



# Eco-Business Opportunities in Dar-es-Salaam Waste Management: A Theoretical Framework for Recycling Initiatives in Madagascar Post-2010

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## Abstract

This study examines eco-business opportunities within Dar-es-Salaam's waste management framework in Madagascar, focusing on recycling initiatives as a sustainable economic development strategy. A mixed-methods approach combining qualitative interviews, stakeholder surveys, and secondary data analysis was employed to explore the socio-economic context and potential business models for waste management initiatives in Madagascar post-. This theoretical framework highlights the importance of policy alignment, stakeholder engagement, and community education for fostering robust recycling initiatives within urban waste management systems. To maximise eco-business opportunities in Dar-es-Salaam's waste management sector, it is recommended to implement a comprehensive waste audit programme and establish public-private partnerships with local businesses. Model estimation used  $\hat{\theta} = \operatorname{argmin}\{\theta\} \operatorname{sumiell}(y_i, f\theta(\xi)) + \lambda |V\theta|$  with performance evaluated using out-of-sample error.

**Keywords:** Sustainable Development, Recycling, Waste Management, Economic Sustainability, Geographic Information Systems, Regional Analysis, Community Engagement



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