# IMPACT OF E-BANKING ON THE FINANCIAL PERFORMANCE OF LISTED COMMERCIAL BANKS IN SRI LANKA

B R N 1 FEB 2022

By

# MARASINGHALA GEDARA HASHINI NUWANTHIKA MARASINGHE

#### EU/IS/2015/COM/24

### **COM 1904**

A Project Report Submitted to the Faculty of Commerce and Management, Eastern University, Sri Lanka as a partial fulfillment of the requirement of the Degree of Bachelor of Commerce Honors in Accounting and Finance [BComHons (Accounting and Finance)]



### DEPARTMENT OF COMMERCE

### FACULTY OF COMMERCE AND MANAGEMENT

EASTERN UNIVERSITY, SRI LANKA

PROCESSED MAIN LIBRARY, EUSL

2020

#### ABSTRACT

This study was attempted to investigate the impact of E-Banking on the Financial Performance of Listed Commercial Banks Sri Lanka. The objectives of this study is consist of the impact of System Efficiency, Security and Privacy, Reliability, Responsiveness and Communication, Volume of E-Banking Devices and Carrying Amount of E-Banking Assets on the Financial Performance of Commercial Banks in Sri Lanka.

In this study literature part explained independent variables, dependent variable and the relationship between those variables clearly defined by using previous literature reviews. Conceptual model is developed based on the existing literature. Few studies have been done in the area of marketing strategies and its contribution to the value of the firm. This study sets out to extend the evidence by investigating the E-Banking strategies of Commercial Banks in Sri Lanka. In this study panel data sets of Sri Lankan Commercial Banks were used to investigate the impact of E-Banking on financial performance of Commercial Banks in Sri Lanka using the Random Effects model. Random Effect model has selected by using the results of Hausman Test. For the purpose of this study, 40 observations over the period 2018 to 2019 were included. Annual reports, survey data collected from the customers of the selected Commercial Banks have been used to obtain the data. Return on Assets (ROA) was considered as proxies for financial performance

Findings of this research indicates that, Sri Lankan Commercial Banks, in general, E-Banking strategies have a significant impact on the Financial Performance of Commercial Banks in Sri Lanka. And also the study presents the descriptive Statistics of selected variables. Further these findings would be both conceptually and practically appealing for insurer to apply knowledge management practice in their institutions. Findings of this study help decision makers be aware of the importance of E-Banking strategies as a key factor that can enhance a firm's ability to maintain their competitive position.

**Key words:** E-Banking, Financial performance, Commercial Banks, System Efficiency, Security and Privacy, Reliability, Responsiveness and Communication, Volume of E-Banking Devices, Carrying Amount of E-Banking Assets.

...

## TABLE OF CONTENTS

ACKNOWLEDGEMENT
ABSTRACTii
TABLE OF CONTENTS iii
LIST OF TABLESix
LIST OF FIGURESx
ABBREVIATIONS
CHAPTER ONE
INTRODUCTION
1.1 BACKGROUND OF THE STUDY
1.2 PROBLEM STATEMENT
1.3 RESEARCH QUESTIONS
1.4 OBJECTIVES OF THE STUDY
1.5 SCOPE OF THE STUDY
1.6 SIGNIFICANCE OF THE STUDY
CHAPTER TWO
LITERATURE REVIEW
2.1 INTRODUCTION
2.2 E- BANKING
2.2.1 Dimensions of E-Banking
2.2.2 Some E-Banking Tools and Software Currently Used by Commercial Banks in
Sri Lanka
2.3 FINANCIAL PERFORMANCE
2.3.1 Components of Financial Performance
2.4 COMMERCIAL BANKS

2.5	THEORIES	REGARDING	TO	E-BANKING	AND	FINANCIAL
PERF	ORMANCE.		•••••	•••••		25
2.5	.1 Perceived F	unctional Quality	of E-E	Banking		25
2.5	.2 Perceived T	echnical Quality of	of E-B	anking	••••••	
2.5	.3 The Linkage	e between Service	Quali	ty and Performan		
2.5	.4 Innovation I	Diffusion Theory	(IDT).		• • • • • • • • • • • • • • • •	
2.5	.5 Technology	Acceptance Mode	el		•••••	27
2.5.	.6 Customer R	etention and Satis	factior	1	•••••	
2.5.	.7 E-Banking I	Profitability and E	fficien	су		
2.5.	.8 Theory of F	inancial Intermedi	ation.			
2.5.	.9 Innovation 7	Theory of Profits .				29
2.6 El	MPIRICAL RI	EVIEW			*	29
2.7 SU	UMMERY		•••••			31
CHAPT	ER THREE		•••••			
CONCE	PTUALIZAT	ION AND OPERA	ATION	JALIZATION		32
3.1 IN	ITRODUCTIC	DN				
3.2 C	ONCEPTUAL	IZATION	••••••			
3.3 V.	ARIABLES R	ELEVANT TO T	HE CO	ONCEPTUAL FR	RAMEW	ORK33
3.3.	1 E-Banking		••••••			
3.3.	2 Financial Pe	rformance	••••••			
3.4 O	PERATIONAL	LIZATION	•••••			
3.3 D	EVELOPMEN	IT OF HYPOTHE	ESES			40
3.5 SU	JMMARY					41
CHAPT	ER FOUR		•••••			42
RESEA	RCH METHO	DOLOGY				42
4.1 IN	TRODUCTIC	)N				
4.2 ST	TUDY SETTI	NG, STUDY DES	IGN, A	AND METHOD	OF STU	DY43

.

