

WASTE MANAGEMENT | RESEARCH ARTICLE



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

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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 25%, 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&OW); geographic information system (GS); waste flow dashboard; fluxy 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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<u>Managing Organizations In Developing Countries An</u> <u>Integrative Approach</u>

Harish Mehta

Managing Organizations In Developing Countries An Integrative Approach:

Routledge Handbook of Organizational Change in Africa Franca Ovadje, Samuel Aryee, 2018-08-06 Although change management and therefore effective adaptation to environmental complexity is considered a uniquely human cultural activity the extensive change management literature is largely based on the experiences of organizations in the advanced economies of the West As the economies of African countries become increasingly open African organizations will need to be agile in order to adapt and grow in a dynamic global environment Currently there is a dearth of contextualized knowledge on change management within Africa but this handbook aims to address this by bringing together a wide range of experts to explore organizational change and change management from an African context The handbook adopts a multidisciplinary historical philosophical processual and strategic perspective as well as empirical accounts of change management It addresses such issues as What are the external and internal pressures for change What is the content and process of change management What are the essentials of effective change management How can change management be theorized from an African perspective What sort of leadership can best align with change management demands in an African context How do organizations build internal change management capability It is hoped that answers to these questions contained in the handbook will provide a contextualized understanding of change management which African organizations and scholars can leverage to respond to the threats and opportunities inherent in their increasingly dynamic environment. The handbook should constitute an essential reference for academics researchers and advanced students of change management development studies and African studies as well as practitioners Managing Organizations for Sustainable Development in Emerging Countries Angappa Gunasekaran, Ana Beatriz Lopes de Souza Jabbour, 2017-10-02 Managing Organizations for Sustainable Development in Emerging Countries focuses on the main challenges and opportunities of managing firms and emerging economies in the light of sustainable development One of the key questions of sustainable development is how organizations from developing countries are achieving their economic goals while considering simultaneously environmental issues like conservation of natural resources eco efficiency biodiversity conservation and climate change mitigation These questions are relevant for government industry and urban sustainability However in the modern literature that discusses organizational management for sustainable development few studies focus on the reality of organizations from emerging countries Moreover changing environmental legislation in emerging countries such as China and Brazil will affect organizational managers In this context this book may contribute to organizational management in the search for more sustainable organizations as well as deal with the challenges of managing organizations in the context of increased social problems degradation of natural resources loss of biodiversity and climate change This book was published as a special issue of the International Journal of Sustainable Development World Ecology Handbook of Flood Risk Management in Developing Countries Victor Oladokun, David Proverbs, Oluseye Adebimpe, Taiwo Adedeji, 2023-03-31 This new handbook

brings together various views and experiences of the impacts of flooding and its management in Africa Asia and Latin America by drawing from traditional and modern approaches adopted by communities homeowners academics project managers institutions and policy makers Key stakeholders provide insights and perspectives on flood hazards flood impacts flood control and adaptation strategies across these regions The inclusion of policy makers emergency responders leaders of key organizations and managers of flood defence projects makes this volume a unique addition to the flood management literature The chapters are organized to reveal various impacts and challenges associated with the management of flooding including response and recovery The chapter contributions bring together the different impacts of flooding and propose various mitigation approaches They describe procedures for managing flooding and reducing the impacts from the perspectives of policy makers environmental planners and restorers of flood affected communities Also the book considers some of the related aspects including land use waste management drainage systems security challenges urban planning and development and their contributions to flooding The book s primary target is experienced researchers and practitioners in flood risk management It would also serve as a key text for postgraduate students studying related programmes Inhabitants of flood prone communities in such developing countries will also find the text an important resource for guidance and understanding This multi disciplinary book represents a valuable contribution for a wide range of professionals e g in engineering built environment health retail etc who are interested in flood control and management and or faced with flood Integrated Approaches to Water Pollution Problems J. Bau, J.D. related challenges in the course of their work Henriques, J.P. Lobo Ferreira, J. de Oliveira Raposo, 2003-09-02 Papers presented at the International Symposium of Integrated Approaches to Water Pollution Problems SISIPPA 89 Laboratorio Nacional de Engenharia Civil Lisbon Portugal **June 1989** <u>Innovative Approaches to Fisheries Management</u> Harish Mehta, 2025-02-20 Innovative Approaches to Fisheries Management presents a groundbreaking perspective on the intricate process of managing fisheries We delve into the complexities of this integrated system addressing crucial aspects from information gathering to regulation enforcement Emphasizing a holistic approach we acknowledge the interconnectedness of environmental economic and social factors in maintaining fisheries productivity Through meticulous analysis and consultation we advocate for innovative strategies beyond traditional methodologies Dynamic decision making processes that adapt to changing circumstances ensure sustainable utilization of marine resources Resource allocation is scrutinized to optimize efficiency while preserving fisheries long term viability Central to this approach is recognizing the need for collaboration among stakeholders including governments industry players scientists and local communities By fostering inclusive dialogue and incorporating diverse perspectives we aim to create consensus driven solutions that balance competing interests Ultimately Innovative Approaches to Fisheries Management offers a comprehensive framework for navigating the complex challenges facing fisheries today We advocate for proactive measures prioritizing environmental stewardship economic prosperity and social equity paving the

