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**The Effects of Financial Integration on the Efficiency,
Profitability and Stability of the South African Banking Sector**

By

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Declaration

I hereby declare that this thesis has not been submitted in support of an application for another degree or qualification of this or any higher education institution, other than the University of Johannesburg, for any educational qualification whatsoever. I also declare that *The Effects of Financial Global Integration on the Profitability, Efficiency and Stability of the South African Banking Sector* is my own work and that all sources used or quoted have been indicated and acknowledged by means of complete references.

John-Baptiste Mabejane

February 2020



Dedication

This research is dedicated to my son, Mphuthi Letsema Mabejane and my daughter, Diphuthi Setsoto Mabejane. Be kind, be humble, and be ambitious.



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CHAPTER 1

Background and Contextualisation

1.2 The conceptualisation of the study

This study looks at the effect of global financial integration on the South African banking industry. Some studies have already been undertaken looking at the effect of global financial integration or comparing foreign banks and domestic banks. Most of these studies have been conducted on developed or developing countries. The South African banking industry presents an interesting field to study as they operate in a country that classified as a Newly Industrialised Country (NIC)².

Global financial integration is one of several legs of the broad concept of globalisation, which connect countries and their financial markets to each other. In the context of this study, global financial integration is seen as a product of foreign ownership and free movement of financial institutions between countries as well as the connection of financial markets across the globe. The establishment of blocks such as CIVETS (Colombia, Indonesia, Vietnam, Egypt, Turkey and South Africa), BRICS (Brazil, Russia, India, China and South Africa), the European Union (EU), the African Union (AU) and Southern African Development Community (SADC) serve as evidence of the forged global connectivity that enhances global partnerships and trade between countries. Other international entities that are key to the processes of the mentioned globalization and global financial integration include the World Trade Organization (WTO) and The Bank of International Settlement (BIS).

This study investigates the effect of global financial integration on the South African banking industry with a specific focus on the banking industry profitability, cost efficiency, stock performance and market liquidity conditions. Among others, these four mentioned concepts

² Newly Industrialised Country (NIC) is a term used to describe a country which is still classified as a developing country but is at the special advanced state of development, standing somewhere between developing and developed country

These events were followed by a series of wars between the Dutch settlers and the British Empire. In 1910, the British formed what was then referred to as the Union of South Africa while in 1934, South Africa became a state colony of the British Empire. The country only gained independence from the British Empire in 1961.

The first global trade platform involving South Africa and the Southern African region was established in 1889 between the British Cape Colony and the Orange Free State, which was then a Boer colony. This platform which was operating based on a customs union was subsequently joined by Basutoland (now known as Lesotho) and Bechuanaland (now known as Botswana), with the Natal colony also joining at a later stage.

Around the same time, another global trade platform was formed between the Transvaal Republic and Swaziland. In 1903, a much broader Southern African custom union was formed that included all the four colonies (Transvaal, Orange Free State, Natal and the Cape). Lesotho, Swaziland, southern and western Rhodesia and Botswana also formed part of this much broader platform. Further strengthening the global trade arrangement, in 1910, another custom union between members was signed, establishing a common tariff and free trade between the member entities. This arrangement was updated in 1969 when all the colonised entities had gained their independence. The relationship of South Africa with its external environment was, however, interrupted when the country was subjected to global trade sanctions because of the apartheid regime. It was only reintegrated with the rest of the world when apartheid was formally abolished with the first free, democratic elections in 1994.

Since its reintegration with the global world, South Africa has not shied away from participating in the international platform and forums. Among others, South Africa is currently a member of CIVETS and BRICS. It is a highly active member of the Southern African Development Community (SADC) and the Southern African Customs Union. It subscribes to the International Criminal Court and its banking sector is regulated by the principles of the Bank of International Settlements. South Africa is also a member of the WTO. Like the African Union, the WTO is one of the recognised bodies pioneering globalisation and has, among others, championed the signing of the Free Trade Agreement (FTA). This agreement is intended to promote global trade and openness of markets. The agreement also requires member countries to adopt policies that support international business, thus allowing foreign

2.4.3 Estimation strategy

This study estimates three models using the GMM. Model 1, model 2 and model 3 estimate the financial performance of the overall South African banking industry, the foreign and the domestic banks respectively, using ROA as the indicator of profitability. This study compares the profit persistence between foreign banks and domestic banks. It also compares which category of the banks has a quicker reversion to the mean. Accepting persistence character in profits presents an opportunity to use a dynamic model. Having a lagged dependent variable as one of the regressands presents possible endogeneity and heterogeneity problems. These two problems mean that the use of Ordinary Least Squares (OLS) and Least Squares (LS) would be biased and inconsistent as their use would contravene the fundamental assumptions of regression analysis which dictates that the right-side variables should be uncorrelated with the disturbance term. The use of instrumental variable estimators such as the GMM solves the problems associated with the dynamic structure of the model as they control for unobserved heterogeneity as well as the problems associated with the persistent nature of the dependent variable. The GMM has been widely used in banking profitability studies such as those of Ben Naceur and Omran (2011), Ćurak, Poposki and Pepur (2012) and Maudos and Solís (2009) in South Africa. It has also been used in ten Middle Eastern and North African (MENA) countries as well as Macedonia and Mexico.

