



All About CANUE – September 12 | 2017



Join us for a quick CANUE tour! Find out how CANUE works, what we do, how we can help you advance environmental health research in Canada and abroad, and move evidence into policy and practice.

PRESENTED BY:



Jeff Brook
Scientific Director



Eleanor Setton
Managing Director



Evan Seed
Geospatial Data Lead



Dany Doiron
Data Linkage Specialist



Mahdi Shooshtari
Data Scientist/Developer

MEETING START: 9:00AM PACIFIC | 12:00 noon EASTERN

FOR AUDIO – PLEASE CALL:
1-877-558-8690



All About CANUE – September 12 | 2017



chat...



info@canue.ca



All About CANUE – September 12 | 2017





All About CANUE – September 12 | 2017

Population (as count and as share of total population) and growth rate of metropolitan and non-metropolitan Canada, 2006 and 2011

Statistical Area Classification	2006		2011		Growth rate	
					2001 to 2006	2006 to 2011
	Population	%	Population	%	%	
Canada	31,612,897	100.0	33,476,688	100.0	5.4	5.9
Census metropolitan areas (CMAs)	21,534,063	68.1	23,123,441	69.1	6.9	7.4
Census agglomerations (CAs)	4,136,342	13.1	4,311,524	12.9	4.0	4.2
Outside of CMAs and CAs	5,942,492	18.8	6,041,723	18.0	1.0	1.7
Close to CMAs or CAs ¹	1,521,507	4.8	1,586,681	4.7	4.7	4.3
Remote from CMAs and CAs ²	4,361,273	13.8	4,393,039	13.1	-0.1	0.7
Territories ³	59,712	0.2	62,003	0.2	8.9	3.8

>80% of
Canadians live
in urban areas

35% live in:
Toronto
Montreal
Vancouver

Notes:

1. Refers to census subdivisions (CSD) outside CMAs and CAs classified as strong metropolitan influenced zone (strong MIZ). See <http://www12.statcan.gc.ca/census-recensement/2011/ref/dict/geo010-eng.cfm>.
 2. Refers to census subdivisions (CSD) outside CMAs and CAs classified as either moderate, weak or no metropolitan influenced zone (moderate MIZ, weak MIZ or no MIZ). See <http://www12.statcan.gc.ca/census-recensement/2011/ref/dict/geo010-eng.cfm>.
 3. Excludes CAs of Yellowknife and Whitehorse.
- Sources: Statistics Canada, censuses of population, 2001, 2006 and 2011.

<http://www12.statcan.gc.ca/census-recensement/2011/as-sa/98-310-x/98-310-x2011001-eng.pdf>



ABSTRACT

Objective: Determine the risk of premature mortality due to the urban ambient air pollution mix in Canada.

Methods: The number of daily deaths for non-accidental causes were obtained in 11 cities from 1980 to 1991 and linked to concentrations of ambient gaseous air pollutants

The Effect of the Urban Ambient Air Pollution Mix on Daily Mortality Rates in 11 Canadian Cities

1997

Richard T. Burnett, PhD,¹ Sabit Cakmak, PhD,¹ Jeffrey R. Brook, PhD²

152 REVUE CANADIENNE DE SANTÉ PUBLIQUE

VOLUME 89, NO. 3



Environ Health Perspect. 2003 Nov; 111(14): 1773–1778.
Research Article

PMCID: PM

Association between gaseous ambient air pollutants and adverse pregnancy outcomes in Vancouver, Canada.

[Shiliang Liu](#), [Daniel Krewski](#), [Yuanli Shi](#), [Yue Chen](#), and [Richard T Burnett](#)



All About CANUE – September 12 | 2017

ARTICLE

Year : 2012 | Volume : 14 | Issue : 61 | Page : 287-291

Noise and cardiovascular disease: A review of the literature 2008-2011

Hugh Davies¹, Irene Van Kamp²

¹ University of British Columbia, Faculty of Medicine, School

² National Institute for Public Health and the Environment (RIVM)

Noise & Health

A Bimonthly Inter-disciplinary International Journal



Environmental Research

Volume 115, May 2012, Pages 51–58



A cohort study relating urban green space with mortality in Ontario, Canada ☆

Paul J. Villeneuve^{a, b, c}, Michael Jerrett^c, Jason G. Su^c, Richard T. Burnett^a, Hong Chen^d, Amanda J. Wheeler^a, Mark S. Goldberg^f

Body Mass Index in Urban Canada: Neighborhood and Metropolitan Area Effects

Nancy A. Ross, PhD, Stephane Tremblay, MSc, Saeeda Khan, MA, Daniel Crouse, MES, Mark Tremblay, PhD, Jean-Marie Berthelot, BSc

500 | Research and Practice | Peer Reviewed | Ross et al.

American Journal of Public Health | March 2007, Vol 97, No. 3



1991 CanCHEC

The current version of the 1991 Canadian Census Health and Environment Cohort (CanCHEC) was derived on linkage-based data by compiling socio-economic, demographic, cancer, mortality, and place of residence data (reported on T1) for 2.5 million Canadians over an eventual 20-year follow-up period.

The 1991 Canadian Census Health and Environment Cohort contains variables measuring population characteristics, place of residence, cancer incidence, and mortality. These variables were obtained from six different data sources:

- 1991 Canadian Census
- 1984-2011 Health Data
- 1981-1983 T1
- 1969-1991 Census
- 1992-2010 Census
- 1991-2011 Census

CanCHEC (Canadian Census Health and Environment Cohort)

Description

2001 CanCHEC

The 2001 Canadian Census Health and Environment Cohort (CanCHEC) is a large population-based dataset that allows for the examination of mortality and health status by census characteristics (i.e. ethnocultural and socioeconomic factors).

The 2001 CanCHEC was created from three different data sources:

- 2001 Census of Population
- T1 Universe Files (place of residence only)
- Canadian Mortality Database



All About CANUE – September 12 | 2017



300,000 Canadian residents

35-69 years of age

\$150M+



CANADIAN PARTNERSHIP
AGAINST CANCER

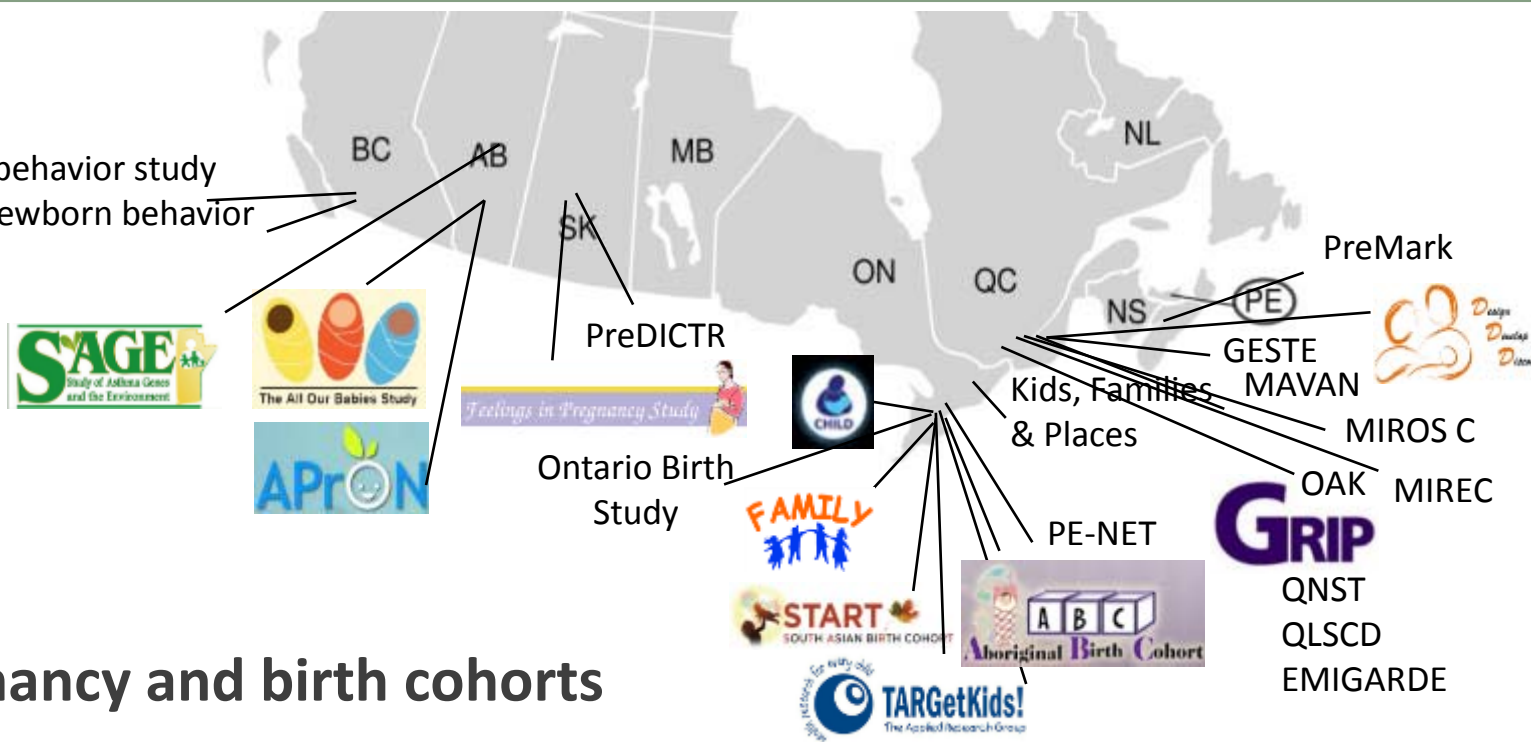


PARTENARIAT CANADIEN
CONTRE LE CANCER



All About CANUE – September 12 | 2017

Early child behavior study
Fetal and newborn behavior study



26 pregnancy and birth cohorts

53,300 mother-child dyads 17,800 fathers

Totaling 125,000 participants



ReACH

Research Advancement through
Cohort Cataloguing and Harmonization



All About CANUE – September 12 | 2017

Provincial Health Databases



ICES Data

The ICES Data Repository consists of record-level, coded and linkable health data that encompasses much of the publicly funded administrative health services records for the population eligible for universal health coverage since 1986 and is capable of providing research-specific data, registries and surveys. Currently, the repository includes records for as many as 13 million people.



UNIVERSITY OF MANITOBA
MAX RADY COLLEGE OF MEDICINE
MANITOBA CENTRE FOR HEALTH POLICY
Rady Faculty of Health Sciences

Make a Gift | U of M Home | A-Z Index | Maps | JUMP | U of M Learn | Webmail

Search

U of M Website | People | Research Experts

NEW REPORT

DOWNLOAD HERE

Factors Affecting Emergency Department Waiting Room Times in Winnipeg

Data Repository
Overview
Data List
Applying for Access
Accreditation
Concept Dictionary & Glossary

Research
Published MCHP Reports (Deliverables)
Upcoming MCHP Reports
Ongoing MCHP Reports
Journal Publications
Presentations

Knowledge Translation
The Need to Know Team
RACHS Equity for Children
Workshops & Events
Education Resources
S&S Training

MCHP Quick Facts
Faculty & Staff
Media Releases
Contact
Privacy & Confidentiality

Population Data BC

Population Data BC (PopData) is a multi-university, data and education resource facilitating interdisciplinary research on the determinants of human health, well-being and development.

