

# ICLEI – Local Governments for Sustainability

宜可城—地方可持续发展协会

## Meeting challenges

Cooperation between local governments and systematic actions

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# 城市在全球发展中的地位

## CITIES ON THE GLOBE

75%

全球能源消耗和  
温室气体排放来自城市  
of Global Energy Consumption  
and GHG Emissions

54%

全球人口居于城市  
of the World's Population



80%

全球经济动能来自城市  
of Global GDP

63%

全球创业投资集中在城市  
of the World's Venture Capital  
Investment

# 地方行动 应对全球挑战

## LOCAL SOLUTIONS TO GLOBAL CHALLENGES

在 1990 年联合国地方可持续发展大会期间，来自全球 200 多个地方政府共同发起成立 **宜可城-地方可持续发展协会**。目前，宜可城已发展为全球最具影响力的地方政府合作网络，有超过 **1500个** 城市会员。

Found in 1990 by **200+** local governments at the UN sustainable local development conference, **ICLEI** is the leading global network of **1500+** cities, towns and regions committed to building a sustainable future.



ICLEI World Congress 2015, Seoul, Korea

ICLEI 的工作影响  
ICLEI'S WORK IMPACT

**25+** %

全球城镇人口  
OF THE WORLD'S URBAN  
POPULATION

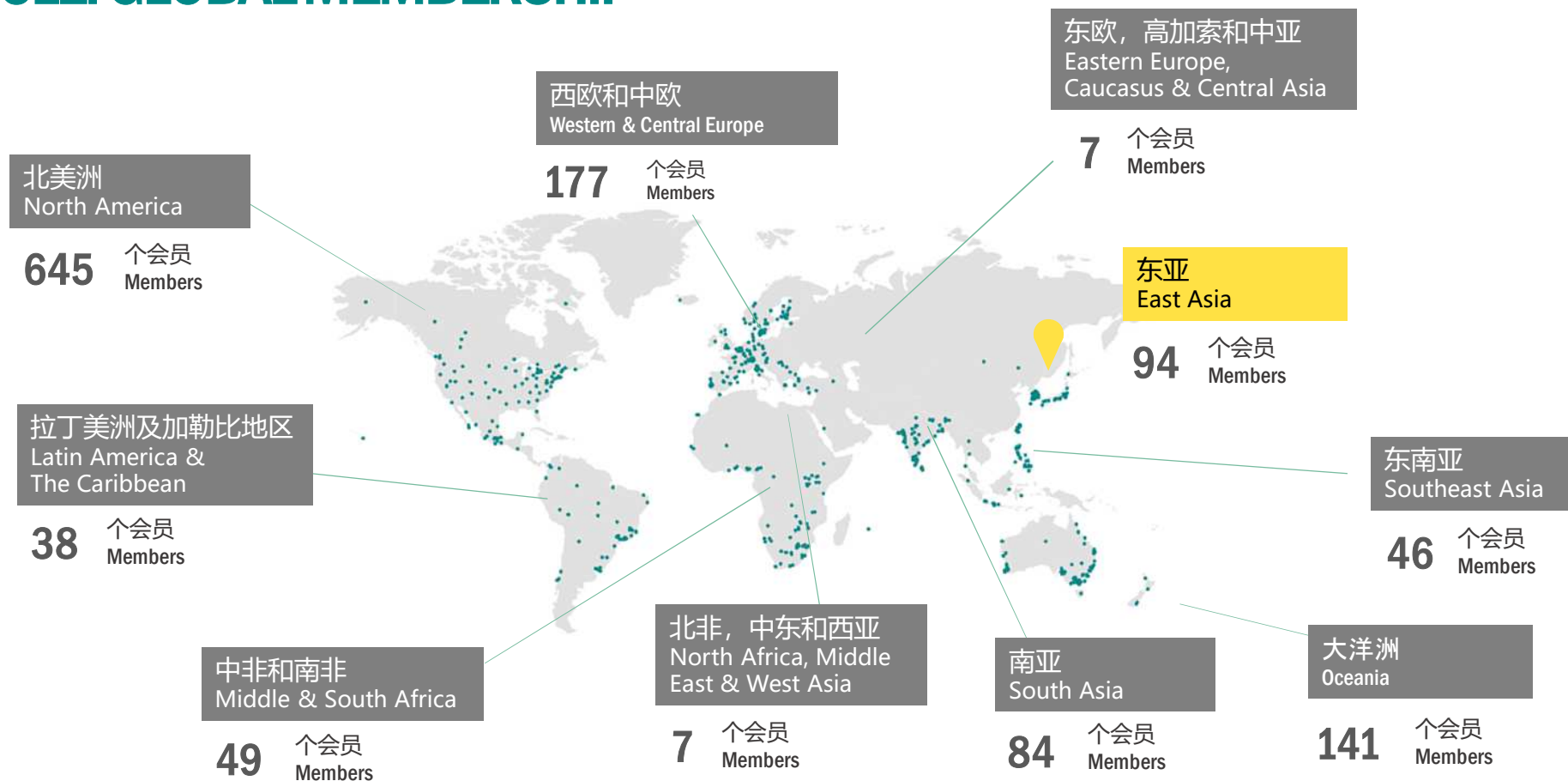
# 可持续发展目标

## SUSTAINABLE DEVELOPMENT GOALS

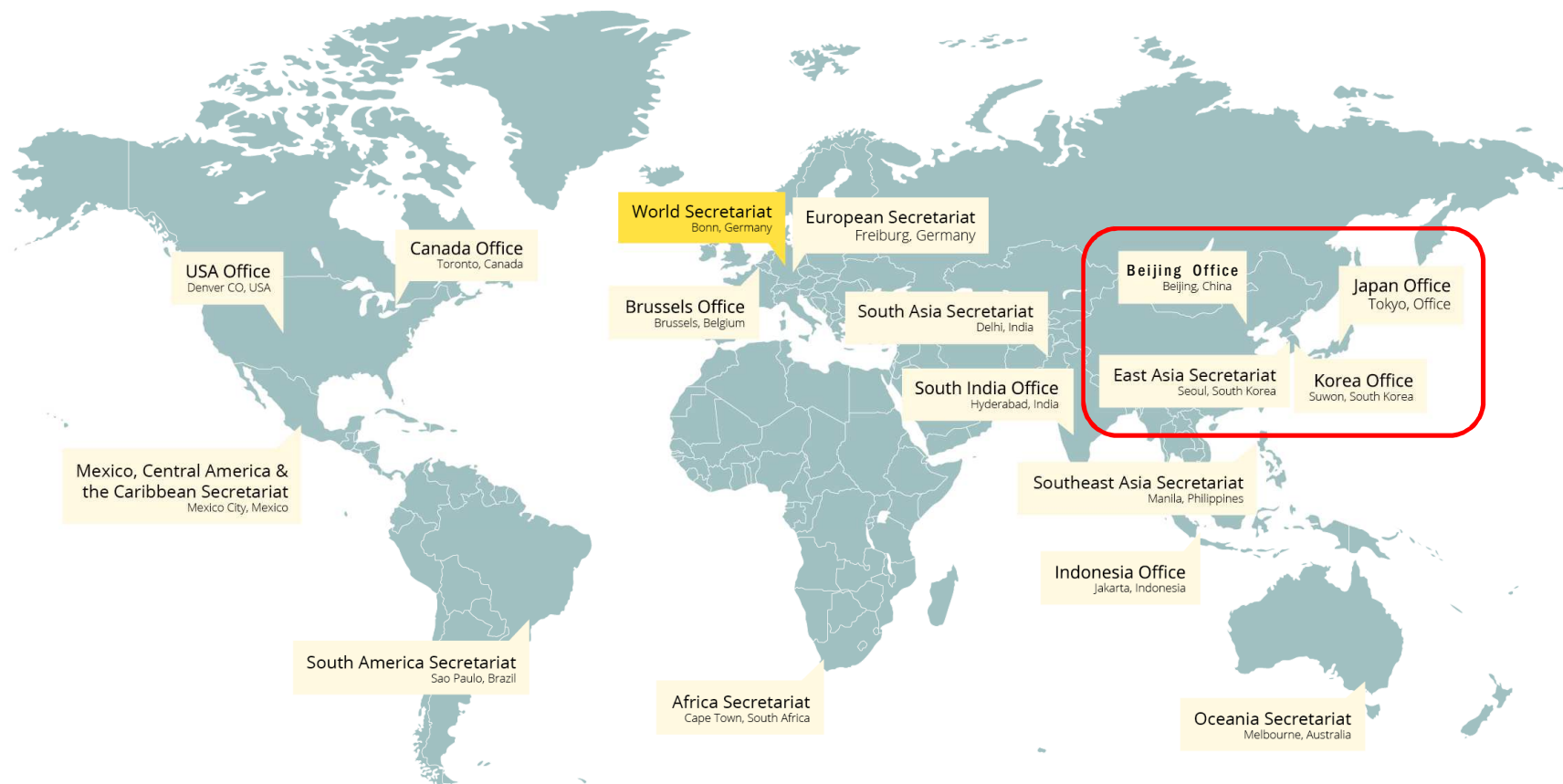


# 宜可城全球会员分布

## ICLEI GLOBAL MEMBERSHIP



# 宜可城全球办公室 ICLEI WORLDWIDE





# 10

## URBAN AGENDAS 十大城市议程



可持续城市  
Sustainable City

低碳城市  
Low-carbon City



绿色出行  
EcoMobile City



生物多样性城市  
BiodiverCity



可持续城市-地区合作  
Sustainable City-region  
Cooperation



可持续地方经济和采购  
Sustainable  
Local Economy &  
Procurement



幸福,健康和包容社区  
Happy, Healthy  
& Inclusive  
Communities



智慧城市  
Smart City



韧性城市  
Resilient City

资源高效  
和生产力城市  
Resource-efficient  
& Productive City



# 项目与活动

## PROGRAMS & ACTIVITIES



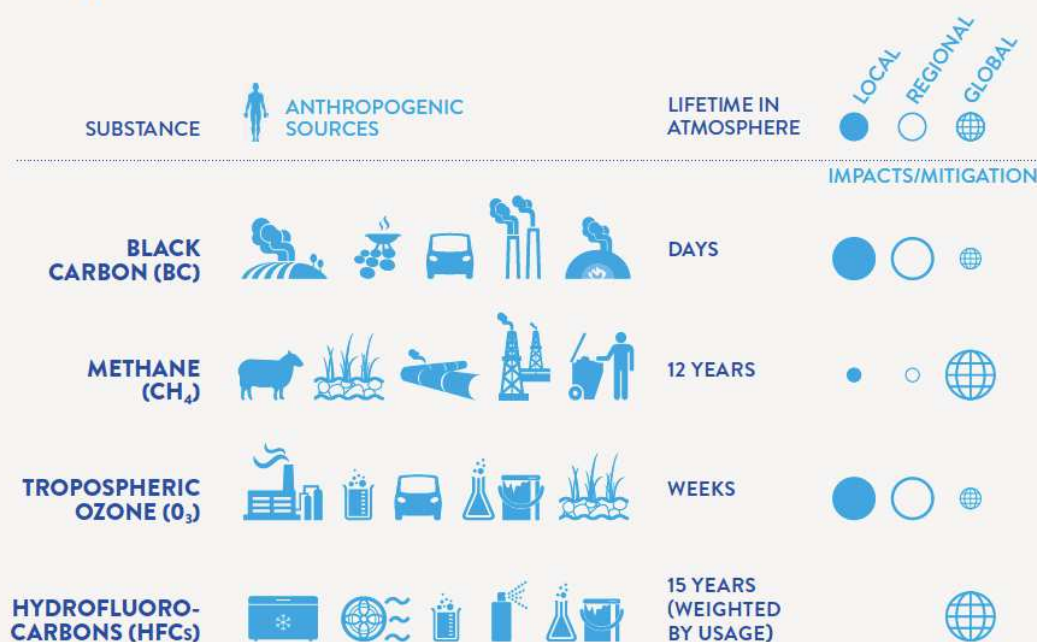


# 大气及气候污染物的关系

## CONNECTION BETWEEN AIR AND CLIMATE POLLUTANTS

### SHORT-LIVED CLIMATE POLLUTANTS

Response to mitigation efforts



[www.ccacoalition.org](http://www.ccacoalition.org)

# 城市面临的挑战

## WHAT ARE THE CHALLENGES?

The good thing is there is a growth of political willingness, however there are still challenges

1. Lack of effective and consistent, integrated approach
2. The difficulty to quantify success
3. Complexity of cooperation
4. Missing connection to green growth
5. Finding appropriate finance channels

好的方面是政治意愿开始增长，但仍然有一定挑战

1. 缺乏有效，一致的总体规划方法
2. 难以量化行动及项目的成功
3. 国际与区域合作的复杂性
4. 城市未能将低碳发展与绿色增长的关系连接起来
5. 城市难以寻找适当的财务渠道

# 例子1：宜可城低碳城市项目

## Example 1: ICLEI's Low Carbon Cities Program

We aim to address:

1. Systematic and integrated approach for cities to refer to
2. Core: Measure, Report & Verification
3. Benchmarking between cities
4. Wide-range of solutions and cases
5. Visibility of cities projects for finance

