FACTORS INFLUENCE SUKUK AND CONVENTIONAL BONDS IN MALAYSIA

GHEMARI ABD ELKARIM

UNIVERSITI UTARA MALAYSIA

Factors Influence Sukuk and Conventional Bonds in Malaysia

By Ghemari Abd Elkarim

A project paper submitted to
Othman Yeop Abdullah Graduate School of Business
Universiti Utara Malaysia
In Fulfillment of the Requirements for the Award of Master's Degree in Economics
Copyright © Ghemari Abdelkarim, December 2012. All Rights Reserved

PERMISSION TO USE

In presenting this dissertation/project paper in partial fulfillment of the requirements for a post graduate degree from Universiti Utara Malaysia, I agree that the University library makes a freely for inspection. I further agree that permission for copying of this dissertation/project paper in any manner, in whole or in part, for scholarly purpose may be granted by my supervisor(S) or, in their absence by the dean of Otman Yeop Abdullah Graduate School of Business. It is understood that any copying or publication or use of this dissertation/project paper or parts thereof for financial gain shall not be given to me and to Universiti Utara Malaysia for any scholarly use which may be made of any material from my thesis/dissertation/project paper.Request for permission to copy or make other use of materials in this dissertation/project paper, in whole or in part should be addressed to:

Dean

Dean of Othman Yeop Abdullah Graduate School of Business
Universiti Utara Malaysia
06010 UUM Sintok
Kedah Darul Aman

ABSTRACT

The study attempts to investigate the impact influence of macroeconomic variables on

Sukuk and conventional bonds issuance during periods that include the Malaysian

period of economic crisis. This study examines three variables in relation to Sukuk

and conventional bonds issuance for the period of 1990-2011: (i) gross domestic

product (GDP), (ii) inflation rate, and (iii) interest rate. The results of the regression

analysis for Sukuk indicate that, there is a negative effect and significant relationships

between GDP, inflation rate and interest rate with Sukuk issuance. However, for conventional

bonds, only GDP shows a significant negative effect on the relationship.

Keywords: Financial Crisis, Sukuk, conventional bonds. Malaysia's Capital Market

II

ABSTRACT

Kajian ini bertujuan untuk mengkaji kesan pengaruh pembolehubah makroekonomi

pada pengeluaran Sukuk dan bon konvensional, dengan memberi tumpuan kepada

Pasaran Modal Malaysia. Kajian ini meneliti pengaruh tiga pembolehubah ke atas

terbitan Sukuk dan bon konvensional bagi tempoh 1990-2011: (i) Keluaran Dalam

Negara Kasar (KDNK), (ii) kadar inflasi, dan (iii) kadar faedah. Keputusan wujud

kesan negatif yang signifikan keatas antara KDNK, kadar inflasi dan kadar faedah

dengan pengeluaran Sukuk. Basi bon konvensional. Hanya KDNK menujukan

hubungan yang negative dan signifikan.

Katakuci: Krisis Kewangan, Sukuk, bon konvensional, Pasaran Modal Malaysi

Ш

ACKNOWLEDGEMENTS

First, I would like to express my utmost gratitude to Almighty Allah for his creation and making me submissive to Him.

I would like to gratefully acknowledge the enthusiastic supervision of my project paper, by Associate Professor Dr. Jauhari Dahalan. I could not have imagined having a better adviser and mentor for my Masters project, and without his inspiration, stimulating suggestions, sound advice, guidance, and active participation in the process of my work, I would never have finished this project.

Next, I would like to extend my special thanks and gratitude to my beloved family, especially to my lovely mother, my father and my brothers, Noureddine, Abdulsalam, Mohamed and Issa for his providing financial and moral support throughout the journey of pursuing this master course. Thank you for all the support, guidance, and love given and the most important were the trust and belief in me throughout the years.