We offer researchers access to one of the world's largest collections of health care, health services and population health data, and a comprehensive education and training service on how to best use those data.



All About CANUE – September 12 | 2017



Environment and Planning A 2001, volume 33, pages 955–973

DOI:10.1068/a33137

A GIS–environmental justice analysis of particulate air pollution in Hamilton, Canada

Michael Jerrett

School of Geography and Geology, and McMaster Institute of Environment and Health, McMaster University, 1280 Main Street, West Hamilton, Ontario, Canada L8S 4K1; e-mail: jerrettm@mcmaster.ca

Richard T Burnett

Health Canada, 200 Environmental Health Centre, Health Canada, Tunney's Pasture, Ottawa, Canada K1A 0L2; e-mail: rick_burnett@hc-sc.gc.ca

Pavlos Kanaroglou, John Eyle

School of Geography and Geology, McMaster University, 1280 Main Street, West Hamilton, Ontario, Canada L8S 4K1; e-mail: pavlos@mcmaster.ca, eyle@mcmaster.ca

Jeffrey R Brook

Air Quality Processes Research Division, Health Canada, Toronto, Ontario, Canada M3H 5T6; Received 11 September 2000; in final form 12 October 2000

Abstract. The authors address two issues: (1) the status of environmental justice in Hamilton, Canada, compared with people of other cities, and (2) the levels of particulate air pollution in Hamilton, Canada.

International Journal of Health Geographics

Research

Mapping the evolution of 'food deserts' in a Canadian city: Supermarket accessibility in London, Ontario, 1961–2005

Kristian Larsen and Jason Gilliland*

Address: The University of Western Ontario, London, ON, N6A 5C2, Canada

Email: Kristian Larsen - klarsen2@uwo.ca; Jason Gilliland* - jgillila@uwo.ca

* Corresponding author

Published: 18 April 2008

International Journal of Health Geographics 2008, **7**:16 doi:10.1186/1476-072X-7-16

This article is available from: <http://www.ij-healthgeographics.com/content/7/1/16>

Received: 6 December 2007

Accepted: 18 April 2008

RESEARCH

Open Access

Risk-based indicators of Canadians' exposures to environmental carcinogens

Eleanor Setton^{1*}, Perry Hystad², Karla Poplawski¹, Roslyn Cheasley¹, Alejandro Cervantes-Larios³, C Peter Keller¹ and Paul A Demers⁴



All About CANUE – September 12 | 2017



**MEASURING
ENVIRONMENTAL
EXPOSURES
WORKSHOP**

2011

**ENVIRONMENT,
GENES AND
CHRONIC DISEASE
NATIONAL
WORKSHOP**

2012

**ENVIRONMENTS
AND HEALTH
NATIONAL
FORUM**

2013

- Break down some of the existing silos of research in the environment and health field.
- Tackle the real-world complexity of interacting and ubiquitous environmental influences.
- Build research capacity and supporting data platforms.



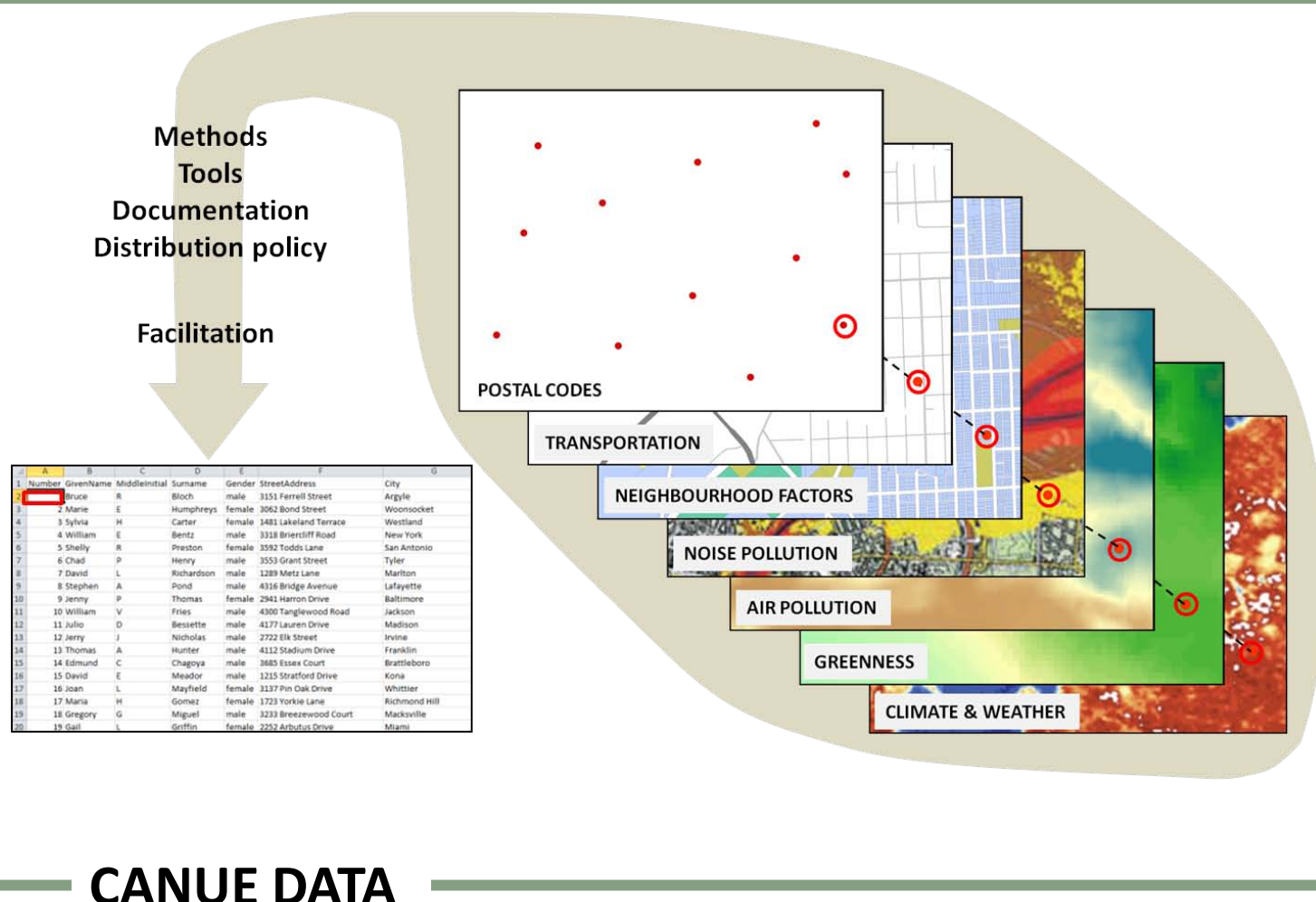
All About CANUE – September 12 | 2017



www.canue.ca



All About CANUE – September 12 | 2017

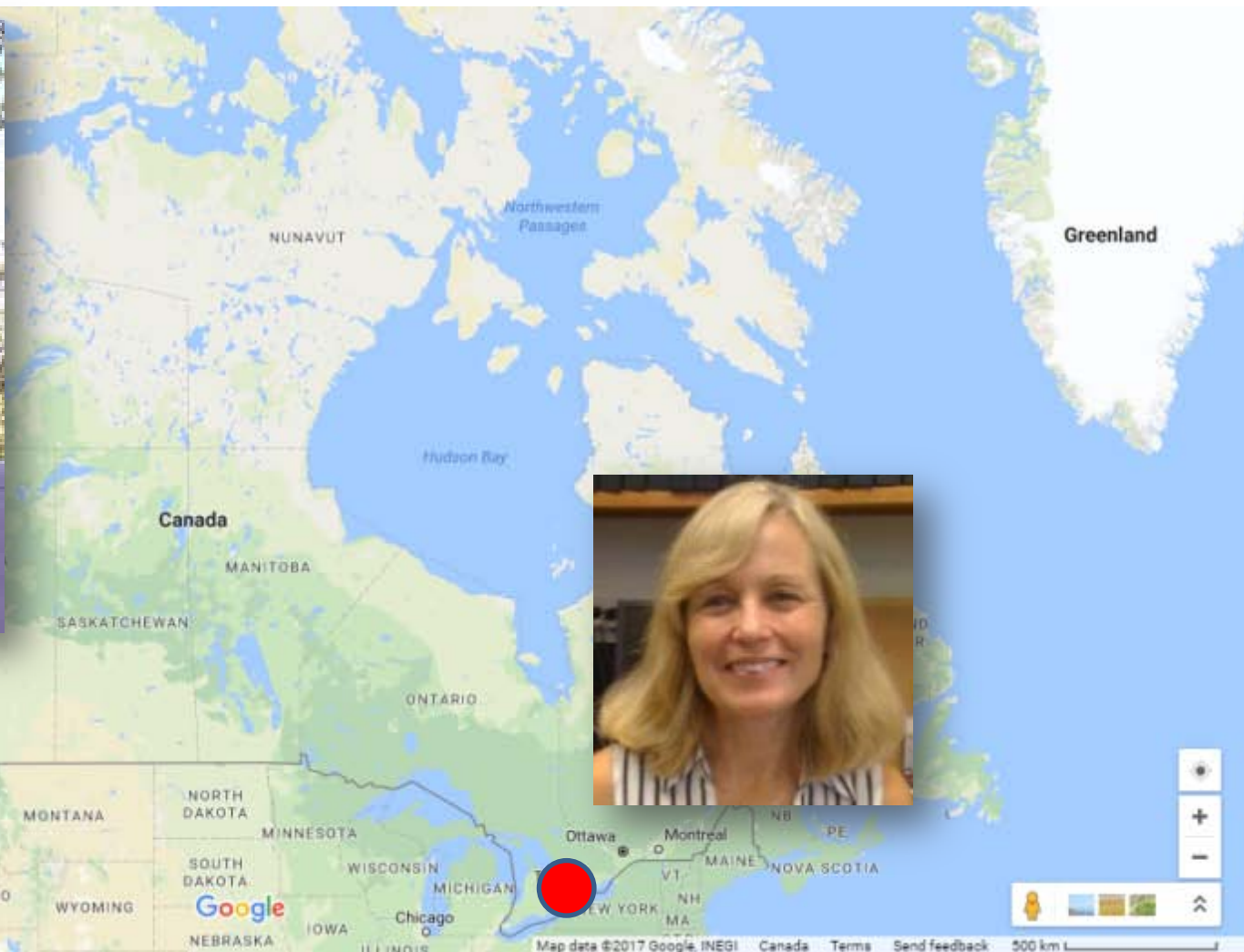


Questions or comments?

