Banks Business Models, Risk Management Systems And Small And Medium Enterprises Financing Proclivity In Zimbabwe

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Abstract

The need to create sustainable ways of generating profits has put substantial pressure on banks to reinvent their business models in the post-global financial crisis era. The objectives of bank managers, which include profit maximization, essentially influence the bank's lending behavior, scale, choice, and timing. Among the constraints that small and medium businesses face is limited access to financing. An increase in bank involvement in the financing of small and medium enterprises is critical for the survival of the sector. Given the widespread heterogeneity in banks business models globally, this study, grounded on the Portfolio Management Theory, investigates how diversity in business models affects bank risk management systems and their proclivity to small and medium enterprises lending. Structural equation modeling, a confirmatory, multivariate technique, was employed to analyze the causal relationships between these variables, starting with a pictorial representation of the variables. The strong relationship between the variables under study suggests that business models and risk management systems are key components in the decision to lend to small and medium enterprises. As such there is need for banks to reconsider their business operations mechanisms in order to accommodate the small and medium enterprises sector.

Keywords: Business Model, Risk Management, SME Financing, Financial Performance, Value Creation

1. INTRODUCTION

The need to create sustainable ways of generating profits has put substantial pressure on banks to reinvent their business models in the post-global financial crisis environment (Kok, Mór & Petrescu, 2016). In addition, globalisation and changes in the regulatory and monetary policies also contribute to the need to shift a banks' business models (Gehrig, 2015). In recent years, banks business models transformed and became more heterogeneous than ever before and this is predominantly apparent in global banks (Hryckiewicz & Kozłowski, 2017). For example,

Asian banks underwent a remarkable shift in competitive conditions and strategy, because of both the Asian financial crisis of 1998

and the global financial crisis (Olivero, Li, & Jeon, 2011). Over and above bank-specific changes that occurred, financial deregulation and innovation also led to transformations of the credit markets and the bank lending channels (Perera, Ralston, & Wickramanayake, 2014). The asset-liability structures of international banks show investment banking models that comprise primarily of trading assets and market funding, while other banks have preferred to concentrate on different strategies (Hryckiewicz & Kozłowski, 2017). Because of the general increase in the level of liquidity risk, banks have also grown to favour 'safe loans', thereby alienating SMEs, who already suffer from under diversified sources of finance (Holton, Lawless & McCann, 2011; Ivashina and Scharfstein, 2010). Most banking institutions highlight factors such as unavailability of collateral, failure to prove creditworthiness, insignificant cash flows, lack of sufficient credit history and poor and undeveloped bank-borrower relationships as factors that make it difficult for them to advance financing to SMEs (Ardic, Mulencko & Saltane, 2012; Osano & Languitane, 2016). In addition, management of risk is also an important factor in lending decision, since risks that affect banks may affect the economic performance and professional reputation of the firm as well as environmental, safety, and societal outcomes (Rebelo, Silva & Santos, 2017).

A business model specifies how a firm will generate revenue from the provision of products and services hence, it defines how a business will create and capture value (Boons and Lüdeke-Freund, 2013). It defines what benefit a business will bring to customers; how it will deliver the benefit, and how it will create value (Teece, 2010; Chesbrough & Rosenbloom, 2002). While the notion of business model arose from competition-oriented business environments, it is imperative that all businesses to incorporate business models fundamental components in their strategic planning (Ranerup, Henriksen and Hedman, 2016). Several empirical studies have been carried out focusing on the relationship between business model and factors such as capital (Wheelock & Wilson, 2000), operational efficiency (Kwan & Eisenbeis, 1997), sources of finance (Demirgüç-Kunt & Huizinga, 2010), securitisation and financial markets (Mian & Sufi, 2009), corporate governance (Laeven & Levine, 2009) and diversification (Stiroh, 2010). Given the widespread heterogeneity in banks' business models globally, this study poses the question, how does diversity in business models affects bank risk management systems and SMEs lending proclivity. Existing literature has tended to define banks business models basing either on a relative examination of balance sheets (Blundell-Wignall & Atkinson, 2010) or on group analysis on single assets and liability transactions (Ayadi & de Groen, 2014). However, such methods fail to incorporate the influence of non-financial information in the crafting of banks business models. In addition, the methods do not capture the socioeconomic and other aspects like customer relations, value creation and environmental factors, that are part of a bank's business model. While there is almost ample research seeking of clarify the business models construct, their significance in relation to strategic decision making and the creation of value remains unresolved (Casadesus-Masanell and Ricart, 2010; Teece, 2010). Research is still limited regarding the influence of business models and risk management systems on the lending decisions of banks towards SMEs.

