

# **A Review on Decision Support Models for Regional Sustainable Waste Management**

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## **Executive Summary**

Many planners and decision makers in the area of municipal solid waste, as yet lack thorough understanding of the whole chain of waste management system and its impact on environmental quality and public health. By fact, with their plans and decisions, they have role on engendering the influence on the urban population and the cityscape formation. There have been publications on the Decision Support Models (DSMs) for regional sustainable waste management to assist planners and decision makers in finding the optimum way to manage municipal solid waste.

However most of existing models are primarily focusing on cost or environmental analysis. There are few that consider other crucial factors such as the demographic condition, the characteristic of urban form and urban infrastructure, land transformation aspects due to urban development, etc. Consequently, such models suffer from deficiencies and are constrained when they meet local cultural requirements. Thus it may leads to imprecise decisions. Those factors are the critical issues from regional development points.

This paper reviews some of DSMs identified in the literature and pointing out the planner and decision makers' contribution to the DSMs development. The main objective of this paper is: 1) compare the models of developed and developing countries; 2) review the urban planner and waste managers' contribution in the development of DSMs identified in the literature; and 3) to suggest some approaches for better waste management DSM.

Findings have shown that models in developed countries have existed already for a long time. Models from developed countries seem to have a wider scope compared to the models from developing countries. But on the contrary, developing countries have more urgent needs to use DSM, mostly due to hygiene issues. Models from both developed and developing countries need to consider social aspects, particularly public involvement.

**Keywords:** municipal solid waste, urban planner, waste manager, decision support model

## **Introduction**

More than 50% of the world's total population today lives in urban areas. Solid waste management is one of the serious issues that are very close-coupled with the increasing world's population and population density. To find most suitable solutions on waste management, decision support models are frequently developed.

# Decision Support Models For Regional Sustainable Development

**Thomas Griffiths**



## **Decision Support Models For Regional Sustainable Development:**

Decision Support Models for Regional Sustainable Development Maria Giaoutzi, Peter Nijkamp, 1993      Regional Development Research in China: A Roadmap to 2050 Dadao Lu, Jie Fan, 2011-12-27 As one of the eighteen field specific reports comprising the comprehensive scope of the strategic general report of the Chinese Academy of Sciences this sub report addresses long range planning for developing science and technology in the field of regional development research They each craft a roadmap for their sphere of development to 2050 In their entirety the general and sub group reports analyze the evolution and laws governing the development of science and technology describe the decisive impact of science and technology on the modernization process predict that the world is on the eve of an impending S T revolution and call for China to be fully prepared for this new round of S T advancement Based on the detailed study of the demands on S T innovation in China s modernization the reports draw a framework for eight basic and strategic systems of socio economic development with the support of science and technology work out China s S T roadmaps for the relevant eight basic and strategic systems in line with China s reality further detail S T initiatives of strategic importance to China s modernization and provide S T decision makers with comprehensive consultations for the development of S T innovation consistent with China s reality Supported by illustrations and tables of data the reports provide researchers government officials and entrepreneurs with guidance concerning research directions the planning process and investment Founded in 1949 the Chinese Academy of Sciences is the nation s highest academic institution in natural sciences Its major responsibilities are to conduct research in basic and technological sciences to undertake nationwide integrated surveys on natural resources and ecological environment to provide the country with scientific data and consultations for government s decision making to undertake government assigned projects with regard to key S T problems in the process of socio economic development to initiate personnel training and to promote China s high tech enterprises through its active engagement in these areas

**Decision support models for regional sustainable development** Maria Giaoutzi, Peter Nijkamp, 1993      **Landscape Modelling and Decision Support** Wilfried Mirschel, Vitaly V. Terleev, Karl-Otto Wenkel, 2020-03-02 This book contributes to a deeper understanding of landscape and regional modelling in general and its broad range of facets with respect to various landscape parameters It presents model approaches for a number of ecological and socio economic landscape indicators and also describes spatial decision support systems DSS frameworks and model based tools which are prerequisites for deriving sustainable decision and solution strategies for the protection of comprehensively functioning landscapes While it mainly focuses on the latest research findings in regional modelling and DSS in Europe it also highlights the work of scientists from Russia The book is intended for landscape modellers scientists from various fields of landscape research university teaching staff and experts in landscape planning and management landscape conservation and landscape policy      **Evaluation in Planning** E.R. Alexander, 2016-04-22 Evaluation is a critical stage in urban and regional planning and development with the

consideration of alternative proposals essential for informed debate and decision Evaluation in planning has become even more important with the new paradigm attempting to integrate economic efficiency with equity sustainability and social responsibility The craft of pre development evaluation has long been influenced by Nathaniel Lichfield and in his honour this book brings together prominent researchers and practitioners to discuss evaluation in planning its conceptual foundations and subsequent development its strengths and persisting dilemmas and its best practices and their potential for improving future planning and development The chapters trace evaluation in planning from its historical origin to current applications Part one reviews the evolution of evaluation theory and practice and part two contains a selection of best practice application The final integrating chapter notes key problems and offers directions for future development in evaluation research and practice

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