Please use the chat function, or email info@canue.ca



All About CANUE – September 12 | 2017





All About CANUE – September 12 | 2017



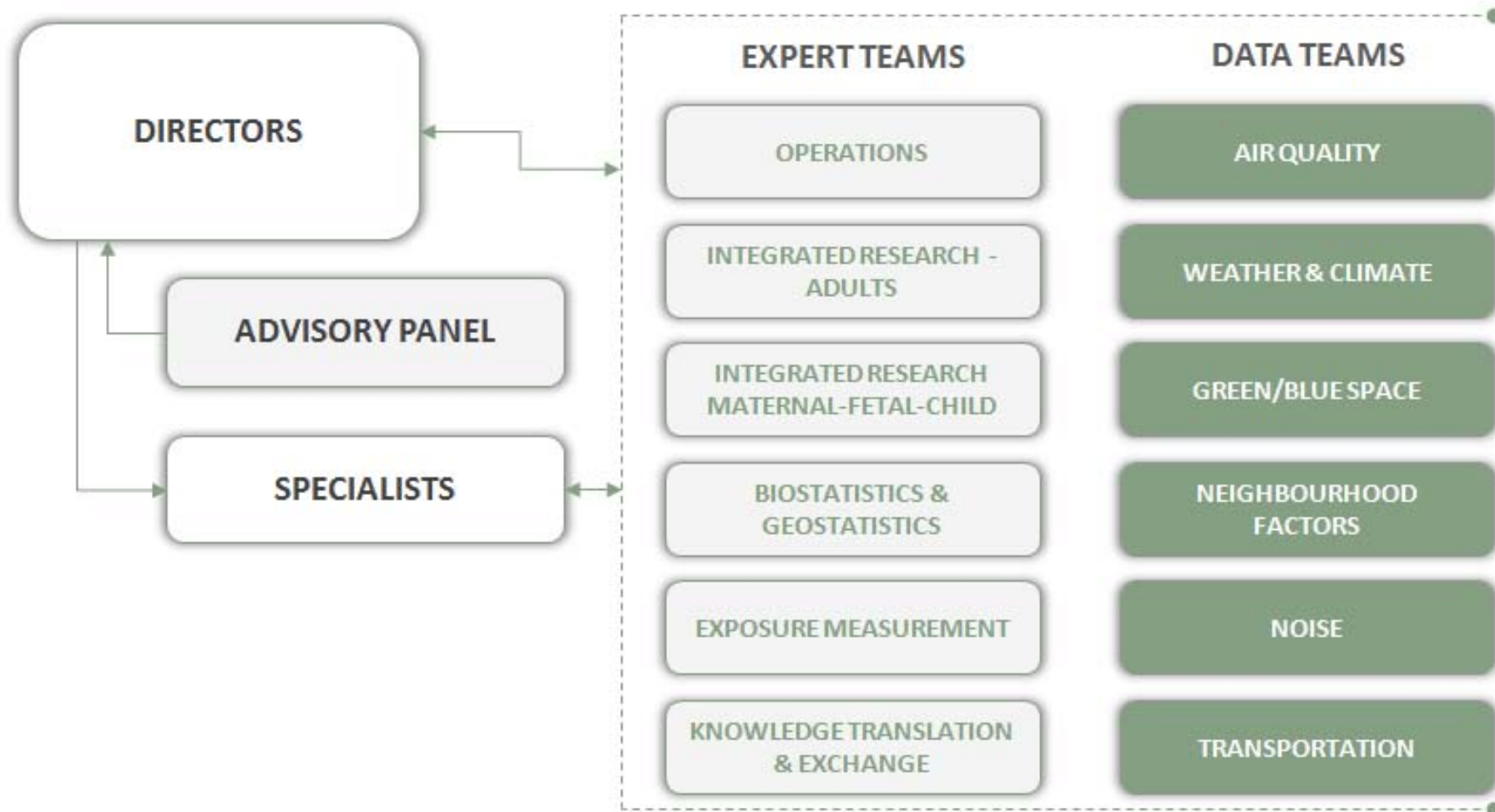
Join

<http://canue.ca/join/>

- You should be affiliated with an academic institution, government, or non-governmental agency with a mandate related to urban environmental health, or active in the development and implementation of policy that can affect environmental quality and/or land use.
- You must commit to active involvement on at least one Data or Expert Team



All About CANUE – September 12 | 2017





All About CANUE – September 12 | 2017



Member Directory

<http://canue.ca/directory/> you are here: Home

Show

40

Search:

entries

GIVEN NAME	LAST NAME	AFFILIATION	REGION	LEADERSHIP	EXPERT TEAMS	DATA TEAMS
Ahmed	Abd-El-Aziz	PhD Candidate, Environmental Science, University of Prince Edward Island	PE		Integrated Research (Maternal-Fetal-Child), Biostatistics & Geostatistics	Weather & Climate
Alan	Abelsohn	Associate Professor, Dalla Lana School of Public Health, University of Toronto; Air Quality Health Index Program, Health Environments and Consumer Safety Branch, Health Canada	ON		Knowledge Translation & Exchange	Air Quality
Matthew	Adams	Assistant Professor, Department of Geography and Environmental Studies, Ryerson University	ON		Biostatistics & Geostatistics	Air Quality; Transportation



All About CANUE – September 12 | 2017



Doodle Poll: Conference call meeting to discuss uses for high resolution modelled weather data - RESPONSE required!



Inbox x



Eleanor Setton <eleanor.setton@canue.ca>

Aug 23 ☆



to Didier, Sylvain, Abderrahmane, Ahmad, Alain, Alexandra, Andy, Audre: ▾

Hello to all! Hope you have been having a great summer! I am emailing to ask about your interest in participating in a Webinar related to potential data for use in environmental health studies, sometime during the last two weeks of September.

Please visit this Doodle poll to indicate your availability. We will schedule accordingly and send out a more formal invite/notice.

<https://doodle.com/poll/cc2c4tamwv4pwbis>

More information:

CANUE is interested in acquiring a wide range of exposure data for environmental health research purposes. Environment Canada is currently working on the 2.5 km High Resolution Deterministic Prediction system (HRDPS), expected to become operational next year. There may also be opportunities to produce re-analysis of climate over North America at 15km resolution going back to 1981.

This webinar-style meeting will provide an overview of the health databases that CANUE researchers typically use, and an overview of these new weather/climate datasets. The overall objective of the meeting is to explore the utility of these new data sets for conducting health research, and identify which health databases might be of most interest, as a first step in working together to advance our research agendas.



All About CANUE – September 12 | 2017



Newsletter

<http://canue.ca/newsletter/>

August 2017



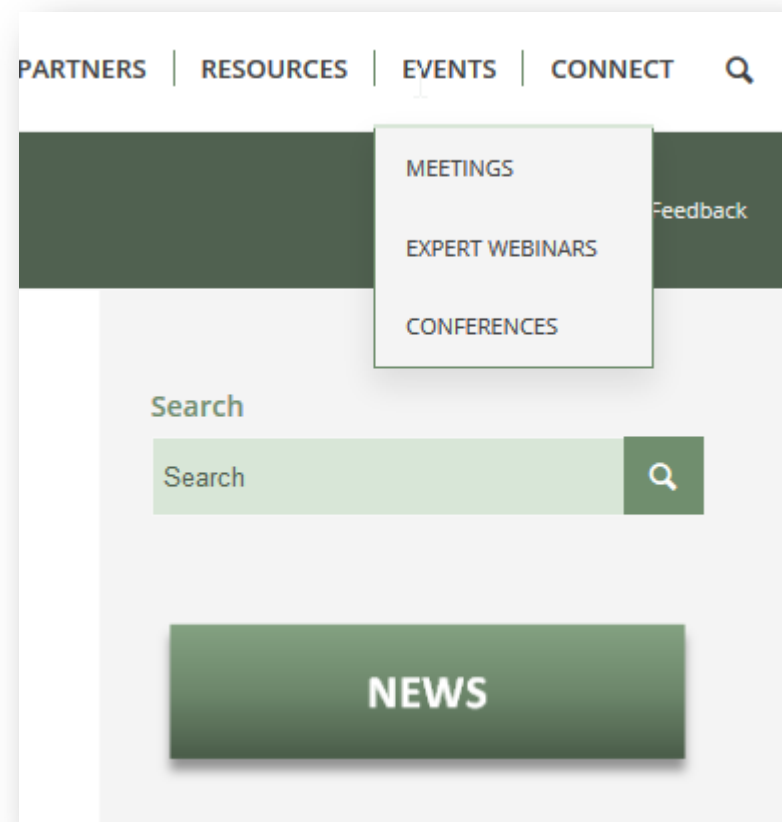
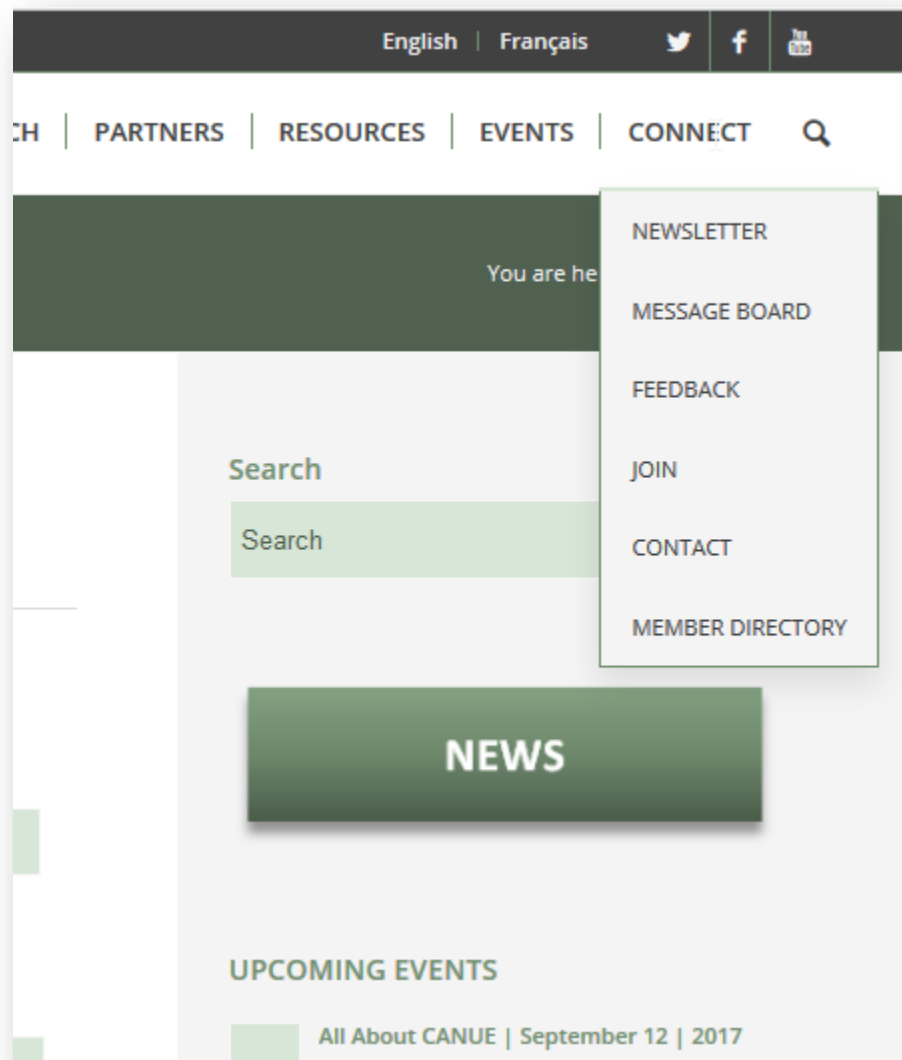
DON'T MISS OUR ONLINE MEETINGS AND EXPERT WEBINARS!

