



Partnerships & Collaborations

- FindHelp Info Services (211)
- TDSB TDCSB
- School Bds
- LHIN
- United Way
- St. Christopher House
- Centre for Inner City Health at St.Michael's Hospital
- Social Planning Toronto
- Housing Connections
- TCHC
- Toronto Community Foundation
- Woodgreen Community Services
- YMCA of Greater Toronto
- Academia

- Citizenship Immigration Canada
- Statistics Canada



ACADEMIC EXPERT PANEL

- McMaster University (Health)
- Ryerson University (Geography, Journalism, Politics, Public Policy, Urban & Regional Planning)
- St Michael's Hospital
- University of Toronto (Geography, Medicine, Planning, Social Work)
- Wellesley Institute
- York University (Geography)

QUALITY CONTROL

Accessibility: data can be obtained easily and at an affordable cost

Comparability: can be related to other indicators and standardized

Consistent: geographically spread and does not change much over time

Credible: believable to domain experts and comes from a reliable source

Relevant: indicator measures progress towards a goal, not just random number-counting. It resonates with the audience, both public and expert.

Measurable: indicator can be framed as a number, percentage or proportion

Valid: the indicator measures what it is intended to measure and not a by-product. Well-grounded in theory and fact.

Wellbeing Toronto

Indicator Domain Areas

Housing

Environment

Health

Safety

Education

Civics

Transport

Recreation

Culture

Economics

Human Services Infrastructure

Location of schools, libraries, recreation centres, etc.

Socio-demographics

Population Age, sex, income, education, etc.

Types of Indicators for first Release – June 2011

HEALTH

- Health outcomes (e.g., premature mortality)
- Community-based programs & services

HOUSING

- City program use (e.g., rent bank applications)
- Social Infrastructure (social housing, long-term care for seniors)
- Housing locations

ECONOMICS

- Employment & unemployment
- Local employment

ENVIRONMENT

- Green space, tree canopy
- Programs & resources (e.g., community gardens)

SAFETY

- Incidents (e.g., fire, crime, EMS)
- Location of services

TRANSPORTATION

- Public transit use
- Traffic statistics

RECREATION

- Program use
- Service infrastructure (arenas, parks & recreation centres)

CIVIC ENGAGEMENT

- City beautification initiatives
- Voter turnout
- City program use (e.g., rent bank applications)
- Social Infrastructure (social housing, long term care form seniors)
- Housing locations (highrises/condominiums)

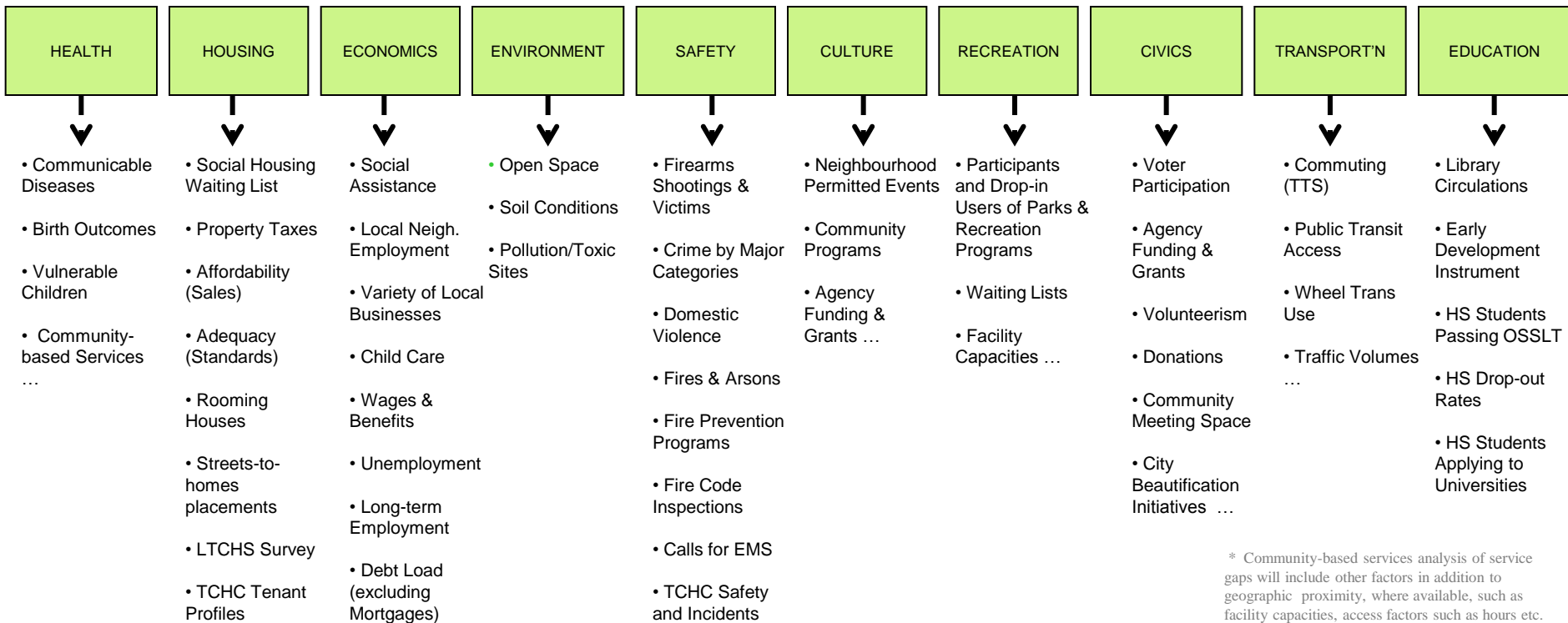
EDUCATION

- School preparedness
- School statistics (applications to universities/colleges, drop out rates)

DEMOGRAPHIC DATA (age, gender, income etc.)

Toronto Neighbourhood Well-being Indices

Version 1 – Indicators may change and evolve.



