# EFFECT OF FINANCIAL TECHNOLOGY USAGE ON GROWTH OF SMALLAND MEDIUM ENTERPRISES IN NAIROBI COUNTY, KENYA

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A RESEARCH PROJECT SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE AWARD OF THE DEGREE OF MASTER OF SCIENCE IN ENTREPRENEURSHIP AND INNOVATIONS MANAGEMENT FACULTY OF BUSINESS AND MANAGEMENT SCIENCES, UNIVERSITY OF NAIROBI.

#### **DECLARATION**

I hereby dec	lare that this	research proj	ect is my	original w	ork and has	not been	presentedir
any other ins	stitution.						

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This research project has been submitted for examination with my approval as the University supervisor.

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# **DEDICATION**

The work is dedicated to my family who supported me throughout the process either financially and also with their good advice and wisdom, gave me the spirit of pushing through till I completed my studies.

#### ACKNOWLEDGEMENT

I would like to acknowledge and appreciate the contribution of everyone who in one way or another has participated in the successful completion of this work.

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# ABBREVIATIONS AND ACRONYMS

**GDP** Gross Domestic Product

**KIPPRA** Kenya Institute for Public Policy Research and Analysis

**RBV** Resource Based Theory

**SME** Small-Medium Sized Enterprises

**SPSS** Statistical Package for Social Sciences

**U.S. A** United States of America

WHO World Health Organization

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#### **ABSTRACT**

Financial Technology (Fintech) has a long history. According to Tufano (2016), the term Fintech was first used in the 1950s. Innovation has been more significant in the money industry throughout time in ways that most people ignore. Organizations are now compelled to use financial technology in order to improve their efficacy and efficiency. SMEs continue to face the challenges of minimally affordable and available financial services to support their operations. Financial technology solutions have a tremendous influence on the financial well-being of many millions of people throughout the globe, particularly the poor. Despite SMEs playing an essential role in the economy, they are plagued by several issues. According to Pius (2020), for every five companies established, only three companies survive past five months and only one survives past five years. 80% of the surviving companies went bankrupt before the fifth year World Bank (2015). The study sought to determine the effect of financial technology usage on growth of Small and Medium Enterprises. The target population was 826 heads of the Small and Medium Enterprises in Nairobi County, Kenya. Structured questionnaire was the main tool of collecting data. Data analysis entailed both descriptive and inferential methods. Descriptive statistics comprised the means and standard deviations whereas inferential statistics entailed simple linear regressions. The respondents agreed that mobile money services, mobile loan services and internet banking are vital for SME growth in Nairobi, Kenya. The study found that mobile money services, mobile loan services and internet banking explain 40.8% growth of SMEs. In addition, ANOVA output suggests that financial technology usage is a satisfactory indicator of SME growth (F value= 44.351, 0.000<0.05). Regression coefficient of mobile money services ( $\beta$ =.303, p-value=0.000), mobile loan services ( $\beta$ =.249, p-value=0.001) and internet banking (β=.198, p-value=0.037) have positive and significant relationship with SME growth. The study concludes that mobile money services as an aspect of financial technology usage has a positive and significant relationship with SME growth. Access to credit is vital for business growth and hence barriers ought to be eliminated. Growth in financial technology has left SMEs with no option but to embrace innovative business models such as application of internet banking. The study recommends development of more products by mobile money service providers that are innovative and capture the aspirations of the users. The access to mobile credit loans services has been characterized by bureaucracies and through reduced restrictions, measures and structures, SMEs stand to benefit more. Internet banking is very important in saving time of queuing in bank halls in order to be served. However, internet infrastructure has been a challenge in most emerging economies especially now that this service is supported by telecommunication network which still remain incomplete in most areas. Therefore, it is recommended that banks and telecommunication providers should develop a product that can access internet even in those areas that have poor network connection. This will help in ensuring that everyone can utilize internet banking in all areas as long as one has access to any form of telecommunication network. Few studies have been done regarding the financial technology usage and this resulted to a limitation of the study.

#### **CHAPTER ONE**

#### INTRODUCTION

## 1.1 Background of the Study

Financial Technology (Fintech) has a long history. According to Tufano (2016), the term Fintech was first used in the 1950s. Innovation has been more significant in the money industry throughout time in ways that most people ignore. Organizations are now compelled to use financial technology in order to improve their efficacy and efficiency. In spite of banks' rapid digital adaptation, Financial Technology rivals are steadily intruding on their conventional business formats (Silber, 2017). Ratio Magazine (2015) stated that new competitors can use solid information to block traditional associations between banks and clients based on the knowledge obtained from the bank- client contact. However, many new competitors avoid seeking bank licenses to avoid compliance costs and steal profitable business activities from banks. Salehi and Zhila, (2018), describes financial technology has positive relationship with growth of SMEs.

