



IFWEN - Understanding Innovative Initiatives for Governing Food, Water and Energy Nexus in Cities

Project Partners

- 1) FGV/EAESP
- 2) Yale University - Urbanization and Global Change Lab, New Haven (CT), USA
- 3) The Nature of Cities – TNOC, New York (NY), USA
- 4) The Stockholm Resilience Center, Stockholm, Sweden
- 5) Ming-Chuan University (MCU), Department of Urban Planning and Disaster Management (UPDM), Taipei, Taiwan
- 6) ICLEI – Local Governments for Sustainability – (ICLEI-W)
- 7) The Africa Secretariat of ICLEI , Cape Town, South Africa

*Pegasus: GLOCULL and São Paulo

Funded by: FAPESP, NSF, FOMAS, BMBF, MOST, START

Survey (ICLEI Database) - *External and two-way knowledge flow is the most common practice (at least three learning mechanisms).*

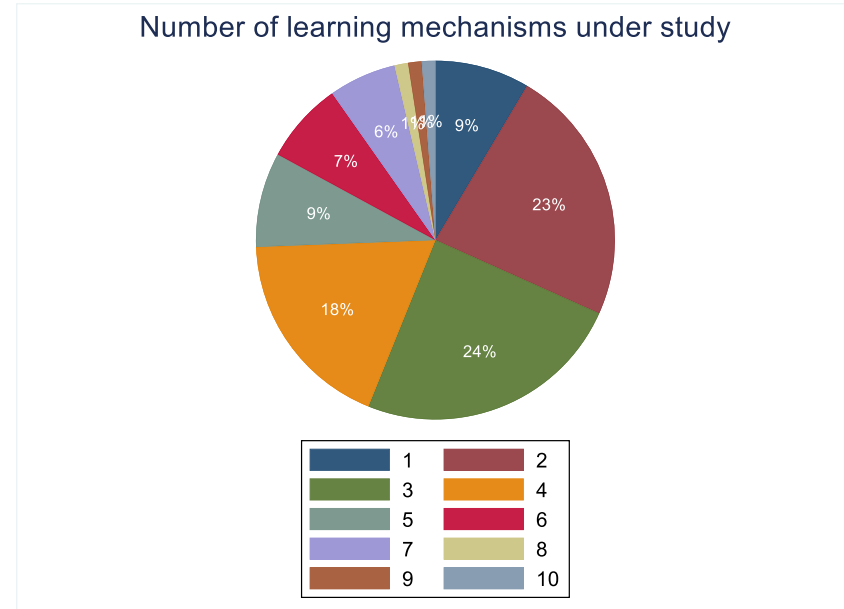
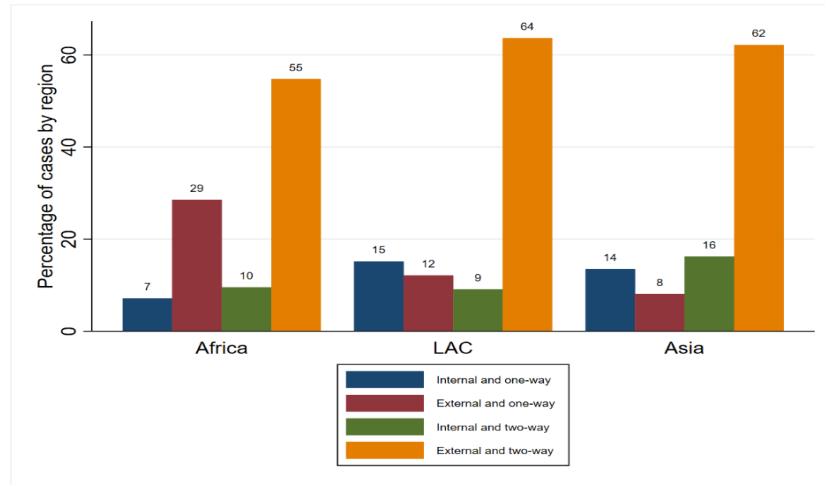
Map the innovations in GBI in ICLEI members

Type of innovation

Why they were created (motivation)

Impacts

Understand the institutional arrangements



2 and 3 – Impacts and Approaches

- Analytical Framework. Creating a framework to explain how cities develop institutions and gain the capabilities to innovate in FWEN based on GBI;
- Guidelines. Developing and disseminating guidelines and tools for supporting cities to use the nexus approach
- Post-Covid City Challenge with MIT-Colab