Finally I would also like to thanks a very special friends of mine, Dr. Madi Mouhamed, Dr. Massoudi Nabil, Dr. Belghith, Dr. Radouan Lamara, Dr. Toufik Badjdadj, Dr. Gichta, Dr. Tamer, Mr. Oussama Saoula, Hassan Labgaa, Abbas Ramdani, Taher Nid, Moussab Bey, Tarek Kacemi, Mouslim Damki, Boubkar Baba, Samir, Kamel, Khaled Bachbouch, Athman, DR. Hamza Lefkir, Abd Elgani Lefkir, Djamal Roubeh, Addel Bounagab, Kassimi Abd Hakim, Thyab Halouch, Bouaoun Abd Erahman, Lakhdari Nacereddine, Lakhdari Djamal, Karwan chklawi, Moussaoui Zohir, and many others.

TABLE OF CONTENT

| Per | mission to use | I |
|------|---|------|
| Abs | stract | II |
| Ack | knowledgements | III |
| Tab | ble of Contents | V |
| List | t of Tables | VIII |
| Tab | ble of Figures | IX |
| | | |
| CH | IAPTER ONE INTRODUCTION | |
| 1.1 | Background of the Study | 1 |
| 1.2 | Problem Statement | 3 |
| 1.3 | Research Objectives. | 4 |
| 1.4 | Research Questions | 4 |
| 1.5 | Significance of Study | 5 |
| 1.6 | Scope of Study | 5 |
| 1.7 | Structure of The Research | 6 |
| | | |
| СН | IAPTER TWO LITERATEURE REVIEW | |
| 2.1 | Introduction | 7 |
| 2-2 | Financial Crisis | 7 |
| 2-3 | Gross Domestic Product. | 10 |
| 2-4 | Inflation, Consumer Prices (Annual Percent) | 13 |
| 2-5 | Interest Rate | 14 |
| 2.6 | The Concept of Sukuk | 15 |
| 2.7 | Definition and History of Sukuk | 15 |
| 2.8 | Structure of Sukuk | 17 |
| | 2.8.1 Musharakah | 17 |
| | 2.8.2 Istisna | 19 |
| | 2.8.3 Mudaraba | 21 |
| | 2.8.4 Murabahah | 22 |
| | 2.8.5 Ijarah Sukuk | 23 |

| 2.8.6 A Salam Sukuk. | 24 |
|--|----|
| 2.9 The Islamic Capital Market In Malaysia | 25 |
| 2.10 Sukuk Issuances In Malaysia. | 26 |
| 2.11 The Core Weaknesses of The Sukuk Market and Future Challenges | 27 |
| 2.12 The Difference Between Sukuk and Conventional Bonds | 28 |
| 2.13 Summary | 30 |
| | |
| CHAPTER THREE RESEARCH METHODOLOGY | |
| 3.1 Chapter Introduction. | 31 |
| 3.2 Research Framework | 31 |
| 3.2.1 Framework | 31 |
| 3.2.2 Data Source. | 32 |
| 3.2.3 Hypothesis Development | 33 |
| 3.2.4 Hypothesis | 33 |
| 3.3 Procedure For Data Analysis. | 34 |
| 3.3.1 Descriptive Statistics of Dependent Variable | 35 |
| 3.3.2 Correlation Analysis; | 36 |
| 3.4 Regression Analysis. | |
| 3.5 Summary | 40 |

| CHAPTER FOUR DISCUSSION RESULTS AND ANALY | 818 |
|---|-----------------------|
| 4.1 Introduction. | 41 |
| 4.2 Illustrates The Descriptive Statistic | 41 |
| 4.3 Illustrates The Correlation | 42 |
| 4.4 Illustrates The Regression Statistic of The Variables Used. | 43 |
| 4.4.1 Sukuk Regression | 43 |
| 4.4.2 Conventional Bonds Regression | 44 |
| 4.5 Comparisons Between Growth of Sukuk and Conventional | Bonds (1990- 2011).45 |
| 4.6 Summary | 46 |
| CHAPTER FIVE CONCLUSION AND RECOMMENDAT | |
| 5-1 Introduction. | |
| 5.2 Overview of The Research Process | 47 |
| 5.3 Summary of Findings | 47 |
| 5.4 Conclusion | 49 |
| 5.5 Recommendations. | 50 |
| 5.5 Future Study | 51 |
| References | 52 |