way for a sustainable future for marine ecosystems and dependent communities An Integrated Approach to Environmental Management Dibyendu Sarkar, Rupali Datta, Avinandan Mukherjee, Robyn Hannigan, 2015-10-05 Covers the most recent topics in the field of environmental management and provides a broad focus on the theoretical and methodological underpinnings of environmental management Provides an up to date survey of the field from the perspective of different disciplines Covers the topic of environmental management from multiple perspectives namely natural sciences engineering business social sciences and methods and tools perspectives Combines both academic rigor and practical approach through literature reviews and theories and examples and case studies from diverse geographic areas and policy domains Explores local and global issues of environmental management and analyzes the role of various contributors in the environmental management process Chapter contents are appropriately demonstrated with numerous pictures charts graphs and tables and accompanied by a detailed reference list for further readings Disease Control Priorities, Third Edition (Volume 2) Robert Black, Ramanan Laxminarayan, Marleen Temmerman, Neff Walker, 2016-04-11 The evaluation of reproductive maternal newborn and child health RMNCH by the Disease Control Priorities Third Edition DCP3 focuses on maternal conditions childhood illness and malnutrition Specifically the chapters address acute illness and undernutrition in children principally under age 5 It also covers maternal mortality morbidity stillbirth and influences to pregnancy and pre pregnancy Volume 3 focuses on developments since the publication of DCP2 and will also include the transition to older childhood in particular the overlap and commonality with the child development volume The DCP3 evaluation of these conditions produced three key findings 1 There is significant difficulty in measuring the burden of key conditions such as unintended pregnancy unsafe abortion nonsexually transmitted infections infertility and violence against women 2 Investments in the continuum of care can have significant returns for improved and equitable access health poverty and health systems 3 There is a large difference in how RMNCH conditions affect different income groups investments in RMNCH can lessen the disparity in terms of both health and financial risk *Integrated Approaches for Sustainable* E-Waste Management Güngör, Aşkıner, Polat, Olcay, 2025-05-14 The growing amount of electronic waste e waste poses significant environmental and health challenges driven by the rapid pace of technological advancement Traditional disposal methods can no longer address the problem requiring a more comprehensive strategy Sustainable management of e waste requires an approach that incorporates technological innovations effective policy regulations responsible consumer practices and efficient recycling systems By integrating these elements it is possible to reduce environmental harm recover valuable materials and promote a circular economy that minimizes waste while maximizing resource efficiency Further examination may ensure the benefits of modern technology do not hinder ecological and human well being Integrated Approaches for Sustainable E Waste Management explores the challenges and opportunities in managing electronic waste sustainably From the design phase to disposal it explores innovative strategies and solutions for minimizing the environmental impact of e

waste while maximizing resource recovery and reuse This book covers topics such as ecotoxicity health risks and blockchain and is a useful resource for biologists business owners academicians researchers and environmental scientists

