

THE WORLD COUNCIL ON CITY DATA

BETTER DATA FOR BETTER DECISIONS

Dr. Patricia L. McCarney

Rural Talks: Climate Change In Huron

Blyth Ontario October 23 2019

http://www.dataforcities.org/

Twitter: @WCCityData

Facebook: WCCityData

GLOBALLY STANDARDIZED CITY DATA

AND

THE WORLD COUNCIL ON CITY DATA

Cities and the Challenges of Comparative Data



CITY DATA ACROSS THE WORLD IS UNEVEN -

- DIFFERENT DEFINITIONS OF WHAT IS BEING MEASURED
- DIFFERENT METHODOLOGIES ON HOW **MEASUREMENT IS UNDERTAKEN**
- * AND ACCORDING TO DIFFERENT **BOUNDARIES OF THE CITY BEING MEASURED**

 $MIT \rightarrow World Bank \rightarrow Canada$



The **first** ISO standard for cities.

Published July 2014

WCCD Launched July 2014



ISO 37120

104

Indicators



themes

- **Economy**
- Education
- Energy
- **Environment &** climate change
- (\$) **Finance**
- Governance

- Health
- Housing
- Population & social conditions
- Recreation
- Safety
- Solid Waste

- **Sport & Culture**
- **Telecommunication**
- Transportation
- Urban/local agriculture & food security
- **Urban Planning**
- Wastewater
- Water



WCCD CERTIFICATION LEVELS

ISO 37120

ISO 37120 ISO 37120

ISO 37120

ISO 37120



WORLD COUNCIL ON CITY DATA



WORLD COUNCIL ON CITY DATA



WORLD COUNCIL ON CITY DATA



WORLD COUNCIL ON CITY DATA



WORLD COUNCIL ON CITY DATA

ASPIRATIONAL	BRONZE	SILVER	GOLD	PLATINUM
30-44 Core Indicators	45-59 Indicators	60-75 Indicators	76-90 Indicators	91-104 Indicators
	45 Core + 0-14 Supporting	45 Core + 15-30 Supporting	45 Core + 31-45 Supporting	45 Core + 46-59 Supporting





WORLD COUNCIL ON CITY DATA

WELCOMING CITIES OF ALL SIZES TO BECOME ISO 37120 CERTIFIED

0 - 50,000		
50,000 - 100,000		
100,000 – 250,000		
250,000 - 500,000		
500,000 - 750,000		
750,000 – 1,000,000		
1,000,000 - 5,000,000		
5,000,000 - 10,000,000		
10,000,000 +		

ISO TC268 WORKING GROUP ON CITY INDICATORS





Beyond ISO 37120 – Two new demand driven city data standards

ISO 37122 – INDICATORS FOR SMART CITIES

ISO 37123 – INDICATORS FOR RESILIENT CITIES

WCCD ISO CERTFIED CITIES WORKING WITH 100 CITIES ACROSS 38 COUNTRIES



HOW DOES ROTTERDAM PROMOTE ACTIVE TRANSPORTATION?

Kilometres of bicycle paths and lanes per 100 000 population

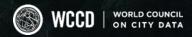
102.2

Rotterdam Netherlands

ISO 37120



ON CITY DATA





HOW DO LONDONERS GET TO WORK?

Percentage of commuters using a travel mode to work other than a personal vehicle

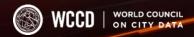
74%

London England

TSO 37120



ON CITY DATA









HOW ECONOMICALLY ATTRACTIVE IS MY CITY?

Assessed value of commercial and industrial properties as a percentage of total assessed value of all properties

69.1%

Dubai UAE









HOW IS SAN DIEGO
DRIVING SMART CITY
INNOVATIONS?