The study will be guided by the following theories; financial intermediation theory and Schumpeter's theory of innovation. In the theory of financial intermediation, it is shown how the financial sector supports the saving and borrowing of money in an economic system. Allen and Santomero (1997) came up with the idea, identifying financial intermediation as the mechanism that assures people with surplus money may save them and those with deficits have a place to borrow from. Schumpeter's theory of innovation emphasizes its financial possibilities as a reward for incorporating innovation into the operations of an organisation or company (Lemanowicz, 2015).

The creation of SMEs has been identified by the Kenyan government as a strategy of achieving Vision 2030. Kenyan SMEs, according to Kithae (2017), are responsible for creating 80% of the country's jobs, although contributing just 18% of the country's GDP. Most African countries' economic development and industrialization depends heavily on SMEs. Kenyan SMEs have struggled to perform well and have a positive impact despite being acknowledged as an important sector for promoting industrial and economic growth (Economy Survey, 2019). Whilst access to financing from different financialinstitutions, marketing, and the enhancement of revenue creation, employment and livelihood sustainability are major challenges faced by most micro- and small-sized businesses.

## 1.1.1 Financial Technology

Payment and remittance services are combined with information technology (IT) in the form of financial technology (FinTech), which is also known as FinTech (Lee & Kim, 2015). To put it another way, FinTech refers to financial solutions enabled by technology that encompass the whole spectrum of traditional bank services and products (Arner, 2015). In order to make economic structures more resourceful, a monetary corporation employs technology. The terms financial and technology combine to form the term Financial Technology. It may be summed up as innovative financial services-supporting technology (McAuley, 2015). The efficacy and efficiency with which financial technology provides financial solutions continue to draw public attention. It is possible for financial technology to disrupt and revolutionize finance in several ways, particularly in developing nations.

Financial technology can be measured in terms of mobile money services, mobile loan services and internet banking services. Growth in Fintech has left SMEs with no option but to embrace this new technology (Ndung'u, 2018). SMEs have embraced innovative business models that include improved receipts and payment systems, online invoicing and billing system and effective customer relation (Gavrila & de Lucas Ancillo, 2021). The increased usage of mobile phones in developed economies has enhanced integration of fintech with cellphones. The emergence of mobile payment, mobile banking and mobile finances have been largely adopted by SMEs which has improved efficiency in business operations progressively (Nan, 2019).

#### 1.1.2 Financial Technology Usage

The usage of financial technology in Kenya traces back to 2007 when M-Pesa was first introduced into the market (Misati, Kamau, Kipyegon & Wandaka, 2019). As far as development in mobile industry is concerned, development within credit institutions have equally flourished in Kenya. Technology advancement as seen mobile financial services and credit institutions integrate so fast. The transformation has seen the sector make several strides, which are innovative in nature especially shifting to cashless and other forms of invisible unlike the previous, which was more of materialistic. Fintech development has brought various mobile applications that gathers both credit and banking services. There are several mobile money, credit and banking products which include; KCB M-pesa, Branch, Eazzy loan, Timiza, M-Shwari, M-Co-op Cash, M-kopa (Tala) among others. It was evident that the emergence of new strategic partnerships of telecommunication companies and financial institutions have yielded more number of Fintech services offered in 2012-2015 (IFC, 2015). Gubbins and Totolo, (2018) remarked that with emergence of mobile money services and credit such

M-shwari, many small traders have benefited from several services offered such as savings and digital credit and later on aided expansion from financial institutions to non-financial institutions.

Revolution of Telecommunication in Kenya has revolutionized financial systems in the country. Inception of M-pesa by Safaricom, one of the largest provider of telecommunication in the country offered SMEs with the opportunity to make payment, withdrawals, save and deposit money. Haggin (2021) noted that SMEs find it easier to utilize mobile money transaction in comparison to bank transactions. According to Mbogo (2010), SMEs have adopted mobile payments as way of settling their business transactions and M-banking in transacting their financial services. The 'Lipa na M-pesa' product has provided SMEs with an opportunity to transact payments.

According to KNBS (2016), SMEs operatives with cellphone application constituted 40%, 29% of the proprietors had registered on care tab/till clients, while 49% of users preferred cash as ways of transacting business. Deloitte (2016) established that 90% of the largest Fintech firms have established loaning administration or installment stages for SMEs. The communication authority of Kenya has supported this process through versatile trade with individual-to-individual installment that accounts 85.4% as compared to 8.4% previously.

It is estimated that there are over 49 digital lenders in the country currently (Totolo, 2018). This rivalry awakened traditional lenders in the market specially to innovate their products for it to remain quality in the financial market. Banks have already rolled out innovative credit digital products for instance KCB M-pesa, Timiza, Eazzy, Tala, M-shwari, Okash, Branch, Mkopo Rahisi and the latest overdraft product by Safaricom known as Fuliza. Otiso et al (2013) observed that M-banking has helped SMEs to process loans proceeds, withdrawals and depositing of their finances.

