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# EFFECT OF AGENCY BANKING ON FINANCIAL PERFORMANCE OF COMMERCIAL BANKS IN RWANDA. A STUDY OF FOUR COMMERCIAL BANKS IN RWANDA

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## **ABSTRACT**

ntil recently access to banks was not an easy thing for a common man in Rwanda as banking sector was majorly targeting working class and the middle class people with more disposable income. Since 2012, there have been significant improvements in the banking sector with the introduction of agency banking, an innovative delivery channel that seeks to bring access to financial services much closer to entrepreneurs in Rwanda (BNR 2015). This study sought to investigate the effect of agency banking on financial performance of commercial banks in Rwanda. The study adopted a descriptive research design. The target study sample comprised of the 4 commercial banks operating agency banking in Rwanda as at 31st December 2015 (BNR, 2015). Census approach was used to select 15 senior managers from each bank thus forming a sample size of 60 respondents who were used in this study The study used both primary and secondary data. Primary data was collected using structured questionnaires that were administered to the respondents. Data collected was analyzed through SPSS version 21. The study found that the move by the central bank to regulate agency banking had a positive influence on the financial performance of commercial banks in Rwanda. The study also found that low transaction cost through agency banking had a positive impact on the financial performance of commercial banks in Rwanda. The study revealed that financial services accessibility by customers through baking agencies had a positive impact on financial performance of commercial banks in Rwanda. The study found that increased market share had a positive effect on the financial performance of commercial banks with many banking institutions indicating that increased market share allowed a company to achieve greater scale in its operations which generally improved its profitability. Multiple regression models was used to analyze the data on financial performance. The ANOVA results for regression coefficient indicate that the significance of the F is 0.00 which is less than 0.05. This implies that there is a positive significant relationship the effect of agency banking and performance of commercial banks in Rwanda and that the model is a good fit for the data

Key words: Financial performance, Agency banking, Commercial banks in Rwanda.

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## 1. Introduction

The business environment globally has changed and it has been characterized by stiff competition among the players and the banking industry is no exception. Competition amongst the commercial banks has pushed banks towards becoming more innovative. These innovations include ATMs, credit cards, mobile banking, internet banking, and children accounts and now most recently introduced within banking sector – agency banking (Bold, 2011).

Though commercial banks continues to invest in rolling out brick and mortar branches that are complimented by various delivery channels, the challenge of access to formal financial services remains a big impediment to financial performance. Customers (especially in remote areas) are forced to travel long distances and spend huge amounts of money on transport in order to access a branch. In addition to the cost of transport is the time spent commuting to and fro that could have been spent more productively. To curb these challenges, a number of central banks around the world have released legislation that allows commercial banks to contract third party retail networks as agents (Ivatury & Lyman, 2006).

Since 2012, there have been significant improvements in the banking sector with the introduction of agency banking in Rwanda, an innovative delivery channel that seeks to bring access to financial services much closer to entrepreneurs (BNR, 2014). This study sought to find out the role of agency banking in improving financial performance of commercial banks in Rwanda. In the last decade, there has been an explosion of different forms of remote access financial services, that is, beyond branches. These have been provided through a variety of different channels, including mobile phones, automatic teller machines (ATMs), and point-of-sale (POS) devices and banking correspondent (Podpiera, 2008).

In many countries, these branchless channels have made an important contribution to enhancing financial inclusion by reaching people that traditional, branch based structure would have been unable to reach. One of the main obstacles to financial exclusion is cost: both the cost to banks involved in servicing low value accounts and extending physical infrastructure to remote rural areas, and the cost (in money and time) incurred by customers in remote areas to reach bank branches. These agents have also penetrated into rural areas where offering banking services could be expensive for banks.

In rural areas it is often prohibitively expensive for commercial banks since transaction numbers and volumes do not cover the cost of a branch (Kitaka, 2001). Also low income clients often feel more comfortable banking at their local store than walking into a marble branch (Adiera, 1995).

Though the bank continues to invest in rolling out brick and mortar branches that are complimented by various channels, the challenge of access to formal financial services remains a big impediment to financial performance. Customers (especially in remote areas) are forced to travel long distance and spend huge amounts on transport in order to access a branch. In addition to the cost of transport is the time spent commuting to and fro that could have been spent more productively. To curb these challenges, the National Bank of Rwanda released a legislation that allows commercial banks to contract third party retail networks as agents. Aduda, (2012), the main objective of all commercial banks is to increase their profitability through expansion of their branch network in order to reach many of their potential and existing customers who are in remote places where access to banking services is limited. Besides this, agency banking also assists in decongesting banking halls by letting the customers receive banking services elsewhere. In an effort to achieve this, they have opted to use the existing business enterprises such as pharmacies, supermarkets and convenient stores. This is what is referred to as Agency banking.

