

WORLD COUNCIL ON CITY DATA



WCCD
ISO 37120

CITYNET



CITYNET-WCCD ISO 37120 PILOT PROGRAM

Information for Cities



WCCD | WORLD COUNCIL ON CITY DATA

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STANDARDIZED
DATA

DATA
INSPIRED
GOALS

DATA
INFORMED
TARGETS

DATA
DRIVEN
RESULTS

SMART

SUSTAINABLE

FUTURE FOR CITIES

RESILIENT

PROSPEROUS



WORLD COUNCIL ON CITY DATA

THE WORLD COUNCIL ON CITY DATA CREATED BY CITIES FOR CITIES

Using standardised data to build a smart, sustainable, resilient and prosperous future for cities.

As the preeminent leader on city metrics, the WCCD strives for excellence in the calibre and quality of its data as the home of the Global Cities Registry™ for ISO 37120.

WCCD Certification and Registration for ISO 37120 enables cities to participate in the WCCD Open City Data Portal for comparative data analytics and informed decision making.



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GLOBAL CITIES REGISTRY™

The WCCD Global Cities Registry™ (GCR) is the internationally recognized list of cities that are committed to sustainability and improved city governance through open data. The GCR recognizes cities that are dedicated to building more inclusive, prosperous, sustainable, smart, and resilient futures. Cities in the GCR are certified in accordance with ISO 37120 – the first international standard on city indicators – by having reported third party verified data.



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CITYNET-WCCD PARTNERSHIP



CityNet and the WCCD signed a new partnership agreement at the 33rd CityNet Executive Committee Meeting and International Seminar in Sidoarjo, Indonesia (October 2015)



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CITYNET-WCCD PARTNERSHIP

- This partnership is driving global action to develop and promote the use of standardized city performance indicators as a key platform for enabling cities in the Asia-Pacific Region to become more sustainable, resilient, prosperous and inclusive.
- The first major initiative of the partnership is the ISO 37120 Pilot Program.



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ISO 37120 PILOT OBJECTIVES

1. ISO 37120 implementation
2. Lesson learning and guidance for future ISO standards development
3. Promoting the value of standardized and verified data
4. Promoting the exchange of knowledge and solutions for cities in Asia



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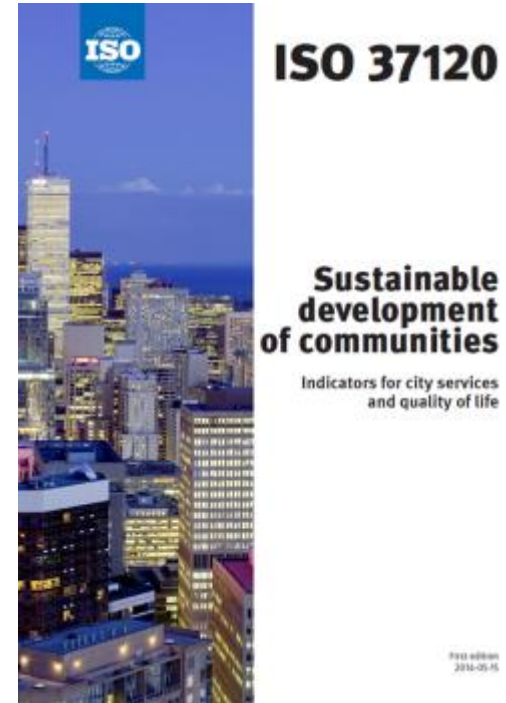
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ISO 37120 - SUSTAINABLE DEVELOPMENT OF COMMUNITIES - INDICATORS FOR CITY SERVICES AND QUALITY OF LIFE

ISO 37120 was published in May 2014 by the International Organization for Standardisation (ISO).

ISO 31720 defines and establishes methodologies for a comprehensive set of indicators that will enable any sized city to track and measure its social, economic, and environmental performance in relation to other cities.