Get our announcements on Twitter or Facebook





All About CANUE – September 12 | 2017





All About CANUE – September 12 | 2017



www.facebook.com/CANUEConsortium

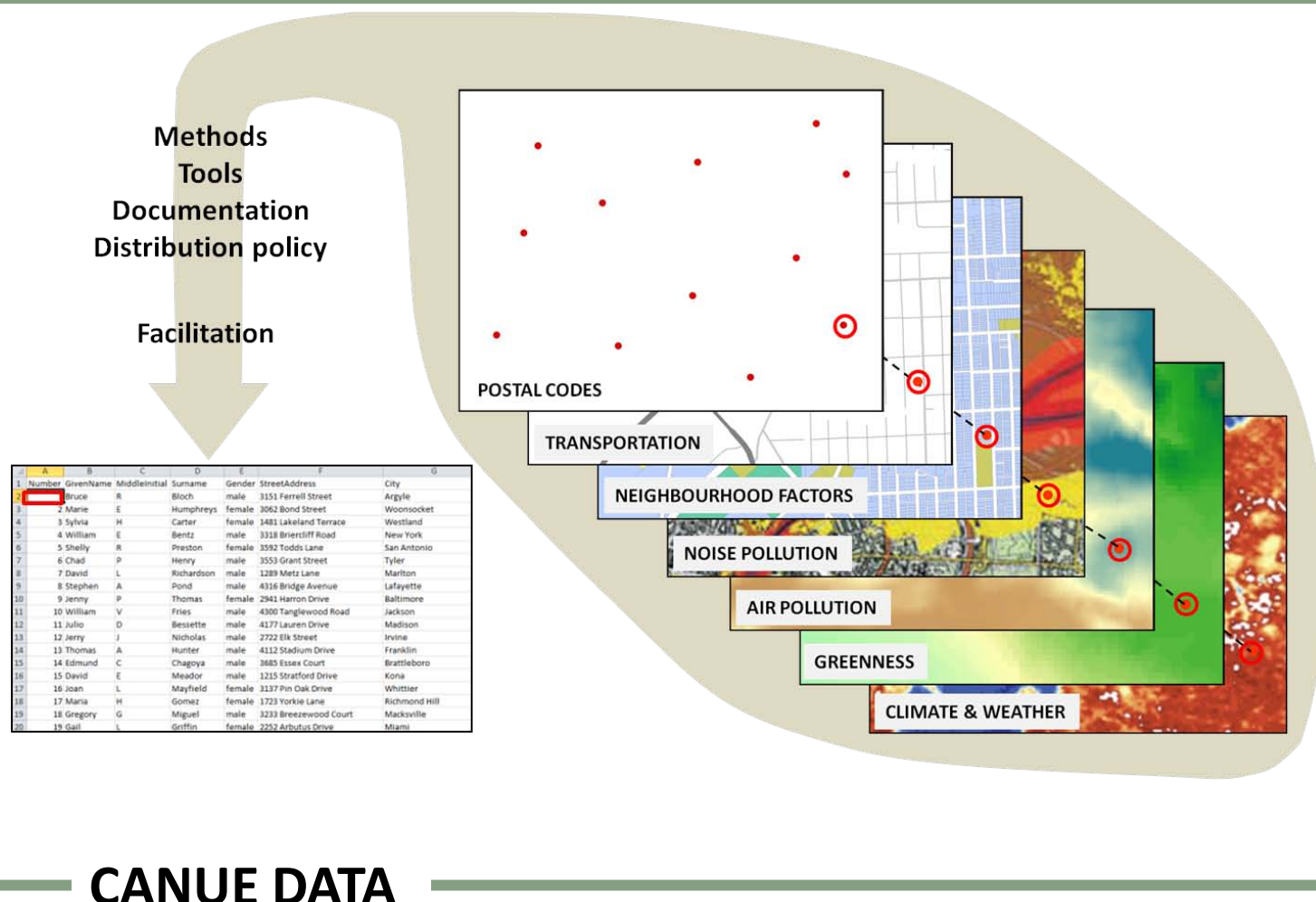


@CANUEConsortium





All About CANUE – September 12 | 2017





Does Living in Greener Areas and Near Water Affect Mortality? | October 10, 2017

9am – 10am pacific | 12 noon – 1pm eastern

REGISTER for WEBINAR

Hear the latest results based on an analysis of the Canadian Census Health and Environment Cohort, from **Dr. Dan Crouse** and **Adele Balram**, University of New Brunswick.



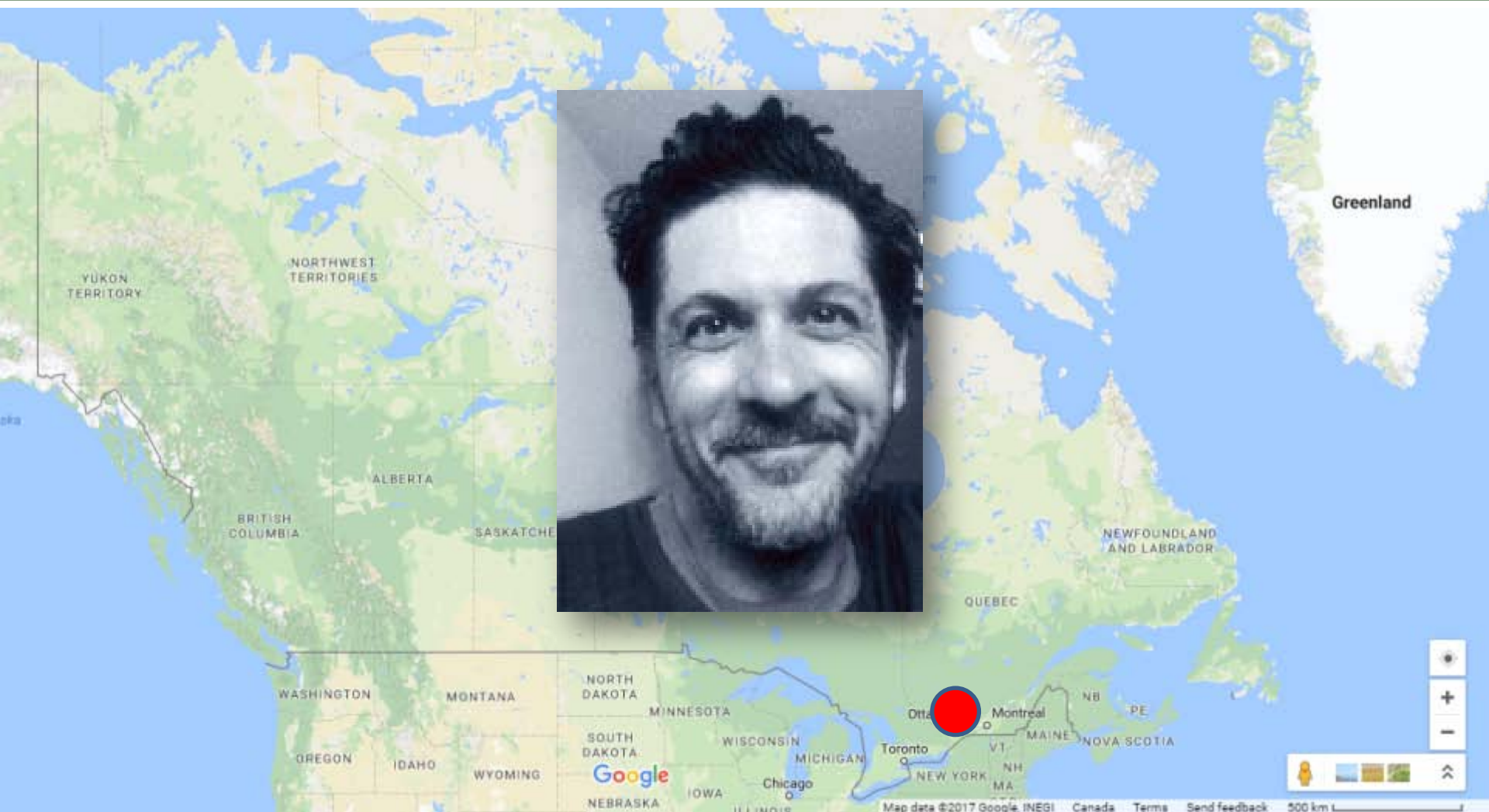


Questions or comments?

Please use the chat function, or email info@canue.ca



All About CANUE – September 12 | 2017

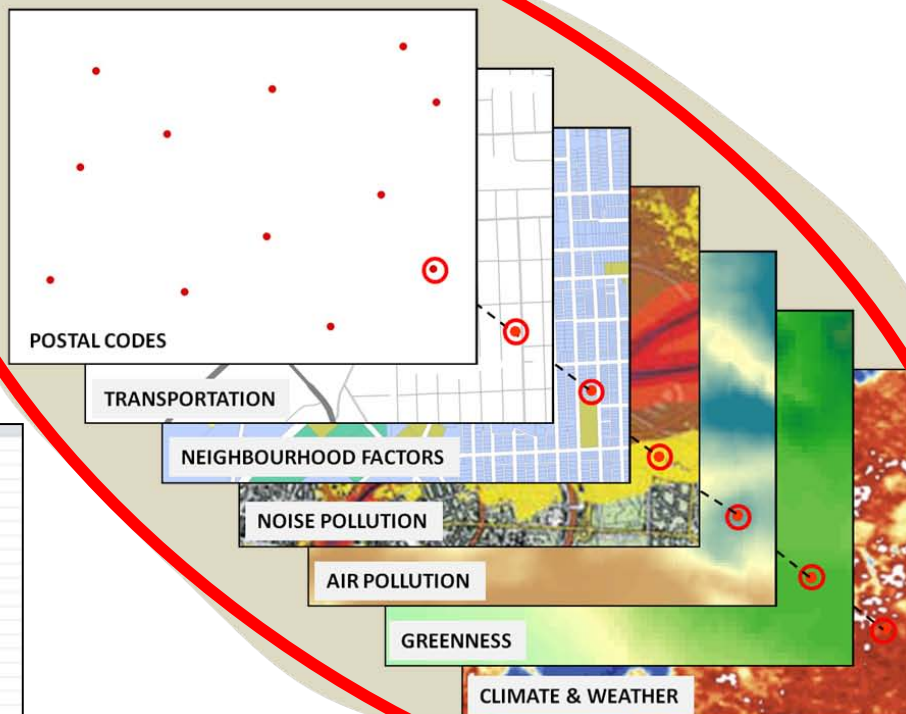




All About CANUE – September 12 | 2017

Methods
Tools
Documentation
Distribution policy
Facilitation

	A	B	C	D	E	F	G
1	Number	GivenName	MiddleInitial	Surname	Gender	StreetAddress	City
2	1	Bruce	R	Bloch	male	3151 Ferrell Street	Argyle
3	2	Marie	E	Humphreys	female	3062 Bond Street	Woonsocket
4	3	Sylvia	H	Carter	female	1481 Lakeland Terrace	Westland
5	4	William	E	Bentz	male	3392 Briercroft Road	New York
6	5	Shelly	R	Preston	female	3592 Todds Lane	San Antonio
7	6	Chad	P	Henry	male	3553 Grant Street	Tyler
8	7	David	L	Richardson	male	1289 Metz Lane	Marlton
9	8	Stephen	A	Pond	male	4316 Bridge Avenue	Lafayette
10	9	Jenny	P	Thomas	female	2941 Harron Drive	Baltimore
11	10	William	V	Fries	male	4300 Tanglewood Road	Jackson
12	11	Julio	D	Bensette	male	4177 Lauren Drive	Madison
13	12	Jerry	J	Nicholas	male	2722 Elk Street	Irvine
14	13	Thomas	A	Hunter	male	4112 Stadium Drive	Franklin
15	14	Edmund	C	Chagoya	male	3685 Essex Court	Brattleboro
16	15	David	E	Meador	male	1215 Stratford Drive	Kona
17	16	Joan	L	Mayfield	female	3137 Pin Oak Drive	Whittier
18	17	Maria	H	Gomez	female	1723 Yorkie Lane	Richmond Hill
19	18	Gregory	G	Miguel	male	3233 Breezewood Court	Macksville
20	19	Gail	L	Griffin	female	2252 Arbutus Drive	Miami