In the family of GMM estimators, the study adopted the Arellano-Bover / Blundell-Bond system estimator which is well-suited for samples with a shorter period. The use of a dynamic model warranted the inclusion of the lagged variable of the dependent variable as one of the independent variables. This is accommodated by the ‘LAGs’ variables in all the models. The adoption of a dynamic model is motivated by the fact that this study subscribes to the notion that profits have a persistent character. The Wald test is used to assess the overall goodness of fit of the models, the Arellano-Bond AR(2) test is used to assess AR (2) in first differences while the Sargan test is used to detect over-identifying restrictions. The study also applied Arellano-Bond test to test for second-order serial correlation of the residuals.

The p-value of the Wald test indicates the acceptable goodness of fit in all models. The estimated coefficients are also stable, indicating that the two estimated models fit the panel

data fairly well. The Sargan test indicates no over-identifying restrictions and the Arrelano-Bond AR (2) test indicates no second-order serial correlation.

3 Empirical Results

The study presents the results of the estimated model below in table 2. The table presents 3 models. Model 1 is estimated using data based on the whole industry data, model 2 presents the result using foreign banks data while model 3 results are estimated using the domestic bank's data. As indicated in the preceding sections of this study, the method of analysis is the general methods of moments.



In model 3, the coefficients of the GDP and Market Rate variables are significant and carry a negative sign, indicating that if ring-fenced, the domestic banks' performance reacts inversely to changes in GDP and market rates. Other studies reporting a negative relationship between economic growth are those of Ramadan *et al.* (2011), Valverde and Fernandez (2007), Demirgüç-Kunt, Laeven and Levine (2004) and Tarus, Chekol and Mutwol (2012). Among others, the relationship between economic growth and bank profitability can be justified by the fact that when the economy is flourishing, the level of borrowing may decline as all the categories of borrowers may also flourish and may mostly be able to rely on internal funding. On the other hand, when the economy is at its worst, both the institutional and household financial position deteriorates. Both categories of borrowers may find themselves forced to rely on external funding hence increased bank profitability. This is only true if the capacity to service debt facilities is not wiped-out by the deteriorating economy.

3.1 Limitations and opportunities for future research

This study is conducted using data on commercial banks that are registered as foreign banks and domestic banks in South Africa. In the analysis, this study treated Amalgamated Banks of South Africa (ABSA) as a foreign bank because of its ownership structure. Unlike the other foreign banks, ABSA is an outlier in the analysis. It has fully adapted to the market and is operating exactly like the domestic banks. However, unlike other domestic banks, because of its ownership structure, it benefits from the support of the global links in the global arena. This study compares the performance of foreign banks and domestic banks in light of profitability. The same analysis should also be done in terms of cost-efficiency as this is one of the key benefits of global financial integration for hosting countries.

3.2 Conclusions on this chapter

This chapter of the study looks at the effect of global financial integration on the profitability of the banks operating in South Africa. The chapter looks at whether the home field advantage

hypothesis holds in the context of South African banking industry by comparing the profitability characteristics of domestic and foreign banks in South Africa, which is a newly industrialised country in an African setting. The chapter looks at whether the performance of foreign and domestic banks is affected in the same way or differently by changes in economic, industrial and bank-specific factors. In this chapter, the study further scrutinises the effect of foreign and domestic banks on each other as well as the effect of extended competition due to the presence of foreign banks in the country. In general, the chapter investigates whether adhering to the requirements of the WTO's GATS has been detrimental or beneficial to South African banks.

The results of this chapter demonstrate that there is no significant difference in the profitability of foreign and domestic banks operating within the South African banking sector, thus nullifying the home field advantage hypothesis. However, the results have shown that although the domestic banks have failed to dominate the foreign banks on their own turf, at least they can compete fairly with foreign banks in terms of profitability. The foreign and domestic banks operating in the South African market do not affect each other's performance negatively. This finding leads us to conclude that conforming and subscribing to the requirements of WTO and the overall need to open the market for foreign entry has not significantly affected the local banks in South Africa. The proponents of global integration purport that financial globalisation should lead to greater liquidity in the markets. Among others, greater market liquidity is supposed to be achieved through an increase in the number of banks participating in the interbank market as global financial integration leads to the entry of foreign banks in the local market. The results of this study show that an increase in the number of banks operating in the industry leads to a decline in profitability. The findings of this study suggest that the benefits derived from the expanded base in the interbank market are outweighed by the disadvantages of increased market competition.

CHAPTER 3

The Effect of Global Financial Integration on the Efficiency of the South African Banking Industry

3.1 Introduction

This chapter analyses the effect of cost-efficiency on the South African banking industry. Cost-efficiency and profitability are different yet related concepts in business management. While cost-efficiency can lead to profitability, the reverse is not true. Cost-efficiency is critical in ensuring sustained profitability and for the creation of competitive advantage for businesses. The concept of cost-efficiency is grounded in the business strategic philosophy of being able to do more for less, which is a strategic concept technically referred to as the concept of economies of scale. Ideally, an institutional strategic combination of resources should yield the maximum possible output with the minimum possible amount of resources consumed in the process of production. In the modern era, institutional cost-efficiency has become increasingly imperative as the business landscape continuously evolves and markets shift from a localised to a more globalised state. Global integration has among others intensified market competition in economies as trade barriers between countries have continued to collapse.

