

CITY SUSTAINABILITY INDICATORS

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World Bank

Urban Development and Local Government



THE WORLD BANK



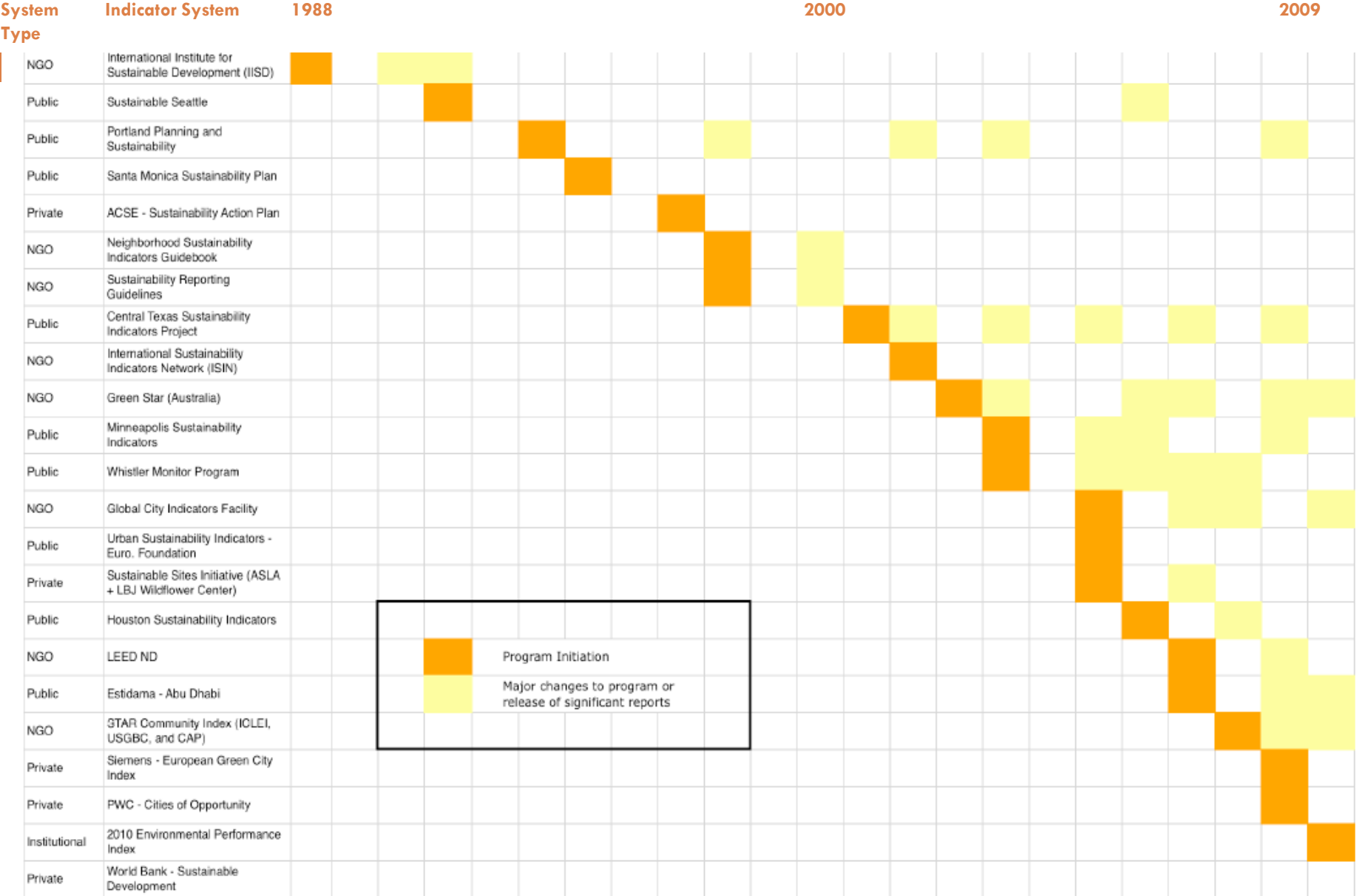
City Sustainability Indicators

Necessary Features

- Harmonize across regions
- Measure baseline performance
- Simple Metrics: Focus on core indicators and basic services
- City-level data that can be aggregated to Metro