1980

2050

CANUE DATA



CANUE Data Platform – Data Themes



NEIGHBOURHOOD FACTORS



GREEN/BLUE SPACES



CLIMATE



AIR QUALITY



NOISE



TRANSPORTATION



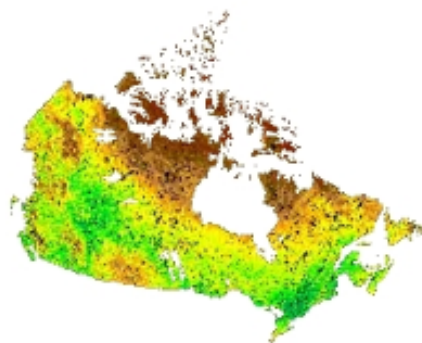
DATA PLATFORM – GREEN /BLUE SPACES

Capturing different greenness qualities

Data from the NDVI only indicate greenness, which prevents us from unraveling the causal pathways between green places and health. We are developing a suite of measures to investigate these pathways, including accessibility of green space, type of vegetation, tree canopy cover, and related estimates of ecosystem services. Building on current work in Vancouver, we will also help to enhance NDVI with measures of green space access and quality by linking municipal data and applying quality appraisal with Google Street.



NDVI: linking to every Canadian neighbourhood



The Normalized Difference Vegetation Index (NDVI) is based on satellite measurements of radiation reflected by the Earth's surface. Different characteristics of the reflected spectra can be combined to identify green vegetation – trees, grass and other plants. The NDVI has been widely used to study greenness and health. We are compiling a complete set of NDVI data covering all of Canada from the 1980s to the present. This will expand our potential to conduct additional studies to see if relationships between greenness and health are similar across Canada and in comparison to other countries.



High resolution models of urban noise

Assessing and preventing urban noise are major challenges in environmental management. One of the ways our team members are addressing this challenge is by developing Land-Use Regression (LUR) models. These models use field measurements to explain the association between urban features and corresponding urban noise in three major cities: Montreal, Halifax, and Toronto. We will expand on this work by designing a field monitoring campaign to either calibrate new LUR models in other cities or evaluate the results from noise propagation models.



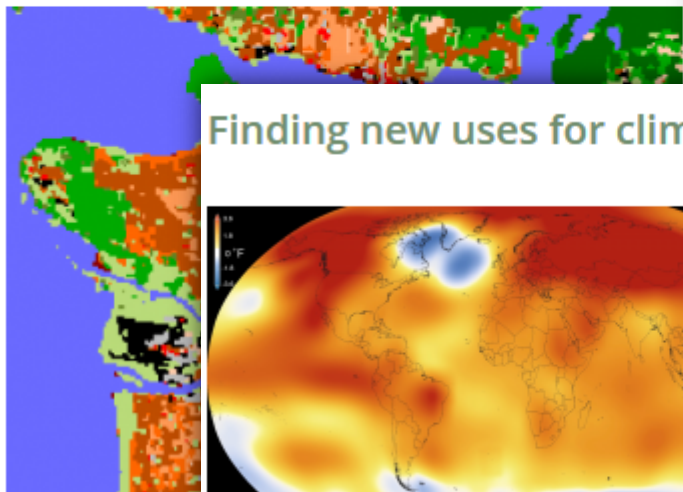
Goudreau S, Plante C, Fournier M, Brand A, Roche Y and Smargiassi A. (2014). *Estimation of Spatial Variations in Urban Noise Levels with a Land Use Regression Model*. Environment and Pollution Vol. 3, No. 4. Pages 48-58.



DATA PLATFORM – WEATHER AND CLIMATE

Mapping local climate zones

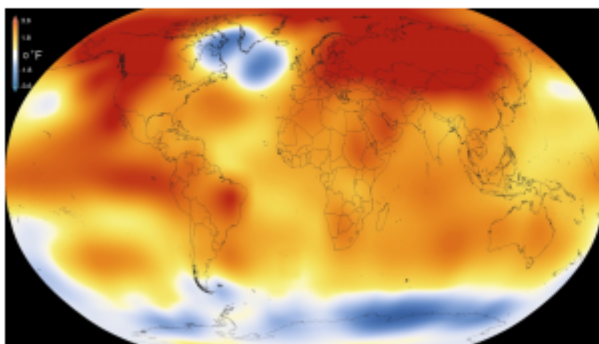
We are investigating the Local Climate Zones (LCZ) concept, which uses urban characteristics to estimate the magnitude of urban heat islands and other hazards. It is possible to define multiple LCZ classes at the neighborhood scale and link them to air quality, pollen exposure, urban flooding, and other hazards.



Climate change and allergies



Finding new uses for climate model data



The CANUE Weather & Climate Team will investigate how to use regional climate models to resolve features such as micro-heat islands, including: observations of daily maximum and minimum temperatures and precipitation produced by the Canadian Forest Service and Environment and Climate Change Canada (ECCC); reanalysis data (a systematic approach to produce data sets for climate monitoring and research) from the Climate Forecast System Reanalysis or the Japanese 55-year Reanalysis; and high resolution observation data that is gridded, such as data for British Columbia from our partners at the Pacific Climate Impacts Consortium (PCIC), or that covers the



DATA PLATFORM – AIR QUALITY

High resolution models of key pollutants



Our team members have modeled NO₂ using land-use regression (LUR) for the past ten years. We plan to standardize and document the models, and temporally adjust them to monthly and annual periods (2000 to present). Looking forward, a new suite of temporally-adjusted LURs incorporating a chemical transport model (a project from Health Canada and

Historical air pollution estimates

Our team members recently developed a nationwide, satellite-derived estimate of PM_{2.5} concentrations for multiple time windows, available on our portal. To support analyses of multiple pollutants, and for the first time, SO₂. Different exposure time windows will also be available.

A new index of air pollution

By combining
we are exp
component
traffic, ind
industry-re
associated

Looking ahead – data from the world's first geostationary satellite

In 2019 the world's first geostationary satellite (TEMPO) for measuring air pollution will produce high resolution (~5km) maps every daytime hour of tropospheric NO₂, SO₂, and aerosols. These maps can be used to estimate pollutant concentrations for all Canadian cities. CANUE members Randall Martin and Chris McLinden are part of the TEMPO science team. Prior to the launch, we will develop algorithms to access these data in real-time to map surface concentrations.





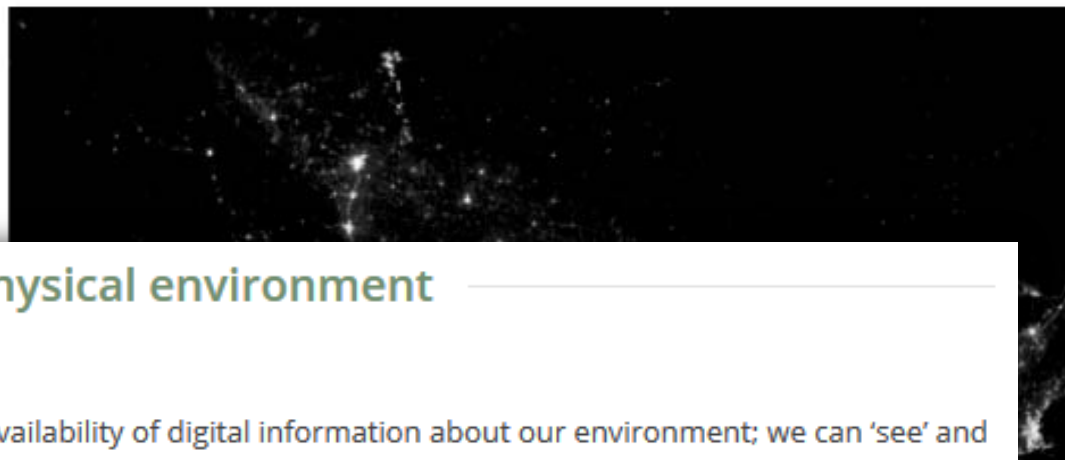
DATA PLATFORM – NEIGHBOURHOOD FACTORS

A compendium of urban form measures

We have plans to develop a wide range of urban form measures at three and six digit postal code levels for all of Canada. This database will include GIS calculations of various measures of land use mix, street connectivity, walkability, and access to transit services. Our team has expertise in measuring and validating these measures and linking them to national health surveys.



Looking at nighttime light



New metrics of the social and physical environment

We are currently experiencing a revolution in the availability of digital information about our environment; we can 'see' and sample neighbourhoods like never before using virtual auditing techniques from sources such as Google Streetview. The CANUE team will develop and validate new, nationally-consistent and 'analysis-ready' metrics of the social and physical environment. One of the ways we will achieve this is by exploring approaches to developing relevant indices from available data (such as the Canadian Marginalization Index, Community Change Index, Deprivation Index).



DATA PLATFORM - TRANSPORTATION

Understanding traffic



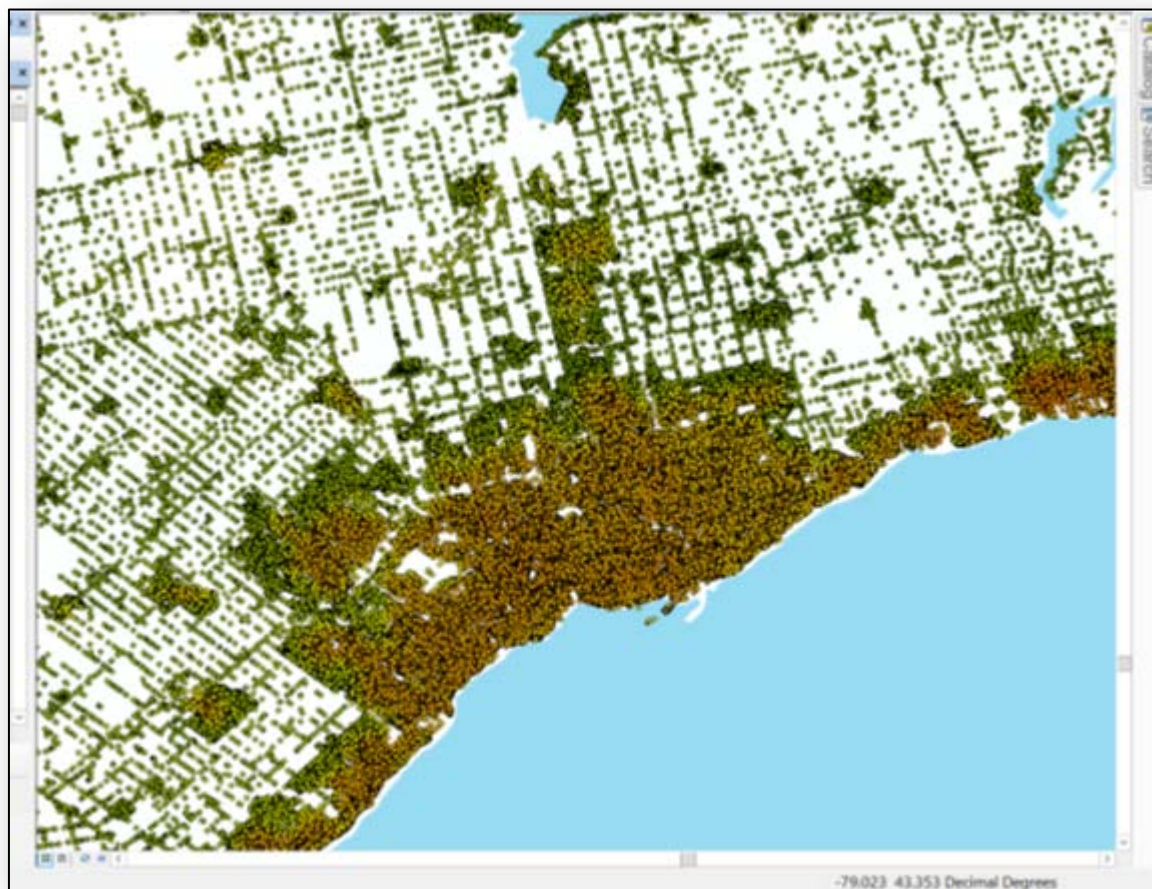
Leveraging our
compile all avail
data, which ste
develop new ex
CANUE team m
density by vehi