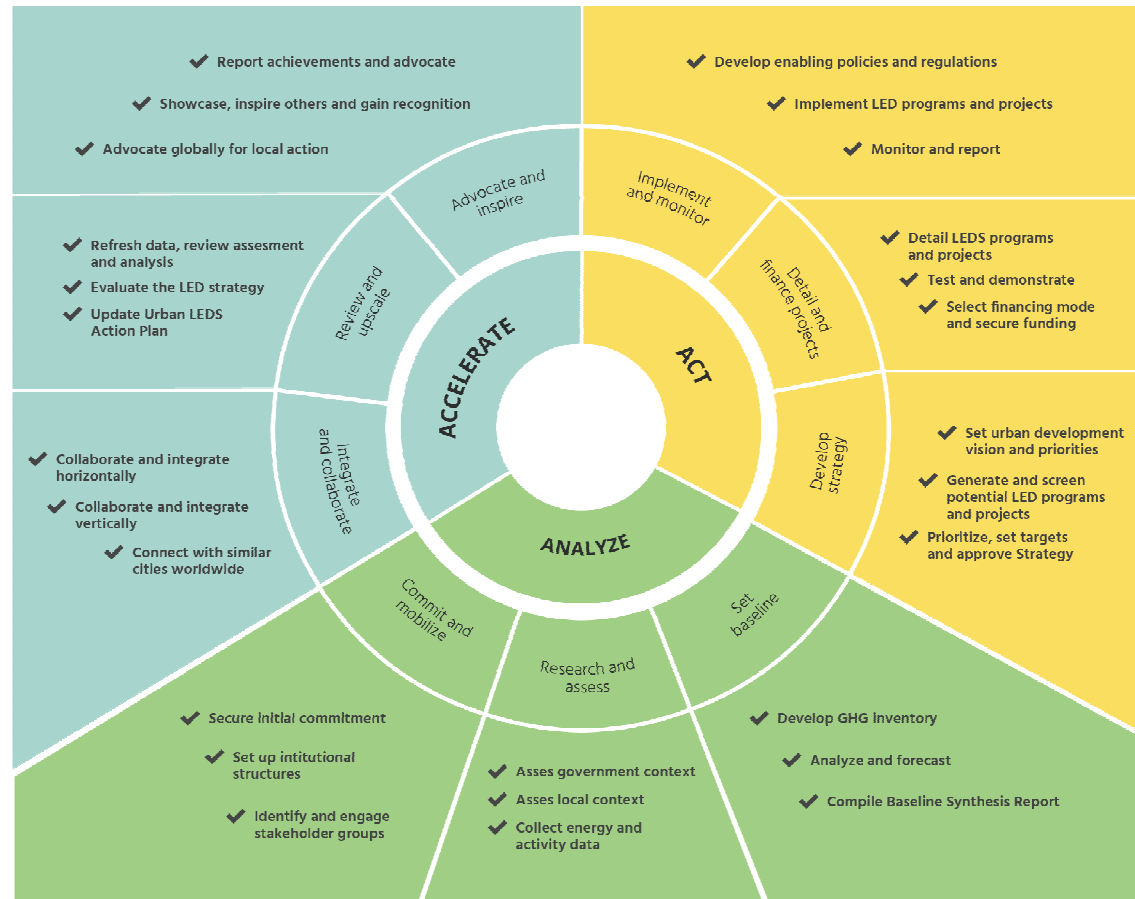
我们旨在解决：

1. 系统和综合的方法供城市参考
2. 核心内容：测量，报告和验证
3. 让城市之间进行对标
4. 广泛的解决方案和案例
5. 城市项目融资的可见性

# 绿色城市方法学

## GreenClimateCities Process Methodology

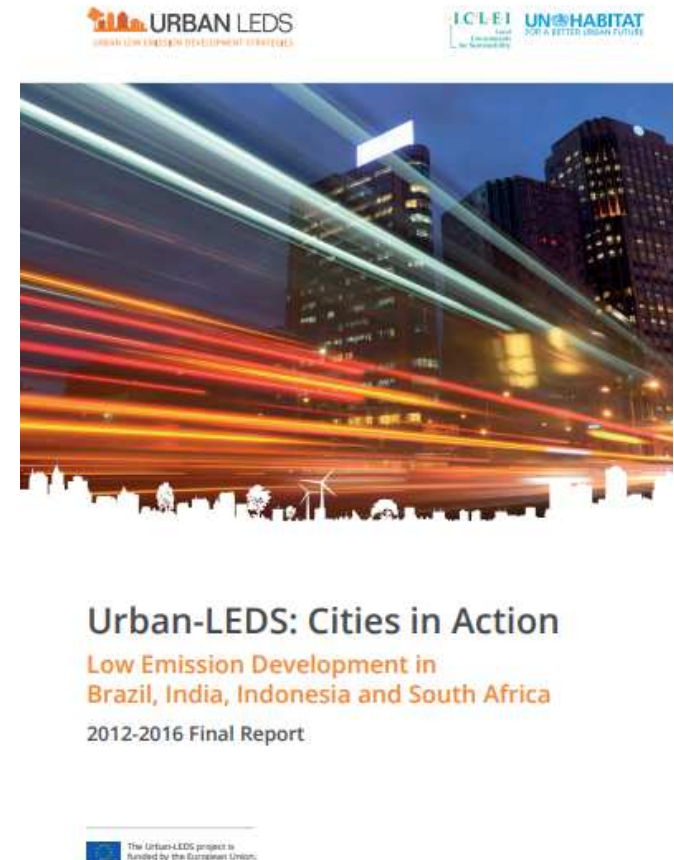
- 指引城市迈向可持续发展与应对气候变化  
ICLEI's methodology for local governments to guide sustainable development and tackling climate change
- **三大步九大法**: 精准定位发展阶段和需求  
Identify development stages and needs defined in **3 phases and 9 stages**
- 每阶段提供具体分析、指导、评估  
Provide evaluation, support, and analysis at every phases and stage



# 城市低排放发展策略

## Urban Low Emission Development Strategies

Contributing to the reduction of greenhouse gas emissions by the promotion of **Urban Low Emission Development Strategies (Urban LE DS)** in emerging economies (Brazil, Colombia, India, Indonesia and South Africa), and Least Developed Countries (Bangladesh, Lao PDR and Rwanda)



# 气候展示平台 carbonn Climate Registry



Support transparency, accountability and credibility 为全球气候行动提升透明、可问责、可信赖的基础

## carbonn Climate Registry

The global reporting platform for cities, towns and regions tackling climate change  
- created to support transparency, accountability and credibility