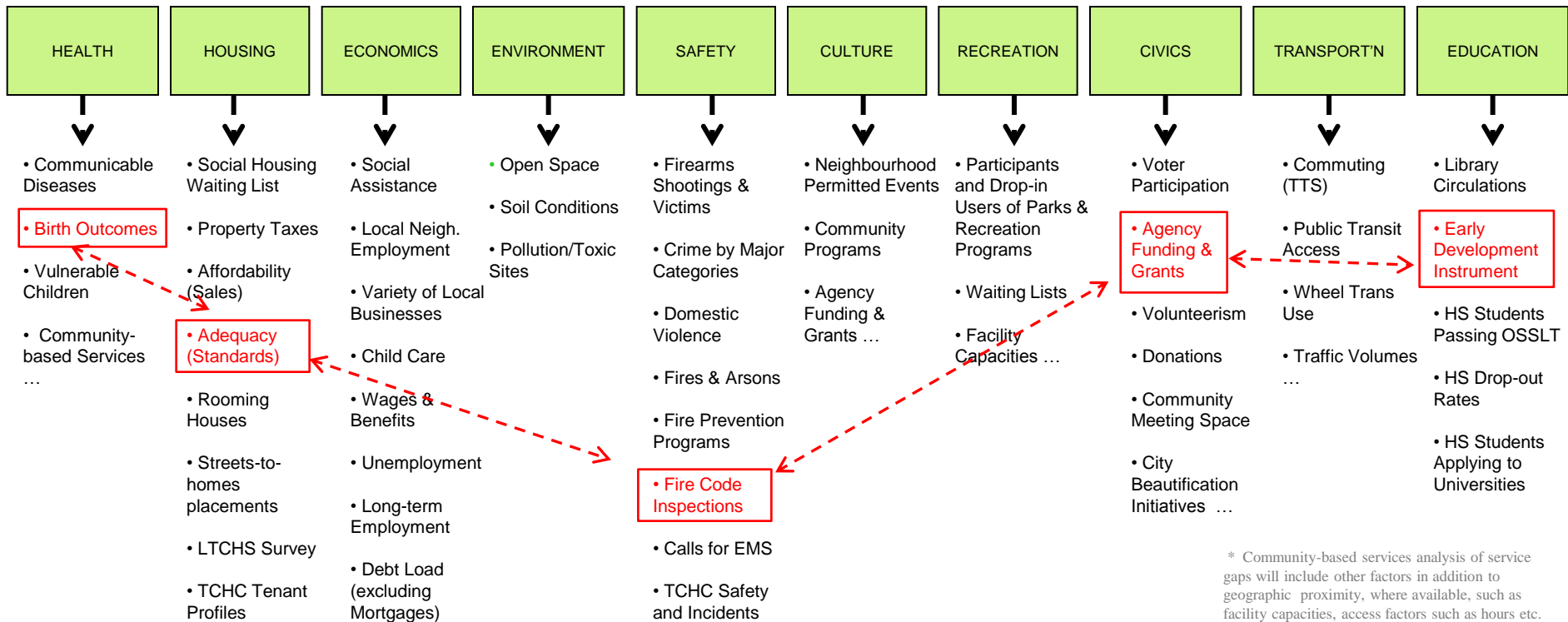
* Community-based services analysis of service gaps will include other factors in addition to geographic proximity, where available, such as facility capacities, access factors such as hours etc.

Socio-demographics: Age, Sex, Income, Ethnicity, Language, Poverty, Immigration, Tenure, etc.

Human Services Infrastructure: Recreation Centres, Police Stations, Parks, Libraries, TESS Offices, Clinics, Schools, etc.

Toronto Neighbourhood Well-being Indices

Step 1. Choose metric indicators

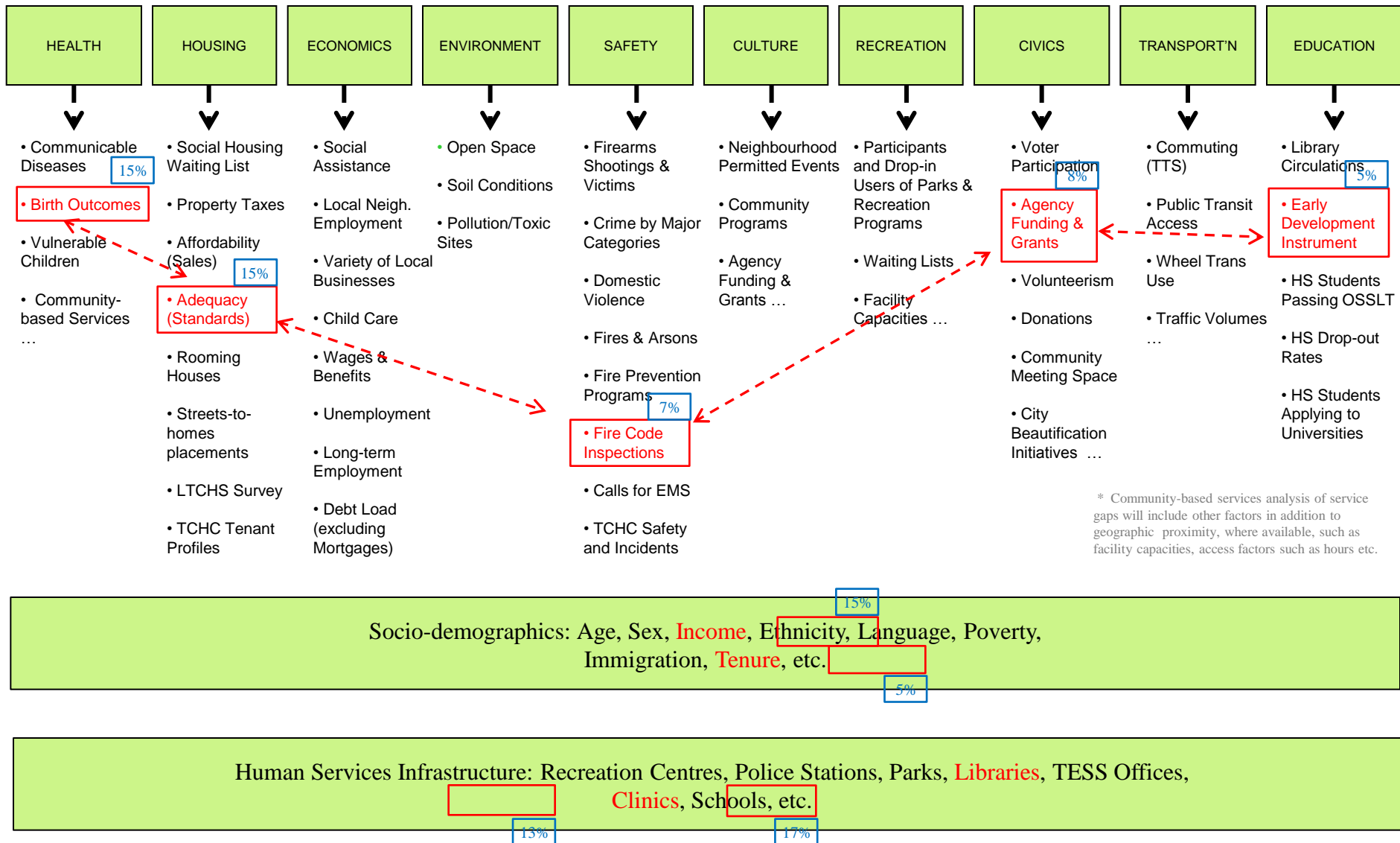


Socio-demographics: Age, Sex, Income, Ethnicity, Language, Poverty, Immigration, Tenure, etc.

