

CITY OF VAUGHAN SMART CITY TASK FORCE AGENDA

This is an Electronic Meeting. City Hall will not be open to the public.

Tuesday, December 1, 2020 9:00 a.m.

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- 1. CONFIRMATION OF AGENDA
- 2. DISCLOSURE OF INTEREST
- 3. COMMUNICATIONS

4. DETERMINATION OF ITEMS REQUIRING SEPARATE DISCUSSION

- 1. 2021 SCHEDULE OF MEETINGS Administration / information item – Office of the City Clerk.
- 2. VAUGHAN DATA DRIVEN INSIGHTS Presentation by Dr. Patricia McCarney, President and CEO, World Council on City Data (WCCD).
- 3. SMART CITY DATA AND PRIVACY Discussion facilitated by the Project Manager, Smart City Business Program.
- 5. ADOPTION OF ITEMS NOT REQUIRING SEPARATE DISCUSSION
- 6. CONSIDERATION OF ITEMS REQUIRING SEPARATE DISCUSSION
- 7. NEW BUSINESS
- 8. ADJOURNMENT



SMART CITY TASK FORCE

2021 SCHEDULE OF MEETINGS

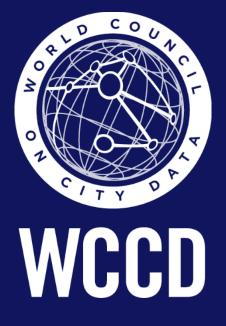
All meetings are Electronic using the Microsoft Teams platform, due to COVID-19 pandemic restrictions.

Friday, March 5, 2021 @ 9:00 a.m.

Wednesday, April 21, 2021 @ 1:00 p.m.

Tuesday, June 22, 2021 @ 8:30 a.m.

September 14, 2021 @ 9:00 a.m.



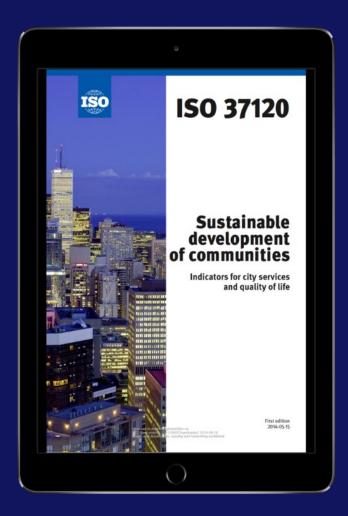
http://www.dataforcities.org/ Twitter: @WCCityData Facebook: WCCityData THE WORLD COUNCIL ON CITY DATA

City Data Supporting Vaughan's Smart City Task Force

Patricia McCarney President and CEO

James Patava Vice President

Page 3 December 1, 2020 Communication : C1 Smart City Task Force December 1, 2020 Item # 2



ISO 37120

The **1st** ISO Standard for cities

WCCD is implementing this global first in over *100 cities* across 35 countries



ISO 37120



104 indicators





WCCD CERTIFICATION LEVELS







CITY OF VAUGHAN WCCD ISO 37120 PLATINUM CERTIFICATION THE HIGHEST LEVEL OF CERTIFICATION







WORLD COUNCIL ON CITY DATA



WORLD COUNCIL ON CITY DATA

THE WCCD ISO FAMILY OF STANDARDS THE ISO 37120 SERIES

SUSTAINABLE DEVELOPMENT OF COMMUNITIES

ISO 37120 Indicators for City Services & Quality of Life

ISO 37122 Indicators for Smart Cities ISO 37123 Indicators for Resilient Cities



WORLD COUNCIL ON CITY DATA

ECONOMY

ISO 37120 Sustainable Cities

- City's unemployment rate
- Assessed value of commercial and industrial properties as a percentage of total assessed value of all properties
- Percentage of persons in full-time employment
- Youth unemployment rate
- Number of businesses per 100 000 population
- Number of new patents per 100 000 population per year
- Annual number of visitor stays (overnight) per 100 000 population
- Commercial air connectivity (number of non-stop commercial air destinations)
- Average household income (USD)
- Annual inflation rate based on the average of the last 5 years
- City product per capita (USD)

ISO 37122 Smart Cities

- Percentage of service contracts providing city services which contain an open data policy
- Survival rate of new businesses per 100 000 population
- Percentage of the labour force employed in occupations in the Information and Communications Technology (ICT) sector
- Percentage of the labour force employed in occupations in the Education and Research & Development sectors