LIST OF TABLES

| Table 3.2.1: Dependent and independent variables | 33 |
|--|-------|
| Table 3.2.2: Coefficient of Correlation (R) Interpretation | 37 |
| Table 3.2.3: Coefficient of Determination (R ²) | 38 |
| Table 4.1: Descriptive statistic | 41 |
| Table 4.2: Estimates of coefficients for the correlation model | 42 |
| Table 4.3: Estimation of coefficient for the regression model $-R$ and R^2 | 43 |
| Table 4.4: Estimates of coefficients for the regression model- t statistic | 44 |
| Table 4.5: Estimates of coefficients for the regression model-R and \mathbb{R}^2 | 44 |
| Table 4. 6: Estimates of coefficients for the regression model-t statistic | 45 |
| Table 5.1: Summary of finding | 48-49 |

TABLE OF FIGURES

| Figure 2.1: Musharakah Sukuk | 19 | |
|---|----------|--|
| Figure 2.2: Istisna Sukuk | 20 | |
| Figure 2.3: Mudarabah Sukuk | 22 | |
| Figure 2.4: Murabahah Sukuk | 23 | |
| Figure 2.5: Ijarah Sukuk | 24 | |
| Figure 2.6: Salam Sukuk | 25 | |
| Figure 3.1: The impact of (GDP), (INF), and (INT) on Sukuk and conventional bond.32 | | |
| Figure 4.1: Growth of Sukuk and conventional bonds in Malaysia 1990 to | o 201146 | |

CHAPTER ONE

INTRODUCTION

1.1 Background of the Study

The global financial crisis of 2008-2009 and was centred in the United States has brought an enormous impact on the global economy. As the asset bubble by a number of derivative financial instruments, among other causes, the subprime boom in the housing and banking crisis led to a domino effect on consumer and investment demand exploded. The housing crisis and quickly grew into a banking crisis, with investment banks and dealers first absorb the impact before it spread to the commercial banks (Krugman, 2009).

According to Mahani and Rajah (2009), the sharply contracting economy of the United States, sent ripples across export-dependent Asian economies, which began to face a contraction as a consequence. Hence, although the Malaysian economy was insulated from the direct effects of financial exposure because the new derivatives were not allowed into the country, the global financial crisis has cast doubt on the Government's plans to achieve vision 2020, due to a collapse in exports and a slowdown in foreign direct investment (FDI). The global financial crisis that has spilled from the financial sector to the real economy, including international trade in manufacturing commodities and service, in this case Sukuk has sometime lost the investment opportunities for Muslims that offer an expected return with low risk, because the majority of investment of opportunities is based on real estate transactions.