The South African banking industry is well integrated with the rest of the world. In terms of banking, it hosts 7 foreign-controlled banks, 15 local branches of foreign banks and 36 approved local representative offices. The South African banking industry is well developed and compares favourably with those of developed countries. South Africa has further shown its commitment to the global arena by participating in different international platforms such as CIVETS and BRICS. The country hosts one of the largest capital markets among the emerging economies and is undoubtedly one of the most developed on the African continent. Appendix 8 indicates that the level of the country's financial integration has been on the rise from the opening period of this study,

right to the closing period. The trend of the surge only saw a decline in the increase in 2015 but was followed by a quick recovery in 2016, carrying on its normal trend.

The WTO, along with other key proponents of global integration, indicate that the integration process should present significant benefits to the participating countries and their markets. The process should also provide opportunities for investment portfolio diversification, facilitate risk-sharing mechanisms and ensure that financial markets are relatively unrestricted and continue expanding. The broadening of the scope of financial markets should eliminate barriers to financing constraints and decrease the cost of capital (Colacito & Croce, 2010). Andries and Capraru (2013) maintain that global financial integration is essential for the growth of competitive, efficient and stable financial markets. Kumbhakar, Lozano-Vivas, Lovell and Hasan (2001) point out that financial deregulation, which is also one of the key elements of global financial integration, has a positive effect on both banking efficiency and bank productivity.

This chapter seeks to establish whether the process of global financial integration has yielded any added benefits in terms of cost-efficiency for the South African banking industry. The study analyses the effect of global financial integration and other factors related to globalisation such as a change in the market structure on the cost-efficiency of the commercial banks operating in the South African banking industry. The study compares cost-efficiency between foreign and domestic banks and determines economies scales of the South African banking industry in the face of financial integration.

Most bank cost-efficiency studies have been conducted in developed countries. There are studies conducted in South Africa exploring the efficiency of banks such as Ncube (2009). The study analyses the cost-efficiency of banks in the country using data on domestic banks from 2000 to 2005. Unlike the study at hand, Ncube (2009) uses data from an era well before the period of the global financial crisis. Following the global financial crisis, there was a significant shift in the banking business and operational philosophy, calling for adjustments in the overall risk management and cost strategies of banks. Moreover, Ncube (2009) study does not conduct a

