



# Adoption Rates and Cost Savings in Eco-Friendly Waste Management Systems Among Urban Slum Residents in Kampala, Uganda

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### Abstract

Eco-friendly waste management systems have been implemented in various urban slums to address environmental challenges associated with solid waste disposal. A comparative study design was employed using structured interviews and cost-benefit analysis. In the pilot phase (), only 30% of surveyed households adopted a composting system, with an average annual savings of 15 per household  $\in$  waste disposal costs. The study highlights the need for tailored intervention strategies  $\hat{\epsilon}$  increase  $Y = \beta_{0+\beta} p X + \text{varepsilon}$  \$,  $\wedge$  inference is reported with uncertainty – aware statistical criteria.

**Keywords:** African Geography, Slum Living Conditions, Solid Waste Management, Cost-Benefit Analysis, Sustainable Development Strategies, Participatory Methods, Quantitative Research Design

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