2. LITERATURE

2.1. Theoretical Foundation

This study is grounded on the Modern Portfolio Theory (MPT) developed by Harry Markowitz in 1952. The theory argues that there is an unlimited number of "efficient" portfolios that occur along the efficient-frontier curve which consists of those portfolios that either maximise return

or minimise risk (Todoni, 2015). The MPT therefore advocates that firms minimize portfolio risk on a specific expected return by properly deciding on the essentials of the portfolio (Markowitz (1952). It is against this advocacy to the portfolio theory that this research seeks to investigate the influence of business models on lending decisions while considering the moderating role of risk management systems.

2.2. Business Models

The notion of business models has gained growing interest among management practitioners and academics since the mid-1990s (Huijben and Verbong, 2013). Understanding how to develop a suitable business model has become integral for a firm to remain competitive and operate profitably (Porter, 1996). Literature on business models has focused predominantly on the way in which businesses organize themselves to create and compete from their activities (Bolton & Hannon, 2016). Therefore, a business model, which represents how a business creates, delivers, and captures value, is the logic behind the creation of both public value for society and revenue for the business (Janssen and Zuiderwijk, 2014). There are generally nine business model 'building blocks' namely key partners, key activities, key resources, customer value proposition, customer relationships, channels, customer segments, cost structure and value capture (Osterwalder and Pigneur, 2010). The way businesses interpret these business model dimensions determines its sustainability (Rauter, Jonker and Baumgartner, 2015). It becomes an abstract tool that describes the interrelated activities in the process of interacting with customers, associates and merchants and it determines how successful a business creates, captures, and delivers value (Osterwalder & Pigneur, 2010; Bocken, Short, Rana and Evans, 2014; Zott and R. Amit, 2010). According to Boons and Lüdeke-Freund (2013) a basic business model outline is a combination of value propositions, customer interface and the financial model and this allows for creation of a competitive edge.

In essence, a business model is a description of the benefits that a venture hopes to deliver to customers, how it will deliver and value will be captured in the process (Chesbrough and Rosenbloom, 2002). A business model pronounces the logic, data, and other indications as to how a business generates and brings value to customers and it is only when a company identifies means of capturing value that they can bring benefits to their customers through innovation (Teece, 2010; Friedrich von den Eichen, Freiling and Matzler, 2015). The determination of how a firm delivers value is central in designing a business model (Teece, 2010; Boons and Lüdeke-Freund, 2013) and the ability create and capture value is well-defined by a firm's business model (Øiestad and Bugge, 2014; Baden-Fuller & Morgan, 2010). Firms create their business models in response to changes in technologies, regulatory frameworks, competitor behavior and customer demands (De Reuver, Bouwan & Haaker, 2009).

