

# Innovative Governance of Food-Water-Energy Nexus in Cities An IFWEN Training Program 16 September 2021

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#### Introduction

Collaborative governance: Linking public engagement with small scale GBI projects to facilitate larger impact.

#### Recap

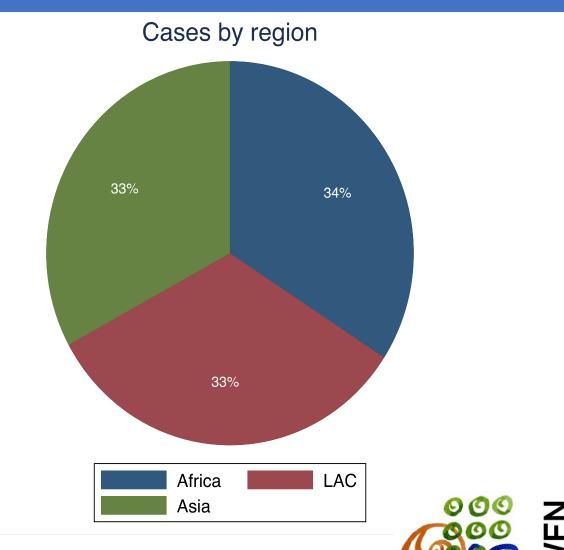
Urban Green and Blue Infrastructure (GBI) is an interconnected network of natural and semi-natural (urban) areas, including vegetation and water elements, as well as other environmental features, integrated with the built environment... its key aspects are connectivity and multifunctionality to benefit urban populations.

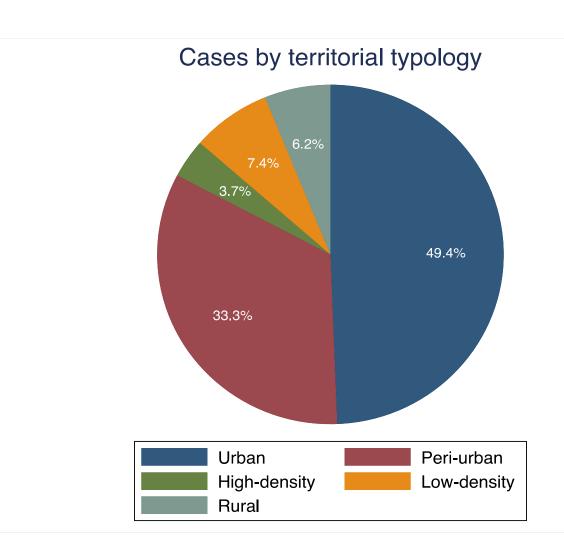
#### **GBI innovation Survey 2020**

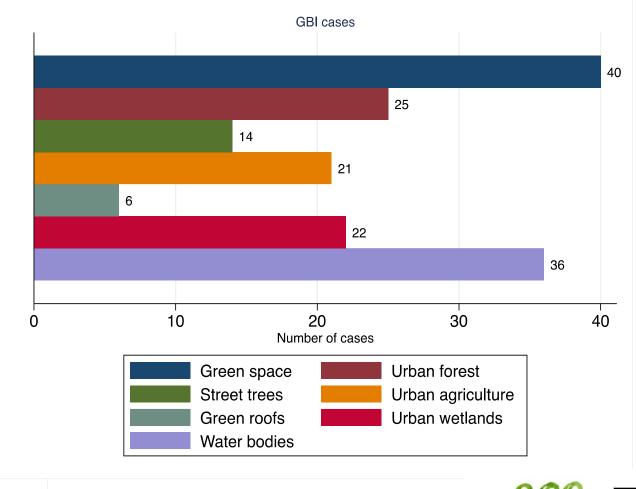
**Object**: GBI projects to improve urban sustainability in local governments in developing countries in Asia, Africa, and Latin America and the Caribbean (LAC).

Final sample: 82 local governments across 30 countries, members of transnational municipal networks (TMNs), particularly ICLEI, engaged in climate change and biodiversity protection projects. Information about GBI projects publicly available in websites.