Big data – real time traffic and air pollution

The CANUE project will take on big data analyses that promise to improve our understanding of the interplay between urban form, traffic, air pollution, and ultimately health. By leveraging strong connections to two sources of big data related to NO₂, we can feasibly link the temporal and spatial patterns in urban levels of this pollutant. The sources are satellite data from TEMPO (a space-based instrument that monitors major air pollutants across the North American continent every daylight hour at high resolution) and real-time traffic flow patterns from the University of Toronto's Transportation Research Institute and Dalhousie University's Transportation Collaboratory (obtained from tracking mobile phone locations).



Exposure Measures Imputed Using Postal Code Locations




- Exposure metrics are spatially imputed using 6-digit postal codes
- Includes urban and rural communities from 1983 onward
- National and regional scale data sets



Data Documentation and User Agreements

DATA FILE INFORMATION	
CANUE Data Catalogue ID:	
Date File Generated:	
File Name:	
File Type:	
Software and Version Used to Create This:	
Beginning Date:	
End Date:	
Sampling frequency of data in file:	
Sampling interval of data in file:	
Data acquisition sampling interval:	
Detection limits:	
Number of Data Records:	
Availability Status:	
Maintenance Description:	
Log of Changes:	
Conditions of Use:	
Data Sharing Restrictions:	
Data Comment:	
Data Comment:	
Data Comment:	
Data Comment:	
Data Comment:	
Data Set Title:	
Theme Keywords:	
Place Keywords:	
File Content Description:	Enter a short, accurate explanation of the dataset in the box below. Be informative as this is used for the description on the web page index. Write in box or cut and paste information. Insert rows as required to extend box.
Recommended Citation:	
Recommended Acknowledgment:	
DATASET CONTACTS	
Principal Investigator	Co-Investigator(s)
Email:	
Phone:	


CANUE
Data Sharing and End Use Agreement

1. Purpose of Agreement:

One of the goals of CANUE is to develop a properly curated set of geospatial data for distribution and use to consortium members for environmental exposure analysis. The purpose of this agreement is to allow Authorized Users to use data available from the CANUE Data Catalogue and to permit the dissemination of any resulting data products or publications, while restricting Authorized Data Users from transferring raw data from the CANUE Data Catalogue to those who are not Authorized Data Users.


2. Summary of DO's and DON'Ts


DO	DO NOT
Responsibly use the data for your own analysis, research, and policy-making as per data use restrictions for the original source dataset.	Lend, rent, sell, or give away downloaded data products to non-authorized users


Original Investigation
Association of Neighborhood Walkability With Change in Overweight, Obesity, and Diabetes
Maria I. Creators, PhD; Richard H. Glazier, MD; Rahim Moineddin, PhD; Ghazal S. Fazil, MPH; Ashley Johns, MSc; Peter Gozdyra, MA; Flora I. Matheson, PhD; Vered Kaufman-Shriqui, PhD; Laura C. Rosella, PhD; Doug G. Manuel, MD, PhD; Gillian L. Booth, MD

IMPORTANCE Rates of obesity and diabetes have increased substantially in recent decades; however, the potential role of the built environment in mitigating these trends is unclear.

OBJECTIVE To examine whether walkable urban neighborhoods are associated with a slower increase in overweight, obesity, and diabetes than less walkable ones.

 Editorial page 2175

 Author Video Interview and JAMA Report Video at jama.com

 Supplemental content at jama.com



Questions or comments?

Please use the chat function, or email info@canue.ca



All About CANUE – September 12 | 2017





**Input file
(Environmental Factors)**

Air pollution (Grib)

Weather (NetCDF)

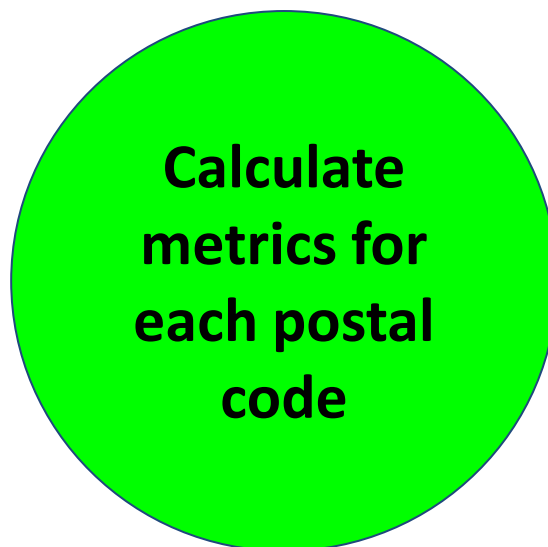
**Satellite Images
(GeoTIFF)**

**Google Street View
(jpeg/png)**

GIS derived data (DBF)



**Data processing in
CANUE**



**Output file
(standard format)**

**Results
and
Metadata**



All About CANUE – September 12 | 2017



Use only cloud free pixels
Delete water features
Export annual/growing season

For each postal code , calculate
Annual average
Seasonal average
Seasonal maximum

For each postal code ,
calculate average and
maximum within 100m,
250m, 500, 750m and 1km