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Agency banking was first developed in Brazil in 1999. Although by 2000, only 1,600 municipalities in Brazil had bank branches, by 2010, some 170,000 agents cover all of the 5,500 municipalities, and nearly 12 million accounts have been opened at agents over the years. Brazil's experience has offered valuable lessons for countries where banks can contract an agent (McKay, 2011). The Banks Act allows a bank to contract agents to receive on (the banks) behalf from its clients any deposits, money due to it or applications for loans or advances, or to make payments to such clients on its behalf.

Agency banking refers to the services offered by retail or postal outlet contracted by financial

Institutions to process clients' transactions. Rather than a branch teller, it is the owner or an employee of the retail outlet who conducts the transaction and lets the client deposit, withdraw, and transfer funds, pay their bills, inquire about an account balance, or receive government benefits or a direct deposit from their employer (Ivatory & Layman, 2006). Banking agents are usually equipped with a combination of point-of-sale (POS) card reader, mobile phone, barcode scanner to scan bills for bill payment, personal identification numbers(PIN) pads, and sometimes personal computers that connect with the bank's server using a personal dial-up or other data connection. Identification of customers is normally done through a PIN, but could also involve biometrics. With regards to the verification, authorization, and settlement platform, banking agents are similar to any other remote bank channel (CGAP, 2006).

Local regulation will determine if commercial banks are allowed to work through retail outlets. Regulators generally determine what kind of, if any, commercial banks are permitted to contract banking agents, what products can be offered at the retail outlets, how commercial banks have to handle cash transport, know your customer requirements, consumer protection, and other operational areas. Agency banking functions include; enabling customers to pay their bills, inquire about an account balance or receive government benefits or a direct benefit from their employer. It also helps bank customers to make payment of rent and insurance premium. Besides these, it accepts deposits from customers and allows withdrawals and transfer of funds. (Ivatury, 2006)

Financial performance is conclusions drawn from financial analysis of a firm. Financial analysis is the selection, evaluation, and interpretation of financial data, along with other pertinent information, to assist in investment and financial decision-making. Financial analysis may be used internally to evaluate issues such as employee performance, the efficiency of operations, and credit policies, and externally to evaluate potential investments and credit-worthiness of borrowers, among other things (Mary A. 2015)). Financial performance is subjective of how well a firm uses its assets from its primary mode of business to generate revenue. This term is also a general measure of the firm's overall financial health over a given period of time and can be used to compare industries or sectors in aggregation (Hales, 2005).

Some of the key aspect that is looked at in financial performance is profitability, liquidity, solvency, financial efficiency and repayment capacity. Further analysis of financial performance uses methodologies such as financial ratio analysis, benchmarking, measuring performance against budget or a combination of these (Liargovas *et al*, 2008). Dess & Robinson (1984) performed a study that compared subjective measures to objective measures of profitability. They used a three-step approach to test the correlation between objective and subjective measures of return on assets (ROA), sales growth, and overall financial performance. Both objective and subjective measures of the ROA and sales growth were used in addition to two measures of overall financial performance. The measures of overall financial performance were compared to the objective and subjective ROA and sales growth. Dess and Robinson (1984) found that a

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firm's subjective perceptions of how well it had done over a specific time period were in agreement with the objective measures of change in return on assets and sales. They were also in agreement with the firm's subjective evaluation of overall financial performance. Finally, it will be stated that subjective performance measures were probably the most appropriate for examining relative performance within an industry (Dess & Robinson, 1984).

A bank agent is a commercial entity that has been contracted by a commercial bank and approved by the National Bank of Rwanda to provide specific services on behalf of the bank. Agents are equipped with the skills necessary to provide basic banking services according to standards set by the banks with commercial bank key objective of offering the full range of banking services to their customers without them having to visit a branch. This provides the opportunity to access financial products and services at a location nearest to the customer, thus breaking down certain barriers to financial inclusion such as cost and accessibility.

Agency banking as a strategy of expansion depicts its concept from the branchless banking model into which the wordings are will use interchangeably. Branchless banking is a distribution channel strategy used for delivering financial services without relying on banks branches (Ivatury & Mars, 2008). It represents a cheaper alternative to conventional branch based banking through the use of delivery channels like retail outlets, mobile phones, internet and automated teller machines (ATMs). Agency banking is a type of branchless banking where third parties are involved in performing some of the activities that are traditionally performed in banking halls by bank personnel. Globally, retailers and post offices are increasingly utilized as important distribution channels for financial institutions. The points of service range from post offices in the Outback of Australia where clients from all banks can conduct their transactions, to rural France where the bank Credit Agricole uses corner stores to provide financial services, to small lottery outlets in Brazil at which clients can receive their social payments and access their bank accounts (Kumar et al, 2006).

