ISO 37120, the WCCD & the new ISO Standard on Smart Cities

Thematic Roundtable and Institute Working Lunch
A Dialogue on Smart Cities in India

June 2015

Matthew Lynch
Global City Indicators Facility/World Council on City Data





MEMBERS - 256 CITIES ACROSS 82 COUNTRIES

Global Cities Institute & Data



Global City Indicators Facility



100 STANDARDIZED INDICATORS

256 MEMBER CITIES



CITY DATA



DATA ANALYTICS



DATA VISUALIZATION



GOVERNANCE



PLANNING & DESIGN



MANAGEMENT





ISO 37120

Sustainable development of communities

Indicators for city services and quality of life

> First edition 2014-05-15

PUBLISHED 2014

The first ISO Standard on Global City Indicators



Manage

and make informed decisions through data analysis



Benchmark

and target



Leverage Funding

with senior levels of government



Plan

and establish new frameworks for sustainable urban development



Evaluate

the impact of infrastructure projects on the overall performance of a city



WCCD WORLD COUNCIL ON CITY DATA



WCCD FOUNDATION PARTNER CITIES

THE FIRST ISO 37120 CERTIFIED CITIES



OPEN DATA PLATFORM

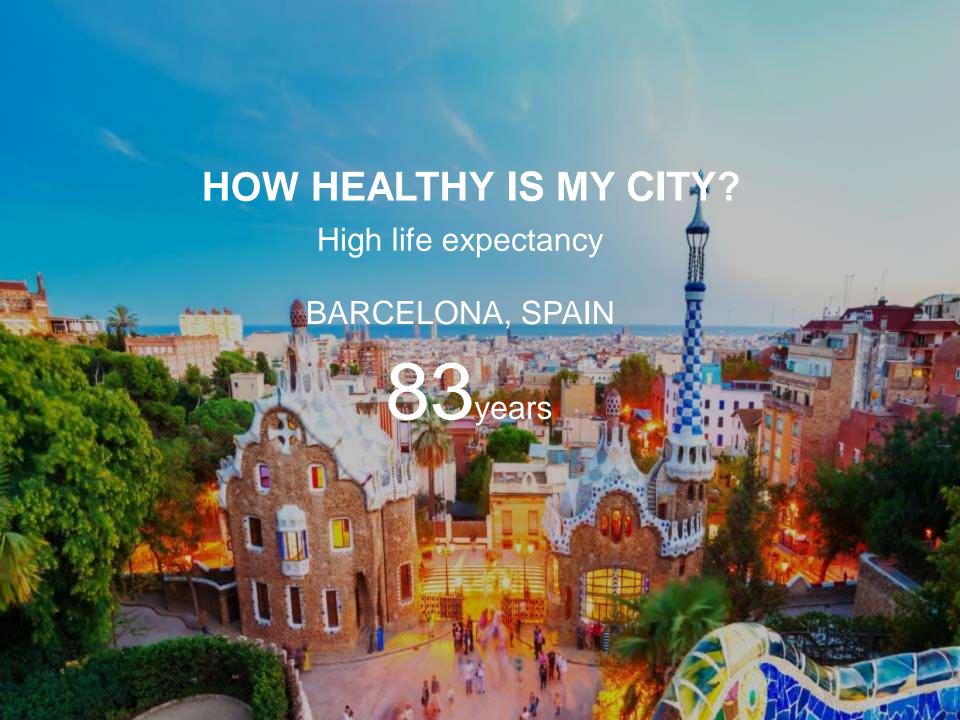




WCCD OPEN DATA PORTAL



CITY DATA FOR ALL





HOW GREEN IS MY CITY?

High area of green space









HOW CLEAN IS MY AIR?

Low O₃ concentration

GUADALAJARA, MEXICO



HOW INNOVATIVE IS MY CITY?

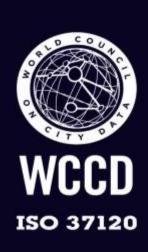
High number of new patents registered per 100,000 population











