



Resource Efficient Cities

Drivers of Change & Engine to Sustainability

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WHY FOCUS ON CITIES ?



- **Cities: status and pressures, part of the Problem**

- 3% of land surface
- 50% of global wastes
- 60-80% of global GHG emissions
- 50% world's population now, 80% in 2050
- 75% of natural resources consumed

- **Cities: drivers of growth, part of the Solution**

- ✓ 80% of global GDP produced
- ✓ Water savings, 30% behavioral changes
- ✓ Energy savings, 30 to 50% with limited investment

- **Opportunities through SCP & Resource Efficiency**





UNEP's cities related activities

- Approach based on:

- ❖ **SCP and Resource efficiency**

1. Buildings
2. Cities
3. Consumption patterns and Efficiency

- ❖ **Economics**

1. Cost of inaction
2. Benefits
3. Incentives

- ❖ **10YFP on SCP**



We promote and encourage resource efficiency in cities



We work with city leaders & other partners to:

- Develop **systems and policies** that promote integrated sustainable buildings, transport, water & waste management, and urban growth
- **Decouple resource use** from environmental impacts and economic growth
- Make significant investments in moving toward a **green economy** and contribute to global sustainability
- Adopt a **multi-stakeholder approach** in generating sustainable solutions for city development



UNEP's approach on cities

- Rapid and unplanned urbanization is unsustainable. In the next few decades, it will exacerbate climate change challenges & ecosystem management;
- Urbanization on a new, resource-efficient path will create markets for sustainable products
- Political commitments at Rio+20 for strengthening role of cities can build support for cities & encourage them to act more sustainably





A Global Initiative for Resource Efficient Cities

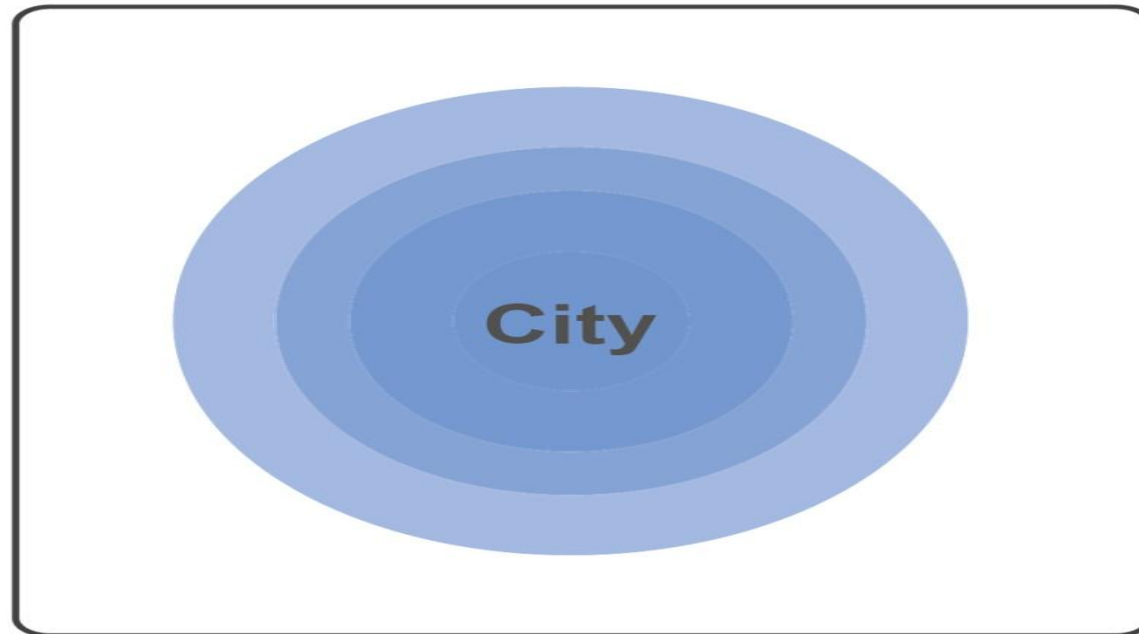
Objective: To enhance the quality of life in urban areas, in particular in rapidly growing cities in developing countries, while minimizing resource extraction, energy consumption and waste generation, and while safeguarding ecosystem services



What does it do?

