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A MODERATING ROLE OF BOARD CHARACTERISTICS ON THE EFFECT OF ANTECEDENTS ON THE STAGE OF ENTERPRISE RISK MANAGEMENT IMPLEMENTATION



DOCTOR OF PHILOSOPHY UNIVERSITI UTARA MALAYSIA

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ABSTRACT

Enterprise Risk Management (ERM) has become an important issue of increasing attention among the business community throughout the world. However, the concept is still relatively new among Nigerian companies and little is known about why many organizations are not fully implementing it. The main objective of this study is to examine the current state of ERM practices and the stage of its implementation in the Nigerian banking sector. The study further examined the effect of the antecedents on the stage of ERM implementation, and evaluated the moderating effect of board characteristics on the relationship between antecedents and the stage of ERM implementation. The study used a survey approach to collect cross-sectional data across 361branches and the headquarters of the 21 Nigerian commercial banks using 722 respondents. The response rate is 60 percent. Logistic Regression Model was used for data analysis. The finding revealed that there is an ERM complete in place in majority of the banks. Furthermore, the finding showed that internal audit effectiveness, human resource competency and top management commitment effect significant influence on the stage of ERM implementation while regulatory influence had partial effect. Likewise, there is a moderating effect of board characteristics on internal audit effectiveness and the stage of ERM implementation. The finding has a policy implication for the Board of Directors to improve their oversight functions and the regulatory authorities to entrench risk based supervision in all the Nigerian banks. Nevertheless, the study has limitation in terms of power of prediction with respect to measurement scale of the dependent variable and the respondents. Future research is therefore needed to evaluate the effectiveness of ERM process using a more robust scale and top management as respondents. Therefore, a clarion call is made to introduce an ERM practices across all the Nigerian companies irrespective of their status.

Keywords: Board characteristics; enterprise risk management; board directors; Nigerian banks; shareholder value.

ABSTRAK

Pengurusan Risiko Perusahaan atau Enterprise Risk Management (ERM) telah menjadi isu penting yang semakin mendapat perhatian dalam kalangan komuniti perniagaan di seluruh dunia. Walau bagaimanapun, konsep ini masih agak baharu dalam kalangan syarikat perusahaan di Nigeria dan tidak banyak yang diketahui tentang mengapa banyak organisasi tidakmelaksanakan ERM ini sepenuhnya. Objektif utama kajian adalah untuk menyelidik keadaan semasa amalan ERM dan tahap pelaksanaannya dalam sektor perbankan di Nigeria. Kajian ini menyelidik lebih mendalam tentang kesanantesedan pada peringkat pelaksanaan ERM, dan menilai kesan pengantara ciri-ciri lembaga pengarah terhadap antesedan dan peringkat pelaksanaan ERM. Dalam kajian ini, pendekatan tinjauan digunakan untuk mengumpul data keratan rentas daripada 361 cawangan dan ibu pejabat bagi 21 buah bank perdagangan Nigeria dengan menggunakan 722 responden.Dengan kadar maklum balas sebanyak 60 peratus, Permodelan Regresi Logistik digunakan untuk menganalisis data. Dapatan kajian menunjukkan terdapat ERM lengkap dalam kebanyakan bank tersebut. Tambahan pula, keberkesanan audit dalaman, kecekapan sumber manusia dan kesan komitmen pengurusan atasan mempengaruhi peringkat pelaksanaan ERM secara signifikan ,manakala pengaruh kawal selia memberikan kesan separa.Di samping itu, terdapat kesan pengantara ciri-ciri lembaga pengarah ke atas keberkesanan audit dalaman dan peringkat pelaksanaan ERM.Dapatan ini mempunyai implikasi dasar bagi Lembaga Pengarah untuk meningkatkan fungsi pengawasan dan pihak penguasa kawal selia untuk mengukuhkan kawalan penyeliaan risiko semua bank di Nigeria. Walau bagaimanapun, kajian ini agak terbatas dari segi kuasameramaldengan skala pengukuran pemboleh ubah bersandar dan responden. Oleh itu, kajian akan datang diperlukan untuk menilai keberkesanan proses ERM menggunakan skala yang lebih mantap dan menjadikan pihak pengurusan atasan sebagai responden. Oleh yang demikian, amalan ERM sememangnya amat perlu diperkenalkan kepada syarikat-syarikat perusahaan di seluruh Nigeria tanpa mengira status.

Kata kunci: Ciri-ciri lembaga pengarah; pengurusan risiko perusahaan; lembaga pengarah; bank Nigeria; nilai pemegang saham.

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LIST OF ABBREVIATIONS

ACCA Association of Chartered Certified Accountants

ACIB Association of Chartered Institute of Bankers

ANAN Association of National Accountants of Nigeria

APT Areas of Risk that Present Greatest Threat to the Bank

BCS Board Characteristics Support

BIS Bank for International Settlement

BOD Board of Directors

BOFI Banks and Other Financial Institutions

BRM Business Risk Management

CAE Chief Audit Executive

CAS Casualty Actuarial Society

CBN Central Bank of Nigeria

CEO Chief Executive Officer

CFO Chief Finance Officer

CFR Current Focus of Risk Management Efforts

CIMA Chartered Institute of Management Accountants

COSO Committee of Sponsoring Organisation of the Treadway

Commission

CORM Corporate Risk Management

CRM Credit Risk Management

CRO Chief Risk Officer

DEF Development of Enterprise Risk Management Framework

Div Dividend

ECB European Central Bank

ERM Enterprise Risk Management

EWRM Enterprise Wide Risk Management

FDIC Federal Deposit Insurance Corporation

GDP Gross Domestic Product

GRC Corporate Governance, Risk Management and Compliance

HRM Holistic Risk Management

HRC Human Resource Competency

IAE Internal Audit Effectiveness

IASB International Accounting Standard Board

ICAN Institute of Chartered Accountants of Nigeria

IIA Institute of Internal AuditingIMF International Monetary FundIRM Institute of Risk ManagementINRM Integrated Risk Management

ISE Istanbul Stock Exchange

ISM Information Security Management

ISPPIA International Standards for the Professional Practices of Internal

Auditing

KPMG Khynveld Peat Marwick Goendeler

MDB Money Deposit Bank

MEA Motivation for Enterprise Risk Management Adoption

MIA Middle Africa

NDIC Nigeria Deposit Insurance Corporation

NICON National Insurance Corporation of Nigeria

NIM Nigerian Institute of Management

NSE Nigerian Stock Exchange

OLS Ordinary Least Square

PCP Percentage of Correct Prediction

PLC Public Limited Company

R&D Research and Development

RIS Regulatory Influence Support

RMC Risk Management Committee

ROE Return on Equity

SAN Senior Advocate of Nigeria

SAP Structural Adjustment Progra

SEM Structural Equation Modeling

SERM Stage of Enterprise Risk Management Implementation

SOX Sarbanes-Oxley Act

S & P Standard and Poor

SPSS Statistical Package for Social Science

TMC Top Management Commitment

TRM Traditional Risk Management

TSE Toronto Stock Exchange

UK United Kingdom

US United States

VIF Variance Inflation Factor



CHAPTER ONE

INTRODUCTION

1.1 Background of the Study

Enterprise Risk Management (ERM) has gained an increased attention in recent years and has become a subject of interest to the stakeholders in the business world. Many companies and organisations have implemented ERM using different frameworks or through outsourcing services. The deployment of ERM in the organisations, especially the financial industry provides the required monitoring mechanism to effectively address potential risk exposures that can jeopardize the accomplishment of the objectives of the enterprise. Thus, the essence of ERM adoption is to ensure that corporate goal of raising the value of stakeholders is achieved. Enterprise Risk Management implementation further enables the entity to acquire advantage of risk and effectively convert it to an opportunity for the benefit of the enterprise.

Presently, most businesses and industries are facing various threats from risk exposures which have been on the increase, and are visible. These include compliance risk, competitiveness risk, financial risk, operational risk and strategic risk arising from technological advancement, globalization, incessant terrorist activities, diversification, information security and industrialization (Jalal-Karim, 2013). The management of risk exposures must be practical in terms of taking offensive action rather than defensive position. Therefore, managing such risk can be a real source of golden opportunity and challenge, and can be a powerful tool for supporting competitive advantage (Gatzert & Martin, 2013; Jalal-Karim, 2013). Enterprise Risk Management is therefore a roadmap to identifying and analysing the various risks faced by the enterprises from a business wide perspective.

The contents of the thesis is for internal user only

REFERENCES

- Abdi, H. (2003). Partial Least Squares Regression (PLS-regression). *Encyclopaedia* for Research Methods for the Social Sciences.
- Abdullah, N. S., Sadiq, S., & Indulska, M. (2012, January). A compliance management ontology: Developing shared understanding through models. *InAdvanced Information Systems Engineering* (pp. 429-444). Springer Berlin Heidelberg.
- Abdullah, N. A. M., Zakuan, N., Khayon, M., Ariff, M. S. M., Bazin, N. E. N., & Saman, M. Z. M. (2012). Adoption of enterprise risk management practices in organization: a review. *International Journal of Business Information Technology*, 2(1), 1-9.
- Abdullatif, M., & Kawuq, S. (2015). The role of internal auditing in risk management: evidence from banks in Jordan. *Journal of Economic and Administrative Sciences*, 31(1), 30-50.
- Adams, M. B. (1994). Agency theory and the internal audit. Managerial *Auditing Journal*, 9(8), 8-12.
- Adams, R. B., & Ferreira, D. (2009). Women in the boardroom and their impact on governance and performance. *Journal of Financial Economics*, 94(2), 291-309.
- Adams, R. B., & Mehran, H. (2003). Is corporate governance different for bank holding companies? *Available at SSRN 387561*. Retrieved May 5, 2014.
- Adams, R. B., & Mehran, H. (2008). Corporate performance, board structure, and their determinants in the banking industry (No. 330). Staff Report, Federal Reserve Bank of New York.
- Adegbite, E. (2012). Corporate governance regulation in Nigeria. *Corporate Governance*, 12(2), 257-276.

- Adekun, A.O, Ishola, R. A., & Felix, A. A (2011). The challenge of risk management in Nigerian banks in the post consolidation era. *Journal of Accounting and Taxation*, 3 (2), 2141 6664.
- Adeleye, B. C., Annansingh, F., & Nunes, M. B. (2004). Risk management practices in IS outsourcing: An investigation into commercial banks in Nigeria. *International Journal of Information Management*, 24(2), 167-180.
- Adeusi, S. O., Akeke, N. I., Adebisi, O. S., & Oladunjoye, O. (2014). Risk management and financial performance of banks in Nigeria. *European Journal of Business and Management*, 6(31), 336-342.
- Aebi, V., Sabato, G., & Schmid, M. (2012). Risk management, corporate governance, and bank performance in the financial crisis. *Journal of Banking & Finance*, 36(12), 3213-3226.
- Agrawal, A., & Knoeber, C. R. (1996). Firm performance and mechanisms to control agency problems between managers and shareholders. *Journal of Financial and Quantitative Analysis*, 31(03), 377-397.
- Agresti, A. (2002). Categorical Data Analysis (2nd ed.). Hoboken, NJ, USA: John Wiley & Sons.
- Aguilera, R. V., & Cuervo-Cazurra, A. (2009). Codes of good governance. *Corporate Governance and International Review*, 17(3), 376-387.
- Ahmad, F. (2014). *The quest for identity*. Turkey. Oneworld Publications.
- Ajibo, K. I. (2015). Risk-based regulation: the future of Nigerian banking industry. International Journal of Law and Management, 57(3), 201-216.
- Akanle, O., Adebayo, K., & Adetayo, O. (2014). Fuel subsidy in Nigeria: contexts of governance and social protest. *International Journal of Sociology and Social Policy*, 34(1/2), 88-106.

- Akinbuli, S. F., & Kelilume, I. (2013). The effects of mergers and acquisition on corporate growth and profitability: evidence from Nigeria. *Global Journal of Business Research*, 7(1), 43-58.
- Akpan, E. O., & Amran, N. A. (2014). Board characteristics and company performance: Evidence from Nigeria. *Journal of Finance and Accounting*, 2(3), 81-89.
- Allen, D. E. (2000). Spare debt capacity: Company practices in Australia, Britain and Japan. *Australian Journal of Management*, 25(3), 299-326.
- Alford, D. (2012). Reform of the Nigerian banking system–assessment of the Asset management corporation of Nigeria (AMCON) and recent developments.

 Available atSSRN 2006057. Retrieved October 12, 2015.
- Al-Janadi, Y., Rahman, R. A., & Omar, N. H. (2013). Corporate governance mechanisms and voluntary disclosure in Saudi Arabia. *Corporate Governance*, 4(4), 25-35.
- Al-khateeb, B. A. A., & Dahalin, Z. B. M. (2013). Information source, information channels and information choice: the mediating effect of personal characteristics.

 Proceedings of the 4th International Conference on Computing and Informatics, ICOCI 2013: (http://www.uum.edu.my)
- Al-Matari, E. M., Al-Swidi, A. K., Fadzil, F. H., & Al-Matari, Y. A. (2012). The impact of board characteristics on firm performance: Evidence from nonfinancial listed companies in Kuwaiti Stock Exchange. *International Journal of Accounting and Financial Reporting*, 2(2), 310-332.

- Altuntas, M., Berry-Stölzle, T. R., & Hoyt, R. E. (2011). Implementation of enterprise risk management: Evidence from the German property-liability insurance industry. *The Geneva Papers on Risk and Insurance-Issues and Practice*, *36*(3), 414-439.
- AMB country risk report (2014), Nigeria.(country.risk@ambest.com).
- Amihud, Y.& Lev, B. (1981). Risk reduction as a managerial motive for conglomerate mergers. *The Bell Journal of Economics*, *12*(2), 605-617.
- Al-Twaijry, A. A., Brierley, J. A., & Gwilliam, D. R. (2004). An examination of the relationship between internal and external audit in the Saudi Arabian corporate sector. *Managerial Auditing Journal*, 19(7), 929-944.
- Anderson, R. C., Mansi, S. A., & Reeb, D. M. (2004). Board characteristics, accounting report integrity, and the cost of debt. *Journal of Accounting and Economics*, 37(3), 315-342.
- Andrea, J.S. (2010) "Fraud, risk management in the banking industry".http://www.srr.com/article/fraud-risk-management-banking-industry.
- Andrew K, Til -Schuermann & Scott M. W., (2003). Risk measurement, risk management and capital adequacy in financial conglomerates. Brookings-Wharton Papers on Financial Services, Washington, D.C, USA.
- Anguka, W. O. (2012). The influence of financial risk management on the financial performance of Commercial Banks in Kenya (Unpublished Doctoral dissertation). University of Nairobi, Kenya.
- Arena, M., & Azzone, G. (2009). Identifying organizational drivers of internal audit effectiveness. *International Journal of Auditing*, 13(1), 43-60.

- Arena, M., Arnaboldi, M., & Azzone, G. (2010). The organizational dynamics of enterprise risk management. *Accounting, Organizations and Society*, *35*(7), 659-675.
- Armstrong, J. S., & Overton, T. S. (1977). Estimating nonresponse bias in mail surveys. *Journal of Marketing Research*, *14*(4), 396-402.
- Arnold, V., Benford, T., Canada, J., & Sutton, S. G. (2011). The role of strategic enterprise risk management and organizational flexibility in easing new regulatory compliance. *International Journal of Accounting Information Systems*, 12(3), 171-188.
- Arora, A. (2013). Ownership effects on credit risk management strategic decisions:

 Evidence from Indian banking sector. *IUP Journal of Financial Risk Management*, 10(3), 45-63.
- Arun, T. G., & Turner, J. D. (2002). Corporate governance of banking institutions in developing economies: the Indian experience. In *conference on 'Finance and Development'organized by IDPM*, The University of Manchester, USA.
- AS/NZS4360: 1999 Risk management. NSW 2140, Australia, and Standards New Zealand, Wellington, 6001, New Zealand.
- AS/NZS 4360:2004 Risk management Australian and Standards New Zealand, Wellington, 6001, New Zealand.
- Aswadi Abdul Wahab, E., Mat Zain, M., & James, K. (2011). Political connections, corporate governance and audit fees in Malaysia. *Managerial Auditing Journal*, 26(5), 393-418.
- Babbie, E. R. (1990). *Survey Research Methods*: Belmont, California, Wadsworth Publication Company.

- Babbie E., Halley F., & Zaino J. (2003). *Adventures in social research. Data analysis using SPSS 11.0/11.5 for windows*, (5th ed.). Thousand Oaks, CA: Sage Publication.
- Badara, M. A. S., & Saidin, S. Z. (2012). Impact of the effective internal control system on the internal audit effectiveness at local government level. *Journal of Social and Development Sciences*, 4(1), 16-23.
- Badara, M. A. S., & Saidin, S. Z. (2013). The relationship between audit experience and internal audit effectiveness in the public sector organizations. *International Journal of Academic Research in Accounting, Finance and Management Sciences*, 3(3), 329-339.
- Badara, M. A. S., & Saidin, S. Z. (2014). Empirical evidence of antecedents of internal audit effectiveness from Nigerian perspective. Middle-East *Journal of Scientific Research*, 19(4), 460-469.
- Badara M. A. S., & Saidin, S. Z. (2014). Internal audit effectiveness: Data screening and preliminary analysis. *Asian Social Science*, 10(10), 76-83.
- Baker, H. K., & Anderson, R. (Eds.). (2010). Corporate governance: A synthesis of theory, research, and practice: John Wiley & Sons.
- Balin, B. J. (2008). Basel I, Basel II, and emerging markets: A nontechnical analysis. The John Hopkins University School of Advanced International Studies, USA.
- Bambale, A. J. A., Shamsudin, F. M., & Subramanian, C. (2013). The construct validity of servant leadership in Nigerian public utility organizations. International Journal of Global Business, 6(2), 16-35.
- Banham, R. (2004). Enterprising views of risk management. *Journal of Accountancy*, 197(6), 65-71.

- Banks and Other Financial Institutions Act 1991 (As Amended In 1997, 1998, 1999 And 2002). Nigeria.
- Bank for International Settlements (2003), Risk management principles for electronic Banking. Bank for International Settlements, Basel.
- Baron, R. M., & Kenny, D. A. (1986). The moderator–mediator variable distinction in social psychological research: Conceptual, strategic, and statistical considerations. *Journal of Personality and Social Psychology*, *51*(6), 1173-1182.
- Barnhart, S. W., Marr, M. W., & Rosenstein, S. (1994). Firm performance and board composition: Some new evidence. *Managerial and Decision Economics*, 15(4), 329-340.
- Basel Committee on Banking Supervision (2003), Sound practices for the management and supervision of operational risk, Bank for International Settlements, Basel.
- Basel Committee on Banking Supervision (2003), Trends in risk integration and aggregation, Bank for International Settlements, Basel.
- Basel Committee on Banking Supervision (2006), Corporate governance for banking organizations (Enhancing corporate governance for banking organizations), Bank for International Settlements, Basel.
- Basel Committee on Banking Supervision (2008), Principles for sound liquidity risk management and supervision, Bank for International Settlements.
- Beasley, M. S. (1996). An empirical analysis of the relation between the board of director composition and financial statement fraud. *Accounting Review*, 71(4), 443-465.

