



Helping Cities in the Region to Move towards **Low-carbon Cities**

- Taesang Kim, Urban Program Officer, ICLEI East Asia Secretariat
- International Symposium on Realizing Low-carbon Cities on 16 Dec 2013



A photograph of a forest with tall trees and a path, overlaid with a white text box containing the table of contents. The text box has a yellow header bar at the top and a teal footer bar at the bottom.

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- Energy-safe Cities Program
- Korea GreenClimateCities

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1. Introduction

2. What We Offer for Low-carbon Cities

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Introduction – Who we are



A Global City Network

Members from Mexico City
to Seferihisar



Introduction – Who we are

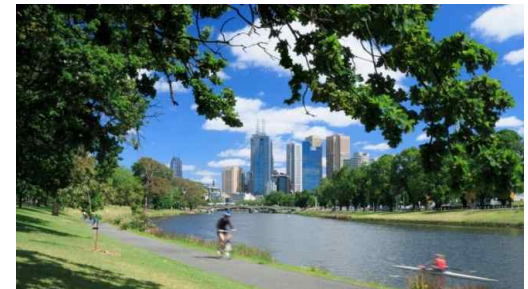


- ICLEI East Asia Secretariat newly established in October, 2012
- Member cities in EA: 78 cities
 - Greater China (12), Japan (21), S. Korea (44), Mongolia (1)

Introduction – What we do

8 Urban Agendas

- Sustainable city 可持续发展城市
- Disaster-and-climate-resilient city 抗灾韧性城市
- Resource-efficient city 资源优化城市
- Biodiverse city 生物多样性城市
- **Low-carbon city 低碳发展城市**
- Green infrastructure 绿色基础设施建设
- Green urban economy 绿色经济发展
- Healthy & happy community 健康快乐社区



ICLEI Global – What we do



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1. ICLEI Global
 2. **What We Offer for Low-carbon Cities**
 3. Regional and National Programs
 4. Implications & Suggestions