Human Services Infrastructure: Recreation Centres, Police Stations, Parks, Libraries, TESS Offices, Clinics, Schools, etc.

Toronto Neighbourhood Well-being Indices

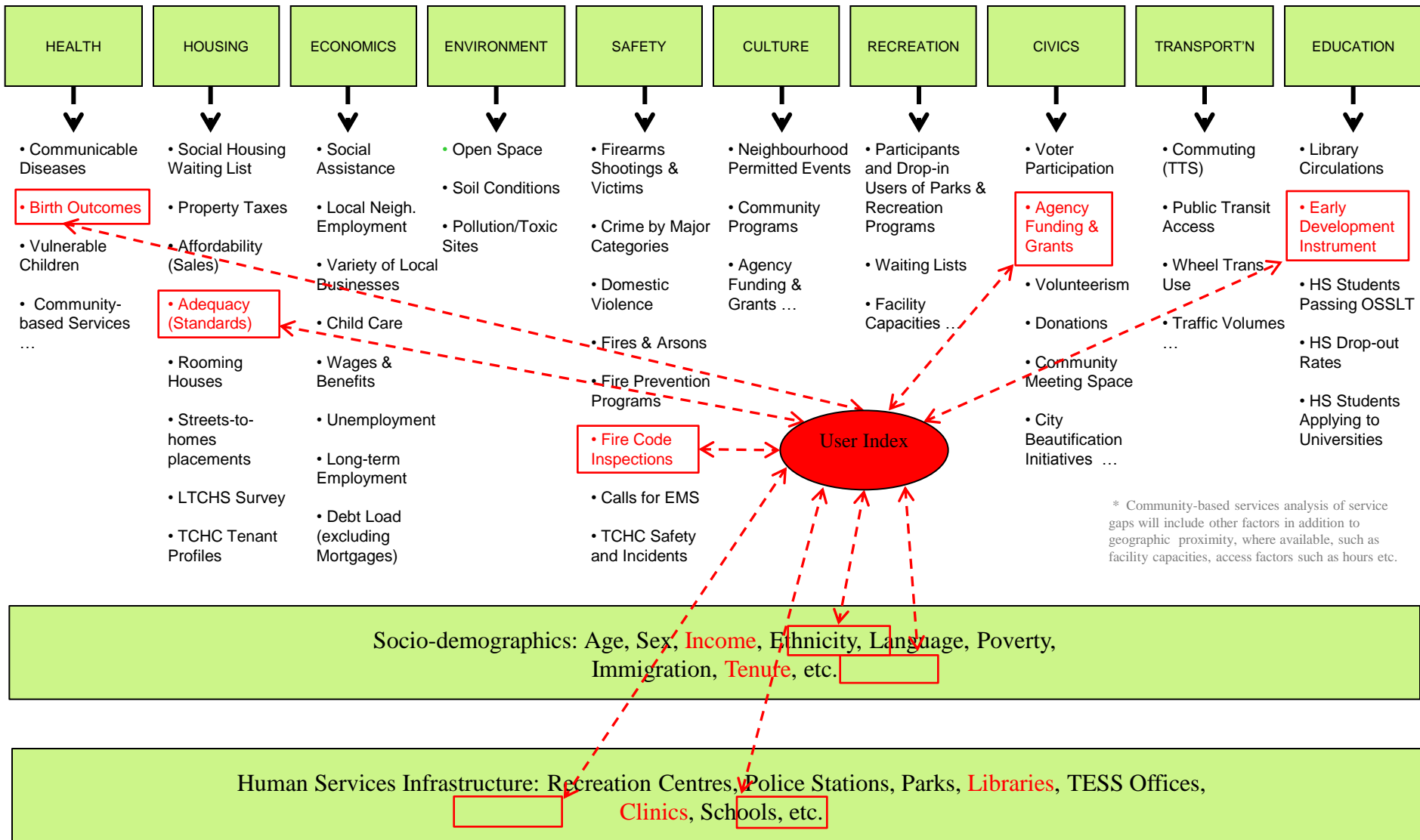
Step 2. Choose socio-demographic and infrastructure indicators.
Step 3. Add weighting



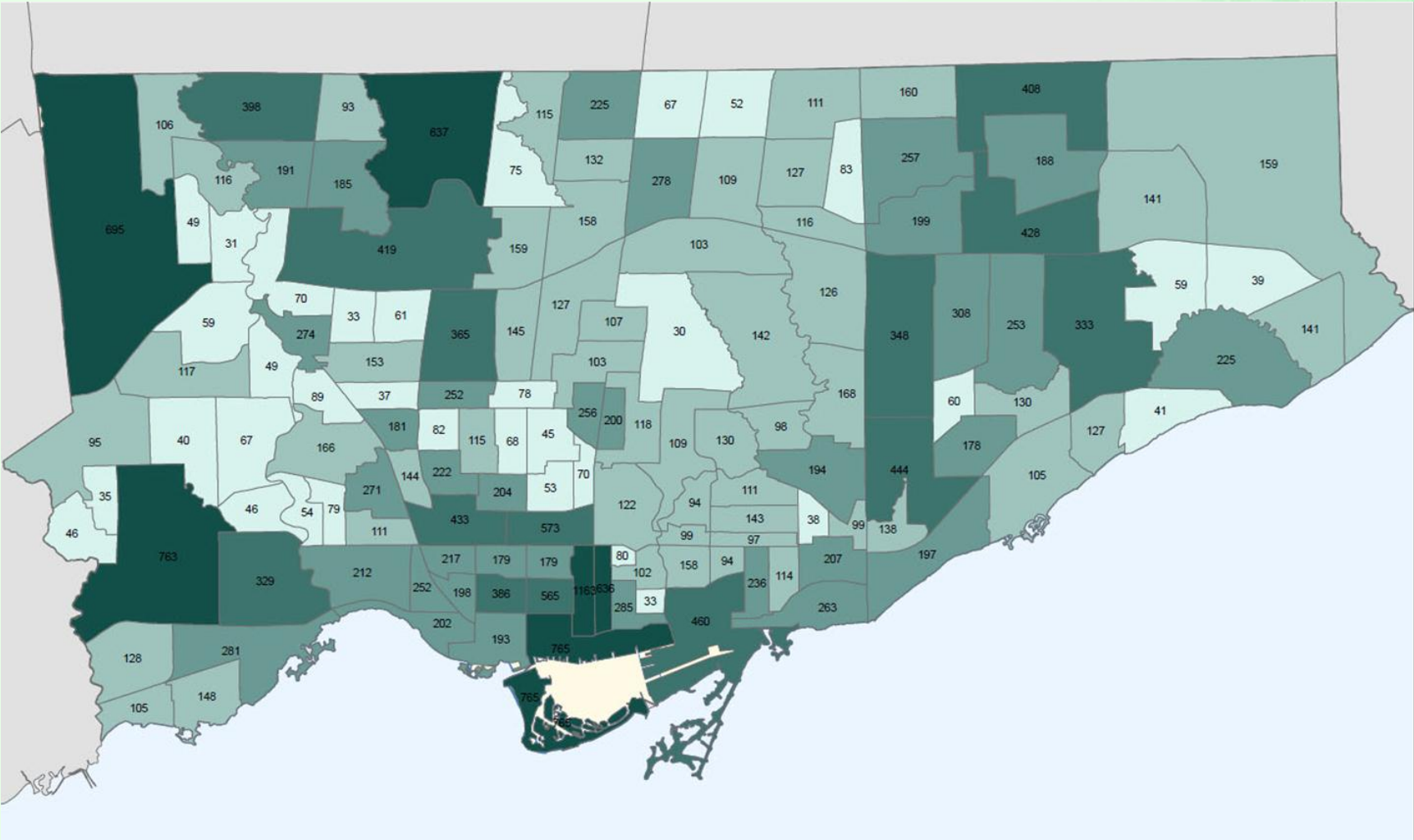
* Community-based services analysis of service gaps will include other factors in addition to geographic proximity, where available, such as facility capacities, access factors such as hours etc.