## 1.1.3 Growth of Small and Medium Enterprises

Most firms' strategies aim at growth (The Economist Intelligence Unit, 2017). They always work towards obtaining a sustainable growth rate in the market and remain competitive. Mosley (2019) articulated that even though most firms work to reach a high growth rate, the rate is always risky. Growth is always risky even if supported by the underlying operational policies and it remains a challenge that a firm is required toachieve. Growth of an industry exerts pressure on the employees and the industry's infrastructure. This results into an increase in the number of the risk errors that experienced in ways such as omission or commission. The errors that experienced usually destroy value and cost of money.

There exists several ways of measuring business growth which includes number of employees, sales

revenue, profits and in market and technology domain. There is no universally accepted measure of growth (Gormoma, 2016). He contends that of theoptions presented, none of them considered the most suitable measure. As per Leseyio (2014), the growth in sales, growth in market share as well as new and improved products is a reflection of an organization growth. Entrepreneurship mindset is critical in decision making especially issues touching on the growth of SMEs (2019). Entrepreneurial motive exists, which profit is seeking, as stated by Hashimoto (2016) who claims that businesses expand because they have resources that are not completely exploited inside the business.

Firm expansion is seen as a secondary objective, with survival being the most crucial one. The expansion of SMEs is often linked to their overall survival and success. When an aim is to reach growth, it is always easy to survive and succeed. In most cases, growth is usually termed as measure of a business success (Koech, 2017). Also, growth is an important and efficient indicator of how the small and micro enterprises are performing and whether they will be capable of survival. In addition, growth is also an important precondition that indicates that the firm has achieved its business goals. In the case of SMEs, growth usually indicates to the owners that the firm is on a long term basis thus growth is a long term measure of performance (Leseyio, 2014). Firms which always have the chances of growing, always have a double indication of survival in the long term thanfirms that are less likely to survive.

In this study, the growth of SMEs will be measured using profits, sales growth, market share, customer base and return on investment.

## 1.1.4 Small and Medium-Sized Enterprises in Nairobi, Kenya

The SMEs Act of 2012 defines a small business as one with less than one hundred full- time workers (GoK, 2018). Specifically, a small enterprise has full-time employees between 10-49 while, a micro enterprise has less than 10 employees. The public procurement and county disposal act provides that SMEs registered a maximum of Kshs 500,000.00 as annual sales. This make SMEs less economic influential as compared to companies that record a significant amount of sales. Small and medium-sized enterprises (SMEs) generate revenue and create employment in low-income regions, according to KNBS estimates (2016). Between 1993 and 2008, this portion increased the country's GDP by 13.8 percentto 40 percent. In regards to country's wealth, 14% of the country's GDP is generated by SMEs (Mullei & Bokea, 2019). SMEs in Kenya are becoming major economic and national contributors since they provide employment that generate revenue and improve living circumstances for small-scale business operatives.

In Nairobi County, several of the SMEs buy goods and services from a primary sources and thereafter resale it to the consumers. It is therefore noted that many of the SMEs form larger group of retailers where they sell products and services to end users (Mugo, Kahuthia & Kinyua, 2019). There several business classified in Kenya under retail category and they include SMEs, stores with full services, supermarkets among others. Businesses in Nairobi classified further as either small or medium and small number of employees and low turnover characterizes these businesses. It was evident that many of the businesses registered are sole proprietor. Moreover, others have not been registered and thus are not eligible to use business names. Kenya has managed register few SMEs as compared to ones operating unregistered as provided by country's Companies Act, Cap 486.

#### 1.2 Research Problem

The invention of technology can extend services related with financial to non-banking or affordable financial services, which are easy to use, effective and reliable. Appropriate innovation is required for SMEs who faced challenges cheaper and available financial services to support their activities. Financial technology solutions have a tremendous influence on the financial well-being of many millions of people throughout the globe, particularly the poor. Nearly three billion individuals without bank accounts now have access to financial services because of change, says Miller (2016). Financial technology (fintech) firms have had to develop in numerous areas due to the absence of financial services for vulnerable and disadvantaged individuals (Duffie, 2015).

Despite SMEs playing an essential role, several issues plague them. According to Pius (2020), statistics, in the five months since a company was founded, only three out of five companies survived in a year, and 80% of the surviving companies went bankrupt within the first five years of operations (World bank, 2015). The failure rate is high. The majority of African SMEs confronted with several obstacles that limit their ability to achieve success and progress (Mihajlovic and Kume 2015). Adopting new technology gives SMEs a chance to enhance their results by lowering the number of times they fail. McEvily et al. (2014) argued that innovation is at the core of improving competitiveness, profitability and productivity, where many SMEs can reach their potential. Therefore, SMEs need to apply innovative methods and new financial systems when doing business in order to maintain sustainability.