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ISO 37120

Sustainable development of communities

Indicators for city services and quality of life

First edition
2014-05-15

The WCCD has created the first certification program and Global Cities Registry™ for ISO 37120



Manage

Manage and make informed decisions through data analysis



Benchmark

Foster comparative learning with other cities locally and internationally



Investment and Creditworthiness

Leverage funding and demonstrate responsible management practices to attract investment and improve creditworthiness



Sustainability Planning

Plan and establish new frameworks for sustainable urban development and resilience



Monitoring and Evaluation

Monitor the impact of infrastructure projects and city programming

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ISO 37120 – INDICATORS FOR CITY SERVICES AND QUALITY OF LIFE

ISO 37120 includes **100** indicators (46 core and 54 supporting), which are structured around the following **17** themes:



Economy



Governance



Telecommunications



Education



Health



Transportation



Energy



Recreation



Urban Planning



Environment



Safety



Wastewater



Finance



Shelter



Water & Sanitation



Fire & Emergency Response



Solid Waste



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ISO 37120 INDICATORS

Theme	Core Indicator	Supporting Indicator
ECONOMY	<ul style="list-style-type: none"> City's unemployment rate Assessed value of commercial and industrial properties as a % of total assessed value of all properties % of city population living in poverty 	<ul style="list-style-type: none"> % 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
EDUCATION	<ul style="list-style-type: none"> % of female school-aged population enrolled in schools % of students completing primary education: survival rate % of students completing secondary education: survival rate Primary education student/teacher ratio 	<ul style="list-style-type: none"> % of male school-aged population enrolled in schools % of school-aged population enrolled in schools Number of higher education degrees per 100 000 population
ENERGY	<ul style="list-style-type: none"> Total residential electrical energy use per capita (kWh/year) % of city population with authorized electrical service Energy consumption of public buildings per year (kWh/ m²) % of total energy derived from renewable sources, as a share of the city's total energy consumption 	<ul style="list-style-type: none"> Total electrical energy use per capita (kWh/year) Average number of electrical interruptions per customer per year Average length of electrical interruptions
ENVIRONMENT	<ul style="list-style-type: none"> Fine particulate matter (PM2.5) concentration Particulate matter (PM10) concentration Greenhouse gas emissions measured in tonnes per capita 	<ul style="list-style-type: none"> Nitrogen dioxide (NO₂) concentration Sulphur dioxide (SO₂) concentration Ozone (O₃) concentration Noise pollution % change in number of native species



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ISO 37120 INDICATORS

Theme	Core Indicator	Supporting Indicator
FINANCE	<ul style="list-style-type: none"> Debt Service ratio (debt service expenditure as a % of a municipality's own-source revenue) 	<ul style="list-style-type: none"> Capital spending as a percentage of total expenditures Own-source revenue as a percentage of total revenues Tax collected as a percentage of tax billed
FIRE AND EMERGENCY RESPONSE	<ul style="list-style-type: none"> Number of firefighters per 100 000 population Numbers of fire related deaths per 100 000 population Number of disaster related deaths per 100 000 population 	<ul style="list-style-type: none"> Number of volunteer and part-time firefighter per 100 000 population Response time for emergency response services from initial call Response time for fire department from initial calls
GOVERNANCE	<ul style="list-style-type: none"> Voter participation in last municipal election (as % of eligible voters) Women as a % of total elected to city-level office 	<ul style="list-style-type: none"> % of women employed in the city government workforce Number of convictions for corruption and/or bribery by city officials per 100 000 population Citizen's representation: number of local officials elected to office per 100 000 population Number of registered voters as a % of the voting age population
HEALTH	<ul style="list-style-type: none"> Average life expectancy Number of in-patient hospital beds per 100 000 population Number of physicians per 100 000 population Under age five mortality per 1 000 live births 	<ul style="list-style-type: none"> Number of nursing and midwifery personnel per 100 000 population Number of mental health practitioners per 100 000 population Suicide rate per 100 000 population



