$See \ discussions, stats, and author \ profiles \ for \ this \ publication \ at: \ https://www.researchgate.net/publication/349679018$ 

# Mobile Loan Lenders Interest Rates and Wakulima Market Growth Performance in Nairobi County (2)

Presentation · March 2021

DOI: 10.13140/RG.2.2.20654.64324

citations 0		READS 29
1 author:		
	Ndirangu Ngunjiri University of Nairobi 113 PUBLICATIONS 1 CITATION SEE PROFILE	
Some of the authors of this publication are also working on these related projects:		

Project

EFFECTS OF SALES, PROFITS AND RETURNS ON PERFORMANCE OF STOCK PRICE OF COMPANIES LISTED IN THE NAIROBI SECURITIES EXCHANGE View project

Project

POVERTY INCREASES CRIME RATE IN URBAN AREAS View project

All content following this page was uploaded by Ndirangu Ngunjiri on 28 February 2021.



# University of Nairobi

Mobile Loan Interest Rates and Wakulima Market, Growth Performance in Nairobi County

Ngunjiri Ndirangu

School of Business, University of Nairobi

**PhD Student** 

March 2021

# Contents

Abstract	4
CHAPTER ONE	5
INTRODUCTIONBackground of the Study	5 5
Problem Statement	6
Research Ouestions	7
Research Objectives	7
Justification of the Study	7
Scope of the Study	8
Limitations of the Study CHAPTER TWO	8 9
Literature Review Typical Agricultural-Based Market Operations	9 9
Socio-Economic Benefits of Wakulima Market	11
Performance of the Market and Challenges with Mobile Lending	11
CHAPTER THREE	. 13
Research Methodology Units of Observation and Analysis	<b>. 13</b> 13
Research Methodology Units of Observation and Analysis Research Design	<b>13</b> 13 13
Research Methodology Units of Observation and Analysis Research Design Study Respondents	<b>13</b> 13 13 13
Research Methodology Units of Observation and Analysis Research Design Study Respondents Sampling Procedure	<b>13</b> 13 13 13 13
Research Methodology Units of Observation and Analysis Research Design Study Respondents Sampling Procedure Sampling Techniques	<b> 13</b> 13 13 13 13 13
Research Methodology Units of Observation and Analysis Research Design Study Respondents Sampling Procedure Sampling Techniques Data Collection Methods	<b> 13</b> 13 13 13 13 14 14
Research Methodology Units of Observation and Analysis Research Design Study Respondents Sampling Procedure Sampling Techniques Data Collection Methods Data Analysis Procedure	13 13 13 13 13 13 14 14 14
Research Methodology Units of Observation and Analysis Research Design Study Respondents Sampling Procedure Sampling Techniques Data Collection Methods Data Analysis Procedure Ethical Considerations	13 13 13 13 13 13 14 14 14 15
Research Methodology   Units of Observation and Analysis.   Research Design   Study Respondents.   Sampling Procedure.   Sampling Techniques.   Data Collection Methods   Data Analysis Procedure   Ethical Considerations.	13 13 13 13 13 14 14 14 15 16
Research Methodology   Units of Observation and Analysis.   Research Design	13 13 13 13 13 14 14 14 15 16 16
Research Methodology   Units of Observation and Analysis   Research Design	13 13 13 13 13 14 14 14 15 16 16
Research Methodology	13 13 13 13 13 14 14 14 15 16 16 16
Research Methodology   Units of Observation and Analysis   Research Design	13 13 13 13 13 13 14 14 14 14 15 16 16 16 16

Reason for Being in the Market	
Duration of the Existence of the SME	
Number of Employees	19
Mobile technologies Adoption and Performance of SMEs	
CHAPTER FIVE	
Summary of Findings, Conclusions and Recommendations Summary of Findings	<b>21</b>
Conclusion	21
Recommendations	21
References	

