

Sustainable Cities

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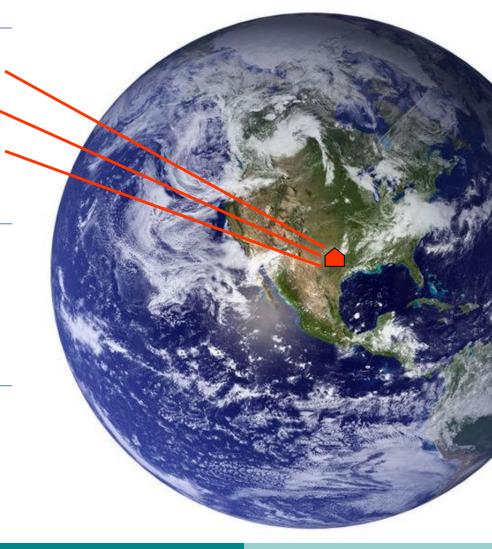
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Cities on the globe

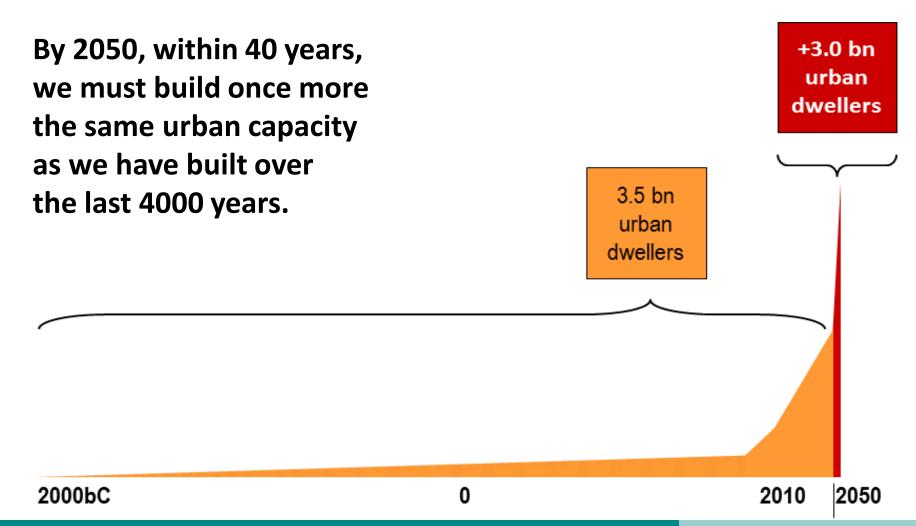
1.2% of the Earth's surface50% of the population75% of energy consumption and CO2 emissions

Hubs of the global economy: 100 largest cities produce 30% of the global GDP

1 Megacity like Beijing is larger than each of the 150 smallest UN member states

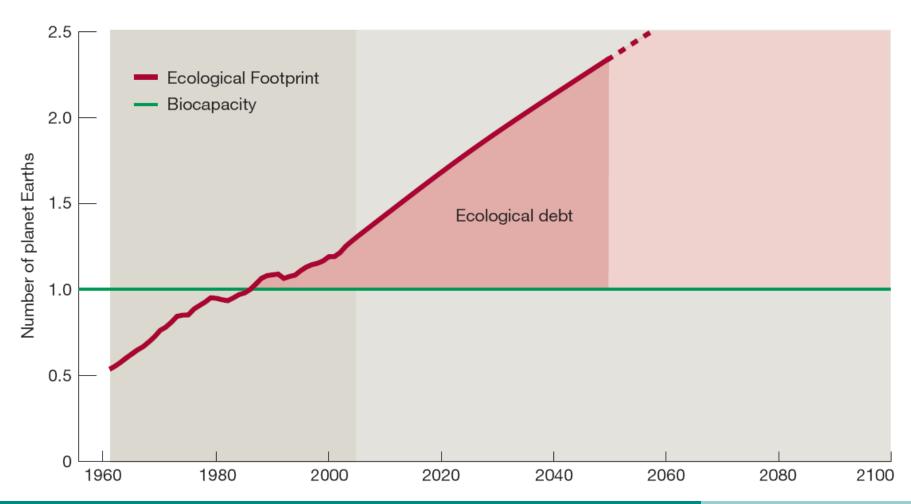


Urbanization: the 1:100 challenge



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Urban lifestyle increases ecological footprint



Urban investment goals

- Sustainable city: integrated sustainability policy and planning
- Healthy & happy community
- Green infrastructure
- Low-carbon city
- Disaster- and climate-resilient city
- Resource-efficient city
- Biodiverse city
- Green urban economy

ICLEI supports cities in each of this fields.

