

THE WORLD COUNCIL ON CITY DATA

City data for low carbon development

Nico Tillie, Director European Office of the World Council on City Data & Urbanism, TU Delft Rotterdam 21th of June 2018

http://www.dataforcities.org/

Twitter: @WCCityData

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Cities and the Challenges of Data



ISO 37120

World Council on City Data

It is about improving. How do you perform, challenges, targets, actions? Knowing where to invest



For this you need standardised globall comparable city data,

comparing apples to apples third part verified data feedback on our score...

CITY S	ORE	1.21	TOSAY
EXCEEDING (MEXICOS VEEK)	WEEK	MONTH	QUARTER
HOMICIDES L'TRENDI	2.78	4.10	2.98
SHOOTINGS (TREND)	2.21	2.08	2.34
LIBRARY USERS	1.72	1.65	1.64
PART CRIMES	1.50	1.31	1.30
BFD INCIDENTS	1.25	1.25	1.19
FOLLOW-UP IMENIOR WIDE			
IND RESPONSE TIME			
STREETLIGHT ON-TIME II.			
POTHOLE ON-TIME 16			
SIGN INSTALLATION ON-TIME IS			
PARKS MAINTENANCE ON-TIME 15			
	1.20	1.29	1.27





The **first** ISO standard for cities.

ISO 37120

100 Indicators



1 themes

- Economy
- **Education**
- Energy
- Environment
- Finance

- **Governance**
- Health
- Recreation
- Safety
- Shelter
- Solid Waste

- Telecommunications
- Transportation
- Urban Planning
- Wastewater
- Water & Sanitation
- h Fire & Emergency Response