- Assist cities in identifying and monitoring their resource footprint
- Links partners and cities interested in resource efficiency
- Coordinate and support the development of clear goals and targets
- Provides access to expertise and support access to funding

Global Initiative for Resource Efficient Cities



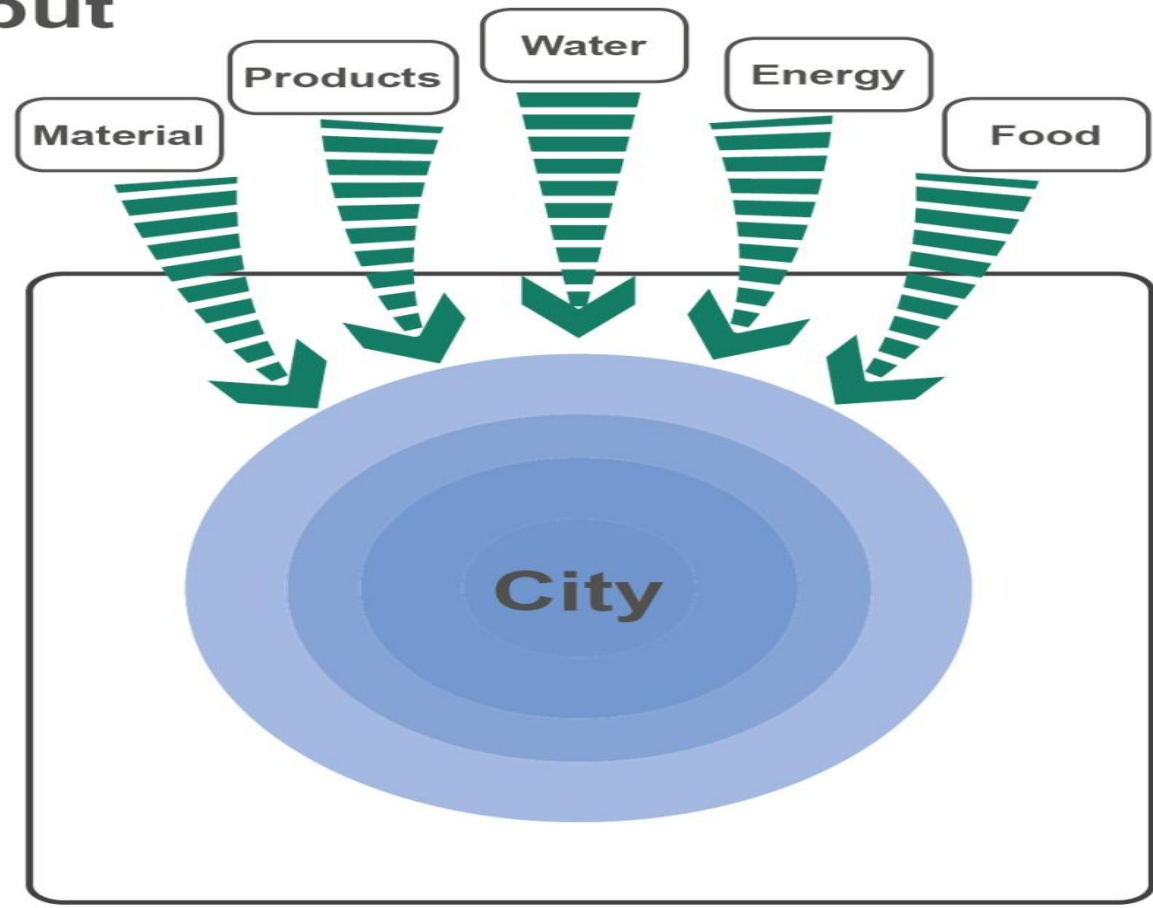
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UNEP's Approach to Resource Efficient Cities