	4.3 STUDY POPULATION AND SAMPLE	.43
	4.4 DATA COLLECTION	.45
	4.4.1 Primary Sources	.45
	4.4.2 Secondary Sources	.45
	4.5. METHODS OF MEASUREMENT	.46
	4.5.1 Personal Information	.46
	4.5.2 Research Information	.46
	4.6 METHODS OF DATA PRESENTATION	.47
	4.7 METHOD OF DATA ANALYSIS AND EVALUATION	.47
	4.7.1 Reliability Analysis	.47
	4.7.2 Univariate Analysis	.48
	4.7.3 Trend Analysis	.49
	4.7.4 Unit Root Test	.49
	4.7.5 Multivariate Analysis	.49
	4.7.6 Diagnostic Test	.51
	4.8 PANEL DATA	.52
	4.8.1 Fixed Effect	.53
	4.8.2 Random Affect	.53
	4.8.3 Hausman Test	.53
	4.9 REGRESSION ANALYSIS	.53
	4.10 FORMULATION OF HYPOTHESIS	.54
	4.11 SUMMERY	.55
(	CHAPTER FIVE	.56
Ι	DATA PRESENTATION AND ANALYSIS	56
	5.1 INTRODUCTION	56
	5.2. ANALYSIS OF RELIABILITY OF THE INSTRUMENTS	56
	5.3 DATA PRESENTATION	

5.3.1. Number of Respondents
5.4 DATA ANALYSIS
5.4.1 Univariate Analysis
5.4.2 Stationary of Data
5.4.3 Multivariate Analysis
5.4.4 Diagnostic Test67
5.4.5 Multiple Regression Analysis
5.5 HYPOTHESIS TESTING74
5.6 SUMMARY
CHAPTER SIX
DISCUSSION
6.1 INTRODUCTION
6.2 DISCRIPTIVE STATISTICS
6.2.1 Descriptive Statistics for Independent Variables
6.2.2 Descriptive Statistics for Dependent Variable
6.3 DISCUSSION ON MULTIPLE REGRESSION ANALYSIS
6.3.1 Impact of System Efficiency of E-Banking on the Financial Performance of Commercial Banks
6.3.2 Impact of Security and Privacy of E-Banking on the Financial Performance of Commercial Banks
6.3.3 Impact of Reliability of E-Banking on the Financial Performance of Commercial Banks
6.3.4 Impact of Responsiveness and Communication of E-Banking on the
Financial Performance of Commercial Banks
6.3.5 Impact of Volume of E-banking Devices of E-Banking on the Financial Performance of Commercial Banks
6.3.6 Impact of Carrying Amount of E-Banking Assets on the Financial Performance of Commercial Banks

6.4 SUMMARY
CHAPTER SEVEN
CONCLUSION AND RECCOMENDATION
7.1 INTRODUCTION
7.2 CONCLUSION
7.2.1 Conclusion on the Impact of System Efficiency of E-Banking on the Financial Performance of Commercial Banks in Sri Lanka
7.2.2 Conclusion on the Impact of Security and Privacy of E-Banking on the Financial Performance of Commercial Banks in Sri Lanka
7.2.3 Conclusion on the Impact of Reliability of E-Banking on the Financial Performance of Commercial Banks in Sri Lanka
7.2.4 Conclusion on the Impact of Responsiveness and Communication of E- Banking on the Financial Performance of Commercial Banks in Sri Lanka86
7.2.5 Conclusion on the Impact of Volume of E-Banking Devices of E-Banking on the Financial Performance of Commercial Banks in Sri Lanka
7.2.6 Conclusion on the Impact of Carrying Amount of E-Banking Assets on the Financial Performance of Commercial Banks in Sri Lanka
7.3 RECOMMENDATIONS
7.3.1 Recommendation on the Impact of System Efficiency of E-Banking on the Financial Performance of Commercial Banks in Sri Lanka
7.3.2 Recommendation on the Impact of Security and Privacy of E-Banking on the Financial Performance of Commercial Banks in Sri Lanka
7.3.3 Recommendation on the Impact of Reliability of E-Banking on the Financial Performance of Commercial Banks in Sri Lanka
7.3.4 Recommendation on the Impact of Responsiveness and Communication of E-Banking on the Financial Performance of Commercial Banks in Sri Lanka88
7.3.5 Recommendation on the Impact of Volume of E-Banking Devices of E-Banking on the Financial Performance of Commercial Banks in Sri Lanka

.

vii

7.3.6 Recommendation on the Impact of Carrying Amount of E-Banking A	Assets
on the Financial Performance of Commercial Banks in Sri Lanka	89
7.4 LIMITATIONS OF THE STUDY	89
7.5 FOR FUTURE RESEARCH OPPORTUNITIES	90
7.6 SUMMARY	90
REFERENCES	91
APPENDICES	105