CITY DATA FOR ALL



EXPLORING THE WCCD OPEN DATA PORTAL: ANALYTICS AND GRAPHING

WWW.DATAFORCITIES.ORG - DATA ANALYTICS



ISO 37120 - 100 INDICATORS ACROSS 17 THEMES





Governance



Telecommunications





Health



Transportation

P Energy



Recreation



Urban Planning





Safety



Wastewater





Shelter



Water & Sanitation



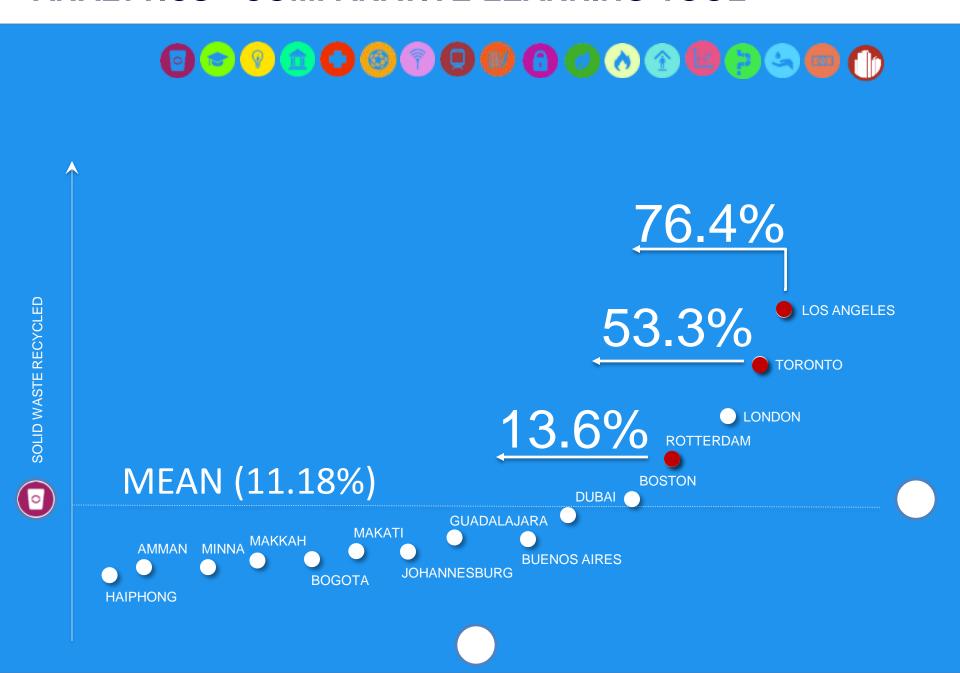


Solid Waste

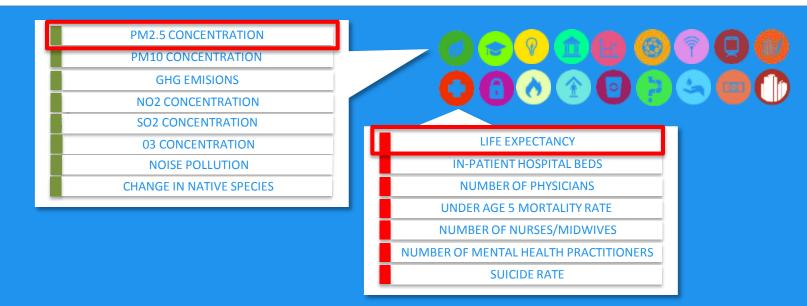
ANALYTICS - COMPARATIVE LEARNING TOOL

RESIDENTIAL SOLID WASTE COLLECTION	DISPOSAL BY BURNING OPENLY	
SOLID WASTE COLLECTED	DISPOSAL BY OPEN DUMP	
SOLID WASTE RECYCLED	DISPOSAL BY OTHER	
DISPOSAL BY LANDFILL	HAZARDOUS WASTE GENERATED	
DISPOSAL BY INCINERATOR	HAZARDOUS WASTE RECYCLED	