### Abstract

Mobile lending refers to the process of lending over hand-held devices by a financial firm to an applying customer. Mobile-based lending has grown in Kenya over the last 10 years with estimates placing the platforms over 49. The problem with the industry, is that it is mostly unregulated despite including some of the biggest financial players such as Equity Bank, Kenya Commercial Bank and Cooperative Bank. The explosion of the industry is made possible by the expanding financial technology industry. Despite the small amounts of loans offered, interest rates are very high, some in excess of 43% with the borrower charged for late payments. The platforms depend on constantly attracting new borrowers sending unsolicited messages and utilizing aggressive methods such as contacting friends and family when seeking repayment. It is usually unclear what the borrower will have to repay and the terms of agreement. This is a problem because the users of the platforms are usually the poor and unbanked. The aim of this research is to determine the effect this exorbitant mobile lending rates has on the growth and socio-economic outcomes of this crucial part of the population with a focus on vendors and customers who utilize Wakulima market in Nairobi County, Kenya. Small and medium enterprises (SMEs), which form the largest part of enterprises in the market are particularly exposed to this trend. The study concludes that high mobile lending rates are bound to curtail the growth of SMEs in Kenya especially in agriculturalbased markets such as Wakulima, thus more regulation such as improving disclosure to the borrower on interest rates and reforming the current digital credit system.

#### **CHAPTER ONE**

#### **INTRODUCTION**

#### **Background of the Study**

The prevailing notion in developing countries is that the poor and those of low income are not bankable. Mobile banking options available have dispelled this belief. The development of mobile banking in developing nations are in line with Sustainable Development Goals (SDGs) that aim to create a better fairer world by 2030. The SDGs set in 2015 by the United Nations are meant to serve as a blueprint to ensure no country is left behind especially those in the developing world. Among the 17 targets of the goals is eliminating endemic and cyclical poverty.

Mwangi (2018) highlights how financial technology has been influential in aiding the growth of medium and small enterprises in Wakulima market and other avenues of selling small wares. She highlights how information technology has worked miracles for financial institutions. In 2005, the UN dubbed the year as one for awakening of microcredits. The frontrunner, Muhammed Yunus, was awarded a Nobel Prize in 2006 as a prophet for the development of microfinances in the developing world mostly fueled by information technology.

In the African context, the main drivers of growth medium and middle-sized enterprises. They are integral to the economies since they generate employment and wealth to a majority of the people. Middle and small enterprises receive a lot of attention in Africa because they are linked to the rural economies, which form the backbone of the countries in the continent promoting equitable distribution of income.

Development partners and policymakers on the continent agree that information communication technology plays a critical role in promoting growth and development globally. The relatively low adoption among medium and small enterprises in the developing world is cited as a major hindrance to their growth. ICT has the potential of streaming operations in the business, which often fail within the first five years of formation due to high fixed costs. The parameters for evaluating performance of an MSE is formation, growth, survival, success, and competitiveness.

Many in developing countries grow vegetables and other edible products most for domestic use but also to sell to generate daily income. It is a vital source of income for many poor small households and those involved within the supply chain. This paper highlights the major constraints of and identifies potential opportunities for improving the efficiency of domestic vegetable marketing systems in two countries – Kenya and Tanzania. Emphasis is given to tomato and onion as commonly marketed and consumed vegetables throughout the region. The authors also look at indigenous vegetables marketed domestically. Finally, they consider the importance of the export vegetable subsector as a role model for improving the efficiency, growth and economic value of domestic vegetable marketing systems in East Africa.

## **Problem Statement**

The current report highlights the main constraints of running SMEs and identifies potential opportunities such mobile technologies solutions for improving the efficiency of domestic vegetable marketing systems within agricultural markets such as Wakulima. Emphasis is given to sellers selling small wars such as edible vegetables and other fast-moving products. ICT can be an important tool of the SME subsector as a role model for improving the efficiency, growth and economic value of many in developing countries.

SMEs are a key pillar in social and economic development in Kenya. They encourage participation of majority of the population and foster equity in the distribution of resources. When economic empowerment opportunities are available in marginalized areas, they enhance quality of life and stimulate growth of the overall economy. The active poor rural dwellers can focus on income generating ventures knowing that other logistical aspects are readily available. Technology adoption is part of SMEs reviewing operational processes.

Technologies such as mobile banking and internet banking and even marketing through short messaging have a potential of smoothing operations in the sector. Vendors can access information, pay, and receive funds anywhere and anytime. However, the benefits are many, there needs to be caution due to low penetration of ICT in the region. Still IT tools are invaluable in improving, transforming, and redefining SMEs. The major issues in implementing mobile solutions frameworks are trust and legislation. In markets such as Wakulima set up to serve people of low-income and literacy, they may be the notion that the systems are not secure and are unreliable.