In understanding agency, there are three parties to a transaction: the customer, the agent's employee who operates the POS (Point of Sale) device and the bank. Each party should authenticate themselves before initiating any transaction, preferably with two factors of security hence; the customer and the authorized employee of the agent each have a personal card plus a secret PIN. To avoid fraudulent POS terminals, a bank could also announce a unique secret key to each of its clients through which the bank identifies itself to its clients before each transaction (Ivatury, 2008). Financial performance is conclusion drawn from financial analysis of a firm. Financial analysis is the selection, evaluation, and interpretation of financial data, along with other pertinent information, to assist in investment and financial decision-making. Financial analysis may be will use internally to evaluate issues such as employee performance, the efficiency of operations, and credit policies, and externally to evaluate potential investments and the credit-worthiness of borrowers, among other things (Drake, 2006). Financial performance is a subjective measure of how well a firm uses its assets from its primary mode of business to generate revenue (Greenwood & Jovanovic 2008). This term is also a general measure of the firms overall financial health over a given period of time and can be used to compare similar firms across the same industry or to compare industries or sectors in aggregation (Hales, 2005).

Some of the key aspect that is looked at in financial performance is profitability, liquidity, solvency, financial efficiency and repayment capacity. Further analysis of financial performance uses methodologies such as financial ratio analysis, benchmarking, measuring performance against budget or a combination of these (Barnet et al, 2006). Profit is the ultimate goal of a firm. To measure the profitability, there are variety

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of ratios used of which Return on Asset, Return on Equity and Net Interest Margin are the major ones (Murthy & Sree, 2003). ROA is a major ratio that indicates the profitability of a bank. It is a ratio of income to its total assets (Khrawish, 2011). It measures the ability of an organization's management to generate income by utilizing company assets at their disposal. Net Interest Margin (NIM) is a measure of the difference between the interest income generated by banks and the amount of interest paid out to their lenders, relative to the amount assets. It is usually expressed as a percentage of what the financial institution earns on loans in a specific time period and other assets minus the interest paid on borrowed funds divided by the average amount of the assets on which it earned income in that time period (the average earning assets). ROE is a financial ratio that refers to how much profit a company earned compared to the total amount of shareholder equity invested or found on the balance sheet. ROE is what the shareholders look in return for their investment. Return on Assets (ROA) is the ratio of Net Income after Taxes divided by Total Assets. The ROA signifies managerial efficiency. In other words it depicts how effective and efficient the management of banks has been as they seek to transform assets into earnings. A higher ratio indicates a higher performance of the banks. It is a useful tool for comparing profitability of one bank with other or the whole commercial banking system. Moreover, the ROE is said to measure the rate of return on the bank's shareholders equity and it is calculated by dividing banks net income after taxes by total equity capital which includes common and preferred stock, surplus, undivided profits, and capital reserves. This measure of profitability gives an indication of what the banks earns on the shareholder's investment; many researchers have presented ROA as an appropriate measure of bank profitability. Among them Ombutora & Mugambi, (2013) who argued that bank profitability is best measured by ROA in the sense that, ROA cannot be distorted by high equity multiplier? However, Boldizzoni, F. (2008) also claims that as ROA tend to be lower for financial intermediaries, most banks heavily utilize financial leverage to increase their ROE to competitive levels.

Boldizzoni, F. (2008), defines a commercial bank as a financial institution that is capable of accepting deposits, making business loans, and offering basic investment products. According to the National Bank of Rwanda there are currently 17 commercial banks that are fully registered and operating in Rwanda. These are profit making financial institutions that play a significant role in the financial system of the country. Commercial banks play a number of roles in the financial stability and cash flow of the country's private sector. Commercial banks provide a number of import financial and trading documents such as letters of credit, performance bonds, standby letters of credit, security underwriting commitments and various other types of balance sheet guarantees. They also take the responsibility for safeguarding such documents and other valuables by providing safe deposit boxes. Currency exchange functions and the provision of unit trusts and commercial insurance are typically provided by the relevant departments in larger commercial banks. Commercial banks in Rwanda also play a very significant role as agents of monetary policy. The Central Bank of Rwanda largely depends on commercial banks in effecting its monetary policy. The banks also contribute a significant portion of the Country's Gross Domestic Product (GDP) (Rajan & Zingales, 1998). Despite the mentioned achievements, commercial banks in Rwanda have their share of challenges. One of the challenges faced by commercial banks is the stiff competition from both local and international players. The other challenge relates to increasing operational expenses and expanding non-performing loan portfolio that forces most commercial banks to use a significant portion of their profits to provide for nonperforming loans. Commercial banks in Rwanda are also getting several challenges with rapid changes in technology that requires them to continue improving their existing systems to cope with dynamic business environments. The dynamic business environment in which commercial banks operate has made some of the

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banks to consider alternative ways in order to remain competitive in the market. One of strategies pursued by commercial banks is agency banking. Banking agents help commercial banks to divert existing customers from crowded branches providing a complimentary often more convenient channel. Other commercial banks, especially in developing markets, use agents to reach an additional client segment or geography. Banking agents are the backbone of mobile banking, i.e., performing transactions over a mobile device, most often a mobile phone. To enable clients to convert cash into electronic money and vice versa which can be sent over their mobile phone, clients will have to visit a branch, automated teller machine (ATM), or banking agent. Especially in remote and rural locations, where cash is still the most important way to pay and transact, a mobile banking service is dependent on banking agents to enable clients to effectively use the service.

