

UNIVERSITI TEKNOLOGI MARA

**AN EVALUATION OF THE
EFFECTIVENESS OF 'STREET TURN'
AS A GREEN LOGISTICS TOOL FOR
THE MANAGEMENT OF EMPTY
CONTAINERS FOR ROAD HAULAGE
IN MALAYSIA**

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Thesis submitted in fulfillment
of the requirements for the degree of
Master of Science

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AUTHOR'S DECLARATION

I declare that the work in this thesis/dissertation was carried out in accordance with the regulations of Universiti Teknologi MARA (UiTM). It is original and is the result of my own work, unless otherwise indicated or acknowledged as referenced work. This thesis is not submitted to any other academic institution or non-academic institution for any degree or qualification.

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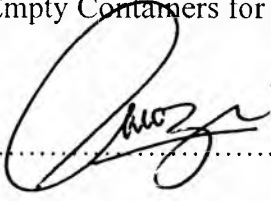
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ABSTRACT

The problem of empty containers is not unique to Malaysia but also a major problem that is faced by other countries around the world. An effective strategy of managing empty containers not only enable financial savings, but it also has the added advantage of contributing to the well being of the environment. Therefore, several strategies have been identified and implemented to reduce or minimize the environmental impact of moving around empty containers. The practice of industry in Europe in managing the container movement is based largely on two strategies called 'Depot Direct' and 'Street Turn'. These strategies are looked upon as suitable tools for managing container's entire – journey when there is a haulage by prime movers. However in Malaysia, logistics practitioners have still largely not implemented a similar strategy in the latter that forms the foundation of green logistics thus helping to reduce carbon emissions in Malaysia. Normally, road haulage companies in Malaysia use the 'Depot Direct' strategy and from the general observation this strategy is not an environmental friendly process as it entails unnecessary carbon emissions. This author seeks to determine whether there is a cost saving and environmental benefits if there is implementation of a new strategy like 'Street Turn' in Malaysia for container haulage operations. The effectiveness of 'Street Turn' strategy will be measured systematically looking at the cost of operation gathering after implementation and simple estimation of percentage carbon emission reduction

TABLE OF CONTENTS

	Page
AUTHOR'S DECLARATION	ii
ABSTRACT	iii
ACKNOWLEDGEMENTS	iv
TABLE OF CONTENTS	v
LIST OF TABLES	x
LIST OF FIGURES	xii
LIST OF GLOSSARY	xiii
LIST OF ABBREVIATIONS	xv
CHAPTER ONE : INTRODUCTION	
1.1 Introduction	1
1.2 Background of the Study	1
1.2.1 Differentiation of Depot Direct and Street Turn Strategy	4
1.3 Problem Statement	6
1.3.1 Long Delay at Container Depot	7
1.3.2 Wasteful Empty Container Movement	7
1.3.3 Costly in Changing Logistics Network Structure	8
1.4 Research Questions	9
1.5 Objective of the Study	10
1.6 Scope of the Study	10
1.7 Significance of the Study	11
1.8 Outline of Thesis	11
1.9 Summary	16
CHAPTER TWO : LITERATURE REVIEW	
2.1 Introduction	17

2.2	Definition of Important Terms in Current Literature	17
2.2.1	Global Warming	17
2.2.2	Green Logistics	19
2.2.3	Empty Running	20
2.2.4	Carbon Monoxide (CO)	21
2.2.5	Carbon Dioxide (CO ₂)	23
2.3	Depot Direct Strategy	23
2.4	Street Turn Strategy	24
2.5	Cost	27
2.5.1	Vehicle Impact	29
2.5.2	Fuel Utilisation	29
2.5.3	Waiting Time	31
2.5.4	Toll and Road Traffic Selection	32
2.6	Carbon Emission	33
2.6.1	Vehicle Utilisation	34
2.6.2	Vehicle Maintenance	35
2.6.3	Road Traffic Selection and Survey	36
2.7	Estimation of Percentage Carbon Reduction	37
2.8	Estimation of Cost	38
2.9	Theoretical Framework	40
2.10	Summary	42
CHAPTER THREE : METHODOLOGY		
3.1	Introduction	43
3.2	Research Design	43
3.2.1	Exploratory Research	43
3.3	Research Approach	44
3.3.1	Quantitative	44
3.4	Sampling Technique	45
3.4.1	Population	46
3.4.2	Sample	47