Kigen, (2011) assert that despite the challenges the benefits are many in SMEs adopting mobile solutions. Flexibility is one advantage, thereby, increasing customer service quity. Other benefits include bridging the information, decreased cases of fraud and theft, and easy payments. The researchers dismiss the prevailing argument that mobile phones are a means of reaching rural populations. However, they agree that they reduce operational costs translating into financial and non-financial parties to a transaction. Studies done in places such as in Brazil, Asia, and Africa show that using mobile payments solutions are cheaper than using conventional banking. The purpose of this study is to establish how SME vendors in agricultural-based markets such as Wakulima have benefited by revamping operational processes by embracing mobile technology solutions.

## **Research Questions**

- 1. Has use of mobile banking led to reduction in operational costs for smallholder vendors in agricultural-based markets such as Wakulima?
- 2. What is the rate of increase in SMEs adopting information technologies in their operations?
- 3. How has mobile banking improved service provision and the challenges vendors and customers using mobile-based technology solutions?

## **Research Objectives**

- 1. To determine the benefits accruing to both parties in terms of reduced costs and time spent due to use of mobile banking.
- 2. To establish the increase of new vendors and customers preferring the use mobile-based technologies in transacting.
- 3. To investigate the performance of the market in service provision and challenges both parties face using mobile-based technology solutions in their daily operations.

### Justification of the Study

The research is of value in determining whether mobile-based solutions in SMEs translates into lower costs and time spent in a transaction. The users of the information will include the SMEs, development partners, scholars, and the clients themselves. The current study aims to provide new information based on empirical research. The mobile-based solution providers will use the information to know the challenges their users face and areas of improvement. The government through relevant ministries can know areas to improve in terms of policy and strategy.

## Scope of the Study

The study was conducted in Wakulima market in Nairobi County, Kenya. Random sampling method was used to select the respondents of the study. The study focused on the transactional costs members pay to access the telecommunication and banking services now that are available through multiple channels. The socio-economic benefits aspect focused on performance of the market in service delivery and the challenges parties encounter when using the services. The socio-economic aspect surveyed the benefits they derive. The performance looked at the services provided, satisfaction, and areas of improvement. The challenges aspect focused on the difficulties encountered when seeking services such turn-around time for processing payments and access to 24/7 helpline services.

# Limitations of the Study

Access to respondents such as vendors, clients, documents and data was one limitation of the study. Appointments to access vendors is limited since they are responsible for the day to day running of the SMEs. However, the response rate was satisfactory to draw conclusions and recommendations. SMEs have different models of operation; hence, generalization of the findings may be misleading.

### **CHAPTER TWO**

#### **Literature Review**

The section highlights empirical information on thematic literature from the area of study. The specific areas covered are typical agricultural-based market operations, socio-economic benefits to vendors and clients adopting mobile-based solutions, and market's performance in the face of challenges that parties encounter transacting through mobile technologies.

## **Typical Agricultural-Based Market Operations**

The main target populations of SMEs are those that cannot afford shopping in supermarkets and high streets. They usually require small amount of capital and it is difficult to obtain information from them about their financial records as they do not keep formal records. The security required by formal banks is far beyond their reach. Hence, they keep their operations small and cannot expand beyond a certain point.

SMEs play an important role of income generation for the majority as well employment drivers. They do not enjoy economies of scale compared to the big grocery chains, hence have to keep to their operational costs low to cut even or even survive their first year of initiation. To earn a profit, SMEs have to charge the full cost of production plus mark-up, which many consumers find exorbitant at times. According to Rhyne and Holt (1994), SMEs should adopt a number of principles to ensure financial viability. One is reducing unit costs by streamlining operations. They should make processes simple and standardized.