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 +

WCCD CERTIFICATION LEVELS

ISO 37120

ISO 37120 ISO 37120

ISO 37120

ISO 37120



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

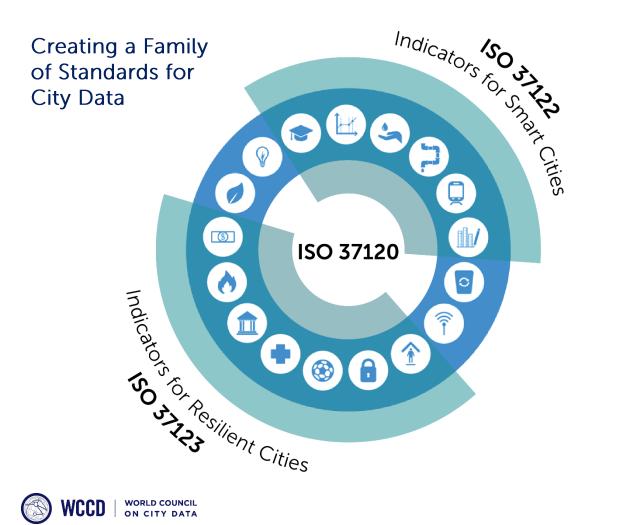


WCCD ISO 37120 CERTIFIED CITIES





MEMBERS - 255 CITIES ACROSS 82 COUNTRIES









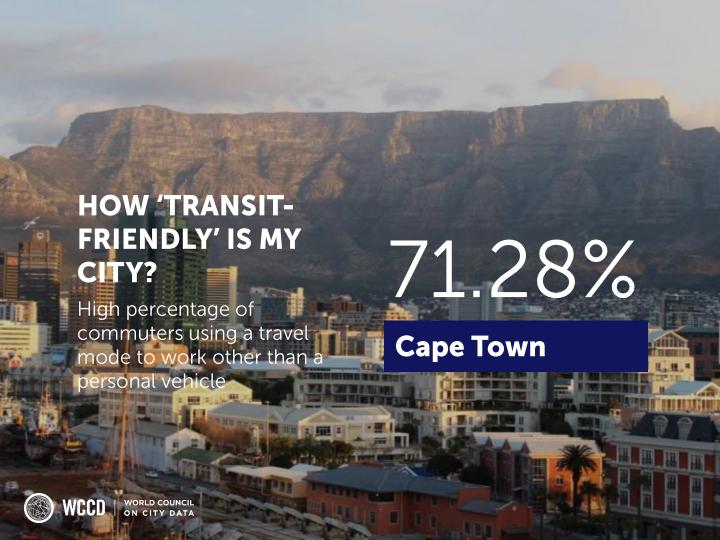


Percentage of women employed in the city government workforce

41.87%

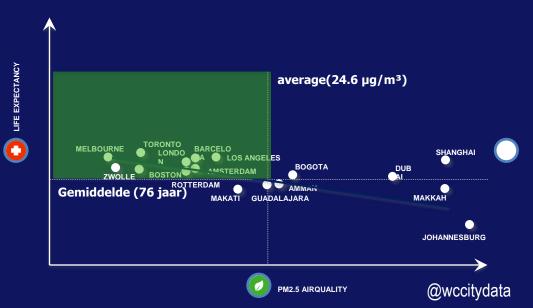
Minna





DATA PLATFORM FOR ANALYTICS, EXPLORING RELATIONS WITH 100 DATA POINTS

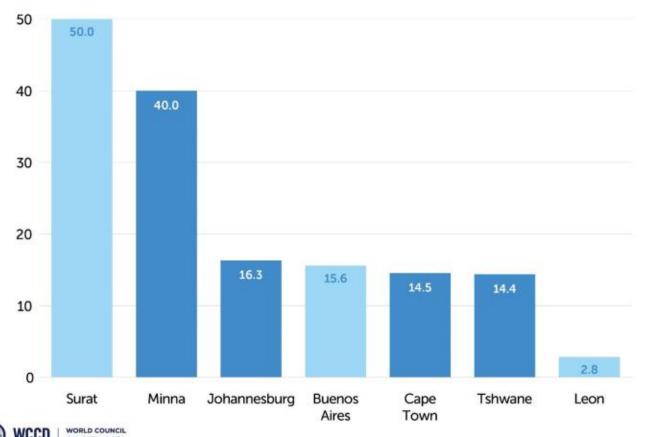






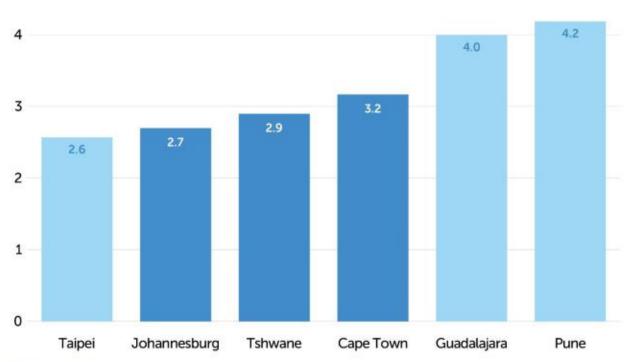
EXPLORING WCCD ISO 37120 DATA IN AFRICAN CITIES

ISO 37120 Indicator 9.2: Capital spending as a percentage of total expenditures



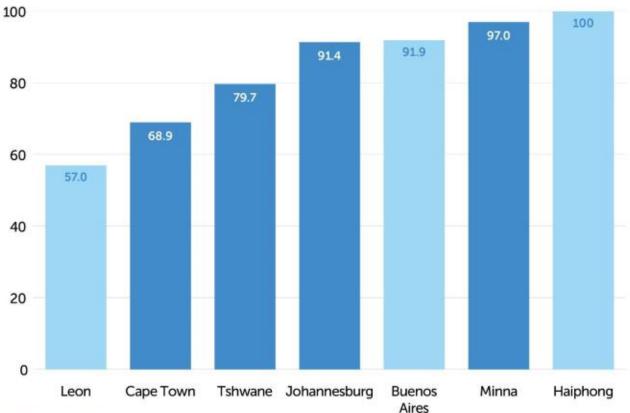
ISO 37120 Indicator 4.28: Persons per unit

5



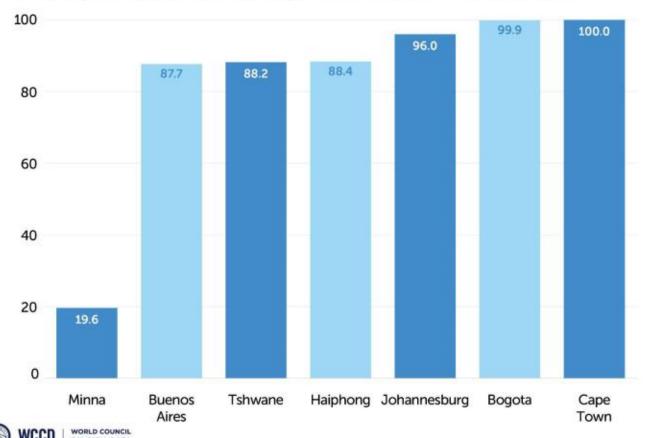


ISO 37120 Indicator 7.2: Percentage of city population with authorized electrical service