- Beasley, M. S., Clune. R., & Hermanson, D. (2006). The impact of enterprise risk management on the internal audit function. DigitalCommons@ Kennesaw State University, USA.
- Beasley, M. S., Clune, R., & Hermanson, D. R. (2005). Enterprise risk management:

 An empirical analysis of factors associated with the extent of implementation. *Journal of Accounting and Public Policy*, 24(6), 521-531.
- Beasley, M., Branson, B., & Hancock, B. (2009). Report on the current state of enterprise risk oversight. Raleigh, NC: *ERM Initiative at North Carolina State University*. www.erm.ncsu.edu, Retrieved August, 2014.
- Beasley, M., Branson, B., & Hancock, B. (2010). Report on the current state of enterprise risk oversight. *The ERM Initiative at North Carolina State University*, *Raleigh*, *NC.www.erm.ncsu.edu*, Retrieved August, 2014.
- Beasley, M., Branson, B., & Hancock, B. (2015)Report on the current state of enterprise risk oversight: Update on trends and opportunities. 6th Edition, February 2015. *The ERM Initiative at North Carolina State University, Raleigh, NC.*www.erm.ncsu.edu, Retrieved August, 2014.
- Beasley, M., Pagach, D., & Warr, R. (2008). Information conveyed in hiring announcements of senior executives overseeing enterprise-wide risk management processes. *Journal of Accounting, Auditing & Finance*, 23(3), 311-332.
- Beasley, M. S., Branson, B. C., & Hancock, B. V. (2010). COSO's 2010 Report on ERM. Current State of Enterprise Risk Oversight and Market Perceptions of COSO's ERM Framework.
- Beattie, V., & Fearnley, S. (1995). The importance of audit firm characteristics and the drivers of auditor change in UK listed companies. *Accounting and Business Research*, 25(100), 227-239.

- Becht, M., & Bolton, P. (2002). Corporate Governance and Control", ECGI Working Paper Series in Finance, Working Paper.
- Beltrán-Martín, I., Roca-Puig, V., Escrig-Tena, A., & Bou-Llusar, J. C. (2008). Human resource flexibility as a mediating variable between high performance work systems and performance. *Journal of Management*, *34*(5), 1009-1044.
- Beneda, N. (2005). Managing an asset management firm's risk portfolio. *Journal of Asset Management*, 5(5), 327-337.
- Berger, A., Frame, W. S., & Miller, N. (2002). Credit scoring and the availability, price, and risk of small business credit. Federal Reserve Bank of Atlanta Working Paper 2002-6, April 2002.
- Bernstein, P. L., & Bernstein Peter, L. (1996). Against the gods: The remarkable story of risk. New York: Wiley.
- Bolton, P (2006): Corporate governance and development. Review of Financial Studies 19(3), 829-840.
- Boniface, U., & Ibe, I. G. (2012). Enterprise risk management and performance of Nigeria's brewery industry. *Developing Country Studies*, 2(10), 60–67.
- Bowen, G. A., (2006). Grounded theory and sensitizing concepts. *International Journal of Qualitative Methods*, 5(3). 12-23.
- Bowling, D. M., & Rieger, L., (2005). Success factors for implementing enterprise risk management. *Bank accounting and finance*, 18(3), 21-26.
- Boyd, J. H., & De Nicolo, G. (2005). The theory of bank risk taking and competition revisited. *The Journal of Finance*, 60(3), 1329-1343.
- Bratanovic, S. B., & Greuning, V. H. (2000). Analyzing banking risk, the World Bank. *Washington*, *DC*, USA.

- Brickley, J. A., Coles, J. L., & Terry, R. L. (1994). Outside directors and the adoption of poison pills. *Journal of financial Economics*, *35*(3), 371-390.
- Brickley, J. A., Coles, J. L., & Jarrell, G. (1997). Leadership structure: Separating the CEO and chairman of the board. *Journal of Corporate Finance*, 3(3), 189-220.
- Bromiley, P., McShane, M., Nair, A., & Rustambekov, E. (2015). Enterprise risk management: Review, critique, and research directions. *Long Range Planning*, 48(4), 265-276.
- Bryman, A., & Bell, E. (2015). *Business research methods*. Oxford university press. United Kingdom.
- Bryman, A., & Cramer, D. (2005). *Quantitative data analysis with SPSS 12 and 13: a guide for social scientists*. Psychology Press, Hove, United Kingdom.
- Bryman, A., & Bell, E. (2011). *Business research methods (*3rd ed.). Oxford university press, United Kingdom.
- Bryman, A. (2004). Qualitative research on leadership: A critical but appreciative review. *The Leadership Quarterly*, 15(6), 729-769.
- Burton, E. J. (2008). The audit committee: How should it handle ERM? *Journal of Corporate Accounting & Finance*, 19(4), 3-5.
- Caldwell, J. E. (2012). *A framework for board oversight of enterprise risk*. Toronto: Canadian Institute of Chartered Accountants.
- Campbell, K., & Mínguez-Vera, A. (2008). Gender diversity in the boardroom and firm financial performance. *Journal of Business Ethics*, 83(3), 435-451.
- Campbell, K., & Vera, A. M. (2010). Female board appointments and firm valuation:

 Short and long-term effects. *Journal of Management and Governance*, 14(1), 37-59.

- CAN/CSA-Q850-97 (1997), Risk management guideline for decision makers.

 Canadian Standards Association, Ontario, Canada
- Cardy, R. L., & Selvarajan, T. T. (2006). Competencies: alternative frameworks for competitive advantage. *Business Horizons*, 49(3), 235-245.
- Carey, A. (2001). Effective risk management in financial institutions: the Turnbull approach. *Balance Sheet*, 9(3), 24-27.
- CAS 2003, Overview of enterprise management, enterprise risk management committee, casualty actuarial society. Retrieved June, 9th 2012. http://www.casact.org/research/erm/overview.pdf
- Cassandra, S. L., Yee, A. S., Kieran, J, & Jenny, K. S. (2008). Perceptions of Singaporean internal audit customers regarding the role and effectiveness of internal audit. *Asian Journal of Business and Accounting*, 1(2), 147-174.
- Cassidy, D. (2005). Enterprise risk management (ERM): a new reality for businesses. *Employee Benefit Plan Review*, 59(11), 29-31.
- Cassidy, D., Goldstein, L., Johnson, S. L., Mattie, J. A., & Morley Jr, J. E. (2001).

 Developing a strategy to manage enterprise wide risk in higher education. Washington, DC: National Association of College and University Business Officers and PricewaterhouseCoopers.
- Casualty Actuarial Society 2003)-Enterprise risk management committee. Overview of enterprise risk management, May 2003. Via: http://www.casact.org/research/erm/overview.pdf.
- Cavana, R., Delahaye, B. L., & Sekeran, U. (2001). Applied business research:

 Qualitative and quantitative methods. John Wiley & Sons Australia.
- CBN. (2012). Exposure draft code for banks in Nigeria. Central Bank of Nigeria, 2012.

- CBN. (2011). Financial system stability, Dr. Chiedu K. Moghalu, remark made at the 2011 global policy forum of the Alliance for Financial Inclusion (AFI), in Mexico.
- CBN. (2006). Code of corporate governance for banks and discount houses in 2006.
- Central Bank of Nigeria act. (2007). Federal Government Official Gazette, No. 55, Lagos-1stJune, 2007, Vol.94, Government Notice No. 34.
- Central Bank of Nigerian. (2006). Code of corporate governance for banks in Nigeria post consolidation, (Effective date: April 3, 2006).
- Chatterjee, S., & Yilmaz, M. (1992). A review of regression diagnostics for behavioral research. *Applied Psychological Measurement*, 16(3), 209-227.
- Chaveerug, A. (2011). The role of accounting information system knowledge on audit effectiveness of CPAS in Thailand. *International Journal of Business Strategy*, 11(3), 78-89.
- Chisasa, J., & Young, J. (2013). Implementing a risk management framework in developing markets. *International Business & Economics Research Journal* (IBER), 12(6), 603-612.
- Chisick, H. (2008). Looking for enlightenment. *History of European Ideas*, *34*(4), 570-582.
- Chong, & Ismail. (2013). Is the risk management committee only a procedural compliance? An insight into managing risk taking among insurance companies in Malaysia. *Journal of Risk Finance*, 14(1), 71-86.
- Ciocoiu, N., Dobrea, C., & Berea, G. (2009). Improving organization performance through risk management in order to survive a crisis period. *Review of International Comparative Management*, 4(1), 481–488.

- Coakes, S. J. (2013). SPSS: Analysis without anguish: version 20.0 for Windows. Milton, Old 4064, Australia, John Wiley & Sons Ltd.
- Code of Corporate Governance for Listed companies, (2011) by the Security and Exchange Commission, Nigeria.
- Coelli, T. J., Rao, D. S. P., O'Donnell, C. J., & Battese, G. E. (2005). *An introduction to efficiency and productivity analysis*. Springer Science & Business Media, Australia.
- Cohen, A., & Sayag, G. (2010). The effectiveness of internal auditing: an empirical examination of its determinants in Israeli organizations. *Australian Accounting Review*, 20(3), 296-307.
- Collett, D. (2003). *Modeling binary data*, (2nd ed.). Chapman & Hall/CRC, Boca Raton, Fla, USA.
- Collier, P. M., & Berry, A. J. (2002). Risk in the process of budgeting. *Management Accounting Research*, 13(3), 273-297.
- Collier, J. (2007). Corporate governance in the European context: Evolving and adapting. *Business and Society Review*, 112(2), 271-285.
- Collier, P. M., Berry, A. J., & Burke, G. T. (2007). *Risk and management accounting:*best practice guidelines for enterprise-wide internal control procedures. Elsevier,
 United Kingdom.
- Colquitt, L. L., Hoyt, R. E., & Lee, R. B. (1999). Integrated risk management and the role of the risk manager. *Risk Management and Insurance Review*, 2(3), 43-61.
- Corbetta, G., & Salvato, C. A. (2004). The board of directors in family firms: one size fits all?. *Family Business Review*, *17*(2), 119-134.

- Coskun, Y. (2012). Financial failures and risk management. Coşkun, Yener. (2012). Financial Failures and Risk Management. Sermaye Piyasası Dergisi, 10(2), 100-109.
- Coskun, Y. (2013). Financial engineering and engineering of financial regulation:

 Guidance for compliance and risk management. *Journal of Securities Operations*& Custody, 6(1), 81-94.
- COSO, S. (1992). Internal control—integrated framework. *The Committee of Sponsoring Organizations of the Treadway Commission*, USA.
- COSO (2004). Committee of Sponsoring Organizations of the Tread way Commission. The (COSO, 2004). Enterprise risk management–integrated framework: executive summary, USA.
- COSO, (2004), COSO Enterprise risk management--integrated framework:

 Application techniques. Committee of Sponsoring Organizations of the Tread way Commission, USA.
- Crespí i Cladera, R., Salas Fumás, V., & García-Cestona, M. A. (2002). Governance mechanisms in Spanish financial intermediaries, Barcelona, Spain.
- Creswell, J. W. (2014). A concise introduction to mixed methods research. Sage Publications. United Kigdom.
- Creswell, J. W. (2013). Research design: Qualitative, quantitative, and mixed methods approaches. Thousand Oaks. London. New Delhi, Sage publication.
- Creswell, J. W. (2012). *Qualitative inquiry and research design: Choosing among five approaches*. Thousand Oaks. London. New Delhi, Sage Publications.
- Cristina, B. A., & Cristina, P. (2009). Measuring and assessment of internal audit's effectiveness. *Annals of Faculty of Economics*, *3*(1), 784-790.

- Crockford, G. N. (2005). The Changing Face of Risk Management (first published in 1976 in The Geneva Papers). *The Geneva Papers on Risk and Insurance-Issues and Practice*, 30(1), 5-10.
- Crouhy, M., Galai, D., & Mark, R. (2000). A comparative analysis of current credit risk models. *Journal of Banking & Finance*, 24(1), 59-117.
- Dabari, I. J., & Saidin, S. Z. (2014). A theoretical framework on the level of risk management implementation in the Nigerian banking sector: The moderating effect of top Management support. *Procedia-Social and Behavioral Sciences*, 164(1), 627-634.
- D'Arcy, S. P., & Brogan, J. C. (2001). Enterprise risk management. *Journal of Risk Management of Korea*, 12(1), 207-228.
- Dafikpaku, E. (2011). The strategic implications of enterprise risk management: A framework. In 2011 enterprise risk management symposium, 48(1), 58-86.
- Daily post Newspaper, (2014, February 22).
- Damodaran, A. (2012). Investment valuation: Tools and techniques for determining the value of any asset (Vol. 666). John Wiley & Sons, USA.
- Daud, W. N. W., & Yazid, A. S. (2009). A conceptual framework for the adoption of enterprise risk management in government-linked companies. *International Review of Business Research Papers*, 5(5), 229-238.
- Daud, W. N. W. D., Yazid, A. S., & Hussin, H. M. R. (2010). The effect of chief risk officer (CRO) on enterprise risk management (ERM) practices: evidence from Malaysia. *International Business & Economics Research Journal*, 9(11), 55-64
- Daud, W. N. W., Haron, H., & Ibrahim, D. N. (2011). The role of quality board of directors in enterprise risk management (ERM) practices: Evidence from binary logistic regression. *International Journal of Business and Management*, 6(12), 205-211.

- Davenport, E. W., & Bradley, L. M. (2001). Enterprise risk management: A consultative perspective. Casualty actuarial society discussion paper program.

 Working paper 23-42 Retrieved from http://www.casact.com onJuly 13th, 2009
- Davis, J. H., Schoorman, F. D., & Donaldson, L. (1997). Toward a stewardship theory of management. *Academy of Management review*, 22(1), 20-47.
- DeLoach, J. W. (2000). Enterprise-wide risk management: strategies for linking risk and opportunity. Financial Times Prentice Hall. Upper Saddle River, New Jersey.
- Deloitte, (2012). Enterprise risk management survey report, 2012. Where do you stand? Financial Service Industry, 2012.
- Deloitte, (2010). Global risk management survey, (8th ed). Setting a higher bar.
- Demidenko, E., & McNutt, P. (2010). The ethics of enterprise risk management as a key component of corporate governance. *International Journal of Social Economics*, 37(10), 802-815.
- Denscombe, M. (2014). The good research guide for small-scale social research projects. McGraw-Hill Education (UK).
- Desender, K. A. (2007). The influence of board composition on enterprise risk management implementation. *In2007 Information Resources Management Association Annual Meeting Paper*.Retrieved from www.wbiconpro.com/309-Doowon.pdo September 7th, 2014.
- Desender, K. A. (2011). On the determinants of enterprise risk management implementation. *Enterprise IT governance, business value and performance measurement, Nan Si Shi and Gilbert Silvius, eds., IGI Global.* De Vaus, D. (2013). *Surveys in Social Research*, Routledge.
- Dhamankar, R., & Khandewale, A. (2003). Effectiveness of internal audits. *Chartered Accountant-New Delhi-*, 52(3), 275-279.

- Dickinson, G. (2001). Enterprise risk management: Its origins and conceptual foundation. *The Geneva Papers on Risk and Insurance. Issues and Practice*, 26(3), 360-366.
- Dickson, G. C., & Hastings, W. J. (1989). Corporate risk management. Witherby, for the Institute of Risk Management, *16*(8), 443-450.
- Dittenhofer, M. (2001). Internal auditing effectiveness: an expansion of present methods. *Managerial Auditing Journal*, 16(8), 443-450.
- Dobbin, Frank, and Jiwook Jung (2011). "Corporate Board Gender Diversity and Stock Performance: The Competence Gap or Institutional Investor Bias?", (PP. 809-819), North Carolina Law Review, USA.
- Doherty, N. (2000). Integrated Risk Management: Techniques and Strategies for Managing Corporate Risk: Techniques and Strategies for Managing Corporate Risk. McGraw Hill Professional. New York, USA.
- Donwa, P., & Garuba, A. O. (2011). Prevailing global challenges and the accounting profession. *Franklin Business & Law Journal*, 1(2), 4-14.
- Doug, A., Burton, N., Cuthill, I., Festing, M., Hutton, J. & Playle, L. (2006). Why do a pilot study? Available on line at www.je-iks.org/index.php/full-volume/english-version-2005?task Retrieved on April 8th, 2011.
- Düztaş, S. (2008). Of board characteristics, information technology maturity and transparency on company performance (doctoral dissertation, Yeditepe University, published). Graduate Institute of Social Sciences, İstanbul, Turkey.
- Eckles, D. L., Hoyt, R. E., & Miller, S. M. (2014). The impact of enterprise risk management on the marginal cost of reducing risk: Evidence from the insurance industry. *Journal of Banking & Finance*, 43(2), 247-261.

- Economic and Financial Crimes Commission (EFCC, 2004). EstablishmentAct 2004.

 Laws of the Federation of Nigeria.
- Economist Intelligence Unit, (2001). Enterprise risk management: implementing new solutions. London Financial Times Press.
- Eisenhardt, K. M. (1989). Agency theory: An assessment and review. *Academy of Management Review*, 14(1), 57-74.
- Ekanayake, J., & Jenkins, N. (2004). Comparison of the response of doubly fed and fixed-speed induction generator wind turbines to changes in network frequency. Energy conversion, IEEE Transactions, 19(4), 800-802.
- Elias, A. A., & Cavana, R. Y. (2000, December). Stakeholder analysis for systems thinking and modeling. In Victoria University of Wellington, New Zealand. Conference paper.
- El Kharbili, M. (2012). Business process regulatory compliance management solution frameworks: A comparative evaluation. In *Proceedings of the Eighth Asia-Pacific Conference on Conceptual Modelling (pp.* 23-32), Australian Computer Society, Inc.
- Embrechts, P., Furrer, H., & Kaufmann, R. (2003). Quantifying regulatory capital for operational risk. *Derivatives Use, Trading & Regulation*, 9(3), 217-233.
- Ernst, C. G. (2001). Young. 2001. Web-based survey on electronic public services.

 Results of the First Measurement: *European Commission DG Information Society*.
- Ernst and Young (2008), global bank risk management survey (2008).
- Ernst and Young (2008). Global corporate venture capital survey, 2008-2009, Bench marking programs and practices. *European Commission DG Information Society*.

