

Ain Shams University Faculty of Commerce Accounting & Auditing Department

The Impact of Adopting BSC on **Earnings Quality**

(An Applied study on the Egyptian Banking Sector)

Presented by

Shaimaa Sayed Mohamed El-Mehy

Thesis

Submitted in Fulfillment of the Requirements of Master Degree in Accounting

Supervisors

Prof. Dr. Zakaria Farid

Faculty of Commerce Ain Shams University

Prof. Dr. **Mohamed Ali Lotfy**

Professor of Accounting Associate Professor of Accounting **Faculty of Commerce Ain Shams University**

2018

Approval Sheet

Student Name: Shaimaa Sayed Mohamed El-Mehy

Title: "The Impact of Adopting BSC on Earnings Quality" (An Applied study on the Egyptian Banking Sector)

Degree: Master Degree in Accounting

Thesis

Submitted in Fulfillment of the Requirements of Master Degree in Accounting

Examination Committee

Prof. Dr. Zakaria Farid Abd El-Fattah

Professor of Accounting- Faculty of Commerce, Ain Shams University

(Supervisor and President)

Prof. Dr. Mohamed Hassan Abd El-Azzem

Professor of Accounting and Dean of Faculty of Commerce, Cairo University

(Member)

Prof. Dr. Mohammed Aly Lotfy

Associate Professor of Accounting, Faculty of Commerce, Ain Shams University

(Supervisor)

Prof. Dr. Amr Hussien Abd El Bar

Associate Professor of Accounting, Faculty of Commerce, Ain Shams University

(Member)

Date of Dissertation Defense: / / 2018

Approval Date : / /2018



سورة التوبة الآية (١٠٥)



Manks and Appreciation

In recognition of thanks and appreciation, I would like to thank:

Prof. Dr. / Zakaria Farid Professor of accounting, for his rich knowledge, constructive guidance and accuracy of observation. There are no words that can describe how grateful am i for supervising my master thesis.

I also extent my sincere thanks and respect to **Dr./Mohamed Ali Lotfy** Associate Professor of accounting, for his approval of joint supervision and his great assistance provided until the completion of the Master's thesis.

I would also like to thank **Dr. /Amr Hussien Abdelbar** Associate Professor of accounting, for participating in the Master thesis discussion and for his support from the beginning while preparing the research project.

I am really grateful for Prof. Dr. / Mohamed Hassan Abdelazim- Professor of Accounting and Dean of Faculty of Commerce- Cairo University for his precious time and for agreeing in participate in the master thesis.

Finally, I would like to thank My parents, Family and Friends for their support and encouragement and standing by me until finishing my master's thesis, Really grateful for your support.

Abstract

Shaimaa Sayed Mohamed El-Mehy

The Impact of Adopting BSC on Earnings Quality

(An Applied study on the Egyptian Banking Sector)

Ain Shams University, Faculty of commerce Accounting and auditing department 2018

Nowadays, Banks are facing severe competition and challenges to cope with speedily development in bank's markets. So, banks have to adopt a comprehensive performance management system like balanced scorecard (BSC) to be able to compete and survive. Banks have to not focus merely on financial indicators only. It is essential to give more attention to non-financial measures as well in order to be satisfied with the banks performance and to increase earnings quality of the bank.

This research examined the impact of adopting balanced scorecard on earnings quality. In order to achieve the research objectives a questionnaire was used for non-financial data collection and distributed randomly among the employees working in the Egyptian banking sector, with a total sample size of 290 questionnaires, data were collected and analyzed using the SPSS, while the financial data were collected directly from the financial statements of banks from the time period 2009 to 2016. Four banks were chosen; two of them were publicly held banks; two privately owned bank. The researcher used the statistical program EVIEWS VR. (9) for analyzing the financial data collected from the financial statement.

The most important research result, that there is a significant relationship between using both financial and non-financial measures and increasing banks' earnings quality. Accordingly this will help top level managers to give more attention to areas that need improvement most in order to increase the earnings quality.

Keywords: Balanced scorecard (BSC), Strategy Map, Earnings quality, Egyptian Banking sector.