Number of new patents per 100,000 population per year,

383.8

San Diego USA

ISO 37120



WORLD COUNCIL







Number of higher education degrees per 100,000 population

47,014

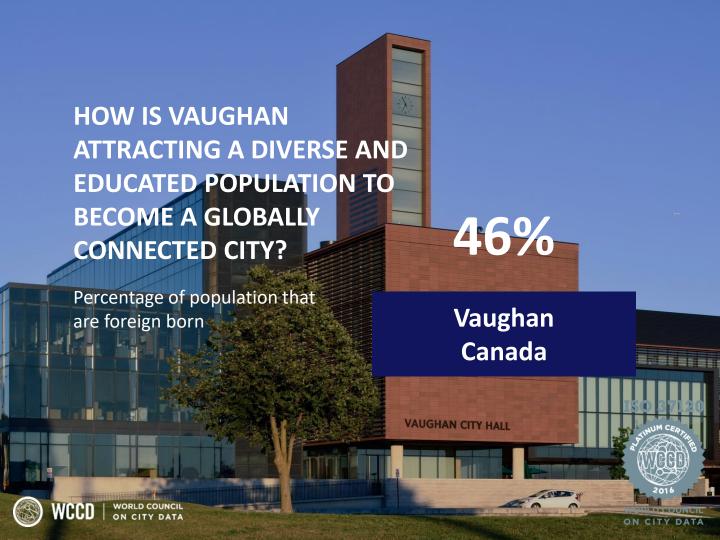
Toronto Canada

ISO 37120



WORLD COUNCIL





HOW CONNECTED IS AMSTERDAM?

Commercial air connectivity (number of non-stop commercial air destinations)

220,326

Amsterdam Netherlands





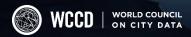


Green area (hectares) per 100 000 population

or war and the training

1,489

Helsinki









USING THE DATA: REPORTS AND APPLICATIONS

- Infrastructure Investment / Baselines and Benchmarking
- Competitiveness / FDI / Investable Cities
- Smart Cities
- Resilient Cities Risks and Insurance
- Sustainable Development (UN)







DATA DRIVEN INFRASTRUCTURE INVESTMENT



DATA IS THE ESSENTIAL STARTING POINT





Infrastructure Canada



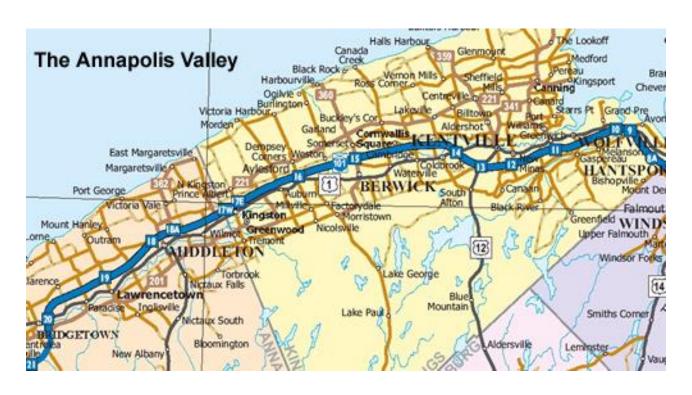
DATA TO INFORM AND DRIVE **COMPETIVENESS STRATEGY AND ATTRACT**

FOREIGN DIRECT INVESTMENT

TORONTO REGION RESPONSE TO AMAZON HO2 RFP

TORONTO IL GLOBAL

Annapolis Valley — Nova Scotia Certifying the first "Smart+Sustainable Rural Region"



WHAT ARE CITY LEADERS SAYING ABOUT THE WCCD ACROSS CANADA?



Jeff Cantwell Mayor, **Wolfville**

"Increasingly, local decisions are being driven by global initiatives and scientific data. Communication is vital if we are to continue to function as a federation of communities across this great Dominion and continue to offer Canadians, no matter where they choose to live, work and play, an opportunity to compete in and contribute to the well-being of their respective communities. Understanding where one's community stands in relation to others, as a comparison, allows one to measure its growth against a standardised benchmark. We are excited about the growth and expansion of the WCCD network in Canada which will allow Wolfville and the Annapolis Valley an opportunity to better understand their successes and challenges in a Canadian and global context."

WHAT ARE CITY LEADERS SAYING ABOUT THE WCCD ACROSS CANADA?

"As Mayor of this small town of 3,800 people, I am very excited on what such an endeavour [WCCD ISO 37120 certification] means to us. As you are aware, the ISO 37120 standard measures activity using 100 indicators across 17 themes [and] include cities like Toronto, Quebec, Amsterdam, Boston and Barcelona. No reason why the little Town of Windsor, can't be part of the global picture and the changes taking place. Being known as a Smart Region will showcase our communities on the international stage and position us as a leader in rural investment readiness and competitiveness."