Donor agencies should aim to build the capacity of SMEs to promote innovation through development assistance. They can streamline and improve business processes through technology to reduce cost. Apiah & Adu, 2012). establish a clear link between financial innovation and reduced transaction costs. Financial innovation is adopting something new such as a product. Economists use the term to describe shocks to the economy as well as a response to the shocks. Thusly, financial innovation implies to creating and popularizing new financial instruments, institutions, markets, and technologies. The innovations can be in form of streamlining processes or a product. For example, vendors in the United States have experienced rapid innovation owing to advanced capabilities in telecommunications and data processing, which are at the heart of business development.

A brief history of technology-driven innovation goes beyond even before the 20<sup>th</sup> century. For example, the telegraph in existence by the mid-1800s soon became a tool for propagating price information and transfer of funds. The invention of the telephone in 1876, soon found its way into business operations the following year. The establishment of the Federal Reserve Bank in 1913 saw the development of electronic fund transfers. The introduction of credit cards in the 1950s was heralded as phenomenal technological innovation (Mishra, 2008).

Mobile banking is the new frontier in business development. It is the provision of services through mobile networks by hand-held devices. There are many forms of mobile banking, which may not meet the definition in legislation contexts in some countries. On top of payment and transfer, Dabholkar, et al. (2013) identifies two other types in the form of additive and transformational mobile-based payment solutions. However, the three main models of mobile banking are bankled, telco-led, and hybrid. In bank-led, the bank introduces mobile banking as an extension to their services. The Equity Bank's 24/7 mobile banking solution is a good example where customers can access services through their own network. In telco-led, the telecommunication company provides mobile banking services using its own infrastructure while in a hybrid model, the telecommunication company provides infrastructure to a financial institution to offer mobile banking services. A good example is KCB-MPESA, which provides mobile loans and saving plans.

The transaction cost for vendors and consumers implies to the total implicit and explicit costs of undertaking in a transaction. The transaction costs for vendors includes expenses paid to telco and financial companies for utilizing their services. For the customer, the costs include charges for sending payments, travelling costs, and their time. Ndungu, (2015) argues that technological innovation has the potential to reduce costs, reach the unbanked population, and increase efficiency. The transaction cost innovation theory argues that the dominant factor in financial innovation is transactional reducing costs (Li and Zheng, 2010).

SMEs can leverage financial innovation in facilitating payments and having a platform for record keeping. An example is the MPesa platform, which has gone on to be among the most successful mobile payments service in the world. Currently, SMEs use MPesa platform for fund payments, keep records, and access mobile and other microcredit loans.

#### Socio-Economic Benefits of Wakulima Market

Wakulima market employs about 60,000 people directly and over 100,000 others indirectly. Vendors take charge in direct purchasing of the goods and services they need and even through even employing people to market their produce. Apart from generating employment, the market serves as an important avenue for providing source of opportunities for people within the value chain. Through the multiplier effect, this indicates the opportunities for income spills over to great number of people, which shows how they are vital in reducing and preventing poverty in Kenya (Baumiiller, 2015). SMEs have given opportunity to many to educate their children, purchase land, farm, build houses, invest in their businesses, and solve other household needs.

Most of the SMEs operate as sole proprietor business entities, hence are easy to form compared to others, which exhibit complex structures. They mostly concentrate on simple activities such as agribusiness aimed at economic empowerment. In Kenya, the SMEs that do not yield economic empowerment fail very quickly. To avoid this trap, most concentrate on simple businesses that yield income very quickly.

SMEs also contribute towards gender empowerment given the users of the service own them. As they achieve economies of scale, they give their owners increased earning power and social protection. SMEs avail their members' opportunity, protection, and empowerment to uplift them from poverty (Apiah & Adu, 2012). Their main goal is to provide what their customers need at minimal cost.

The collective action of the members of the market such vegetable vendors established Wakulima help foster innovation and marketing. The members can then access new technologies such as mobile banking using collective resources such as merry-go-round funds. Collective marketing facilities lead to economies of scale reducing costs of marketing their products. The core mandate of collective action in this market is to boost economic interest of members by enabling them to accumulate savings and pay off loans they accessed to start their businesses.

#### Performance of the Market and Challenges with Mobile Lending

It implies to how well the market is performing in terms of service provision and empowering its users. How well a market operates mostly depends on how efficiently they are in availing the products and services consumers need and the ease of transacting. Removing bottlenecks is important because reducing inefficiency affects overall performance. Adoption of financial innovation has generally transformed operations at the market. Technological advancement helps vendors have access to decision making tools improving capacity to track performance adequately.