<https://www.pandemicresponsecolab.org/challenges/2020/the-post-covid19-city>

4 — Pegasus - extension project

Networking and Capacity Building: GOFWEN + Wider network of cities

- 6 cities (South Asia, South America and Africa)
- Provide cities with background and guidelines (step-by-step guide to design GBI for impacting IFWEN)
- Develop a platform to assess learning among the officials using the guidelines and tools

Sao Jose dos Campos, Brazil
533,000 inhabitants



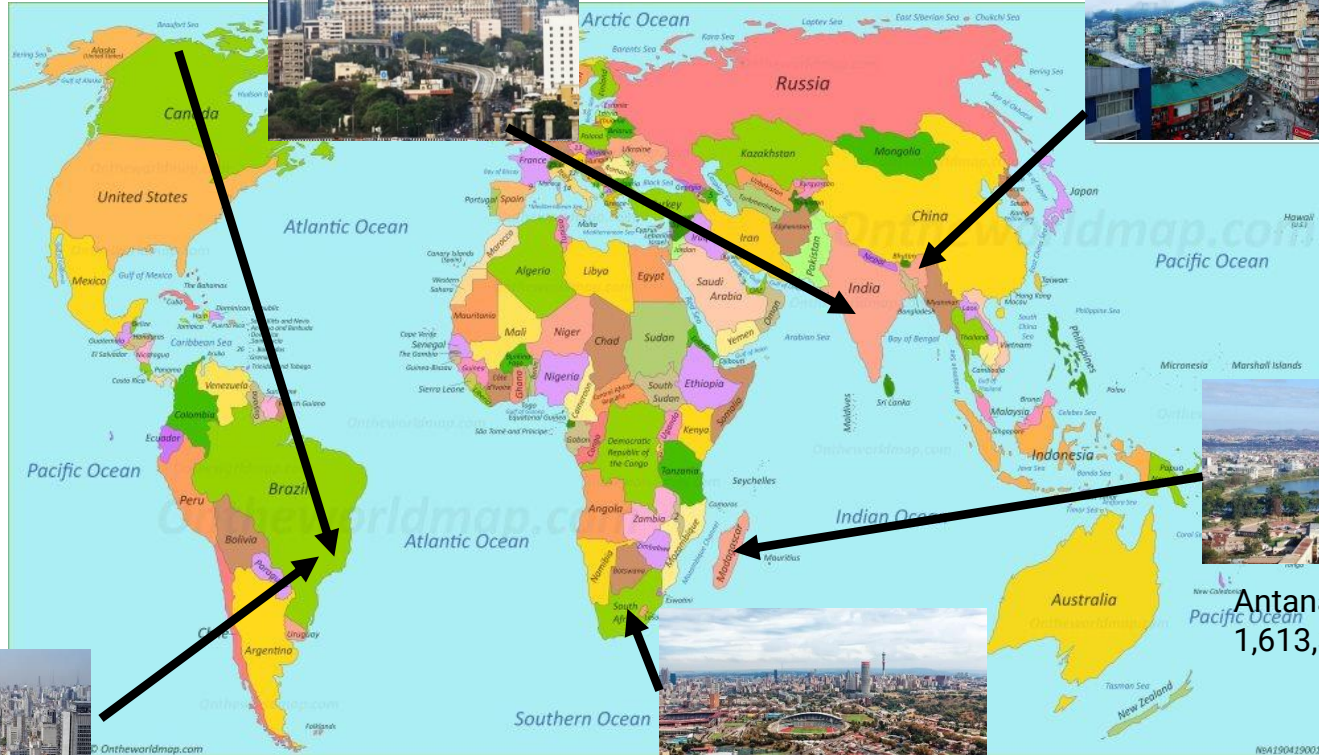
Nagpur, India
2,405,665 inhabitants



Gangtok, India
100,286 inhabitants



São Paulo
12.18 million inhabitants



Johannesburg, South Africa
957,441 inhabitants



Antananarivo, Madagascar
1,613,375 inhabitants



Challenges and potential impacts



- Project management challenges
 - Availability of data (different sources) / Most cities do not have the data
 - Difficulty to establish the FWE nexus / jurisdictional issues (in general 2 of them)
 - Modeling showed to be most more complex than we thought
 - Challenges to translate the concepts in empirical material, and vice-versa
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- Increase the network interactions between cities – cascade effect
 - Improve peer-to-peer learning to foster GBI and FWEN
 - Consolidate learning mechanisms and provide information for funders

Thank you!

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