Urban investment

- Huge demand for infrastructure worldwide:
 - Housing
 - Transport
 - Power
 - Water
 - Sewerage
 - **...**
- Retrofit of old cities
- New cities



Investment examples

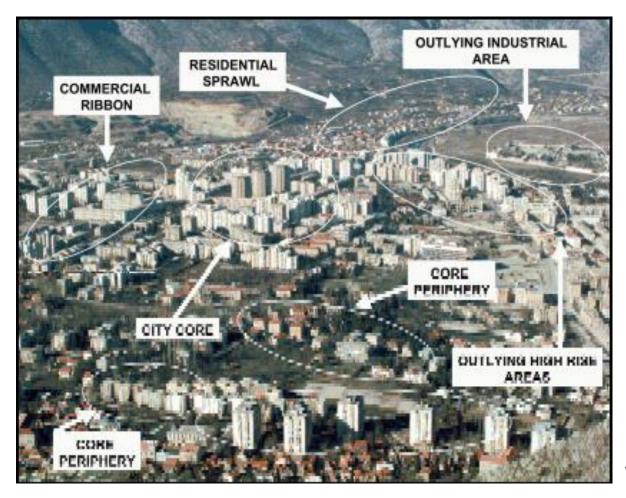
- Local renewables
- Green buildings
- Waste management
- Water & sanitation
- NMT and public transport
- Green fleets
- Ecosystems and parks
- Resilience and risk reduction





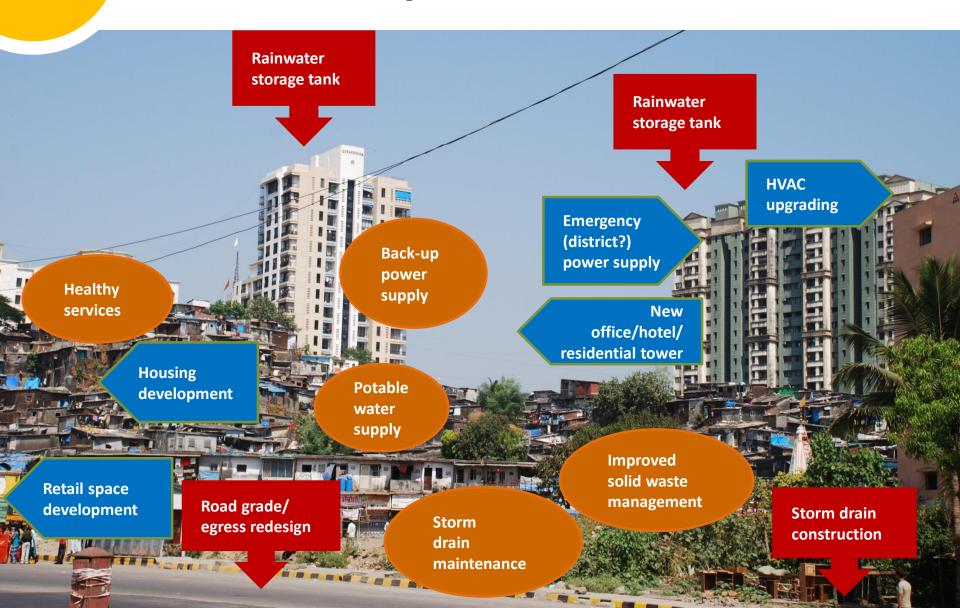


From project focus to «urban area performance»



