

Article

Sustainable Road Maintenance Planning in Developing Countries Based on Pavement Management Systems: Case Study in Baja California, México

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Received: 30 November 2019; Accepted: 14 December 2019; Published: 19 December 2019

Abstract: The objective of this research is to develop a useful procedure that allows the collection, analysis, processing and updating of pavement conditions data, with the vision of generating inputs for the implementation of sustainable strategies for maintenance and rehabilitation of roads, based on pavement management systems. The relevance of this proposal lies in the fact that road management agencies in most of the developing countries have limited resources, staff and data to plan the interventions carried out on road networks. The proposed model comes from a work that has been done since 2014 to date, on the Centinela-La Rumorosa Highway, located in the state of Baja California, Mexico. Results integrate data gathered from analyzing the surface and structural conditions of its pavement and the study area, as well as the operating conditions of the road, including a georeferencing process in order to determine critical points in the network, and simulation to determine the effects of maintenance work carried out annually. It is concluded that the proposed planning model contributes to the improvement of highway performance, since it allows planning and administering the allocation of resources in making appropriate maintenance and rehabilitation decisions. Additionally, it allows to generate valuable inputs for pavement management systems implementation. The foregoing allows road management agencies in developing countries to provide a quality transportation system to their users.

Keywords: pavement maintenance and rehabilitation; pavement management systems; pavement survey data analysis; road administration

1. Introduction

An important number of agencies, companies and organizations have adopted a sustainable approach that focuses on the economic, environmental and social impacts in planning and decision-making [1]; on this matter, pavement management has become increasingly important to the extent that, with the passing of time, roads age and deteriorate. On the one hand, roads have been designed and built for a useful life and it is necessary to take actions to increase their service cycle; on the other hand, funding levels are increasingly limited and better resource management is required in order to attend to a global mobility system that is mostly focused on the use of roads [2]. Pavement Management Systems (PMS), are the set of procedures and tools that are intended to assist road management organizations in the systematic application of processes related to pavement management, particularly the identification of optimal alternatives for network conservation in the short and medium term, as well as the development of maintenance and rehabilitation (M&R)

Road Maintenance Management Systems In Developing Countries

**H. R. Pasindu, Saman Bandara, W. K.
Mampearachchi, T. F. Fwa**



Road Maintenance Management Systems In Developing Countries:

Road Maintenance Management Systems in Developing Countries Organisation for Economic Co-operation and Development,1995 **Highway and Traffic Engineering in Developing Countries** B. Thagesen,2003-09-02 This book provides a complete text on highway and traffic engineering for developing countries It is aimed principally at students and young engineers from the developed world who have responsibility for such work in the third world but will also be valuable for local highway engineers **Rural Road Engineering in Developing Countries** Jasper Cook,Robert Christopher Petts,2023-08-02 Rural Road Engineering in Developing Countries provides a comprehensive coverage of the planning design construction and maintenance of rural roads in developing countries and emerging nations It covers a wide range of technical and non technical problems that may confront road engineers working in the developing world focusing on rural roads which provide important links from villages and farms to markets and offer the public access to health education and other services essential for sustainable development Most textbooks on road engineering are based on experience in industrialised countries with temperate climates or deal only with specific issues with many aspects of the design and construction of roads in developing regions stemming from inappropriate research undertaken in Europe and the USA These approaches are frequently unsuitable and unsustainable for rural road network environments particularly in low to middle income countries This book takes on board a more recent research and application focus on rural roads integrating it for a broad range of readers to access current information on good practice for sustainable road engineering in developing countries The book particularly suits transportation engineers development professionals and graduate students in civil engineering **Road Funds and Road Maintenance** Asian Development Bank,2003 Singling out roads as an important factor in economic development this report presents the findings of a regional technical assistance inquiry carried out to examine the problem of road funding in Asia with the aim of proposing case specific solutions Particular attention is paid to the data collected during road assessments performed in the Kyrgyz Republic Pakistan Uzbekistan and Vietnam Also discussed are a number of possible strategies for combating road maintenance neglect across Asia **Road Maintenance Management Systems in Developing Countries** ,1995 **The Handbook of Highway Engineering** T.F. Fwa,2005-09-28 Modern highway engineering reflects an integrated view of a road system s entire lifecycle including any potential environmental impacts and seeks to develop a sustainable infrastructure through careful planning and active management This trend is not limited to developed nations but is recognized across the globe Edited by renowned authority **Commercial Management and Financing of Roads** Ian Graeme Heggie,Piers Vickers,1998-01-01 Printed on Demand Limited stock is held for this title If you would like to order 30 copies or more please contact books worldbank org Contact books worldbank org if currently unavailable In developing and transition economies 60 to 80 percent of all passenger and freight transport moves by road the main form of access for most rural communities Yet most of the 11 million kilometers of

roads in these economies are badly maintained and poorly managed This paper discusses one of the most effective ways to promote sound policies for managing and financing road networks commercialization It discusses the emerging central concept of bringing roads into the marketplace putting them on a fee for service basis and managing them like a business

Synthesis of National Efforts in Transportation Asset Management Bill Obermann,2002 **A Maintenance Management Framework for Municipal Buildings in Developing Economies** Babatunde Fatai Ogunbayo,Clinton Aigbavboa,Wellington Thwala,2023-02-03 The central aim of this book is to investigate and develop frameworks to aid effective maintenance management of municipal buildings in the education sector of developing economies Using the South African education sector as a case study this book provides readers with two major practical insights Firstly it focuses on the theoretical underpinnings of maintenance management research and introduces a maintenance management model through the development of a conceptual framework This framework aids in explaining the factors underpinning the maintenance of municipal buildings but can also be used in the assessment and management of other public buildings Secondly the book highlights and addresses theoretical gaps in existing studies essential for the maintenance management of buildings in developing economies providing a stimulus for future research The book will be of interest to researchers in construction management building technology estate management civil engineering architecture and urban and regional planning It is an essential manual for policymakers in the education sector built environment construction industry facility maintenance facility management and consultants at government ministries departments and agencies MDAs charged with maintenance management of public infrastructures and assets Road and Airfield Pavement Technology H. R. Pasindu,Saman Bandara,W. K. Mampearachchi,T. F. Fwa,2022-01-30 This volume gathers the latest advances innovations and applications in the field of pavement technology presented at the 12th International Conference in Road and Airfield Pavement Technology ICPT hosted by the University of Moratuwa Sri Lanka and held on July 14 16 2021 It covers topics such as pavement design evaluation and construction pavement materials characterization sustainability in pavement engineering pavement maintenance and rehabilitation techniques pavement management systems and financing transportation safety law and enforcement related to pavement engineering pavement drainage and erosion control GIS applications quarry material assessment pavement instrumentation IT and AI applications in pavement Featuring peer reviewed contributions by leading international researchers and engineers the book is a timely and highly relevant resource for materials scientists and engineers interested in pavement engineering

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