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ISO 37120 INDICATORS

Theme	Core Indicator	Supporting Indicator
RECREATION		<ul style="list-style-type: none"> • Square meters of public indoor recreation space per capita • Square meters of public outdoor recreation space per capita
SAFETY	<ul style="list-style-type: none"> • Number of police officers per 100 000 population • Number of homicides per 100 000 population 	<ul style="list-style-type: none"> • Crimes against property per 100 000 • Response time for police department from initial call • Violent crime rate per 100 000 population
SHELTER	<ul style="list-style-type: none"> • % of city population living in slums 	<ul style="list-style-type: none"> • Number of homeless per 100 000 population • Percentage of households that exist without registered legal titles
SOLID WASTE	<ul style="list-style-type: none"> • % of city population with regular waste collection (residential) • Total collected municipal solid waste per capita per year • % of the city's solid waste that is recycled 	<ul style="list-style-type: none"> • % of the city's solid waste that is disposed of in a sanitary landfill • % of the city's solid waste that is disposed of in an incinerator • % of the city's solid waste that is burned openly • % of the city's solid waste that is disposed of in an open dump • % of the city's solid waste that is disposed of by other means • Hazardous Waste Generation per capita (tonnes) • % of the city's hazardous waste that is recycled
TELECOMMUNICATIONS AND INNOVATION	<ul style="list-style-type: none"> • Number of internet connections per 100 000 population • Number of cell phone connections 	<ul style="list-style-type: none"> • Number of landline phone connections per 100 000 population



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ISO 37120 INDICATORS

Theme	Core Indicator	Supporting Indicator
TRANSPORTATION	<ul style="list-style-type: none"> • Km of high capacity public transport system per 100 000 population • Km of light passenger public transport system per 100 000 population • Annual number of public transport trips per capita • Number of personal automobiles per capita 	<ul style="list-style-type: none"> • Percentage of commuters using a travel mode other than a personal vehicle • Number of two-wheel motorized vehicles per capita • Km of bicycle paths and lanes per 100 000 population • Transportation fatalities per 100 000 population • Commercial air connectivity (number of non-stop commercial air destinations)
URBAN PLANNING	<ul style="list-style-type: none"> • Green area (hectares) per 100 000 population 	<ul style="list-style-type: none"> • Annual number of trees planted • Areal size of informal settlements as a percentage of city area • Jobs/housing ratio
WASTEWATER	<ul style="list-style-type: none"> • % of city population served by wastewater collection • % of the city's wastewater that has received no treatment • % of the city's wastewater receiving primary treatment • % of the city's wastewater receiving secondary treatment • % of the city's wastewater receiving tertiary treatment 	
WATER AND SANITATION	<ul style="list-style-type: none"> • % of city population with potable water supply service • % of city population with sustainable access to an improved water source • % of population with access to improved sanitation • Total domestic water consumption per capita (litres/day) 	<ul style="list-style-type: none"> • Total water consumption per capita (litres/day) • Average annual hours of water service interruption per household • % of water loss (unaccounted for water)



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WCCD CERTIFICATION LEVELS

WCCD certification levels are based on the number of indicators reported by the city. The WCCD offers a wide range of certification levels.

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ASPIRATIONAL	BRONZE	SILVER	GOLD	PLATINUM
30-45 Core Indicators	46-59 Indicators (46 Core + 0-13 Supporting)	60-75 Indicators (46 Core + 14-29 Supporting)	76-90 Indicators (46 Core + 30-44 Supporting)	91-100 Indicators (46 Core + 45-54 Supporting)



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WCCD GLOBAL CITIES REGISTRY™

Once certified, cities will receive an official WCCD Certificate, be entered into the WCCD Global Cities Registry™, and have access to the WCCD Open City Data Portal.



The first 20 certified cities for ISO 37120 meeting in London, UK. The WCCD is now inviting cities of all sizes to become ISO 37120 certified.



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BENEFITS OF THE WCCD GLOBAL CITIES REGISTRY™

Joining the WCCD Global Cities Registry™ enables cities to:



- ✓ Improve transparency and accountability with open data and foster sound decision-making



- ✓ Identify common management issues and themes, and learn and share solutions and informed practices with cities internationally



- ✓ Access the WCCD Cities Portal for data reporting and more in-depth data monitoring, visualization and comparison capabilities



- ✓ Participate in City summits, roundtables, webinars, and other exclusive WCCD events and activities



- ✓ Measure performance against other WCCD cities and showcase city strengths



- ✓ Receive WCCD publications and reports



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WCCD FOUNDATION AND ISO 37120 CERTIFIED CITIES