An example of a country that can use financial innovation in its markets is Tanzania, which has not adopted mobile-based technologies compared to Kenya (Clark, 2017). Utilizing technological advancements such as mobile banking can help tackle issues such as adhering to simple accounting system requirements, keeping up-to-date records, and quick access to loans for expansion.

Although there are no standardized ways of evaluating performance of a market. Efficiency can be one parameter. The aim is to have in place a policy that emphasizes accountability and transparency transacted funds. Vendors should have a medium of confirming daily sales and purchases. Mobile-based deposits can help mobilize savings and improve soundness of management of SMEs (Aker & Mbiti, 2010). Technological systems can help in continuously educating and enticing other market members to save regularly. Members who wish to borrow can have the financial records required by lending institutions.

Developing tailor made products especially targeted at SMEs taking into consideration the activities people are engaged in will help fuel growth farther. The products offered should be in demand, which meets their daily requirements such as having access to a quick loan to purchase stock. Government and donors should provide the funds for capacity development, for example, for educating illiterate vendors on how and the importance mobile-based technologies. Revising legal frameworks as well as regulatory framework will help markets such as Wakulima, which are critical to a developing economy such as Kenya continue embracing financial innovation to alleviate endemic poverty and foster economic equity.

#### **CHAPTER THREE**

#### **Research Methodology**

The areas discussed in this chapter includes units of observation and analysis, research design, study respondents, sampling procedure, sampling techniques, data collection, data analysis procedure and ethical considerations.

#### **Units of Observation and Analysis**

The unit of analysis was transaction costs and socio-economic benefits to members of Wakulima market. The unit of observation were market users themselves.

#### **Research Design**

The study opted for a descriptive research design because it helps bring out the variables sought to be observed. The design can bring the characteristics of the population while validating the existing conditions regarding efficiency. The descriptive design can describe population, prevailing situations, or phenomenon.

### **Study Respondents**

The study respondents were users of Wakulima market in Nairobi County. Focus group discussion with ten venders in the market were held to seek their opinion on transaction costs on mobile-based technologies and the improvement of efficiency to their operations. Other respondents included vendors and customers. Other respondents were purposively sampled including employees from mobile-based technology providers and government.

#### **Sampling Procedure**

The study population included the market's daily 20,000 daily users. The simplified formula used is as follows:

 $a = A/1 + (A(e)^2)$ 

where a is the desired sample size

A total population

E the level of confidence which is 95 percent e=0.05

 $a = 22,442/1 + (22,442(0.05)^2)$ 

## = 393 members

The sample size is rather large for a descriptive study, the researcher opted for only 40 percent of the sample size, which results in 157 respondents.

## **Sampling Techniques**

The researcher used multiple stages of sampling. The simplified formula yielded a sample too large, hence central theorem was used to arrive at a sample size of 157. Visiting the market and engaging the venders and customers was crucial in providing access. The other respondents were purposively sampled because they do not visit the market often.

#### **Data Collection Methods**

Sources of information for the study included primary and secondary data. Primary data sources included those collected by the researcher, while secondary was obtained by reviewing materials and documents. Interviews and focus groups were the preferred collection techniques. The tools used by the study were interview schedules and questionnaire. At the site of collection, interviews were sought with a standard request to participate. Once requisite permissions were granted, questions were read to the 157 participants with those able to read and write allowed to fill the questionnaire to save on time. The questionnaire contained open and closed-ended questions.

The key interviews with the purposely sampled respondents were booked in advance. Once permissions were granted, the interviews went ahead as scheduled. The interview schedules proved crucial with answers filled as given. Three focus groups were held to collect information in a group setting to encourage discussion. Permission was sought from random members who congregated at a popular sitting point where questions were asked and answers filled in an interview schedule.

#### **Data Analysis Procedure**

The study generated both qualitative and quantitative data. Qualitative was in the form of identifiers, properties, attributes, and labels while quantitative was statistical in nature. Most of the quantitative data was from questionnaires while qualitative derived from interviews. The analysis was done through SPSS and presented in form of tables, percentages and proportions while qualitative data was analyzed based on thematic areas.