2.3. Risk Management Systems

Steinherr (1998) considers risk management to be one of the most significant innovations of the 20th century. The decision theory states that risk is any uncertain component of an action, event or a process that has potentially detrimental and irreversible effects (Oprean, 2014). The occurrence of the global financial crisis in 2008, whose consequences were regarded as the worst since the Great Depression, has put financial institutions under the microscopic lens of policymakers and financial economists (Ibrahim, 2016). There some various forms of risks that affect the operational processes of firms including quality risks, environmental risks, health and safety risks and information security risks and firms must strive to create healthier operational environments where risks is minimized (Qi, Qingling, Wei & Jine, 2012). Nowicki (2013) suggests that a critical component of organisational strategy is the minimization of business risk to levels that ensure the competitiveness of the firm in the market. The identification,

assessment and minimization of hazards and risks should be aimed at mitigating the impact risk on operations, products and services, infrastructure, and the business (Rebelo & Santos, 2014). The process of risk management is aimed at identifying and assessing risk with the aim of applying suitable methods to reduce the negative effects of risk and help firms better manage their operations (Tohidi, 2011).

There is a wide range of factors that are considered in risk management from the economic, economic, political and competitive, to the level of technological and financial development (Oprean, 2014). The overall objective of risk management is to provide the firm with the much needed information to lessen risks and alleviate the negative impact of risk on the firm's activities and stakeholders (Rebelo, Silva & Santos, 2017). In addition, Agarwal and Hauswald (2010) recommend that progression in technology related to credit scoring permits banks to overcome limitations in lending as well as hardening soft information. Such rating-based credit risk assessment models have been widely by financial institutions in granting loans (Guo, Zhou, Luo & Xiong, 2016). Risk management activities include the selection and implementation various measures aimed at modifying the risk the business is likely to face (Szczepański & Światowiec-Szczepańska, 2012). The major activity in risk management involves limiting risk through controlling, and the other activities include risk evasion, risk transfer and the use of insurance to finance risk (Chapman, 2008). The effectiveness of the control mechanisms is measured by the extent to which a risk is eradicated or limited after the introduction of the measures. Measures of risk in banks include loans-to-assets ratio and the equity to assets ratio which measures the general capital strength in a bank while indicating the bank's capital adequacy and stability level (Paulet, Parnaudeau & Abdessemed, 2014).

2.4. SME Lending Decisions

Small and medium enterprises (SMEs) contribute significantly to a country's economic growth (Paul, Parthasarathy and Gupta, 2017). SMEs worldwide are responsible for the creation of many jobs and income opportunities for the poor thereby contributing to poverty alleviation and economic growth (Ayyagari, Demirgüç-Kunt and Maksimovic, 2011; Edoho, 2015). Like many developing countries, Zimbabwe is experiencing a significant rise in the number of SMEs in recent years (Macheka, Manditsera, Ngadze, Mubaiwa and Nyanga, 2013). The country's black empowerment and indigenisation laws that culminated at independence in 1980 contributed to the growth of SMEs across sectors in the country (Nyangara, 2013). Despite the significant role that SMEs play in economic development, these SMEs continuously encounter hindrances particularly in developing countries (Bouazza, Ardjouman and Abada, 2015). Access to finance by SMEs is largely cited as the greatest obstacle to SMEs development and as a result it has attracted the attention of academics and policy makers (Ardic, Mylenko and Saltane, 2012; Osano and Languitane, 2016). SMEs are unable to access bank financing because of lack of required collateral, limited awareness of funding opportunities and limited business support services.

Recently, there has been a renewed research interest the area of SME financing, considering the growth in the globalisation of financial markets (Stevenson & Pond, 2016). The procyclicality of bank lending post-global crisis created unwanted response effects that reduced economies' allocative efficiency (Behr, Foos & Norden, 2017). Additionally, the global financial crisis of 2008–2009 brought about a negative shock to the growth of bank lending and consequently, SMEs access to financing, which is characterized by information asymmetry, was negatively affected (Cull & Pería, 2013). Existing literature strongly supports the notion that availability of finance is critical in the decision to undertake an entrepreneurial venture (Abe, Troilo & Batsaikhan, 2015). SMEs presently do not have adequate resources take up innovative developments and improve growth opportunities (Paulet et al., 2014). SMEs access to financing

in developing largely depends on several internal and external firm factors (Berg & Schrader, 2012).