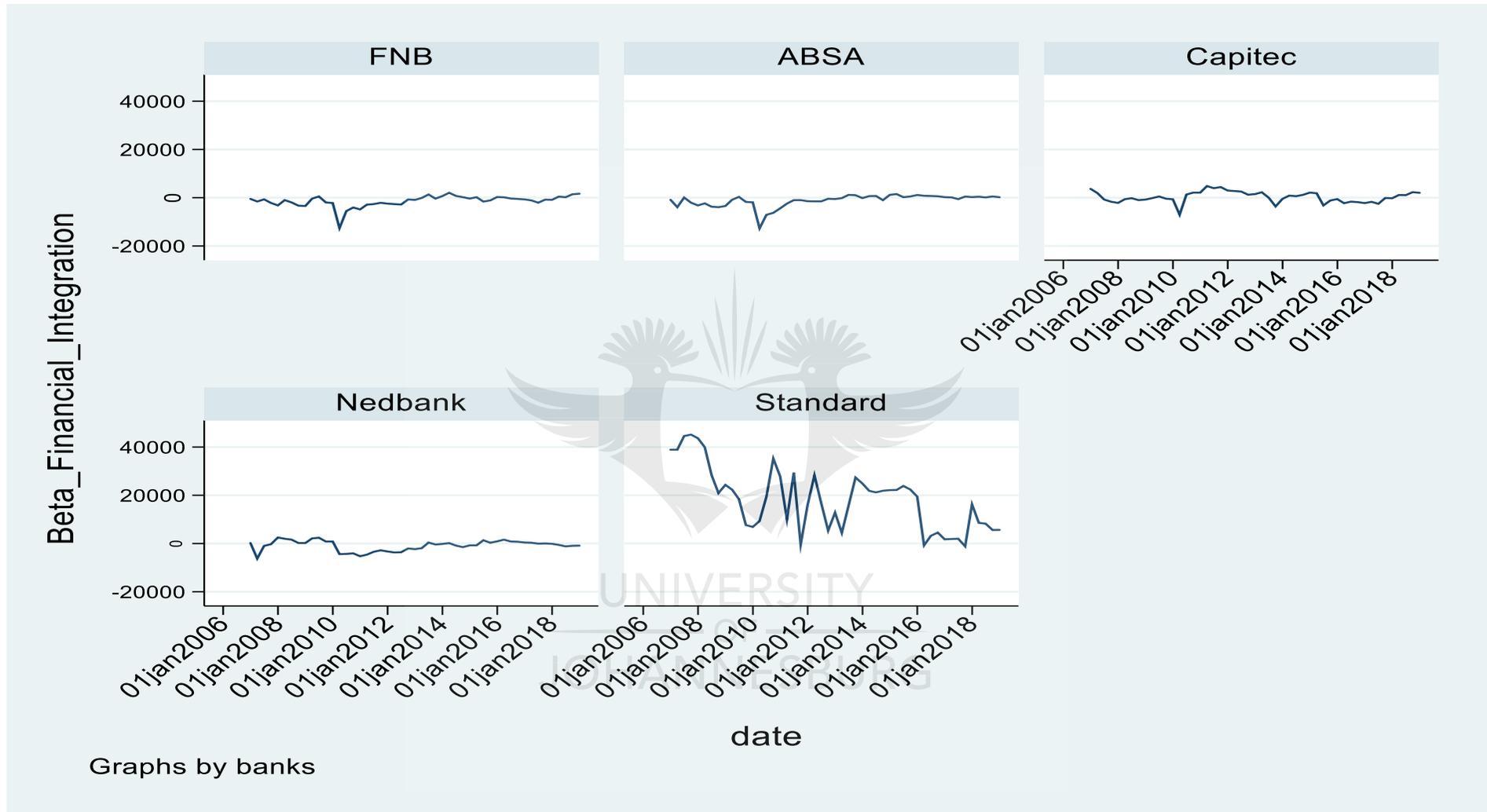


Figure 3: Financial Integration Beta Trend by Banks

CHAPTER 5

The Effect of Global Financial Integration on South African Banks' Funding and Market Liquidity

5.1 Introduction

Liquidity risk and its management are critical concepts in the sphere of modern banking and the field of finance in general. The need for discussions on these risks, especially in banking, became even more imperative during and after the 2007-2009 global financial crisis. After the global financial crisis, there was a need to revisit and revise the Basel Accord II as it was thereafter deemed inadequate in some areas. The revised version of the accord was later put in place, countries soon after making commitments on adopting the new accord. South Africa undertook to undertake the implementation. The process of a global financial crisis is to a large extent the product of globalisation and its consequent elements such as international trade and global financial integration. It is the financial and trade links between countries that provides a passage for transmission of liquidity shocks across the globe. The objective of this chapter is to investigate the effect of global financial integration and its related elements such as the financial crisis, international business cycles, exchange rate volatilities and increased market competition, all of which result from the collapse of trade barriers between countries on the liquidity conditions of the South African banking industry. The study also looks at the effect of capital adequacy, which is the main substance driving Basel Accords on the liquidity of the banks in South Africa.

According to the South African Association of Banks overview report of 2014, the banking industry hosts 17 registered banks, 2 mutual banks, 14 local branches of foreign banks, 2 cooperative banks and 43 foreign banks with approved local representative offices. The South African banking sector is legislatively well regulated, its regulation subscribes to the requirements of the Bank of International Settlements (BIS) regulatory framework which ensures standards guaranteeing the overall safety, soundness and stability of banking systems

across the globe. South Africa has undoubtedly attempted to adhere to the series of regulatory accords and the respective amendments instituted by BIS both in the current period and previously. The South Africa banking sector authorities and the commercial banks committed to maintaining January 2018 as a deadline for implementation of the relatively newer Basel III Accord. The presence of foreign banks and foreign branches operating in the country's banking sector is a good indicator that South Africa operates a fairly open economy. The country's involvement in global leadership and its various memberships of international entities such as the G20, CIVETS and BRICS are other good indicators of South Africa's commitment to the global world.

Among others, global financial integration presents opportunities for portfolio diversification, reducing the cost of stock and reducing financing constraints (Colacito and Croce, 2010). Another major benefit of global financial integration is financial deepening and ease of access to capital as integration facilitates the free movement of capital across economies. As trade barriers collapse and restrictive financial boundaries dissolve, banks and other types of financial institutions are exposed to a much-broadened pool of capital funding and are presented with more alternative mechanisms for absorbing liquidity pressure. However, the WTO, which has been championing the creation of a fair platform for international trade, promotes fair and undiscriminating laws and regulations on foreign and domestic companies. WTO requirements also facilitate the entrance of foreign banks and other companies into domestic markets.

Foreign bank market entrance may lead to increased market competition. Keeley (1990) asserts that increased market competition can lead to the fragility of markets. Increased market competition by default has a negative effect on business profitability. In contrast, Boyd, Nicoló and Jalal (2005) contend that a more competitive market environment yields stability and that foreign bank entrance may reduce market concentration, thereby enhancing market efficiency.

Banks are functionally different from other types of business entities. Foreign bank entrance and ownership may present benefits to the domestic banking industry by boosting the completeness and efficiency of the interbank market. Financial integration affects banks in two

ways – by affecting what could be referred to as the funding liquidity risk and the market liquidity where the latter specifically points to the ease of trading of shares in the market. In the context of this study, the former specifically refers to the institutional ability to make financial commitments in a timely and cost-effective manner while the latter refers to the ease and cost-effective trading of the South African commercial bank stock in the market.

There is a limited amount of research on liquidity risk on South African banks and there is no research that specifically looks at the effect of financial global integration and its related factors on the liquidity conditions of the banks operating within the South African market. Sufian and Kamarudin (2016) incorporate some elements of globalisation in their analysis of the determinants of the performance of South African commercial banks. Although their study has globalisation at its core, it specifically focuses on performance in terms of profitability using (ROA) as a proxy for performance. The study at hand looks at the effect of the elements of globalisation on bank liquidity, not on bank profitability.