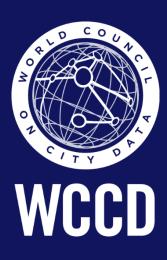


Anna Allen, Mayor, Windsor





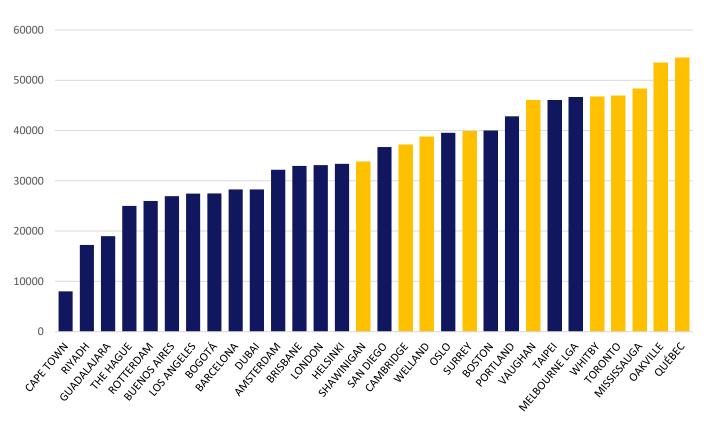
Canadian Cities on the Global Stage



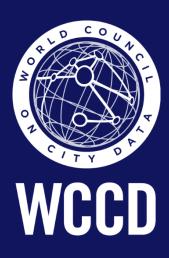
EDUCATION

WCCD ISO 37120 Indicator 6.7:

Number of higher education degrees per 100,000 population



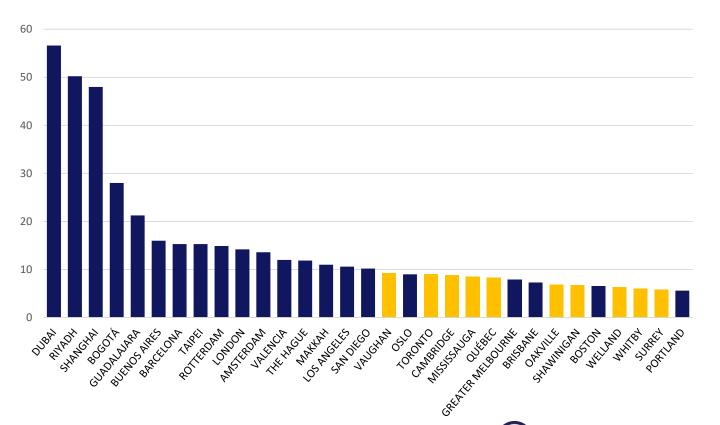




ENVIRONMENT

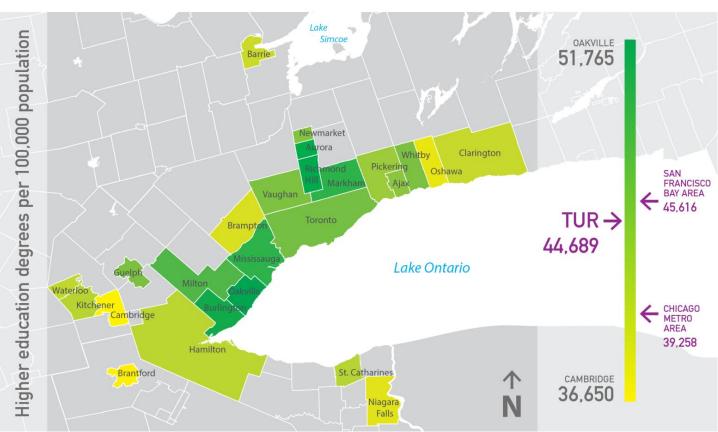
WCCD ISO 37120 Indicator 8.1:

Fine particulate matter (PM2.5) concentration

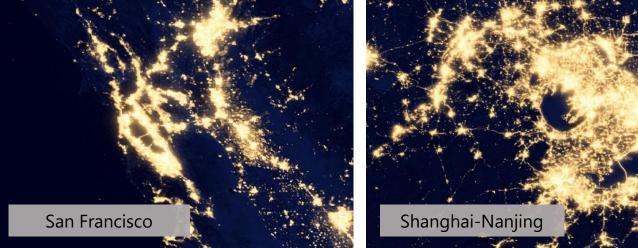




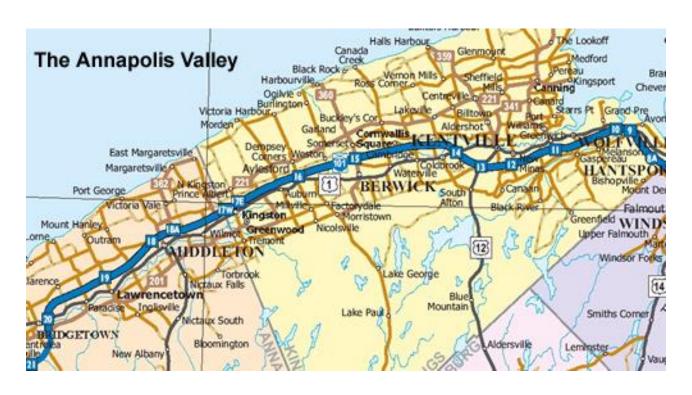
Toronto Urban Region – Higher Education Degrees

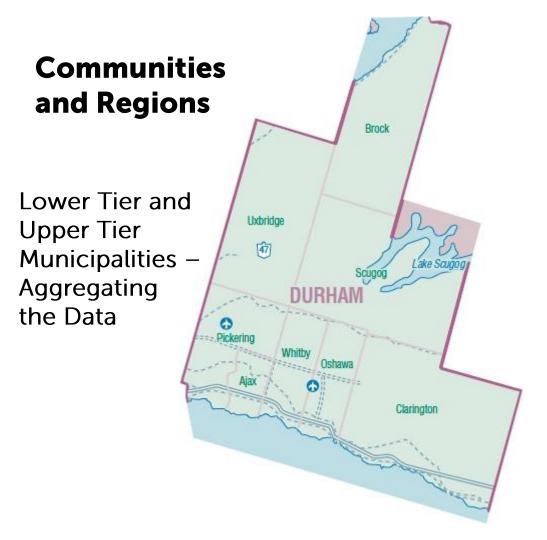






Annapolis Valley — Nova Scotia Certifying the first "Smart+Sustainable Rural Region"





The Cascadia Corridor Driving Urban Innovation

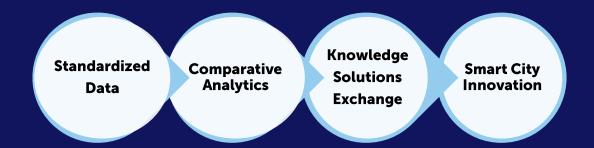
Vancouver and Surrey Seattle Portland





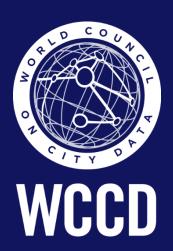
ISO 37122 – INDICATORS FOR SMART CITIES

DATA FOR SMART CITIES



Standardized data facilitates city to city learning, encourages city solutions to travel globally and fosters smart city innovation





ISO 37123 – INDICATORS FOR RESILIENT CITIES

for resilience will assist cities to prepare for, recover from and adapt to shocks and

stresses.

The availability of ISO standardized metrics





DATA FOR SUSTAINABLE CITIES

THE WCCD AND ISO 37120 LOCALIZING THE UNITED NATIONS SDGS



The United Nations Sustainable Development Goals 17 Goals for 2030



























WCCD CITY DATA FOR THE UNITED NATIONS SUSTAINABLE DEVELOPMENT GOALS

2018













13 CLEMATE

14 UFE BELOW WATER

₩





ISO 37120 ON CITY DATA

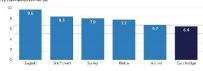
ISO 37120 The first international standard for city data - 100 city indicators

Cambridge, Canada is ISO 37120 Platinum certified by the World Council on City Data Great Data for a Great City

6.4% CITY'S UNEMPLOYMENT RATE

HOW DID CAMBRIDGE ACHIEVE THIS?