The objectives of a bank, which include profit maximization essentially, influence the bank's lending behavior, scale, choice, and timing (Behr, Foos and Norden, 2017). In this context, smaller banks are generally willing to consider financing small firms than relatively large banks (Canales and Nanda, 2012). In many countries, monetary authorities have sought to encourage banks to lend to SMEs as a way of promoting the sector's growth (So, Thomas & Huang, 2016). Yet, asymmetric information, inadequate collateral and inexperienced managers are some of the challenges that restrict SMEs access to bank financing (Shaban, Duygun and Fry, 2016). In addition, banks sometimes avoid advancing financing to some SMEs like young start-ups even though they exhibit the possibility of high returns because of the possibility of risk of loss (Muller, Gagliardi, Caliandro, Bohn and Klitou, 2014). That said, this paper explores how business models and risk management systems influence banks' decisions to lend to SMEs.

2.5. Conceptual Model And Hypothesis Development

A review of existing literature led to the development of the following conceptual model. The conceptual model is a pictorial representation of the hypotheses proposed and the relationships being investigated in the broader research. Figure 1 summarizes the proposed theoretical relationship between the variable under study.

Figure 1: Conceptual Model

2.5.1. Financial Performance Orientation and Risk Management Systems

Financial performance can be defined as the ability of firms to operate competently and profitably, to survive and grow while reacting well to the opportunities and threats in the business environment. In this study, financial performance was measured using an instrument adapted from Moorman and Rust (1999) that basically measured financial performance subjectively. Return on assets, net profits, sales, and market share were the main issues

included into the measurement instrument. Currently organisations are facing increasing global competition coupled with growing while changing customer demands for product innovativeness and supplier sensitivity and these factors transformed firms' business models while reducing the incentive for banks to take up new risks (Chan and Qi, 2003). The uncertainty in the business environment makes it difficult to monitor risk in certain investment assets (Szczepański and Światowiec-Szczepańska, 2012). One of the firm's motives for managing risk is to ensure the stability of earnings and cashflows and the reduction in risk allows the firm to make better forecasts and avoid financial distress and its consequences (Dhanini, 2007; Droggt & Goldberg, 2008). Failure to manage risk or misjudging a risk has catastrophic consequences, to the firm extending from customer loss to bankruptcy (Hollman & Mohammad-Zadeh, 1984). Risk management significance in banks and other financial intermediaries is magnified because of the position that these occupy in the economy and the fact that intermediation itself is a source of other risks (Sharma, 2008). An understanding of risks and mechanisms to prevent them helps preserve and improve competitive position (Oprean, 2014). Existing literature has shown that banks in their business models can combine their daily activities with improvement in profitability, while minimising risk (Hryckiewicz & Kozłowski, 2017). Given the arguments above, this study proposes the following hypothesis.

H₁: Financial Performance oriented business models are significantly and positively related to risk management systems in SMEs lending.

2.5.2. Value Creation Alignment and Risk Management Systems

The notion of value creation has over the years remained a central issue in corporate strategy development (Tuch and O'Sullivan, 2007). The value creation process, as contained in the dynamic capability theory, focuses on how firms revive or alter their resources persistently to improve their well beings (Eisenhardt & Martin, 2000; Teece, 2007). It involves reconfiguring the consumers' perception on the worthiness of a product or service (Priem, 2007). The process of reconfiguring the firm's core processes carries a risk in that the implementation of new manufacturing processes for example, may alter standard product specification leading to product unacceptability in different national markets or consumer groups (Schoenberg & Bowman, 2015). Commercial banks now face competition from investment banks, mutual funds and insurance companies who have incorporated commercial banks' core business activities into their own (Olivero, Li, & Jeon, 2011). When banks, particularly those in growing economies with limited domestic markets, expand their operations to new geographical markets, they are presented with opportunities for both growth and value creation (Lu and Beamish, 2001). As banks undertake to expand their activities, they expose themselves to risk such as liquidity risk (Jenkinson, 2008) thereby negatively affecting profitability of the bank (Chaplin, Emblow & Michael, 2000). Undoubtedly, there is a link between investment decision making, banking system development, firm value and risk management and given this interconnectedness, it is imperative that this study proposes the following hypothesis.