- Ernst and Young (2010). Global bank risk management survey, (2010). www.ey.com/...2008.../SGM VC Global corporate survey 2008 2009.
- Fadun, O. S. (2013). Risk management and risk management failure: Lessons for business enterprises. *International Journal of Academic Research in Business & Social Sciences*, 3(2), 225-239.
- Fadzil, F. H., Haron, H., & Jantan, M. (2005). Internal auditing practices and internal control system. *Managerial Auditing Journal*, 20(8), 844-866.
- Fadzly, M. N., & Ahmad, Z. (2004). Audit expectation gap: the case of Malaysia. *Managerial Auditing Journal*, 19(7), 897-915.
- Fairchild, A. J., & MacKinnon, D.P. (2009). A general model for testing mediation and moderation effects. Prevention Science, *Springer*, 10(2), 87–99.
- Fama, E. F. (1980). Agency problems and the theory of the firm. *The Journal of Political Economy*, 88(2), 288-307.
- Fama, E. F., & Jensen, M. C. (1983). Separation of ownership and control. *Journal of Law and Economics*, 26(2), 301-325.
- Fama, E. F., & Jensen, M. C. (1983). Agency problems and residual claims. *Journal of Law and Economics*, 26(2), 327-349.
- Fan, J. P., & Wong, T. J. (2005). Do external auditors perform a corporate governance role in emerging markets? Evidence from East Asia. *Journal of Accounting Research*, 43(1), 35-72.
- Farrer, J., & Ramsay, I. (1998). Director share ownership and corporate performance—evidence from Australia. *Corporate Governance: An International Review*, 6(4), 233-248
- Federal Deposit Insurance Corporation (FDIC, 2010). Retrieved from https://www.fdic.gov//news/financial/2010/index.html.

- Feizizadeh, A. (2012). Strengthening internal audit effectiveness. *Indian Journal of Science and Technology*, 5(5), 2777-2778.
- Financial Reporting Council of Nigeria Act, 2011. Federal Republic of Nigeria.

 Official Gazette. No. 54 Lagos 7th June, 2011 Vol. 98. Government Notice No.

 140. Retrieved from www.icanig.org/speeches/inventory_images/24.2013.pdf
- Fodio, M. I., Ibikunle, J., & Oba, V. C. (2013). Corporate governance mechanisms and reported earnings quality in listed Nigerian insurance firms. *International Journal of Finance and Accounting*, 2(5), 279-286.
- Fowler Jr, F. J. (2013). *Survey research methods*. (5th ed.). New Delhi, Sage Publication.
- Fraser, M. W., & Galinsky, M. J. (2010). Steps in intervention research: Designing and Developing Social Programs. *Research on Social Work Practice*, 2010.

 Available online at http://rsw.sagepub.com/content/20/5/459. Retrieved July 13, 2014
- Fraser, I., & Henry, W. (2007). Embedding risk management: structures and approaches. *Managerial Auditing Journal*, 22(4), 392-409.
- Fraser, J., & Simkins, B. (Eds.). (2009). Enterprise risk management: Today's leading research and best practices for tomorrow's executives (Vol. 3). John Wiley & Sons.
- Gates, S., Nicolas, J. L., & Walker, P. L. (2012). Enterprise risk management: A process for enhanced management and improved performance. *Management Accounting Quarterly*, 13(3), 28-38.
- Gatzert, N., & Martin, M. (2015). Determinants and value of enterprise risk management: Empirical evidence from the literature. *Risk Management and Insurance Review*, 18(1), 29-53.

- Gay, L.R., & Diehl, P.L. (1992). Research methods for businesses and management, New York, Macmillan.
- Getie Mihret, D., & Wondim Yismaw, A. (2007). Internal audit effectiveness: An Ethiopian public sector case study. *Managerial Auditing Journal*, 22(5), 470-484.
- Ghazali, Z., & Manab, N. A. (2013). Enterprise risk management and value creation:

 Initial findings amongst non-financial public listed companies in Malaysian

 Bourse. *Asian Economic and Financial Review*, 3(7), 913-922.
- Gibbs, T. E., & Schroeder, R. G. (1979). Evaluating the competence of internal audit departments. In *Symposium on Auditing Research III* (pp. 207-225). Dept. of Accountancy, University of Illinois Urbana, Ill. USA.
- Gilson, R. J., & Kraakman, R. (1991). Reinventing the outside director: An agenda for institutional investors. *Stanford Law Review*, 43(4)863-906.
- Gliner, J. A., Morgan, G. A., & Leech, N. L. (2011). Research methods in applied settings: An integrated approach to design and analysis. London, Routledge.
- Global Entertainment and Media Outlook: 2008-2012: Forecasts and economic analyses of 14 industry segments: Executive Summary, PricewaterhouseCoopers, 2008.
- Golshan, N. M., & Rasid, S. Z. A. (2012). Determinants of enterprise risk management adoption: An empirical analysis of Malaysian public listed firms. In Proceedings of World Academy of Science, *Engineering and Technology (*No. 62). World Academy of Science, Engineering and Technology.
- Golshan, N. M., & Rasid, S. Z. A. (2012). What leads firms to enterprise risk management adoption? A literature review. *International Proceedings of Economics Development & Research*, 29(2), 276-280.

- Goodstein, J., Gautam, K., & Boeker, W. (1994). The effects of board size and diversity on strategic change. *Strategic Management Journal*, 15(3), 241-250.
- Goodwin-Stewart, J., & Kent, P. (2006). The use of internal audit by Australian companies. *Managerial Auditing Journal*, 21(1), 81-101.
- Gordon, L. A., Loeb, M. P., & Tseng, C. Y. (2009). Enterprise risk management and firm performance: A contingency perspective. *Journal of Accounting and Public Policy*, 28(4),301-327.
- Goswami, O. (2002). Corporate Governance in India, Taking Action Against Corruption in Asia and the Pacific (Manila: Asian Development Bank), PHI Learning Pvt. Ltd, India..
- Grace, M. F., Leverty, J. T., Phillips, R. D., & Shimpi, P. (2015). The value of investing in enterprise risk management. *Journal of Risk and Insurance*, 82(2), 289-316.
- Griffith-Jones, S., & Gottschalk, R. (2006). Costs of currency crises and benefits of international financial reform. Currently available from www.stephanygj.com

 Retrieved February 22nd, 2009.
- Groves, R. M. (2006). Non-response rates and nonresponse bias in household surveys. *Public Opinion Quarterly*, 70(5), 646-675.
- Gujarati, D. N. (2004). Basic econometrics. (4th ed.). The Mc Graw Hill companies.
- Gunningham, N., & Kagan, R. A. (2005). Regulation and business behavior*. *Law & Policy*, 27(2), 213-218.
- Gupta, S., Lehmann, D. R., & Stuart, J. A. (2004). Valuing customers. *Journal of Marketing Research*, 41(1), 7-18.

- Gupta, P. P., & Thomson, J. C. (2006). Use of COSO 1992 in management reporting on internal control-A new IMA (R) research study focuses on the current usage, role, and extent of guidance the COSO 1992 Framework provides in helping. *Strategic Finance*, 88(3), 26-33.
- Guthrie, K., Sokolowsky, J., & WAN, K. M. (2012). CEO compensation and board structure revisited. *The Journal of Finance*, 67(3), 1149-1168.
- Hair, J. F., Black, W. C., Babin, B. J., Anderson, R. E., & Tatham, R. L. (2006).Multivariate data analysis (Vol. 6). Upper Saddle River, NJ: Pearson Prentice Hall, USA.
- Hair, J. F. (2010). *Multivariate data analysis. A Global Perspective*. (7th ed.). Upper Saddle River: Prentice Hall. New Jersey, USA.
- Hair, J. F., Ringle, C. M., & Sarstedt, M. (2011). PLS-SEM: Indeed a silver bullet.

 Journal of Marketing Theory and Practice, 19(2), 139-152.
- Hair, J. F., Black, W.C., Money, A. H., Samuel, P.,& Page, M. (2007). Research methods for business. England. John Wiley & Sons Limited.
- Hair Jr, J. F., Wolfinbarger, M., Money, A. H., Samouel, P., & Page, M. J. (2015). Essentials of business research methods. Routledge.
- Hair, J. F., Black, W. C., Babin, B. J., & Anderson, R. E. (2013). *Multivariate data analysis:* Pearson New International Edition. Pearson Higher Ed.
- Haniffa, R., & Hudaib, M. (2006). Corporate governance structure and performance of Malaysian listed companies. *Journal of Business Finance & Accounting*, 33(7-8), 1034-1062.
- Hanim Fadzil, F., Haron, H., & Jantan, M. (2005). Internal auditing practices and internal control system. *Managerial Auditing Journal*, 20(8), 844-866.

- Harrell, F. E. (2013). Regression modeling strategies: with applications to linear models, logistic regression, and survival analysis. USA, Springer Science & Business Media.
- Hassan Al-Tamimi, H. A., & Mohammed Al-Mazrooei, F. (2007). Banks' risk management: a comparison study of UAE national and foreign banks. *The Journal of Risk Finance*, 8(4), 394-409.
- Hassan, S. U., & Ahmed, A. (2012). Corporate governance, earnings management and financial performance: A case of Nigerian manufacturing firms. *American International Journal of Contemporary Research*, 2(7), 214-226.
- Hertzog, M. A. (2008). Considerations in determining sample size for pilot studies. *Research in Nursing & Health*, 31(2), 180-191.
- Hillson, D. (2002). Extending the risk process to manage opportunities. *International Journal of Project Management*, 20(3), 235–240.
- Hillson, D., & Murray-Webster, R. (2004). Understanding and managing risk attitude.

 In *Proceedings of 7th Annual Risk Conference* (pp.1-11), *London*, *UK*.
- Hines, C. S., & Peters, G. F. (2015). Voluntary risk management committee formation: Determinants and short-term outcomes. *Journal of Accounting and Public Policy*, 34(3), 267–290.
- Hölmstrom, B. (1979). Moral hazard and observability. *The Bell Journal of Economics*, 10(1), 74-91.
- Hood, J., & Young, P. (2005). Risk financing in UK local authorities: Is there a case for risk pooling?. *International Journal of Public Sector Management*, 18(6), 563-578.
- Hosmer Jr, D. W., Lemeshow, S., & Sturdivant, R. X. (2013). *Applied logistic regression* (Vol. 398). John Wiley & Sons.

- Hosmer Jr, D. W., & Lemeshow, S. (2000). *Applied logistic regression*. John Wiley & Sons.
- Hosmer, D. W., & Lemeshow, S. (2000). Introduction to the logistic regression model. Applied Logistic Regression, (2n ed.). John Wiley & Sons.
- Hovey, J. (2000). Risky business. Retrieved from http://www.industryweek.com 2007.
- Hoyt, R. E., & Liebenberg, A. P. (2006). Determinants of risk management adoption among the insurance companies. *Journal of Business Social Science*, 128(4), 213-230.
- Hoyt, R. E., & Liebenberg, A. P. (2008). The value of enterprise risk management: Evidence from the US insurance industry. In unpublished paper, accessed at: http://www.aria.org/meetings/2006papers/Hoyt_Liebenberg_ERM_070606. pdf Retrieved Semtember 7, 2010..
- Hoyt, R. E., & Liebenberg, A. P. (2011). The value of enterprise risk management. *Journal of Risk and Insurance*, 78(4), 795-822.
- Huber, C., & Scheytt, T. (2013). The disposition of risk management: Reconstructing risk management after the financial crisis. *Management Accounting Research*, 24(2), 88-99.
- Hudin, N. S., & Hamid, A. B. A. (2014). Drivers to the implementation of risk management practices: A conceptual framework. *Journal of Advanced Management Science*, 2(3), 163-169.
- Huselid, M. A. (1995). The impact of human resource management practices on turnover, productivity, and corporate financial performance. *Academy of Management Journal*, 38(3),635-672.

- Ikhide, S. I., & Alawode, A. A. (2001). Financial sector reforms, macroeconomic instability and the order of economic liberalization: The evidence from Nigeria: African Economic Research Consortium (2001). (AERC Research Paper). Available at URL: http://www.aercafrica.org/documents/RP112.pdf.Retrieved from Jan 4, 2015.
- International Monetary Fund (2013, November 7-8). Policy responses to crises, seminar at the 14th Jacques Polak *Annual Research Conference*. Retrieved from https://www.imf.org/.../seminars/.../forbes.www.imf.org/external/np/res/seminar, *July 6th*, 2013.
- Intakhan, P., & Ussahawanitchakit, P. (2010). Roles of audit experience and ethical reasoning in audit professionalism and audit effectiveness through a moderator of stakeholder pressure: An empirical study of tax auditors in Thailand. *Journal of Academy of Business and Economics*, 10(5), 1-14.
- International Accounting Standards Board. (2006). International Financial Reporting

 Standards (IFRS's): Including International Accounting Standards (IAS's) and

 Interpretations as at 2011 International Accounting Standards Board.
- Institute of Internal Auditors (IIA). (2004). Internal auditing's role in sections 302 and 404 of the US Sarbanes-Oxley Act of 2002.
- Institute of Internal Auditors (IIA). (2007). International standards for the professional practice of internal auditing.
- Institute of Internal Auditors (IIA). (2009). Internal auditor competency framework.

 IIA, 2010 Standards update: International professional practices framework
- Ismail, T. H. (2012). Internal auditors' perception about their role in risk management audit in Egyptian banking sector. International *Journal of Economics and Accounting*, 3(2), 196-220.

- Ittner, C. D., & Keusch, T. (2015). The Influence of Board of Directors' Risk Oversight on Risk Management Maturity and Firm Risk-Taking (March 12, 2015). AAA Management Accounting Section (MAS) Meeting. Available athttps://papers.ssrn.com/sol3/Delivery.cfm?abstractid=2482791/21/2016.
- Jaccard, J. (2001). *Interaction effects in logistic regression* (Vol. 135). Sage Publishing.
- Jalal-Karim, A. (2013). Leveraging enterprise risk management (ERM) for boosting competitive business advantages in Bahrain. *World Journal of Entrepreneurship, Management and Sustainable Development*, 9(1), 65-75.
- Jensen, M. C. (1993). The modern industrial revolution, exit, and the failure of internal control systems. *The Journal of Finance*, 48(3), 831-880.
- Jensen, M. C., & Meckling, W. H. (1976). Theory of the firm: Managerial behavior, agency costs and ownership structure. *Journal of Financial Economics*, 3(4), 305-360.
- Jensen, M. C., & Ruback, R. S. (1983). The market for corporate control: The scientific evidence. *Journal of Financial Economics*, 11(1), 5-50.
- Joppe, M. (2000). The research process. http://www.nova.edu/sss/QR/QR8; *Retrieved, February*, 25, 2008.
- Kaiser, H. F. (1974). An index of factorial simplicity. *Psychometrika*, 39(1), 31-36.
- Karagiorgos, T., Drogalas, G., & Giovanis, N. (2011). Evaluation of the effectiveness of internal audit in Greek Hotel Business. *International Journal of Economic Sciences and Applied Research*, 4(1), 19-34.
- Kaur, M., & Kapoor, S. (2011). Basel II in India: Compliance and challenges: Management and Labour Studies, 36(4), 299-318.

- Kawamoto, B. (2001). Issues in enterprise risk management: From theory to application. In *Casualty Actuarial Society Spring Meeting*.
- Kleffner, A. E., Lee, R. B., & McGannon, B. (2003a). The effect of corporate governance on the use of enterprise risk management: Evidence from Canada. *Risk Management and Insurance Review*, 6(1), 53-73.
- Kleffner, A. E., Lee, R., & McGannon, B. (2003b). Stronger corporate governance and its implications on risk management. *Ivey Business Journal*, 67(5), 4-13.
- Kolapo, T. F., Ayeni, R. K., & Oke, M. O. (2012). Credit risk and commercial banks' performance in Nigeria: A panel model approach. *Australian Journal of Business and Management Research*, 2(2), 31-38.
- Knight, K. W. (2006). Chairman ISO TMB working group on risk management member Standards Joint Technical Committee OB/7–Risk management.
- KPMG (2002). Corporate governance in Europe: Survey 2001/2002. Washington DC. KPMG.
- KPMG, T. (2008). KPMG international survey of corporate responsibility reporting 2008. KPMG, Amsterdam, the Netherlands.
- KPMG Global Survey, (2012). Nigeria, the most fraudulent in Africa, KPMG.
- Krejcie, R. V., & D.W. Morgan. (1970). Determining sample size for research activities. *Educational and Psychological Measurement*, 30 (1970), 607–610.
- Kura, K. M., Shamsudin, F. M., & Chauhan, A. (2013). Self-regulatory efficacy as potential moderator on the relationship between organisational formal controls, perceived group norms and workplace deviance: A proposed framework. *Sains Humanika*, 64(2), 33-38.

- Kuritzkes, A., Schuermann, T., & Weiner, S. M. (2003). Risk measurement, risk management, and capital adequacy in financial conglomerates. Presented at the Netherlands-United States Roundtable on Financial Conglomerates. October 23-25, 2002, (pp. 141-193), Washington D.C. *Brookings-Wharton Papers on Financial Services*.
- Kutum, I. (2015). Board Characteristics and Firm Performance: Evidence from Palestine. European Journal of Accounting Auditing and Finance Research, 3(3), 32-47.
- Lam, J (2003). Enterprise risk management—from incentives to controls. London: John Wiley.
- Lam, J. (2014). Enterprise risk management: from incentives to controls. London. John Wiley & Sons.
- Lasfer, M. A. (2006). The interrelationship between managerial ownership and board structure. *Journal of Business Finance & Accounting*, 33(7-8), 1006-1033.
- Lee, J. N., & Kim, Y. G. (1999). Effect of partnership quality on IS outsourcing success: conceptual framework and empirical validation. *Journal of Management Information Systems*, 15(4), 29-61.
- Leech N. L., Barrett K. C., & Morgan G. A. (2015). IBM SPSS for intermediate statistics use and interpretation (5th ed.). New York, NY: Routledge.
- Leitch, M. (2010). ISO 31000: (2009). The new international standard on risk management. *Risk Analysis*, 30(6), 887-892.
- Levine, R. (1997). Financial development and economic growth: views and agenda. *Journal of Economic Literature*, 35(2), 688-726.

- Li, B. (2012). Moderating effects of board and managerial incentive on the relationship between R & D investment and firm performance-evidence from listed manufacturing firms in China. *Journal of International Management Studies*, 7(1), 41-55.
- Liao, H. H., Chen, T. K., Lu, C. W., & Kuo, W. L. (2008, November). Agency Issues in Structural Credit Models-Evidences from Bank Industry (November 6, 2007).
 In Second Singapore International Conference on Finance, 2008. Available at SRRN:https://ssrn.com/abstract=1089752orhttp://dx.doi.org/10.2139/ssrn.10897
 52. Retrieved, September 6, 2014.
- Liebenberg, A. P., & Hoyt, R. E. (2003). The determinants of enterprise risk management: Evidence from the appointment of chief risk officers. *Risk Management and Insurance Review*, 6(1), 37-52.
- Limpaphayom, J., & Connelly, P. (2006). Board characteristics and firm performance: evidence from the life insurance industry in Thailand. *Journal of Economics*, 16(2), 101-124.
- Litwin, M. S. (1995). *How to measure survey reliability and validity* (Vol. 7). Sage Publications.
- Lottes, I. L., DeMaris, A., & Adler, M. A. (1996). Using and interpreting logistic regression: A guide for teachers and students. *Teaching Sociology*, 24(3), 284-298.
- Lucia, A. D., & Lepsinger, R. (1999). Art & Science of Competency Models. San Francisco, CA: Jossey-Bass. USA.
- Maani, K., & Cavana, R. Y. (2000). Systems thinking and modelling: Understanding change and complexity. Great Britain, CRC Press.