Toronto Neighbourhood Well-being Indices

Step 4. Create user-defined index.



Map the results!



SUMMARY of MIS-USE & OPTIONS FOR MITIGATION

Like any data resource, there can be misuse:

- ❑ Combining indicators and assuming causation
- ❑ Assuming overall neighbourhood level trends are the same across the entire neighbourhood
- ❑ Assuming that the greater presence of service locations means that “an area is well served”

Mitigation:

- ❑ All indicators will be accompanied by descriptions of the data
- ❑ Detailed guidebook is available including FAQ
- ❑ Govt and non-govt researchers concluded that it is better to present sound data and good notation to user community “openly,” that fosters healthy debate on neighbourhood issues

WellbeingToronto TUTORIAL & GUIDE

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Social Development, Planning & Administration
V1.0



WARNING

Works Best in: Chrome 10+, Firefox 4, Internet Explorer 9
Some Features in: Chrome 9, Firefox 3.5, Internet Explorer 8
Does Not Work in: Internet Explorer 6

By using this application you are agreeing to the Terms of Use available on the City of Toronto website.
http://www.toronto.ca/information/development_and_planning/2011_04_14/warning_page.html
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Demo!



MISC. SCREEN SHOTS (BETA LAUNCH - JUNE 2011) – MAIN SCREEN

City of Toronto Demographics Open Data Progress Portal CIC Statistics Canada

Contact Acknowledgements Help

INDICATORS DISPLAY AREAS

Composite Index
Overlay calculated from the combined weights of selected indicators

Total Population 1

North Riverdale

More Info: [Neighbourhood Details](#) Avg Family Income: \$125,022.00
Area: 2 km² LICO After Tax: 8.0%
Population: 12,425 Lower Education: 40.4%
Children: 1,785 Higher Education: 4.9%
Youth: 1,275 Visible Minority: 25.6%
Seniors: 1,400

[View Full Details](#)

Click here to get started!

Manage Indicators Reset

Local intranet 100%

Done Start Wellbeing Toronto - ... Paint 1:49 PM

MAPPING MANY INDICATORS AT ONCE

City of Toronto Demographics Open Data Progress Portal CIC Statistics Canada

Contact Acknowledgements Help

Toronto

INDICATORS DISPLAY AREAS

Manage Indicators

Click to add/remove from analysis Remove All

Filter Indicator List

DEMOGRAPHICS

- Total Area
- Total Population
- Pop - Males
- Pop - Females
- Pop 0 - 4 years
- Pop 5 - 9 years
- Pop 10 - 14 years
- Pop 15 - 19 years
- Pop 20 - 24 years
- Pop 25 - 29 years
- Pop 30 - 34 years
- Pop 35 - 39 years
- Pop 40 - 44 years
- Pop 45 - 49 years
- Pop 50 - 54 years
- Pop 55 - 59 years
- Pop 60 - 64 years
- Pop 65 - 69 years
- Pop 70 - 74 years
- Pop 75 - 79 years
- Pop 80 - 84 years

Collapse Domains CLOSE + Manage Indicators Reset

Composite Index

Overlay calculated from the combined weights of selected indicators

- Chinese 1
- Seniors Living Alone 4

The map displays the City of Toronto and its surrounding areas, including Vaughan, Bendale, Toronto Harbour, and Toronto Islands. The map is overlaid with a grid of colored areas representing various demographic indicators. The colors range from light yellow to dark brown, indicating different levels of indicator values. Major roads and highways are visible, including Highway 7, Highway 401, and Highway 404. The map is viewed from a top-down perspective, with a compass rose in the top-left corner and a scale bar in the bottom-left corner.