www.globalsecurity.org

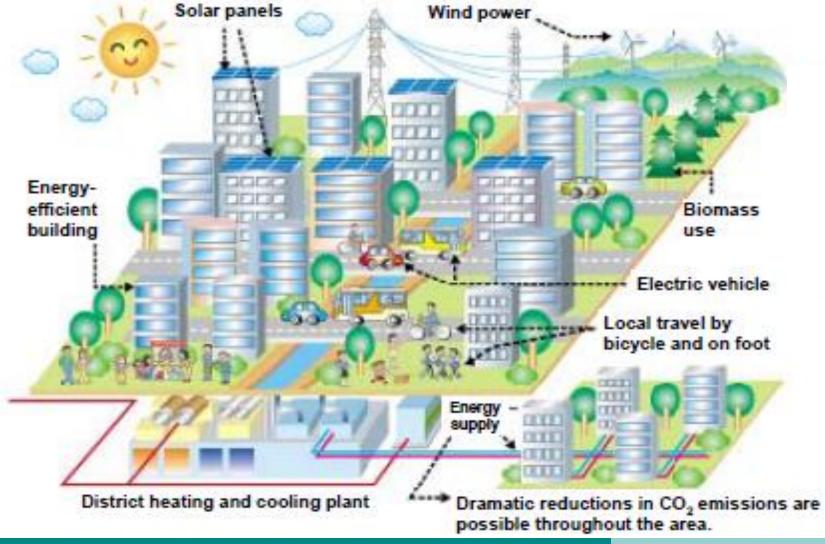
Resilience performance



Transport performance



Energy performance



Intelligent through connections



Governance performance



Who...



... has what mandate and powers

... and which means



... and cooperates with whom

... to fulfil which task

"The city" is no single actor



Fiction: City = Institution = Actor

3 million private households
31 municipalities
1 provincial government
18 utilities
61,000 taxis
67 housing companies
18 Internet provider
383 engineering firms
125 fuel oil distributors
34 bus/tram operators

178 construction companies

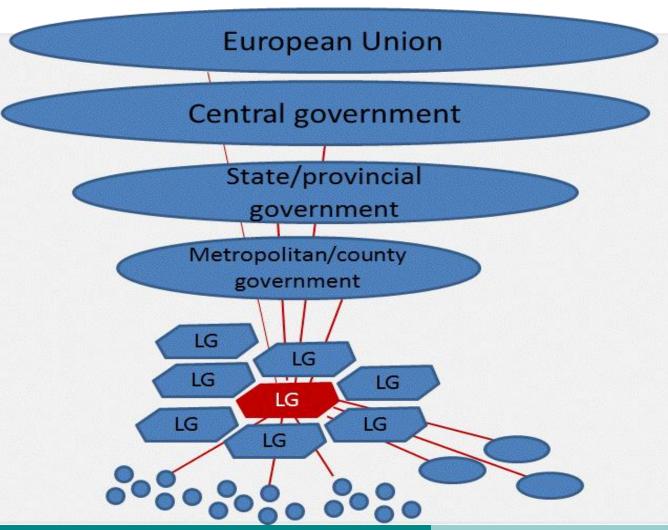
4 million car owners

277 trucking companies

870 kindergardens

Smart governance through connections

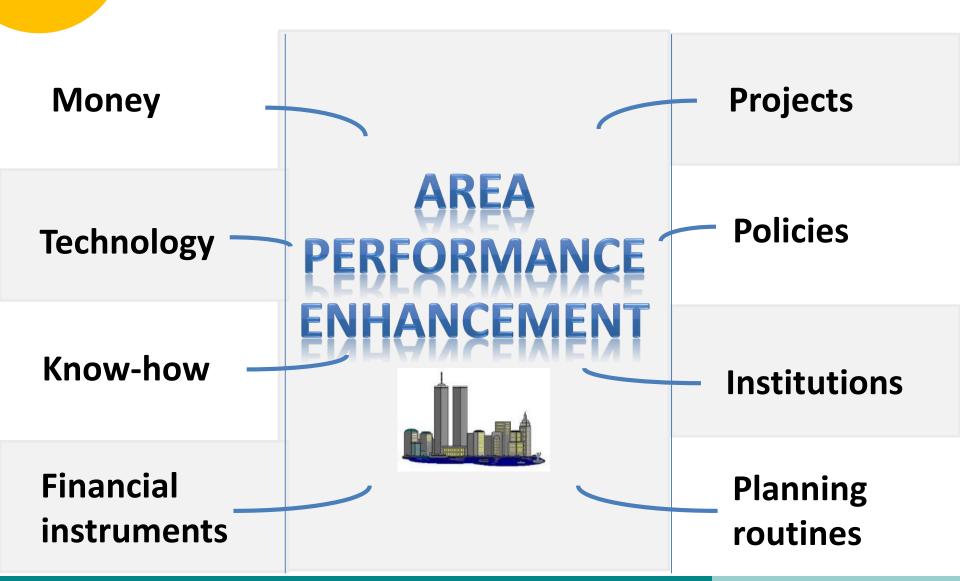




Factors of cities' performance



What's ok, what's needed?



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Needed: city leadership

Individual leadership:

- (a)Tokyo
- (b)Quezon
- (c)...