ISO 37123 Resilient Cities

- Historical disaster losses as a percentage of city product
- Average annual disaster loss as a percentage of city product
- Percentage of properties with insurance coverage for high-risk hazards
- Percentage of total insured value to total value at risk within the city
- Employment concentration
- Percentage of the workforce in informal employment
- Average household disposable income (USD)



WORLD COUNCIL

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ENVIRONMENT AND CLIMATE CHANGE

ISO 37120 Sustainable Cities

- Fine particulate matter (PM2.5) concentration
- Particulate matter (PM10) concentration
- Greenhouse gas emissions measured in tonnes per capita
- Percentage of areas designated for natural protection
- NO2 (nitrogen dioxide) concentration
- SO2 (sulphur dioxide) concentration
- O3 (ozone) concentration
- Noise pollution
- Percentage change in number of native species

ISO 37122 Smart Cities

- Percentage of buildings built or refurbished within the last 5 years in conformity with green building principles
- Number of real-time remote air quality monitoring stations per square kilometre
- Percentage of public buildings equipped for monitoring indoor air quality

ISO 37123 Resilient Cities

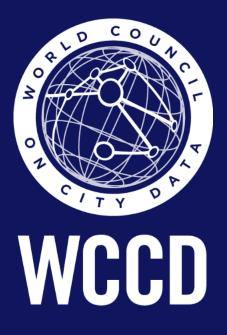
- Magnitude of urban heat island effects (atmospheric)
- Percentage of natural areas within the city that have undergone ecological evaluation for their protective services
- Territory undergoing ecosystem restoration as a percentage of total city area
- Annual frequency of extreme rainfall events
- Annual frequency of extreme heat events
- Annual frequency of extreme cold events
- Annual frequency of flood events
- Percentage of city land area covered by tree canopy
- Percentage of city surface area covered with high-albedo materials contributing to the mitigation of urban heat islands



The WCCD and ISO 37120 Indicators help to:

- ✓ Create Data-driven Municipalities and incentivize performance
- Inform and Direct Federal Spending Across The Country
- Showcase the impact of Federal spending to citizens and communities across the country
- ✓ Drive Job Creation And Economic Development
- ✓ Track progress by cities on our climate agenda
- ✓ Embrace the United Nations SDGs at a local level





Vaughan in a Global Context – Celebrating Successes

CITY OF VAUGHAN DATA DRIVEN INSIGHTS



EX-

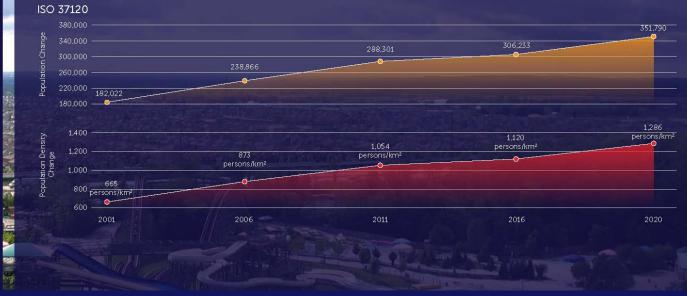
VAUGHAN CITY HALL

A SALES

VAUGHAN: EMBRACING URBAN GROWTH

A TRAJECTORY OF SUSTAINABLE GROWTH

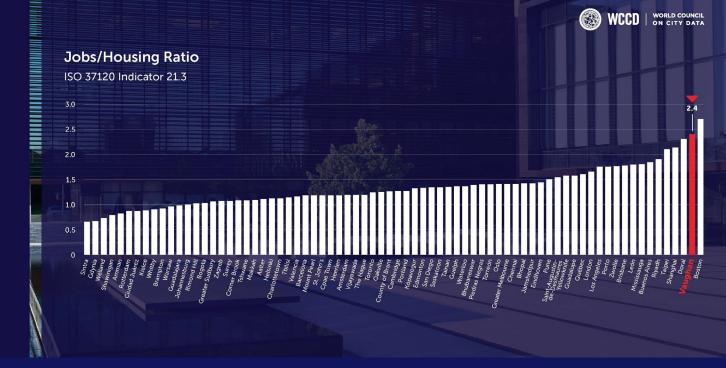




VAUGHAN: EMBRACING URBAN GROWTH

PLANNING AND DESIGN FOR A SUSTAINABLE FUTURE

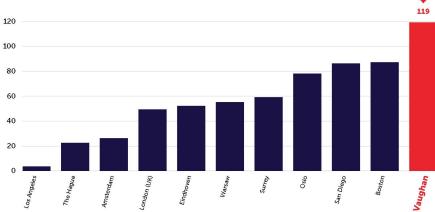
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Kilometres of Light Passenger Public Transport System per 100 000 Population ISO 37120 Profile Data



