Sustainable Urban Development and Globalization

New strategies for new challenges—with a focus on the Global South
## Contents

Sharing Knowledge for Change. Universities and New Cultures of Cooperation: Transnational Research and Higher Education for Sustainable Global Urban Development ................................. xiii
Agostino Petrillo and Paola Bellaviti

**Part I  Urban Growth and Rising Socio-spatial Inequality: Research Pathways and Approaches to Urban Planning and Governance**

Development Against Sustainability? Marrakech as a Case Study .......... 3
Laura Montedoro

Metropolitan Public Realm Frameworks for Coastal East African Urbanization: The Case of Malindi Waterfront as Socio-Ecological Infrastructure ...................................................... 17
Alessandro Frigerio

Mobile Urbanity in Southern Africa. The Socio-Spatial Practices of Informal Cross-Border Traders Between Johannesburg and Maputo ......................................................... 33
Paola Piscitelli

Humanizing Urbanism. On Embracing Informality and the Future of Johannesburg ......................................................... 49
Costanza La Mantia

Urban Planning in Islamabad: From the Modern Movement to the Contemporary Urban Development Between Formal and Informal Settlements ......................................................... 65
Daniele Beacco

Pacification of Favelas, Mega Events, and the Creation of New Inequalities in the Global South: The Case of Rio de Janeiro ............ 75
Sebastian Saborio and Giuliana Costa
The Role of State Involvement in Slum Improvement: A Critical Examination of Cofopri Approach into a Peripheral Barrio of Lima, Peru .......................................................... 85
Nilva Karenina Aramburu Guevara

Valentina Mion

Share for Care. Communication Technologies and Social Inclusion for Empowerment in Guayaquil, Ecuador .......................................................... 117
Veronica Vasilescu, Francesca Vigotti and Andrea Cominola

Enhancing Participation Through ICTs: How Modern Information Technologies Can Improve Participatory Approaches Fostering Sustainable Development .......................................................... 131
Domenico Vito

Part II Design Strategies and Building Techniques for Development in Marginal and Rural Areas

Architectural Design in the Cities of the Global South .......................................................... 149
Camillo Magni

Bioclimatic Design for Informal Settlements ........................................................................ 157
Gian Luca Brunetti

Housing in African Rural Contexts: The Nubian Vault. Opportunities for the Economic Market in the Rural Savannah Environments .......................................................... 173
Emilio Caravatti

National Public Primary Schools Strategic Planning: A Key Factor to Ensure Quality Education Enrollment in Developing Countries .......................................................... 189
Luca Bonifacio

The Tourism as Local Development Leverage: The Restaurant/Guest house of Olga’s and the Professional School YCTC in Livingstone, Zambia .......................................................... 197
Lidia Diappi

The Mantra of Modernity ........................................................................................................ 209
Maddalena d’Alfonso and Jacopo Galli
### Part III  Protection and Enhancement of Cultural Heritage Amid Conservation and Development

**Research, Interventions and Training for Cultural Heritage Safeguard and Enhancement. Lesson Learned from 50 Years of Studies and Projects Implementation in Armenia** ............................................. 221
Mariacristina Giambruno and Gaianè Casnati

**Landscape Quality and Multifunctional Agriculture: The Potential of the Historic Agricultural Landscape in the Context of the Development of the Contemporary City** ........................ 239
Maurizio Boriani

**Cultural Heritage for Urban Regeneration. Developing Methodology Through a Knowledge Exchange Program** .......................................................... 251
Mariacristina Giambruno and Sonia Pistidda

**Learning by Practice from an Early Researcher Perspective. Investigating Widespread Heritage in Transition Countries** ......................... 263
Francesca Vigotti

**Minor Settlements: Setting up a Network of Creative and Sustainable Communities** .................................................. 275
Paolo Ceccarelli

**The Heritage Value of the Craft Sector in Fast-Growing Cities** ......................... 289
Laura Pierantoni

### Part IV Integrated Strategies to Reduce the Territorial Risks

**Resilience Thinking as a Useful Approach to Reduce the Territorial Risks** .................................................. 301
Marcello Magoni

**New Strategies and Four-Layer Approach for Disaster Risk Management in Complex City Environments** .................................................. 309
Funda Atun

**The Economic Impacts of Natural Hazards: Lessons Learnt from the PDNA International Damage Assessment Project Implemented in Haiti After the Earthquake of 2010** .................. 321
Giulia Pesaro

**Perceiving Urban Resilience Within Post-quake Recovering Processes. An Experimental Approach for Emergency Housing in Emilia Romagna, Italy** .................. 333
Doaa Salaheldin Ismail Elsayed
Climate Change and Heat Waves in Colombia. Possible Effects and Adaptation Strategies .................................................. 351
Marcello Magoni and Carolina Mesa Munoz

Part V Managing the Agro-urban System and the Food-Energy-Water Nexus

Social-Ecological Implications of the Quinoa Market Teleconnections:
Intervention Criteria on the Southern Bolivian Altiplano ............ 365
Guido Minucci

Socio-Environmental Effects of Large-Scale Land Acquisition in Mozambique .......................................................... 377
Maria Cristina Rulli, Corrado Passera, Davide Danilo Chiarelli and Paolo D’Odorico

The Narrative Structure of the Agro-Urban Metropolitan Territory.
The Metropolis as Hypertext for the History of the Twenty-first
Century: A Network of Middle Cities as an Operational
Topography ........................................................................... 391
Antonella Contin

Resource Efficiency and Resilience in Sub-Saharan African Cities:
Towards Community Metabolism ........................................... 407
Maria Chiara Pastore and Eugenio Morello

Part VI The International Workshop “Transforming Johannesburg”. A Multi-disciplinary Action Research on Collaborative Approaches to Socio-ecological Urban Development in Informal Areas

The International Workshop “Transforming Johannesburg:
Reshaping Socio-Ecological Landscapes Through Collaborative Practices” ......................................................... 419
Costanza La Mantia

Engaging the Informal and Formal in an Expanded Notion of Urban Infrastructure: How Healing Human and Ecological Networks Could Lead to a More Equitable City .................................. 433
Alessandro Frigerio and Kristen Kornienko

Eco-Incremental Housing: Researching Typologies and Systems in Pursuit of a Community-Based Approach to Housing Upgrades in Informal Contexts ......................................................... 449
Chris Harnish

Appendix ................................................................................. 463