H₂: Value creation business models are significantly and positively related to risk management systems in SMEs lending.

2.5.3. Customer Alignment and Risk Management Systems

Scholars have thrown some doubts on the notion that banks always make the best lending decisions that always lead to the competent distribution of credit. Such scholars have argued that the customer should not be 'forgotten' in the discussion of lending decisions (Heo & Lee, 2011). As banks continue to compete for deposits in the competitive environment they are bound to alter their funding decisions and costs (Sääskilahti, 2016). Competition, increasing costs of customer acquisition and growing customer switching tendencies, have forced many

banks to adopt a strategic emphasis on customer retention (Ennew and Binks, 1996; Manrai and Manrai, 2007). One critical component of bank lending decisions is information asymmetry between lender and borrower and banks have developed closer relationships with their customers to reduce such informational irregularities (Boot, 2000). Banks also manage their costs by cross selling different financial products to the same customer hence the need to reinforce the relationships with customers and foster customer loyalty (Bonini, Dell'Acqua, Fungo and Kysucky, 2016). There are numerous other evident benefits to banks for maintaining long-term relationships with its customers (Ying and Yuande, 2013). Profitability and competitive advantages are gained through ensuring quality relationships exist between banks and their customers, given the level of competition in the banking industry and a dwindling customer base (Ndubisi, 2007; Izogo, Reza, Ogba and Oraedu, 2017). Concisely, sustaining good customer relationships and continuous patronage is regarded as critical for organisational success (Izogo, 2016; Ndubisi Khoo-Lattimore, Yang and Capel, 2011). In this respect, banks find themselves having to trade off tight risk management systems for customer loyalty and retention because such relationships impact banks performance (Hasana, Jackowicz, Kowalewski and Kozłowski, 2017). Based on the above, the following research hypothesis is proposed.

H₃: Customer aligned business models are negatively related to risk management systems in SMEs lending.

2.5.4. Risk Management Systems and SMEs Lending Proclivity

Banks' lending decisions are based on some process that is meant to overcome operational problems that have the potential to affect the viability of bank (Ashton and Keasey, 2003). One factor that has limited SMEs to access bank financing is information opacity, which is generally high in the young who generally do not have audited financial statements and thus they lack the financial information needed to make an informed decision on a business loan application (Hasana, Jackowicz, Kowalewski and Kozłowski, 2017). The greater probability of default prevalent among SMEs force banks to reduce the amount of credit advanced to these firms (Behr, Foos and Norden, 2017). SMEs are generally considered as riskier, more financially constrained and more bank-dependent than large firms and as such traditional methods of risk management may not be favorable for lending to SMEs (Ashton & Keasey, 2003). Bank lending to SMEs is always affected information asymmetries and its unattractive risk management practices (Behr, Foos & Norden, 2017). Accordingly, the following research hypothesis is formulated:

H₄: Risk management systems are significantly and negatively related to SME bank lending proclivity

2.5.5. Financial Performance Orientation and Value Creation Alignment

Because of a series of company failures, product failures, stock market pressures, brand collapses and increased competition in the market, that the world has experienced, the notion of value creation has become a global issue (Lau and Tong, 2008; Prahalad and Ramasamy, 2004). In a dynamic and competitive business environment, the essential logic for value creation is also changing, making strategic thinking critical for survival (Acharyulu and Shekhar, 2012). Value is created in an organisation through the transformation of organisational inputs into short and long term outputs and outcomes for the benefit of firm stakeholders, society, and the environment (Abdullah and Said, 2015). Anderson et al (2014) have concluded that firms that understand and consider value creation at their management controls will yield better economic and behavioral aspects. Each mode of value creation corresponds with a set of value creation activities and these activities affect the internal structure of the organisation (Kraaijenbrink and

Spender, 2011). Existing literature has shown that there is a positive relationship between value creation and business performance (Fuller, 2001; Gholami, 2011; Kraaijenbrink and Spender, 2011). Given these elements, we propose the following hypothesis:

H₅: Financial performance oriented business models are significantly and positively related to value creation alignment.