Scholars have reviewed financial technology, at all levels. According to a study done by Sumra, *et al.* (2015), Pakistani banks' profitability is negatively impacted by financial technology. By using questionnaires, researchers have collected primary data. It revealed that e banking influences both competiveness and performance of banks in Pakistan. Financial technology services have a negative

influence on the profit margins of Jordanian banks, according to Siam (2016). Twenty Jordanian commercial banks participated in the research. Investing in financial technology service expenses and expenditures has a short-term negative impact on the profitability of banks, but training employees with existing technological and electronic infrastructure has a long-term beneficial effect. According to Tracey, Vonderembse and Lim (2010), financial technology in Brazil's banking industry has a significant impact on the country's competitive edge.

Chege (2017) looked at the competitive advantages and financial technologies of Nairobi Securities Exchange-listed Kenyan commercial banks. Commercial banks' product offers increased after implementing a financial technology strategy, according to the study's results. Wanyoike (2016) a logistical expert by profession studied Fintech and competitive advantage. It proved that logistical operation relied on Fintech services heavily and mobile money services was instrumental.

Matokho and Anyieni (2018) also undertook a study on financial technology affects the financial performance of Kenyan banks. Financial technology influence operating costs negatively and thus grows the market share. In Kenya, Musau (2012) carried out a case study of financial technology at Safaricom Ltd in Nairobi to determine the methods used and difficulties. The study used a case study technique to find the underlying cause of the issue. The study outlined the most important conditions for a progressive transformation package, and factors that could derail the transformation.

Kenya SME development is hindering the growth of SMEs, mainly because it is based onsocial, monetary system, economic and administrative technologies. However, this research focuses on the how Financial Technology is enabling growth of SMEs by providing credit and services digitally. This field of study, Nairobi County, is the busiest business districts in the country but there is minimal research about Financial Technology's impact on SME development. As a consequence, this serves as the foundation for future study. As a result, an investigation will be conducted to attempt to find a solution to the research question; what is the influence of financial technology usage on the growth of Nairobi County's Small and Medium Enterprises?

#### 1.3 Research Objective

To determine the effect of financial technology usage on growth of Small and Medium Enterprises in Nairobi County in Kenya.

#### 1.4. Value of Study

The study's main goal was to explore how financial technology affects the development of SMEs.

Research is legitimate since there are many initiatives to help small firms, but little is provided on how small businesses should employ Financial Technology to experience company success. It was clear that most of the small businesses that quickly adopted the technology in terms of providing services, remittances between different services, could continue to do business. Since most internet firms were unaffected while traditional businesses were entirely shut down, this was a tremendous benefit for them (GPFI 2020). This has also prompted the need for further investigation into how SMEs can use Financial Technology in their work to compete and match the emerging financial technologies and digital economy.

In this study, policy makers, especially Kenyan financial institutions and the central bank of Kenya, the regulator of services are of value. The Central Bank of Kenya is already concerned about the present financial technology growth and is working to control the industry. It can provide valuable insights due to the nature of Financial Technology's operations that can help develop the appropriate policies for Financial Technology's regulation (Pius, 2020).

Finally, this study is useful to scholars and researchers. First, this study provides added value to the existing knowledge system on Financial Technology strategy and financial service provision. Second, this research serves as a resource for both present and future academics and researchers. No gaps in the current body of knowledge were discovered, either.

#### **CHAPTER TWO**

#### LITERATURE REVIEW

#### 2.1 Introduction

The section of the study will concentrate on fintech and small and medium-sizedenterprises (SMEs). The chapter discusses the research gap in financial technology and growth of SMEs.

## 2.2 Theoretical Foundation

Two theories guided the study and include; financial intermediation theory and Schumpeter's theory of innovation.

## 2.2.1 Financial Intermediation Theory

The thesis is based on Mises' (1912) work and claims that financial institutions, particularly banks, play an important role in financial intermediation. They mobilize clients with extra cash and make it available for lending to others in need at a fee typically known as interest to those with a lack of it. As a result of this arrangement, banks are able to generate a condition of liquidity by taking money from customers with short-term period funds and lending it to customers with long-term maturity (Allen & Santomero, 1997). According to Mises (1912), the banks' position as credit negotiators is defined by lending borrowed funds. Banks faciliate financial intermediation by borrowing and lending money. Pyle (1971) asserts that banks' participation in financial intermediation limits them the opportunity to generate money, but their withdrawal from the process gives them the opportunity to do so.

A study by Scholtens and Van (2000) argues against the theory because it sees risk management as an emerging component in the monetary sector and applies the idea of contribution costs to the front lines. The theory is important to this investigation because sheds light on how financial systems

function. Loans are made available to borrowers by financial institutions and mobile lending applications. Financial technology has made it possible for people living in rural regions to get loans using different financial technology platforms, such as mobile lending applications and mobile banking, thanks to its launch. This is a key feature of the intermediation hypothesis, which is that low-income people may get mobile loans when they're in need.

## 2.2.2 Schumpeter's Theory of Innovation

In 1934 Joseph Schumpeter initially developed Schumpeter's theory of innovation, which said businesses had the ability to earn or expand their profit margins by incorporating innovation (Śledzik, 2013). In this respect, Schumpeter's innovation theory primarily emphasizes its profit possibilities as a reward for incorporating innovation into the operations of a company. Schumpeter sees innovation proverbially as a new method for companies and commercial entities to decrease their production costs, although increasing their demand for products and services (Ziemnowicz, 1942).