- Malhotra, N. K. (2008). *Marketing research: An applied orientation*, (5th Ed.), Pearson Education, India.
- Manab, N. A., Kassim, I., & Hussin, M. R. (2010). Enterprise-wide risk management (EWRM) practices: between corporate governance compliance and value. *International Review of Business Research Papers*, 6(2), 239-252.
- Manab, N., Othman, S., & Kassim, I. (2012b). Enterprise-wide risk management best practices: The critical success factors. *International Journal of Sustainable Development*, 4(3), 87-96.
- Manab, N. A., & Kassim, I. (2012a). A moderating effect of leadership on a success of enterprise—wide risk management practices. *In Proceedings of the 3rd International conference on Business and Economic Research (3rd ICBER 2012) Conference, Bandung, Indonesia.*
- Matsumura, E. M., & Tucker, R. R. (1992). Fraud detection: A theoretical foundation. *Accounting Review*, 67 (4), 753–782.
- Mayers, D., & Smith, C. W. (1987). Corporate insurance and the underinvestment problem. *Journal of Risk and Insurance*, *54*(1), 45-54.
- Mehran, H., Morrison, A., & Shapiro, J. (2011). Bankcorporate governance and banks: What have we learned from the financial crisis? Hamid Mehran; Alan Morrison; Joel Shapiro (No. 502). Staff Report, Federal Reserve of New York.
- Menard, S. (2002). Applied logistic regression analysis (Vol. 106)., London, Sage.
- Menard, S. (2000). Coefficients of determination for multiple logistic regression analysis. *The American Statistician*, 54(1), 17-24.
- Messier, W. F., & Schneider, A. (1988). A hierarchical approach to the external auditor's evaluation of the internal auditing function. *Contemporary Accounting Research*, 4(2), 337-353.

- Meulbroek, L. K. (2002). Integrated risk management for the firm: A Senior manager's guide. *Journal of Applied Corporate Finance*, 14(4), 55–70.
- Meyer, J. W., & Rowan, B. (1977). Institutionalized organizations: Formal structure as myth and ceremony. *American Journal of Sociology*, 83(2), 340-363.
- Miccolis, J. A., Hively, K., & Merkley, B. W. (2001). *Enterprise risk management:*Trends and emerging practices (1-179), Institute of Internal Auditors Research

 Foundation. Available online at org/bookstore/media/pdf/433-TOC.pdf. Retrieved at April 7, 2015.
- Middle Africa Insight Series/Economics, (2013).
- Mikes, A. (2009). Risk management and calculative cultures. *Management Accounting Research*, 20(1), 18-40.
- Moeller, R. R. (2007). COSO enterprise risk management: understanding the new integrated ERM framework. John Wiley & Sons.
- Nakpodia, E. D., Ayo, B. T., & Adomi, E. E. (2007). A better response rate for questionnaires: Attitudes of librarians in Nigerian University Libraries. *Library Philosophy and Practice*, 9(2), 50-56.
- Nelson, N.L., Kleffner, A.E., & Lee, R.B. (2005). The evolution of the role of risk communication in effective risk management. *Risk management and Insurance Review*, 8(2), 279-289.
- New Basel Capital Accord (2001). Consultative document. Basel Committee on banking supervision Nigeria Deposit Insurance Corporation Act (2006).
- Ng, T. H., Chong, L. L., & Ismail, H. (2012). Is the risk management committee only a procedural compliance? An insight into managing risk taking among insurance companies in Malaysia. *The Journal of Risk Finance*, *14*(1), 71-86.

- Niemi, L. (2005). Audit effort and fees under concentrated client ownership: Evidence from four international audit firms. *The International Journal of Accounting*, 40(4), 303-323.
- Njogo, B. O. (2012). Risk management in the Nigerian banking industry. *Kuwait Chapter of Arabian Journal of Business and Management Review*, *I*(10), 100-109.
- Nkiru, O. (2011). CSR e-bulletin October 2011 Financial Reporting Council of Nigeria Act., 2011.
- Nocco, B. W., & Stulz, R. M. (2006). Enterprise risk management: Theory and practice. *Journal of Applied Corporate Finance*, 18(4), 8-20.
- Ntakhan, P., & Ussahawanitchakit, P. (2010). Roles of audit experience and ethical reasoning in audit professionalism and audit effectiveness through a moderator of stakeholder pressure: An empirical study of tax auditors in Thailand. *Journal of Academy of Business and Economics*, 10(5), 1-14.
- Oba, V. C., & Fodio, M. I. (2013). Boards' gender mix as a predictor of financial performance in Nigeria: an empirical study. *International Journal of Economics and Finance*, 5(2), 170-178.
- O'Connell, A. A. (2006). Logistic regression models for ordinal response variables (No. 146). Sage Publication.
- Odonkor, T. A., Osei, K. A., Abor, J., & Adjasi, C. K. (2011). Bank risk and performance in Ghana. *International Journal of Financial Services Management*, 5(2), 107-120.
- O'Donnell, E. (2005). Enterprise risk management: A systems-thinking framework for the event identification phase. *International Journal of Accounting Information Systems*, 6(3), 177-195.

- Ofo, N.,(2006). Code of corporate governance for banks in Nigeria post-consolidation (2006): Revision Required (January 30, 2011). Available at SSRN: http://ssrn.com/abstract=1751460. Retrieved at February18, 2015.
- Ogbonnaya, U. I., & Osiki, J. O. (2007). The impact of teacher qualification and subject major in the teaching of mathematics in Lesotho. *African Journal of Cross-cultural Psychology and Sport Facilitation*, 9(1), 37-48.
- Oh, S. K., Park, K. J., & Pedrycz, W. (2006). Design methodologies of fuzzy set-based fuzzy model based on gas and information granulation. In *AI 2006:**Advances in Artificial Intelligence (pp. 100-109). Springer Berlin Heidelberg.
- Ojeka, S. A., & Ikpefan, O. A. (2012). Electronic commerce, automation and online banking in Nigeria: Challenges and benefits. *International Journal of Innovation in the Digital Economy (IJIDE)*, 3(1), 11-26.
- Okioga, C. K. (2013). The upshot of financial Sector regulation on the financial market performance in Kenya Perspectives from Kisii County, Kenya. Business Management Dynamics, 2(9), 1-14.
- Olujide J. O., &Badmus A. L. (1998). An empirical study of job satisfaction levels among bank managers in Nigeria. *Ilorin Journal of Business and Social Sciences*, 5(2), 46-57.
- Önder, Ş., & Ergin, H. (2012). Determiners of enterprise risk management applications in Turkey: An empirical study with logistic regression model on the companies included in ISE (Istanbul Stock Exchange). *Business and Economic Horizons*, 7(1), 19-26.
- Onaolapo, A. A. (2008). Implications of capital regulation on bank financial health and Nigerian economic growth 1990-2006. *Journal of Economic Theory*, 2(5), 70-82.

- Oppenheim, A. N. (2000). *Questionnaire design, interviewing and attitude measurement*. Bloomsbury Publishing, Uk.
- Ordelheide, D. KPMG. (2001). Transnational accounting (TRANSACC).
- Oscar n. Onyema (2012). The Nigerian stock exchange market review 20112 & 2012 Outlook Presented by CEO, the Nigerian stock exchange 23 January, 2012.
- Osuagwu, D. E. (2001). New technologies and services in internet business. *Journal of Professional Administration*, 2(1), 182-193.
- Ovidiu-Constantin, B., Alin-Constantin, D., & Madalina, D. R. (2010). Risk management importance and role in audit. *Annals of Faculty of Economics*, *1*(1), 484-489.
- Owojori, A. A., Akintoye, I. R., & Adidu, F. A. (2011). The challenge of risk management in Nigerian banks in the post consolidation era. *Journal of Accounting and Taxation*, 3(2), 23-31.
- Paape, L., & Speklè, R. F. (2011). The adoption and design of enterprise risk management practices: An empirical study. *European Accounting Review*, 21(3), 533-564.
- Pagach, D., & Warr, R. (2007). An empirical investigation of the characteristics of firms hiring chief risk officers. Working paper, North Carolina State University, USA.
- Pagach, D., & Warr, R. (2011). The characteristics of firms that hire chief risk officers. Journal of Risk and Insurance, 78(1), 185-211.
- Pallant, J. (2013). SPSS survival manual. McGraw-Hill Education (USA).
- Pallant, J. (2007). SPSS Survival Manual. (4th ed.): A step by step guide to data analysis using SPSS version 18. Maidenhead, Berkshire: Open University Press.

 Retrieved on November 5th, 2011 from http://www.allenandunwin.com/spss.

- Pallant, J. (2010). SPSS Survival Manual: A step by step guide to data analysis using SPSS (4th ed.). McGraw Hill, USA.
- Pampel, F. C. (2000). Logistic regression: A primer (quantitative applications in the social sciences). Logistic Regression: *Primer London, UK: Sage Publications*.
- Pathan, S. (2009). Strong boards, CEO power and bank risk-taking. *Journal of Banking & Finance*, 33(7), 1340-1350.
- Pearl, D. K., & Fairley, D. (1985). Testing for the potential for nonresponse bias in sample surveys. *Public Opinion Quarterly*, 49(4), 553-560.
- Peng, D. X., & Lai, F. (2012). Using partial least squares in operations management research: A practical guideline and summary of past research. *Journal of Operations Management*, 30(6), 467-480.
- Perrin, T. T. (2002). Enterprise risk management in the insurance industry-2002 benchmarking survey report. World Wide Web: http://www.tillinghast.com/tillinghast/publications/reports/ERM_Insur_Ind_2002_benchmark_survey/ERM_2002_all. pdf. Retrieved May 1, 2007.
- Pierce, B., & Sweeney, B. (2005). Management control in audit firms—Partners' perspectives. *Management Accounting Research*, 16(3), 340-370.
- Popoola, O. M. J., Ahmad, A. C., & Samsudin, R. S. (2014). Forensic accounting knowledge and mindset on task performance fraud risk assessment. *International Journal of Business and Management*, 9(9), 118-134.
- Power, M. (2009). The risk management of nothing. *Accounting, Organizations and Society*, 34(6), 849-855.
- Pound, P., Gompertz, P., & Ebrahim, S. (1993). Development and results of a questionnaire to measure carer satisfaction after stroke. *Journal of Epidemiology* and Community Health, 47(6), 500-505.

- Prowse, S. (1997). Corporate control in commercial banks. *Journal of Financial Research*, 20(4), 509-527.
- Pricewaterhouse. (2004). A practical guide to risk assessment, 2004. How principles-based risk assessment enables organizations to take the right risks, PWC.
- Rahman, R. A., Noor, S. B., & Ismail, T. H. (2013). Governance and risk management: Empirical evidence from Malaysia and *Egypt. International Journal of Finance & Banking Studies* (ISSN: 2147-4486), 2(3), 21-33.
- Rasid, S. Z. A., Golshan, N. M., Ismail, W. K. W., & Ahmad, F. S. (2012). Risk Management, performance measurement and organizational performance: A conceptual framework. In 3rd International Conference on Business and Economic Research (3rd ICBER 2012) Proceeding 12 13 March 2012, Bandung, Indonesia.
- Rawashdeh A. M., (2014). Empirical study in Jordanian banking sector. European Scientific Journal, *10*(22), 1857-1881.
- Razali, A. R., & Tahir, I. M. (2011). Review of the literature on enterprise risk management. *Business Management Dynamics*, 1(5), 8-16.
- Razali, A. R., Yazid, A. S., & Tahir, I. M. (2011). The determinants of enterprise risk management (ERM) practices in Malaysian public listed companies. *Journal of Social and Development Sciences*, *I*(5), 202-207.
- Renn, O. (1998). Three decades of risk research: accomplishments and new challenges. *Journal of Risk Research*, *I*(1), 49-71.
- Renn, O., & Walker, K. D., (2008). Global Risk Governance: Concept and Practice

 Using the IRGC Framework. International Risk Governance Council (IRGC),

 Springer. Available at www.springer.com/gp/book/9781402067983. Retrieved August 11, 2015.

- Richardson, S., Guru, K. B., Yu, M. C., Wei, K. K., & Pointon, L. (2005). How to research: A guide for undergraduate & graduate students (pp 40-41). Thomson Learning-Division of Thomson Asia Pte Ltd., Malaysia.
- Rodriguez, D., Patel, R., Bright, A., Gregory, D., & Gowing, M. K. (2002).

 Developing competency models to promote integrated human resource practices. *Human Resource Management*, 41(3), 309-324.
- Roscoe, J. T. (1975). Fundamental research statistics for the behavioral sciences [by]

 John T. Roscoe. Holt, Rinehart and Winston, New York, USA.
- Rose, C. (2007). Does female board representation influence firm performance? The Danish evidence. *Corporate Governance: An International Review*, 15(2), 404-413.
- Roslan, A., & Dahan, H. M. (2013). Mediating effect of enterprise risk management practices on risk culture and organizational performance. In *The International Conference on Social Science Research (ICSSR 2013), Penang, Malaysia*.
- Sabato, G. (2010). Financial crisis: where did risk management fail? *International Review of Applied Financial Issues and Economics*, 2(2), 315-327.
- Sadgrove, M. K. (2015). *The complete guide to business risk management*. Ashgate Publishing, Ltd.
- Saeidi, P., Sofian, S., Rasid, A., Zaleha, S., & Saeid, S. P. (2012). The role of chief risk officer in adoption and implementation of enterprise risk management-a literature review. *International Research Journal of Finance and Economics*, 2(88), 118-123.
- Safieddine, A. (2009). Islamic financial institutions and corporate governance: new insights for agency theory. *Corporate Governance An International Review*, 17(2), 142-158.

- Saidenberg, M., & Schuermann, T. (2003). The new Basel capital accord and questions for research. (Volumes 3-14 of Working paper series) Wharton School, University of Pennsylvania, USA.
- Saidu, S. (2007). Classroom management for effective teaching and learning in Nigeria. *Journal of Educational Research*, 2(9), 122-136.
- Saleh, N. M., Iskandar, T. M., & Rahmat, M. M. (2005). Earnings management and board characteristics: Evidence from Malaysia. *Journal Pengurusan*, 24(4), 77-103.
- Sanusi, L. S. (2010). The Nigerian Banking Industry: what went wrong and the way forward. Delivered at Annual Convocation Ceremony of Bayero University, Kano held on Friday 26 February, 2010 to mark the Annual Convocation Ceremony of the University. *Central Bank of Nigeria Publications*, 3(1), 1-23
- Sanusi, L.S (2010). The Nigerian banking industry in the aftermath of the recent global financial crisis. Dinner Speech Delivered at The Chartered Institute of Bankers of Nigeria (CIBN) 44th Annual Bankers' Dinner, held at the Expo Centre Eko Hotel and Suites, Victoria Island, Lagos 5 November, 2010.
- Sanusi, S. L.(2010), Global financial meltdown and the reforms in the Nigerian banking sector. Being the full text of a public lecture delivered at the Convocation Square, Abubakar Tafawa Balewa University, Bauchi.
- Sanusi, L. S. (2012). Banking reform and its impact on the Nigerian economy. CBN Journal of Applied Statistics, 2(2), 115-122.

- Sanusi, L. S. (2011, March). Banks in Nigeria and national economic development: A critical review. Being a keynote address at the seminar on "Becoming an economic driver while applying banking regulations", organized by the Canadian High Commission in Joint Collaboration with the Chartered Institute of Bankers of Nigeria (CIBN) and the Royal Bank of Canada (RBC).
- Sarens, G. (2009). Internal auditing research: where are we going? *Editorial International Journal of Auditing*, 13(1), 1-7.
- Sarens, G., & De Beelde, I. (2006). Internal audit: the expert in providing comfort to the audit committee. The case of risk management and internal control (No. 06/428). Ghent University, Faculty of Economics and Business Administration.
- Sarens, G., & De Beelde, I. (2006). Internal auditors' perception about their role in risk management: a comparison between US and Belgian companies. *Managerial Auditing Journal*, 21(1), 63-80.
- Sarens, G., de Visscher, C., & van Gils, D. (2010). Risk management and internal control in the public sector: An in-depth analysis of Belgian social security public institutions. Bulletin de documentation/Service Public Fédéral Finances, 70(3), 65-90.
- Schanfield, A., & Helming, D. (2012). Top ERM implementation challenges. *Internal Auditor*, 65(6), 41-44.
- Schneider, A. (1985). The reliance of external auditors on the internal audit function. *Journal of Accounting Research*, 23(2), 911-919.
- Schneier, R., & Miccolis, J. (1998). Risk enterprise management. *Strategy & Leadership*, 26(2), 10-16.

- Shortreed, J., Fraser, J., & Purdy, G. (2011). The Future Role of Internal Audit in (Enterprise) Risk Management. Institute of Internal Auditors Research Foundation's (IIARF's).
- Schwarz, N., & Sudman, S. (2012). Context effects in social and psychological research. Springer Science & Business Media. USA.
- Scott, W. R. (1987). The adolescence of institutional theory. *Administrative Science Quarterly*, 32(4), 493-511.
- SEC Code of corporate governance (2011). Nigerian code of corporate governance and international best practice. Published by the Nigerian Security and Exchange Commission in 2011.
- Sekaran, U., Robert, Y. C., & Brain, L. D. (2001). *Applied business research*. John Wiley and Sons, Australian Ltd.
- Sekaran, U. (2006). Research methods for business: A skill building approach. John Wiley & Sons.
- Sekaran, U. (2014). Research methods for business: A skill building approach. New York: JohnWiley and Sons.
- Sekaran, U., & Bougie, R. (2010). Research methods for business: A skill building approach. New York: JohnWiley and Sons.
- Sekaran, U. (2000). Research methods for business; a skill business approach. New York: JohnWiley and Sons.
- Selamat, M. H., & Babatunde, D. A. (2014). Mediating effect of information security culture on the relationship between information security activities and organizational performance in the Nigerian banking setting. *International Journal of Business and Management*, 9(7), 33-42.

