EVALUATING THE OUTCOMES OF DEVELOPMENT PLAN WITH SPECIAL REFERENCE TO MORATUWA DEVELOPMENT PLAN

Thotamuna Kankanamge Gayani Prasadika Ranasinghe

(108509H)



Master of Science in Project Management

Department of Builling Economics

University of Moratuwa Sri Lanka

February 2013

EVALUATING THE OUTCOMES OF DEVELOPMENT PLAN WITH SPECIAL REFERENCE TO MORATUWA DEVELOPMENT PLAN

Thotamuna Kankanamge Gayani Prasadika Ranasinghe

(108509H)



Dissertation submitted in partial fulfillment of the requirement for the Master of Science in Project Management

Department of Builling Economics

University of Moratuwa Sri Lanka

February 2013

DECLARATION

I declare that this is my own work and this dissertation does not incorporate without acknowledgement any material previously submitted for a Degree or Diploma in any other University or institute of higher learning and to the best of my knowledge and belief it does not contain any material previously published or written by another person except where the acknowledgement is made in the text.

Also, I hereby grant to University of Moratuwa the non-exclusive right to reproduce and distribute my dissertation, in whole or in part in print, electronic or other medium. I retain the right to use this content in whole or part in future works (such as articles or books)

Ranasinghe, T.K.G	P. University of Moratuwa, Sri Lank Electronic Theses & Dissertations www.lib.mrt.ac.lk	
The above candidat	e has carried out research for the Masters d	issertation under my
supervision.		
Prof.(Archt). Lalith	de Silva	Date
Dissertation Superv	visor	

ABSTRACT

Plan outcome evaluation (POE) is very significant rather than focusing on planning process, usefulness of plan, content and quality of plan .POE has been ignored in the field of planning due to lack of proper POE method. Therefore planners cannot identify whether or why plans achieve their objectives, or learn from the results of past interventions to improve planning practice. This study focuses on the ex post facto evaluation considering the outcomes of action projects of development plan and aim to develop a POE method to evaluate outcomes of development plan towards the achievement of its objectives quantitatively since no one has made such an attempt. A comprehensive literature survey revealed that adaptation of the components of objective driven, theory-driven and theory-based, utilization-driven and theoretical data-driven evaluation methods will lead to overcome related issues on plan outcome evaluation. Basic four steps suitable to incorporate in any POE method were identified by referring POE methodologies developed by Mayne (2001) and Laurian et al. (2004, 2010).

This developed POE method includes four steps comprising objective achievement matrix and relevant mathematical models. Field surveys and questionnaire surveys were carried out to identify public perception on achievement of outcomes of action projects. Developed POE method can be used as a progress monitoring tool and also as an outcome evaluation tool since it is sensitive to evaluate the outcomes of ongoing projects as well. Results of the evaluation of outcome of six action projects under Moratuwa development plan indicated that, outcomes of all three implemented action projects have been contributed to achieve relevant criteria of objectives in moderate level by indicating CAV, values between 41% to 65%. Other parity implemented three action projects have been contributed to achieve related criteria of objectives in low level by indicating CAV, values in between 18% to 40%. This POE method will be a useful tool to planners, project managers, and policy makers to improve planning practices and to provide the necessary knowledge to revise plans, improve performance of the projects. This study can be extended to evaluate the outcomes of development plan when objectives are clear and measurable further considering theory, process and objectives driven methods in depth.

Keywords: *POE method, public perception, outcomes of development plan*

DEDICATION



I dedicate this dissertation to my Loving parents and teachers...

ACKNOWLEDGMENTS

This research study would not have been a success without the assistance,

encouragement and dedication of numerous individuals and organizations who

contributed in numerous ways. Therefore I take this opportunity to convey my

gratitude to all of them.

First and foremost, I would be grateful to my principle supervisor, Senior lecturer,

Prof. Lalith de Silva for his excellent supervision. His commitment and dedication

towards this study contributed to the successful completion of this research.

I would like to express my sincere thanks to the Head of the Department, Mr. Indunil

Seneviratne, Dissertation Coordinator Dr. Y.G. Sandanayake, Mr Suranga Jayasena

other lecturers and all other academic and non academic staff members of the

Department of Building Economics for their enormous guidance and assistance to

make this study a successiversity of Moratuwa, Sri Lanka.

Electronic Theses & Dissertations

www.lib.mrt.ac.lk

Then my sincere gratitude goes Prof. Emeritus K.R.M.T. Karunarathne for his

excellent advices pertaining to the analysis stage of this study.

I would also like to thank all the planning officers of Moratuwa Municipal Council,

project officers of each action project and community of Moratuwa MC Area, who

contributed with kind response to questionnaires issued, in spite of their busy

working schedules.

Finally, I express my heartfelt thanks for my colleagues and many others who

contributed in numerous ways to make this dissertation a success.

Ranasinghe, T.K.G.P.