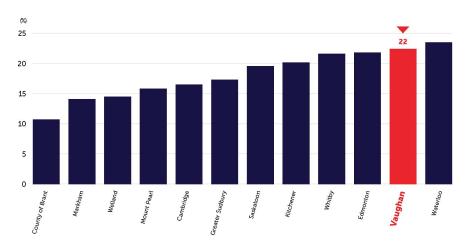


VAUGHAN: SUPPORTING TRANSPORTATION AND MOBILITY

A CANADIAN LEADER IN RESPONSIBLE COMMUTING

П

Percentage of Commuters Using A Travel Mode to Work Other Than a Personal Vehicle ISO 37120 Indicator 19.3



VAUGHAN

A LEADER IN ENVIRONMENTAL STEWARDSHIP



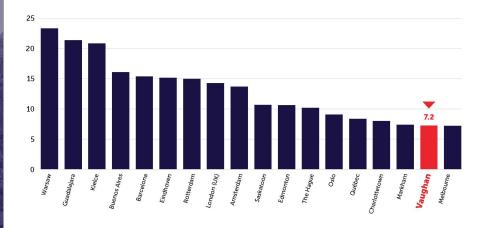


VAUGHAN: A LEADER IN ENVIRONMENTAL STEWARDSHIP

CELEBRATING AIR QUALITY

Fine Particulate Matter (PM2.5) Concentration

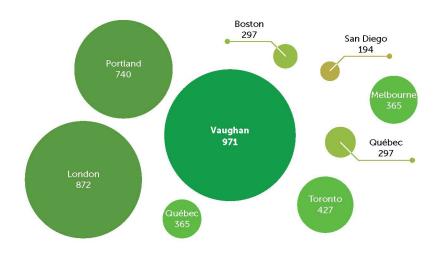
ISO 37120 Indicator 8.1





VAUGHAN: A LEADER IN ENVIRONMENTAL STEWARDSHIP

ACCESS TO URBAN NATURE FOR ALL Green Area (hectares) per 100 000 Population ISO 37120 Indicator 21.1



VAUGHAN

ENCOURAGING PROSPERITY



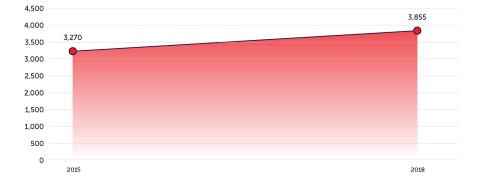


WORLD COUNCIL ON CITY DATA

VAUGHAN: ENCOURAGE PROSPERITY SUPPORTING ENTREPRENEURIALISM

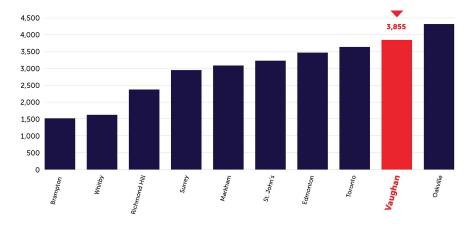
Number of Businesses per 100 000 Population - Trend

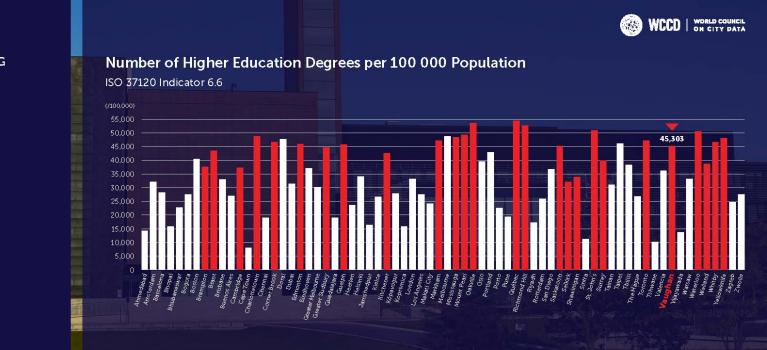
ISO 37120 Indicator 5.5



Number of Businesses per 100 000 Population

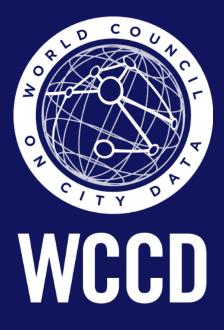
ISO 37120 Indicator 5.5





VAUGHAN: ENCOURAGING PROSPERITY

A HIGHLY QUALIFIED WORKFORCE



Harnessing WCCD Data to Support Vaughan's TERM OF COUNCIL STRATEGIC PRIORITIES



Transportation and Mobility

Strategic Goal Statement: To be a fully connected and integrated community, the City will undertake initiatives to improve the municipal road network, support the development of transit and increase cycling and pedestrian infrastructure.