# **Ethical Considerations**

An introduction letter was sought from the university research board and presented to city council of Nairobi. The letter was important in the introduction of the researcher to potential respondents to seek permission to administer the questionnaire or interview. Other ethical considerations were adhered to including informed consent, anonymity of respondents, and insurances that any information received was purely for academic purposes and would be treated with confidentiality.

# **CHAPTER FOUR**

## **Data Presentation and Analysis**

## Introduction

Among the main objectives of the study was to establish the effect of use of mobile banking on transaction costs and growth prospects of Wakulima market. This chapter include data analysis, presentation and interpretation on the findings in the study. Data was collected from entrepreneurs and traders at Wakulima market in Nairobi County. Data collected was interpreted as per the research questions.

# **Questionnaire Response Rate**

The study issued 200 questionnaires out of this 140 were duly filled and returned. The results are as shown in Table below

Target Respondents	Actual Respondents	Percentage
157	140	89%
Total	140	89%

The translation rate is thus 89% response rate. A return rate of 50% is acceptable according to Mugenda and Mugenda (2003), therefore, this response rate deemed fit for the study.

# **Background of the Respondents**

The respondents were of diverse gender, age, reason for being in the market, and level of education.

# Gender

The respondents were to indicate their gender since this shall enable the study to categorize respondents based on gender and if it has any influence on performance of the SME and their willingness to adopt information technology in their businesses. The table below shows the results.

Gender	Respondents	Percentage
Male	82	59%
Female	58	41%

From the findings tabulated in the Table above the study determines 59% of the respondents were male while 41% of the respondents were female, implied that Wakulima market is dominated by males than females.

# **Respondent's Age**

The questionnaire requested indication of the age bracket to enable categorization of respondents based on age and if it has any influence on their willingness to use mobile-based technology in their SMEs. The table below shows the results.

Age Bracket	Frequency	Perecentage
18-30	32	23%
30-40	54	39%
40-50	32	23%
Over 50	22	15%

From the results, majority of the respondents were in the 30-40 (39%) age bracket, 32 (23%) of the respondents were aged between 18-30, 32 (23%) between the ages of 40-50, while 22 (15%) were in the over 50 age brackets. The clearly indicates that majority of those who own and visit Wakulima Market are youths rather than the aging.

## **Reason for Being in the Market**

The study was sought to know the reason for the respondent being in the market. This was crucial in order to ascertain whether the study was targeted the right group. The results were as in the table below

Respondent	Frequency	Percentage
Customers	45	32%
Employee	23	16%
Entrepreneur	72	51%

Results indicate that majority of the respondent were entrepreneurs, followed by customers and then employees. This indicated that the study targeted the right population for the study.

# Level of Education

The respondents' education level was important to enable the study to categorize whether it had an influence on their willingness to use readily available mobile technology solutions in the market. The results are as shown in the table

Education Level	Frequency	Percentage
Primary	15	11%
Secondary	70	50%
Tertiary	44	31%
University	11	7%

Results indicate that majority of the respondents were literate and applied their skill to learn their businesses and improve processes such as having multiple means for their clients to pay and access quick loans for expansion from available channels.

# **Duration of the Existence of the SME**

The questionnaire asked the respondents to indicate the duration they have been in business to enable categorization according to the duration and the performance of the SME such as availing their customers multiple channels for payment. The results were as in the table below

Year	Frequency	Percentage
Below 1	5	8%
1-5	65	42%
5-10	40	29%
10-15	18	18%
Over 15	12	12%

Findings iindicate that most of the SMEs at Wakulima market are between operated between 1-5 years, followed by 5-10 years. Businesses that have been in existence for less than a year were the least followed by those that are over 15-year-old.

#### **Number of Employees**

The parameter enabled the study to establish the relative size of the businesses within the market and how it has an influence on performance of the SMEs such as availing mobile based technologies within the business. The results are shown in the table below

Number of	Frequency	Percentage
Employees		
1-2	6	5%
2-5	14	18%
5-10	30	42%
10-15	12	9%
Over 15	10	14%

The results show that businesses within the market clearly fall within the SME category as most have relatively low number of employees. However, due to sheer number of enterprises and multiplier effect, the market does have the socio-economic benefit of employment creation and income generation for many.