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Input



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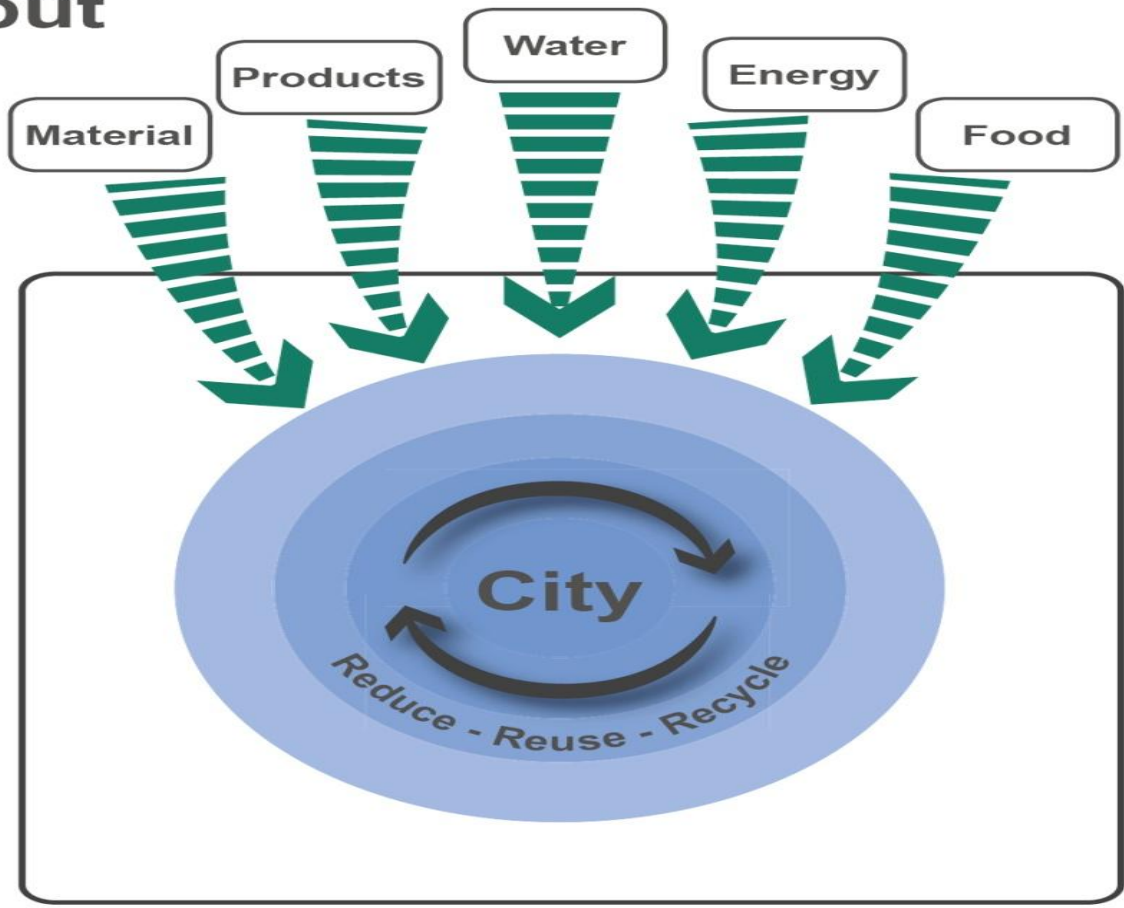
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Input



