



Integrative approach for optimizing construction and demolition waste management practices in developing countries

Abeer Abulebdah, Farayi Musharavati and Enas Fares

Department of Mechanical and Industrial Engineering, Qatar University, Doha, Qatar

ABSTRACT

Due to the numerous infrastructure development projects taking place in developing nations, large amounts of construction and demolition waste (C&DW) are unavoidable. Most C&DW management strategies, however, involve 'isolated' operations with high overhead. Waste data transfers are difficult to watch over. Important information needed for decision-making is, therefore, challenging to obtain. This paper's goal is to discuss C&DW management from an integrative standpoint. Using GIS functions and a fuzzy analytical hierarchy approach, the best sites for waste management facilities can be found. A mixed integer optimization model is created to identify optimal location and allocation of waste management facilities. The objective is to reduce waste collection costs under different operational scenarios. By incorporating 'constructs elements' and 'connected elements' that are linked, isolated C&DW management ventures are transformed into successful C&DW management ventures. The effectiveness and efficiency of waste management strategies are evaluated using GIS analysis. A dashboard for tracking waste data flows is created to show how stakeholder decision making can be made easier. The proposed integrative approach differs from other approaches since it re-purposes location-allocation models and GIS data to optimize 'isolated' C&DW management practices. In addition, the notion of 'construct elements' that can be time-shared is outlined. Moreover, the notion of 'connected elements' that are dynamic, time-limited, and yet transient enough to provide the necessary interconnectivity is developed to support and complement the seamless function of a network of C&DW management facilities. The usefulness of the integrative approach is illustrated by a case study. Analysis of case studies demonstrates that waste management strategies in developing countries can be made more effective and waste collection efficiency can be increased. According to comparative studies, updating current waste management facilities can cut operating costs by 36%, while implementing an integrative strategy can cut costs by 52%. The discussions in this paper can help towns reevaluate C&DW management and put useful, unified C&DW management techniques into practice.

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Waste management; construction and demolition waste (C&DW); geographic information system (GIS); waste flow dashboard; fuzzy analytical hierarchy process (F-AHP); optimization

1. Introduction and background

Construction projects are significant economic activities that generate substantial amounts of construction and demolition waste (Aslam et al., 2020; Bao & Lu, 2020; Kabirifar et al., 2021). This trend is unavoidable since the amount of waste generated is usually related to the expansion of national economies (Islam et al., 2019; Manowong, 2012; Urio & Brent, 2006; Wang et al., 2022; Yuan, 2013). For example, a quick observation shows that this trend is true especially in quickly developing countries like Qatar, where most of the construction and demolition waste is generated by multiple construction projects running concurrently (Egbelakin et al., 2021). These projects are typically undertaken to address, (i) infrastructure development, (ii) rising urbanization, and (iii) the requirement to satisfy strategic

development objectives (Bao & Lu, 2020). Despite this, it is critical to monitor the development, storage, and disposal of construction and demolition waste (C&DW) to prevent the negative repercussions and burdens associated with a reactive approach to C&DW management (Zhao, 2021). While some of the cities in developing countries aspire quick upgrades to smart city developments, it is critical to balance infrastructural development and construction waste management to avoid, for example, visual effects of waste generation and accumulation—a situation that is not amenable to urbanization and smart city development (Bao et al., 2023; Szpilko et al., 2023).

In the published literature, researchers have developed a waste hierarchy to help in positioning waste management strategies towards sustainable waste

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Regional ,1993 An Integrated Approach to the Management of Production and Marketing Risks in the Primary Sector of the Developing Countries Olivier Matringe,1997 **Whitaker's Books in Print** ,1990 *Ecosystem Approaches and Oceans* United Nations. Open-ended Informal Consultative Process on Oceans and the Law of the Sea. Meeting 2006,2008 The publication presents panel presentations and plenary discussions from interested delegations which resulted in important convergence of opinions The area of focus of the presentation was Ecosystem approaches and oceans 20 individual panelists made presentations on the various aspects of the topic The presentations demonstrate that a lot more is happening than had been understood Nonetheless a lot is still to be done in particular to deal with issues on the high seas where knowledge and governance systems are weak **Project Planning and Implementation in Developing Countries** Dennis A. Rondinelli,Aspy P. Palia,1976 Natural Resources Management in Mainland Southeast Asia ,1995 **UNDOC, Current Index** Dag Hammarskjöld Library,1995 *International Labour Documentation* International Labour Office. Central Library and Documentation Branch,International Labour Organization. Central Library and Documentation Branch,1999 **Seeking an Integrated Approach to Watershed Management in the South Platte Basin** ,1993 □□□□□□□□□□□□□□□□□□ □□□□□□ (Japan),1900

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