* *You can't manage what you can't measure* *

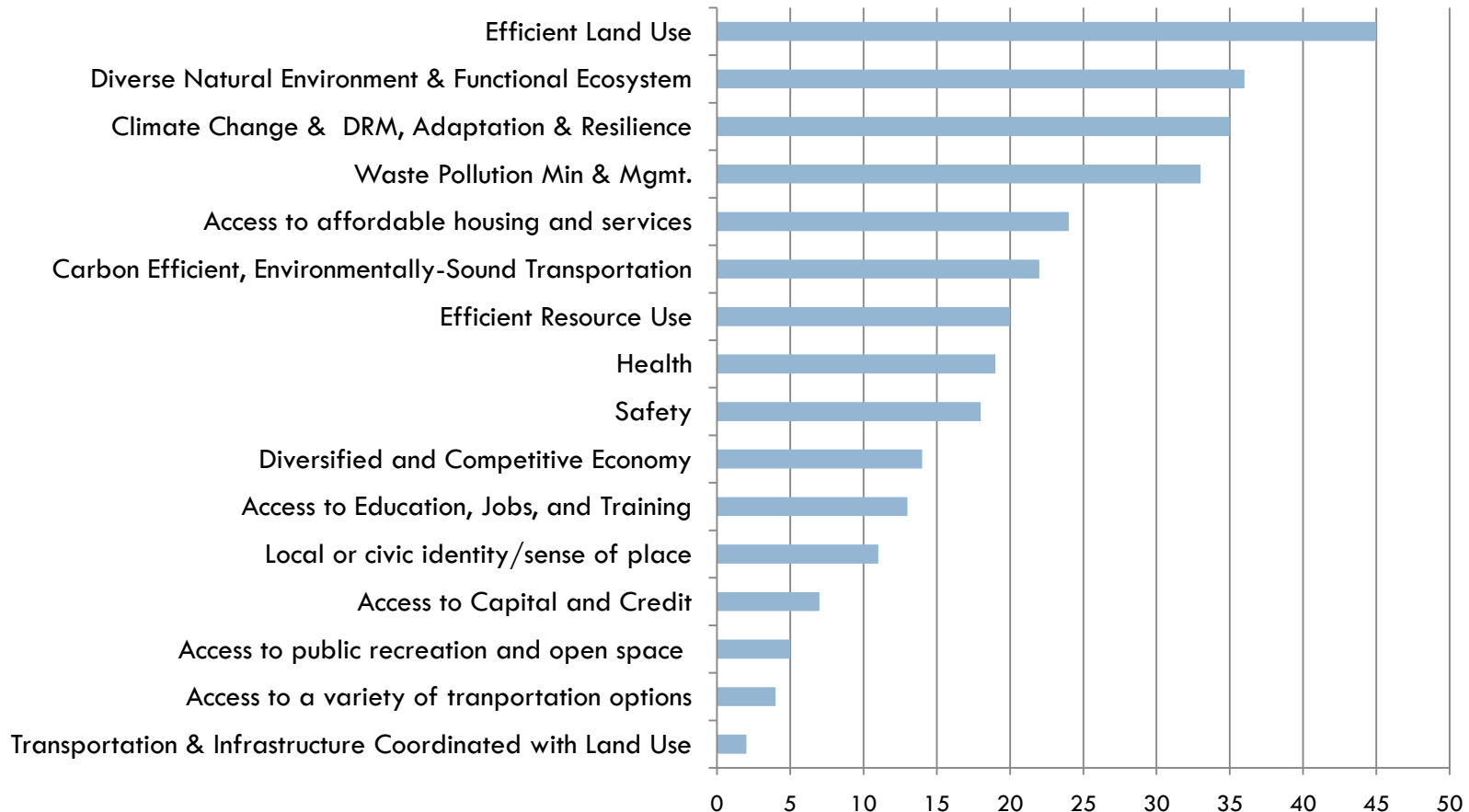
Existing Sustainability Indicator systems



Program Initiation
 Major changes to program or release of significant reports

Review of Sustainability Indicator Systems

Categories covered by Sustainability Indicator Systems Occurrence of Indicators



Global City Indicators Facility

City Sign-Up

GCIF MEMBERSHIP FORM

THE PROGRAM AND ITS PURPOSE

The Global City Indicators Program provides an established set of city indicators with a globally standardized methodology that allows for global comparability of city performance and knowledge sharing. This website serves all cities that become members to measure and report on a core set of indicators through this web-based relational database.

THE INDICATORS

The Program is structured around 22 "themes" that measure a range of city services and quality of life factors.

CITY SERVICES

Education
Energy
Recreation
Fire Emergency
Response
Governance
Health
Social Services
Solid Waste
Transportation
Urban Planning
Waste Water
Water

QUALITY OF LIFE

Civic Engagement
Culture
Economy
Environment
Shelter
Social Equity
Subjective
Well-Being
Technology And
Innovation

For a more complete list of GCIF indicators please refer to the document "GCIF Indicators" in the documents page.

ANNOUNCEMENTS

NEW CITIES - WELCOME

Vaughan Joins



Lisbon Joins



Barcelona Joins



NEW DEVELOPMENTS

UPCOMING EVENTS

Knowledge Cities Conference - March 1-2, 2011 - Al-Madinah Al-Munawwarrah, Kingdom of Saudi Arabia

The GCIF has been invited to speak at a conference on knowledge cities in Saudi Arabia hosted by the Municipality of Al-Madinah Al-Munawwarrah together with the World Bank.