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WCCD OPEN CITY DATA PORTAL



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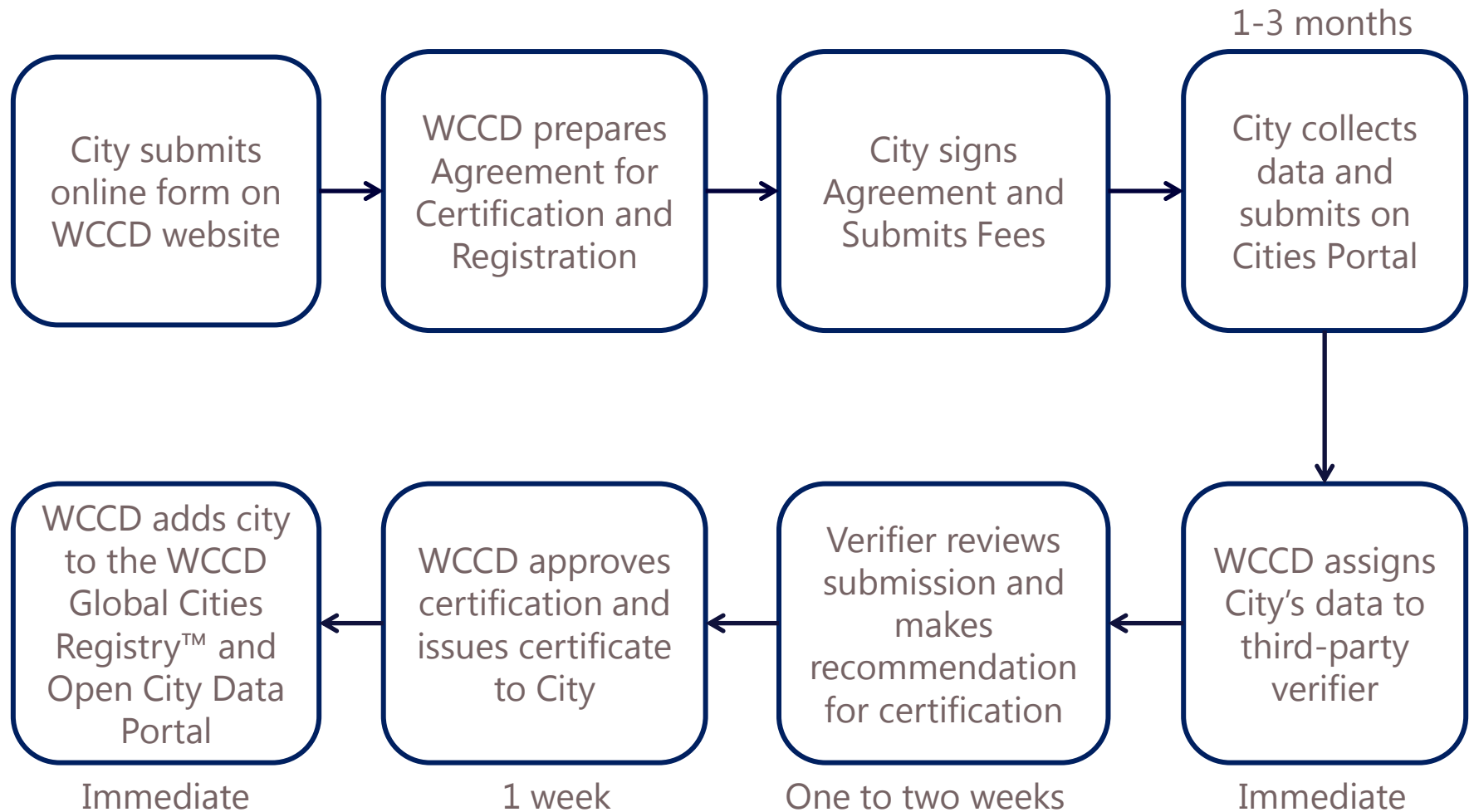
World Council on City Data
Created by Cities for Cities



**THE FIRST ISO
CERTIFIED OPEN
CITY DATA**

www.dataforcities.org

THE CERTIFICATION PROCESS



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CITYNET-WCCD PILOT PROGRAM

The WCCD is subsidizing the fees for the CityNet-WCCD Pilot Program to reflect the in-kind contributions of cities in joining the program.

The subsidized rate for cities participating in this pilot is **\$4,950 USD** for at least the first 3 years.

