

Enablers and Inhibitors of Effective Waste Management Measures in Informal Settlements in South Africa: A Case of Alaska

Authors : Lynda C. Mbadugha, Bankole Awuzie, Kwanda Khumalo, Lindokuhle Matsebula, Masenoke Kgaditsi

Abstract : Inadequate waste management remains a fundamental issue in the majority of cities around the globe, but it becomes a threat when it concerns informal settlements. Although studies have evaluated the performance of waste management measures, only a few have addressed that with a focus on South African informal settlements and the reasons for their apparent ineffectiveness in such locations. However, there may be evidence of variations in the extant problems due to the uniqueness of each location and the factors influencing the performance. Thus, there is a knowledge deficit regarding implementing waste management measures in South African informal settlements. This study seeks to evaluate the efficacy of waste management measures in the Alaska informal settlement in South Africa to assess the previously collected data of other areas using the degree of correlation. The research investigated a real-world scenario in the specified location using a case study approach and multiple data sources. The findings described various waste management practices used in Alaska's informal settlements; however, a correlation was found between the performance of these measures and those already used. The observed differences are primarily attributable to the physical characteristics of the locations, the lack of understanding of the environmental and health consequences of careless waste disposal, and the negative attitudes of the residents toward waste management practices. This study elucidates waste management implementation in informal settlements. It contributes to the relevant bodies of knowledge by describing these practices in South Africa. This paper's practical value emphasizes the general waste management characteristics of South Africa's informal settlements to facilitate the planning and provision of necessary interventions. The study concludes that the enablers and inhibitors are mainly political, behavioral, and environmental concerns.

Keywords : factors, informal settlement, performance, waste management

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