Agency banking took effect in Rwanda in May 2012 after the publication of prudential guidelines by the National Bank of Rwanda. Agency banking has been practiced in a number of Countries such as Brazil, Kenya, Columbia, Pakistan, South Africa and Indonesia. The agency banking retail approach is designed to help banks increase their outreach without incurring additional costs of setting up. The commercial banks and non-banking financial institutions offer corporate and retail banking services but a small number, mainly comprises the large banks, offer other services including investment banking. Globalization has spearheaded the integration of the Rwanda economy with other world class economies such as Singapore, which is now part of the global village. The powers of information and technology, de-regulation, globalization of markets and stiff competition has made banks better educated, more inquisitive, sophisticated and deciding. The banking environment has changed tremendously thereby posing serious implications and challenges to the survival and profitability of banks. This is according to Consultative Group to Assist the Poor (CGAP, 2003). However Rwandan banking sector has demonstrated a solid growth over the past few years. The industry continues to offer significant profit opportunities to the major participants.

## 1.1 Statement of problem.

Initially access to banks will be not an easy thing for a common man in Rwanda as banking sector will be majorly targeting working class and the middle class/people with more disposable income. To move closer and access many customers, commercial banks started to allow other commercial outlets like shops and supermarkets to act in their capacity as formal banks and this will be formally launched by National Bank of Rwanda about five years ago, but just a handful of banks have so far taken up the option. So far KCB, Bank of Kigali, cogebanque and equity bank have launched their agent banking segment. The rationale for adopting agency banking is to enable Rwandan financial institutions to take advantage of the cost saving and accessibility brought about by the agency banking model. According to the (BNR 2013), there will be significant growth in retail deposits amongst commercial banks that had embraced agency banking. Mwangi, (2011) evaluated the role of agency banking in the performance of commercial banks in Kenya. The study was done on four banks offering agency banking services using questionnaires distributed to the banks' branch managers. The study established that infrastructure cost and security influence the performance of commercial banks attributable to agency banking to a very great extent. The study recommends that agency banking should be given attention on security measures including risk-based approach and that the bank should find better ways of screening their agents to ensure that the large cash transactions handling is effectively carried out on their behalf; secure operating systems capable of carrying out real time transactions, generating an audit trail, and processing data confidentiality and integrity. Kamau, (2012) studied the relationship between agency banking and financial performance of the banks in Kenya. Through

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review of secondary data, the study found that agency banking outlets were 9,748 active agents in 2011 from 8,809 in 2010 facilitating a total volume of 8.7 million transactions valued at Kshs. 43.6 billion. A few studies have been conducted on the impact of agency banking on financial performance of commercial banks in Rwanda.

Aduda, et al. (2013) studied the effect of agency banking on financial inclusion in Kenya. They established that customers with large transactions are unlikely to transact with bank agents because of security risks. Their study also revealed that security influenced the growth of agency banking in Rwanda; distance does not influence the frequency of customers' transactions, and perceived usefulness influence the growth of agency banking. This study will focused on how bank agents improve access to financial services. It did not investigate how the commercial banks can benefit from agency banking. Other studies that have been conducted have mainly focused on the impact of agency banking on operational performance of commercial banks. The few studies on the impact of agency banking on financial performance of commercial banks in Rwanda that have been conducted targeted individual banks and were carried out before many commercial banks embraced agency banking. Unlike the past, today it is common to find one agent providing services of at least two commercial banks at the same outlet. The current study therefore seeks to bridge the gap between what has been previously studied by other researchers by carrying out a research on the impact of agency banking on the financial performance of commercial banks in Rwanda. Although customers have benefited a lot through the agency banking, it is not clear whether the financial performance of commercial banks have improved or not as a result of adopting agency banking. This study will attempt to answer the following research question: What is the impact of agency banking on financial performance of commercial banks in Rwanda?

## 1.2 General objective.

The general objective of the study was to analyze the effect of agency banking on financial performance of commercial banks in Rwanda

# 1.3 Specific objectives.

This study was guided by the following specific objectives:

- To establish the effect of financial services accessibility by customers on financial performance of commercial banks in Rwanda.
- ii. To determine the effect of increased market share on the financial performance of commercial banks in Rwanda.
- iii. To establish the effect of central bank regulation on financial performance of commercial banks in Rwanda.
- iv. To determine the effect of low transaction cost through agency banking on financial performance of commercial banks in Rwanda.

# 2.0 Literature Review

## 2.1 Conceptual Framework

In this study the dependent variable is financial performances while the independent variables are the effects of agency banking which are: Financial Service Accessibility, Central Bank Regulation, Market share and Low transaction cost.