WCCD ISO 37120 INDICATOR 5.1: City's unemployment rate (%)



Promoting business

Diverse labour sector

Economic Partnerships

Embracing plobal poals and taking local action

As the future location of the WCCDI Local Data Hub, Cambridge is fast becoming a global, easier in localizing and embracing the Linited Nations Sustainable Development Goals (3DGs) and the 2037 Agencal Cities have been errorging on the global stage as economic powernouses, engaging in a nationy of global challenges including inequality, migration, unemp environments, degradation, and climate change. With a focus or SDG 8: Decent World and Economic Growth, Cambridge is dedicated to promothy inclusive and sustainable economic growth, full and productive employment and sele and equal workplaces for all. As a transportation rub, home to highly skilled talent, and the ability to attract small and large businesses. Cambridge can offer a private economy to meet growing business demand. Cambridge is currently frome to a foundating food-manufacturing sector, injects Canada and Froir Hyman Group's North American headquarters. The development of Grand Innovations, a new technology incubator focused on advanced manufacturing and cyber security to yield innovative solutions, will be a catalyst for economic development.

Small city, big prospects

City officials in Cambridge have long been approaching local issues with a global perspective. Cambridge was selected as one of eight numeripal tics around the world. The only one in Canada - to be a part of the UN WCCD local data nubs that strive to bothe glocal problems through transparent and standardized data. Cambridge it in the company of global cities such as Buenos Aires, Dubai, Johannesburg, and Los Arrgeles. Cambridge has prover itself to be a leader in forward thinking innovation that insches action to foster unowih in oties around the world. Through the development of local initiatives. Combridge is taking thepr beward sustainability and higher quality of The

Establishing financial independence

Since 2015 the Government Finance Officers Association of the United States and Canada has presenced Comprises with a Canadian Award for Financial Reporting. The award recognizes a city's commitment to transcarency and full disclosure. Through open communication and maximizing nontax sources of revenue, Cambridge has created the financial independence meeted to take the tradion presum issues.

CH CONTRIBUTES TO ...

CAMBRIDGE IN A GLOBAL CONTEXT

WCCD ISO 37120 INDICATOR 6.7: Number of higher education degrees per 100 000 population



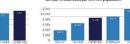
WCCD ISO 37120 INDICATOR 9.2:

WCCD ISO 37120 INDICATOR 19.4:

Jobs/housing ratio







ABOUT THE WCCD

Discovering solutions for our rapidly urbanizing planet, the World Council on City Data (WCCD) is the global feature in standardized dity data – creating smart, sustainable, resilient, and prosperous offes.

the W1330 is implamenting ISO 375915 intainable Davidoomani of Communities, indicators for Chyberaces and

Quality of Life, the new international standard, created by diles. For cities, the WCCD has developed the first ISC 17790 contractation system and the Global Cities Angiotopia.

The WCCO hosts a natwork of innovative care committed to improving zero and quality of this with open city data and provides a constituent and comprehensive planters for sundanded urbanina inci-



WCCD | WORLD COUNCE.

datafordities.org



dataforcities.org



NETWORKS & PARTNERSHIPS

WCCD'S NETWORK OF GLOBAL PARTNERSHIPS





Statistique Canada





























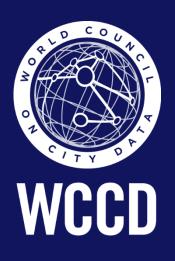


WORLD COUNCIL ON CITY DATA









THE WORLD COUNCIL ON CITY DATA

Toronto, ON M5S 2H9

Phone +1 416 966 2368

Email info@dataforcities.org

Web www.dataforcities.org



THE WORLD COUNCIL ON CITY DATA

*Disclaimer and Confidentiality Clause Governing this Set of Slides Describing the World Council on City Data City 2019

All information presented herein is the property of the World Council on City Data which retains all rights, title and interests (including all intellectual property rights) to such information. Disclosure of such information to a receiving party pursuant to any conversation, presentation or other communication does not constitute an assignment, license or similar transfer of any proprietary rights of the World Council on City Data. In receiving such information, each recipient acknowledges the proprietary rights of the World Council on City Data to, and agrees to keep confidential, such information.

© WCCD 2019, All Rights Reserved