**828**

9% of the world population represented



**1031**

Number of entities registered to the cCR



**87**

Countries



**1985**

Climate Targets



**7131**

Mitigation and Adaptation actions



**1.1**

Committed GHG emission reductions by 2020



**26.8**

Committed GHG emission reductions by 2050



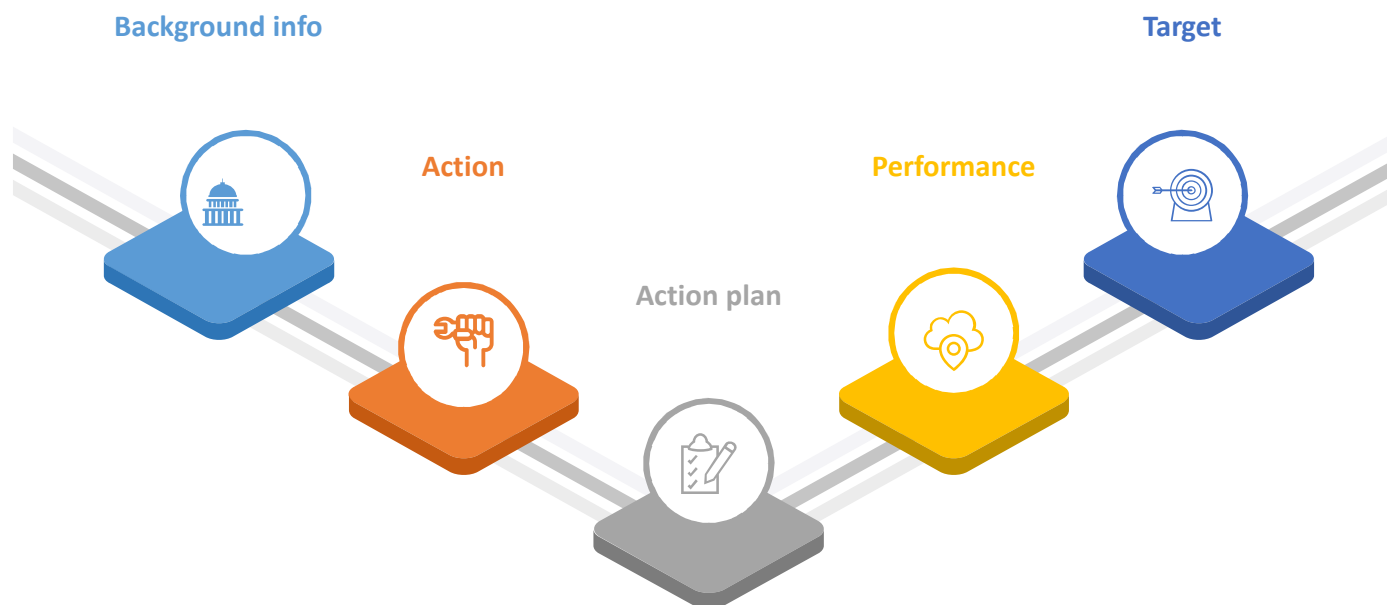


# 气候展示平台

## carbonn/Climate Registry

Basic reporting requirement: Background info+ any other one element

注册基础要求：城市基本资料 + 任一项其他信息 (例如：行动、行动方案、成效、目标)

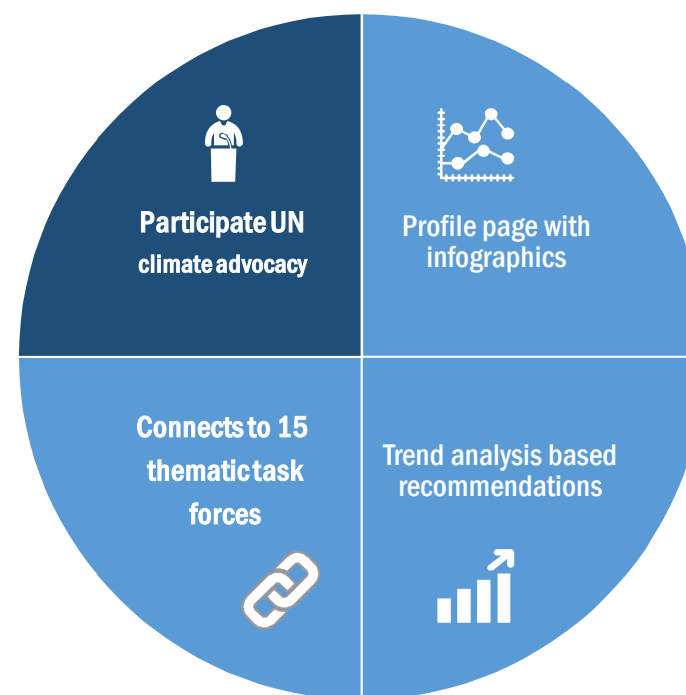


# 气候展示平台

## carbonn Climate Registry

### Benefits of Reporting 参与的好处

- 参与并支持联合国气候行动
- Participate UN climate advocacy
- 连结15个主题工作小组
- Connects to 15 thematic task forces
- 清楚明确的信息图表
- Profile page with infographics
- 提供具有科学数据支持的政策建议与排放路径分析
- Trend analysis based recommendations