The contents of the thesis is for internal user only

REFERENCES

- AAOIFI, (2011). Sukuk Definition. Malaysia. Retrieved from http://www.nortonrose.com/knowledge/publications/16852/aaoifi-statement-on-sukuk-and-its-implications
- Alasrag, H. (2010). *Global Financial crisis and Islamic finance*. Egypt. Working Paper WP/4/10. Retrieved from http://mpra.ub.uni-muenchen.de/22167/1/global_crisis.pdf
- Alasrag, H. (2010). *Global Financial crisis and Islamic finance*. http://ssrn.com/abstract=1591563.
- Ahmad, W., & Radzi, R. M. (2011). Sustainability of Sukuk and Conventional Bonds during Financial Crisis: Malaysian Capital Market: *Global Economy and Finance Journal*, 4 (2), 33-45.
- Alias, Z, N., & Hussein, N. (2012). Sukuk issuance in Malaysia Capital Market. Retrieved from http://www.marc.com.my/home/userfiles/file/230312_BNM%20Annual%20Report%202011_FINAL_web.pdf
- Abidin, Z, M & Rasiah, R. (2009). The Global Financial Crisis and the Malaysian Economy: Impact and Responses. Retrieved from http://www.undp.org.my/uploads/undp%20report%20the%20global%20financial%20crisis%20and%20the%20malaysian%20economy.pdf
- Aziz, Z. A. (2007). *Malaysia's* experience in strengthening its market for global sukuk activities.retrived from www.kantakji.com/fiqh/Files/Markets/m132.pdf
- Bank Negara Malaysia & SCM. (2009). Malaysian Debt Securities and Sukuk Market. Retrieved from http://www.sc.com.my/eng/html/bondmkt/MalaysianDebtSecuritiesSukuk_2009.pdf
- Benamraoui, A. (2008). Islamic banking: the case of Algeria. *International Journal of Islamic and Middle Eastern Finance and Management*, pp. 113-131.
- Bernanke & lown. (1991). *The Credit Crunch*. New yourk.Working paper WP/2/91. Retrived fromhttp://www.brookings.edu/~/media/Projects/BPEA/1991%202/1991b_bpea_bernanke_lown_friedman.PDF
- Benamraoui, A. (2008). Islamic banking: the case of Algeria. *International Journal of Islamic and Middle Eastern Finance and Management*, (2),pp. 113-131
- Black, l. (2012). Head of Global Public Fixed Income Markets. Retrieved from http://www1.tiaa-cref.org/public/advice-planning/market http://www1.tiaa-cref.org/public/advice-planning/market http://www1.tiaa-cref.org/public/advice-planning/market http://www1.tiaa-cref.org/public/advice-planning/market http://www1.tiaa-cref.org/public/advice-planning/market commentary_market_commentary_articles/articles/mc_025.html
- CIMP, I. (2010). Growth of Islamic Debt Capital Market. Malaysia. Retrieved from www.cimb.com/index.php?ch=g2_ir_rnp&pg=g2...annual

- Fink, G. & Hrisoforova, S. (2006). *Credit, Bonds, Stocks and Growth in Seven Large Economies*. Working Papers WP/ Nr: 49. Retrived from http://fgr.wu-wien.ac.at/institut/ef/publicat.html
- Favara, G. (2003, June). An Empirical Reassessment of the Relationship between Finance and Growth. *Working paper wp/03/123*. Reteved from http://www.imf.org/external/pubs/ft/wp/2003/wp03123.pdf
- Global Islamic Finance Report, (2011). *islamic financial products under US Law*. Malaysia. Retrieved from http://gifr.net/pdf/gifr_2011.pdf
- Irwanto, W. (2009). Influence of Macroeconomic Variables and Yield of Designation Fee obligations of Sukuk. Jakarta. Retrived from http://www.academia.edu/297363/Review on Sukuk Researches Where Are We Now
- Kurgman, P. (2010) (Applied Economics Journal 17 (2): 78-87). The Return of Depression Economics and the Crisis of 2008. Retrieved from: http://www.journal.eco.ku.ac.th/upload/document/thai/20110951052251.pdf
- Malaysian Bond Market Guid. (2011). ASEAN+3 Bond Market Guide. volume 1 part 2. Malaysia.Retrieve from https://wpqr1.adb.org/.../ABMF%20Vol1 %20Sec%207_MAL.pdf
- Malaysian Bond Market Guid. (2011). ASEAN+3 Bond Market Guide. volume 1 part 2. Malaysia.Retrieve from https://wpqr1.adb.org/.../ABMF%20 Vol1%20Sec%207 MAL.pdf
- Maimunah, R. T. (2011). *Sukuk issuance in Malaysia*. Zawya report United Emarat Arab. Retrived from http://www.zawya.com/newsletter_bulletin/sukuk_qb _issue_09_1Q11-3.pdf
- Muhammad Al-Amine. (2008). Sukuk Market:Innovations And Challenges. *Islamic Economic Studies jurnal*, 15 (2). Retreved from http://www.irti.org/irj/go/km/docs/documents/IDBDevelopments/Internet/English/IRTI/CM/downloads/IES _Articles/Vol%2015-2..M%20Bashir%20Alamin--Sukuk%20Market%20 .Innovation.pdf
- Namara, P. (2010). *The market for bonds and Sukuk in 2009*. Zawya Report. United EmaratArab. Retrived from http://www.kantakji.com/fiqh/Files/Markets/587
 http://www.kantakji.com/fiqh/Files/Markets/587
- Papazian, V, A. (2010). *Central Islamic Trustee: Meeting Sukuk Market Challenges*. Retrevedfrom http://centralislamictrustee.com/sitebuildercontent/sitebuilderfiles/centralislamictrusteesukukmarketchallengeskeipr082010.pdf
- Rodney, W. (2006). Innovation in the structuring of Islamic Sukuk securities Islamic Banking and Finance. *2nd Banking and Finance International Conference*. Beirut: Lebanese American University

