Survey Of the Use of Information Communication Technology Tools in CIMB Bank for Decision making

Submitted by Mohamed Youniss Youssif Alfakhri



KOLEJ SASTERA DAN SAINS (College of Arts and Sciences) Universiti Utara Malaysia

PERAKUAN KERJA KERTAS PROJEK (Certificate of Project Paper)

Saya, yang bertandatangan, memperakukan bahawa (I, the undersigned, certify that)

MOHAMED YOUNISS YOUSSIF (803308)

calon untuk Ijazah (candidate for the degree of) MSc. (Information Communication Technology)

telah mengemukakan kertas projek yang bertajuk (has presented his/her project paper of the following title)

PROJECT/SURVEY OF USE OF INFORMATION COMMUNICATION TECHNOLOGY TOOL IN CIMB BANK FOR DECISION MAKING

seperti yang tercatat di muka surat tajuk dan kulit kertas projek (as it appears on the title page and front cover of project paper)

bahawa kertas projek tersebut boleh diterima dari segi bentuk serta kandungan dan meliputi bidang ilmu dengan memuaskan.

(that the project paper acceptable in form and content, and that a satisfactory knowledge of the field is covered by the project paper).

Nama Penyelia Utama (Name of Main Supervisor):	MDM. KHAIRUL BARIAH AHMAD
(manie of main baperoisor).	MDM: IIIIIIICO DIREMINI IIIIIIIII
Tandatangan (Signature) :	- HMM
Tarikh (Date) :	10 MAY 2010

PERMISSION TO USE

In presenting this thesis in partial fulfillment of the requirements for a postgraduate degree from University Utara Malaysia, I agree that the University Library it may be freely available for inspection. I further agree that permission for copying of this thesis in any manner, in whole or in part, for scholarly purpose may be granted by my supervisor(s) or, in their absence by the Dean of the Graduate School.

It is understood that any copying of the publication or use of this thesis and parts therefore, the financial gain shall not be allowed without my written permission. It is also understood that due recognition shall be given to me and to University Utara Malaysia for any scholarly use which may be made of any material from my thesis. Requests for permission to copy or to make other use of materials in this thesis, in whole or specific part, should be addressed to.

Dean of Postgraduate

College of Arts and Sciences (UUM-CAS)

Universiti Utara Malaysia

06010 UUM Sintok

Kedah Darul Aman.

i

ACKNOWLEDGEMENT

Firstly my gratefulness goes to Almighty Allah that I have successfully completed the project. Secondly my special thanks go to Khairul Bariah Binti Ahmad because of his kind assistance and wise decision in supervising me in this project. Also my special thanks go to Dr Kang for being my evaluator and supporting me always regarding my project.

TABLE OF CONTENTS

CHAPTER 1 INTRODUCTION	1
1.1. INTRODUCTION AND BACKGROUND OF THE STUDY	1
1.2. PROBLEM STATEMENT	5
1.3. RESEARCH OBJECTIVE	6
1.4. RESEARCH QUESTIONS	6
1.5. RESEARCH SCOPE	7
1.6. SIGNIFICANCE OF THE STUDY	7
CHAPTER 2 LITERATURE REVIEW	8
2.1. INFORMATION AND COMMUNICATION TECHNOLOGY	8
2.1.1. TYPES OF COMPUTER	9
2.2. DECISION MAKING	17
2.3. ICT IN DECISION MAKING	20
2.4. DECISION SUPPORT SYSTEM (DSS)	22
2.5. GROUP DECISION SUPPORT SYSTEMS (GDSS)	27
2.6. FACTORS INFLUENCING ICT USE IN DECISION MAKING	30
2.6.1. ORGANIZATIONAL FACTORS	31
2.7. SUMMARY	35
2.8. HYPOTHESIS	35
2.9 THEORETICAL FRAMEWORK:	37
CHAPTER 3 RESEARCH METHODOLOGY	38
3.1. INTRODUCTION	38
3.2. RESEARCH DESIGN	39
3.3. SAMPLING TECHNIQUES	41
2.6 DATA ANALYSIS	42