Innovation, according to Schumpeter (1934), is the progression of activity that includes structural changes, and he categorizes it into five kinds. The first is the use of rapid manufacturing or sales methods when innovation is not yet apparent. New functions may be added to an existing design as a second innovation. The third kind of innovation is the creation of a new market that previously did not exist in the sector. The fourth step is to find up-to-date raw material or partially finished material sources. The final kind is the contemporary industrial composition, which involves the demolition or development of a dominance position (Drejer, 2004). Any company that wants to make money must innovate not just in terms of product, process, and market, but also in terms of human resources.

Financial technology must be a big component in the growth and development of companies for this theory to be applicable today, thus it is a great time to study the business strategies of firms in this field (Hagedoorn, 1996). The theory is limited in the applicability in different organization settings. Just as the previous business cycle theory, this theory excludes other variables that cause company circumstances to fluctuate. Innovation is not the lone factor but just one of the elements that generate environmental variations (Drejer, 2004).

## 2.3 Determinants of Micro and Small Enterprises Growth

The constraints limiting credit access to small enterprises is access to fintech services limiting the access and deployment of credit services (Schmidt & Kropp, 2003). Poor lending guidelines and

sources of credit finance determine access to reliable and affordable credit services. The regulation and guidelines include laborious credit application procedures, and inadequate credit portfolio. Further, fintech type determine efficient credit access (Kropp & Schmidt, 2003). Moreover, terms of payment, credit security, duration and also impact access to credit facilities.

Credit demand and size of loan demanded also affect access to credit facilities (Swain, 2002). According to Swain (2002), location of the enterprises, interest rate, presence of collateral and household demographic features determine access to credit. Furthermore, size of the loan and credit worthiness of borrowers determine access to credit facilities. Also, inadequate financing pool determines access to financial services.

In Kenya, access to credit facilities is a constraint small business face. According to McCormick, (1992), size of loan required and availability of lenders affect access to credit facilities. The growth state of the firm growth determines the demand for credit facilities (Nkurunziza, 2005). Furthermore, Wilhborg and Isaakson (2002) focusing at manufacturing firms in Kenya established that access to credit service providers affect demand of access. The charge levies on credit also determine demand of credit facilities by enterprises and individuals.

Aside from financial technology services, it is argued that the growth of SMEs is affected by other factors. According to Shibia, et al (2017), accessing to credit facilities, educational and knowledge of influence growth of facilities. Focusing on determinants of growth of MSMEs growth in rural Ethiopia, educational attainment of operator, age, size of the household, income, experience, location, and infrastructure significantly impact credit access (Hagos, et al., 2014). The growth of SMEs implies significant addition to the economy and employment.

## **2.4 Empirical Literature Review**

Suriani and Kuncoro (2018) studied financial technology and firm competitive advantage. Using SEM equation, data collected using questionnaires was analyzed. Internet banking had positive effect on firm competitive advantage. Fintech influence access to credit facilities. Nonetheless, the research focused at rabbit meat enterprises and SMEs hence contextual gap.

According to Ngugi (2015), between 2006 and 2014, a descriptive study technique combined with secondary data examined mobile banking advances in Kenya for competitive advantage. He employed multiple regression to look at the link between competitive advantage and mobile banking innovations, and he found a positive correlation between the two, as well as a link between mobile

banking innovations and the expansion of financial services in Kenya. There is a contextual gap since the research by Ngugi (2015) was conducted on banks.

Koreen and Nemoto (2019) studied financial technology and credit access by small and medium enterprises. Critique of past studies was undertaken. Fintech facilitated access to credit services from varied digital sources. A contextual gap was established as the study looked at SMEs in Nairobi while this study focuses at SMEs Kenya. Furthermore, methodology gap is present as study was purely literature based review.

In Kenya, Abbott (2021) investigated financial technology and credit usage by SMEs employing descriptive research design and data was obtained from 100 sampled SMEs in Kisumu. From the study, it was deduced that over 49 fintech firms strongly determined the credit usage among SMEs. SMEs using Fintech have increased over time because the technology has enhanced efficiency in accessing credit facilities. Fintech operates as application which is installed in a cellphone or a computer. Nevertheless, Fintech such as Airtel and Mpesa require physical outlets which affect this service significantly. The study focused only mobile loans services while this study will address mobile money services and internet banking presenting a conceptual gap.

Ndung'u (2021) used illustrative descriptive design to look at Fintech SMEs growth in Kenya. Questionnaire was adapted to collect primary data. The findings suggested a positive significance on SMEs growth in Kenya. The study established that 16% of the SMEs growth was linked online banking, mobile money and digital lending. Increased usage of mobile money enhanced growth in SMEs, however, digital lending did not influence growth of SMEs.