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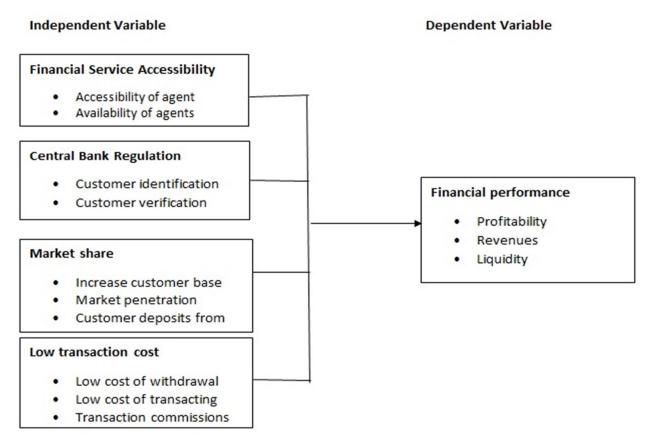


Figure 4 Conceptual framework

## 3.0 Research design

This study adopted a descriptive survey. Descriptive survey research design is a scientific method which involved observing and describing the behavior of a subject without influencing it in any way (Bryman, 2001). It is designed to gain more information about variables within a particular field of study. Its purpose is to provide a picture of a situation as it naturally happens (Burns & Grove, 2007). The objectives are stated clearly and a clear definition of the population is given. The instruments for data collection were tested for validity and reliability which is necessary for descriptive studies (Kothari, 2004).

## 3.1 Target population.

The population for this study is commercial banks in Rwanda. According to National Bank of

Rwanda (BNR, 2015), there are 17 commercial banks in Rwanda which is the target population for this study (Appendix I). Mugenda & Mugenda, (2013), states that the target population should have some observable characteristics, to which the researcher intends to generalize the results of the study. The target population for the study was 60 senior managers from the only four banks that have already adopted agency banking in Rwanda.

## 3.2 Sample size determination.

A sampling frame is a complete list of all the members of the population that we wish to study (Kothari, 2004). Purposive sampling technique was employed to select the 15 key managers on each bank thus forming a sample size of 60 respondents used in this study. The target study sample comprised of the 4 commercial banks operating agency banking as at 31<sup>st</sup> December 2015 (BNR, 2015). These banks includes, KCB, Bank of Kigali, Equity Bank and Cogenbanque. The whole population was be censured.

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## 4.0 RESEARCH FINDINGS AND DISCUSSION

# 4.1 Financial Services Accessibility and Financial Performance

Table 1: Financial services accessibility through agency banking

	Frequency	Percentage	
Yes	45	80	
No	11	20	
Total	56	100	

The study sought to determine whether financial services accessibility through agency banking affects the financial performance of commercial banks in Rwanda. From the findings the study established that, majority of the respondents agreed that financial services accessibility through agency banking affects the financial performance of commercial banks in Rwanda as shown by 80% where as 20% of the respondents were of contrary opinion. This implies that financial services accessibility through agency banking affects the financial performance of commercial banks in Rwanda.

Table 2: Extent to which financial services accessibility affects the financial performance

	Frequency	Percentage	
To a very great extent	26	46	
To a great extent	14	25	
To a moderate extent	9	16	
To a little extent	5	9	
To no extent	2	4	
Total	56	100	

The study sought to determine the extent to which financial services accessibility through agency banking affects the financial performance of commercial banks in Rwanda. From the findings the study established that 46% of the respondents indicated to a very great extent, 25% of the respondents indicated to a great extent, 16% of the respondents indicated to a moderate extent, 9% of the respondents indicated to a little extent and finally 4% of the respondents indicated to a no extent at all. This implies that financial services accessibility through agency banking affects the financial performance of commercial banks in Rwanda to a great extent.

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Table 3: Effects of financial services accessibility on financial performance

Agency banking adoption in banking systems has shown a great momentum and spread at an unbelievable pace across the world which has increased the accessibility of financial service		14 (25%)	Moderate (25%)	<sup>O</sup> Disagree	O Strongly disagree	<b>Mean</b>	Std. Deviation
There is great potential of using this in agent banking for provision of banking services to unbanked community		26 (46%)	5 (9%)	3 (6%)		2.06	0.37
Agency banking has led to accessibility of financial service to many customer in remote areas		14 (25%)	14 (25%)	3 (6%)	1 (1%)	1.83	0.39
Accessibility of banking service through agency banking has led to profitability of commercial banks	_	24 (43%)	3 (6%)	3 (6%)		1.91	0.38

The study sought to determine the level at which respondents agreed or disagreed with the above statements relating on effects of financial services accessibility through agency banking on financial performance of commercial banks in Rwanda. From the findings the study established that majority of the respondents agreed that; Agency banking adoption in banking systems has shown a great momentum and spread at an unbelievable pace across the world which has increased the accessibility of financial service as shown by mean of 1.71. Agency banking has led to accessibility of financial service to many customers in remote areas as shown by mean of 1.83. Accessibility of banking service through agency banking has led to profitability of commercial banks as shown by mean of 1.91 and finally there is great potential of using this in agent banking for provision of banking services to unbanked community as shown by mean of 2.06. The study further established that agency banking made it easier for commercial bank to reach out to many potential clients without investing so much in opening branches hence it's a cost effective measure. It also increased the ease of expansion hence outreach to far flung market pockets of bankable populations. Further it also increased distribution channels to offer financial services hence improving overall performance of the organizations.