Another study that partially looks at what determines liquidity in South African commercial banks is that of Kumbirai and Webb (2010). Using financial ratios analysis, among others, the study investigates the effect of the global financial crisis on the funding liquidity of the banks operating in South Africa using data from 2005 to 2009. The financial ratio analysis methodology has a limitation as its results cannot show a cause and effect relationship which can be provided by regression analysis, which is the method used in the current study.

Esterhuysen, Vuuren and Styger (2012) investigated the effect of the global financial crisis on liquidity creation within the South African banking sector. They used data from 2004 to 2009 on eight banks listed on the Johannesburg Stock Exchange (JSE) using a ‘cat fat’ measure. Like Kumbirai and Webb (2010), their study only focused on the impact of the global financial crisis on liquidity and ignored the other important factors such as the direct effect of global financial integration as a variable and international business cycles. Kumbirai and Webb (2010) maintain that the global financial crisis resulted in low funding liquidity in South Africa. This current study, consistent with the studies of Baxter (2009) and Maredza and Ikhede (2013) alludes that the South African banking sector was relatively immune to the effects of the 2007-2009 global

Table 8: Definitions of Variables Liquidity Models

Variable Notation	Variable	Description	Source
Dependent Variables			
Fundliq	Funding Liquidity	$\frac{Loans}{Total Assets}$	Bankscope
Marketliq	Market Liquidity	Closing Price Less Opening Prices	INET BFA
Independent Variables			
MS	Money Supply	Indicates economic liquidity	Reserve Bank
FININT	Global financial integration	Net foreign asset divided by gross domestic product	Reserve Bank
EURZARXrate	Exchange rate	Zar/Euro	Reserve Bank
FINCRIS	Global Financial Crisis	A dummy variable taking a value of 1 during a period of the financial crisis, otherwise 0	
INTBUSCYCLE	International Market Economic Cycles	Change in economic growth (change in GDP) in OECD countries	INET BFA
DOMBUSCYCLE	Domestic Market Economic Cycles	Change in economic growth (change in GDP) in South Africa	INET BFA
HHI	Herfindahl-Hirschman Index (HHI) calculated on Assets	Measures market concentration	Bankscope
CAPADEQ	Total regulatory capital	Measures capital adequacy	Bankscope
LNTA	Log (total assets)	Indicates Size	BankScope

The market liquidity conditions of a banking industry can also be determined by the broader economic liquidity conditions prevailing in the country. The money supply is used in this study as an indicator of economic liquidity conditions. The results indicate a negative association between the money supply variable and the funding liquidity while it indicates a positive association between money supply and the market liquidity conditions. This implies that an expansionary monetary policy would reduce funding liquidity pressure on commercial banks. Equally, the results also indicate that an expansionary monetary policy would have a positive effect on the market liquidity of the banks. Other studies with similar results include those of Apergis and Eleftheriou (2002) on Greek stocks and Aspren (1989) on data stock prices from a panel of ten European countries.

Global financial integration broadens markets by allowing international economic agents to participate in markets that are otherwise not their own. The stability of exchange rates between countries thus become critical in determining the level of trade participation. The results of this study indicate a negative significant association between the Euro/Rand exchange and the market liquidity of commercial bank stocks. The results imply that weakening of the Rand against the Euro significantly enhances the market liquidity of commercial bank stocks. When the Rand depreciates against other international currencies, it becomes relatively cheaper for international investors to buy stocks and other assets in South Africa.

5.6 Opportunities for further research

There are critical elements of liquidity risk and banking that this study has not attempted to answer. The results of this study have indicated the importance of the international environment and its effect in determining both funding and bank stock market liquidity in the context of the South Africa banking sector. The presence of foreign banks in local markets is one of the major indicators of the level of global openness state of a country. However, such presence creates a passage, paving the way for the transmission of international liquidity shocks into local markets. There is a need to further analyse and establish the disadvantages and opportunities presented by global financial

integration and the concomitant entry of foreign banks. Understanding the magnitude of the contagion effect between domestic banks and foreign banks is critical.

5.7 Conclusions on this chapter

In this chapter, the study investigated the effects of global financial integration on the funding and market liquidity of banks operating in South Africa. The results of the study indicated that global financial integration, global financial crisis and market concentration do not have any significant effect on the funding liquidity of South African commercial banking industry. The study also uncovered that an expansionary monetary policy reduces both funding and market liquidity pressure in the South African banking industry. Global financial integration, the global financial crisis and economic growth in the international environment indicating economic cycles have been found to inflict a positive effect on the South African commercial banks' stock market liquidity. South Africa is currently one of the dominant countries in Africa, advocating all forms of trade interactions among fellow African countries, it is also a member of the G20, CIVETS and BRICS. Global financial integration has a positive effect on market liquidity and suggests that if the national policy objective is to achieve greater market liquidity, the country should adopt the policies that embrace global financial integration.