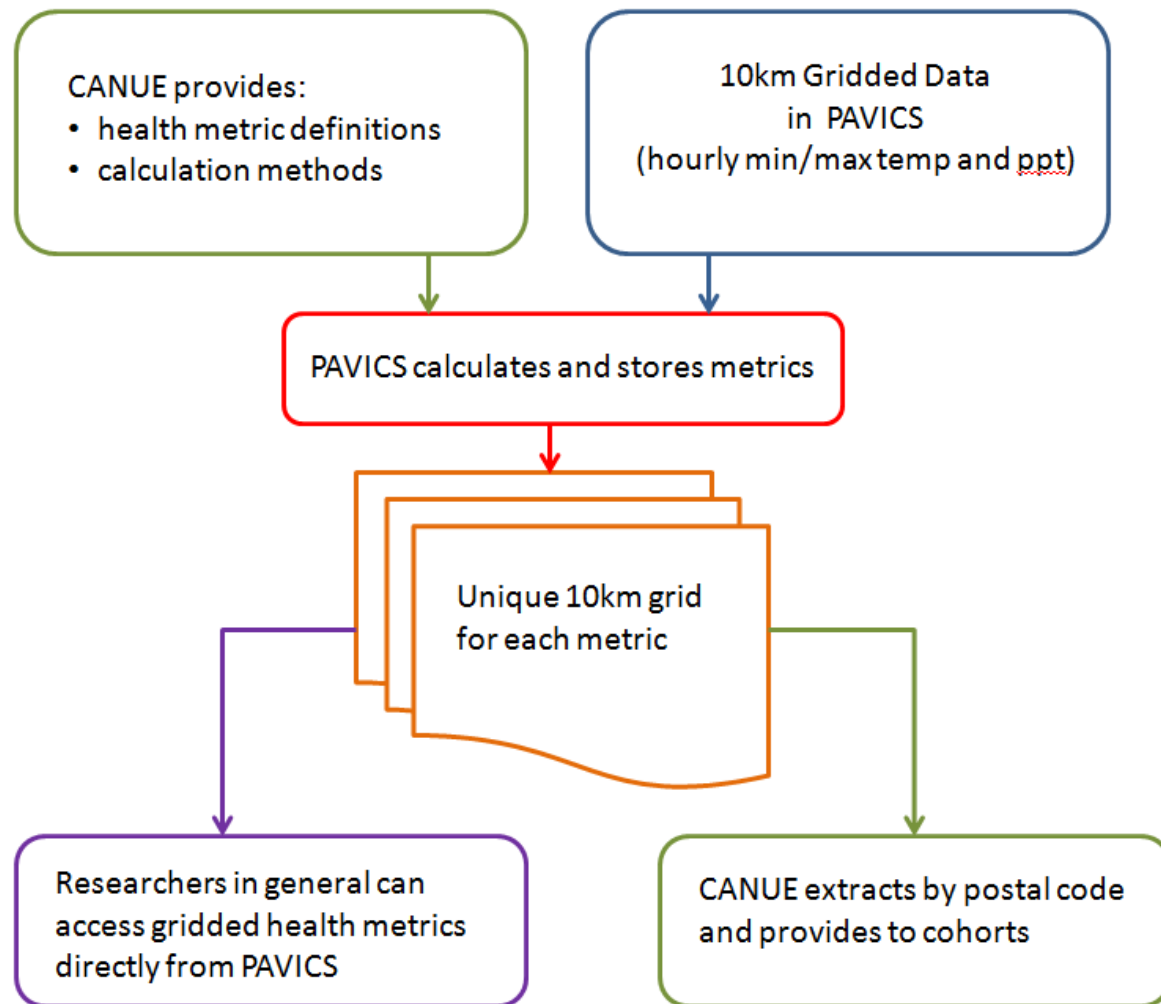
Google Street View Images

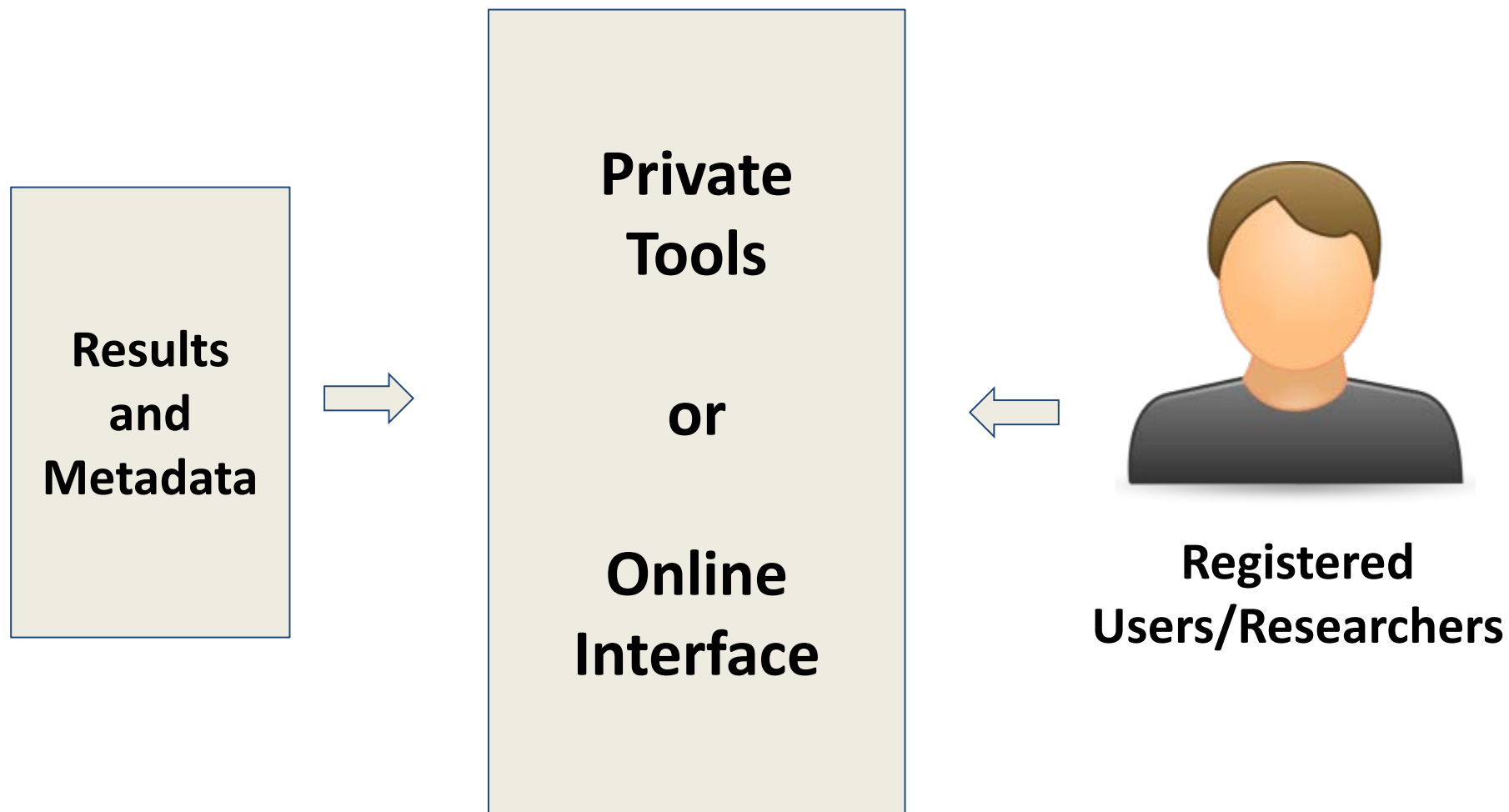
- Create training data sets – javascript interface
- Classify images around postal codes – neural network/machine learning algorithms





All About CANUE – September 12 | 2017



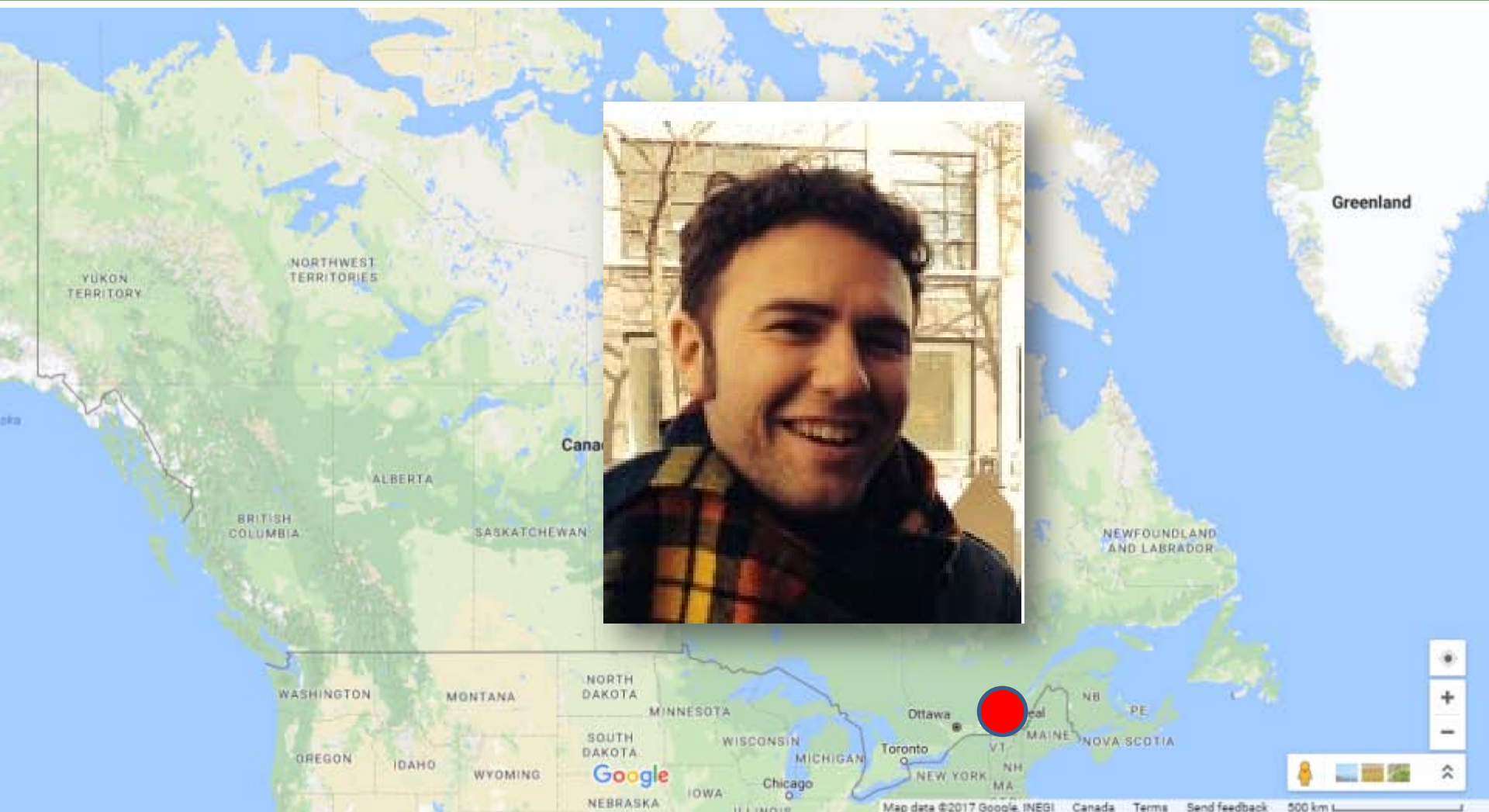


Questions or comments?

Please use the chat function, or email info@canue.ca



All About CANUE – September 12 | 2017



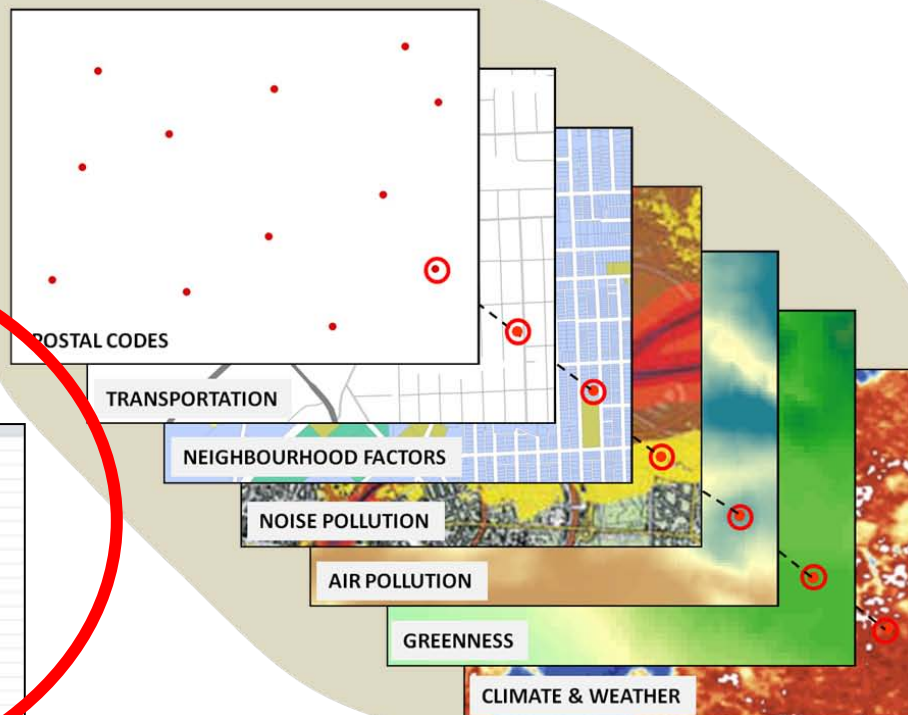


The CANUE DATA PLATFORM

Methods
Tools
Documentation
Distribution policy

Facilitation

Number	GivenName	MiddleInitial	Surname	Gender	StreetAddress	City
1	Bruce	R	Bloch	male	3151 Ferrell Street	Argyle
2	Marie	E	Humphreys	female	3062 Bond Street	Woonsocket
3	Sylvia	H	Carter	female	1481 Lakeland Terrace	Westland
4	William	E	Bentz	male	3192 Briercroft Road	New York
5	Shelly	R	Preston	female	3592 Todds Lane	San Antonio
6	Chad	P	Henry	male	3553 Grant Street	Tyler
7	David	L	Richardson	male	1289 Metz Lane	Marlton
8	Stephen	A	Pond	male	4316 Bridge Avenue	Lafayette
9	Jenny	P	Thomas	female	2941 Harron Drive	Baltimore
10	William	V	Fries	male	4300 Tanglewood Road	Jackson
11	Julio	D	Bensette	male	4177 Lauren Drive	Madison
12	Jerry	J	Nicholas	male	2722 Elk Street	Irvine
13	Thomas	A	Hunter	male	4112 Stadium Drive	Franklin
14	Edmund	C	Chagoya	male	3685 Essex Court	Brattleboro
15	David	E	Meador	male	1215 Stratford Drive	Kona
16	Joan	L	Mayfield	female	3137 Pin Oak Drive	Whittier
17	Maria	H	Gomez	female	1723 Yorkie Lane	Richmond Hill
18	Gregory	G	Miguel	male	3233 Breezewood Court	Macksville
19	Gail	L	Griffin	female	2252 Arbutus Drive	Miami