# 以建筑领域为例

## Building Sector as An Example

### Building related targets



Reporting entities  
148



GHG reduction  
126



Renewable energy  
47



Energy efficiency  
139

### Building related actions

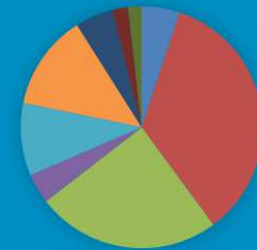


Reporting entities  
226



Action  
947

### Building Action Type



- Fiscal/Financial mechanism
- Technical/Infrastructure investment
- Policy/Strategies/Action Plans
- Assessment/Research

148 entities made 312 mitigation targets relating activities in the building sector. Among them 126 are direct GHG reduction targets, 139 energy efficiency targets and 47 renewable energy targets.

226 entities reported 947 actions relating activities in the building sector, among them 119 have adaptation as main focus and 828 mitigation.

# Solutions Gateway

Low Carbon Solutions for Urban Development Challenges



## Solutions

Processes which Local Governments can implement to enhance low emissions development in their communities



## Solution Packages

A group of Solutions under a given theme, clustered to generate synergies and optimize impacts



## Case Studies

Examples of the implementation of Solutions and/or Solutions Packages by cities



# TAP

Transformative  
Actions  
Program

[HOME](#)

[ABOUT](#)

[APPLY](#)

[TAP PROJECTS](#)

[EVENTS](#)

[NEWS](#)

[CONTACT](#)



# TRANSFORMATIVE ACTIONS PROGRAM (TAP)

TAP the potential of local and subnational climate action!



# 转型行动计划 - 协助气候融资

## Transformative Action Program

[HOME](#)[ABOUT](#)[APPLY](#)[TAP PROJECTS](#)[EVENTS](#)[NEWS](#)[CONTACT](#)

## Ulaanbatar, Mongolia

### THERMO-TECHNICAL REHABILITATION OF PRECAST PANEL BUILDINGS IN ULAANBAATAR CITY

**Focus:** Mitigation

**Sector(s):** Carbon reduction / Low-carbon transition

Ulaanbaatar's housing stock is dominated by pre-cast concrete panel buildings from the 1970s, 1980s and early 1990s. The buildings are in poor condition because of their age, poor or nonexistent maintenance and lack of insulation. Ulaanbaatar's harsh climate and the panel buildings' decaying state lead to severe problems affecting the health and well-being of residents. Rehabilitation will not only improve the residents' well-being but also prevent an important part of Ulaanbaatar's housing stock from decaying and turning into slums. Substantial energy savings can also be achieved as heat loss will be reduced. This will contribute to climate change mitigation and free up energy capacity for the city's future growth.

Name of government:	Ulaanbaatar City
Country:	Mongolia
Population:	1,314,500 (2014)
Area:	4704.4 km <sup>2</sup>



## 例子2：东亚清洁空气城市

### Example 2: East Asia Clean Air Cities

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We aim to address:

1. Easing complexity of international and regional cooperation in the field of air quality
2. Peer-to-peer learning as driving force on air quality improvement



# 东亚清洁空气城市

## EAST ASIA CLEAN AIR CITIES

ONE REGION | FOUR CAPITALS | NINE LOCAL GOVERNMENTS





**致力于改善区域空气质量的东亚城市协作网络**

**A long-term multi-lateral collaboration network for  
East Asian cities committed to tackling air pollution.**



北京 BEIJING  
 首尔 SEOUL  
 东京 TOKYO  
 乌兰巴托 ULAANBAATAR  
 深圳 SHENZHEN  
 贵阳 GUIYANG  
 济南 JINAN  
 四川 SICHUAN  
 北九州 KITAKYUSHU