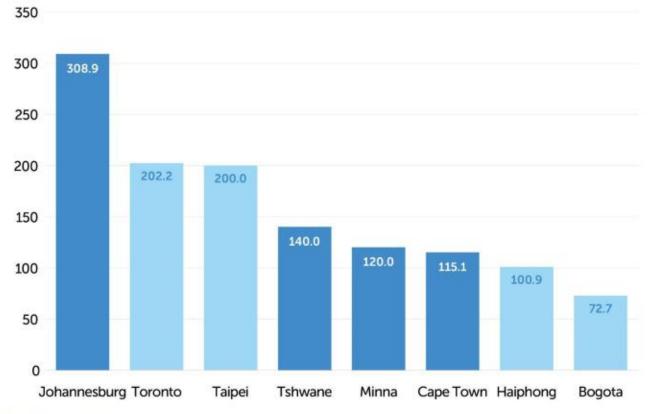




ISO 37120 Indicator 16.1: Percentage of city population with regular solid waste collection (residential)



ISO 37120 Indicator 21.4: Total domestic water consumption per capita (litres/day)







ISO 37120



38.5% OF TOTAL ELECTED CITY-LEVEL OFFICIALS ARE WOMEN HOW DID JOHANNESBURG ACHIEVE THIS?



THE INCLUSION OF WOMEN IN CITY GOVERNMENT

Johannesburg is a strong performer in the inclusion of women in city government, with one of the highest percentages of women elected to municipal government. The City of Johannesburg's Women's Development Strategy was first drawn up in 2005 as part of a renewed drive to promote the development and inclusion of women in the highest echelons of decisionmaking. Women's participation in government has been fostered by policies that promote gender inclusion in a wide range of areas:

INCLUSION ACROSS DIFFERENT AREAS

The City of Johannesburg approved a **Gender Policy Framework** in 2013, its gender mainstreaming programme will be fully incorporated in the Growth and Development Strategy and Integrated Development Plan. The City of Johannesburg continues to work with marginalized women groups, while also establishing further partnerships to drive social inclusion across civil society and business. **Policies seek to encourage women's self-empowerment**, improve the economic status of women through skills development and training, alleviate poverty and increase access to improved healthcare and safety. The City is also emphasizing the linkages between different sectors and gender inclusion. For instance, large-scale transport improvement programmes are considered an ideal opportunity for the empowerment of vulnerable women.

GENDER EMPOWERMENT FOR HEALTH

Developing a sense of personal empowerment amongst women – and networks of social support – will support a reduction of major communicable disease and health risks by 2040. HIV, in the short to medium term, will be addressed through dealing with the often-neglected social and psychological contexts that place vulnerable groups such as women at higher risk.

38.5% OF TOTAL ELECTED CITY-LEVEL OFFICIALS ARE WOMEN WHAT DOES THIS MEAN FOR THE PEOPLE OF JOHANNESBURG?



WCCD INDICATORS AS A TOOL FOR BENCHMARKING AND MONITORING

INDICATORS ARE ONE OF THE KEY ELEMENTS OF JOHANNESBURG'S 2040 STRATEGY PLAN, as the measures through which the City plans to assess progress against its desired outcomes. A number of WCCD indicators have been selected and reorganized into the 2040 Strategy's four pillars (Economic Growth, Human and Social Develore, Sustainable Services, and Governance). WCCD indicators will therefore be instrumental in reviewing the strategy and tracking its progress. Women as a percentage of total elected to city-level office is one of the WCCD indicators included in the Governance cluster.