International Organizations and the Law of the Sea 2002 Barbara Kwiatkowska, Harm Dotinga, Erik J. Molenaar, Alex G. Oude Elferink, Alfred H.A. Soons, 2005-04-01 This is the last volume in the Series Now in its 18th year the NILOS Documentary Yearbook provides the reader with an excellent collection of documents related to ocean affairs and the law of the sea issued each year by organizations organs and bodies of the United Nations system Documents of the UN General Assembly and Security Council Meeting of States Parties to the UN Law of the Sea Convention CLCS ISBA ITLOS Follow ups to the UN Fish Stocks and Small Island States Conferences WSSD ECOSOC UNEP and UNCTAD are reproduced first followed by the documents of FAO IAEA IMO and UNESCO IOC As in the previous volumes documents which were issued in the course of 2002 are reproduced while other relevant documents are listed The NILOS Documentary Yearbook has proved to be of invaluable assistance in facilitating access of the international community of scholars and practitioners in ocean affairs and the law of the sea to essential documentation The entry of the 1982 UN Law of the Sea Convention into force in 1994 and of the Part XI Agreement in 1996 as well as of the UN Fish Stocks Agreement in 2001 coupled with the ongoing follow up to review of the UNCED Agenda 21 by the 2002 Johannesburg World Summit make continuation of this assistance of particular significance in the years to come The members of the Yearbook's Advisory Board are Judges Abdul Koroma and Shigeru Oda of the ICJ UNDOALOS Director Dr Vladimir Golitsyn ITLOS President Dolliver Nelson and Judges Thomas Mensah and Tullio Treves as well as Rosalie Balkin Edward Brown Bernard Oxman and Shabtai Rosenne Revolution Ian R. Calder, 2012-05-16 Blue Revolution upturns some environmental applecarts not for the hell of it but so we can manage our environment better Fred Pearce New Scientist This updated and revised edition of The Blue Revolution provides further evidence of the need to integrate land management decision making into the process of integrated water resources management It presents the key issues involved in finding the balance between the competing demands for land and water for food and other forms of economic production for sustaining livelihoods and for conservation amenity recreation and the requirements of the environment It also advocates the means and methodologies for addressing them A new chapter Policies Power and Perversity describes the perverse outcomes that can result from present often myth based land and water policies which do not consider these land and water interactions New research and case studies involving ILWRM concepts are presented for the Panama Canal catchments and in relation to afforestation proposals for the UK Midlands

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Table of Contents Managing Organizations In Developing Countries An Integrative Approach

- 1. Understanding the eBook Managing Organizations In Developing Countries An Integrative Approach
 - The Rise of Digital Reading Managing Organizations In Developing Countries An Integrative Approach
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Managing Organizations In Developing Countries An Integrative Approach
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Managing Organizations In Developing Countries An Integrative Approach
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Managing Organizations In Developing Countries An Integrative Approach

- Personalized Recommendations
- Managing Organizations In Developing Countries An Integrative Approach User Reviews and Ratings
- Managing Organizations In Developing Countries An Integrative Approach and Bestseller Lists
- 5. Accessing Managing Organizations In Developing Countries An Integrative Approach Free and Paid eBooks
 - Managing Organizations In Developing Countries An Integrative Approach Public Domain eBooks
 - Managing Organizations In Developing Countries An Integrative Approach eBook Subscription Services
 - Managing Organizations In Developing Countries An Integrative Approach Budget-Friendly Options
- 6. Navigating Managing Organizations In Developing Countries An Integrative Approach eBook Formats
 - o ePub, PDF, MOBI, and More
 - Managing Organizations In Developing Countries An Integrative Approach Compatibility with Devices
 - Managing Organizations In Developing Countries An Integrative Approach Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Managing Organizations In Developing Countries An Integrative Approach
 - Highlighting and Note-Taking Managing Organizations In Developing Countries An Integrative Approach
 - o Interactive Elements Managing Organizations In Developing Countries An Integrative Approach
- 8. Staying Engaged with Managing Organizations In Developing Countries An Integrative Approach
 - o Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Managing Organizations In Developing Countries An Integrative Approach
- 9. Balancing eBooks and Physical Books Managing Organizations In Developing Countries An Integrative Approach
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Managing Organizations In Developing Countries An Integrative Approach
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Managing Organizations In Developing Countries An Integrative Approach
 - Setting Reading Goals Managing Organizations In Developing Countries An Integrative Approach
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Managing Organizations In Developing Countries An Integrative Approach

- Fact-Checking eBook Content of Managing Organizations In Developing Countries An Integrative Approach
- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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