World Health Organization Consultation Meeting on Urban Health Metrics Research - February 23-25, 2010 - Kobe, Japan

The GCIF has been invited by the WHO to present its work on urban health metrics at the WHO Centre for Health Development's meeting on urban health metrics research in Kobe, Japan.

U.S. Department of Housing and Urban Development - February 11, 2011 - Washington, DC, United States

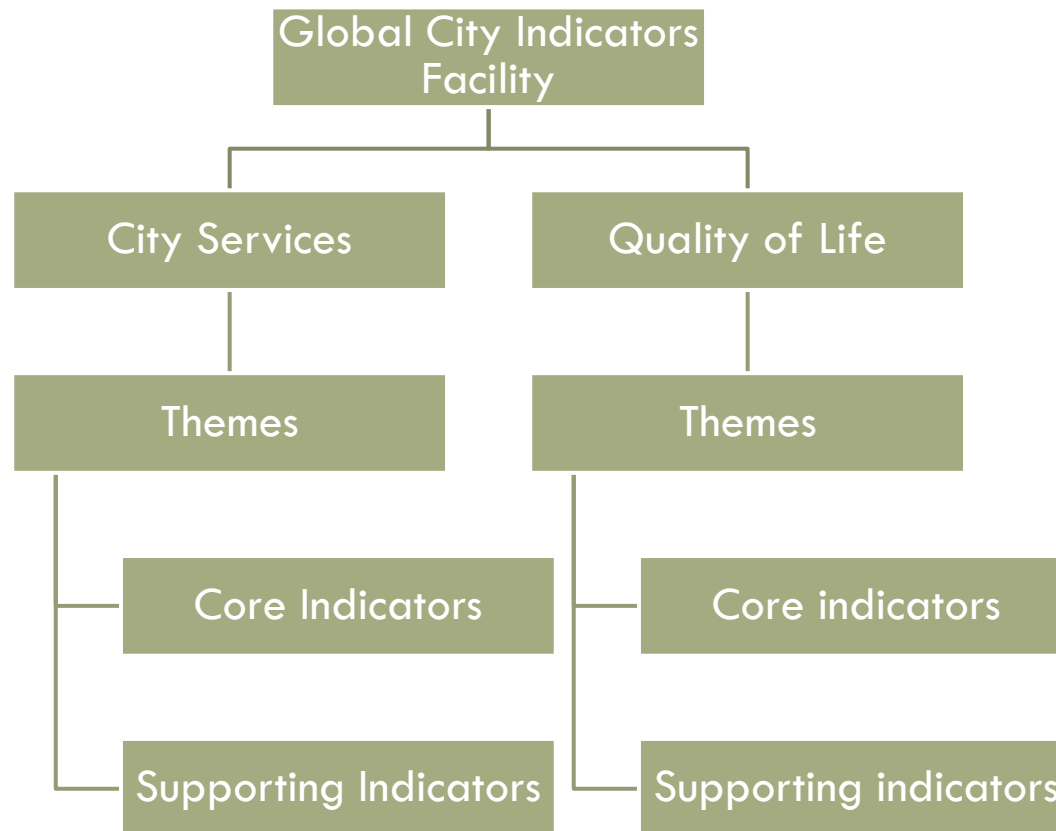
The GCIF has been invited to present our work on the development of a globally standardized set of indicators for cities worldwide as part of a panel hosted by U.S. HUD which includes Ron Sims, Deputy Secretary, HUD, Jessica Rosen Tulodo, USAID, James A. Brooks, National League of Cities and Abha Joshi-Ghani, The World Bank.

OECD Roundtable on Environmental Indicators for Cities - November 29, 2010, Paris

The GCIF has been invited to present its work to the OECD in Paris. The meeting is hosted

Global City Indicators Facility

- Structured around themes organized into two broad categories: city services and quality of life



Global City Indicators Facility

City Services Themes

- Education
- Finance
- Governance
- Recreation
- Social Services
- Transportation
- Wastewater
- Energy
- Fire and Emergency Services
- Health
- Safety
- Solid waste
- Urban Planning
- Water

Global City Indicators Facility

Quality of Life Themes

- Civic Engagement
- Economy
- Shelter
- Subjective Well-Being
- Culture
- Environment
- Social Equity
- Technology and Innovation

The Global City Indicators Facility is structured around “themes” organized into two broad categories, city services and quality of life.