- Shafique, O., Hussain, N., & Taimoor Hassan, M. (2013). Differences in the risk management practices of Islamic versus conventional financial institutions in Pakistan: An empirical study. *The Journal of Risk Finance*, *14*(2), 179-196.
- Shafiq, A., & Nasr, M. (2010). Risk management practices followed by the commercial banks in Pakistan. *International Review of Business Research Papers*, 6(2), 308-325.
- Shenkir, W. G., & Walker, P. L. (2006). Enterprise risk management: frameworks, Elements, and integration. *Institute of Management Accountant*.
- Sherman, H., & Chaganti, R. (1998). Corporate governance and the timeliness of change: Reorientation in 100 American firms. Greenwood Publishing Group.
- Shleifer, A., & Vishny, R. W. (1997). A survey of corporate governance. *The Journal of Finance*, 52(2), 737-783.
- Shortreed, J. (2010). Enterprise risk management and ISO 31000. *Journal of policy Engagement*, 2(3), 8-10.
- Sikka, P., Filling, S., & Liew, P. (2009). The audit crunch: reforming auditing. *Managerial Auditing Journal*, 24(2), 135-155.
- Singh, K. (2003). The effect of human resources practices on firm performance in India. *Human Resource Development International*, 6(1), 101-116.
- Sironi, A., & Zazzara, C. (2003). The Basel Committee proposals for a new capital accord: implications for Italian banks. *Review of Financial Economics*, *12*(1), 99-126.
- Skipper, H. D., & Kwon, W. (2007). Jean: Risk management and insurance. Perspectives in a Global Economy, Blackwell Publishing Ltd, Oxford, UK.

- Slywotzky, A. J., & Drzik, J. (2005). Countering the biggest risk of all. Harvard Business Review, 83(4), 78-88.
- Smith, M. B. (2008). Reagents for Organic Synthesis: Collective Index for (Vol. 1). John Wiley & Sons.
- Sobel, P. J., & Reding, K. F. (2004). Aligning corporate governance with enterprise risk management. *Management Accounting Quarterly*, 5(2), 29-47.
- Sobel, P. (2011). Internal auditing roles in risk management. *Institute of Internal Audit Research Foundation*, 2(1), 1-18.
- Soh, D. S., & Martinov-Bennie, N. (2011). The internal audit function: Perceptions of internal audit roles, effectiveness and evaluation. *Managerial Auditing Journal*, 26(7), 605-622.
- Soludo, C. C. (2006). Beyond banking sector consolidation in Nigeria. 12th Annual Nigerian Economic Summit, Transcorp Hilton, Abuja.
- Soludo, C. C., & Governor, C. F. R. (2007). Nigerian economy: Can we achieve the vision 2020?. *Governor*, Central Bank of Nigeria 8th January, 2007.
- Solomon, O. (2013). The role of CBN in financial sector development. Retrieved from www.academia.edu., January 27, 2013.
- Soltanizadeh, S., Rasid, S. Z. A., Golshan, N., Quoquab, F., & Basiruddin, R. (2014). Enterprise risk management practices among Malaysian firms. International Conference on Accounting Studies 2014, ICAS 2014, 18-19 August 2014, (pp. 332-337), Kuala Lumpur, Malaysia*Procedia-Social and Behavioral Sciences*.
- Soludo, C. C. (2006). The next stage of reform: Institutionalizing change in Nigeria. Central Bank of Nigeria, Abuja, Nigeria.
- Song, G., & Kemp, S. T. (2013). Does the existence of an enterprise risk management (ERM) program influence the existence of material weaknesses in internal

- control over financial reporting? A Research Fellowship Awarded by GARP (Global Association of Risk Professionals, Pace University, June, 2013.
- Soyemi, K. A., Ogunleye, J. O., & Ashogbon, F. O. (2014). Risk management practices and financial performance: evidence from the Nigerian deposit money banks (DMBs). *The Business & Management Review*, 4(4), 345-359.
- Spencer, L.M., & Spencer, S.M. (1993). *Competence at work: Models for superior performance*. New York: John Wiley and Sons.
- Spira, L. F., & Page, M. (2003). Risk management: the reinvention of internal control and the changing role of internal audit. Accounting *Auditing & Accountability Journal*, 16(4), 640-661.
- Stewart, J., & Subramaniam, N. (2010). Internal audit independence and objectivity: emerging research opportunities. *Managerial Auditing Journal*, 25(4), 328-360.
- Subramaniam, N., McManus, L., & Zhang, J. (2009). Corporate governance, firm characteristics and risk management committee formation in Australian companies. *Managerial Auditing Journal*, 24(4), 316-339.
- Subhani, M. I., & Osman, A. (2011). The essence of enterprise risk management in today's business enterprises in developed and developing nations. *Available at SSRN 1818862*, retrieved November 20, 2014.
- Subramaniam, N., Collier, P., Phang, M., & Burke, G. (2011). The effects of perceived business uncertainty, external consultants and risk management on organisational outcomes. *Journal of Accounting & Organizational Change*, 7(2), 132-157.
- Sullivan, P. H. (2000). Value driven intellectual capital: how to convert intangible corporate assets into market value. (1 edition), John Wiley & Sons, Inc. New York, USA..

- Tabachnick, B. G., & Fidel L.S. (2007). *Using multivariate statistics* (5th ed.). Boston: Pearson Education Inc. USA.
- Tahir, I. M., & Razali, A. R. (2011). The Relationship between enterprise risk management (ERM) and firm value: Evidence from Malaysian public listed companies. *International Journal of Economics and Management Sciences*, 1(2), 32-41.
- Tandelilin, E., Kaaro, H., & Mahadwartha, P. A. (2007). Corporate governance, risk management, and bank performance: does type of ownership matter? *EADN* individual research grant project.
- Tanur, J. M. (1982). Advances in methods for large-scale surveys and experiments. R. McC. Adams, N. Smelser, and D. Treiman, editors, *Behavioral and Social Science Research:* A National Resource, National Academy Press, Washington, DC.
- Tekathen, M., & Dechow, N. (2013). Enterprise risk management and continuous realignment in the pursuit of accountability: A German case. *Management Accounting Research*, 24(2), 100-121.
- The Africa Competitiveness Report (2013). Insight report. World Economic Forum
- Tseng, C. L., & Lin, K. Y. (2007). A framework using two-factor price lattices for generation asset valuation. *Operations Research*, 55(2), 234-251.
- Uadiale, O. M. (2010). The impact of board structure on corporate financial performance in Nigeria. *International Journal of Business and Management*, 5(10), 155-167.
- Ugwuanyi, U. B., & Ibe, I. G. (2012). Enterprise risk management and performance of Nigeria's brewery industry. *Developing Country Studies*, 2(10), 60-67.

- Ujunwa, A. (2012). Board characteristics and the financial performance of Nigerian quoted firms. *Corporate Governance: The International Journal of Business in Society*, 12(5), 656-674.
- Ulrich, D., Brockbank, W., Johnson, D., & Younger, J. (2009). Human resource competencies: Rising to meet the business challenge. *The RBL White Paper Series. Online: http://c. ymcdn. com/sites/www.hrexecutiveforum.org. Retrieved from June12*, 2014..
- Ussahawanitchakit, P., & Intakhan, P. (2011). Audit professionalism, audit independence and audit effectiveness of CPAS in Thailand. *International Journal of Business Research*, 11(2), 1-11.
- Valsamakis, A. C., Du Toit, G. S., & Vivian, R. W. (1992). *The theory and principles of risk management*. Heinemann. Butterworth Publishers (Pty) Ltd, Cape Town, South Africa.
- Vanguard Newspaper, (2014, February 20).
- Van Teijlingen, E. R., Rennie, A. M., Hundley, V., & Graham, W. (2001). The importance of conducting and reporting pilot studies: the example of the Scottish Births Survey. *Journal of Advanced Nursing*, 34(3), 289-295.
- Waite, B. (2001). Managing risk and resolving crisis. London: Financial Times

 Prentice Hall.
- Walker, Shenkir, Barton (2002) Institute of internal auditors. Enterprise risk management: Pulling it all together. The Institute of Internal Auditors Research Foundation. Altamonte Springs, Florida.
- Walker, P. L., Shenkir, W. G., & Barton, T. L. (2003). ERM in practice. *Internal Auditor*, 60(4), 51-56.
- Wang, S., & Faber, R. (2006). Enterprise risk management for property— Casualty Insurance. Jointly sponsored research project by Casualty Acturial Society, ERM Institute International and Society of Actuaries.

- Watts, R. L., & Zimmerman, J. L. (1986). *Positive Accounting Theory*. Englewood Cliffs, NJ: Prentice-Hall.
- Waweru, N., & Kisaka, E. (2013). The effect of enterprise risk management implementation on the value of companies listed on the Nairobi stock exchange. *Journal of Applied Finance and Banking*, 3(3), 81-105.
- Whitfield, R. N. (2003). *Managing Institutional Risks–A Framework* (Doctoral dissertation, (*Published*, University of Pennsylvania). *Dissertations available from ProQuest*. Papers. Retrieved from March 15, 2015.
- Wong, Y. C., & Bajuri, N. H. (2013). Corporate governance: board structure, information technology and CSR reporting. *Sains Humanika*, 64(2), 109-114.
- Woods, M. (2009). A Contingency Theory perspective on the Risk Management control system within Birmingham City Council. *Management Accounting Research*, 20(1), 69-81.
- Wu, D., & Olson, D. L. (2010). Enterprise risk management: coping with model risk in a large bank. *Journal of the Operational Research Society*, 61(2), 179-190.
- Yaraghi, N., & Langhe, R. G. (2011). Critical success factors for risk management systems. *Journal of Risk Research*, 14(5), 551-581.
- Yatim, P. (2010). Board structures and the establishment of a risk management committee by Malaysian listed firms. *Journal of Management & Governance*, 14(1), 17-36.
- Yauri, N. M., Musa, J., & Kaoje, N. A. (2012). Bank recapitalisation in Nigeria: resuscitating Llquidity or forestalling distress. *International Journal of Business and Social Science*, 10(2) 16-27.
- Yazid, A. S., Hussin, M. R., & Daud, W. N. W. (2012). The influence of chief executive officers' traits on financial risk management perceptions: Evidence from Malaysia. *International Journal of Economics and Finance*, 4(4), 78-85.

- Yazid, A. S., Razali, A. R., & Hussin, M. R. (2012). Determinants of enterprise risk management (ERM): A proposed framework for Malaysian public listed companies. *International Business Research*, 5(1), 80-86.
- Yegon, C. K., Mouni, J. G., & Wanjau, K. (2014). Effects of firm size on enterprise risk management of listed firms in Kenya. *Journal of Business and Management*, 16(5), 86-95.

Yiing, L. H., & Ahmad, K. Z. B. (2009). The moderating effects of organizational culture on the relationships between leadership behaviour and organizational commitment and between organizational commitment and job satisfaction and performance. *Leadership & Organization Development Journal*, 30(1), 53-86.

Zikmund, W. G., Babin, B. J., & Carr, J. C. dan Griffin, M.(2010). *Business Research Methods*. USA, John Wiley & Sons. Saunders M.

Zwaan, L., Stewart, J., & Subramaniam, N. (2011). Internal audit involvement in enterprise risk management. *Managerial Auditing Journal*, 26(7), 586-604.

Appendix 1: Questionnaire



Impact of antecedents on the extent of risk management implementation in Nigerian commercial

banks: A moderating effect of board characteristics

As a result of increased regulatory pressure and the desire to promote good business practices, both internally and externally, there has been a paradigm shift in the risk management practices of the Nigerian banking sector. This research is to find out how the Nigerian banks are implementing enterprise risk management (ERM) in response to these regulatory pressures. The main objective of the study is to examine the impact of antecedents of the extent of ERM implementation in the Nigerian banking sector with a view to promoting good corporate governance and enhance shareholder's value.

Research benefit: The researcher believes that the findings of this survey will be of significant use to the banks and all types of organizations in respect of the management of threats and opportunities.

Confidentiality: All information provided by your bank will be treated with utmost confidence and will only be used for achieving the objectives of the study.

Instruction for completion: Kindly complete the questionnaire attached herewith. It is hope that your response will reflect the actual practice in your bank. It will be appreciated if you could return them immediately after completion.

Thank you in anticipation of your cooperation and understanding. In case of any inquiry, please contact the researcher through the address:

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Part A: Current status of enterprise risk management implementation (ERM) Nigerian commercial banks

The following statements relate to the current practices of enterprise risk management (ERM) in the Nigerian commercial banks. From your experience in the bank, to what extent do you agree or disagree with the statements? Please indicate the extent of your agreement with each statement by circling 1-5, based on the following scale:

"1" = strongly disagree (SD)

"2" = Disagree (D)

"3" = Indifferent (IND)

"4" = Agree (A)
"5" = strongly agree (SA)

Section 1: What are the current focuses of risk management efforts that support ERM implementation in your bank? (Please circle all that apply)

	A # #/	SD	D	IND	A	SA
1	Integration of risk management into day to day operations	1	2	3	4	5
2	Risk management considerations are explicitly factored into decision making	1	2	3	4	5
3	Existence of the rank of chief risk officer (CRO)	1	2	3	4	5
4	ERM integrate risk management with corporate strategic planning	1	2	3	4	5
5	Aligns ERM initiatives to bank objectives and strategies	1	2	3	4	5
6	Putting a system in place to promote risk optimization and opportunities	1	2	3	4	5
7	Integration of ERM across all functions and bank business units	1	2	3	4	5

How did you develop the framework that support ERM implementation in your bank? (Please circle all that apply).

		SD	D	IND	A	SA
8	Continuous improvement on the existing risk management	1	2	3	4	5
	framework					
9	Adoption from Basel 11 Capital Accord	1	2	3	4	5
10	Adopt from the CAN/CSA-Q850-97, RM Guideline for	1	2	3	4	5
	decision makers					
11	Adopt from the COSO, 2004 Enterprise Risk Management	1	2	3	4	5
	Integrated Framework, USA.					
12	Adoption from Nigerian code of corporate governance by	1	2	3	4	5
	SEC and CBN, 2006.					

What are the Motivations for the implementation of ERM in your bank? (Please circle all that apply)

		SD	D	IND	A	SA
13	Compliance with regulatory demands	1	2	3	4	5
14	Mandate from the Board of Directors	1	2	3	4	5
15	Desire to Protect and improve shareholder value	1	2	3	4	5
16	External/Internal auditors' influence	1	2	3	4	5
17	Emerging corporate governance requirements	1	2	3	4	5
18	Emerging best business practices	1	2	3	4	5

What are the areas of risk which present the greatest potential threats and become a priority to your bank? (Please circle all that apply).

	8/	SD	D	IND	A	SA
19	Compliance risk	1	2	3	4	5
20	Credit risk	Univer	sit 2 Ut	ara Mala	nysi4a	5
21	Information security risk	1	2	3	4	5
22	Market risk	1	2	3	4	5
23	Operational risk	1	2	3	4	5
24	Reputational risk	1	2	3	4	5
25	Liquidity risk	1	2	3	4	5

Section 2: Stage of ERM implementation in the bank

The following question relate to the current stage of ERM implementation in the Nigerian commercial banks. From your experience in the bank, Please answer the question by ticking [/] only one item in the appropriate box.

26. What is the current stage of risk management implementation in your bank?

The bank has complete ERM in place	[]
The bank has partial ERM in place	[]

Section 3: Antecedents of risk management implementation in the Nigerian banking sector

The following statements relate to the antecedents of ERM implementation in the Nigerian commercial banks. From your experience in the bank, to what extent do you agree or disagree with the statements? Please indicate the extent of your agreement with each statement by circling 1-5, based on the following scale:

	Internal audit effectiveness that support ERM					
	implementation in the bank (Please circle all that apply)					
		SD	D	IND	A	SA
27	Internal audit Scope of work covers bank capital and liquidity	1	2	3	4	5
	management that support ERM implementation in the bank					
28	internal addit independence and objectivity support Extin	al _l ay	s la	3	4	5
	implementation in the bank					
29	Internal audit educational background is relevant to banking	1	2	3	4	5
	operations which support ERM implementation in the bank					
30	Internal audit have sufficient knowledge of banking operations	1	2	3	4	5
	to support ERM implementation in the bank					
31	Internal auditor knowledge of internal auditing standards	1	2	3	4	5
	support ERM implementation in the bank					
32	Availability of audit manual in the bank support ERM	1	2	3	4	5
32	implementation	1	2	3	7	3
33	Top management implement internal audit recommendation to	1	2	3	4	5
	support ERM implementation in the bank					

Human resource competency that support ERM implementation in the bank (Please circle all that apply)

	implementation in the bank (Please circle all that apply)					
		SD	D	IND	A	SA
34	The bank focuses on education and training to enhance staff capability	1	2	3	4	5
35	The bank provides infrastructure such as equipment and facilities to enhance staff performance	1	2	3	4	5
36	The bank focuses on creating knowledge of risk management through risk awareness culture	1	2	3	4	5
37	The bank applies skills, knowledge and experience to enhance competitive advantage	1	2	3	4	5
38	The bank has devised credible reward system and recognize	_ 1	2	3	4	5
	employees and managers for their high performance and goal					
	achievements to support capacity development					
39	The bank promotes staff proficiency level through	1	2	3	4	5
	professional qualification and certification to support ERM implementation	lalay	sia			
40	The bank provides full time educational studies in risk	1	2	3	4	5
	management to support ERM implementation					
	Regulatory influence that support ERM implementation in the bank (Please circle all that apply)					
		SD	D	IND	A	SA
41	The bank focuses on compliance with Nigerian codes (CBN & SEC) of corporate governance	1	2	3	4	5
42	The bank focuses on consistent compliance with procedures and policies of the bank	1	2	3	4	5

43	The bank focuses on compliance with stock exchange listing requirements	1	2	3	4	5
44	The bank focuses on compliance with government rules and regulations	1	2	3	4	5
45	The bank focuses on compliance with Basel 11 accord principles	1	2	3	4	5
47	The bank focuses on compliance with risk management standards and guidelines	1	2	3	4	5
	Top management commitment that influence ERM					
	implementation in the bank (Please circle all that apply)					
47	Top management assumes the responsibility of initiating and	1	2	3	4	5
40	maintaining ERM goals and cultural awareness		2	2	4	-
48	Top management vision, mission and commitment to ERM implementation is continually communicated to all employees		2	3	4	5
49	Top management is accountable for ERM implementation and	1	2	3	4	5
7)	is involved in reviewing progress report towards ERM	1	2	3	7	3
	processes ersiti Utara N	1alay	sia			
50	Top management develops policies and guidelines for risk	1	2	3	4	5
	management implementation					
51	Top management makes risk management a top priority and	1	2	3	4	5
	spends a significance proportion of time on ERM issues					
52	Necessary policy changes have been made to encourage	1	2	3	4	5
50	employees participation and involvement in ERM process		2	2	4	-
53	Top management have Sufficient Skills, knowledge and	1	2	3	4	5
	experience in ERM process and decision making					
54	Top management Encourages employees competency	1	2	3	4	5
	development by providing needed funds for training and					
	education on the ERM essential technique					
55	Top management is committed to ERM process through the	1	2	3	4	5
	implementation of internal audit recommendation					