30th January 2013

iν

TABLE OF CONTENTS

Dec	claration	I
Abs	stract	II
Dec	dication	III
Ack	knowledgments	IV
Tab	ole of contents	V
List	t of figures	VIII
List	t of tables	IX
List	t of abbreviations	X
СН	APTER 1	1
	INTRODUCTION	1
1.1	Background	1
1.2	Problem Statement	3
1.3	Aim and Objectives	3
1.4	Methodology University of Moratuwa, Sri Lanka.	4
1.5	Scope and Limitation Theses & Dissertations	5
1.6	Structure of the Report	5
СН	APTER 2	7
	LITERATURE REVIEW	7
2.1	Introduction	7
2.2	Levels of Planning	7
2.3	Local Development Plan	10
2.4	The Importance of Planning Evaluation	10
2.5	Progress towards the Plan Outcome Evaluation	13
2.6	Types of Outcome Evaluation	14
	2.6.1 Goal or objective driven evaluation	15
	2.6.2 Theory-driven and theory-based evaluation	15
	2.6.3 Utilization-driven evaluation	16
	2.6.4 Theoretical data-driven evaluation	17

2.7	Barriers for Evaluating Plan Outcomes	17
2.8	Different POE Methodologies	19
	2.8.1 A POE methodology by Mayne (2001)	19
	2.8.2 A POE methodology by Laurian et al,(2004,2010)	22
	2.8.3 The problems associated with these POE methodologies	23
2.9	Proposals to overcome the Issues on POE methods	25
	2.9.1 Identify the relationship between objectives and outcomes	25
	2.9.2 Involving proper stakeholder in the process of POE methodology	26
2.10	Findings of Literature Review	30
2.11	1 Summary	37
СН	APTER 3	38
	RESEARCH METHODOLOGY	38
3.1	Introduction	38
3.2	Research Design	38
	Phase One	
3.4	Phase Two. University of Moratuwa, Sri Lanka.	41
3.5	Phase Three Www lib mrt ac lk	42
	Phase Www.lib.mrt.ac.lk 3.5.1 Public perception.	43
	3.5.2 Study on selected development plan	
	3.5.3 Objective achievement matrix	44
	3.5.4 Field survey and questionnaire survey	44
	3.5.4.1 Justification for survey approach	44
	3.5.4.2 Sample selection	45
	3.5.5 Developing a POE Method	46
3.6	Summary	50
СН	APTER 4	51
	APPLICATION OF POE METHOD	
4.1	Introduction	51
4.2	Step One - Identify the logical sequence and coherence of plan elements	
	Step Two–Identify the associations between objectives and outcomes	

4.4	Step Three- Measure the outcomes of action projects	55
4.5	Step Four- Calculate Overall assessment Value	55
4.6	Summary	63
СН	APTER 5	64
	CONCLUSIONS	64
5.1	Key Research Findings	64
	5.1.1 Literature Findings	64
	5.1.2 Application of Planning, Quantitative and Statistical Techniques	66
5.2	Developed POE method	66
5.2	Application of POE method to Moratuwa Development Plan	67
5.3	Limitations	68
5.4	Contribution to Industry	69
5.5	Further Research	70
RE]	FERENCES	71
AP	PENDIX University of Moratuwa, Sri Lanka. Electronic Theses & Dissertations PENDIX University of Moratuwa, Sri Lanka. Electronic Theses & Dissertations WWW.lib.mrt.ac.lk	79
API	PENDIX 1- Questionnaire	80
API	PENDIX 2: The method of calculations of ($\sum AiC1$) values and CAVj	
	values for evaluating outcomes of action project.	86

LIST OF FIGURES

Figure 2.1:	Conceptual framework for local planning and implementation	. 9
Figure 2.1:	Local Planning Process.	21
Figure 2.3:	The results chain of Development plan	26
Figure 3.1:	Research Design	40



LIST OF TABLES

Table 2.1:	Findings of Literature Review	30
Table 3.1:	Achievement Level of Objective Criteria	50
Table 4.1:	Objective Achievement Matrix	53
Table 4.2:	Criteria of objectives relevant to each action project	54
Table 4.3:	Calculating (∑AiC1) and CAVj values for Town Center	
	Development Project	56
Table 4.4:	Calculating (∑AiC1) and CAVj values for Katubadda Sub	
	Town Development Project	57
Table 4.5:	Calculating (∑AiC1) and CAVj values for Lunawa Lagoon	
	Development Project	58
Table 4.6:	Calculating (∑AiC1) and CAVj values for Housing	
	Development Project	59
Table 4.7:	Calculating ($\sum AiC1$) and CAVj values for Coastal Road	
	Developmenti Projecty of Moratuwa, Sri Lanka.	60
Table 4.8:	Calculating (XATOI) and CAV j values for Parks Development	
	Project www.lib.mrt.ac.lk	61
Table 4.9:	Calculating (∑AiC1) and CAVj values for Parks Development	
	Project	62

LIST OF ABBREVIATIONS

 $A_i C_j \qquad \text{-} \qquad \text{Activity vs. Criteria value}$

CAV_i - Criteria Achievement Value

COC - Certificate of Conformity

LA - Local Authority

MC - Municipal Council

POE - Plan Outcome Evaluation

UDA - Urban Development Authority

