

**PLANNING
SUSTAINABLE CITIES
IN MALAYSIA**

Issues and Challenges



MARIANA MOHAMED OSMAN
ALIAS ABDULLAH
MOHAMMAD ABDUL MOHIT
AZILA AHMAD SARKAWI



IIUM PRESS
INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA

PLANNING SUSTAINABLE
CITIES IN MALAYSIA
Issues and Challenges

MARIANA MOHAMED OSMAN
ALIAS ABDULLAH
MOHAMMAD ABDUL MOHIT
AZILA AHMAD SARKAWI



IIUM PRESS
INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA

Published by:
IIUM Press
International Islamic University Malaysia

First Edition, 2011
© IIUM Press, IIUM

Individual contributors copyright © Prof. Dato' Dr. Mansor Ibrahim, Prof. Dato' Dr. Alias Abdullah, Prof. Dr. Mohammad Abdul Mohit, Assoc. Prof. Dr. Abdul Azeez Kadar Hamsa, Asst. Prof. Dr. Rustam Khairi Zahari, Asst. Prof. Dr. Mariana Mohamed Osman, Br. Samsuddin Jaafar, Asst. Prof. Dr. Lukman Hakim Mahamod, Asst. Prof. Dr. M. Zainora Asmawi, Asst. Prof. Dr. Azila Ahmad Sarkawi, Asst. Prof. Dr. Syafiee Shuid, Asst. Prof. Dr. Norzailawati Mohd Nor.

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without any prior written permission of the publisher.

Mariana Mohamed Osman
Built Environment Selected Writings
Mariana Mohamed Osman

ISBN : 978-967-418-047-8

Printed by:
IIUM PRINTING SDN.BHD.
No. 1, Jalan Industri Batu Caves 1/3
Taman Perindustrian Batu Caves
Batu Caves Centre Point
68100 Batu Caves
Selangor Darul Ehsan

CONTENTS

	<u>Page No.</u>
Contents	v
List of Tables	vii
List of Figures	viii
Foreword	ix
Preface	xi
Contributors	xiii
CHAPTER 1: THE PROVISION OD <i>MUSALLA</i> FACILITIES IN SELECTED MULTI-LEVEL SHOPPING COMPLEXES OF KUALA LUMPUR, MALAYSIA <i>Mohammad Abdul Mohit and Suraiya Alisa</i>	1
CHAPTER 2: APPLICATION OF GIS SITE SUITABILITY ANALYSIS TO IDENTIFY SITES FOR POLICE STATIONS IN URBAN AREAS: A CASE STUDY OF WANGSA MAJU, KUALA LUMPUR <i>Samsuddin Jaafar and Zul Aiman Md. Salleh</i>	12
CHAPTER 3: A STUDY ON THE EFFECTIVENESS OF NEW STATIC INFORMATION SIGNAGE IN INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA, GOMBAK CAMPUS <i>Syahriah Bachok and Syazwani Sahrir</i>	20
CHAPTER 4: FACTORS INFLUENCING THE DECISION TO WALK IN CAMPUS: A CASE STUDY OF UNIVERSITY OF MALAYA, PETALING JAYA <i>Mariana Mohamed Osman and Nuraihan Mohd Ibrahim</i>	33
CHAPTER 5: ASSESSING TRAFFIC MANAGEMENT MEASURES IN THE CITY ROADS OF KUALA LUMPUR <i>Abdul Azeez Kadar Hamsa</i>	44
CHAPTER 6: AN OVERVIEW OF GIS BASED ANALYSIS IN SCHOOL SITING IN MALAYSIA <i>Alias Abdullah, M Zainora Asmawi and Md Farabi Yussof Md Yussof</i>	51

CHAPTER 7:	STATE INTERVATION IN LOW COST HOUSING ALLOCATION IN MALAYSIA UNDER THE COMPUTERISED OPEN REGISTRATION SYSTEM (ORS)	59
	<i>Syafiee Shuid</i>	
CHAPTER 8:	THE EFFECTS OF AIRBONE PARTICULATE FROM COAL POWER PLANT TOWARDS THE RESIDENCE AT MANJONG, PERAK	75
	<i>Shamzani Affendy Mohd Din and Muhammad Ihsan Shaharil</i>	
CHAPTER 9:	RIGHTS AND OBLIGATIONS OF NEIGHBOURING LANDOWNERS IN DEVELOPMENT PLANNING	83
	<i>Azila Ahmad Sarkawi</i>	
CHAPTER 10:	PLANNING AND FOOD SECURITY	90
	<i>Rustam Khairi Zahari, Raja Noriza Raja Ariffin, Mohammed Amer Younus and Nurul Hidayah Yahya</i>	

CHAPTER 4

FACTORS INFLUENCING THE DECISION TO WALK IN CAMPUS: A CASE STUDY OF UNIVERSITY OF MALAYA, PETALING JAYA

Mariana Mohamed Osman and Nuraihan Mohd Ibrahim

ABSTRACT

This paper deals with the factors influencing the decision of students to walk in a higher learning institution in order to promote walking culture among students. The concept of walkable campus has been introduced in this paper which is aimed to provide a more conducive campus environment for the campus community and encourage students to walk in the campus. In order to know the willingness of the students to walk in the campus all the influencing factors have been gathered from the literature review. The study was conducted on students of University Malaya with regard of various factors such as age, gender and vehicle ownership which may influences their decision to walk in the campus. Sixty questionnaire form were distributed among the students belonging to various faculties of the University. The aim of this questionnaire survey is to identify the willingness of the student to walk in campus. The study assessed the students' perception toward the problems and issues of existing pedestrian facilities. Furthermore, the surveys also included opinion of the students on how to promote walking culture in the campus. It is hoped that walking could become one of the major modes of transport that will be used in all higher learning institution of Malaysia.

INTRODUCTION

Automobiles have become the most important transport mode followed by a very high growth of the vehicle fleet that has taken place in recent years. As highlighted by Gozun and Guille (2007), heavy traffic has become a "normal" occurrence for people and this has definitely led to higher opportunity costs related to the movement of people, goods and services. Thus, transport planners have noted that cities in all parts of the world are struggling to achieve some acceptable standard of mobility which is an essential part of all social and economic activities.

People nowadays are trying very hard to plan and design their environment as to reduce private vehicle movement by any possible ways. For that reason, non-motorized transport was introduced to achieve this goal. This mode of transport can be seen as the common approach of linking together places of activities instead of using the motorized transportation. Other than that, non-motorized transportation also includes variants such as small-wheeled transport (skates, skateboards, push scooters and hand carts) and wheelchair travel (Vasconcellos, 2001).

Walking is one of the universal movements in transportation system as it is a basic human activity which every person uses it almost everyday. This statement is supported by Brog and