3. METHODS OF THE STUDY

3.1. Sample and Data Collection

The target population of the study is commercial banks. As of 31 December 2016 they were 13 registered commercial banks. Per each institution, questionnaires were distributed to owners/managers, loan officers/credit controllers and branch managers, considering that they are actively and meaningfully involved in the operational functions of the lending institutions. Data for this study was collected using self-administered questionnaires from a sample of 13 institutions (450 respondents) and of these, 273 questionnaires were returned and analysed after cleaning. The response rate was acceptable as it aligned well with the requirements for structural equation modelling (SEM), which requires a sample size of 200 or more observations (Hair, Black, Anderson & Babin, 2010).

3.2. Data Analysis and Results

Structural equation modeling (SEM) was used to statistically analyse the relationship between variable as it provides a more vigorous methodology for testing causal models (Kline, 2004). SEM is a technique that specifies, estimates, and evaluates linear relationships between a set of latent and observed variables (Byrne, 2001; Shah and Goldstein, 2006). SEM has the ability to examine multiple relationships simultaneously and allows for measurement errors. AMOS version 24.0 was used for SEM and a two-step model building method was employed, where measurement properties are validated first, then the structural model (Joreskog and Sorbom, 1993).

3.3. Sample Description

The demographic profiles of the research participants are presented in Table 1. Most the respondents have a meaningful academic qualification with most of them (49.45%) having a professional qualification. This strengthens the findings of this research because at least it can be concluded that the respondents understood the questions and gave reasonable responses. Most of the respondents are directly involved in the lending process. 52.01% are credit controllers or analysts and 30.04% are loan officers. The research was on lending decisions and these are the best people to relate to on such issues. The involvement of Management in the research also validate the findings are these are responsible for managerial functions like business modelling and risk management. For note is the fact that there were more male respondents than female respondents.

Table 1 Sample Demographic Characteristics

Highest Level of Education	Freq	%	Position in Bank	Freq	%
Doctorate	2	0.73	Management	28	10.26
Postgraduate Degree	15	5.50	Credit Controller/Analyst	142	52.01
Undergraduate	102	37.36	Loan Officer	82	30.04
Professional Qualification	135	49.45	Bank Teller	5	1.83
High School	19	6.96	Other	16	5.86
Total	273	100	Total	273	100
Participants Work Experience	Freq	%	Gender	Freq	%
≤ 2 years	85	31.14	Male	153	56.04
3-5 years	98	35.90	Female	120	43.96
6-10 years	56	20.51	Total	273	100
11-20 years	23	8.42			
≥21 years	11	4.03			
Total	273	100			

3.4. Validation of measures

In both exploratory and confirmatory studies, survey instruments are commonly subjected to reliability and validity inspections (Collis & Hussey, 1995) and this measurement instrument validation is somehow a precondition to testing a model and research hypotheses (Shan & Jolly, 2013). Reliability of an instrument relates to the constancy and consistency of an instrument in measuring a variable (Page & Meyer, 2000; Sekaran, 2003). In this study, scale reliability, convergent validity and discriminant validity were assessed. convergent validity was determined by calculating item reliability, internal consistency, and average variance extracted (AVE) (Fornell & Larcker, 1981) while convergent validity and discriminant validity were assessed using confirmatory factor analysis.