Table of Contents

Serial	Contents	Page No.			
	Acknowledgement	II			
	Abstract	III			
	Table of Contents	IV			
	List of Tables				
	List of Figures	VIII			
	Chapter One:				
The General Framework of the Research					
1/1	Introduction	1			
1/2	Statement of the Problem	4			
1/3	The objectives of the research	6			
1/4	The Importance of the research	7			
1/5	Variables & Hypotheses	7			
1/6	Research Methodology	8			
1/7	Research Plan	9			
	Chapter Two:				
Literature Review					
2/1	Introduction	10			
2/2	Studies related to Balanced Scorecard and its evolution	11			
2/3	Studies related to the application of earning quality	24			
2/4	Summary	34			
Chapter Three:					
Balanced Scorecard and Banks					
	Introduction	35			

Serial	Contents	Page No.			
	Section One:				
	Problems facing the Banking Sector				
3/1/1	Introduction	36			
3/1/2	Banks' regulations and supervision	37			
3/1/3	Earnings quality	43			
3/1/4	Challenges facing banking sector	47			
3/1/5	Financial indicators analysis	50			
3/1/6	Summary	57			
	Section Two:				
Impl	amonting halanged secregard to impr	ovo oorning			
mpi	ementing balanced scorecard to impr	ove earning			
quality of banking sector					
3/2/1	Introduction	58			
3/2/2	Balanced scorecard definition	60			
3/2/3	Balanced scorecard Perspectives	61			
3/2/4	The advantages of implementing the balanced	70			
	scorecard				
3/2/5	Criticism of the BSC	71			
3/2/6	Strategy map	73			
3/2/7	Link between SWOT analysis and the BSC	76			
3/2/8	Summary	79			
	Chapter Four:				
Research Methodology and Data Analysis					
	Introduction	81			

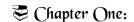
Serial	Contents	Page No.			
Section One:					
	Research Methodology				
4/1/1	Population and sample of the study	82			
4/1/2	Data collection	82			
4/1/3	Research hypotheses	85			
4/1/4	Statistical analysis techniques	87			
4/1/5	Limitation of the study	87			
	Section Two:				
Data Analysis					
4/2/1	Introduction	88			
4/2/2	Statistical data analysis	88			
4/2/3	Applied of the proposed financial indicators to	101			
	assess the performance of banks				
	Chapter Five:				
S	ummary, Conclusions and Recommend	ations			
5/1	Summary	105			
5/2	Conclusions	106			
5/3	Recommendations	108			
5/4	Further researches	110			
	References	111			
	Appendix I	118			
	Appendix II	125			
	English summary	1			
	Arabic summary	1			

List of Tables

Table No.	Table Title	Page No.
(4-1)	No. of questionnaire has been collected	84
(4-2)	Sample percent according to gender	89
(4-3)	Sample percent according to age	89
(4-4)	Sample percent according to educational	90
	level	
(4-5)	Sample percent according to years of	91
	experience	
(4-6)	Reliability test using "Alpha Cronbach's"	92
(4-7)	Questionnaire validity	93
(4-8)	Correlation coefficient between the BSC non-	94
	financial perspectives and bank's earnings	
	quality	
(4-9)	Regression test by using step wise method	95
(4-10)	Descriptive statistics of applied study	96
	regarding customer perspective	
(4-11)	Descriptive statistics of applied study	97
	regarding internal business process	
	perspective	
(4-12)	Descriptive statistics of applied study	98
	regarding learning and growth perspective	
(4-13)	Descriptive statistics of applied study	99
	regarding social and environmental	
	perspective	
(4-14)	Descriptive statistics of applied study	100
	regarding banks' earnings quality	
(4-15)	Normal distribution test	102
(4-16)	Multi regression test using stepwise	102
ļ	regression	

List of Figures

Figure No.	Figure Title	Page No.
(3-1)	Balanced scorecard perspectives	63
(3-2)	The Principles of a strategy focused organization	68
(3-3)	SWOT matrix	79



The General Framework of the Research

1/1 Introduction:

Banking system in Egypt is a cornerstone of its financial architecture and evidently plays a crucial role in overall economic development and growth. The safety and soundness of banking system is important not only because it prevents economic downturns related to financial panics, but also because it avoids adverse budgetary consequences for governments, which often bear a significant part of the costs of the bailout.

The modern complex economic system cannot function without banks. Banking system is facilitating the personal transactions, such as deposits, remittance of money, lending and borrowing of money. It becomes easier to develop agriculture, industry and trade. At the same time, it helps to accelerate the pace of economic development. Banks help in mobilizing and allocating scarce resources, which are essential for economic development.

Banking sector is an integral part of the broader financial system and constitutes a key provider of finance to business. In general, a healthy, robust and stable banking sector plays a crucial role in supporting economic activity, promoting economic growth, and ensuring financial stability.

Bank's role is essential for each country's economy, since no growth can be achieved unless savings are efficiently channeled into

investment. Therefore, reforming the banking sector and creating a new culture of trust and confidence has been a crucial task in the process of transition to a market economy.

Managers have focused on financial ratios to measure the performance. Moreover, banks need to reevaluate their performance measures to achieve more effective performance.