From January 2007, South Africa embarked on the implementation of the more stringent and conservative BIS Basel III regulation reform. The Basel III accord emphasis on banks holding and reserving capital to counter and absorb losses as and when they occur. The accord further prescribes the quality and quantity of capital to the banks have to maintain periodically. This study has shown that increasing the quantity of capital in response to the regulatory requirements is beneficial to the industry as it improves on the funding liquidity conditions of the banking industry in the country.

each other's profitability. At a much broader level, for the case of newly developed countries, the performance of foreign banks and domestic banks was not different and the two categories of banks were found to compete fairly.

The study further provided evidence that foreign and domestic banks adopted different operational business strategies and that, there are indeed discriminating factors determining the financial performance of these two categories of banks. The domestic banks demonstrated an upper hand in managing factors such as liquidity and credit risk, thus indicating that the home field advantage hypothesis did hold for traditional banking business risks. However, for risk emanating from the banks' external environment, the results were less conclusive. The results further indicated that foreign banks are passive to changes in domestic economic conditions. This should not necessarily be seen as a weakness as it could simply be a matter of a choice of the strategy adopted by the foreign banks.

The study results revealed that unlike their foreign counterparts, domestic banks are affected by business cycles risk and inflation risk. The results further indicated that the domestic banks are superior in anticipating inflation and making the necessary strategic adjustments to stay profitable. However, the domestic banks indicated a weakness in their ability to make adjustments to their asset and liability books to absorb the pressures of changes in money market rates whereas their foreign counterparts were immune to such changes.

In terms of national policy on international trade, the findings indicate that the open trade policy which South Africa is gearing towards as it adheres to WTO requirements has not inflicted any significant disadvantages on the profitability of the South African banking industry. Although national policies should continue promoting global integration, studies of this nature should be conducted continuously to determine the extent of the effect of financial integration on the country's banking industry, as this could change over time.

In Chapter 3, the study focused on the effect of global financial integration and other global elements on the efficiency of the South African banking. By default, allowing foreign bank entry into the South African banking sector increases the level of competition in the market. The chapter examined the effect of competition on the cost-efficiency of the banking industry and sought to determine which banks were more efficient between the foreign and domestic banks. Most importantly, this chapter looked at whether economies of scales still exist in the South African banking industry.

The findings indicated that financial integration significantly increased the costs in the South African banking industry. The study also uncovered that, when market competition decreased, the costs in the banking sector also decreased. Even though the study has found no significant difference in the profitability of the foreign banks and the domestic banks as reported in chapter 2 of the study, in chapter 3, the study uncovered that foreign banks are more cost-efficient than their domestic counterparts. This established inconsistency is possible. Although the concept of efficiency and profitability are related to a reasonable degree, they can also occur independently. A firm can be cost-efficient without being profitable, in the same breath, a firm can also be profitable without being cost-efficient. The findings allowed the study to rule in favour of the global field advantage hypothesis for the case of cost-efficiency.

China and the US are currently the world biggest global players and they are also South Africa’s biggest trading partners. The two countries are currently in the middle of a trade conflict. Through their trade association with South Africa, this conflict may affect South Africa and all its different sectors. This study sought to establish and compare the connectivity of the South African banking industry to both China and the US. Amidst this conflict between the two countries, South African policymakers must understand these relationships for national policy planning. This study specifically looked at how the Chinese and US markets influence the performance of the stocks of banks operating in South Africa. The findings established that the South African stock market was synchronised with both the US and the Chinese global markets, however, the Chinese influence on the performance of commercial banks’ stock was greater than the US influence. The findings also reveal that commercial banks’ stock performance was directly connected to the economic

conditions in China. While South Africa must nurture its relationship with both China and the US for economic and strategic reasons, the study has confirmed that policymakers should prioritise on nourishing the relationship with China.

The literature points out that improved liquidity conditions are one of the key benefits of global financial integration. This study analysed this concept, considering the effect of financial integration on both the market liquidity and the funding liquidity of the South African banking industry. The findings revealed that global financial integration has a positive effect on the South African bank stock market liquidity condition. The study has however also revealed that global financial integration has not brought any added benefits nor detriments to the South African banking sector funding liquidity situation. The results further indicated that there is a direct, significant association between international market economic conditions and the market liquidity of South African commercial banks' stocks. During periods of high economic growth in the international environment, the market liquidity of the South African banks' stocks improves. This study has provided evidence that being a part of a global world and subscribing to the terms of free trade has contributed positively to the betterment of the South African banking sector. The findings of this study demonstrated that if the national policy goal is to enhance bank-related stock market liquidity, the country should embark on policies that embrace global financial integration. The study further provided evidence that expansionary monetary policies are good for improved banks' stock market liquidity and the funding liquidity.

The South African banking industry conforms to the BIS regulatory standards and requirements. Chapter 5 of the study provided evidence that ensuring capital adequacy has a positive effect on the liquidity conditions of the South African banking industry. Chapter 2 of this study has also indicated that liquidity risk exposure has a negative significant effect on the profitability of the South African domestic banks. However, the results of the chapter have shown that liquidity risk exposure has no significant impact on the financial performance of the foreign banks operating in the country. Capital adequacy was not included in the profitability analysis models because its data could not adequately fit in the model without causing econometric distortions. Using information provided by chapter 5 on the relationship between capital adequacy and liquidity conditions and

chapter 2 on liquidity risk and profitability, with a reasonable probability of accuracy, it can be deduced that implementation of the Basel III will improve liquidity conditions and profitability of the South African banking industry. The significance and validity of the made inference is biased and limited to the situation of the domestic banks as foreign banks' profitability is not affected by their liquidity risk exposure.