Bosire and Ntale (2018) analyzed mobile money transfer services and SMEs growth of in Nairobi City County. It obtained data from 397 sample of SMEs from manufacturing and trade sector. The study findings established that mobile loans, payments and online banking affect growth of SMEs. Further, finding indicated that mobile loan and service influence growth of SMEs. Additionally, mobile payments have brought benefits relating to payment, also improved amount of sales transacted and total revenues and thus has improved performance. Nevertheless, a significant impact of M-banking on growth of SMEs and this is attributed to the fact that these business entities prefer depositing and saving their money in mobile money accounts such M-pesa and M-shwari.

In assessing digital fintech services SMEs growth in Kenya, according to Awinja and Fatoki (2021). The research was conducted and it targeted 300 SMEs sampled and it recorded a response rate of 60%. So as to determine impact of fintech on SMEs, regression was employed on the collected

data from the respondents. We came to a conclusion that mobile payments have becoming a favorite means of financial transactions. Consumers develop interest over any emerging technology relating to financial transaction and thus encourage its usage.

Using electronic banking services has improved Jordanian banks' profitability, according to Siam (2016). The research was conducted at 20 Jordanian commercial banks. 98 managers were questioned for this study, which covered the years 2013 to 2016. In order to assess the performance of banks, regression analysis was used to accounting data. We came to the conclusion that use of electronic sources has positive impact due to the expenditures and investments the bank must make to put up the appropriate technical and electronic infrastructure and educate their employees. Jordanians, in contrast to Kenyans, are traditionalists who are well-versed in modern technologies.

Using descriptive design, Wanyoike (2016) investigated the link between fintech and firm competitive advantage. Data was collected suing questionnaire. Mobile banking had brought competitive advantage. Shejero (2016) studied technology innovation and growth of SACCOs. Primary data was collected and was established that technology had impact on growth of SACCOs. Contextual gap exists as the studies focused on SACCOs while current studies focuses on SMEs.

Matokho and Anyieni (2018) also conducted a cross-sectional study to determine how Kenyan banks' financial performance is affected by financial technology. Fintech reduces operating expenses and also boost market reach. This study relates to recent studies on banks' competitive advantages provided by financial technology. Nonetheless, it failed to look at competitive advantage and financial technology provide.

Kimolo, Shirima and Mbowe (2020) studied fintech and growth of SMEs in Tanzania. Primary data was collected using interviews and questionnaires. Probit model was adapted. Fintech services enhanced access to short term credit facilities.

Studying the linkage between fintech and crista of SMEs in Nairobi County, Sabana (2014) fintech literacy support proper uses of credit facilities. Conceptual gap exists as it did not look at effect of fintech on growth of SMEs. The study opines to determine link of fintech and SMEs growth.

Atieno (2013) studied fintech and access to credit by MFIs. Fintech access was found to have positive impact on growth of MFIs. A contextual gap exists as the stud focuses at MFIs while this study looks at SMEs. This research focuses at impact of fintech on growth of SMEs in Nairobi.

Katwalo, Kobia, and Kiraka (2013) researched on fintech and growth of SMEs. SMEs operating in Kenyan counties were studied. Questionnaire was employed to collect data. Fintech affects growth

of enterprises. Conceptual gap exists as it failed to link fintech to growth of SMEs. This study links fintech to growth of SMEs.

In Kenya, Musau (2012) carried out a case study on the financial technology at SafaricomLtd in Nairobi to determine the methods used and difficulties. An in-depth and extensive inquiry was conducted using a case study technique in this research. Methodological and conceptual exists.

#### 2.5 Summary of the Literature

Local and global studies present gaps. Koreen and Nemoto (2019) studied financial technology and credit access by small and medium enterprises. Fintech facilitated access to credit services from varied digital sources. A contextual gap was established as the study looked at SMEs in Nairobi while this study focuses at SMEs Kenya. Furthermore, methodology gap is present as study was purely literature based review. According to a study done by Sumra, *et al.* (2015), Pakistani banks' profitability has been negatively impacted by financial technology. By using questionnaires, researchers have collected primary data. Electronic banking had impact on growth of Pakistani banks. Financial technology services have a negative influence on the profit margins of Jordanian banks, according to Siam (2016). According to Tracey, Vonderembse and Lim (2010), financial technology in Brazil's banking industry has a significant impact on the country's competitive edge. Financial technology contributes to frim competitive advantage. Chege (2017) looked at the competitive advantages and financial technologies of Nairobi Securities Exchange-listed Kenyan commercial banks. Commercial banks' product offers increased after implementing a financial technology strategy, according to the study's results.