Done

Start Wellbeing Toronto - ... FINAL SCREENSHOTS

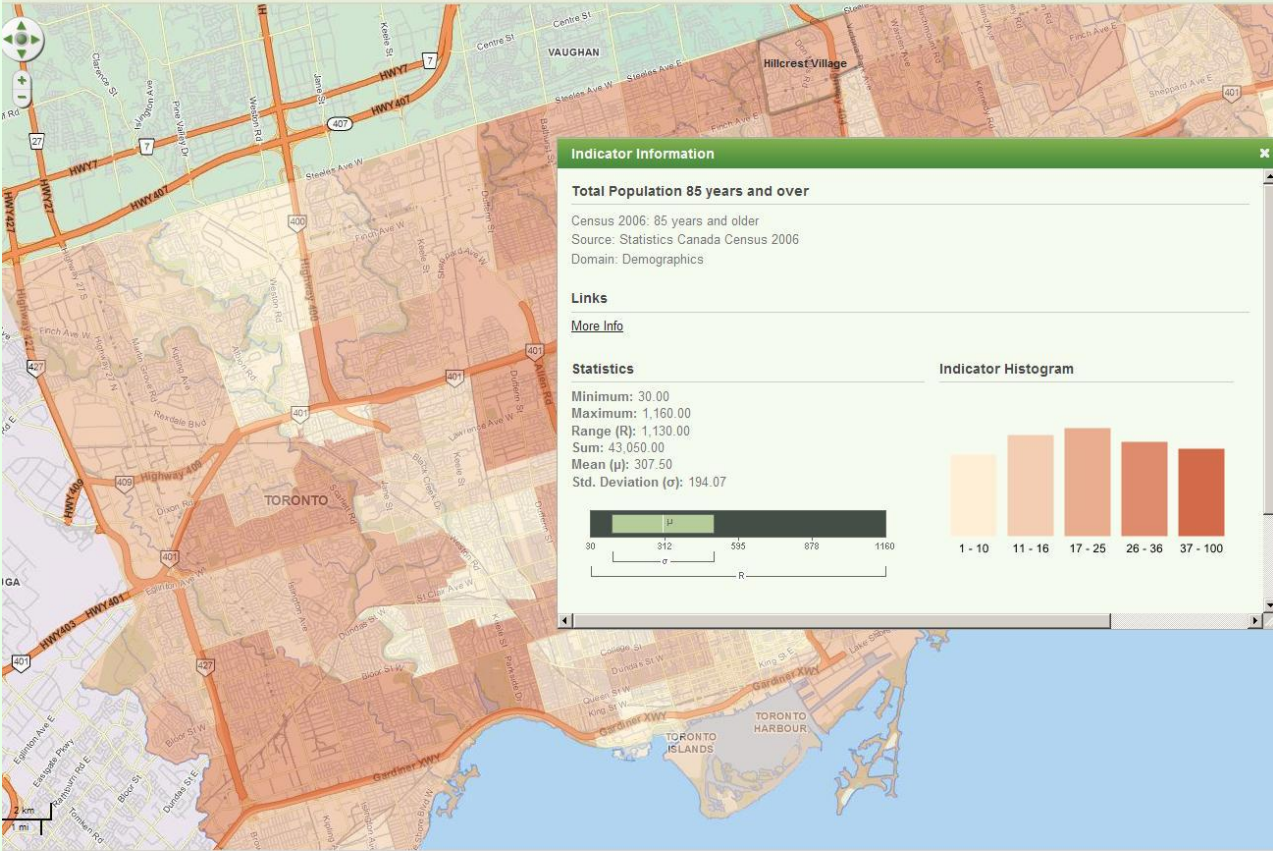
Local intranet 100% EN << 1:58 PM

DETAILED STATISTICS

City of Toronto Demographics Open Data Progress Portal CIC Statistics Canada Contact Acknowledgements Help



SEARCH GRAPH TABLE EXPORT



Indicator Information

Total Population 85 years and over

Census 2006: 85 years and older
 Source: Statistics Canada Census 2006
 Domain: Demographics

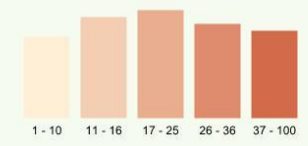
Links

[More info](#)

Statistics

Minimum: 30.00
 Maximum: 1,160.00
 Range (R): 1,130.00
 Sum: 43,050.00
 Mean (μ): 307.50
 Std. Deviation (σ): 194.07

Indicator Histogram



Manage Indicators

Click to add/remove from analysis Remove All

Filter Indicator List

DEMOGRAPHICS

- Pop 75 - 79 years ?
- Pop 80 - 84 years ?
- Pop 85 years and over ?
- Visible Minority Category ?
- Chinese ?
- South Asian ?
- Black ?
- Filipino ?
- Latin American ?
- Southeast Asian ?
- Arab ?
- West Asian ?
- Korean ?
- Japanese ?
- Other Visible Minority ?
- Multiple Visible Minority ?
- Not a Visible Minority ?
- Aboriginal ?
- Home Language Category ?
- Language - Chinese ?

+ Collapse Domains CLOSE + Manage Indicators Reset

Composite Index

Overlay calculated from the combined weights of selected indicators

Pop 85 years and over ?

1 2 3 4 5

Done

Start Wellbeing Toronto ... FINAL SCREENSHOTS Local intranet 100% 2:00 PM

COMBINING STATISTICS

The interface displays a map of Willowdale West on the left, with a grid of streets and major roads like Highway 401 and Highway 404. A brown shaded area on the map is labeled 'Willowdale West'. The 'Manage Indicators' panel in the center lists various categories and indicators:

- DEMOGRAPHICS**
- CIVICS**
 - Voter Turnout
 - City Beautification
 - City Grants Funding \$
 - Diversity Index
- ECONOMICS**
- EDUCATION**
 - Early Development Instrument
 - Library Attendance
 - Library Open Hours
 - Library Activity
 - Library Space
 - High School Literacy
 - High School Graduation
 - University Applicants
 - Catholic School Literacy
 - Catholic School Graduation
 - Catholic University Applicants
 - Library Programs

The 'Composite Index' panel on the right shows a list of indicators with sliders and a '1' value for each:

- Total Population** (Slider: 0-5, Value: 1)
- Traffic Collisions** (Slider: 0-5, Value: 1)
- PFR Community Space** (Slider: 0-5, Value: 1)
- Thefts** (Slider: 0-5, Value: 1)
- Diversity Index** (Slider: 0-5, Value: 1)
- South Asian** (Slider: 0-5, Value: 1)
- Recent Immigrants** (Slider: 0-5, Value: 1)
- Low Income Families** (Slider: 0-5, Value: 1)
- Library Activity** (Slider: 0-5, Value: 1)