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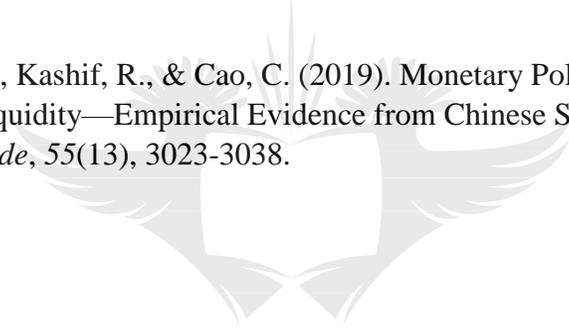
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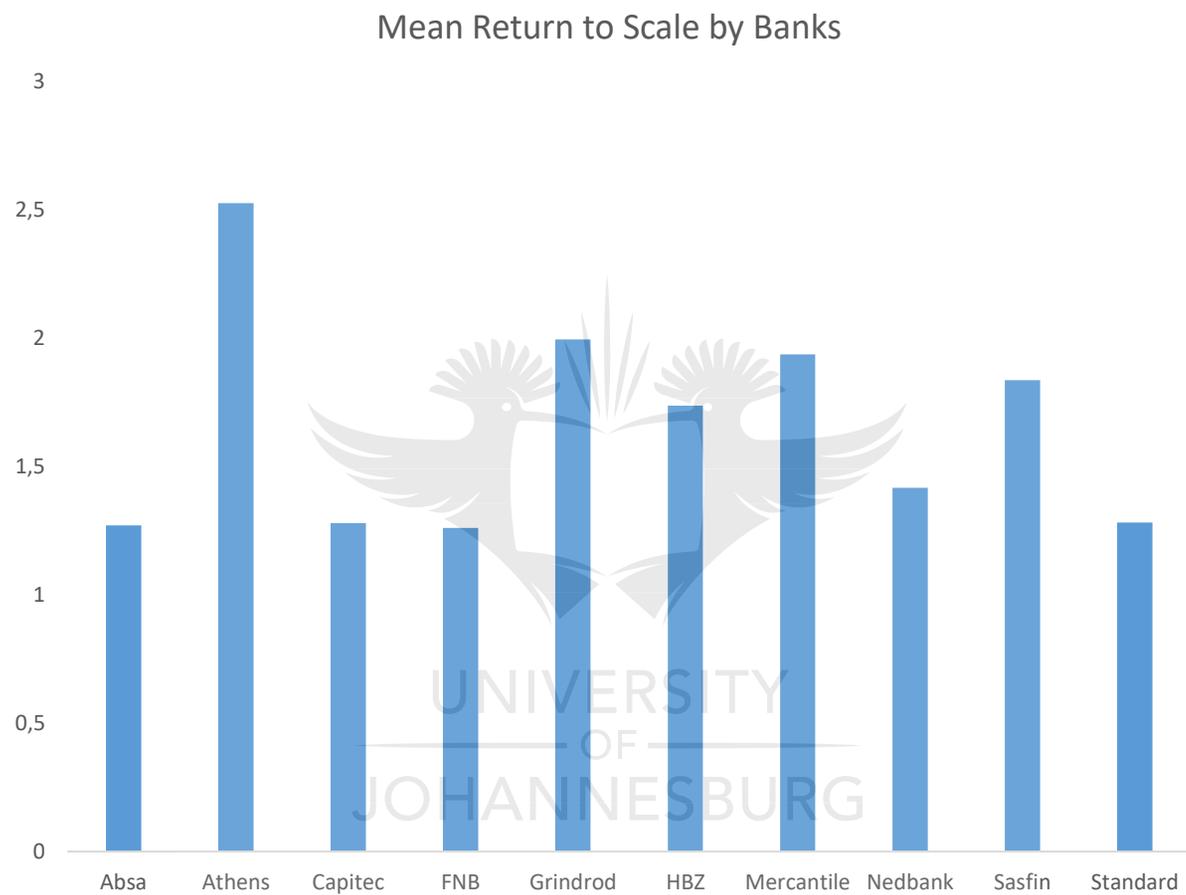
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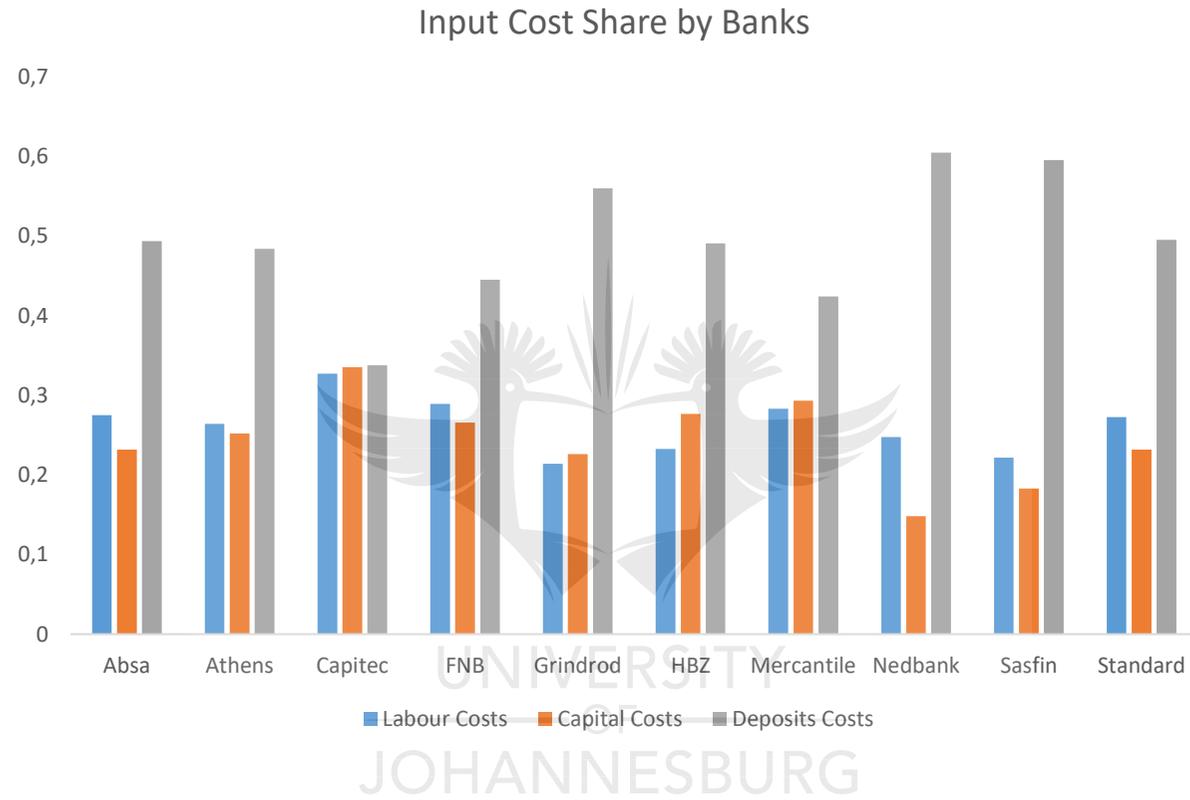
