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| Nota di contenuto | Part 1: HOUSING MODELS, BECOME – Business ECOSystem design for sustainable settlements in Mogadishu -- New foundation cities -- Strategic project for the development of socio-assistance architecture in the marginal contexts of sub-Saharan Africa. The case study of the Gamba Deve - Licoma axis -- PART 2: ENERGY AND BUILT ENVIRONMENT, Sustainable Building Design for Tropical Climates -- Development of an Interactive Building Energy Design Software -- SPARK – Solar Photovoltaic Adaptable Refrigeration Kit -- PART 2: RECYCLING, Ski Yurth: Upcycle of downhill skis for a shelter in Cachine – |

Guinea Bissau -- Comprehensive Feasibility Study for the Closure of the Informal Dumpsite and Construction of an Integrated Sustainable Waste management Facility in Kajiado County, Kenya -- Part 4: ENVIRONMENT AND EMERGENCY, Borboleta and Papagaio: Emergency unit and children's nutritional center in Farim - Guinea Bissau -- Novel textile-based solutions of emergency shelters: case-studies and field tests of S (P)EEDKITS Project -- The Mo.N.G.U.E. Development and Experimentation Project in Mozambique -- PART 5: PAST, PRESENT AND FUTURE, Low-cost digital tools for archaeology -- Digital workflow to support archaeological excavation: from the 3D survey to the websharing of data -- Tools for Reading and Designing the 'Islamic City'. Italian urban studies at the crossroads.

Sommario/riassunto

This open access book explores key issues and presents recent case studies in areas of importance for the transition to a circular model of development in emerging African countries that will minimize resource consumption and waste production. The topics covered include the development of sustainable housing models, energy and environmental issues in building design and technical systems, recycling for a sustainable future, models for humanitarian emergencies, and low-cost and web-based digital tools with applications in architecture and archaeology. The aim is to contribute to a necessary paradigm shift with respect to urban planning and usage of territories, moving from a linear urban metabolism based on the "take, make, dispose" approach to a circular metabolism. Such a change requires a focus on the relationship between the architectural, urban, and physical aspects of new developments, climate, and energy demand, as well as the identification and integration of strategies and infrastructures to achieve a high level of efficiency and self-sufficiency. The book will appeal to all with an interest in sustainable development in the African context.