Wanyoike (2016) investigated the link between fintech and firm competitive advantage. Mobile banking had brought competitive advantage. Contextual gap exists as the studies focused on SACCOs while current studies focuses on SMEs. Matokho and Anyieni (2018) also conducted a cross-sectional study to determine how Kenyan banks' financial performance is affected by financial technology. This study relates to recent studies on banks' competitive advantages provided by financial technology. Nonetheless, it failed to look at competitive advantage and financial technology provide. Musau (2012) investigated financial technology at Safaricom Ltd in Nairobi to determine the methods used and difficulties. The study used a case study technique to get to the bottom of the issue. The study outlined the most important conditions for a successful transformation program, as well as the challenges it encountered.

# 2.6 Conceptual Framework

From the empirical literature review, the linkage between financial technology usage and SME growth is positive. Figure 2.1 present the relationship of variables.

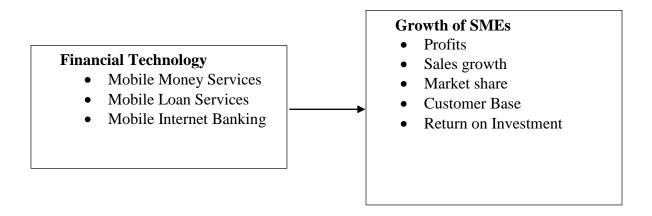


Figure 2.1 Conceptual Model

#### CHAPTER THREE

#### RESEARCH METHODOLOGY

#### 3.1 Introduction

The chapter outlines the technique applied in research. Its major emphasis is on the design of the study, next data analysis methodologies, and lastly the data collection and presentation strategies to be employed in this research.

#### 3.2 Research Design

The descriptive survey method adopted in this investigation. In order to completely appreciate a subject by constructing a profile of the issues, people, or events being researched, descriptive research requires data collection and tabulation (Cooper & Schindler, 2007). Descriptive design manifested through developing a snapshot of the market environment and finding out the variable of interest in a crucial time. This approach helps to assess what, who, when and wherein relation to a given relevant and the degree of inside variables.

Descriptive research design helps a researcher to answer to response to questions sought. Several designs of this nature exist and it assist one in collecting data, reason why research is carried out and area where the research is undertaken. (Nardi, 2018). The study adopted descriptive survey design. Descriptive design explains the casual relationship among variables and it also goes deeper to explicate reasons for the phenomena (Taguchi, 2018). Ordinarily causation is inferred. Descriptive design uses hypothesis and theories to pursue factors that caused a phenomenon (Bordens, 2014). These features made descriptive design more suitable for this study.

## 3.3 Population of Study

Population of the study was eight hundred and twenty-six (826) SMES registered according to existing laws and legislations and the list is attached in appendix VII.

**Table 3.1: Population** 

Category of SMEs	<b>Population Frequency</b>
Agriculture sector	146
Trade sector	238
Service sector	312
Manufacturing sector	73
Construction sector	57
Total	826

Source: MSEA 2021; E-citizen 2021

## **3.3.1 Sample and Sampling Procedures**

Schindler, et al. (2011) define sampling as the process by which a given number of subjects from a defined population are selected as representative of that population. Sampling is a deliberate choice of a number of people who provided data from which conclusions was drawn from larger groups that these people represent. The major criterion used when deciding on the sample size is the extent to which the sample size represents the population.

The stratified random sampling was used to obtain a sample of the SMEs who participated in the study. The strata were particularly the Agriculture sector, Trade sector, Service sector, manufacturing sector and Construction sector region in Kenya. The sample size was therefore a representative of the licensed SMEs who operated in Nairobi

City County. Yamane (1967) simplified formula was used to obtain the number of SMES in the five identified sectors. This is calculated as shown in the formula.

$$n = \frac{N}{1 + N(e)^2}$$

Where:

n =sample size

N =population size

e = the level of precision

1 = Constant

Where:

n = sample size

N = population size

e = the level of precision1 = Constant

This formula assumes a degree of variability (i.e. proportion) of 0.05, the level of precision of 5% and a confidence level of 95%.

Sample size for;  $n = 826/\{1 + 826(0.05) 2\}$ 

= 269.49= 269 SMEs

n = 269 SMEs

**Table 3.2 Sample Size** 

Category of SMEs	Population Frequency	Sample Size
Agriculture sector	146	48
Trade sector	238	78
Service sector	312	102
Manufacturing sector	73	24
Construction sector	57	19
Total	826	269

Source Author (2021)

#### 3.4 Data Collection

Data from primary sources was obtained in this study. A questionnaire that was structured was utilized to gather the majority of the needed data. Questionnaire's questions are in form of Likert scale and comprised of three parts; general information whiles the second part on financial technology and third part was information on growth of SMEs. The research used one questionnaire per firm. The researcher employed drop and pick questionnaire strategy in every SME firm where SME owners or SME operators were the respondents. The SME owners'/ SME operators in their establishments were the lead in answering the researcher's questions.

## 3.5 Data Analysis

After data collection, questionnaires were edited for consistency to be termed complete. The questionnaire was revised to be described as complete for uniformity. Data was cleaned up by editing, tabulating and coding to identify any abnormalities in the replies and to include particular numeric data in the answers for future examination.