3.7. HYPOTHESIS	43
3.8. GANTT CHART	43
CHAPTER 4 ANALYSIS AND RESULT	44
4.1. INTRODUCTION	44
4.2. RESPONDENT'S DEMOGRAPHIC PROFILE	45
4.2.1. THE GENDER OF RESPONDENTS	46
4.3. VALIDITY OF STUDY INSTRUMENT TESTING	48
4.4. FACTOR ANALYSIS:	49
4.5. DESCRIPTIVE STATISTICS	51
4.6. CORRELATIONS AMONG VARIABLES	51
4.6.1. REGRESSION ANALYSIS	53 54
4.7. CONCLUSION	57
CHAPTER 5 CONCLUSION	58
5.1. INTRODUCTION	58
5.2. RESEARCH SUMMARY	59
5.3. RESEARCH IMPLICATION	61
5.3.1. IMPLICATION	
5.4. DISCUSSION	63
5.5. CONCLUSION	65
DECEDENCES	66

LIST OF TABLES

TABLE 4.1: QUESTIONNAIRE CRITERIA	45
TABLE 4.2: THE GENDER OF RESPONDENTS	46
TABLE 4.3: THE AGE OF RESPONDENTS	47
TABLE 4.4: STATUS	47
TABLE 4.5: SUMMARY OF RELIABILITY ANALYSIS	48
TABLE 4.6 FACTOR ANALYSIS	49
TABLE 4.7: SUMMARY OF DESCRIPTIVE STATISTICS	51
TABLE 4.8: CORRELATION AMONG VARIABLES	52
TABLE 4.9: MODEL SUMMARY	53
TABLE 4.10: COEFFICIENTS	54
TABLE 4.11: COEFFICIENTS	55
TABLE 4.12COEFFICIENTS	55
TABLE 4.11: COEFFICIENTS	56

LIST OF FIGURES

FIGURE 2.1: TWINS PYRAMIDS OF ORGANIZATIONAL STRUCTURE AND	
INFORMATION SYSTEM USAGE	16
FIGURE 2.2: INTELLIGENCE, DESIGN, AND CHOICE	17
FIGURE 2.3: INDEPENDENT VARIABLES	37

Abstract

Nowadays, most people use the internet and other forms of information and communication technology to do their business for the purpose of better services. Also people are looking for services that can be not only affordable but also accessible anywhere anytime. Many business organizations are using ICT in various purposes, mainly being performing their activities effectively. The main objective of the study is to investigate the use of ICT tools in business organizations for decision making. The study aims to perform a survey in order to determine the extent of the use of ICT as well as factors associated with the applications among private business offices operations within CIMB Bank, Kedah.



Chapter 1

INTRODUCTION

1.1. Introduction and Background of the Study

According to Hedelin and Allwood, (2002), the growth of Information communication Technology (ICT) is one of the development sectors that has been witnessed in different industries that provides an easy and cheaper ways in generating and sharing of information as a resource for the decision making within an organization. The industries such as banking and finance by their nature, always need accurate information for the proper operation of their functions, therefore they have the greatest impacts due to advancement in ICT. ICT simplifies the process of decision making for all organizations that has adopted it regardless of public or private sector. In this proposed research we try to find out the relativity of using the information and communication technology (ICT) tool to assist in decision making in the private business organization working within CIMB, Kedah.

Malaysia is one of the politically sound and thus is able to focus on other agendas to ensure economic stability and prosperity. Economy is not complete without any reference to ICT for growth and development for economic in Malaysia. The term ICT was first mentioned by the government in the Eighth Malaysia Plan (2001-2005) replacing the widely use of the term information technology.

The contents of the thesis is for internal user only

REFERENCES

➤ Eighth Malaysia Plan (2001-2005) .A Profile of Malaysian Chief Executive Officers' Use

of Information Technology to Support Decision Making. Paper presented at the 7th Australian Conference on Information Systems, Australian

Aiken, M., Hawley, D., & Zhang, W. (1994). Increasing Meeting Efficiency with a GDSS. Industrial Management Systems, 94(8), 13-16.

Ang, C. L., Davies, M. A., & Finlay, P. N. (2001a). An empirical model of IT usage in the

Malaysian public sector. Journal of Strategic Information Systems(10), 159-174.

Bruggen, G. H. V., Smidts, A., & Werenga, B. (2001). The powerful triangle of marketing

data, managerial judgement, and marketing management support systems. European Journal of Marketing, 35(7/8), 796-816.

Bryman, A. (1996). Quantity and Quality in Social Research, Contemporary Social Research: 18. Routledge, 31-47.

Donnelly, M., Dalrymple, J. F., & Hollingsworth, I. P. (1994). The use and development of information systems and technology in Scottish Local Government.