What We Offer for Low-carbon Cities

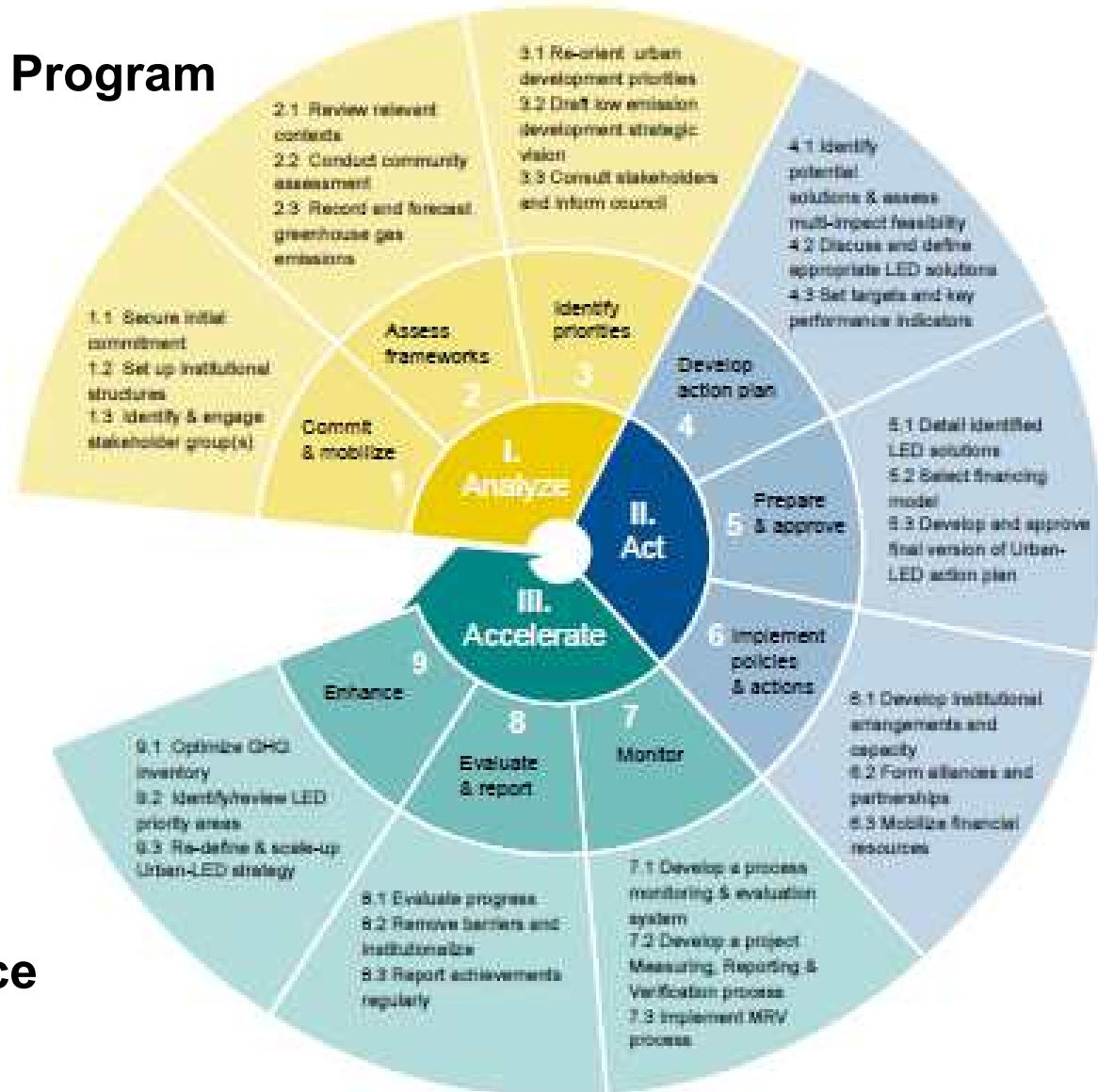
1. Green Climate Cities Program

- Global ICLEI program and network
- It offers:
 - Process tailor-made to Local Government requirement
 - Clear and flexible methodology covering 3 phases: Analyze, Act and Accelerate
 - Tools and guidance to support Local Governments to deliver effective Local Climate Action step-by-step
 - Exchange opportunities
- Offered to ICLEI Members and partner local governments
- Implemented through various international and national projects

What We Offer for Low-carbon Cities

1. Green Climate Cities Program

- **Methodology**



- **3 Phases, 27 Steps**

- **Support and guidance offered at each step**

What We Offer for Low-carbon Cities

1. Green Climate Cities Program

- Institutions



carbonn
Bonn Center for Local
Climate Action and Reporting



**Manages
GCC program**



Mexico City Pact
(Global Cities Covenant
on Climate)