Collective leadership and up-scaling of initiatives

- (a)ICLEI and other networks
- (b)World Mayors Council
- (c) Mexico City Pact and Durban Adaptation Charter

(A) CO2 Emissions Reduction Program (2000-)

- Voluntary CO2 Emission Reduction Plan to be submitted to Tokyo MPG, and disclosure of plan and results
- Results: average target level: 3-4% of the reduction = not ambitious enough
- TMG collects emission data of target sector which was used to up-grade their measures
- Up-graded to Cap and Trade system

⇒ Up-graded to Cap and Trade system

Target: same as above: approx. 1,340, 1% of all the business entities in Tokyo but 40% of all CO2 emissions from industrial and commercial sectors in Tokyo)

- •Requirement of 6-8% of CO2 reduction in 2010-2014, 17% in 2015-2019
- •Credit:
- Surplus reductions achieved by other targeted facilities
- CO2 reductions achieved by SME in Tokyo
- Renewable energy credits
- •Results in 2009: Targeted facilities had planned to reduce their reductions by 10%. Approx.59% of the facilities can be expected to comply with their reduction obligations

(B) Green Building Program (2002-)

- Target: owners/developers of newly built buildings with over 5,000 m2 total floor area
- •Legal requirement:
- follow TMG green building design guidelines (tailored to Tokyo and higher requirement than national standard)
- submit building plans prior to building permission applications
- disclosure of the plan, rating of the environment quality
- Results: more than 1,300 buildings with improved insulation and use of energy efficient technology and higher grade buildings increased

Success factors:

- Strong leadership of Governor Ishihara to introduce Cap & Trade system, which has not yet been introduced at national level
- Stakeholder involvement and accurate data to convince business sector in order to introduce C & T system
- Advice and guidance by TMG staff
- More appropriate and tailor made than nation-wide unique standard

Replication:

- •15 Japanese LGs require by their ordinance submission of the CO2 reduction plan to business sector, control and disclose the data
- •Some prefectures near Tokyo introduced similar Cap & Trade system
- •Interest shown by Chinese cities, States in Brazil, Singapore etc.

Recognition:

 TMG C&T got Most Groundbreaking Policy Award of World Green Building Council

Leadership example:

Parks and open spaces development program

Initiator and implementation leader:

•City Mayor's Office through the Parks Development and Administration Department

Mayor Herbert Bautista,
Former Mayor Feliciano Belmonte, Jr.



Achievements:

- •Since 2003 recovery and rehabilitation into parks of 111 public open spaces (i.e. 44% of such spaces)
- •Establishment of biodiversity corridors to support wildlife habitats, exchange and migration between biodiversity areas
- •Deterring informal settlers from occupying open spaces as dwelling areas; preventing individuals from using open spaces for personal commercial purposes.
- •La Mesa Ecopark: venue for raising public awareness and for environmental and biodiversity education

Recognition:

City received Galing Pook award 2009

- Success factors / lessons learned
- 1. Leadership commitment. Strong support from previous Mayor was critical in getting program started. Current Mayor is a key advocate for the continuation and further development of the Parks Development Program
- 2. Involvement of city staff. Active involvement and continuity of city development council staff played crucial role in maintaining institutional memory and sustaining momentum
- 3. Development of a clear vision at the beginning of the process, shared by all stakeholders, is key to reaching consensus on operational issues, ensuring successful implementation and increasing the probability of achieving desired impacts.



City leadership: Ahmedabad

Bus Rapid Transit System

•Public Private Partnership (PPP):
Public sector represented by Ahmedabad
Janmarg Limited (AJL), a Special Purpose
Vehicle, chaired by the Municipal
Commissioner



- •Role of AJL: planning of services, selection of operators, monitoring of service quality, fare revisions, coordination with relevant departments and future BRTS expansion plan.
- •System with new technological applications in operation for one year. 90,000 passengers daily. Deployment of 45 diesel buses with commercial speeds greater than 24 kms per hour.