"Africa urgently needs to industrialize"

...To make this happen, we need investments in infrastructure. At the African Development Bank, we are talking about using aid to massively leverage private capital to fund Africa's development"



Akinwumi Adesina, President, African Development Bank, May 7th 2018



WCCD ISO 37120 DATA CAN HELP

CITY DATA FOR INFRASTRUCTURE INVESTMENT

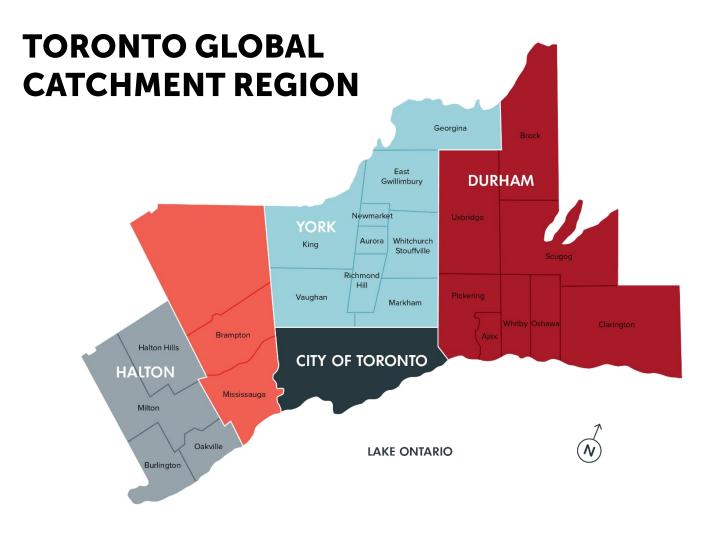
A. Pre-Investment Support: Building a Robust
 Baseline for Evidence Based Decision Making

B. Post-Investment Support: Measuring Infrastructure Investment Impact Across Ontario and Canada



TORONTO REGION RESPONSE TO AMAZON HOZ REP







To harness standardised, globally comparable, city data as essential to tackling global, national and local agendas

WCCD Announces the Launch of Local Data Hubs Around the World at the United Nations

Thursday, 20 July 2017 - \$6-40 KW ORC/1913, Foundation Orbox, Partnerstays, Press; Releases, SDEs. #6.7 comments.



Location of the first WCCD Local Data Hubs to be hosted in WCCD, ISO 37120 certified cities throughout the world.

On Monday, July 17th, the WCCD was in New York at the United Nations, participating in Local2030 – Hubs for Sustainability Solutions. At this event, organised by the Executive Office of the UN Secretary General, the WCCD announced the establishment of eight, "Local Data Hubs" around the world to harness standardised, globally comparable, city data as essential to tackling global, national and local agendas.

WCCD LOCAL DATA HUBS SUPPORTING DATA FOR AFRICAN CITIES

MINNA .

DUBAL



WCCD

WORLD COUNCIL

THE DUBAI DECLARATION 2017

A Committee Cop Storage the Unioned Language

- INCLUSIVE CITIES
- SMART NATIONS
- # A SUSTAINABLE PLANET

Dataforcities org/outs/-decisioner

JOHANNESBURG

WCCD CEO and Governor of Niger State sign MOU to establish the Minna-WCCD Local Data Hub

Minday, 31 Adv 2017 - #CATAFORCITIES Blog Foundation Offices Local Data Hobs, Partnerships, SDBs - No comments



Patricia McCarney (front row, left) signs the MOU towards the establishment of the WCCD-Minna Local Data Hub with Professor Abdul Husaini (front row right), alongside His Excellency Abubakar Sani Bello, the Governor of Niger State, Nigeria (second row, second from left), the Nigerian Consul General (second row, third from left) and members of his Cabinet at the Nigerian Mission to the United Nations in New York:

On Friday, July 28th, the WCCD President and CEO, Dr. Patricia McCarney, was in New York to sign the initial MOU towards establishing the Minna-WCCD Local Data Hub with His Excellency Abubakar Sani Bello, the Governor of Niger State, Nigeria.

