THE IMPACT OF INTELLECTUAL CAPITAL ON THE FINANCIAL PERFORMANCE OF LISTED NIGERIAN FOOD PRODUCTS COMPANIES

SHAFIU ABUBAKAR KURFI
(816351)

MASTER OF SCIENCE (International Accounting)
UNIVERSITI UTARA MALAYSIA
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THE IMPACT OF INTELLECTUAL CAPITAL ON THE FINANCIAL PERFORMANCE OF LISTED NIGERIAN FOOD PRODUCTS COMPANIES

By:

SHAFI’U ABUBAKAR KURFI

Project paper submitted to Othman Yeop Abdullah Graduate School of Business, Universiti Utara Malaysia, in Fulfilment of the Requirement for the Degree of Master of Science (International Accounting).
DECLARATION

I declare that this thesis entitled “The impact of intellectual capital on the financial performance of listed Nigerian food products companies” is a result of my own able research work excepts as cited in the references. Thus, the thesis has not been accepted for any degree and is not concurrently submitted as a candidate of any other degree. I certify that any help I received in carrying out this thesis and all the sources that I used have been acknowledged.

Shafi’u Abubakar Kurfi
816351
School of Accountancy
College of Business
University Utara Malaysia
06010 Sintok
Kedah

December 2015
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ABSTRACT

The main aim of this study is to examine the impact of intellectual capital (IC) on financial performance of listed Nigerian food products companies for five-year period i.e. 2010-2014 by adopting Pulic (1998) model of IC known as value added intellectual coefficient (VAIC). Regression models are used to test the hypotheses of the study where results of the study show that there is positive significant influence of IC on financial performance. Likewise, the results show that structural capital (SC) and capital employed (CE) influence the financial performance of Nigerian food products companies. Based on the resource-based theory, the results prove that companies can enhance financial performance by emphasising on IC especially in food products companies.

Key words: intellectual capital, VAIC, financial performance, Nigeria
ABSTRAK


Kata kunci: modal intelek, VAIC, produk makanan, Nigeria
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Shaﬁ’u Abubakar Kurﬁ
School of Accountancy
College of Business
Universiti Utara Malaysia

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# TABLE OF CONTENTS

DECLARATION ......................................................................................................................... iii
PERMISSION TO USE ........................................................................................................ iv
ABSTRACT ............................................................................................................................. v
ABSTRAK .............................................................................................................................. vi
ACKNOWLEDGEMENTS ...................................................................................................... vii
LIST OF TABLE ................................................................................................................. xii
LIST OF ABBREVIATIONS ................................................................................................. xiii

CHAPTER ONE: INTRODUCTION

1.0 Background of the Study ............................................................................................... 1
1.1 Problem Statements ..................................................................................................... 7
1.2 Research Questions ..................................................................................................... 10
1.3 Research Objectives .................................................................................................. 10
1.4 Significance of the Study ......................................................................................... 10
1.5 Scope of the Study ..................................................................................................... 11
1.6 Summary .................................................................................................................... 12
1.7 Organization of the Thesis ........................................................................................ 12

CHAPTER TWO: LITERATURE REVIEW

2.0 Introduction .................................................................................................................. 13
2.1 Concept of Firm Performance .................................................................................... 13
2.2 The Concept of Intellectual Capital ......................................................................... 14
2.3 Structural Capital ...................................................................................................... 16
2.4 Capital Employed ....................................................................................................... 17
2.6 Review of Related Empirical Studies ...................................................................... 18
2.7 Summary ..................................................................................................................... 25

CHAPTER THREE: RESEARCH METHODOLOGY

3.0 Introduction .................................................................................................................. 26
3.1 Theoretical Framework ............................................................................................. 26
3.1.2 Resource-Based Theory ...................................................................................... 27
3.1.3 Research Framework ......................................................................................... 29
3.2 Hypothesis Development ................................................................. 31
  3.2.1 Intellectual Capital and Financial Performance ......................... 31
  3.2.2 Structural Capital ................................................................. 32
  3.2.3 Capital Employed ................................................................. 32
3.3 Research Design ........................................................................... 33
  3.3.1 Population of Interest ............................................................. 33
  3.3.2 Sample Size and Technique .................................................. 34
3.4 Data Collection ............................................................................. 34
  3.4.1 Data Collection Method ......................................................... 35
3.5 Measures of Variables .................................................................. 35
  3.5.1 Dependent Variable .............................................................. 35
  3.5.2 Independent Variables ......................................................... 36
    3.5.2.1 Value Added Intellectual Coefficient (VAIC) ....................... 37
3.6 Control Variables ......................................................................... 38
  3.6.1 Size of Firm ......................................................................... 39
  3.6.2 Leverage ............................................................................. 39
3.7 Model Specification ..................................................................... 39
  3.8.1 Descriptive Statistics ............................................................ 40
  3.8.2 Correlation Analysis ............................................................. 41
  3.8.3 Multiple Regression ............................................................ 41
  3.8.4 Stata 11 ............................................................................. 42
3.9 Summary ....................................................................................... 42