#### Mobile technologies Adoption and Performance of SMEs

The aim was to investigate the correlation between adoption of mobile-based

technologies and the performance of SMEs in the market. There was a strong correlation between an SME utilizing mobile-based technologies and its performance. The SMEs that availed customers mobile-based payment solutions to their customers reported higher sales than those that did not. The results concurred with the current study's hypothesis that SMEs that embrace mobile-based technologies perform better. The results also indicated a strong correlation between access to mobile lending and performance as well as access to merchant e-commerce finance and performance.

## **CHAPTER FIVE**

#### **Summary of Findings, Conclusions and Recommendations**

The chapter presents a summary of the findings, conclusion and recommendations.

#### **Summary of Findings**

Most of the respondents in the research were male than female. The implication is that more males own businesses in Wakulima market than females. Majority of the respondents were below the age of 40 years implying most the working population in the market are youths. Majority of the respondents were entrepreneurs mostly because the researcher approached them first. They were closely followed by customers because the study wanted to establish their experience accessing services at the market. The other respondents were employees, employees of mobile service providers and government to make up the shortfall in the number of respondents. Most of the respondents had access to basic education indicating their ability to learn and improve on the operations of their business (Communication Authority, 2013). Most of the businesses had modest number of employees indicating they fall under the SME category.

## Conclusion

Based on the findings, the conclusion of the current research is that mobile-based technologies have a positive impact on performance of SMEs with the relationship statistically significant. Business vendors at the market are able to receive payments from their clients seamlessly, access loans through their mobile phones, and even organize themselves collectively. The conclusion also is that the market has a socio-economic impact on many providing employment and a source of income. The number of businesses has increased since the introduction of mobile technologies in the market.

#### Recommendations

The current study recommends more studies on the impact of mobile-based technologies on the SME economy in other markets in the region. More mobile-based solutions are being introduced with the impact on the SME yet to be established. The study recommends increased adoption of technology among SMEs to increase the impact in the economy reducing poverty and improving economic and social equity.

#### References

- Aker, L. & Mbiti, C. F. (2010). Micro and small scale enterprises in South Sudan. *Economic Development and Cultural Change*, 3 (1), 7-21.
- Apiah, O. & Adu, M. E. (2012). ICT impact on competitiveness, innovation and environment.
- Baumiiller, H. (2015). Agricultural Service Delivery Through Mobile Phones: Local Innovation and Technological Opportunities in Kenya.
- Clark, F. D. (2017). User acceptance of information technology: System characteristics, user perceptions and behavioral impacts. *International Journal of Man Machine Studies*, 38(3), 475-487.
- Communication Authority, (2013). New Market Structure and the Kenyan Telecommunication Space. Nairobi: CA Printers.
- Dabholkar, P. A., Bagozzi, R. P. & Ptaraum, R. (2013). An attitudinal model of technologybased self-service: Moderating effects of consumer traits and situational factors of telebanking. *Journal of the Academy of Marketing Science*, 30(3), 184-201.
- Gitau, R. W. (2011). Lean bank portfolio, financial technology, and financial performance of banks in Kenya. *International Journal of Financial Management*, 29(3), 214-240.
- Government of Kenya, (2012). Kenya Vision 2030: A Globally Competitive and Prosperous Kenya. October 2007. Nairobi: Government Printer
- Kenya National Bureau of Statistics, (2014). *Statistical Abstracts*. Nairobi: Government Printers.
- Kigen, I. (2011). The Impact of Mobile Banking on Transaction Cost of Microfinance Institutions: A Survey of Microfinance Institutions in Nairobi. Master Thesis. University of Nairobi.
- Mugenda, A., & Mugenda, O. (2003). Research Methods: Quantitative and Qualitative Approaches. Nairobi: Acts Press Publishers.
- Mwangi, W. E. (2018). Influence of Financial Technology on the Performance of Micro and Small Enterprises: A Case of Wakulima Market Nairobi, Kenya. Master Thesis, University of Nairobi.
- Ndungu, J, (2015). Factors influencing growth of group owned MSEs: A case of one village one product. International Journal of Education and Research, 1(8), 43-61. Telematics and Informatics, 29(5), 204–210.