

# Act Locally Link Globally: Translocal Collaboration through C40 Cities Climate Network



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# Climate Change and Cities

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- ❑ Cities are emitting 70% of GHGs.
- ❑ Cities are the most vulnerable places from extreme events of climate change.
- ❑ Cities have own capabilities and policy measures to plan and implement climate mitigation and adaptation policy
- ❑ Cities are forming translocal networks to collectively work on climate change.
  
- ❑ Thus, Cities are places that can achieve eco-efficiency.

# City and Climate Change Networks

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- ❑ The world: C40 Climate Leadership Group; ICLEI's CCP (Cities for Climate Protection)
- ❑ Europe: Covenant of Mayors; Energy cities
- ❑ US: US Mayor Climate Protection Agreement
- ❑ Asia: Asian Cities Climate Change Resilience Network (Gorakhpur, Indore, Surat (India); Bandar Lampung, Semarang (Indonesia); Chiang Rai, Hat Yai (Thailand); Can Tho, Da Nang, Quy Nhon (Vietnam))

# C40 Cities Climate Leadership Group

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- ❑ A network of Cities to tackle climate change collectively
- ❑ 40 Cities (+19 cities around the world)
- ❑ Share best practices & collaboration
- ❑ Partnership with Clinton Foundation
- ❑ Chaired by NY mayor Bloomberg
- ❑ Ten cities of steering committee



# C40 Agenda

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- ❑ Measuring climate change policy performance/ policies (with the ARUP and CDP (Carbon Disclosure Project))
- ❑ Information sharing (Best practices) & new experiments
- ❑ collaboration
- ❑ Focused areas
  - Climate Positive Development
  - Energy efficiency: lighting
  - Green buildings (new buildings and building retrofit)

# C40: Climate Positive Development

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- Clinton Climate Initiative & US Green Building Council
- Reduce GHG emissions and energy use
- 16 CPD projects (Melbourne, Seoul, Stockholm...)
- Comprehensive plan and implementation
  - Develop high efficiency and high performance green buildings
  - Create convenient and cost effective public transit

# C40: Green building

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- New buildings
- Existing building retrofit
- London- RE:FIT project
  - 42 buildings, 7000 tons of GHG reduction annually
  - 7 M pound spending, 1M pound saving annually
- C40 roles
  - Sharing global best practice
  - Providing advice and feedback
  - Helping the framework's project development

# C40: Energy efficiency

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- Aims to improve the energy efficiency of street lighting systems
- C40/CCI build business case by advising on purchasing, financing, and technology
- City of Boston
  - 18,800 lights
  - \$2 million cost saving & 14,844 MWh annual Energy Savings
  - \$6.3 million cost; 3.2 years payback

# Collaboration

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- "process of facilitating and operating in multi-organizational arrangements for solving problems that cannot be addressed by single organizations."
- Collaboration with C40 cities involves exchange of information, joint programs, sharing personnel, etc.



# Key Findings

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- ❑ Collaboration ties are unevenly distributed in the network.
- ❑ "Magnet Effect": Cities having higher level of policy performance are likely to form collaboration ties.
- ❑ Homophily in region matters in collaboration in a translocal network.
- ❑ However, homophily in collaboration mostly takes place in cities of N. America and Europe.

# Implications of climate change networks for cities

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- ❑ Sharing ideas to tackle climate change collectively
- ❑ Facilitating collaboration among cities
- ❑ Consulting from expert groups (CCI, ARUP, USGBC, ICLEI)
- ❑ Innovation and coalition
  - Connecting Delta Cities: adaption policies of Rotterdam, Jakarta, Hong Kong, New York, New Orleans, Ho Chi Minh City
- ❑ Information disclosure
  
- ❑ Asian cities' climate change network?