- Saudi Arabian Monetary Agency, (2007). *Sukuk issuance and interest rate*. Retrieved from:http://www.sama.gov.sa/sites/samaen/ReportsStatistics/Reports StatisticsLib/5600_R_Annual_En_44_2008_09_23.pdf
- Saad, M, B, N. & Mohamad, B, A, E, N. (2012). Sukuk In Malaysian Capital Market. *3rd International Conference On Business And Economic*. Golden Flower Hotel, Bandung, Indonesia: Isbn: 978-967-5705-05-2. Retrived from http://www.internationalconference.com.my
- Sulaiman, K, A. (2012). (*Sukuk Issuance in Saudi Arabia: Recent Trends and Positive Expectations*) Retrieved from Durham theses, Durham University. Available at Durham E-Theses Online:http://etheses.dur.ac.uk/3502/
- Syafirdi, R. H. (2006). *Effect of Interest Rates, Inflation, Exchange Rate on bonds market and sukuk*. Indonesia. Retrived from http://fis.uii.ac.id/images/la-riba-vol4-no2-2010-03-wafa.pdf
- Tariq, A. A. (2004). *Managing Financial Risks of Sukuk Structures*. Unitd Kingdom. Dissertation submitted in partial fulfillment of the requirements for the degree of Masters. Retrived from Loughborough University,. http://kantakji.com/fiqh/Files/Markets/c86.pdf
- UNCTAD. (2009). *Global Economic Crisis: Implications For Trade and Development*. Trade and Development Board. Retrived from http://unctad.org/en/Docs/wir2004 en.pdf
- Wafa, M. (2010). Analysis of Factors Influencing Sukuk. *Journal Economi Islam*, (2), 161-178.
- Weill, I. & Godlewski, C,J.(2011). *Do markets perceive sukuk and conventional bonds as different financing instruments?* BOFIT Discussion Papers 6. 2011. Retrieved from http://www.suomenpankki.fi/bofit/tutkimus/tutkimusjulkaisut/dp/Documents/DP0611.pdf
- World, B. (2012). *GDP growth (annual %)*. http://data.worldbank.org/indicator/NY.GDP.MKTP.KD.ZG /countries/HT-xj?display=graph.
- World Bank, (2011). Inflation, consumer prices (annual percent). Retrieved from http://data.worldbank.org/indicator/FP.CPI.TOTL.ZG
- Zubair, h. (2002). The 1997-98 Financial Crisis in Malaysia: Causes, Response, and Results. Islamic Economic Studies journal. (9), 2. Retrieved from http://www.irti.org/irj/go/km/docs/documents/IDBDevelopments/Internet/Engl ish/IRTI/CM/downloads/IES_Articles/Vol%209-2..Zuabir%20Hasan .The%201997-98%20Financial%20Crisis%20in%20Malaysia.pdf
- Zawya, (2011). *The Concept Of Sukuk*. United Emarat Arab. Retrieved from http://www.kantakji.com/fiqh/Files/Markets/587.pdf.