30	Top management Promotes ris		2		3	4	3
	opportunities to enhance of						
Sec	tion 3; Board characteristics as a	moderating variable					
	Board characteristics that sup	port ERM implementation					
			SD	D	IND	A	SA
	The larger boards with diverse k	packground have knowledge and are		2	3	A 4	5 5
57	•	e e	1	2	3	4	3
	more experienced to support ERN	we skills and expertise that support	1	2	3	4	5
58		ave—skins and expertise that support	1	2	3	4	3
	ERM implementation		1	2	2	4	5
59	Frequency of board meetings sup	port ERM implementation	1	2	3	4	5
	The of .:.1		1	2	2	1	_
60	•	gement committee support ERM	1	2	3	4	5
	implementation		1	2	2	1	_
	Higher repeated of independ	lant board directors symmet EDM	-	2	3	4	5
61		lent board directors support ERM					
	deployment						
	The heard directors with equity	aymarshin ara mara aommittad ta					
62	ERM implementation	ownership are more committed to					
		board directors support ERM	1	2	3	4	5
63	Greater percentage of women implementation			_	3	4	3
	Implementation	iversiti Utara Mala	lySI	2	3	4	5
64	The directors with related educate	tional background are committed to	1	2	3	4	3
04	ERM implementation						
Par	t B: Section 1: Relate to the pers	onal profile of the respondent and	some ş	gene	ral info	orma	tion
	ut the bank.	ease answer the following questions b	v tioki	na (1) only	one	itam
	ne appropriate box.	ase answer the following questions of	y ticki	ng (/) only	OHE	псш
	What is your age?						
05.		ss than 30 Years			[]		
		- 40 Years - 50Years			[]		
		Years and above					
66.	What is your gender?	Male [] Fem	ale		[]		
67.	Which category of staff do you bel	ong to?					
	To	p level management			[]		

Middle level management	[]
Lower level management	[]
68. Which department/unit do you belong to?	
Risk management department/unit Internal audit/compliance department/unit Others (Please specify)	[] []
69. What is your designation?	
Board Committee Member	[]
Executive Director General Manager Deputy/Assistant General Manager Principal Manager/Senior Manager Manager Others, (Please specify)	[] [] []
70. How many years of experience do you have in risk management?	
1-5 Years 6-10 Years 10 and above	[] []
71. What is your highest educational qualification? Doctoral degree Master degree Bachelor degree or equivalent Diploma or A-level or equivalent GCE or o-level or equivalent	[] [] []
72. Are you a member of any professional accounting/auditing body?	
Yes [] No [] 73. If yes, please tick all that apply	
Association of National Accountants of Nigeria (ANAN) Institute of Chartered Accountants of Nigeria (ICAN)	[]
74. Are you a member of any other professional body apart from ANAN and ICAN?	
Chartered Institute of Management Accountants, Nigeria (CIMA) Association of Chartered Certified Accountants (ACCA) Institute of Internal Auditors (IIA)	[] [] []
Others (Please specify)	
Section 2: General information about the bank	
75. How long has your bank been in existence?	
Less than 5 Years 6 - 10 Years 11 - 15 Years	[] [] []

16 - 20 Years 21 Years and above			[]
76. Is your bank listed on the Nigerian Stock Exchange?			
	Yes	[] No	[]
77. Does your bank have a chief risk officer (CRO)?			
	Yes	[] No	[]
78. Which Audit firm does audit for your bank?			
Big4 None big4			[]
79. What is the total asset of your bank as at 31st December	er, 2012?		
Less than 25 billion Naira []			
25Billion - 50 Billion Naira			[]
51Billion - 75 Billion Naira			[]
76 Billion - 100 Billion Naira			[]
101 Billion Naira and above			[]
80. What is the number of your branches?			
Less than 30 Branches 31 - 60 Branches 61 - 90 Branches 91 - 120 Branches 121 branches and above	tara N	dalaysia [[[[]]]]
Section C: Respondents comments/ suggestions			
Kindly make comments/Suggestions			

Thank you.

APPENDIX 2: QUESTIONNAIRE DEVELOPMENT

Part One:

Part One: Variables	Elements/Items	Items	Source
	Integration of risk management into		
	day to day operations		
	Risk management considerations are		
	explicitly factored into decision		
The current focus of	making		
risk management	Existence of the rank of chief risk		(Colquitt et al., 1999;
efforts in my bank	officer (CRO)		Klefnner et al., 2003;
	ERM integrates risk management		Kassim & Hussin, 2010;
	with corporate strategic planning		Manab & Kassim, 2012;
	Align ERM initiatives to bank	7	Yegon, Mouni &
	objectives and strategies		Wanjau, 2014)
	Put a system in place to promote risk		
	optimization and opportunities		
	Integration of ERM across all		
UTARA	functions and bank business units		
	Creation of risk awareness culture		
)	
	Continuous improvement of the		
BUDI BAN	existing risk management framework	Mala	ysia
	Adoption from Basel 11 Capital		
	Accord		
	Adopt from the CAN/CSA-Q850-97,		
Development of ERM	Risk Management Guideline for		(Fadun, 2013; Manab &
framework in my bank	decision makers	5	Kassim, 2012)
	Adopt from the COSO, 2004		
	Enterprise Risk Management		
	Integrated Framework, USA, 2004		
	Adoption of Nigerian code of		
	corporate governance by SEC and		
	CBN, 2006.		
	Compliance with regulatory		(Beasley et al.,2010;
Motivations for my	demands		Hoyt & Liebenberg,
bank to adopt risk	Mandate from the Board of Directors		2008;
management	Desire to Protect and improve	6	Kleffner et al., 2003)
	shareholder value		
	External/Internal auditors influence		

Investigating to adopt ERM No plan Exist to implement ERM The bank focuses on compliance with Nigerian codes (CBN & SEC) of corporate governance The bank focuses on consistent compliance with the procedures and policies of the bank The bank focuses on compliance with stock exchange listing requirements The bank focuses on compliance with government rules and regulations The bank focuses on compliance with Basel 11 accord The bank focuses on compliance with The bank focuses on compliance with	Variables	Elements/Items	Items	Source
Compliance risk Present the greatest potential threats and become a priority for my bank Complete ERM in Place Partial ERM in Place Planning to implement ERM Investigating to adopt ERM No plan Exist to implement ERM Investigating to adopt ERM No plan Exist to implement ERM Investigating to adopt ERM No plan Exist to implement ERM Investigating to adopt ERM No plan Exist to implement ERM Investigating to adopt ERM No plan Exist to implement ERM Investigating to adopt ERM No plan Exist to implement ERM Investigating to adopt ERM No plan Exist to implement ERM Investigating to adopt ERM No plan Exist to implement ERM Investigating to adopt ERM No plan Exist to implement ERM Investigating to adopt ERM No plan Exist to implement ERM Investigating to adopt ERM No plan Exist to implement ERM Investigating to adopt ERM No plan Exist to implement ERM Investigating to adopt ERM No plan Exist to implement ERM Investigating to adopt ERM No plan Exist to implement ERM Investigating to adopt		Emerging corporate governance		
Compliance risk Credit risk Information security risk Market risk Operational risk Liquidity risk Antecedents of risk management implementation Complete ERM in Place Partial ERM in Place Planning to implement ERM Investigating to adopt ERM No plan Exist to implement ERM The bank focuses on compliance with government rules and regulations Regulatory Influence Complete ERM in Place Planning to implement ERM Investigating to adopt ERM No plan Exist to implement ERM The bank focuses on compliance with government rules and regulations The bank focuses on compliance with government rules and regulations The bank focuses on compliance with Basel 11 accord The bank focuses on compliance with Basel 11 accord The bank focuses on compliance with Basel 11 accord The bank focuses on compliance with Basel 11 accord The bank focuses on compliance with		requirements		
Areas of risk which present the greatest Information security risk Market risk Operational risk Reputational risk Liquidity risk Antecedents of risk management implementation Complete ERM in Place Planning to implement ERM Investigating to adopt ERM No plan Exist to implement ERM The bank focuses on compliance with Migerian codes (CBN & SEC) of corporate governance The bank focuses on compliance with government rules and regulations Regulatory Influence Antecedents of risk management implement ERM Investigating to adopt ERM No plan Exist to implement ERM 5 The bank focuses on compliance with stock exchange listing requirements The bank focuses on compliance with government rules and regulations The bank focuses on compliance with Basel 11 accord The bank focuses on compliance with Basel 11 accord The bank focuses on compliance with Basel 11 accord The bank focuses on compliance with management operations and policies of the bank focuses on compliance with Basel 11 accord The bank focuses on compliance with management operations and policies of the bank focuses on compliance with government rules and regulations to the pank focuses on compliance with government rules and regulations on compliance with government rules and regulations of the bank focuses on compliance with government rules and regulations on compliance with government rules and regulations of the bank focuses on compliance with government rules and regulations on compliance with government rules and regulations of the bank focuses on compliance with government rules and regulations		Emerging best business practices		
Areas of risk which present the greatest Information security risk Market risk Operational risk Reputational risk Liquidity risk Antecedents of risk management implementation Complete ERM in Place Planning to implement ERM Investigating to adopt ERM No plan Exist to implement ERM The bank focuses on compliance with Migerian codes (CBN & SEC) of corporate governance The bank focuses on compliance with government rules and regulations Regulatory Influence Antecedents of risk management implement ERM Investigating to adopt ERM No plan Exist to implement ERM 5 The bank focuses on compliance with stock exchange listing requirements The bank focuses on compliance with government rules and regulations The bank focuses on compliance with Basel 11 accord The bank focuses on compliance with Basel 11 accord The bank focuses on compliance with Basel 11 accord The bank focuses on compliance with management operations and policies of the bank focuses on compliance with Basel 11 accord The bank focuses on compliance with management operations and policies of the bank focuses on compliance with government rules and regulations to the pank focuses on compliance with government rules and regulations on compliance with government rules and regulations of the bank focuses on compliance with government rules and regulations on compliance with government rules and regulations of the bank focuses on compliance with government rules and regulations on compliance with government rules and regulations of the bank focuses on compliance with government rules and regulations				
present the greatest potential threats and become a priority for my bank Part two		•		
present the greatest potential threats and become a priority for my bank Market risk Operational risk Reputational risk Reputational risk Antecedents of risk management implementation Complete ERM in Place Partial ERM in Place Planning to implement ERM Investigating to adopt ERM No plan Exist to implement ERM The bank focuses on compliance with Nigerian codes (CBN & SEC) of corporate governance The bank focuses on compliance with stock exchange listing requirements The bank focuses on compliance with government rules and regulations The bank focuses on compliance with Basel 11 accord The bank focuses on compliance with Basel 11 accord The bank focuses on compliance with Basel 11 accord The bank focuses on compliance with Basel 11 accord The bank focuses on compliance with	Areas of risk which	Credit risk		Desender, 2007: Fadun.
potential threats and become a priority for my bank Reputational risk Liquidity risk Antecedents of risk management implementation Complete ERM in Place Partial ERM in Place Planning to implement ERM Investigating to adopt ERM No plan Exist to implement ERM Soft corporate governance The bank focuses on compliance with Nigerian codes (CBN & SEC) of corporate governance The bank focuses on compliance with stock exchange listing requirements The bank focuses on compliance with government rules and regulations The bank focuses on compliance with government rules and regulations The bank focuses on compliance with Basel 11 accord The bank focuses on compliance with The bank focuses on compliance with Basel 11 accord The bank focuses on compliance with	present the greatest	Information security risk		
Part two Complete ERM in Place Partial ERM in Place Planning to implement ERM Investigating to adopt ERM No plan Exist to implement ERM The bank focuses on compliance with Nigerian codes (CBN & SEC) of corporate governance The bank focuses on consistent compliance with stock exchange listing requirements The bank focuses on compliance with government rules and regulations The bank focuses on compliance with Basel 11 accord The bank focuses on compliance with The bank focuses on compliance with Basel 11 accord The bank focuses on compliance with The bank focuses on compliance with The bank focuses on compliance with Basel 11 accord The bank focuses on compliance with	potential threats and	Market risk		
Part two Complete ERM in Place Partial ERM in Place Planning to implement ERM Investigating to adopt ERM No plan Exist to implement ERM The bank focuses on compliance with Nigerian codes (CBN & SEC) of corporate governance The bank focuses on consistent compliance with the procedures and policies of the bank The bank focuses on compliance with stock exchange listing requirements The bank focuses on compliance with government rules and regulations The bank focuses on compliance with Basel 11 accord The bank focuses on compliance with The bank focuses on compliance with Basel 11 accord The bank focuses on compliance with The bank focuses on compliance with The bank focuses on compliance with	become a priority for	Operational risk		2010,1 (10g0, 2012)
Antecedents of risk management implementation Complete ERM in Place Partial ERM in Place Planning to implement ERM Investigating to adopt ERM No plan Exist to implement ERM The bank focuses on compliance with Nigerian codes (CBN & SEC) of corporate governance The bank focuses on consistent compliance with the procedures and policies of the bank The bank focuses on compliance with stock exchange listing requirements The bank focuses on compliance with government rules and regulations The bank focuses on compliance with Basel 11 accord The bank focuses on compliance with Basel 11 accord The bank focuses on compliance with	my bank	Reputational risk	7	
Part two Complete ERM in Place Partial ERM in Place Planning to implement ERM Investigating to adopt ERM No plan Exist to implement ERM The bank focuses on compliance with Nigerian codes (CBN & SEC) of corporate governance The bank focuses on consistent compliance with the procedures and policies of the bank The bank focuses on compliance with stock exchange listing requirements The bank focuses on compliance with government rules and regulations The bank focuses on compliance with Basel 11 accord The bank focuses on compliance with The bank focuses on compliance with The bank focuses on compliance with Basel 11 accord The bank focuses on compliance with		Liquidity risk		
Stage of enterprise risk management Planning to implement ERM Investigating to adopt ERM Investigating Investigation Investigating Investigation Investigating Investigation Investigating Investigation In		Antecedents of risk management		
Complete ERM in Place Partial ERM in Place Planning to implement ERM Investigating to adopt ERM No plan Exist to implement ERM The bank focuses on compliance with Nigerian codes (CBN & SEC) of corporate governance The bank focuses on consistent compliance with the procedures and policies of the bank The bank focuses on compliance with stock exchange listing requirements The bank focuses on compliance with government rules and regulations The bank focuses on compliance with Basel 11 accord The bank focuses on compliance with The bank focuses on compliance with	Part two	implementation		
Stage of enterprise risk management implementation Planning to implement ERM Investigating to adopt ERM No plan Exist to implement ERM The bank focuses on compliance with Nigerian codes (CBN & SEC) of corporate governance The bank focuses on consistent compliance with the procedures and policies of the bank The bank focuses on compliance with stock exchange listing requirements The bank focuses on compliance with government rules and regulations The bank focuses on compliance with Basel 11 accord The bank focuses on compliance with The bank focuses on compliance with The bank focuses on compliance with Basel 11 accord The bank focuses on compliance with	1 411 0 000			
Stage of enterprise risk management implementation Planning to implement ERM Investigating to adopt ERM No plan Exist to implement ERM The bank focuses on compliance with Nigerian codes (CBN & SEC) of corporate governance The bank focuses on consistent compliance with the procedures and policies of the bank The bank focuses on compliance with stock exchange listing requirements The bank focuses on compliance with government rules and regulations The bank focuses on compliance with Basel 11 accord The bank focuses on compliance with The bank focuses on compliance with The bank focuses on compliance with Basel 11 accord The bank focuses on compliance with				
management implement ERM Investigating to adopt ERM No plan Exist to implement ERM 5 The bank focuses on compliance with Nigerian codes (CBN & SEC) of corporate governance The bank focuses on consistent compliance with the procedures and policies of the bank The bank focuses on compliance with stock exchange listing requirements The bank focuses on compliance with government rules and regulations The bank focuses on compliance with Basel 11 accord The bank focuses on compliance with The bank focuses on compliance with The bank focuses on compliance with Basel 11 accord The bank focuses on compliance with		Complete ERM in Place		
Investigating to adopt ERM No plan Exist to implement ERM The bank focuses on compliance with Nigerian codes (CBN & SEC) of corporate governance The bank focuses on consistent compliance with the procedures and policies of the bank The bank focuses on compliance with stock exchange listing requirements The bank focuses on compliance with government rules and regulations The bank focuses on compliance with Basel 11 accord The bank focuses on compliance with The bank focuses on compliance with	Stage of enterprise risk	Partial ERM in Place		Beasley et al., (2005;
The bank focuses on compliance with Nigerian codes (CBN & SEC) of corporate governance The bank focuses on consistent compliance with the procedures and policies of the bank The bank focuses on compliance with stock exchange listing requirements The bank focuses on compliance with government rules and regulations The bank focuses on compliance with Basel 11 accord The bank focuses on compliance with The bank focuses on compliance with	management	Planning to implement ERM		2006; 2011; Daud,
The bank focuses on compliance with Nigerian codes (CBN & SEC) of corporate governance The bank focuses on consistent compliance with the procedures and policies of the bank The bank focuses on compliance with stock exchange listing requirements The bank focuses on compliance with government rules and regulations The bank focuses on compliance with Basel 11 accord The bank focuses on compliance with	implementation	Investigating to adopt ERM		Haron & Ibrahim, 2011)
with Nigerian codes (CBN & SEC) of corporate governance The bank focuses on consistent compliance with the procedures and policies of the bank The bank focuses on compliance with stock exchange listing requirements The bank focuses on compliance with government rules and regulations The bank focuses on compliance with Basel 11 accord The bank focuses on compliance with		No plan Exist to implement ERM	5	
of corporate governance The bank focuses on consistent compliance with the procedures and policies of the bank The bank focuses on compliance with stock exchange listing requirements The bank focuses on compliance with government rules and regulations The bank focuses on compliance with Basel 11 accord The bank focuses on compliance with		The bank focuses on compliance		
of corporate governance The bank focuses on consistent compliance with the procedures and policies of the bank The bank focuses on compliance with stock exchange listing requirements The bank focuses on compliance with government rules and regulations The bank focuses on compliance with Basel 11 accord The bank focuses on compliance with	Film Dama Bay	with Nigerian codes (CBN & SEC)	Mala	ysia
compliance with the procedures and policies of the bank The bank focuses on compliance with stock exchange listing requirements The bank focuses on compliance with government rules and regulations The bank focuses on compliance with Basel 11 accord The bank focuses on compliance with	BUIN	of corporate governance		
policies of the bank The bank focuses on compliance with stock exchange listing requirements The bank focuses on compliance with government rules and regulations The bank focuses on compliance with Basel 11 accord The bank focuses on compliance with		The bank focuses on consistent		
The bank focuses on compliance with stock exchange listing requirements The bank focuses on compliance with government rules and regulations The bank focuses on compliance with Basel 11 accord The bank focuses on compliance with		compliance with the procedures and		(Desender, 2007;
Regulatory Influence stock exchange listing requirements The bank focuses on compliance with government rules and regulations The bank focuses on compliance with Basel 11 accord The bank focuses on compliance with		policies of the bank		Liebenberg &Hoyt, 2008;
The bank focuses on compliance with government rules and regulations The bank focuses on compliance with Basel 11 accord The bank focuses on compliance with		The bank focuses on compliance with		Paape & Spekle, 2011)
government rules and regulations The bank focuses on compliance with Basel 11 accord The bank focuses on compliance with	Regulatory Influence	stock exchange listing requirements		
The bank focuses on compliance with Basel 11 accord The bank focuses on compliance with		The bank focuses on compliance with		
Basel 11 accord The bank focuses on compliance with		government rules and regulations		
The bank focuses on compliance with		The bank focuses on compliance with		
		Basel 11 accord		
might are a second and the second sec		The bank focuses on compliance with		
risk management standards and		risk management standards and		
guidelines 6		guidelines	6	
Internal Audit Internal audit independence and	Internal Audit	Internal audit independence and		
Effectiveness objectivity support ERM (Al-Twaijry et al.,	Effectiveness	objectivity support ERM		(Al-Twaijry et al.,
implementation in my bank 2004;Badar & saidin,		implementation in my bank		2004;Badar & saidin,