Traditional methods of measuring banking performance by financial indices alone have virtually disappeared from large organizations. Currently, non-financial measures are at the core of describing strategy and of developing a unique set of performance measures that clearly communicate business strategy. Banks are looking for a strategic performance management tool that links performance to strategy using a multi-dimensional set of financial and non-financial performance measures. (1)

It is essential for banking sector to enhance a performance evaluation system that encompasses all aspects of the banking sector, In order to achieve a long term survival, growth and development. Such a system should be able to bring out strengths and weaknesses of the banking sector for the purpose of improvement.

Kaplan and Norton (1992) (2) proposed the concept of the balanced scorecard (BSC) to overcome the problems that result from

⁽¹⁾ Tariq H. Ismail (2007), "Performance evaluation measures in the private sector: Egyptian practice", **Managerial Auditing Journal**, (Vol. 22, No. 5), pp. 503-513.

⁽²⁾ Robert S. Kaplan & David P. Norton (1992),"The balanced scorecard measures that derive performance", **Harvard Business Review**, (Vol. 70, Iss.1), pp.71–79.

the sole reliance on financial measures while evaluating the business performance. The BSC has been widely adopted in the evaluation of performance from four perspectives: finance, organizational customer, internal business process, and learning and growth. These perspectives are associated with four functions of accounting and finance, marketing, value chains, and human resources, respectively. Each perspective helped top level managers to answer a basic performance question: How does each level of top manager look to shareholders? How do customers see the banking sector? What must top level managers excel at? What top level managers can do to improve and create value? However, studies of how to analyze causal relationship between evaluation criteria, distinguish influential factors, and create an effective mechanism for the establishments of a implementation of evaluation criteria Consequently, managers are challenged by the delineation of strategies that can both analytically and organizationally link together performance indicators and performance drivers, while allowing for the implementation of the BSC process.

The balanced scorecard has focused mainly on performance measures without taking into consideration the casual relationship between performance indicators. To enhance performance, balanced scorecard should be incorporated into performance measurement model through constructing feasible strategy map.

Many executives just give their employee limited information about what they should do. That could lead to a quick failure. Because how the employee should achieve a plan that they do not fully understand. Organizations need tools for easily communicating

both their strategy and processes that will help employee implement their strategy.

Strategy map provide such a tool by introduced three principles that link an organization's BSC to its strategy: (1) cause / effect relationships, (2) performance drivers, and (3) linkage to financial goals. Organizations give employees clear and overall lines into how their jobs are linked to the overall objectives of the organization. To make the employees work in a coordinated and collaborative way toward achieving desired goals. (1)

The performance measurement scorecard makes a balance between leading and lagging indicators, short and long-term objectives, and external and internal performance perspectives. It also forced management to concentrate on drivers of future performance and not just on past performance. These operational drivers and measures complemented the traditional financial measures, providing a more comprehensive picture of the company's performance. (2)

1/2 Statement of the Problem

Because of the intangible nature of the products and services provided by banking institutions, one cannot easily measure the efficiency and competitiveness of banking products and services. Most available researches have focused on measuring the

⁽¹⁾ Hung-Yi Wu (2012), "Constructing a strategy map for banking institutions with key performance indicators of the balanced scorecard", **Evaluation and Program Planning**, (vol.35, Iss.3), pp.303–320.

⁽²⁾ Lynn Bible, Stephen Kerr, and Michael Zanini (2007),"The Balanced Scorecard: Here and Back", **Management Accounting Quarterly**, (Vol. 7, No. 4), pp.18-23.

productivity and efficiency of the banking industry by measuring outputs, costs, and performance. Moreover, many of the studies only use financial ratios to evaluate banking performance. Most of the traditional performance measures in banking focus on external financial reporting. However, focusing solely on these external reports has kept banks from long-term planning, growing, innovating, and learning. Furthermore, banks need to completely reassess their performance measurement in order to meet customer needs and requirements. To achieve more effective performance, banks must align their goals with those of their clients' services. (1)

In the Banking sector, the survival of the banking sector depends on its ability to both evaluate current performance and identify strategies to improve the quality of planning and control decisions. To help them doing this, banks' managers have used a variety of measurements techniques and performance evaluation tools. Many researchers have tried to examine management accounting practices and performance evaluation measures in developed countries, along with individual benchmarking dimensions. However, there is a lack of empirical researches examining Egyptian banking sector practices of using performance evaluation measures and analyzing factors that may affect the selection of those measures. (2)

⁽¹⁾ Hung-Yi Wu (2012), op.cit., pp. 303–320.

⁽²⁾ Tariq H. Ismail (2007), op.cit., pp. 503-513.