**Framework
For political
commitment**



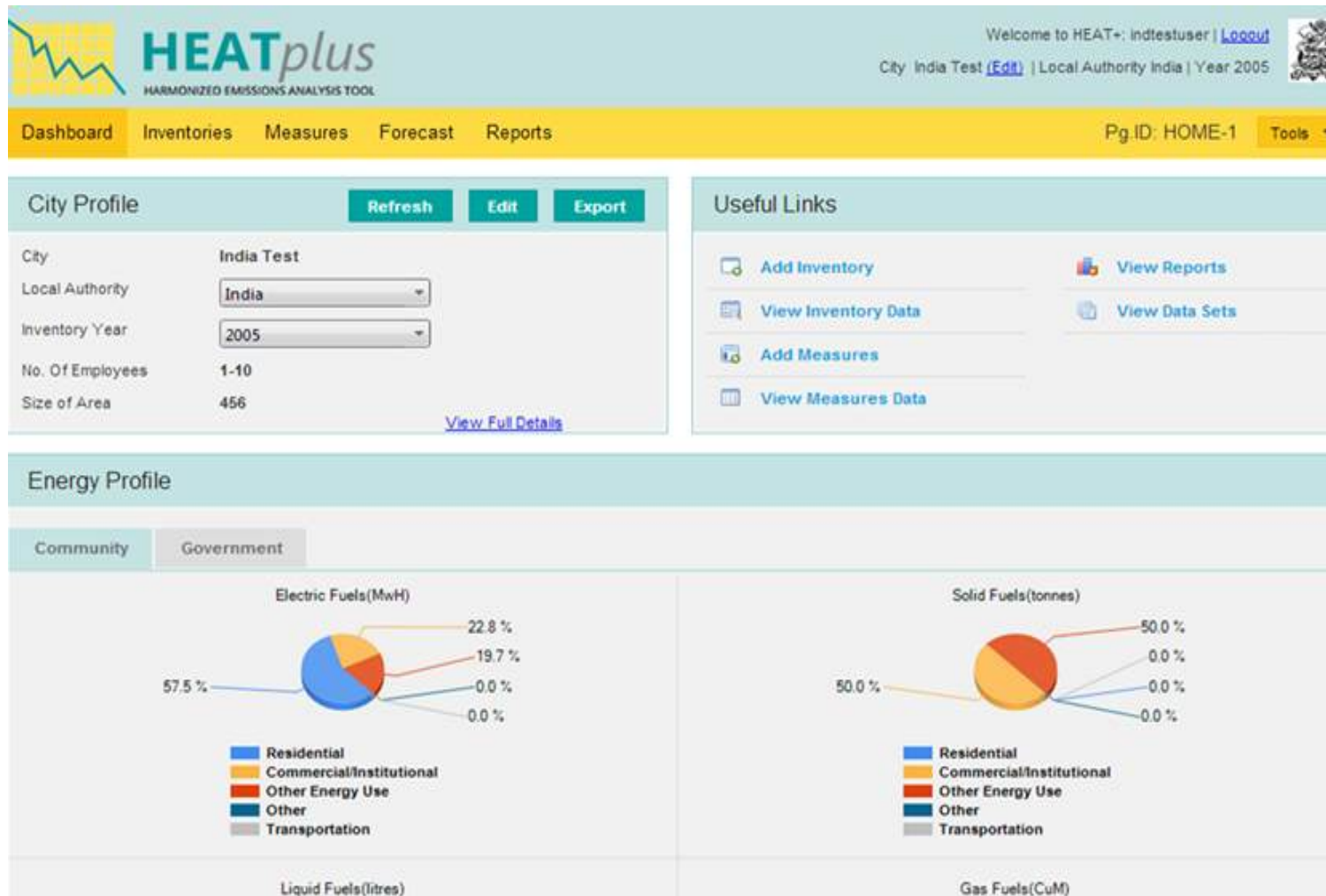
**carbonn Cities Climate
Registry (cCCR)**



**Global
reporting
platform**

What We Offer for Low-carbon Cities

2. HEAT+ for GHG accounting and management



What We Offer for Low-carbon Cities



2. HEAT+ for GHG accounting and management

- Emissions management and planning tool for cities
- **Local governments** can track emissions that are related to community and government activities
- **Country specific emissions factor values** (IPCC and other sources). Global Protocol for Community-Scale Greenhouse Gas Emissions (GPC) compliant.
- **Internet based**, centralized tracking and management
- **Multi-lingual:** 8 languages versions (more country versions) – Bahasa (Indonesia), **Chinese**, English, Filipino, French, Korean, Portuguese, Spanish, ...

What We Offer for Low-carbon Cities



2. HEAT+ Functionalities

- Inventorying local-level greenhouse gas emissions
- Forecasting Business-as-Usual (BAU) scenario
- Setting Targets
- Creating Measures
- Planning Actions
- Reporting

What We Offer for Low-carbon Cities



2. HEAT+ Software Module – City Emission Inventory



What We Offer for Low-carbon Cities



2. HEAT+ Reporting requirements

By Scope

- Scopes 1, 2, 3

By Sector

- Energy - Stationary Units, Energy - Mobile Units, Wastes, IPPU, AFOLU (2006 IPCC Guidelines)