CHAPTER FOUR: DATA ANALYSIS AND RESULTS
4.0 Introduction .................................................................................. 43
  4.1 Descriptive Statistics ................................................................. 43
    4.2.1 Normality Test ................................................................... 45
    4.2.2 Multicollinearity ............................................................... 46
4.3 Hypotheses Testing ..................................................................... 48
  4.3.1 Regression Analysis ............................................................ 48

CHAPTER FIVE: CONCLUSION AND RECOMMENDATION .......... 53
5.0 Introduction .................................................................................. 53
  5.1 Discussions of the Results ......................................................... 53
  5.2 Conclusion ............................................................................... 54
# LIST OF TABLES

<table>
<thead>
<tr>
<th>TABLE</th>
<th>NAME OF THE TABLE</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Table 1.1</td>
<td>Sectors and Number of Listed Companies in NSE</td>
<td>4</td>
</tr>
<tr>
<td>Table 1.2</td>
<td>Consumer Goods Companies in NSE</td>
<td>5</td>
</tr>
<tr>
<td>Table 3.1</td>
<td>Study Population</td>
<td>33</td>
</tr>
<tr>
<td>Table 3.2</td>
<td>Sample Size</td>
<td>34</td>
</tr>
<tr>
<td>Table 4.1</td>
<td>Descriptive Statistics for VAIC &amp; ROA</td>
<td>43</td>
</tr>
<tr>
<td>Table 4.2</td>
<td>Descriptive Statistics for SC and CE with ROA.</td>
<td>44</td>
</tr>
<tr>
<td>Table 4.3</td>
<td>Result of Normality Test of Model 1</td>
<td>45</td>
</tr>
<tr>
<td>Table 4.4</td>
<td>Result of Normality Test of Model 2</td>
<td>45</td>
</tr>
<tr>
<td>Table 4.5</td>
<td>Correlation of Firms’ Financial Performance and VAIC</td>
<td>46</td>
</tr>
<tr>
<td>Table 4.6</td>
<td>Correlation of Firms’ Financial Performance and SC and CE</td>
<td>47</td>
</tr>
<tr>
<td>Table 4.7</td>
<td>VIF: Financial Performance and VAIC</td>
<td>47</td>
</tr>
<tr>
<td>Table 4.8</td>
<td>VIF: Financial Performance and SC and CE</td>
<td>47</td>
</tr>
<tr>
<td>Table 4.9</td>
<td>Regression: Financial Performance and VAIC</td>
<td>48</td>
</tr>
<tr>
<td>Table 4.10</td>
<td>Regression: Financial Performance and SC and CE</td>
<td>50</td>
</tr>
</tbody>
</table>
LIST OF ABBREVIATIONS

CBN  Central Bank of Nigeria
CE   Capital Employed
HC   Human Capital
IC   Intellectual Capital
NBS  National Bureau of Statistics
NSE  Nigerian Stock Exchange
ROA  Return on Asset
SC   Structural Capital
VA   Value Added
VAIC Value Added Intellectual Coefficient
CHAPTER ONE

INTRODUCTION

1.0 `Background of the Study

The word “capital” has been in existence since the middle ages. It has been used by many famous economists, who always given it a special meaning in their theories. However, no layperson has any real trouble knowing basically what the word stand for. In every speech, capital and money are interchangeable (Hudson, 1993). Fathi, Farahmand & Khorasani (2013) opined that, in business language, capital denotes to any means that will deliver future cash flows. The most surely understood resource sorts are tangible in nature. Tangible capital refers to the touchable assets both financial and non-financial of the organizations.

Currently, intangible assets is another types of assets besides tangible. This includes the aptitudes of the workforce and its association, which are progressively getting to be important towards deciding future profits as economies of the world are transforming from manufacturing base towards knowledge-based economic activity. Drucker (1993) indicates that knowledge-based economic activity is the superior to land, labour and capital. Scholarly capital or known as intellectual capital (IC) is recognized as a strategic asset which gives competitive advantages by driving associations for superior performance in the current learning based economies (Kalkan, Bozkurt & Arman, 2014).

IC as defined by Bontis (1998) and Choudhury (2010) is the total knowledge that is surrounded in the personnel, organizational routines and network relationships of an
The contents of the thesis is for internal user only


Al-shubiri, F. N. (2013). The impact of value added intellectual coefficient


http://jom.sagepub.com/cgi/doi/10.1177/0149206308330560


Zeghal, D., & Maaloul, A. (2010). Analysing value added as an indicator of intellectual