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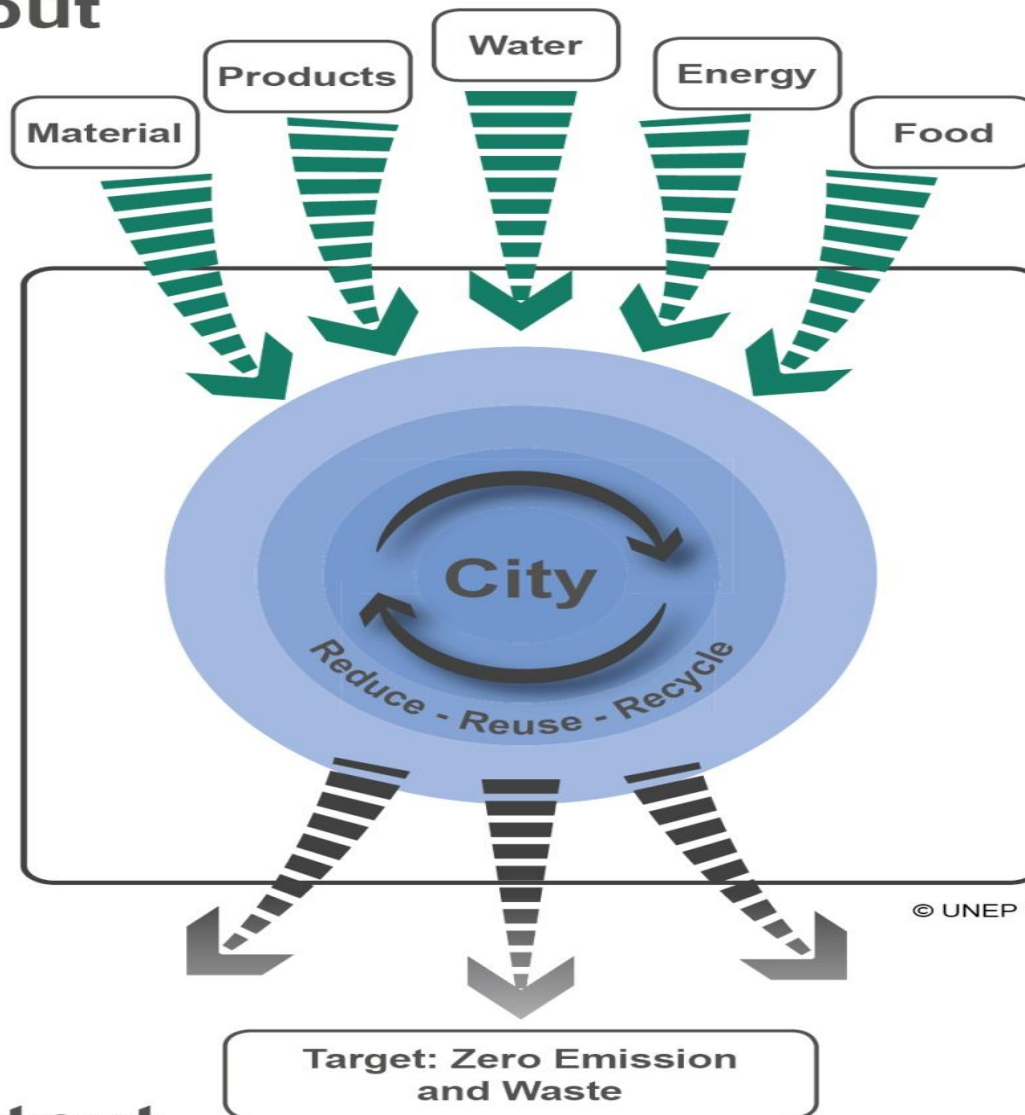
UNEP's Approach to Resource Efficient Cities



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Input



Output

UNEP's
Approach
to
Resource
Efficient
Cities



Resource footprint for cities

- Research on resource flows and assessments will be developed at city level to contribute to a resource footprint.
- Decision makers will be provided with tools to support and follow progress on the efficient use of resources available to them with adequate policy tools and market instruments.
- Informed decision-making with financial infrastructure savings





Global Initiative for Resource Efficient Cities



Components of the Global Initiative

- 1. Research agenda** – Dedicated to further knowledge to facilitate decision making and provide access to information for decision makers in various fields related to resource efficiency and sustainable consumption and production; increase access, processing & use of resources through supply chain and LCM;
- 2. Enabling Framework** – Offer national and city decision makers access to technical expertise in areas such as policy development and proven practical tools, market incentives and public-private partnership options to support resource efficiency
- 3. Network Platform** – To provide a mechanism for decision makers to exchange experiences, share best practices, and establish a peer-review process across cities for further improving access to resources and their efficient use