By Gas

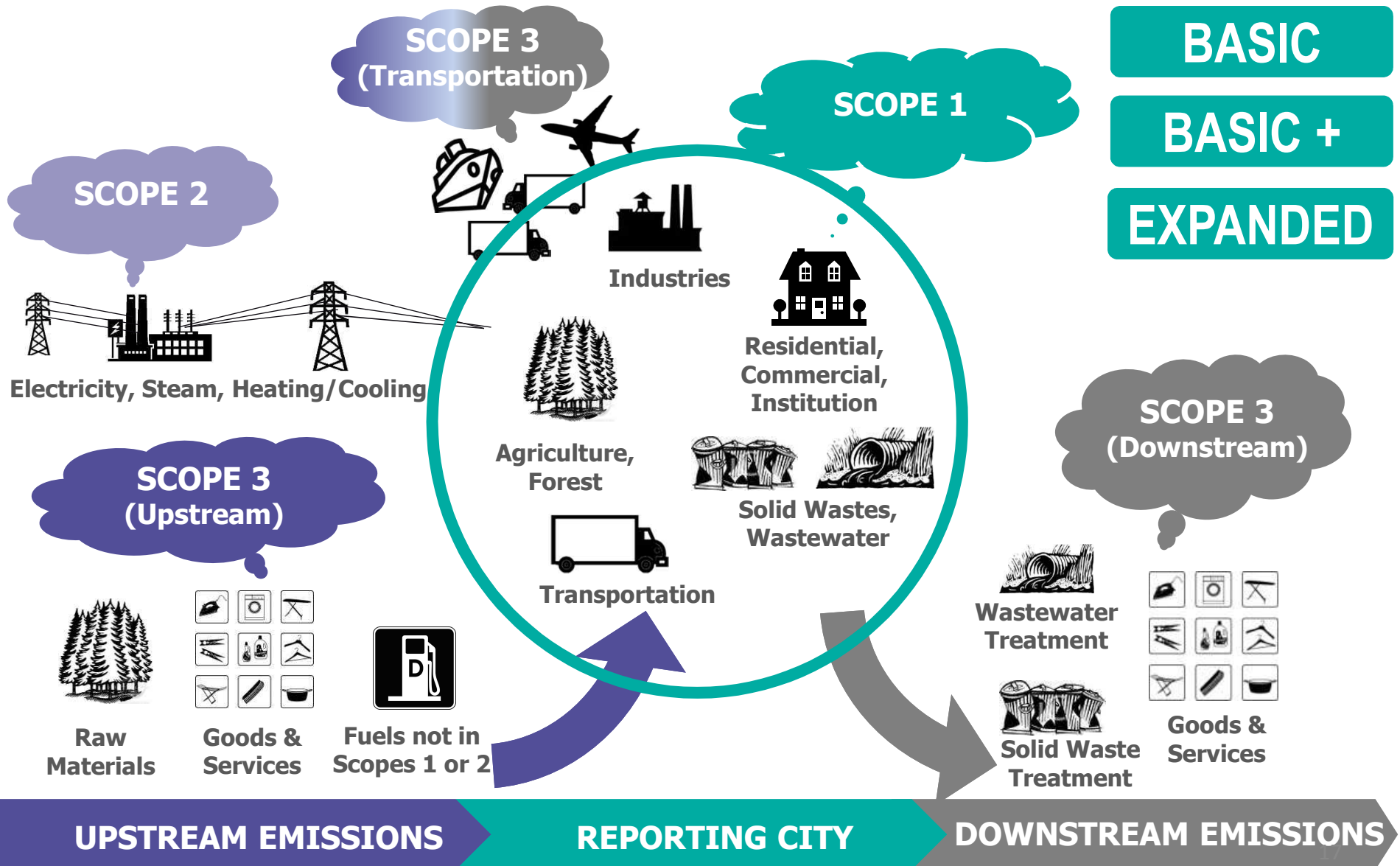
- CO₂, CH₄, N₂O, HFCs, PFCs, SF₆

What We Offer for Low-carbon Cities

BASIC

BASIC +

EXPANDED



UPSTREAM EMISSIONS

REPORTING CITY

DOWNSTREAM EMISSIONS

What We Offer for Low-carbon Cities

Global Protocol for Community Scale GHGs Emission



WORLD
RESOURCES
INSTITUTE

30 years experience in promoting sustainability worldwide

14 years of GHG accounting standard development experience



Represent **>60** largest cities from around the world committed to implementing meaningful and sustainable climate-related actions