Variables	Elements/Items	Items	Source
	Internal audit Scope of work covers		2014;
	bank		
	Capital and liquidity management		Beasley et al., 2006;
	which support ERM implementation		Cohen & Sayag, 2010;
	in my bank		Fadzil et al.,2005;
	My bank recognizes and promotes		Mihret & Yismaw, 2007)
	standards of proficiency, technical		
	competence and personal moral		
	integrity among the internal audit to		
	support ERM implementation		
	Internal audit educational		
	background is relevant to banking		
	operations which support ERM		
	implementation in my bank		
	Internal audit has sufficient		
	knowledge of banking operations to	8	
UTARA	support ERM implementation in my		
	bank		
	Internal audit knowledge of internal		
	auditing standards supports ERM		
	implementation in my bank		
	Availability of audit manual in my	Mala	ysia
BUDI W	bank support ERM implementation		
	Top management implements		
	internal audit recommendation to		
	support ERM implementation in my		
	bank		
	My bank focuses on education and		
	training to enhance staff capability		Al-Twaijry et al., 2004;
	My bank provides infrastructure such		Colquit, Hoyt &Lee.,
	as equipment and facilities to		1999; Yaraghi & Langhe,
Human resource	enhance staff performance		2011;
competency	My bank focuses on creating	7	
	knowledge of risk management		
	through risk awareness culture		
	My bank applies skills, knowledge		
	and experience to enhance		
	competitive advantage		

Variables	Elements/Items	Items	Source
	My bank has devised a credible		
	reward system and recognize		
	employees and managers for their		
	high performance and goal		
	achievements to support capacity		
	development		
	My bank promotes staff proficiency		
	level through professional		
	qualification and certification to		
	support ERM implementation		
	My bank provides full time		
	educational studies in risk		
	management to support ERM		
	implementation		
	Top management assumes the		
	responsibility for initiating and		
UTARA	maintaining ERM goals and culture		
	Top management vision, mission		
8	and commitment to ERM		
	implementation is continually)	
	communicated to all employees		
Earl Devel B.S.	Top management is accountable for	Mala	ysia
auni	risk management implementation		
	The policy and strategy of our bank		Manab & Kassim, 2012;
Top Management	are based on the concept of ERM		Ren, Chandrasekar &Bin
commitment which	Top management development bank-		Li, 2012; Yaraghi &
influence ERM	wide guidelines for risk management		Langhe, 2011; Walker et
implementation in my	and is involved in reviewing progress		al., 2002)
bank	towards ERM process		<i>u</i> , 2002)
	Top management makes risk		
	management a top priority and		
	spends a significant proportion of		
	time on ERM issues	10	
	Necessary policy changes have been		
	made to encourage employees		
	participation and involvement in the		
	ERM process Top management		
	provides needed funds for		
	infrastructure such as equipment and		

Variables	Elements/Items	Items	Source
	facilities		
	Top management has Sufficient		
	Skills, knowledge and experience in		
	ERM process and decision making		
	Top management Encourages		
	employee competency development		
	by providing needed funds for		
	training and education on the ERM		
	essential technique		
	Top management is committed to		
	ERM process through the		
	implementation of internal audit		
	recommendation		
	Top management Promotes risk		
	optimization and exploit		
	opportunities to enhance competitive		
UTAR	advantage		
	Larger Boards with diverse		
	background have knowledge and are	Mala	ysia
BUDI W	more experienced to support ERM		
Board Characteristics	implementation		
	Internal and external directors have		
	the skills and expertise that support		Adams and Ferreira,
	ERM implementation		2009; Beasley, 1996;
	Frequency of board meetings,		Desender, (2007; Ren,
	supports ERM implementation		Chandrasekar &Bin Li,
	The presence of risk Management		2012;
	committee support ERM		Yazid & Daud, 2011)
	implementation		
	The higher percentage of independent		
	Board directors support ERM		
	deployment		
	The board directors with equity		
	ownership are more committed to		
	ERM implementation		
	The greater percentage of women	8	

Variables	Elements/Items	Items	Source
	Board Directors support ERM		
	implementation		
	The directors with educational		
	background are committed to ERM		
	implementation		
Total	Items	69	



Appendix 3 Logistic Output for Model 1

. logit SERM RIS IAE HRC

Iteration 0: log likelihood = -153.1231 Iteration 1: $\log likelihood = -145.30992$ Iteration 2: log likelihood = -143.95844 log likelihood = -143.95641 log likelihood = -143.95641 Iteration 3: Iteration 4:

Logistic regression Number of obs = LR chi2(3) = 18.33 Prob > chi2 = 0.0004 Pseudo R2 = 0.0599 18.33

Log likelihood = -143.956410.0599 Pseudo R2

SERM	Coef.	Std. Err.	z	P> z	[95% Conf. Inter	val]
RIS	.32652	.1690884	1.93	0.053	0048872 .6579	9272
IAE	.2867093	.1659002	1.73	0.084	0384492 .6118	3678
HRC	.2783901	.15435	1.80	0.071	0241303 .5809	9105
_cons	-1.609381	.8401628	-1.92	0.055	-3.25607 .0373	308



Appendix 4: Logistic Regression Output for Model 2

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435
23.44
0.0003
0.0765

		JS U	nivers	iti Ut	ara Mala	ysia
SERM	Coef.	Std. Err.	Z	P>z	[95% Conf. In	nterval]
RIS	.1429708	.1925115	0.74	0.458	2343447	.5202864
IAE	.3418751	.1796155	1.90	0.057	0101648	.6939151
HRC	.3752854	.1662721	2.26	0.024	.049398	.7011728
TMC	.4305922	.1839006	2.34	0.019	.0701536	.7910308
BCS	642989	.2922642	-2.20	0.028	-1.215816	0701616
_cons	6027392	.9829101	-0.61	0.540	-2.529208	1.323729

. lfit,group(10) table

Logistic model for SERM, goodness-of-fit test

(Table collapsed on quantiles of estimated probabilities)

+-								+
Gı	coup	Prob	Obs_1	Exp_1	Obs_0	Exp_0	Total	
		+		+	-+	+	+	
1	0.7977	33	30.6	11	13.4	44		
2	0.8493	34	36.4	10	7.6	44		
3	0.8817	35	37.4	8	5.6	43		
4	0.8981	39	39.1	5	4.9	44		
5	0.9113	41	39.8	3	4.2	44		

```
6 0.9203 40 39.4 3 3.6 43
7 0.9319 43 41.7 2 3.3 45
8 0.9425 44 45.0 4 3.0 48
9 0.9506 37 36.0 1 2.0 38
10 0.9897 40 40.5 2 1.5 42
```

Number of observations = 435Number of groups = 10Hosmer-Lemeshow chi2 (8) = 4.81Prob > chi2 = 0.7772

. lstat

Logistic model for SERM

True							
Classified	D	~D	Total				
+	384	46 3	430 5				
Total	386	49	435				

Classified + if predicted Pr (D) >=.5 True D defined as SERM = 0

Sensitivity Specificity Positive predictive value Negative predictive value	Pr (+ D) 99.48% Pr (-~D) 6.12% Pr (D +) 89.30% Pr (~D -) 60.00%
False + rate for true ~D	Pr (+~D) 93.88%
False - rate for true D	Pr (- D) 0.52%
False + rate for classified +	Pr (~D +) 10.70%
False - rate for classified -	Pr (D -) 40.00%

Correctly classified 88.97%

. linktest

Iteration 0: log likelihood = -153.1231
Iteration 1: log likelihood = -145.25373
Iteration 2: log likelihood = -141.68896
Iteration 3: log likelihood = -141.34618
Iteration 4: log likelihood = -141.34558
Iteration 5: log likelihood = -141.34558

Logistic regression	Number of obs	=	435
	LR chi2(2)	=	23.56
	Prob > chi2	=	0.0000
Log likelihood = -141.34558	Pseudo R2	=	0.0769

SERM	Coef.	Std. Err.	Z	P>z	[95% Conf.	Interval]
_hat _hatsq _cons	.7866096 .0655661 .1325888	.6629395 .1942621 .5783009	0.34	0.736	3151806	2.085947 .4463128 1.266038

```
. mfx comput, eyex at (mean)
Elasticities after logit
y = Pr(SERM) (predict)
  .9044621
variable ey/ex Std. Err. z
              .07891 0.74 0.457 -.095947
RIS .0587186
IAE .143788
                      1.91 0.057
2.29 0.022
              .0754
HRC .1515758
              .06628
```

Appendix 5: Logistic Regression Output for Model 3

.11263 -2.25 0.024

2.36 0.018

Statistics/Data Analysis Special Edition

.07274

http://www.stata.com

TMC .1720225 BCS-.2537687

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-.003985 .291561 4.4023 .02166 .281491 4.22759 .029449 .314596 4.18161

.213385 4.29885

-.033017 4.13103

P>z [95% C.I.]

-.474521

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Notes:

(/v# option or -set maxvar-) 5000 maximum variables

- . use "C:\Users\User\Desktop\Working Dab..41.dta", clear
- . logistic SERM RIS IAE HRC TMC BCS Auditfirm Assets Branches NSE CRO

Logistic regression Number of obs = 25.98 LR chi2(10) =Prob > chi2 = 0.0038 Log likelihood = -140.13376Pseudo R2 0.0848

SERM Odds Ratio	Std. Err.	z	P> z	[95% Conf. Interval]	
RIS 1.118208 IAE 1.455346 HRC 1.460179 TMC 1.598764 BCS .5436327 Auditfirm1.206677 Assets 1.141677	.2179637 .267569 .2421964 .3005296 .1594861 .4114435 .1966062	0.57 2.04 2.28 2.50 -2.08 0.55 0.77		.7631406 1.638479 1.015011 2.086709 1.05492 2.021124 1.10606 2.310947 .3059058 .966103 .6185214 2.354113 .8146276 1.600026	
Branches .8086472 NSE 1.993575 CRO .7149352 _cons .341225	.2583327 1.380105 .7788854 .8195378	-0.66 1.00 -0.31 -0.45	0.319	.4323464 1.512468 .5132934 7.742822 .0845135 6.047937 .0030808 37.79339	

- . do "C:\Users\User\AppData\Local\Temp\STD04000000.tmp"
- . logit SERM RIS IAE HRC TMC BCS Auditfirm Assets Branches NSE CRO

Iteration 0: $\log likelihood = -153.1231$

```
Iteration 1: log likelihood = -141.81898
Iteration 2: log likelihood = -140.14065
Iteration 3: log likelihood = -140.13376
Iteration 4: log likelihood = -140.13376
```

Logistic regression Number of obs = 435 LR chi2(10) = 25.98 Prob > chi2 = 0.0038 Log likelihood = -140.13376 Pseudo R2 = 0.0848

SERM Interval]	Coef.	Std. E	lrr.	z P	> z [95%	Conf
RIS .1117277	.1949223	0.57	0.567	270313	.4937683	
IAE .3752437	.1838525	2.04	0.041	.0148993	.735588	
HRC .3785592	.1658676	2.28	0.022	.0534648	.7036536	
TMC .469231	.1879762	2.50	0.013	.1008045	.8376576	
BCS 6094814	.293371	-2.08	0.038	-1.184478	0344849	
Auditfir.1878702	.3409724	0.55	0.582	4804235	.8561638	
Assets .1324978	.1722083	0.77	0.442	2050242	.4700199	
Branches2123926	.3194628	-0.66	0.506	8385282	.413743	
NSE .6899293	.6922765	1.00	0.319	6669076	2.046766	
CRO 3355634	1.089449	-0.31	0.758	-2.47084	1.799717	
_cons -1.075213	2.401752	-0.45	0.654	-5.782563	3.632134	

Universiti Utara Malaysia

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r(111);

- . do "C:\Users\User\AppData\Local\Temp\STD04000000.tmp"
- . lfit,group(10) table

Logistic model for SERM, goodness-of-fit test

(Table collapsed on quantiles of estimated probabilities)

+					-				-		·	
Group	-	Prob		0bs_1	!	Exp_1		Obs_0		Exp_0		Total
1 1	-+	0.7838	-+	33	+	30.3	-+-	 11	+	13.7	+.	44
•		0.7636	1	35				8		7.7		43
'	i	0.8790	i	34				10		5.9		44
1 4	i	0.8974	i	38	i	38.3	i	5		4.7	i	43
5	i	0.9108	i	39	i	39.8	i	5	İ	4.2	i	44
	-+		-+		+		+-		+		+	
6		0.9223		42		39.4		1		3.6		43
7		0.9358		40		40.9		4		3.1		44
8		0.9451		43		42.3		2		2.7		45
1 9		0.9578		40		39.9		2		2.1		42
10		0.9939		42		41.7		1	1	1.3		43
+					_				-			

- . do "C:\Users\User\AppData\Local\Temp\STD04000000.tmp"
- . 1stat

Logistic model for SERM

```
----- True -----
Classified | D ~D | Total
                       | 385 47 |
| 1 2 |
      Total | 386
                                                   49 |
Classified + if predicted Pr (D) >= .5
                                                                      = 0
True D defined as SERM!
Sensitivity
                                                                  Pr (+| D) 99.74%
Specificity
                                                                  Pr (-|~D)
                                                         Pr (D| +) 89.12%
Pr (~D| -) 66.67%
Positive predictive value
Negative predictive value
_____
False + rate for true \sim D Pr (+|\sim D) 95.92%
                                                                  Pr (-| D) 0.26%
False - rate for true D
False + rate for classified + Pr (^{\circ}D| +) 10.889
False - rate for classified - Pr (D| -) 33.33%
                                                                                                10.88%
 _____
Correctly classified
______
 . do "C:\Users\User\AppData\Local\Temp\STD04000000.tmp"
 . linktest
Iteration 0: \log likelihood = -153.1231
Iteration 1: log likelihood = -144.02849
Iteration 2: log likelihood = -140.26614
Iteration 3: \log \text{ likelihood} = -140.26614

Then the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
                             log likelihood = -139.95806
Iteration 4:
Iteration 5: log likelihood = -139.95806
                                                       Number of obs =
Logistic regression
                                                                                                                                               435
                                                                                                     LR chi2 (2) = 26.33
                                                                                                                                                0.0000
                                                                                                                                       =
                                                                                                       Prob > chi2
Log likelihood = -139.95806
                                                                                                           Pseudo R2
                                                                                                                                                     0.0860
                        Coef. Std. Err. z P>|z| [95% Conf. Interval]
 ______
do "C:\Users\User\AppData\Local\Temp\STD04000000.tmp"
  mfx comput, eyex at (mean)
Elasticities after logit
            y = Pr(SERM) (predict)
                  = .90682032
                                                                                z P>|z| [ 95% C.I. ]
variable | ey/ex Std. Err.
RIS | .0447542 .07804 0.57 0.566 -.108202 .19771 4.29885  
IAE | .1539267 .07494 2.05 0.040 .007051 .300802 4.4023  
HRC | .149124 .06489 2.30 0.022 .021951 .276297 4.22759  
TMC | .1828316 .07211 2.54 0.011 .041508 .324156 4.1816
```

.07211 2.54 0.011 .041508 .324156 4.1816

TMC | .1828316

```
. gen bcsiae= BCS* IAE
. gen bcshrc= BCS* HRC
. gen bcstmc= BCS* TMC
. gen bcsris= BCS* RIS
. logit SERM IAE HRC TMC RIS BCS bcsiae bcshrc bcstmc bcsris
Iteration 0: \log likelihood = -153.1231
Iteration 1: \log \text{ likelihood} = -138.79345
Iteration 2: \log \text{likelihood} = -135.26958
Iteration 3: \log \text{ likelihood} = -135.12018
Iteration 4: log likelihood = -135.1199
Iteration 5: log likelihood = -135.1199
Logistic regression
                                              Number of obs =
                                                                           435
LR chi2(9) = 36.01
Prob > chi2 = 0.0000
Log likelihood = -135.1199
                                                                = 0.1176
                                              Pseudo R2
SERM | Coef. Std. Err. z P>|z| [95% Conf. Interval]
Interval]
TMC | 3.350197 1.259638 2.66 0.008 .881352 5.819042  
RIS | -1.12832 1.135869 -0.99 0.321 -3.354583 1.097943  
BCS | -1.162986 1.203376 -0.97 0.334 -3.52156 1.195588  
bcsiae | .6779493 .2446708 2.77 0.006 .1984032 1.157495  
bcshrc | .0264829 .2332383 0.11 0.910 -.4306559 .4836216  
bcstmc -.7584487 .309364 -2.45 0.014 -1.364791 -.1521065  
bcsris | .2537448 .2853578 0.89 0.374 -.3055462 .8130357  
cons | 2.679096 4.749348 0.56 0.573 -6.629454 11.98765
                                                                      1.097943
                                                                      1.195588
                                                                       1.157495
                                                                       .4836216
_____
```