**Results:** Balanced distribution among regions



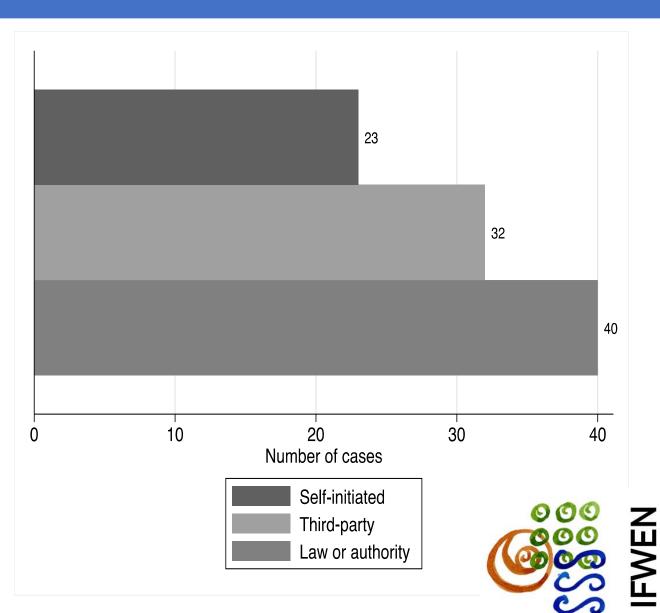






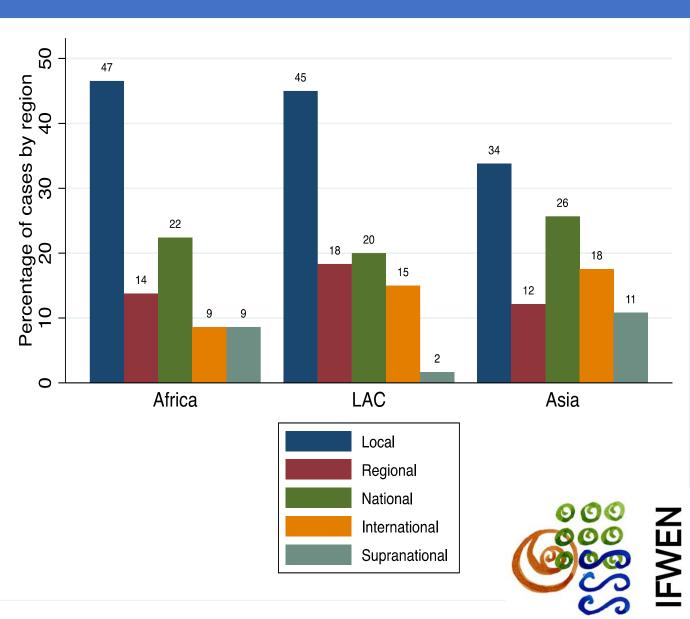
#### **Drivers for GBI projects**

- Law or authority is the most common driver to jump start a collaboration
- GBI projects in LAC were mostly selfinitiated
- Most Asian cases were initiated by law or authority
- Third-parties (e.g., NGOs) as well as law and authority were key drivers for the African cases.



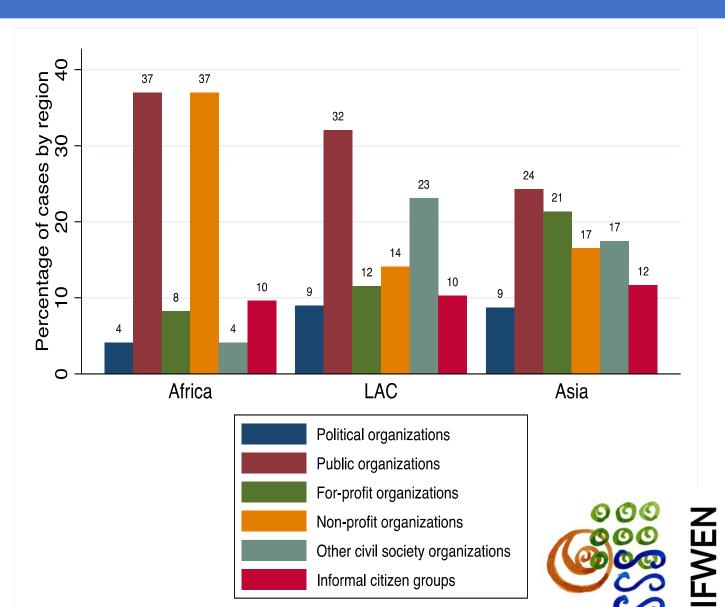
#### **Collaboration per jurisdiction**

- Most cases include multi-level governance of at least 3 jurisdictions
- Local government level predominates in projects in all regions
- The importance of local and national governments in GBI implementation is more evident in low-income countries.
- **Supranational participation** is more common in Asian countries and lower-middle income countries.