City leadership: Ahmedabad

Awards/Recognition

- Awarded by Ministry of Urban Development as Best Mass
 Transit Project under JNNURM in the year 2008-2009
- •2010 Sustainable Transport Award for visionary achievements in sustainable transportation and urban livability
- •2011, Daring Ambition Award and Knowledge & Research Award at UITP World Congress in Dubai

Leadership

Project initiated under then Municipal Commissioner Mr I.P. Gautam (current Municipal Commissioner is Dr GuruPrasad Mahapatra) and championed by Mayor Shri Asit Ravindraprasad Vora

Collective leadership: ICLEI



12 Mega-cities

100 Super-cities

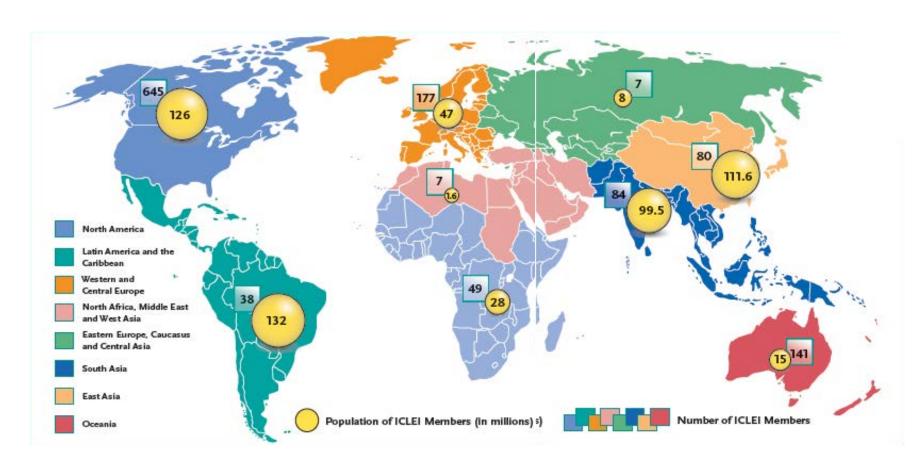
450 Large cities and urban regions



450 Small and medium-sized cities &towns

Collective leadership: ICLEI

Membership: 1,010 local governments in 83 countries



Collective leadership: ICLEI

Connecting leaders

Accelerating action

Gateway to solutions



Collective leadership: World Mayors Council









Collective leadership: World Mayors Council







- 2005 Founded at UNFCCC COP11 in Montreal, Canada
- 2007 Kyoto Climate Declaration released.
 - Local Government Climate Roadmap established.
 - World Mayors and Local Governments Climate Protection Agreement opened for signature.
- 2009 Bonn Center for Local Climate Action and Reporting (carbonn) launched
 - Copenhagen World Catalogue of Local Climate
 Commitments launched
- 2010 First Mayors Adaptation Forum convened in Bonn adopting the 2010 Bonn Declaration of Mayors
 - World Mayors Summit on Climate in Mexico City,
 - Global Cities Covenant on Climate (Mexico City Pact) and carbonn Cities Climate Registry (cCCR).
- 2011 Durban Adaptation Charter adopted
 - Mexico City Pact and carbonn Cities Climate Registry (cCCR) Annual Reports released.

Collective leadership: Mexico City Pact

- 1. Reduce local greenhouse gas emissions
- 2. Adopt and implement local climate mitigation measures
- 3. Develop local adaptation strategies
- 4. Register emission inventories, commitments, climate mitigation and adaptation measures &actions in a measurable, reportable and verifiable (MRV) manner
- 5. Seek creation of mechanisms allowing direct access to international funding for local climate actions
- 6. Establish a Global Cities Covenant on Climate Secretariat
- 7. Promote involvement of civil society in the fight against climate change
- 8. Advocate, and seek partnerships with multilateral institutions and national governments
- 9. Promote partnerships and city-to-city cooperation
- 10. Spread the word

Collective leadership: Mexico City Pact



Carbonn[®] Cities Climate Registry Annual Report May 2012



The 2011 cCCR Annual Report was launched at the Durban Climate Conference in November 2011 as an initial step of local governments to collectively share with the global climate community their measurable, reportable and verifiable climate action. The May 2012 Update* summarizes encouraging progress achieved in data compilation, new partnerships and future vision that have been developed over the past 6 months.

g countries million inhabitants	164	cities
47 million tCO2e/yr	Alla	A Childs
O GHG inventories	21	countries
07 commitments	170	million inhabitants
55 actions		(
OV 2011	1195	million tCO2e/yr
	270	GHG inventories
	319	commitments
	680	actions
The Mexico City Pact and the carbonn Cities Climate Registry will continue to demonstrate	T GLOBAL GOAL	
achievements of local action regardless of whether nations agree on a global deal."	M	ay 2012
Marcelo Ebrard, Mayor of Mecico City and Chair of World Mayors Council on		1330711