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# 4.2 Central Bank Regulation and financial performance

The study sought to investigate whether the Central Bank regulation on agency banking affects the financial performance of commercial banks in Rwanda. From the findings 87% of the respondents were of the opinion that Central Bank regulation on agency banking affects the financial performance of commercial banks in Rwanda. Whereas 13% of the respondents were of contrary opinion this implies that Central Bank regulation on agency banking indeed affects the financial performance of commercial banks in Rwanda.

Table 4: Extent to which Central Bank regulation affects the financial performance

	Frequency	Percentage	
To a very great extent	26	46	
To a great extent	14	25	
To a moderate extent	9	16	
To a little extent	5	9	
To no extent	2	4	
Total	56	100	

The study sought to determine the extent to which Central Bank regulation on agency banking affects the financial performance of commercial banks in Rwanda. From the findings the study established that 46% of the respondents indicated to a very great extent, 25% of the respondents indicated to a very great extent, 16% of the respondents indicated to a moderate extent, 9% of the respondents indicated to a little extent and finally 4% of the respondents indicated to no extent at all. This implies that Central Bank regulation on agency banking affects the financial performance of commercial banks in Rwanda to a great extent.

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Table 5: Effects of Central Bank regulation on financial performance of commercial Banks

	Strongly agree	Agree	Moderate	Disagree	Strongly disagree	Mean	Std. Deviation
Efficiently maintain confidence in the	24	14	14	3	1	1.80	0.36
financial system	(43%)	(25%)	(25%)	(6%)	(1%)		
Promotion of public understanding of the	22	26	5	3		2.14	0.36
financial system	(39%)	(46%)	(9%)	(6%)			
Protect consumers of financial services and	24	14	14	3	1	1.91	0.38
reduce financial Crime	(43%)	(25%)	(25%)	(6%)	(1%)		
	26	24	3	3	0	1.69	0.39
scope for different means of compliance so as not to unduly restrict market participants	(46%)	(43%)	(6%)	(6%)			
from launching new financial products and services							
Rwandan government should hold banks	28	14	14	0	0	2.03	0.37
liable for the conduct of their agents		(25%)					,

The study sought to determine the level at which respondents agreed with the above statement relating to the effects of Central Bank regulation on agency banking. From the findings the study established that majority of the respondents agreed that the Government of Rwanda should allow scope for different means of compliance so as not to unduly restrict market participants from launching new financial products and services as shown by a mean of 1.69. BNR should efficiently maintain confidence in the financial system as shown by a mean of 1.80. It is the responsibility of BNR to protect consumers of financial services and reduce financial crime as shown by a mean of 1.91. Rwanda government should hold banks liable for the conduct of their agents as shown by mean of 2.03 and finally that BNR should promote public understanding of the financial system. The study further established that respondents were of the feeling that the regulation policies drawn by BNR did not accord all banking institutions a fair competition ground.

# 4.3 Market Share and Financial Performance

The study sought to determine whether market share through agency banking affects the financial performance of commercial banks in Rwanda. From the findings the study established that, 91% of the respondents agreed that market share through agency affects the financial performance of commercial banks in Rwanda whereas 9% of the respondents were of contrary opinion. This is an indication that market share through agency banking affects the financial performance of commercial banks in Rwanda.

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Table 6: Extent to which market share through agency banking affects the financial performance

	Frequency	Percentage	
To a very great extent	24	43	
To a great extent	14	25	
To a moderate extent	13	23	
To a little extent	3	6	
To no extent	2	3	
Total	56	100	

The study sought to determine the extent to which market share through agency banking affects the financial performance of commercial banks in Rwanda. From the findings the study established that 43% of the respondents indicated to a great extent, 25% of the respondents indicated to a very great extent, 23% of the respondents indicated to a moderate extent, 6% of the respondents indicated to a little extent and finally 3% of the respondents indicated to a no extent at all. This implies that market share through agency banking affects the financial performance of commercial banks in Rwanda to a great extent.