EACAC.NET



## 项目宗旨

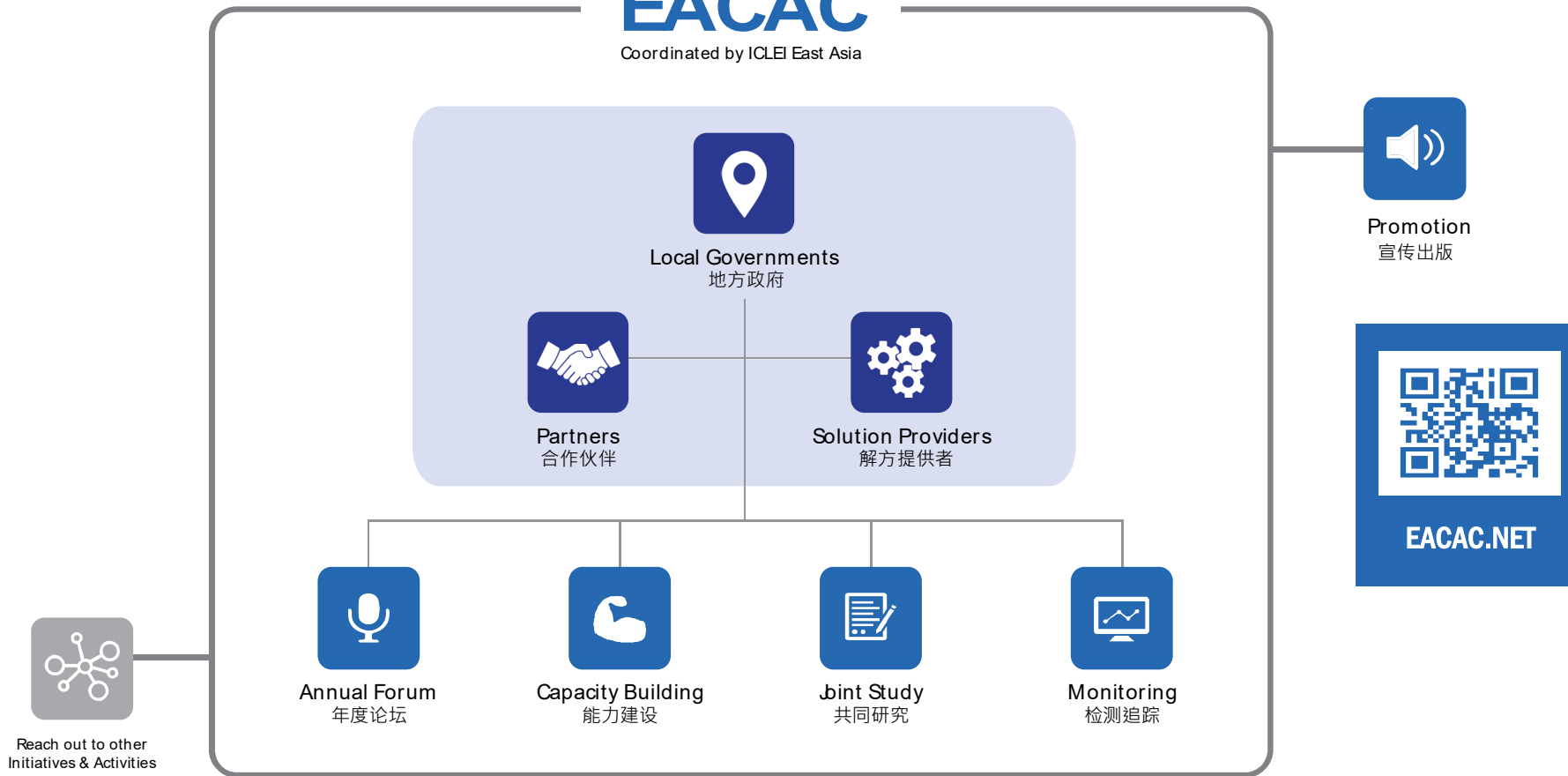
### Objectives

- ▶ **建立城市空气质量交流合作机制**  
Establish a city cooperation mechanism for knowledge exchange on air quality improvement
- ▶ **协助东亚城市取得最新空气污染解决方案，建设地方能力**  
Assist East Asian cities to access solutions and build local capacity to address air pollution
- ▶ **提供最佳实务政策，让城市一同做出贡献、追踪进展、获得支持**  
Provide best practice policies towards which cities may contribute, track progress, and receive support



# EACAC

Coordinated by ICLEI East Asia



Reach out to other Initiatives & Activities

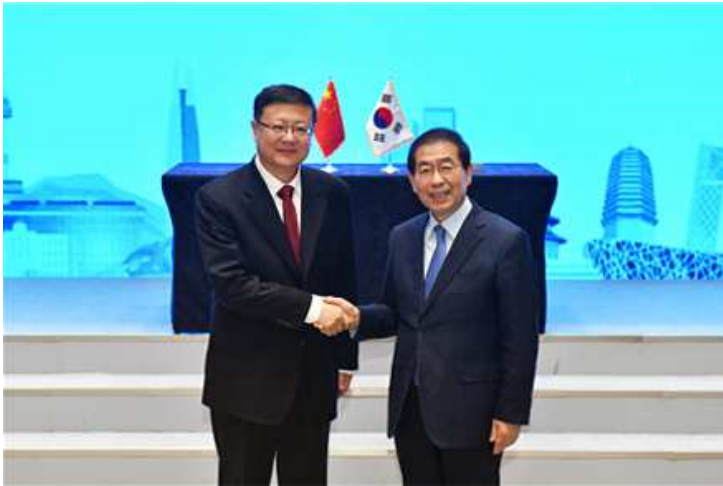


Promotion  
宣传出版



EACAC.NET





The 3<sup>rd</sup> meeting of Seoul-Beijing Joint Committee  
Beijing-Seoul workshop on ways to reduce fine dust and volatile organic compounds  
Seoul, South Korea | 2018.3.19 - 20



## 地方政府 LOCAL GOVERNMENTS

承诺通过多变合作齐力提升区域空气质量的东亚城市。

East Asian cities committed to taking actions for air quality improvement through cooperation with other cities.