Objectives:

- Improve local road network
- Support regional transportation initiatives
- Advance active transportation



Objective: Advance Active Transportation

Vaughan In a Canadian Perspective

ISO 37120 Indicator 19.4 Kilometers of Bicycle Paths and Lanes per 100,000 population



🕘 Canada





Objective: Advance Active Transportation

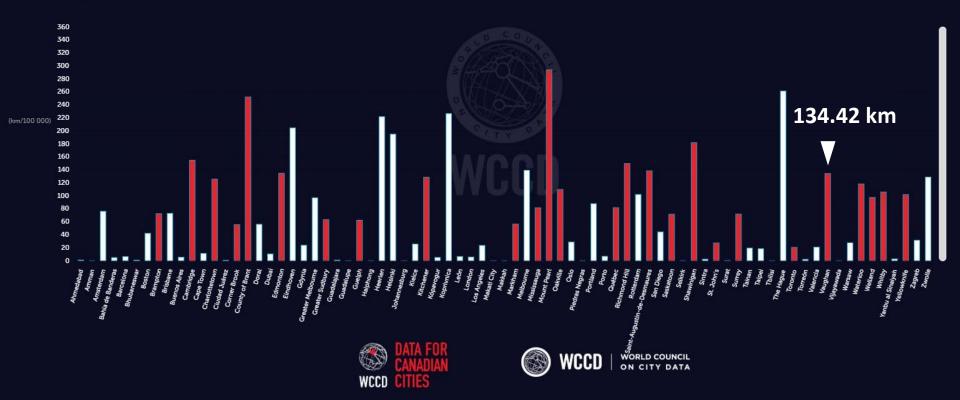


Vaughan In a Global Perspective

ISO 37120 Indicator 19.4 Kilometers of Bicycle Paths and Lanes per 100,000 population

Kilometres of bicycle paths and lanes per 100 000 population







Environmental Stewardship

Strategic Goal Statement: To protect the environment and foster a sustainable future, the City will act as a steward to preserve the natural environment by encompassing principles of environmental protection into our social and economic initiatives.

Objectives:

- · Protect and respect our environment
- · Proactive environmental management
- · Build the low-carbon economy and a resilient city



Objectives:

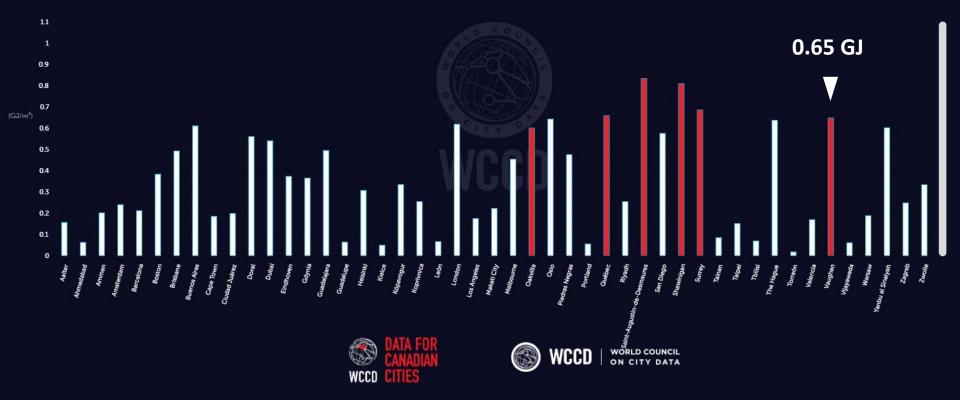
Protect and respect our environment Proactive environmental management



Vaughan In a Global Perspective

ISO 37120 Profile Data – Energy (Electricity) Consumption of Public Buildings Per Year

Energy (electricity) consumption of public buildings per year ISO 37120 Profile Data



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Active, Safe and Diverse Communities

Strategic Goal Statement: To ensure the safety and well-being of citizens, the City will commit to engagement and cohesiveness by supporting and promoting community events, arts, culture, heritage, sports and fire prevention awareness.