The United Nations Sustainable Development Goals - 17 Goals for 2030





































WCCD CITY DATA FOR THE UNITED NATIONS SUSTAINABLE DEVELOPMENT GOALS

2017





















WCCD SUPPORTS THE SDGS

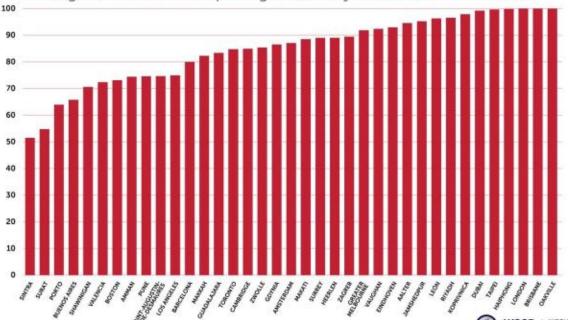


WCCD CITY DATA SUPPORTING SDG 4 – QUALITY EDUCATION

ENSURE THAT ALL COMPLETE QUALITY PRIMARY AND SECONDARY EDUCATION

ISO 37120 Indicator 6.3:

Percentage of students completing secondary education: survival rate

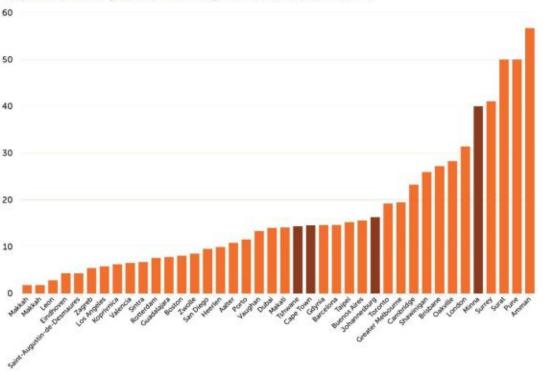


WCCD CITY DATA SUPPORTING SDG 9 – INDUSTRY, INNOVATION AND INFRASTRUCTURE SUPPORT ECONOMIC DEVELOPMENT



ISO 37120 Indicator 9.2:

Capital spending as a percentage of total expenditures

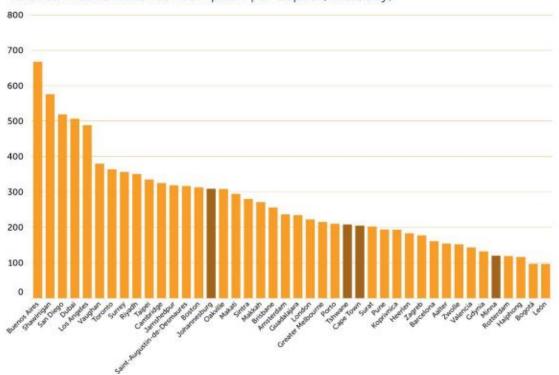


WCCD CITY DATA SUPPORTING SDG 11 – SUSTAINABLE CITIES AND COMMUNITIES ACCESS TO BASIC SERVICES



ISO 37120 Indicator 21.4:

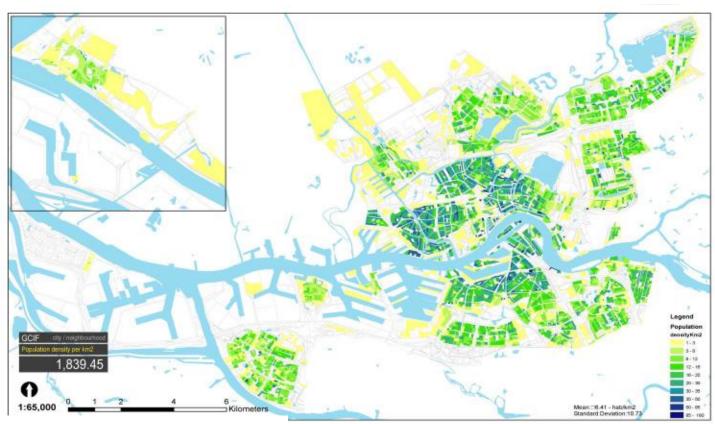
Total domestic water consumption per capita (litres/day)