## 合作伙伴 PARTNERS

能够提供地方政府提升空气质量相关活动、项目支援的政府机构、民间单位、国际组织和研究机构等。

Governmental agencies, NGOs, international organizations and research institutes specializing in air quality improvement activities and programs that support cities.



中国环境科学研究院  
Chinese Research Academy of Environmental Science



中国清洁空气联盟  
Clean Air Alliance of China



清洁空气创新中心  
Innovation Center for  
Clean-air Solutions



Institute for Global  
Environmental Strategies



University of Seoul  
Atmosphere Engineering  
Research Lab



Seoul Research Institute of Public  
Health and Environment



STOCKHOLM  
ENVIRONMENT  
INSTITUTE



ENERGY FOUNDATION  
能源基金会



MONGOLIA  
INTERNATIONAL  
UNIVERSITY



Norwegian University of  
Science and Technology



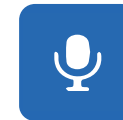


## 解方提供者 SOLUTION PROVIDERS

能够针对改善空气质量提供地方政府专业技术、知识、工具和指南的专家、学者和私营机构等。

Experts, researchers, and private sector stakeholders that are able to provide cities with innovative technologies, expertise, tools and guidelines for air quality improvement.





## 年度论坛 ANNUAL FORUM

### 第七届东北亚空气质量提升论坛 7th Northeast Asia Forum on Air Quality Improvement

2017.6.1 ▶ 6.2 | Seoul, Korea







# 年度论坛 ANNUAL FORUM

## 第七届东北亚空气质量提升论坛 7<sup>th</sup> Northeast Asia Forum on Air Quality Improvement

东亚城市行动—EACAC 地方行动与区域协作  
East Asian Cities in Action Local Practice & Regional  
Synergy through EACAC

2017.6.1 | Seoul, Korea





## 能力建设 CAPACITY BUILDING

### 空气污染协和气候变化同控制培训 Training Program on Climate Change and Air Pollution Co-Control

2017.4.24-27 | Seoul, Korea

ICLEI  
Local  
Governments  
for Sustainability  
East Asia

SHRDC  
Seoul Human Resource  
Development Center

IGES  
Institute for Global  
Environmental Strategies

SEI STOCKHOLM  
ENVIRONMENT  
INSTITUTE





## 能力建设 CAPACITY BUILDING

### 城市空气污染解决之道： 东亚城市最佳实践 Tackling Urban Air Pollution: Best Practices in East Asia

2017.5.31 | Seoul, Korea





## 能力建设 CAPACITY BUILDING

### 中国城市赴日技术交流 Japan Study Tour for Chinese Cities

2017. 9.11 ▶ 9.15 | Tokyo, Japan



北京市 Beijing City | 深圳市 Shenzhen City |  
湖南省 Hunan Province | 山西省 Shanxi  
Province | 贵阳市 Guiyang City | 长沙市  
Changsha City | 青海省 Qinghai City | 朔州市  
Shuozhou City | 盐城市 Yancheng City





## 共同研究 JOINT STUDY

### “净化乌兰巴托”项目 “Green Lung” Research & Urban Greening Project in Ulaanbaatar Ger Areas

2017.6 ▶ 2018.6 | Ulaanbaatar, Mongolia



- 三政府层级  
3 levels of government
- 学术研究机构  
Academia for research & technology
- 市民参与  
Citizen engagement





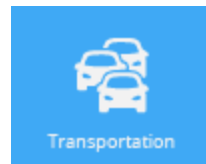
## 长期目标 in the long-term

针对空气质量相关领域制定  
最佳实践配套政策

Develop a air quality-related **best practice policy package** across key areas



Waste Management



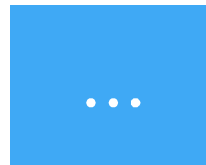
Transportation



Air Quality Data



Household  
Pollution



排放标准  
Emission Standards

高效大众运输  
Efficient Mass Transit

无烟车辆  
Soot-Free Vehicle Fleet

步行和单车道  
Walking & Cycling Paths

绿色货运  
Green Freight



# 未来前瞻

## Looking Forward

- Continuing to understand well the linkage on reducing climate pollutants (carbon peaking) and air pollutants (achieving air quality standards)
- While many actions are effective, the challenge remains more on air pollution than climate change considering its complexity: weather conditions, dispersion, secondary reactions ...
- Integrating policies – difficulty but necessary; awareness & capacity building
- 继续深入了解减少气候污染物（碳峰值）和空气污染物（达到空气质量标准）的关联；
- 虽然许多减排行动都是有效的，但空气污染的量化及改善面临的挑战更多，因其有很高的复杂性，天气条件，分散模式，二次反应等.....
- 整合的政策 - 困难但必须推行; 需提高意识和能力建设



# THANK YOU



**I.C.L.E.I**  
Local  
Governments  
for Sustainability  
East Asia



| [www.iclei.org/eastasia](http://www.iclei.org/eastasia)



| [Iclei-eastasia@iclei.org](mailto:Iclei-eastasia@iclei.org)



| [icleieas](#)