Represents **>1000** local government members worldwide

Over **20** years experience in addressing urban sustainability issues

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1. ICLEI Global
 2. What We can Offer for the Partnership
 - 3. Regional and National Programs**
 4. Implications & Suggestions

Regional and National Programs

1. Overview Study on Low-carbon Eco City Projects and Networks

Aims to better understand and report the current status and challenges for low-carbon city development in the East Asia region.

Shall provide an overview of low-carbon and eco city networks and projects based on expert knowledge by answering the following questions of:

- What programs and networks exist?
- Who has initiated and who is managing them?
- What are their goals and performance criteria if any?
- Which cities have been part of them?



Parallel studies are carried out for China, Chinese Taipei, Japan and South Korea.

Results will be published as part of a ICLEI East Asia report. Based on the studies, ICLEI will consider regional programs or country projects tailored to the specific conditions and needs of local governments.

Regional and National Programs

2. Energy-safe Cities Program

- Designed to help cities in the East Asia region explore opportunities for urban energy transformation into an energy-mix of low-carbon, low-risk and resilient, and to guide them to design and implement their own long-term energy policies
- Three cities from each country, China, Japan, and South Korea will be invited to participate



Regional and National Programs

2. Energy-safe Cities Program



1st Step : Expert Symposium

- The Expert Symposium will see local governments, world's best solution providers from a business sector and internationally renowned experts in urban energy explore how to transform urban energy systems
- Participants will leave with clear ideas of the benefits of an energy-safe future, latest available technologies and systems as well as the costs and timetables needed to deliver low-carbon, low-risk and resilient urban energy systems by 2030

Regional and National Programs

2. Energy-safe Cities Program



2nd Step : Scenario Workshop

- Based on the insight gained through the Expert Symposium, each participating city will express its interest in continuing the process
- Cities that expresses its interest in continuing the process will be offered a tailored local scenario workshop for one week between July to November 2014 at which a city team together with international and domestic experts will specify a local strategy for how the Goal 2030 can be reached and at what cost