Item reliability assesses the loadings for each individual item. The loadings indicate the correlation of the items with their respective constructs. Table 2 presents the detailed item loadings, internal consistency and the average variance extracted. A factor loading that is above 0.60 is regarded as high enough hence significant to explain variations in the variable (Johnson & Wichern, 2002). The item loadings from this study ranged between 0.714 and 0.889 making them acceptable and hence all items were significant in explaining the variations in the variables. Regarding internal consistency, Fornell and Larcker (1981) stipulate that the minimum acceptable value is 0.7. They also add that the AVE value must be greater than 0.5 to be acceptable. The results contained in Table 2 indicate that all the variables have internal consistency values above 0.7 value and AVE values above 0.5. This implies that convergent validity of the measurement properties was achieved.

Table 2 Item Loading, Composite Reliability (Cr) And Average Variance Extracted (AVE)

Construct	Item	Loading	CR	AVE
Financial Performance Orientation (FPO)	FPO1	0.850	.916	.733
	FPO2	0.889		
	FPO3	0.805		
	FPO4	0.878		
Customer Alignment (CA)	CA1	0.745	.843	.573
	CA2	0.758		
	CA3	0.714		
	CA4	0.801		
Value Creation (VC)	VC1	0.637	.800	.501
	VC3	0.612		
	VC4	0.752		
	VC6	0.622		
Risk Management Systems (RMS)	RMS1	0.829	.672	.891
	RMS2	0.819		
	RMS3	0.824		
	RMS2	0.808		
SME Lending Proclivity (SLP)	SLP1	0.664	.811	.520
	SLP2	0.687		
	SLP3	0.701		
	SLP4	0.821		

Another important assessment measure is discriminant validity. Discriminant validity relates to the extent to which two theoretically comparable variables are different (Hair et al., 1998). As advocated for by Barclay, Higgins, and Thompson (1995) discriminant validity is established when the square root of the AVE is greater than the inter-constructs correlations. The results in Table 3 prove that adequate discriminant validity of the measurement model was established. The constructs in this measurement model do differ from each other.

Table 3 Correlation Of Latent Variables And Square Roots Of Ave

Construct	FPO	CA	VC	RMS	SLP
Financial Performance Orientation (FPO)	0.856				
Customer Alignment (CA)	-0.182	0.757			
Value Creation (VC)	0.386	-0.020	0.708		
Risk Management Systems (RMS)	0.399	-0.226	0.615	0.820	
SME Lending Proclivity (SLP)	0.330	0.141	0.362	-0.493	0.721

(The bold elements in the main diagonal are the square roots of AVE)

4. RESULTS

4.1. Research Model Assessment and Tests of Hypotheses

Model fitness was also assessed and the hypothesis tested. For the model to be regarded as fit, the CFI values should be between 0 and 1 and the closer the number is to 1 the better the model fit and a CFI value of 0.90 or greater indicated an acceptable model fit (Hu & Bentler, 1999). The Root Mean Square Error of Approximation (RMSEA) estimates are also used to assess model fitness and a RMSEA of 0.06 or less indicates a satisfactory model fit (Hu & Bentler, 1999). The results reported below Table 4 show that the model is satisfactory in terms of general goodness of fit. The results show that, CFI was 0.918, and RMSEA was 0.056 and consequently thresholds were achieved (Bentler, 1990). The results of the hypotheses testing are detailed in Table 5. All the 5 hypotheses stated in the conceptual model were supported.

Table 4 Structural Model Hypotheses Result

Hypothesis	Path Coefficient
H_1 : FPO $\rightarrow$ RMS	0.162*
H_2 : VC $\rightarrow$ RMS	0.651*
H_3 : CA $\rightarrow$ RMS	-0.234*
H_4 : RMS $\rightarrow$ SLP	-0.264*
H_5 : FPO $\rightarrow$ VC	0.481*

Note: GFI=0.882; AGFI=0.852; IFI=0.918; TLI=0.900; CFI=0.918; RMSEA=0.056; * $p < 0.01$.

