

# THE USE OF ELECTRONIC GOVERNMENT IN PROMOTING ICT: A CASE STUDY IN PUBLIC SERVICE DEPARTMENT

### MARHAINI MOHD. NOOR

### FACULTY OF ECONOMICS AND ADMINISTRATION UNIVERSITY OF MALAYA KUALA LUMPUR

APRIL 2004



# THE USE OF ELECTRONIC GOVERNMENT IN PROMOTING ICT: A CASE STUDY IN PUBLIC SERVICE DEPARTMENT

## BY MARHAINI MOHD. NOOR (EGCO2OO11)

SUBMITTED TO THE FACULTY OF ECONOMICS AND ADMINISTRATION, UNIVERSITY OF MALAYA IN PARTIAL FULFILMENT OF THE REQUIREMENT FOR THE DEGREE OF MASTER OF PUBLIC ADMINISTRATION

APRIL 2004

#### ABSTRACT

## THE USE OF ELECTRONIC GOVERNMENT IN PROMOTING ICT: A CASE STUDY IN PUBLIC SERVICE DEPARTMENT

Electronic Government is a flagship application for government, businesses and citizens to work together for the benefit of the country and all its citizens. Through the use of ICT and multimedia, government agencies become more efficient and effective in their delivery of public services and consequently more responsive to the needs of the citizens. The use of e-Government is still at the early stage and most of the public sectors are finding it difficult to keep up with fast moving technologies. Therefore, this paper tends to investigate how e-Government is used in Public Service Department (PSD) as a way to promote ICT in the organization. This research measures the view of employees in three divisions of PSD. The sample consisted of 93 returned questionnaires. Primary data were gathered through an interview and questionnaires. The data is analyzed using SPSS programme version 11.0. The analysis was being made using mean, percentage and Oneway ANOVA. Firstly, the factors that influence the use of e-Government in PSD are appropriate time, efficiency and productivity, government's order, individual and organizational characteristics and the barriers in adopting e-Government in PSD are external factors, organizational and individual characteristics. Secondly, the effectiveness after the implementation of e-Government in PSD is individual, organization, efficiency and productivity factors. Thirdly, the problems after the implementation of e-Government in PSD are organization, individual and external factors. Overall, the respondents accept the e-Government system.

### **ACKNOWLEDGEMENTS**

Praise Allah Syukur Alhamdullilah by allowing me to complete this project paper. I would like to take this opportunity to thank Dr. Halimah Bt. Awang (Supervisor for this project) for her patience in guiding me to complete this project. My thanks to En. Nawi (Lecturer), Dr. Nik Rosnah (My Second Examiner), all FEP lecturers and staffs for guiding and supporting me during my years studying at Universiti Malaya. Besides, I would like to give my heartfelt thanks to Public Service Department (PSD), Putrajaya; especially to Tuan Hj. Abdul Hamid (IT Division), Kak Timah (P.A, Director; IT Division), En. Khalid Abdul Samad (Human Resource & Management Service Division) and all others who responded to the survey questionnaires; for providing me the useful information which enable me to do this project. Last but not least, to my beloved husband; Azrul Nizar A. Manaf, my adorable son; Azmin Hariz, my parents; Pa, Mi, your blessing prayer has been answered., K.Noni, K.Na, Gee, Amir, I hope this will guide and inspire you for your future undertakings, and to all my friends, Sakinah, K.Siti, Shikin, Su, Mas, NorZ, Yus, thanks to all, for supporting me. Otherwise, I would not be able to complete the project successfully.

## TABLE OF CONTENTS

		Pages
ABSTRACT		I
ACKNOWLEDGEMENTS		
TABLE OF CONTE	ENTS	III
LIST OF FIGURES		V
LIST OF TABLES		VI
CHAPTER 1:	INTRODUCTION	
1.0	Introduction	1
1.1	Problem Statement	2
1.2	Research Objectives	4
1.3	Research Importance	5
1.4	Research Methodology	5
	1.4.1 Data Collection	6
	1.4.2 The Sample	7
	1.4.3 Research Design	7
1.5	Research Limitation	8
1.6	Organization of the Research	8
CHAPTER 2:	LITERATURE REVIEW	
2.0	Introduction	10
2.1	Definition and Concept of ICT in Public Sector	11
2.2	ICT Adoption	13
2.3	Concept of Electronic Government (e-Government)	14
2.4	Vision of Electronic Government (e-Government)	15
2.5	Concept of Electronic Government-Accountant General	
	(EG-AG)	15
	- Concept of e-SPKB	16
2.6	Perspectives and Possibilities of E-Government	16
2.7	ICT and E-Government	19
	- The Direction of EG towards Government Excellence	23
2.8	E-Government and Public Sector Reform	25
2.9	E-Government and Knowledge-Based Economy	27
	- Knowledge Workers (K-workers)	34
2.10	E-Government and Human Resource Management	36

	2.11	E-Government and Management E-Government Stages of Development	38 40
	2.13	General System Theory	42
CHAPTER:	3:	ORGANIZATIONAL BACKGROUND	
	3.0 3.1	Introduction Public Service Department (DSD)	44
	3.1	Public Service Department (PSD) -History	4.4
		-Shifting to the New Paradigm	44 45
		-Vision	47
		-Objectives	47
		-Functions	48
		-Programs	48
		-Human Resource Division	50
		-Information Technology Division	50
		-Human Resource Management Information System	51
	3.2	Definition and Concept of MAMPU	53
	3.3	Electronic Government Flagship	54
CHAPTER	4:	RESEARCH RESULTS	
	4.0	Introduction	59
	4.1	Profile of Respondents	59
	4.2	Perception of Employees on the Factors that influenced	
		E-Government usage	61
	4.3	Perception towards Barriers in adopting E-Government	64
	4.4	Perception towards Problems that arise after the	
		implementation of E-Government	66
	4.5	Perception of Employees on the Effectiveness of	
		E-Government	67
CHAPTER	5:	CONCLUSION AND RECOMMENDATION	
	5.0	Introduction	71
	5.1	Discussion	72
	5.2	Recommendation	76
	- 1 din		
REFERENC	ES		79
APPENDIX			82

## LIST OF FIGURES

FIGURE	TITLE	PAGE
1	Model of System Theory	43
2	Strategies for e-Government Journey	55
3	Categories of e-Government Pilots	56

## LIST OF TABLES

TABLE	TITLE	PAGE
1	Migration to a K-economy	29
2	Respondent Distribution by Gender	60
3	Respondent Distribution by the System Used	60
4	Respondent Distribution by Level of Formal Education	61
5	Respondent Reaction towards Factors	62
6	Factors that influence the use of e-Government	63
7	Ranking of top 5 individual statements from the group	63
8	Respondent Reaction towards Barriers	64
9	Barriers in adopting e-Government	65
10	Ranking of top 5 individual statements from the group	65
11	Relationship between e-Government systems with	
	External, Organization and Individual Factors (Problems)	) 67
12	Respondent Agreement Level towards Individual	
	Characteristics	68
13	Respondent Agreement Level towards Organization	
	Characteristics	69
14	Respondent Agreement Level towards Efficiency and	
	Productivity	<b>7</b> 0