Regional and National Programs

2. Energy-safe Cities Program



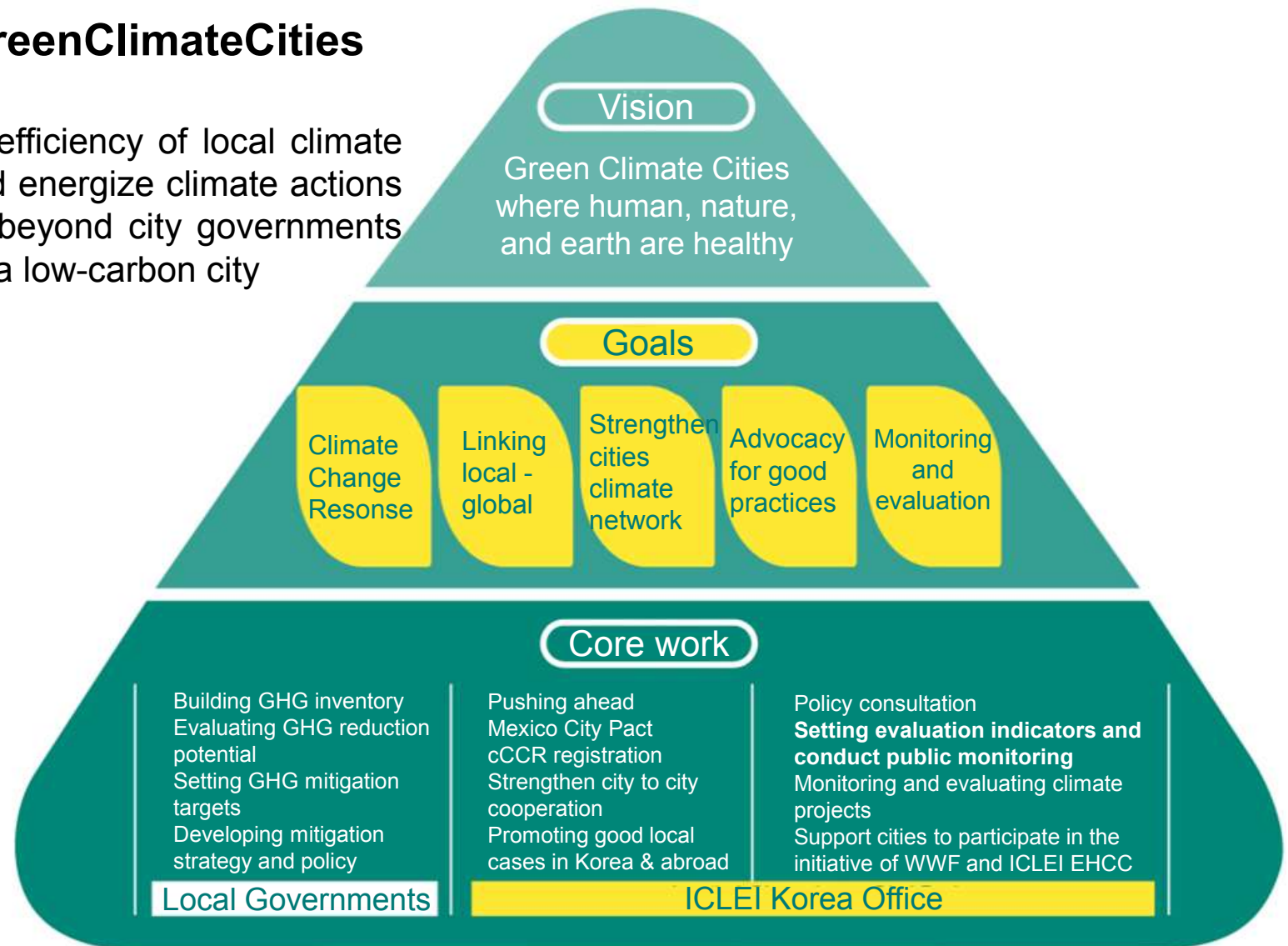
3rd Step : Joint Conference

- Lastly, EAS will organize a joint conference of all the participating cities to compare approaches and identify opportunities for cooperation on the implementation of energy-safe future plans by scaling up solutions
- The results will be developed into a set of program to support other cities in the region

Regional and National Programs

3. Korea GreenClimateCities

- Increasing efficiency of local climate policies and energize climate actions within and beyond city governments to become a low-carbon city



Regional and National Programs

3. Korea GreenClimateCities – Pilot Project in 2013



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1. ICLEI Global
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Implications and Suggestions

Challenges to build a partnership

- Different organization doing a similar job
 - Most of the Low-carbon City projects have been implemented by a central government in each country (top down – rather than voluntary bottom up)
 - Cities lack financial resources to take a bold action to be low-carbon city
 - Difficult for international NGOs to make a partnership with Chinese cities
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Implications and Suggestions

Suggestions from ICLEI for the partnership

- Important to have an universally established tool in order to build a sub-regional partnership in the region and to ensure that we do not end up in symbolic action with good intentions
- **HEAT+** has been developed based on ICLEI's 20 year experience with climate work of cities worldwide. **Chinese version is available** and ready to be applied for test use
- ICLEI ready to offer a CD-ROM desktop version for single computers, or could provide the tool for installation on a China-based server from which it could be accessed online
- **Methodology of Green Climate Cities** - a framework for systematic municipal work toward low-carbon development



Local actions can change the world, thank you!

**"The road to
sustainability
runs through the
world's towns and cities."**

Ban Ki-Moon
UN Secretary General

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