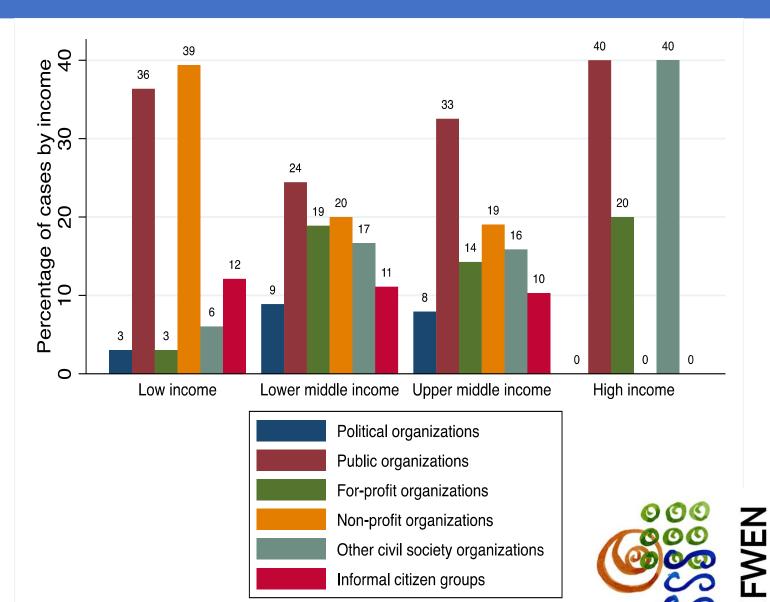
#### Intersectoral collaboration in regions

- At least 3 organizations from different sectors are part of collaborative setting
- Public organizations' importance varies by region
- Non-profit organizations and public organizations are equally predominant in African cases
- For-profit organizations are almost as important as public organizations in Asia.



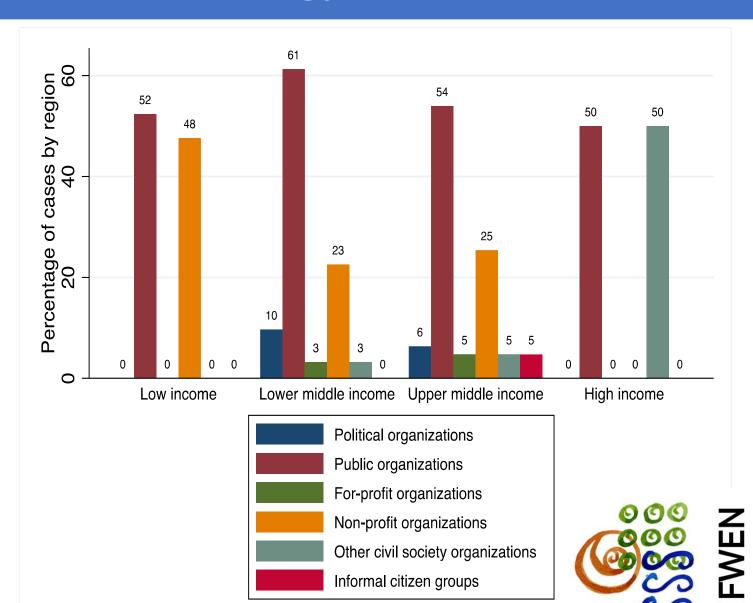
#### Intersectoral collaboration per country income

- CSOs and public organizations are equally predominant in high income countries
- Non-profit organizations prevail in low-income countries, whereas public organizations are the least important.
- Informal citizen groups are more present in low-income countries, not at all in high-income countries
- Political organizations are the least mentioned players in all cases per income, not at all in high-income countries



#### Leadership role of organizations per income

- The leadership role of public organizations is predominant in all regions
- Non-profits are almost as important in low-income countries, and not at all in highincome countries.
- Informal citizen groups are leaders of GBI initiatives only in upper middle-income countries, and not at all in any other.





#### Florianópolis, Brazil

Top-down meets bottom-up

Community vegetable garden in daycare center (NEIM Poeta), 2021.

Source: City of Florianópolis, Cultiva Floripa program.

http://cultivafloripa.pmf.sc.gov.br





#### Taipei, Taiwan

Paddy field in primary school using harvested rainwater, 2020

Source: Erich Hellmer, in IFWEN case studies series, 2021





#### Lilongwe, Malawi

Lingazi River greening, 2020

Source: UNA Rivers Project, ICLEI AFRICA





#### São Paulo, Brazil

Connecting the Dots: periurban farming and sustainable agriculture project

Source: São Paulo, Urban
Development Municipal
Secretariat, 2019
https://ligueospontos.prefeitura.sp.go
v.br/midia\_\_trashed/galeria-2/



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#### **THANK YOU!**

To all of you attending this session.

To the organizers of this training course.

To the participating cities and their dedicated staff.

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