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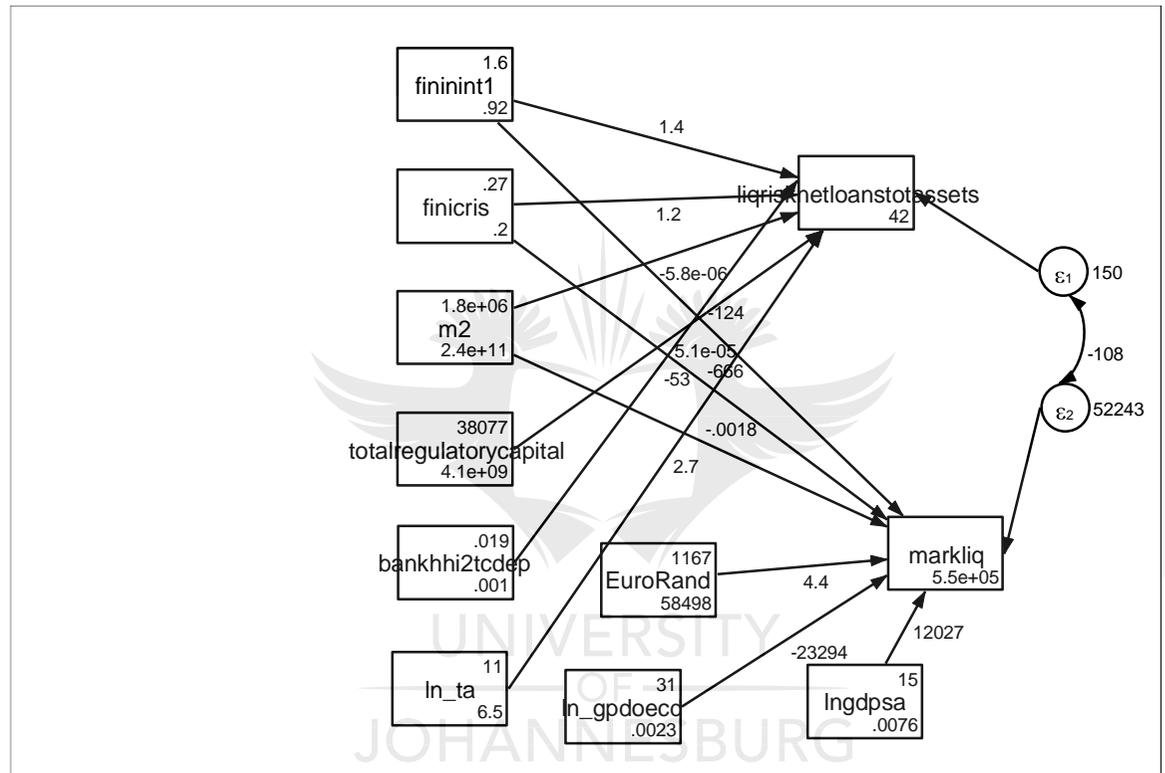


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Appendix 5: Mean Return to Scales by Banks







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