

Recycling networks

Grassroots resilience tackling climate, environmental and poverty challenges



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Introduction

Millions of informal waste pickers collect household waste daily in cities around the globe to earn a living. In doing so they make a significant contribution to reducing the carbon footprint of cities, recovering resources, improving environmental conditions and health of low-income residents, creating jobs and income among the poor.



Waste pickers in Managua. La Chureca



Waste pickers in Kisumu. Kachok Dumpsite

Aim and research questions

The project aims at examining the challenges that innovative grassroots networks encounter and the livelihoods they generate, to improve recycling and household waste collection in informal settlements of global South cities. Strengthening of such initiatives, networks and practices promotes grassroots resilience, contribute to reduce both the adverse impact of cities on climate and environmental change (UN sustainable development target 11.6) as well as urban poverty (UN sustainable development goal 8).

The project offers a critical inter- and transdisciplinary perspective on the issue of organizing resilience against climate and environmental change through grassroots initiatives such as cooperatives, associations, community-based organizations, public-private partnerships and networks.

References

- Mair, J. and Marti, I. (2006) Social Entrepreneurship Research: A Source of Explanation, Prediction, and Delight, *Journal of World Business*, 41 (1): 36–44.
- Hardy, C. and Maguire, S. (2008) Institutional Entrepreneurship, in R Greenwood, C Oliver, R Suddaby and K Sahlin-Andersson (Eds.), *Institutional entrepreneurship: The SAGE Handbook of Organizational Institutionalism*, pp. 198–217.
- Folke, C. (2006) Resilience: The emergence of a perspective for social–ecological systems analyses. *Global Environmental Change*, 16 (3): 253–267.
- Smith, A., Fressoli, M. Abrol, D. Around, E. and Ely A. (2017) Grassroots innovation movements. Pathways to sustainability. Routledge: London.

The project addresses the following questions:

- Q1.** Processes: How do these grassroots initiatives and networks operate to bring about socio-environmental and economic change?
- Q2.** Challenges: What are the organizational, institutional, social, and material challenges encountered in the creation, development and stabilization of these initiatives and networks?
- Q3.** Opportunities: How can such difficulties be overcome?

Methodology

The project's methodology is inspired by participatory action research through a combination of:

- a multiple case study on waste picker initiatives in Managua (Nicaragua), Dar es Salaam (Tanzania), Buenos Aires (Argentina) São Paulo (Brazil) and Kisumu (Kenya), based on interviews, observations, workshops and document analysis
- joint knowledge co-production with regional and global waste picker networks performing as knowledge hubs for the project
- an in-depth case study of the city of Kisumu, where the learnings from the multi-case studies will be integrated and
- international joint research and waste picker seminars to co-produce knowledge to conceptualize solutions to the challenges

Theories

Theoretically, the project will contribute to applying and expanding a combination of theories of socio-environmental (e.g. Mair & Marti 2006) and institutional entrepreneurship (e.g. Hardy & MacGuire 2008) with resilience (e.g. Folke, 2006) and grassroots innovation theories (e.g. Smith et al, 2017).

Preliminary results

- The potential of informal recycling networks to create green employment growth and recycling jobs among low-income residents.
- Waste management pilot projects supporting social entrepreneurs have transformed city management practices in informal settlements, leading towards hybrid models that combine formal and informal practices, with modern and traditional technologies.
- Small-scale waste pickers initiatives providing household waste collection in informal settlements provide innovative solutions driven by a rationality to address social and environmental challenges in their neighborhoods.
- They also transform the institutional arrangements improving political, legal and organizational conditions for the delivery of environmental services; challenge notions of the public and responsibility in environmental governance .
- Unlike the standardized knowledge generated by donors and international organizations through 'best practices', easy to pack but often difficult to replicate in other contexts, these South-to- South bottom-up networks bring in locally developed, innovative and flexible solutions, and also learnings from their failures.
- The co-production of novel knowledge by practitioners and scholars, that help understanding the challenges of grassroots resilience for a low carbon society, in the context of Southern cities.

Research team

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