Objectives:

- · Enhance community well-being
- · Enrich our communities
- · Maintain safety in our community





Enhance community well being Maintain safety in our community

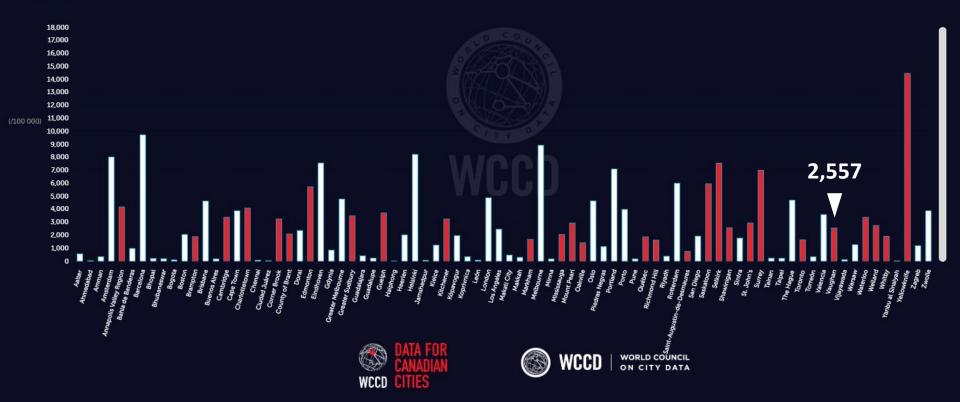


Vaughan In a Global Perspective

ISO 37120 Indicator 15.8 – Crimes against property per 100,000 population

Crimes against property per 100 000 population





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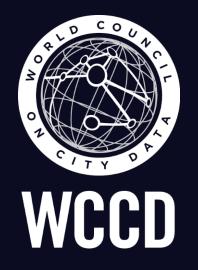
Enhance community well being Maintain safety in our community



Vaughan In a Canadian Perspective

ISO 37120 Indicator 15.8 Data – Crimes against property per 100,000 population





Economic Prosperity, Investment and Social Capital

Strategic Goal Statement: To ensure Vaughan continues to be the place to be, the City will undertake initiatives to ignite economic prosperity and social capital, and celebrate Vaughan as an entrepreneurial city and the gateway to economic activity in the Greater Toronto Area, Ontario and Canada.

Objectives:

- · Advance economic opportunities
- Attract new investments
- · Enable a climate for job creation





Advance economic opportunities Attract new investments Enable a climate for job creation



Vaughan In a Canadian Perspective

ISO 37120 Indicator 5.1 – City's unemployment rate



Objectives:

Advance economic opportunities Attract new investments Enable a climate for job creation



Vaughan In a Canadian Perspective

ISO 37120 Indicator 5.5 – Number of businesses per 100,000 population





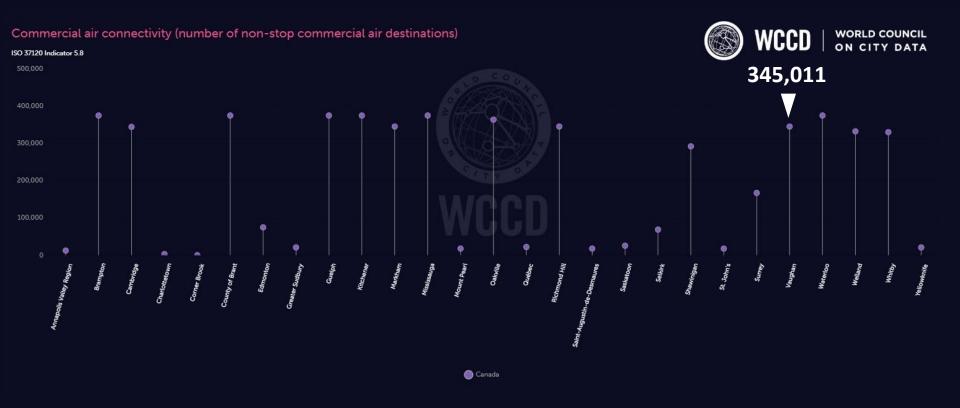


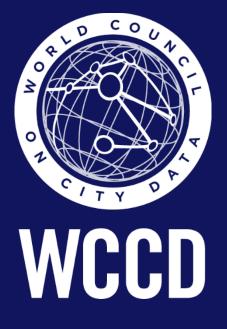
Advance economic opportunities Attract new investments Enable a climate for job creation



Vaughan In a Canadian Perspective

ISO 37120 Indicator 5.8 – Commercial Air Connectivity (number of non-stop commercial air destinations)





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