African Capabilities Approach Studies (Interdisciplinary -

Urban Waste Management and Biodiversity Conservation in Durban: A Cost-Benefit Analysis

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Abstract

Urban waste management (UWM) in Durban, South Africa faces challenges that impact biodiversity conservation efforts. A mixed-methods approach combining quantitative data analysis with qualitative case studies. The study concludes that UWM can significantly contribute to biodiversity conservation if implemented and managed effectively. Investment in sustainable UWM practices should be prioritised for future environmental sustainability goals.

Keywords: *Urbanization, Biodiversity Loss, Waste Segregation, Ecological Economics, Sustainable Development Goals, Participatory Planning, Community Engagement*

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