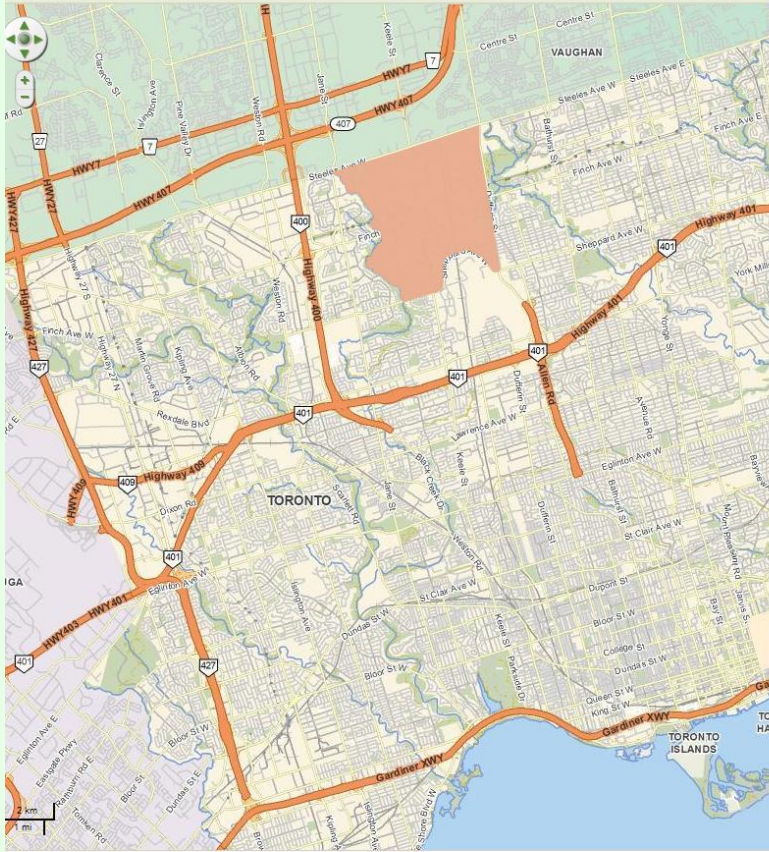
GRAPHING CAPABILITIES



INDICATORS

DISPLAY

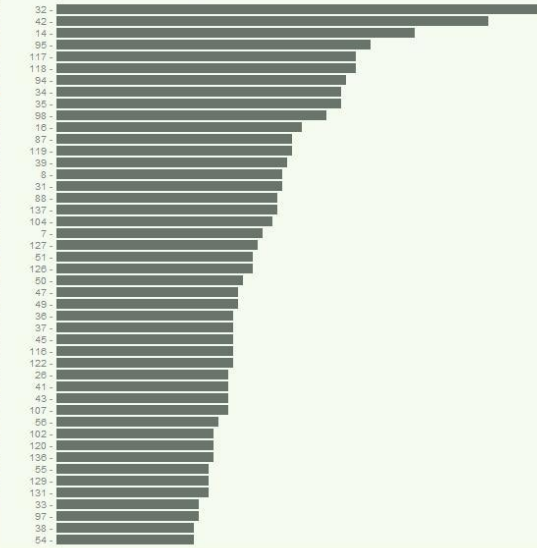
AREAS



Neighbourhood Chart

Pop 85 years and over

All neighbourhoods are listed by their number, showing the value of the current indicator or composite. Hover your mouse over a bar to see the neighbourhood name and the weighted value.



Composite Index
Overlay calculated from the combined weights of selected indicators

Pop 85 years and over

1 0 1 2 3 4 5

Manage Indicators Reset

TABLES



GRAPH TABLE EXPORT

INDICATORS DISPLAY AREAS

Indicator Values By Neighbourhood

Export To Excel Export To CSV

Neighbourhood	Composite Index	Pop 85 years and over	Pop 80 - 84 years	Pop 75 - 79 years	Pop 70 - 74 years	Pop 65 - 69 years
West Humber-Clairville	41	305	465	715	1,015	1,150
Mount Olive-Silverstone-Jamestown	27	145	270	500	775	910
Thistletown-Beaumont Heights	17	190	255	385	425	400
Rexdale-Kipling	22	285	345	435	460	435
Elms-Old Rexdale	8	55	150	205	275	310
Kingsview Village-The Westway	39	290	555	785	875	850
Willowdale-Martingrove-Richview	56	500	865	1,075	1,160	1,015
Humber Heights-Westmount	37	545	710	620	585	505
Edenbridge-Humber Valley	29	320	415	550	635	635
Princess-Rosethorn	22	235	420	460	445	420
Eringate-Centennial-West Deane	40	250	555	825	960	915
Markland Wood	30	330	510	605	635	550
Etobicoke West Mall	21	305	370	440	410	400
Islington-City Centre West	77	855	1,225	1,390	1,270	1,270
Kingsway South	16	240	280	330	340	365
Stonegate-Queensway	51	595	895	835	880	920
Mimico	38	290	480	730	795	1,050
New Toronto	14	200	225	270	345	390

Composite Index
Overlay calculated from the combined weights of selected indicators

Pop 85 years and over
1 0 1 2 3 4 5

Pop 80 - 84 years
1 0 1 2 3 4 5

Pop 75 - 79 years
1 0 1 2 3 4 5

Pop 70 - 74 years
1 0 1 2 3 4 5

Pop 65 - 69 years
1 0 1 2 3 4 5

Manage Indicators Reset

SERVICE LOCATIONS



[INDICATORS](#)
[DISPLAY](#)
[AREAS](#)



Oakwood-Vaughan

More Info: [Neighbourhood Details](#)

Area: 2 km ²	Avg Family Income: \$68,739.00
Population: 21,435	LICO After Tax: 13.5%
Children: 3,355	Lower Education: 39.4%
Youth: 2,515	Higher Education: 6.2%
Seniors: 3,275	Visible Minority: 40.7%

[View Full Details](#)

Composite Index

Off On

Measure: Colour:

Quantile: Red

1 - 14 15 - 22 23 - 30 31 - 47 48 - 100

Additional Layers

Filter Layer List

- HEALTH**
- Arenas
 - Community Centres
 - Community Gardens
 - Convenience Stores
 - Day Care Centres
 - Family Resource Centres
 - Hospitals
 - Public Health
 - Supermarkets
- CIVICS**
- City Wards
 - Faith Organizations
 - Find Help 211
 - Penal Institutions
 - Places of Worship
 - Base Map
- Streets

COMPARING NEIGHBOURHOOD DATA

City of Toronto Demographics Open Data Progress Portal CIC Statistics Canada

Contact Acknowledgements Help

TORONTO

INDICATORS DISPLAY AREAS

Current Indicator
Composite Index

Selected Neighbourhoods
Click a neighbourhood to compare areas

- Bendale
- Moss Park
- East End-Danforth
- York University Heights

Remove All

The map displays the city of Toronto with several neighborhoods highlighted in orange. These neighborhoods are Bendale, Moss Park, East End-Danforth, and York University Heights. The map includes major roads like Highway 401, Highway 404, and Highway 403, as well as the city's coastline and major parks.

Done

Start Wellbeing Toronto - ... FINAL SCREENSHOTS

Local intranet 100%

EN 2:02 PM

PRINTING YOUR RESULTS

Childcare - Downtown



Composite Index

01 - 20
21 - 40
41 - 60
61 - 80
81 - 100

1 = Worse
100 = Better

This map was produced by the Wellbeing Toronto application. The content of the map and following charts (if any) are not endorsed by or affiliated with the City of Toronto in any way. Please consult the full Terms of Use for more details.

WellbeingToronto

Source: Wellbeing Toronto
Contact: spar@toronto.ca
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WELLBEING TORONTO by the NUMBERS

- ✓ **1st** ...
 - the "first time" the City has created a strategic tool for a comprehensive cross-sectoral "systems" perspective on human services planning for place-based planning
 - the "first time" Statistics Canada has provided the City with "open use" (free public access and download) of core Census Data
 - the "first time" the City has created new I&T mapping approach to establish a new mapping standard corporately
 - the "first time" the City has adopted both an *Open Data* and *Open Analysis* concept towards information for the public
- ✓ **26,040** ... currently the number of *individual data elements* in WELLBEING TORONTO (186 indicators x 140 neighbourhoods)
- ✓ **39** ... the number of internal and external organizations on our Steering Committee
- ✓ **108,000** ... the number of web visits to WELLBEING TORONTO in 5 months since launch, relative to...
- ✓ **110,000** ... the average number of annual web visits in the past to our existing web resources
- ✓ **\$250,000** ... the total cost of the project to date (excluding staff time)

WHAT THE PUBLIC AND MEDIA ARE SAYING ...