Table 7: Statement relating to market share and financial performance of commercial banks

	Strongly agree	Agree	Moderate	Disagree	Strongly disagree	Mean	Std. Deviation
Market share often is associated with profitability and thus many firms seek to increase their sales relative to competitors	24 (43%)	14 (25%)	14 (25%)	3 (6%)	1 (1%)	1.91	0.37
Market share increases can allow a company to achieve greater scale in its operations and improve profitability		26 (46%)	5 (9%)	3 (6%)		1.74	0.39
Banks are always looking to expand their share of the market through agency banking	24 (43%)	14 (25%)	14 (25%)	3 (6%)	1 (1%)	1.77	0.38
Banks that are increasing their market share through agency banking will be growing its revenues faster than its competitors.		24 (43%)	3 (6%)	3 (6%)	0	1.83	0.38
A bigger market share also means more power to the bank in controlling the prices and services it offers to its customers		14 (25%)	14 (25%)	0	0	1.86	0.37
The greater the market share, the greater is a bank's control over its prices and the services it offers		14 (25%)	14 (25%)	0	0	1.74	0.38

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The study sought to determine the level at which respondents agreed or disagreed with the above statements relating to market share and financial performance of commercial banks in

Rwanda. From the findings the study established that majority of the respondents agreed that;

the greater the market share, the greater is a banks control over its prices and the services it offers, market share increases can allow a company to achieve greater scale in its operations and improve profitability, as shown by mean of 1.74 in each case, banks are always looking to expand their share of the market through agency banking as shown by mean of 1.83, a bigger market share also means more power to the bank in controlling the prices and services it offers to its customers as shown by mean of 1.86 and finally that market share often is associated with profitability and thus many firms seek to increase their sales relative to competitors as shown by mean of 1.91.

# 4.4 Low Costs of Transaction and Financial Performance

The study sought to determine whether low transaction cost of agency banking affects the financial performance of commercial banks in Rwanda. From the findings the study established that, majority of the respondents agreed that low transaction cost of agency banking affects the financial performance of commercial banks in Rwanda as shown by 74.3% whereas 25.7% of the respondents were of contrary opinion. This implies that low transaction cost of agency banking affects the financial performance of commercial banks in Rwanda.

Table 8: Extent to which low transaction cost affects the financial performance of commercial banks

	Frequency	Percentage	
To a very great extent	26	46	
To a great extent	13	23	
To a moderate extent	10	18	
To a little extent	5	9	
To no extent	2	4	
Total	56	100	

The study sought to determine the extent to which low transaction cost of agency banking affects the financial performance of commercial banks in Rwanda. From the findings the study established that 46% of the respondents indicated to a very great extent, 23% of the respondents indicated to a great extent, 18% of the respondents indicated to a moderate extent, 9% of the respondents indicated to a no extent and finally 4% of the respondents indicated to a little extent. This implies that low transaction cost of agency banking affects the financial performance of commercial banks in Rwanda to a great extent.

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Table 9: Effects of low transaction cost on financial performance of commercial banks in Rwanda

	Strongly agree	Agree	Moderate	Disagree	Strongly disagree	Mean	Std. Deviation
Cost involved in transacting in agency	22	26	5	3	0	1.91	0.38
banking is low compared to banking hall	(39%)	(46%)	(9%)	(6%)			
Time spent in agency banking is low	24	14	14	3	1	1.86	0.38
compared to the normal banking	(43%)	(25%)	(25%)	(6%)	(1%)		
Cost involved in agency banking	26	24	3	3	0	1.71	0.39
positively influence performance of commercial banks	(46%)	(43%)	(6%)	(6%)			
Agents prior experience with the banks	28	14	14	0	0	1.83	0.38
customers is positively related to both performance and survival	(50%)	(25%)	(25%)				

The study sought to determine the level at which respondents agreed or disagreed with the above statements relating on low transaction cost of agency banking and its effects on financial performance of commercial banks in Rwanda. From the findings the study established that majority of the respondents agreed that costs involved in agency banking positively influence performance of commercial banks as shown by mean of 1.71. Agents' prior experience with the banks customers is positively related to both performance and survival as shown by a mean of 1.83. Time spent in agency banking is low compared to the normal banking as shown by mean of 1.86 and finally that costs involved in transacting in agency banking is low compared to banking hall as shown by a mean of 1.91. All the cases were supported by low mean which implies that respondents were of the similar opinion. The study further established that favorable transaction costs within banking agencies compared to the main bank branches acted as a lock in strategy where majority of the customers preferred using local banking agencies thereby ensuring the sustainability of the local agency banking which contributed to improved performance.

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Table 10: Performance of Agency Banking as per 2015

Name of the Bank	Number of Agents	Number of Transactions per agent	Volume of money flowing through the agents	ROA	Mean	Std Deviatio n
KCB Bank	956	68	40,000, 000	42.7	2.667	0. 4721
Equity bank	1,746	95	40,740,000	50.4	1.9817	0.48034
Bank of Kigali	486	85	20,360,000	38.4	2.0628	0.08968
Cogenbanque.	356	65	5,250,124	25.5	1.22	0.2354
Total	3,544	313	66,350,124	157	7.935	0.80542

Source: computed by researcher using data extracted from annual reports of banks (2015)

The Findings in Table 10 indicates that out of 17 registered banks in Rwanda 4 banks 8 have rolled out the agency banking service with KCB, Equity bank, Bank of Kigali and Cogenbanque showing significance performance index as shown by the overall evaluation of 4.63, 4.16 and 3.98 respectively. However other banks that have rolled up the service (I & M bank, Banque Populaire Du Rwanda, Access bank GT bank) did not show much significance performance index. The findings further showed that yearly performance improved significantly from the year 2012 as shown by, 20% (2013), 30 % (2014) and 35 % (2015) respectively. This implies that agency banking is continuously improving leading to significance increased financial performance in those banks that have rolled up the service due to its convenience and efficiency in operation.