Appendix 6: Structural Equation Modeling

```
_ ___ (R)
1. sem (SERM -> IAE) (SERM -> HRC) (SERM -> TMC) (SERM -> RIS) (SERM -> BCS), latent(SERM )
nocapslatent
note: The following latent variable name is also present in the data: SERM.
Endogenous variables
Measurement: IAE HRC TMC RIS BCS
Exogenous variables
Latent:
         SERM
Fitting target model:
Iteration 0: log likelihood = -2491.3781
Iteration 1: log likelihood = -2491.2616
Iteration 2: log likelihood = -2491.2615
Structural equation model
                                 Number of obs
                                                     435
Estimation method = ml
Log likelihood = -2491.2615
(1) [IAE]SERM = 1
                OIM
          Coef. Std. Err. z P>|z| [95% Conf. Interval]
Measurement |
IAE <- |
    SERM |
               1 (constrained)
   _cons | 4.402299 .0397241 110.82 0.000 4.324441 4.480157
HRC <-
    SERM | 1.122806 .1496294 7.50 0.000
                                            .8295375 1.416074
                                            4.13924 4.315933
   _cons | 4.227586 .0450756 93.79 0.000
TMC <- I
    SERM | 1.188396 .1488288 7.98 0.000
                                            .8966969 1.480095
   _cons | 4.181609 .0418019 100.03 0.000
                                            4.099679 4.263539
RIS <- |
    SERM | 1.587772 .1760256 9.02 0.000
                                            1.242769 1.932776
   _cons | 4.298851 .0436871 98.40 0.000
                                           4.213225 4.384476
 BCS <- I
    SERM | 1.027192 .121338 8.47 0.000
                                           .7893742 1.265011
   _cons | 4.131034 .0318822 129.57 0.000 4.068546 4.193523
Variance |
   e.IAE | .5039532 .0386014
                                 .4337011 .585585
   e.HRC | .6537868 .0500332
                                        .5627235 .7595864
```

e.TMC | .5024091 .0407743

.4285249 .5890321

```
e.RIS | .3701951 .0420437
                                       .2963181 .4624909
   e.BCS | .2496308 .0227015
                                        .2088765 .2983366
    SERM | .1824781 .0363464
                                        .1234999 .2696216
LR test of model vs. saturated: chi2(5) = 2.79, Prob > chi2 = 0.7328
2. m (SERM -> HRC) (SERM -> TMC) (SERM -> RIS) (SERM -> IAE) (SERM -> BCS), latent(SERM )
nocapslatent
note: The following latent variable name is also present in the data: SERM.
Endogenous variables
Measurement: HRC TMC RIS IAE BCS
Exogenous variables
Latent:
         SERM
Fitting target model:
Iteration 0: log likelihood = -2491.3277
Iteration 1: log likelihood = -2491.2616
Iteration 2: log likelihood = -2491.2615
Structural equation model
                                 Number of obs
                                                     435
Estimation method = ml
Log likelihood = -2491.2615
(1) [HRC]SERM = 1
                OIM
          Coef. Std. Err. z P>|z| [95% Conf. Interval]
                               <del>Universiti</del> Utara Malaysia
Measurement |
HRC <- I
    SERM |
               1 (constrained)
   _cons | 4.227586 .0450756 93.79 0.000
                                            4.13924 4.315933
 TMC <- I
    SERM | 1.058412 .132326 8.00 0.000 .7990575 1.317766
   _cons | 4.181609 .041802 100.03 0.000
                                           4.099679 4.26354
RIS <- |
    SERM | 1.414104 .1630188 8.67 0.000 1.094593 1.733615
   _cons | 4.298851 .0436872 98.40 0.000 4.213225 4.384476
    ----+---
 IAE <- |
    SERM | .8906193 .1186877 7.50 0.000 .6579956 1.123243
   _cons | 4.402299 .0397241 110.82 0.000 4.324441 4.480157
 BCS <- |
    SERM | .914841 .1070193 8.55 0.000
                                           .705087 1.124595
   _cons | 4.131034 .0318823 129.57 0.000 4.068546 4.193523
Variance |
   e.HRC | .6537863 .0500332
                                     .5627231 .7595858
                                     .4285249 .5890322
   e.TMC | .5024092 .0407743
   e.RIS | .3701953 .0420437
                                       .2963183 .462491
```

.4337014 .5855856

e.IAE | .5039537 .0386015

LR test of model vs. saturated: chi2(5) = 2.79, Prob > chi2 = 0.7328

.

..



Appendix 7: List of Commercial Banks and Location of their Head Offices

S/No.	Bank	Head Office	Location
1	Access Bank Plc.	1665, Oyin Jolayemi Street, Victoria Island, Lagos.	Lagos
2	Citibank Nigeria Limited	11 Idowu Taylor Street, Lagos	Lagos
3	Diamond Bank	Plot 1261 Adeola Hopewell Street, Lagos	Lagos
4	Ecobank Bank Limited	2, Ajose Adeogun Street, Lagos	Lagos
5	Enterprise Bank Limited	Plot 143, Ahmadu Bello Way, Victoria Island, Lagos	Lagos
6	Fidelity Bank Plc	2 Kofo Abayomi Street, Lagos	Lagos
7	First Bank of Nigeria Plc	35 Marina, Lagos	Lagos
8	First City Monument Bank Plc	Primrose Towers, 6-10 Floors 17A Tinubu Square, Lagos	Lagos
9	Guaranty Trust Bank Plc	Plot 1669, Oyin Jolayemi Street, Lagos	Lagos
10	Heritage Bank Ltd.	292B Ajose Adeogun Street, Victoria Island, Lagos	Lagos
11	Key Stone Bank	Plot 707, Adeola Hopewell Street, Lagos	Lagos
12	Main Street Bank	94, Broad Street, Lagos	Lagos
13	Skye Bank Plc	Plot 708/709, Adeola Hopewell Street, Victoria Island, Lagos	Lagos
14	Stanbic IBTC Bank Ltd	Walter Carrington Crescent, Vicoria Island Lagos	Lagos

15	Standard Chartered Bank Nigeria	105B, Ajose Adeogun Street, Lagos	Lagos
13	Ltd.		Lagos
16		Sterling Towers, 20 Marina, Lagos	Lagos
	Sterling Bank Plc		8
17	Union Bank of Nigeria Plc	36, Marina, Lagos	Lagos
18	United Bank For Africa Plc	57, Marina, Lagos	Lagos
10	Cinica Bunk I of Affica I io		
19	Unity Bank Plc	Plot 785, Herbert Macauly Way, Abuja	Abuja
		Wema Towers 54, Marina Lagos Island	
20	Wema Bank Plc	Ç	Lagos
		Plot 292, Ajose Adeogun Street, Victoria Island,	
21		Lagos	Lagos
	Zenith Bank Plc		

Universiti Utara Malaysia

Source: Central Bank of Nigeria (CBN), 2012

Appendix 8: Letter for Data Collection from Supervisor



School of Accountancy (SOA)
UUM College of Business
Accounting Building
Universiti Utara Malaysia
06010 UUM Sintok
Kedah DarulAman, Malaysia

Tel: 604 928 7201 Fax: 604 928 7216

UUM/COB/SOA/P-89

8th October 2014

TO WHOM IT MAY CONCERN

Dear Sir/Madam

DATA COLLECTION

PROGRAMME: DOCTOR OF PHILOSOPHY

PROJECT TITLE: "THE LEVEL OF RISK MANAGEMENT IMPLEMENTATION IN NIGERIAN

BANKING SECTOR"

This is to certify that the following is a postgraduate student from the School of Accountancy, College of Business, Universiti Utara Malaysia. He is pursuing the above mentioned course which requires him to undertake an academic study and prepare an assignment. The details are as follows:

NO.	NAME	MATRIC NO.
/1./	Ishaya John Dabari	94951

In this regard, I hope that you could kindly provide assistance and cooperation for him to successfully complete the assignment given. All the information gathered will be strictly used for academic purposes only.

Your cooperation and assistance is very much appreciated.

Thank you.

"SCHOLARSHIP, VIRTUE, SERVICE"

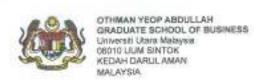
Yours sincerely

DR. SITI ZABEDAH SAIDIN

PhD Supervisor School of Accountancy College of Business, UUM

c.c - Student's File (94951)

Appendix 9: Letter of Data Collection from Oya, UUM.





Tel: 604-928 2118/2118/713 Foks (bu): 604-605 T160 Larson Web (Web): www.syageEsam.edu.my

KEDAH AMAN MAKMUR * BERSAMA MEMACU TRANSFORMASI

UUM/OYAGSB/K-14 17 August 2014

TO WHOM IT MAY CONCERN

Dear Sir/Madam

DATA COLLECTION

PROGRAMME: DOCTOR OF PHILOSOPHY DR. SITI ZABEDAH SAIDIN

SUPERVISOR:

This is to certify that the following is a postgraduate student from the OYA Graduate School of Business. Universiti Utara Malaysia. He is pursuing the above mentioned course which requires him to undertake an academic study and prepare an assignment. The details are as follows:

NOL	NAME	MATRIC NO.
1. Ishaya	John Dobari	94951

in this regard, I hope that you could kindly provide assistance and cooperation for him to successfully complete the assignment given. All the information gathered will be strictly used for academic purposes only.

Your cooperatori and assistance is very much appreciated Malaysia

Thank you.

"SCHOLARSHIP, VIRTUE, SERVICE"

ROZINA BINTE RAMUL Assistant Register

Othman Yeap Abdullah Graduate School of Business

Student's File (94951)

Universiti Pengurusan Terkemuka The Eminent Management University





Appendix 10: Table for Required Sample Size at the 5% Confidence Interval

given a finite population ($N = Population \ size \ and \ n = Sample \ size)$

N-n	N-n	N-n	N-n	N-n
10-10	100-80	280-162	800-260	2800-338
15-14	110-86	290-165	850-265	3000-341
20-19	120-92	300-169	900-269	3500-346
25-24	130-97	320-175	950-274	4000-351
30-28	140-103	340-181	1000-278	4500-354
35-32	150-108	360-186	1100-285	5000-357
40-36	160-113	380-191	1200-291	6000-361
45-40	170-118	400-196	1300-297	7000-364
50-44	180-123	420-201	1400-302	8000-367
55-48	190-127	440-205	1500-306	9000-368
60-52	200-132	460-210	1600-310	10000-370
65-56	210-136	480-241	1700-313	15000-375
70-59	220-140	500-217	1800-317	20000-377
75-63	230-144	550-226	1900-320	30000-379
80-66	240-148	600-234	2000-322	40000-380
85-70	250-152	650-242	2200-327	50000-381
90-73	260-155	700-248	2400-331	75000-382
95-76	270-159	750-254	2600-335	100000-384

Source: Krejcie and Morgan (1970).

Appendix 11: Literature Review Summary Table

Literature review on ERM implementation based on quantitative method using secondary data Table 2.4 Literature Review Summary Table (Secondary Data)

	Author(s)/year/	Summary Table (Secondary D Independent Variables	
S/No.	Location	(IVs)	Results and Recommendation
1	Andre P. Liebenberg& Robert E. Hoyt, 2003,USA	Size, industry, earning volatility, stock price volatility, average leverage, av. Mkt. to book- ratio, financial operating average %,institutional ownership, UK Canadian Subsidiaries	No. differences in the financial and ownership characteristics. Findings indicate that firms with greater financial leverage are more likely to hire CRO. Appointment of CROs will reduce information asymmetry with regards to firms expected risk profile. Recommend further studies on ERM adoption determinants particularly organisational structure.
2	Donal Pagach, 2007, USA	Financial characteristics, Assets characteristics, Market characteristics, managerial incentives, controls	Study reveals that firms that are more leverage and have poor stock market performance are likely to commence ERM programme. If value of CEOs option and stock portfolio is increasing in stock volatility, the firm is more likely to adopt ERM practices.
3	Robert E Hoyt &Andre P. Liebenberg, 2008,USA	Size, institutional ownership, diversification, industry, ERM engagement, leverage, profitability, industrial diversification, international diversification, dividend policy, growth opportunity	Results show that size and institutional ownership are positively related to ERM deployments, and negatively related to reinsurance use and leverage. The study reveals a positive relation between firm value and the use of ERM. Recommend further studies on the determinants of ERM implementation using questionnaire and other methods other industries
4	Lawrence A. Gordon, Martin P. Loeb &Chih-Yang Tseng, 2009, USA	ERM and Firm Performance	The findings show that firms should consider the implementation of an ERM practices in conjunction with contextual variables surrounding the firms.

			CRO s, dedicated risk committee and
5	Martin F. Grace, J. Tyler Leverty, Richard D. Philips & Prakash Shimpi, 2010,USA	CROs, dedicated risk committee and risk management entities.	risk management entities that report to
6	Don Pagach &Richard Warr, 2010,USA	Risk characteristics, financial characteristics, Assets characteristics and Bank characteristics	Firms implementing ERM witness a reduction in earnings volatility. The study finds little impact from ERM adoption on a wide range of firm variables. The study fail to support that ERM adoption creates value.
7	Don Pagach &Richard Warr, 2011,USA	Financial characteristics Size, leverage, cash ratio, tax save, SDCF%. Assets characteristic Opacity, sales growth, market to book. Market characteristics SDRET%	Study reveals that ERM adoption is for direct economic benefit rather than comply with regulation. Furthermore, firms that are large, more volatile, and have greater institutional ownership are more likely to implement ERM. in addition, finding reveals that Banks with lower levels of tirel capital are also more likely to hire CRO. The studies recommend further research on the evolution of firms ERM programmes.
8	Muhammed Altuntas, Thomas R. BERRY- Stolze,& Robert E. Hoyt, 2011, Germany	Managerial career concerns, performance, organisational form, business concentration, size, capital to assets, group membership &tax expenses.	The researchers postulate that top management's decision to adopt ERM is influenced by managerial career concerns. If performance declines, top management may get fire fired and might implement ERM to indicate that it can back the firm on track. The study further reveals that negative changes in past firm performance increase a firm's probability to adoption.
9	Robert E. Hoyt &Andre P. Liebenberg, 2011 USA	Size, leverage, sales growth, ROA. Div-Ind, Dividends, Insider, life, opacity, Beta, institutional ownership, rein	Findings show positive relation between firm value and the effect of ERM on firm value. The ERM premium is of about 20% statistically

		use, slack, value change , CV(EBIT) & LagInsdret	and economically significant. Recommend further research using larger samples and refined such as questionnaire.
10	Thomas R. Berry Stolzle &Jianren Xu, 2013, USA	ERM Adoption with Cost of capital as DV.	The findings reveal that ERM adoption significantly reduces firms cost of capital. The research further suggest that the cost of capital benefits determines how ERM can create value
11	Nadine Gatzert &Micheal Martin, 2013,Germany	Company size, financial leverage, earnings, cash flow volatility, asset opacity, growth opportunity, Diversification, institutional ownership.	Based the reviewed literature the result indicates that the company size and the level of institutional ownership are significantly positively related to the implementation of ERM. ERM has impact on corporate value and performance.



Appendix 12: Risk Management Frameworks, Standards And Guidelines

S/No	Date	Title	Standards body/ Publisher
1	1995	AS/NZS4360: 1995 Risk Management	Standards Australia, Homebush
2	1999	AS/NZS4360: 1999 Risk Management	NSW 2140, Australia, and
3	2004	AS/NZS4360: 2004 Risk Management	Standards New Zealand, Wellington, 6001, New Zealand
4	1997	CAN/CSA-Q850-97, Risk Management Guideline for Decision Makers	Canadian Standards Association, Ontario, Canada
5	1996	BS 8444-3: 1996 Risk Management-Part 3Guide to risk Analysis of Technological Systems	British Standards Institution, London, UK.
6	2000	BS 6079-3: 2000 Project Management- Part 3 Guide to the Management of Business- related Project Risk	British Standards Institution, London, UK.
7	2000	PD 6688:Managing Risk for Corporate Governance	British Standards Institution, London, UK.
8	2002	PD ISO 31000/IEC Guide 73: 2002, Risk Management- Vocabulary- Guidelines for use in Standards	British Standards Institution, London, UK.
9	2001	Guidelines for Development and Implementation of Risk Management System	Japanese Standards Association Tokyo, Japan
10	2001	IEC 62198: 2001, Project Risk Management- application System	International Electronical Commission, Switzerland
11	2001	New Basel Capital Accord- Consultative Document	Basel Committee on Banking Supervision
12	2002	A Risk Management Standard	Institute of Risk Management (IRM) Association of Insurance and Risk Managers (AIRMIC) and National Forum for Risk Management in the Public Sector (Alarm), London
13	2004	ISO 14001: 2004, Environmental Management Systems- General Guidelines on principles, Systems and Support Techniques	Internal Organisation for Standization, Geneva, Switzerland.
14	2004	Enterprise Risk Management –Integrated Framework	The Committee of Sponsoring Organisations of the tread Way

			Commission, USA
15		2011 SEC Code of Corporate Governance	Nigerian Code of Corporate
	2011	in Nigeria	Governance and International Best
		CBN issued Exposure Draft CODE for	Practice on Corporate Governance
	2012	Banks in Nigeria in 2012	CBN issued Exposure Draft CODE
			for Banks in Nigeria
16	2012	Malaysian Code on Corporate Governance	Malaysia Code of Corporate
		2012 (MCCG, 2012)	Governance

Source; (Adapted from Manab, (2009) as adopted from Hillson, 2006). The standard was being updated and reissued from time to time



Appendix 13: Implementation of Sustainable Banking Principles for ERM Implementation



CENTRAL BANK OF NIGERIA

Financial Policy & Regulation Department Central Business District P.M.B. 3157 Serki, Abuju

09-46237401 Tel: E-mail: fprd@rbs.goving September 24, 2012

FPR/DIR/CIR/GEN/01/33

Circular to all Banks, Discount Houses and Development Finance Institutions

IMPLEMENTATION OF SUSTAINABLE BANKING PRINCIPLES BY BANKS, DISCOUNT HOUSES AND DEVELOPMENT FINANCE INSTITUTIONS IN NIGERIA

The Barikets' Committee, at its retreat of July 14, 2012, approved the adaption of the Nigeria Sustainable Banking Principles by banks, discount houses and development finance institutions in Nigeria. This is in furnishable of the Bankets Committee's commitment to between positive development impacts to society while protecting the communities and environment in which financial institutions and their clients operate.

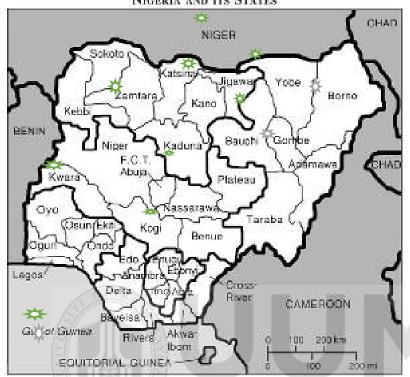
To enable effective implementation of these principles, the following documents, which were considered at that meeting are hereby issued to banks discount houses and development finance institutions:

- 1) The Nigeria Sustainable Banking Principles
- 2) The Vigeria Susfamable Banking Principles Guidance Notes:
- Nigeria Sustainable Banking Principles Power Sector Cuidelines;
- Nigeria Sustainable Banking Principles Agriculture Sactor Guideliness and
- 5) Nigeria Sustainable Banking Principles Oil and Gas Sector Guidelines.

Appendix 14: Nigerian Map Showing cities For Location Of Studies In The Nigerian

Map





Source: Retrieved Http://www.puching.com/newsimmigration
Location of questionnaire distribution for main study
Location for pilot test