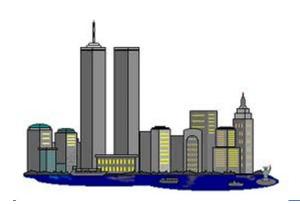


Realisation of Low Carbon Cities International Cooperation

Gino Van Begin
ICLEI – Local Governments for Sustainability

International Forum on the "FutureCity" Initiative Tokyo, Japan, 21 February 2012



Cities on the globe

1.2% of the Earth's surface

50% of the population

75% of energy consumption and CO2 emissions

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

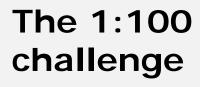
1 Megacity like Tokyo metropolitan is larger than each of the 150 smallest UN member states

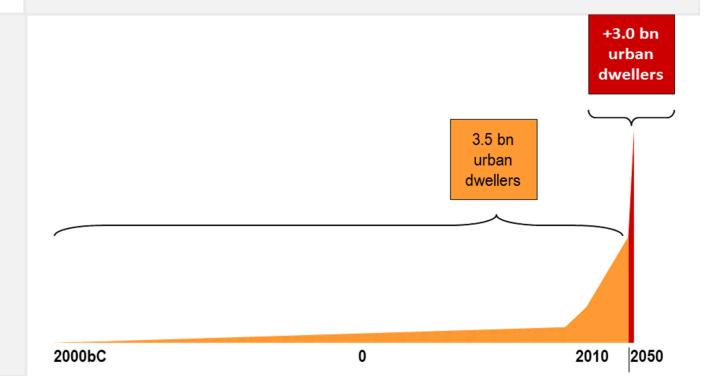


World population growth, urbanization

Unbroken global trends

"By 2050, within 40 years, we must build once more the same urban capacity as we have built over the last 4000 years."







Cities: rapid and radical transformation towards:

- Eco-efficiency, low-carbon
- Climate- and disasterresilience
- Green urban economy
- Low risk
- Healthy & happy community



Energy Use

Planning paradigm:

Priority to energy security: efficiency, renewable energy and low-carbon, low-risk sources

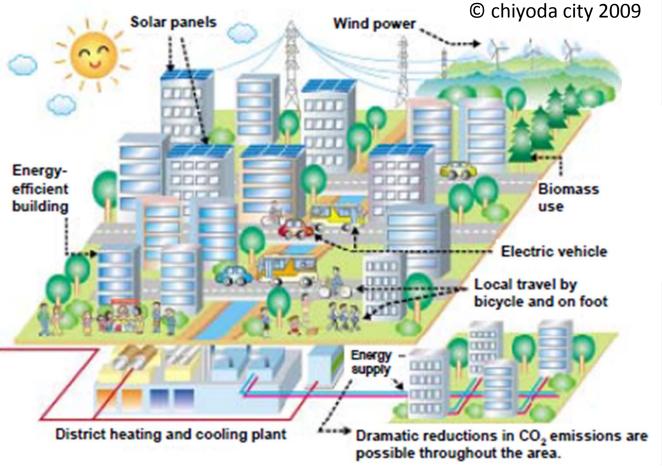
- 1. Avoiding energy use, reducing needs, saving energy
- 2. Energy-efficiency in consumption
- 3. Local renewable energy supply
- 4. Local energy from biomass, waste etc.
- 5. Renewable energy via regional/ national grid
- 6. Minimized use of coal and oil
- 7. No excessive risks, no nuclear energy



Energy Supply



Planning paradigm: Decentralized, local supply





Transport

Planning paradigm:

Priority to EcoMobility and integration of transport modes

- 1. Walking (pedestrians)
- 2. Bicycles, other non-motorized vehicles
- 3. Light electric vehicles
- 4. Public transport (trains, trams, buses, taxis, people mover, ...)
- 5. Shared cars
- 6. Mobility management



Materials



Planning paradigm:
Decouple human well-being from material through-put



- 1. Minimize material through-put (reduce)
- 2. Re-use
- 3. Cascaded downcycling, waste to energy, recovery of nutrients
- 4. Treat and dispose waste safely



Management

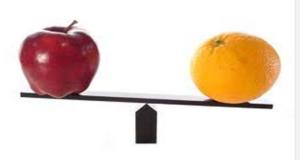


Management principle:

Measure, set targets, secure political commitment, implement, monitor, evaluate Involve users in design

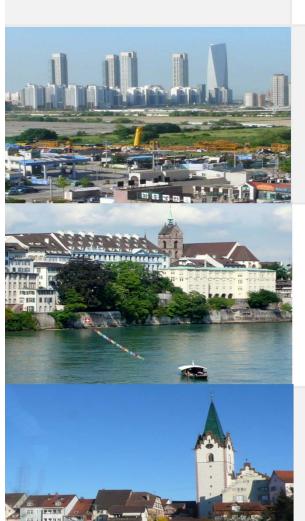


Guidelines Indicators and tools Measurement Reporting



Benchmarking, comparing Sharing successes





The Network

1,200 members in 70 countries

100 Green Drivers

XXL - 11 megacities of over 10 million

XL - 12 super cities of 5-10 million

L - 90 large cities of 1-5 million

Green Innovators

M – 460 cities of 100,000 - 1 million

Green Inventors

S - 650 towns up to 100,000







Cities' 8 goals ICLEI's 8 agendas

- Integrated sustainability policy & planning
- Green urban economy
- Green infrastructure
- Low-carbon and climateneutral city
- Disaster- and climate-resilient city
- Resource-efficient city
- Bio-diverse city
- Healthy & happy city



Example: Low-carbon city

Online service for urban ghg emissions accounting





Center providing services:

- Cities Climate Registry
- Standards and tools
- Capacity-building and training



Global registry of cities' climate targets, actions and performance – measurable, reportable, verifiable



Thank you

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