International Journal of Public Sector Managemetn, 7(3), 4-15.

- Emory, C. W., & Cooper, D. R. (1991). Business Research Method (4th ed.): IRWIN,332-339.
- Feraud, G. J. S. (1998). Research paper: improving strategic decision making in logistics information management a framework. Logistics Information Management, 11(4), 232-243.
- Hedelin, L., & Allwood, C. M. (2002). IT and strategic decision making. Industrial Management & Data Systems, 102(3), 125-139.
- Laver, M. (1989). Information Technology: agent of change (1st ed.): Caombridge University Press, 30-31.
- Liang, T. P., & Hung, S. Y. (1997). DSS and EIS applications in Taiwan. Information Technology & People, 10(4), 303-315.
- Mallach, E. G. (2000). Decision Support and Data Warehouse Systems: McGraw-Hill International Editions.
- Nord, J. H., & Nord, G. D. (1995). Why managers use executive support systems:

selecting and using information technology for strategic advantage. Industrial Management & Data Systems, 95(9), 24-28.

- Pereira, R. E. (1999). Factors influencing consumer perceptions of web-based decision support systems. Logistics Information Management, 12(1/2), 157-181.
- Pinkerton, J. (1990). Understanding Information Technology, Basic Terminology and Practice (1st ed.): Ellis Horwood.
- Sekaran, U. (1992). Instructor's Resource Guide with Test Questions and Transparency

 Masters (2nd ed.): John Wiley and Sons.
- Sekeran, U. (2000). Research Methods for Business: A Skill Building Approach (3rd ed.): John Wiley and Sons.
- Wang, Z. M. (1994). Organizational Decision Making and Competence Utilization among Chinese Managers. Journal of Managerial Psyhology, 9(7), 17-24.
- Crowston, 2001, the infraction of the organization behavior, retrieved on 3 Oct 2008.
- Tricker, R.I. (1992). The Management of Organizational Knowledge, in Information Systems Research: Issues, Methods and Practical Guidefines, Galliers, R.D. (ed.), Oxford: Blackwell Scientific.

Utusan Malaysia, (2002)."In Search of a Paradigm for the Discipline of Information Systems," Future Computer Systems, Vol. 1, No. 1, pp. 71-97.

Buttery .Varieties of Quafitative Research, Beverly Hills, CA: Sage Publications.

Marco, Sorrentina & Carignani, (1999). The Fund Theory of Accounting and Its Implications for Financial Reports, The University of Chicago Press.

Johannessen, Olaisen & Olsen, (1999)."MIS Research: A Profile of Leading Journals and Universities," *DATA BASE for Advances in Information Systems*, Vol. 16, No. 1, pp. 3-14.

Nath (2000). Strategic Planning for Information Systems, John Wiley & Sons.

Harrison, (1996). "Business School Deans Assess the Current State of the IS Academic Field," CAIS, Vol. 4, Article 4, Sept.

Udo, (2000). "Towards a Theory of Artifacts: A Paradigmatic Base for Information Systems Research," *Journal of Information Systems*, pp. 3-19.

Mescon, B., and Thill, (2002). "CASE Tools as Organizational Change: Investigating Incremental and Radical Change in Systems Development," *MIS Quarterly*, Vol. 17, No. 3.

Quibria, (2002). Management Information Systems: Strategy and Action, McGaw-Hill Intl.

Cardinali, (1998). "Barriers to the Advance of Organizational Science: Paradigm Development as an Independent Variable," *Academy of Management Review*, Vol. 18, No. 4, pp. 599-620.

Morrison, (2001). Management Education and Development: Drift or Thrust into the 21st Century?, McGraw-Hill.

Bruggen, D., and Williams, D. (2001). "The Nature of Research: Qualitative or Quantitative, Narrative or Paradigmatic?" *Information Systems Journal*, Vol. 6, pp. 131-146.

Othman, U., Redman, T.C. (1996). *Data Quality for the Information Age,* Boston, MA: Artech House.

Keen, I (1995). The Knowledge-Creating Company, Oxford: Oxford University Press.

Nielsen (2000). "CASE Tools as Organizational Change: Investigating Incremental and Radical Change in Systems Development," *MIS Quarterly*, Vol. 17, No. 3.

Ramsay and Nielsen, (2000). "The Best Graduate Schools," *U.S. News & World Report*, April 29, pp. 62-69.