1980

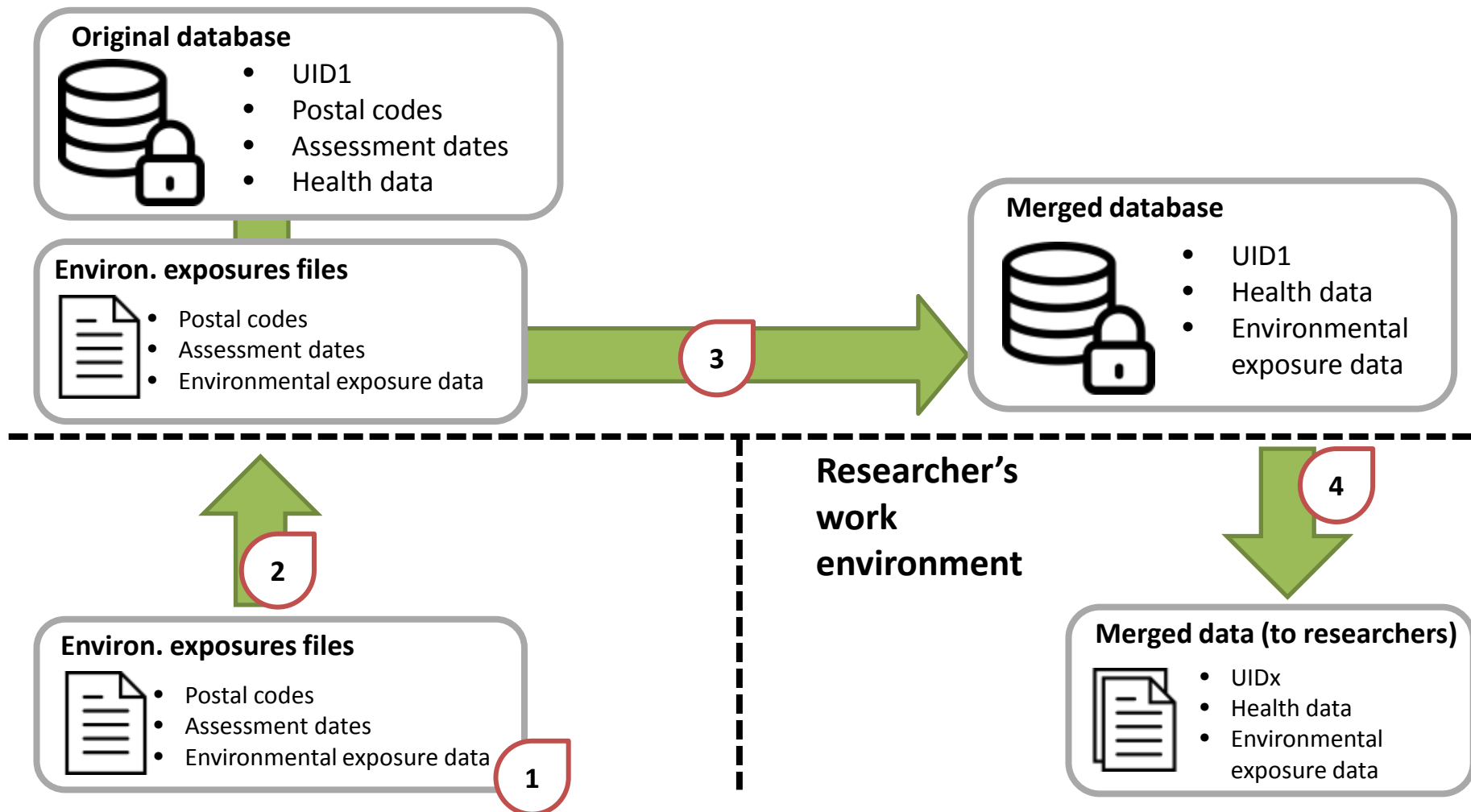
2050

CANUE DATA



All About CANUE – September 12 | 2017

PROPOSED DATA MERGING PROCESS





DATA MERGING STAKEHOLDER INTERVIEWS

Objective:

To identify data transfer model that works best for Canadian health data holders



Key results:

Preference for bulk data transfers on routine basis.

Interest in a hybrid model, with “high interest” data being transferred routinely and other less “in-demand” data being left at CANUE central to be pulled as needed



Two scheduled yearly environmental exposure data deliveries:



FALL – National datasets



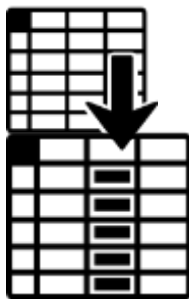
SPRING – regional datasets





Data format:

- Tabular format



- Most data will be provided as standard measures at every postal code, by year



Annual averages



Postal code level data

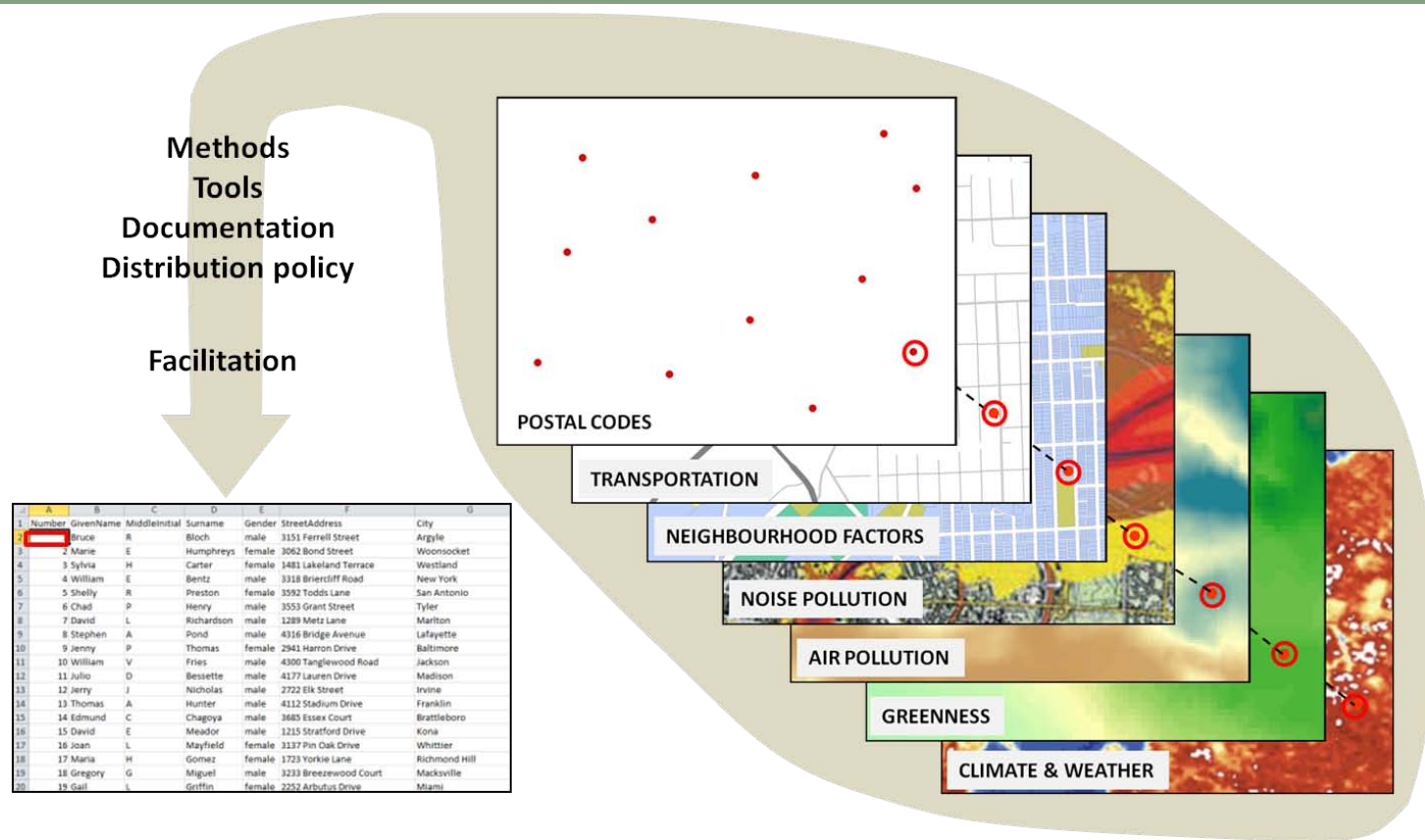
- CANUE will also provide on demand custom time/spatial resolution

Questions or comments?

Please use the chat function, or email info@canue.ca

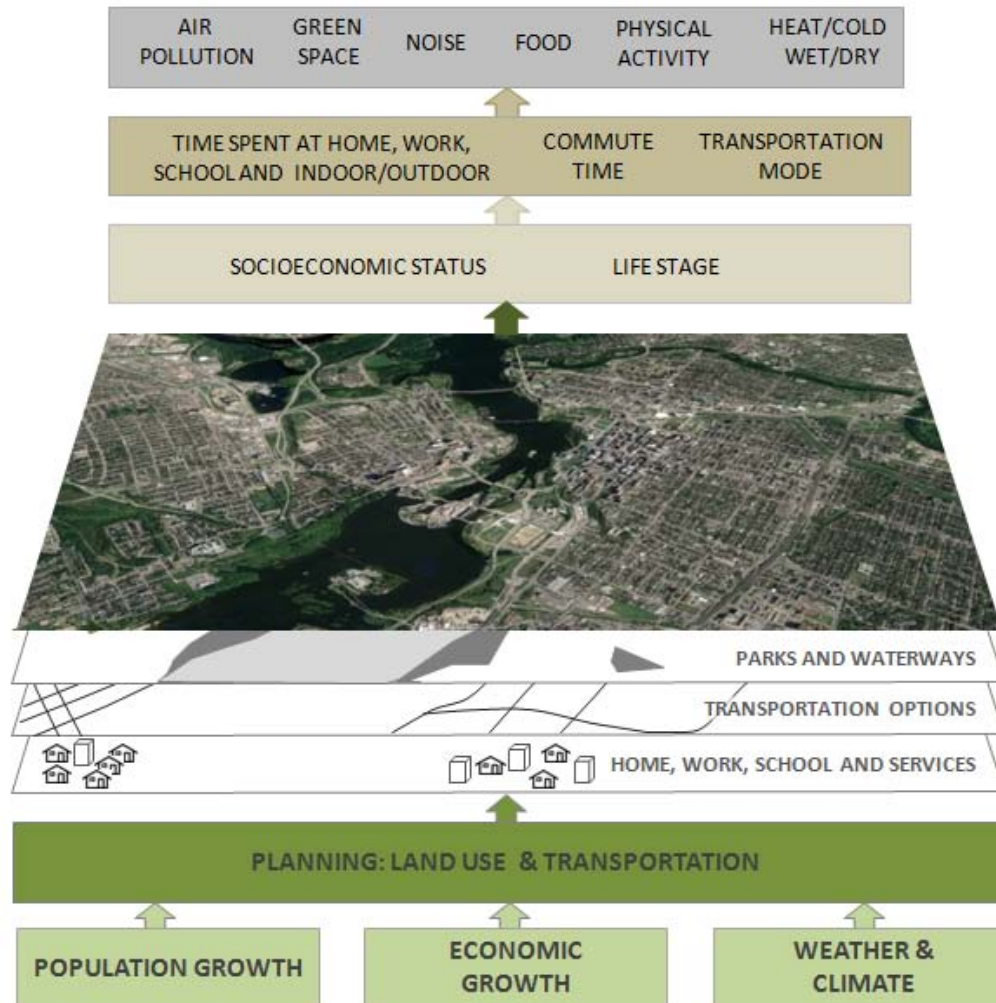


All About CANUE – September 12 | 2017





All About CANUE – September 12 | 2017



Questions or comments?

Please use the chat function, or email info@canue.ca

THANK YOU