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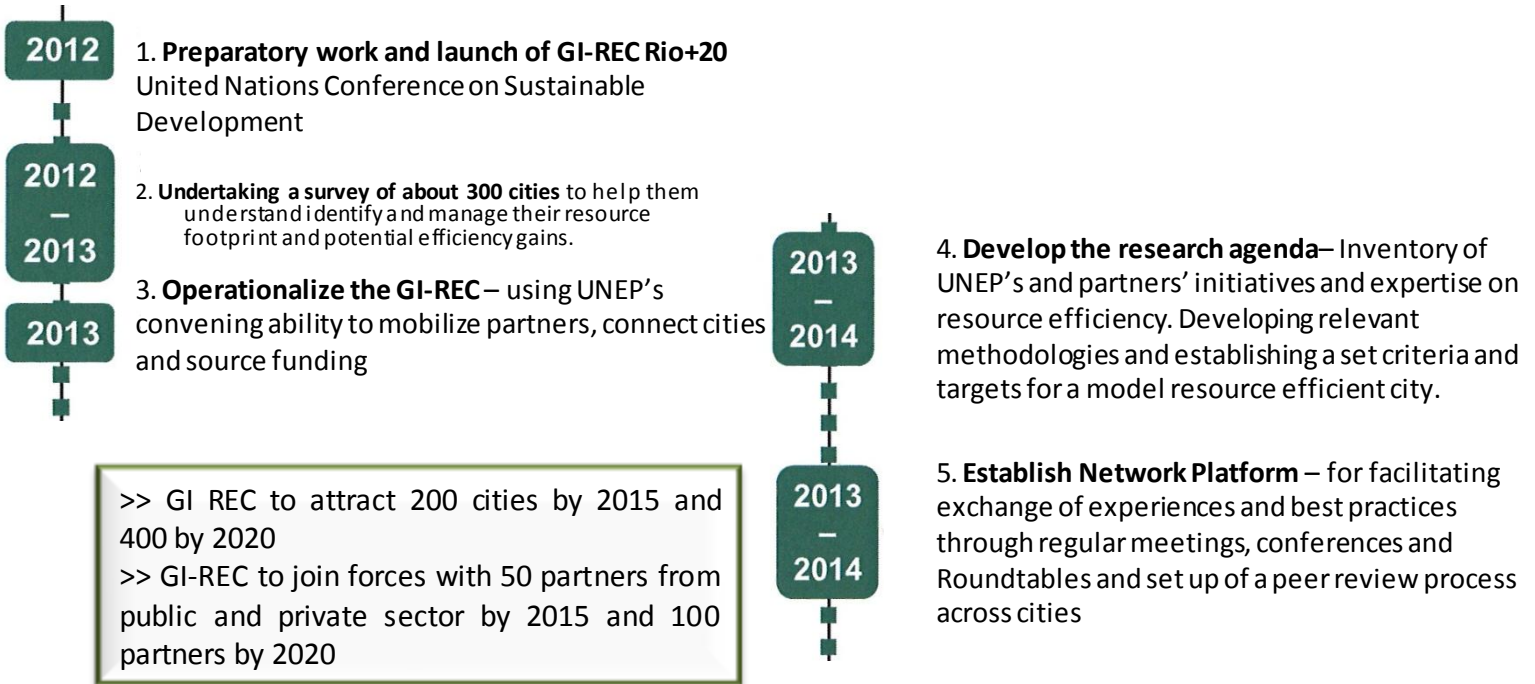


Main Elements of the Global Initiative

- Identify and promote **common indicators** (e.g., for GHG emissions, city environmental performance assessments, Common Carbon Metric in the building sector, etc).
- Provides **technical expertise and support** for important dimensions of resource efficiency (e.g. supply chain management, life cycle analysis, etc).
- Support the **dissemination of good practices** and new technologies in key sectors (e.g. energy generation, buildings, transport, waste and water).
- Support the **development of clear goals and targets** (e.g. reducing energy consumption in buildings) and assist cities in accessing the resources needed to achieve them.



Suggested Roadmap & next steps



Leading to the development of a **resource footprint** of cities together with partner cities and partners towards more resource efficient cities



Global Initiative for Resource Efficient Cities

- Governments:

Japan

Brazil

France

- IOs, NGOs, private sector and research

UN-HABITAT

World Bank

Cities Alliance

Federation of consulting Engineers (FIDIC)

UNESCO

Institute Veolia Environment

IIED

GoF of Sust. Cities

LendLease

GIZ

Bio Regional-One Planet Living

OECD

- Cities and City networks

Gwangju, Korea

Manila

C40

New York city

Sao Paulo

Malmo

Mexico City

Bangkok

ICLEI

Covenant of Mayors

UCLG

Urban Environmental Accords Members Alliance (109 cities across the world)

THANK YOU

UNEP

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