Governance

- Gross Operating Budget [\$]
- Gross Operating Budget per capita [\$]
- Gross Capital Budget [\$]
- Gross Capital Budget per capita [\$]
- Debt service ratio [%]
- Tax collected as a % of tax billed
- Capital spending as % of total expenditures
- Own-source revenue as % of total revenues
- % of women employed in the city government
- Voter participation in last municipal election [%]
- No. of local officials elected to office per 100,000
- Type of government (e.g. Local, Regional, County)

Economy

- City Product per capita [\$]
- GDP per capita [\$]
- % of country’s GDP
- % of country’s population
- Average household income [\$]
- Annual inflation rate (avg. of last 5 years) [%]
- Cost of living [\$]
- Income distribution [GINI Coefficient]
- Total employment
- Annual avg. unemployment rate [%]
- Employment % change since base year
- City unemployment rate [%]
- % of persons in full time employment
- Commercial/Ind. assessment as % of total assess’t
- Number of businesses per 1000 population
- % of city population living in poverty

People

- Total population
- % of population that are children
- % of population that are youth
- % of population that are adults
- % of population that are senior citizens
- Male -Female ratio (# of males per 100 females)
- Population % change since base year (1991)
- Population Dependency Ratio
- [%] of population that are new immigrants
- % of pop. migrating from elsewhere in country

Urban Planning, Shelter and Environment

Land Area

- Population Density [per km²]
- Jobs/housing ratio
- Total number of households
- Total # occupied dwelling units (owned & rented)
- Dwelling density [per km²]
- Persons per unit
- Informal settlements as % of city area
- % of city population living in slums
- No. of households without registered legal titles
- No. of homeless people per 100,000 population
- Green area per 100,000 population [ha]
- % of non-residential area
- Public indoor recreation space per capita [m²]
- Public outdoor recreation space per capita [m²]

Global region

- Climate type
- Average annual temperature [Celsius]
- Average annual rainfall [mm]
- Average annual snowfall [cm]
- PM10 concentration [µ/m³]
- GHG Emissions [tonnes per capita]



City Management and Infrastructure

Electricity

- % of pop. with authorized electrical service
- Total residential electrical use per capita [kW]
- Total electrical use per capita [kW]
- Electrical interruptions per customer [avg. #/yr]
- Avg. length of electrical interruptions [hours]

Waste Management

- % of pop. with regular solid waste collection
- % of solid waste that is recycled
- % of solid waste disposed of in an incinerator
- % of solid waste burned openly
- % of solid waste disposed of in an open dump
- % of solid waste disposed of in a sanitary landfill
- % of solid waste disposed of by other means

Waste Water

- % of population served by wastewater collection
- % of wastewater that has received no treatment
- % of wastewater receiving primary treatment
- % of wastewater receiving secondary treatment
- % of wastewater receiving tertiary treatment

Water

- % of population with potable water supply service
- Domestic water consumption per capita [litres/day]
- % of pop. with sust. access to improved water source
- Total water consumption per capita [litres/day]
- % of water loss
- Water service interruption per household [avg. hrs/yr]

Transportation

- Km of high capacity public transit per 100,000 pop.
- Km of light passenger transit per 100,000 pop.
- Number of personal automobiles per capita
- Annual number of public transit trips per capita
- Number of two-wheel motorized vehicles per capita
- Number of non-stop commercial air destinations
- Transportation fatalities per 100,000 population

Education, Technology and Innovation

Education:

- Student/teacher ratio
- % of children completing primary & secondary ed.
- % of students completing primary education
- % of students completing secondary education
- % of school-aged children enrolled in schools
- % of male children enrolled in schools
- % of female children enrolled in schools

Technology & Innovation

- No. of internet connections per 100,000 pop.
- No. of new patents per 100,000 per year
- % of jobs in the cultural sector
- No. of higher education degrees per 100,000 pop.
- No. of telephones (landlines & cell) per 100,000 pop.
- No. of landline phone connections per 100,000 pop.
- No. of cell phone connections per 100,000 pop.

Health, Safety, and Emergency Response

Health

- No. of in-patient hospital beds per 100,000 pop.
- No. of physicians per 100,000 pop.
- No. of nursing/midwifery personnel per 100,000 pop.
- Average life expectancy
- Under age five mortality per 1,000 live births

Safety

- No. of police officers per 100,000 population
- No. of homicides per 100,000 population
- Violent crime rate per 100,000 population

Fire & Emergency

- No. of firefighters per 100,000 population
- No. of fire related deaths per 100,000 population
- Response time for fire department [minutes]

Global City Indicators Facility

□ Key Features

- City-led – Managed by cities and coordinated by GCIF
- Focuses on cities and city governance
- Provides a network for information sharing
- Cost effective – Free web-based platform and commonly collected indicators
- Includes key stakeholders – Partnerships with international organizations who are also GCIF board members

Toward Standard Sustainability Indicators

- Harmonize across regions
- Simple Metrics: Focus on core indicators and basic services
- Transparent indicators
- Measure baseline performance & update regularly
- City-level data that can be aggregated to Metro

Thank You

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worldbank.org/urban

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