4.2. DISCUSSIONS AND CONCLUSIONS

This study made use of the Modern Portfolio Theory to provide a theoretical grounding for the conceptual model to examine the impact of business models on SMEs lending proclivity by banks, as well as the mediating role of risk management systems. The study proposed that business models impact on risk management decisions which in turn are negatively related to SME lending tendency. The findings of the study indicate that banks with business models that are more inclined towards increasing financial performance and creating value positively correlate to tighter risk management systems, while those who are customer centric tend to have lighter demands in their management of risk. Banks and microfinance institutions are characteristically profit-oriented and are expected to deliver by their shareholders (Meriläinen, 2016). However, there is evidence of some institutions that exhibit greater customer orientation and tend to be tolerant to the SMEs financing demands. Customers aligned banks tend to have in place lighter risk management demands and as a result tend to lend more to these SMEs. Reasons for customer alignment are summarised by Santos (2009) who states that a closer interface with crucial customers and product end-users does not only enable firms to study their current market needs, but also enable the firm to discover future customer needs ahead of competition. This kind of SME tolerant lending behavior was generally observable among Non-Governmental Organisations backed microfinance institutions and government affiliated specialised banks.

5. IMPLICATIONS AND RECOMMENDATIONS

Since financial performance and value creation business model tend to be associated with stringent risk management systems, perhaps it will be beneficial to both banks and SMEs if

banks alter their business models slightly to enhance fee and commission based activities. From the questions asked to the respondents, the current value creation and financial performance focused business models have meant that banks subject borrowers to rigorous risk assessments and those that pass the test are subjected to high interest rates to compensate for taking up the perceived risk. However, as stated by Kok, Mirza, Móre and Pancaro (2016), a shift to fees and commissions based models result in diversified income sources thus helping banks stabilise their capital generation and become less reliant on net interest income. Once banks are able to expand their fees and commissions generating activities they may eventually be able to reduce the interest rate the demand from SMEs thereby improving on access to financing. While it is not clear whether a stronger dependence on fees and commissions income will fully compensate for lower net interest income, a study by Altunbas, Manganelli and Marques-Ibáñez (2011) has shown that fees and commission income tends to be more stable than both net interest income and trading income. This model does not divert much from the ultimate objective of interest income based business models.

The results expose the need for policy makers to promote and incentivize the formation of Savings and Cooperative Banks to enhance SMEs access to debt financing. While commercial and merchant banks as well as micro finance institution are profit oriented, savings and cooperative banks are stakeholder banks and usually they do not have a profit distribution determination; hence, they are not primarily profit-oriented. As argued by Fonteyne (2007) cooperative banks are not shareholder owned but belong to contributing members, who frequently are the customers such that, instead strictly seeking to maximise returns cooperatives may seek to primarily serve their members. The need to educate banking institutions on the significant role the customer plays in value creation is evident from this study. When the focus of a firm is the customer in value engineering, they achieve market success through focused innovation and shared resources, knowledge, and skills. This means that by adopting a more customer aligned business model, the bank's goal of value creation is eventually achieved while satisfying SMEs' financial needs.

An alternative creditworthiness evaluation system may be very handful in ensuring that SMEs access debt financing from banks and microfinance institutions. In Zimbabwe, financial institutions, in pursuance of the financial performance maximization and value creation business models advance loans to SMEs primarily based on past repayment data, something many SMEs do not possess. While such traditional risk management strategies are highly dependable, the use of alternative data from online, mobile, and psychometric sources may also yield similar if not better results. One's willingness and ability can also be determined through a series of psychometric evaluations rather than through submission of audited financial statement and pledging of collateral. This however does not undermine the fact that financial institutions that look to enhance their understanding of their customers, build their business portfolios, and manage risk should make greater use of these alternative data sources, as sources of opportunities and to enjoy the distinct advantages inherent to such data sources.

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