# 4.5 Regression analysis

Table 11 Model analysis

Model	R	R Square	Adjusted R Square	Std. Error of the estimate
1	0.411(a)	.312	.303	.69440

Adjusted R squared is coefficient of determination which tells us the variation in the dependent variable due to changes in the independent variable, from the findings in the above table the value of adjusted R squared was 0.303 an indication that there was variation of 30.3% on the financial performance of commercial banks due to changes in central bank regulation, low transaction cost, financial service accessibility and market share at 95% confidence interval. This shows that 30.3% changes in financial performance could be accounted to changes in central bank regulation, low transaction cost, financial service accessibility and market share. R is the correlation coefficient which shows the relationship between the study variables.

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Table 12: ANOVA<sup>a</sup>

Model		Sum of Squares	df	Mean Square	F	Sig.
	Regression	.575 <sup>a</sup>	3	.192	11.388	.000 <sup>b</sup>
1	Residual	1.379	82	.017		
	Total	1.953	85			

a. Dependent Variable: Performance of Organization

b. Predictors: (Constant), Financial Service accessibility, Central Bank Regulation, Market share, low cost transaction

Table 12 presents the results of Analysis of Variance (ANOVA) on effects of agency banking on the financial performance. The ANOVA results for regression coefficient indicate that the significance of the F is 0.00 which is less than 0.05. This implies that there is a positive significant relationship the effect of agency banking and performance of commercial banks in Rwanda and that the model is a good fit for the data

Table 13: Coefficients

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		В	Std. Error	Beta		
1	(Constant)	.525	.231		1.973	.106
	Financial Service accessibility	.025	.009	.444	1.815	.009
	Central Bank Regulation	.275	.050	0.252	3.616	.036
	Market share	.204	.017	1.075	3.159	.025
	Low transaction Cost	.321	.240	.230	.850	.028

From the data in the above table the established regression equation was

$$Y = 0.525 + 0.025 X1 + 0.275 X2 + 0.204X3 + 0.321X4$$

From the above regression equation it was revealed that holding central banks regulation, low transaction cost, financial service accessibility and market share to a constant zero, financial performance would be at 0.525. A unit increase in central banks regulation would lead to increase in financial performance by a factor of 0.025, a unit increase in low transaction cost would lead to increase in financial performance by a factor of 0.275, a unit increase in financial service accessibility would lead to increase in financial performance by a factor of 0.204 and unit increase in market share would lead to increase in financial performance by a factor of 0.321.

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## 5.1 Conclusion

From the findings and summary the study concludes that the move by the central bank regulate agency banking had a high positive influence on the financial performance of commercial banks in Rwanda. Central Bank regulation helped to promote efficiency and confidence in the financial system thus winning public trust.

The study also concludes that low transaction cost through agency banking had a positive impact on the financial performance of commercial banks in Rwanda with many of the banking institution recording high amount of deposits and thus creation enough pool of for willing investors to borrow.

The study further concludes that financial services accessibility by customers through banking agencies had a positive impact on financial performance of commercial banks in Rwanda with many of the banking institutions indicating that agency banking had made it easier for them to reach out to many potential clients without investing so much in opening branches hence it's a cost effective measure.

The study concludes that increased market share had a positive effect on the financial performance of commercial banks with many baking institutions indicating that increased market share allowed a company to achieve greater scale in its operations which generally improved profitability.

#### 5.2 Recommendation

From the summary and conclusions the study recommends that Central Bank should consider coming with a clear agency banking regulatory policy which creates a universal platform for all banking institutions. This will enhance fair market completion and thus barring financial institutions from customer exploitation. The study recommends that the financial institutions should continue offering low transaction rates within their local agency points. This will lure customers to adopt this as a culture thus ensuring the future sustainability of the agency banking system.

The study recommends that the banking institutions should considered intensifying the agency banking network which will ensure services accessibility by customers and thus improving financial performance.

Finally the study recommends that banking institutions should consider coming up with lock in strategies for the already captured market. This will award more power to the bank in controlling the prices and services it offers to its customers.

## 5.5 Areas for Further Research

The study sought to determine the effects of agency banking on financial performance of commercial banks in Rwanda. The study recommends that a study should be done on the challenges facing the adoption of agency banks by commercial banks in Rwanda

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