Wellbeing Toronto website takes step in opening more data to local taxpayers



By Marc Weisblott | Daily Brew - Thu, 30 Jun, 2011

Email Print

Cities across Canada have grappled with efforts to move data from the file cabinets of city hall to the computers of the people.

A new municipal venture called Wellbeing Toronto has marked a new step in that direction, since it will allow users to research statistics about 140 different neighbourhoods, and compare how they stack up.

Information collected by Statistics Canada, local school boards and the city itself was compiled to give residents a sense of how their streets compare to other parts of Toronto. The access could certainly transform how politicians decide to spend their money.

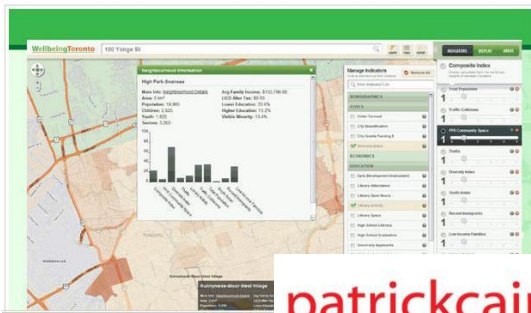


Home News GTA Opinion Business Sports Entertainment Life Travel Columns Blogs More Autos Careers Classifieds Deaths Rentals



How does your neighbourhood rank? New site lets you compare

Article Comments (29) Published On Thu Jun 30 2011 Email Print (29) Facebook Twitter LinkedIn



Mapping Toronto's Wellbeing

BY STEPHEN MICHALOWICZ
 20110708wellbeing1.jpg

Last week, the City of Toronto launched the beta version of Wellbeing Toronto, a brand new website that lets users map and compare social, civic, and economic indicators, and rank the results by neighbourhood. Yes, that's right, at long last Torontonians have access to a tool that can answer the questions that have plagued the city for centuries. Questions such as: which Toronto neighbourhood has the most (non-subway) TTC stops? (Answer: West Humber-Clairville, with 326 stops.) Or which area has the most sports facilities? (Answer: L'Amoreaux, with 78.) And most importantly, is there a relationship between the two? (Answer: yes actually, most of the city's gyms, fields, and rinks are in the suburbs, where there also tends to be more bus stops.) To give the application a workout, we went through all of the available data sets and compiled a list (below the fold) of what we think are some of the more interesting comparisons and insights.



SEARCH TORONTOIST ABOUT CONTACT US LOCAL RESOURCES ADVERTISING ARCHIVES

Plotting your move: Wellbeing Toronto launches

OUR ARCHIVES

TTC SERVICE ALER

ALL CLEAR: The delay at Lawrence West Station cleared and full service has resumed on the Y University - Spadina Line. #TTC | 2:07 PM No Trains are currently bypassing Lawrence West bothways due to a Toronto Police Services Inv #TTC | 2:02 PM Nov 21

ALL CLEAR: The signal problem is now clear as service has resumed south bound between Finch

OUR PAGES

- Tix the season to Glean: Holiday Whiskit and Conveys
- Grading Our GreenSpace: Annex 2011
- An open letter to historical Restorers and PR reps ...

OUR RECENT POSTS

- 'Tix the season to Glean: Holiday Whiskit and Conveys'
- Toronto proposes new 'Streets ByLaw'
- BioCau moves in: Company, community still massive project
- Local writer brings Macho Man-themed show to Kensington Market
- 8th Rendezvous with Malloos film festival may be most provocative yet
- Lee Harvey Oswald's lover



This was also published at [globalnews.ca](#)

The City of Toronto's long-awaited Wellbeing Toronto map site launched today (in beta), giving users the ability to map 140 officially-defined neighbourhoods by dozens of different data points, from arson to breast cancer screening to sports facilities. It's a much more user-friendly approach to open data than we've seen in Toronto (and elsewhere) up till now.

Many of the grimmer social indicators take a familiar checkmark shape across the face of the city. Premature mortality, for example, works southeast from Rexdale down Black Creek Drive into the west end, through patchy parts of downtown and then northeast into Scarborough. It's the shape of Bad Things in Toronto - it's repeated on maps I've created with high school dropouts, STIs, homicides with male victims and on and on.

In any case, this is an outstanding resource, which brings together a number of resources that were always public in a one-stop-shop format. The issues below are teases:

- Some work still needs to be done on user-friendliness. Library use is measured on a 1-8 scale, which I "think" represents average annual contacts with the library system per year, but that isn't clearly explained
- Actually, I'm not totally clear whether it's up to me to divide any given number by population or whether that's already done for me.
- The export-to-spreadsheet function isn't working properly - it exports data other than the data in the preview.

I am a Toronto-based journalist with experience creating and researching interactive maps, reporting and editing. I am a senior Web coordinator at [globalnews.ca](#).

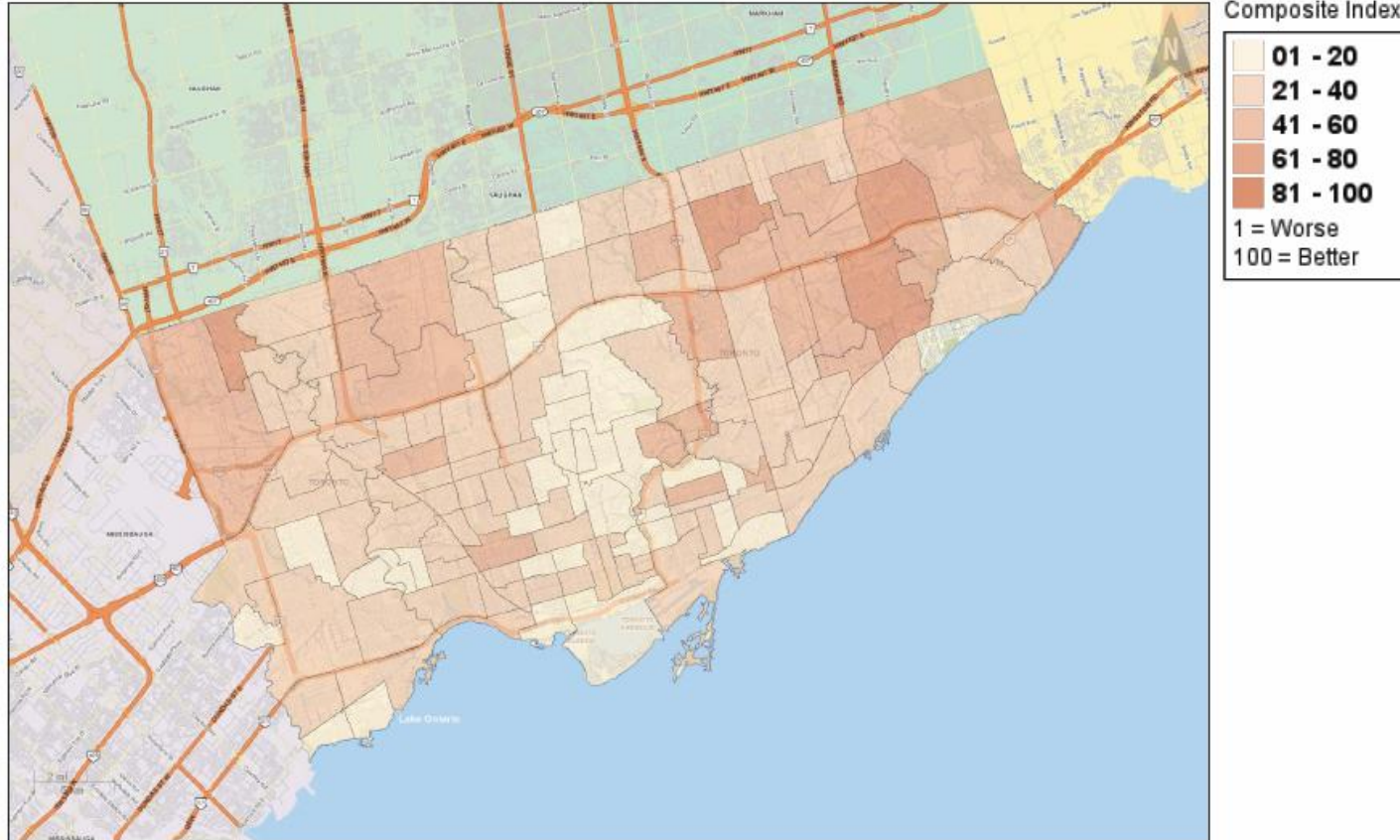
For much of 2010, I was a contributing editor at [openfile.ca](#). I was a Web editor at [thestar.com](#), the Toronto Star's Web site, from 2001 to mid-2010.