ANALYTICS - COMPARATIVE LEARNING TOOL

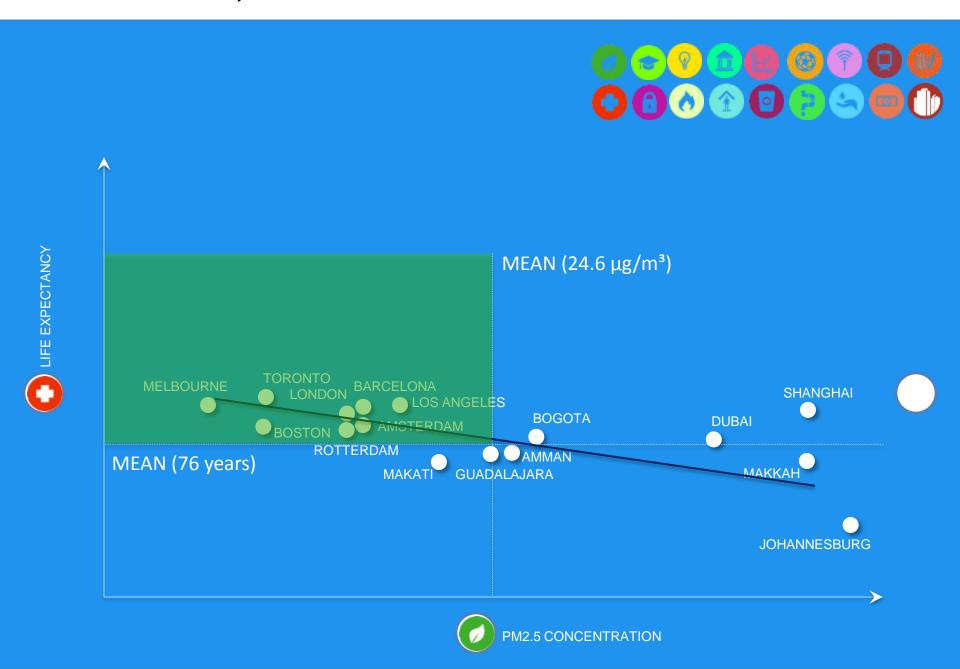


ANALYTICS, EXPLORING RELATIONS WITH 100 DATA POINTS





ANALYTICS, EXPLORING RELATIONS WITH 100 DATA POINTS



WCCD WEB PORTAL – FUTURE DEVELOPMENT

- OPEN DATA PLATFORM
- M ANALYTICS
- : INNOVATION
- INFOGRAPHICS
- APPS
- CITY DIALOGUES

WWW.DATAFORCITIES.ORG



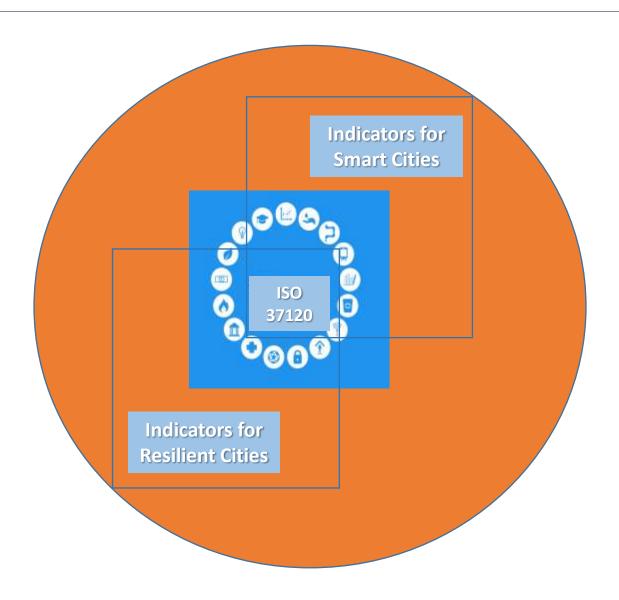
NEXT STEPS AT THE ISO

A new family of ISO Standards on City Indicators

Smart Cities(Approved)

Resilient Cities (ISO 37121)

ISO FAMILY OF STANDARDS





SMART CITIES DEFINITION

ISO Technical Management Board Smart Cities Advisory Group definition of Smart Cities:

A Smart City dramatically increases the pace at which it improves its social economic and environmental (sustainability) outcomes, responding to challenges such as climate change, rapid population growth, and political and economic instability...

...by fundamentally improving how it engages society, how it applies collaborative leadership methods, how it works across disciplines and city systems, and how it uses data information and modern technologies....

... in order to provide better services and quality of life to those in and involved with the city (residents, businesses, visitors), now and for the foreseeable future, without unfair disadvantage of others or degradation of the natural environment.

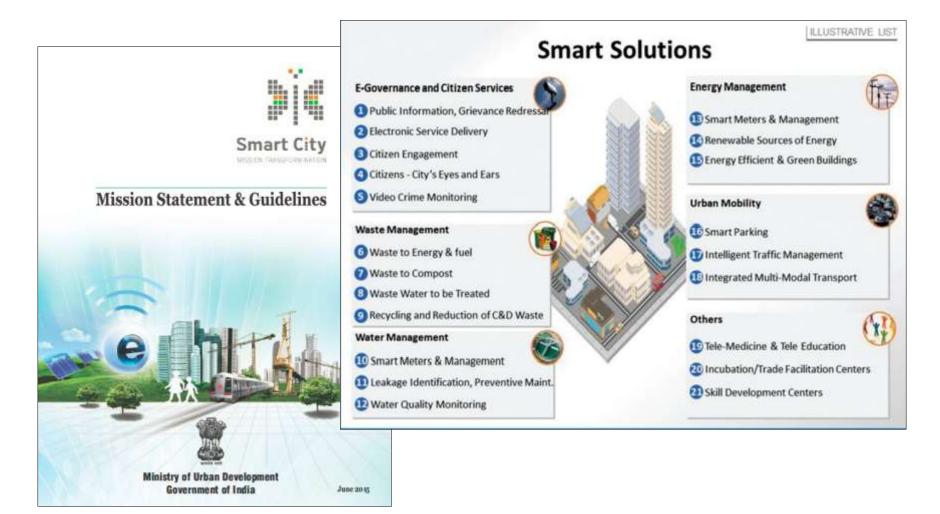


STANDARD PURPOSE

- Will enable cities to work with a standardized set of indicators to measure their performance in the overarching theme of Smart Cities
- Will allow cities to draw comparative lessons from other cities globally
- Will enable cities to share best practices
- Will help cities to innovate and find technological and knowledge base solutions to address their main challenges.



SIGNIFICANT ALIGNMENT: SMART CITIES MISSION





SMART CITIES MISSION: INFRASTRUCTURE & SERVICES

- adequate water supply
- assured electricity supply
- sanitation, including solid waste management
- efficient urban mobility and public transport
- affordable housing, especially for the poor
- IT connectivity and digitalization
- good governance
- sustainable environment
- safety and security of citizens
- health and education





Thank you!

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