The fees cover the cost of third-party professional verification to confirm that data has been reported in conformance with ISO 37120 and certification costs needed to be a part of the WCCD Global Cities Registry™. The independent verification process is essential for:

- demonstrating compliance with ISO 37120
- ensuring absolute comparability of data (a critical deficiency of most city performance comparisons)



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WCCD FEES AND SERVICES

VERIFICATION & CERTIFICATION:

The WCCD Annual Certification Fee goes towards data verification and certification. The verification of ISO 37120 reported data is a comprehensive process done by third party verifiers to ensure data quality and integrity. The verifiers provide independent confirmation that a city's data is reported in accordance with the methodologies from the ISO 37120 standard and that the data is reliable.

GLOBAL CITIES REGISTRY™:

Once certified, cities will be included in the WCCD Global Cities Registry™. The WCCD Annual Registration Fee goes towards the WCCD's verification assessment as well as the development and maintenance of the WCCD Global Cities Registry™. The WCCD Global Cities Registry™ provides a comprehensive list of all cities reporting on ISO 37120 that have been verified and certified. Two copies of the certificates will be issued upon the WCCD's review of the verifiers' assessment. Additional copies of the certificate can be purchased from the WCCD for USD \$50.00 per copy plus shipping and handling.

WCCD CITIES PORTAL AND WCCD OPEN CITY DATA PORTAL:

The WCCD Annual Registration Fee supports maintenance of the WCCD Website, WCCD Cities Portal, and WCCD Open City Data Portal for ISO 37120. The Fee also supports the development and provision of website tools (e.g. indices, projections, and trends), reports, training sessions, webinars, roundtables, and other programs for cities.

Once cities are certified and entered into the WCCD Global Cities Registry™, cities will have enhanced access to the WCCD Cities Portal, which is separate from the public WCCD Open City Data Portal. The WCCD Cities Portal gives cities access to the online workbook for data entry, the ability to download more detailed data, and more in-depth data monitoring and comparison capabilities. Cities will also have access to an interactive city profile page that will allow cities to highlight and share information and data that are important to their city.

WCCD GLOBAL CITIES SUMMIT AND EVENTS:

The WCCD Annual Registration Fee also supports the coordination of international meetings and events. Cities will be invited to participate in the WCCD Global Cities Summit scheduled for 2016 in Dubai, UAE. Cities will also be invited to participate in related WCCD events and activities.



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WHAT ARE MAYORS SAYING?



BOSTON, USA

"We welcome the opportunity to contribute to this influential partnership that is helping to shape how cities across the globe use and share data...We rely on good data to inform a lot of what we do in city government, and the chance to share best practices with such a diverse group of international cities is very exciting."

MAYOR MARTY WALSH

City of Boston, USA

"Makati's proactive approach in pursuing sustainable development serves as its guidepost in designing and implementing innovative plans and programs that would address its needs as a highly urbanized city...Being part of the WCCD, with its groundbreaking ISO 37120 standard provides us added leverage to align our program thrusts with modern standardized indicators."

JEJOMAR ERWIN S. BINAY JR.

Mayor (2010-2015), City of Makati, Philippines

MAKATI, PHILIPPINES



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WHAT ARE CITIES SAYING?



TORONTO, CANADA

"Having an internationally standardised methodology to measure city performance allows the City of Toronto to share its better practices in service delivery, learn from other global cities, rank its results relative to those cities, and address common challenges through more informed decision making."

JOE PENNACHETTI

City Manager (2008-2015), City of Toronto, Canada

"Here in London, we really welcome joining the WCCD. There's never been a time where it's been more important to understand how we as a global city compare with other cities...We can learn from them and actually use data so we can address challenges facing all of our cities."

ANDREW COLLINGE

Assistant Director of Intelligence, Greater London Authority, UK

LONDON, UK



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WHAT ARE CITIES SAYING?



DUBAI, UAE

"The WCCD provides a platform for many cities to compare and to learn from each other for benchmarking and knowledge sharing purposes."

AISHA MIRAN

Assistant Secretary General, Executive Council of Dubai,
United Arab Emirates

MINNA, NIGERIA



"To us in Minna, this is an important milestone in city management...The presence or absence of information on an indicator is in itself an indication of the adequacy of basic services in a city."

DR. ABDUL HUSAINI

General Manager, Niger State GIS, Minna, Nigeria



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WCCD'S NETWORK OF GLOBAL PARTNERS



PHILIPS



SIEMENS



CITYNET



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Check out the WCCD Open City Data Portal [here](#)



Check out the 2 minute WCCD video on our [homepage!](#)



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