As well as being a generalist online editor, I created online interactive maps, on as wide a range of topics as possible. The subjects ranged from the serious, like reports of sexually transmitted disease or postal codes of drunk driving suspects, to maps that are just interesting, like dog licences or the range of urban bees.

Plus Blogs Blogs and Blogs...

Example of City Use (Public Health)

Children 0-4, Low Income, Recent Immigrants and Diabetes



This map was produced by the Wellbeing Toronto application. The content of the map and following charts (if any) are not endorsed by or affiliated with the City of Toronto in any way. Please consult the full Terms of Use for more details.

WellbeingToronto

Source: Wellbeing Toronto
Contact: spar@toronto.ca
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Example of Private Sector Use

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Data Map of Road Collision in the City of Toronto, Using Sphere Model Fiery Texture (data source: Wellbeing Toronto)

▼ Road Collision Toronto

[Live Demo](#)

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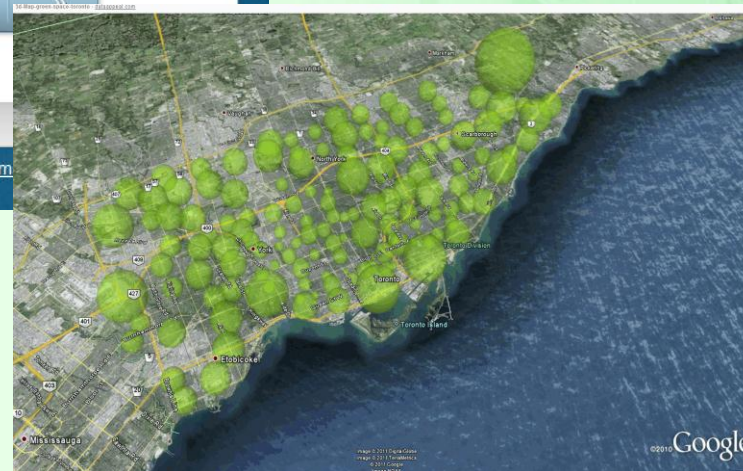
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NEXT STEPS



WHERE WE ARE NOW..

- Enhancements...
- Community feedback & training
- Working on further collaborations
- **MORE INDICATORS!**

Intermediate Outcomes:

- Fact-based tool available to support planning and decision making
- Better-informed decision making by funders, policy makers, and the community
- Improved transparency in planning, analysis and decision making
- Improved coordination among funders, and policy-makers

Long-Term Outcomes:

- Enhanced understanding of the functioning of neighbourhoods and their service systems
- Improved ability to identify common outcomes that cross sectors and organizations

NEW FRONTIERS TO CONQUER

BILATERAL OPENNESS: Govts are getting better at *OUTBOUND* data (eg., releasing data), but are not yet equipped to deal with *INCOMING* data(e.g., value-added data that communities want to share with govt).

COMMON DEFINITIONS: What is considered OD?

STANDARDIZED LICENSING: What is considered open use?

CULTURE SHIFT (OPEN GOVT): Realization that *DATA* is not what makes one unique but rather the *KNOWLEDGE* applied to its use!

ENHANCED INTERNAL STRUCTURES AND PROCESSES: Commitment to create government systems that understand and integrate with OD principles vs. internal resources

ACCESSIBILITY: The challenges with disabilities, generational challenges, and those with other languages...

OPEN ANALYSIS: OD should be more than just a site for raw data! It should be about connecting and sharing knowledge as well.

RESOURCES: Not all data is from Govt. Finding creative ways to release free data while recognizing existing funding mechanisms, SLA's, MOU's, as well as the resources required to collect and maintain such data!

THE NEW CURRENCY: Creative collaboratives to share data instead of money, but how do we do that under current funding and fiscal resourcing?

Other Statistical Resources at the City of Toronto

- ✓ **Social Atlas**
<http://www.toronto.ca/demographics/atlas.htm>
- ✓ **Neighbourhood Profiles**
<http://www.toronto.ca/demographics/neighbourhoods.htm>
- ✓ **Ward Profiles**
<http://app.toronto.ca/wards/jsp/wards.jsp>
- ✓ **Labour Force Data**
http://www.toronto.ca/invest-in-toronto/labour_force.htm
http://www.toronto.ca/economic_profile/labour_force.htm
- ✓ **Employment Data**
<http://www.toronto.ca/demographics/surveys.htm>

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**Wellbeing Toronto is located on
the City's website at:
www.toronto.ca/wellbeing**



THE COMPOSITE INDEX EXPLAINED...

How the Composite (user) Index is built:

Raw hood aggregates → 0-100 scale → 1-100 scale → weighted composite index

- 0-100 scaled value = $a = 100 * ((\text{raw value} - \text{minimum}) / \text{range})$
- 1-100 scaled value = $b = a + ((100 - a) / 100)$
- Composite Index (inside app) = $(v1 * w1) + (v2 * w2) / (w1 + w2)$

Weighting options in the app are 0-5 (0=off, 1=lowest, 5=highest)