USING THE DATA: EXAMPLE OF LOCAL USE IN CITIES

A MAP IS EASIER TO READ THAN MANY EXCELL SHEETS



ISO37120 indicator

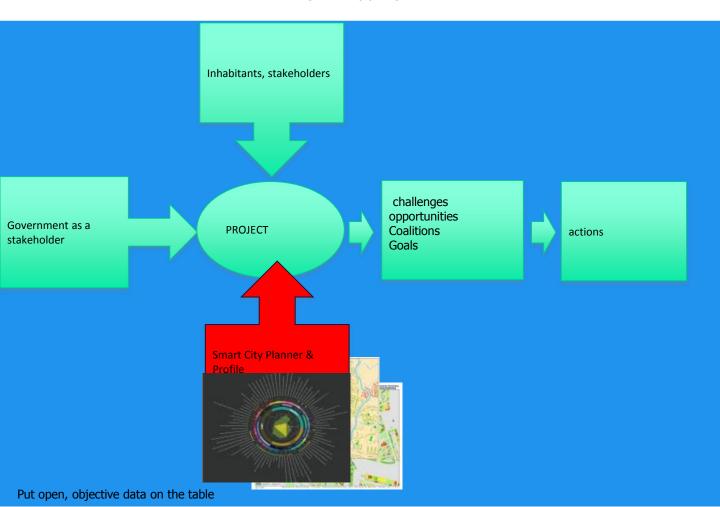
Gemeente Rotterdam dS+V, efd. Ruimtelijke Ordening trainee: Raed Gindeya M. Themes and indicators (orange is threshold)







Facilitate the transition use data and gis mapping



DATA KNOWLEDGE THAT LEADS TO INFORMED INVESTMENT DECISIONS

Waterproblems, recreation shortage, poor public space

Possible solution: watergarden, water square (resilience!)



This leads back to the basic indicators in the standard37120





































NCCD | wor

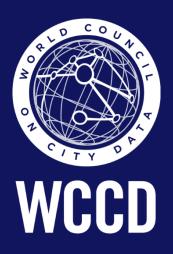
ON CITY DATA

the value of municipal data generated by The World council on City data

DATA THAT IS:

- Globally Standardized (ISO 37120)
- Regularly Reported (Annual Reporting)
- Independent and Third Party Verified (WCCD + Externally Audited)
- Open (Housed on the WCCD Global Open Data Portal)
- Drives informed infrastructure investment
- Pre-requisite for sound investment and smart city development





THE WORLD COUNCIL ON CITY DATA

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Theme	Core Indicator	Supporting Indicator
ECONOMY	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	% 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	% 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	% 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	Total residential electrical energy use per capita (kWh/year) for tity population with authorized electrical service Energy consumption of public buildings per year (kWh/m²) for total energy derived from renewable sources, as a share of the city's total energy consumption	 Total electrical energy use per capita (kWh/year) Average number of electrical interruptions per customer per year Average length of electrical interruptions
ENVIRONMENT	Fine particulate matter (PM2.5) concentration Particulate matter (PM10) concentration Greenhouse gas emissions measured in tonnes per capita	 Nitrogen dioxide (NO₂) concentration Sulphur dioxide (SO₂) concentration Ozone (O₃) concentration Noise pollution % change in number of native species



Theme	Core Indicator	Supporting Indicator
FINANCE	Debt Service ratio (debt service expenditure as a % of a municipality's own-source revenue)	 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	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	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	 Voter participation in last municipal election (as % of eligible voters) Women as a % of total elected to city-level office 	% 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	 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 	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



Theme	Core Indicator	Supporting Indicator
RECREATION		Square meters of public indoor recreation space per capita Square meters of public outdoor recreation space per capita
SAFETY	Number of police officers per 100 000 population Number of homicides per 100 000 population	 Crimes against property per 100 000 Response time for police department from initial call Violent crime rate per 100 000 population
SHELTER	% of city population living in slums	Number of homeless per 100 000 population Percentage of households that exist without registered legal titles
SOLID WASTE	% 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	% 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	Number of internet connections per 100 000 population Number of cell phone connections	Number of landline phone connections per 100 000 population



Theme	Core Indicator	Supporting Indicator
TRANSPORTATION	Kilometres of high capacity public transport system per 100 000 population Kilometres of light passenger public transport system per 100 000 population Annual number of public transport trips per capita Number of personal automobiles per capita	Percentage of commuters using a travel mode other than a personal vehicle Number of two-wheel motorized vehicles per capita Kilometres 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	Green area (hectares) per 100 000 population	 Annual number of trees planted Areal size of informal settlements as a percentage of city area Jobs/housing ratio
WASTEWATER	% 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	6
WATER AND SANITATION	% 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)	Total water consumption per capita (litres/day) Average annual hours of water service interruption per household Mof water loss (unaccounted for water)