The study employed various descriptive statistic to determine how data was distributed in terms of trend and dispersion. The simple linear regressions model below was used to determine the relationship between the variables:

$$Y = \beta_0 + \beta_1 X_1 + \epsilon$$

Where:

Y = is SMEs Growth in Kenya

 $\beta_1$  to  $\beta_3$  are the regression coefficients

 $\beta_0 = Constant term$ 

 $X_1$  = Financial Technology Usage Measured using; Mobile money services, Mobile loan services & Internet banking services

ε=Error term

#### **CHAPTER FOUR**

## DATA ANALYSIS, RESULTS AND DISCUSSION

#### 4.1 Introduction

The questionnaire response rate and demographic features of the population are presented in this chapter. Descriptive output including averages and standard deviations are presented. Correlation was undertaken to examine the nature of association among the variables of the study. Simple linear regression analysis was undertaken to investigate effect of financial technological usage on SME growth in Nairobi, Kenya.

## **4.2 Response Rate**

An aggregate of 269 questionnaires was distributed to respondents. An aggregate of 197 questionnaires were properly filled and resent back. Table 4.1 shows the response rate results.

**Table 4.1 Response Rate** 

Response	Frequency	Percent
Properly filled	197	73.2
Not properly filled	72	26.8
Total	269	100

An aggregate of 197 questionnaires were properly filled indicating a 73.2% percent return rate. Bailey (2000) established that return rate of more than 50 percent is adequate. Thus, a return of 73.2% showed in this study was excellent enough to draw satisfactory conclusions.

## 4.3 Background Information of the Organization

The number of employees, years of operation, nature of ownership, sources of capital, SME sector in Nairobi, Kenya was investigated.

## 4.3.1 Number of Employees

The number of employees working in the SMEs under the study was investigated. Employees are critical in advancing institution goal and its composition is vital in determining costs and productivity. Table 4.2 presents the results of employee composition within the SMEs.

**Table 4.2 Number of Employees** 

Number of employees	Valid Percent	<b>Cumulative Percent</b>
1-9	27.4	27.4
10-29	21.8	49.2
30-49	25.9	75.1
50-99	24.9	100
Total	100	

The finding from Table 4.2 showed that 27.4% of the SMES employed an average of 1-9 employees. The study also established that 25.9% of the SMES employed 30-49 workers. Likewise, it was revealed that 24.9% of the SMES employed 40-99 workers. Further, the study noted that 21.8% of the SMES employed 10-29 workers on average. The data indicates that employees working in SMEs are evenly distributed and overwhelming majority have less than 50 employees. This implies that majority of the SMEs employed an average of 1-50 people. According to World Bank report (2012) on employment, most of the SMES in developing countries employed up to 50 people while SMEs in the developed countries had 50-250 people fully employed. Mugo, et al., (2019) observed that most of the SMEs are characterized by low turnover and employment of few people. According to GoK (2018) SMES are classified as those businesses that employ 1- 49 people on average.

## 4.3.2 Years of Operation

Further, the study investigated the duration in which SMEs have been operational. The finding of years of existence of SMEs is presented in Table 4.3.

**Table 4.3 Duration of Operation** 

Years in operation	Valid Percent	<b>Cumulative Percent</b>
Up to 5 years	24.4	24.4
6-10 years	42.6	67
16-20 years	18.8	81.2
Over 20 years	14.2	100
Total	100	

From the finding in Table 4.3, it was revealed that 42.6% of the SMEs have been operational for a period of 6-10 years. The study deduced that 24.4% of the SMEs have been operational for less than 5 years. Additionally, the study noted that 18.8% of the SMEs have been actively in the sector for a period of 16-20 years. Likewise, the finding of the study depicted that 14.2% of the SMEs have been operational for over 20 years. A few SMEs have long life span stretching beyond 20 years and this could be attributed to the non-conducive business environment which might have threatened the sustainability of SMEs beyond a certain period of time. The time duration of an SME may also define its understanding of the operational business environment which may in turn impact the growth. The results agreed with Hagos, et al., (2014) who indicated that the duration a firm has been in operation affects its growth. However, Shibia, et al., (2017 also found out that SME age has no effect on its growth.

## 4.3.3 Nature of Ownership

The study investigated the nature of ownership of SMEs. Ownership structure is critical in management of business. The findings are presented in figure 4.3.

**Table 4.4 Ownership** 

Nature of ownership	Valid Percent	<b>Cumulative Percent</b>
Sole proprietorship	48.7	48.7
Partnership	31.5	80.2
Limited liability company	19.8	100
Total	100	

From the finding in Table 4.4, most of the SMEs 48.7% are owned by sole proprietors by the virtue of its registration. It was also revealed that 31.5% of SMEs are registered as partnerships. Likewise, it was established that 19.8% of SMEs are Limited Liability Companies by ownership. Starting a sole proprietor business is easy because the application and vetting process entail a simple procedure unlike limited liability Company which has a rigorous vetting and reasonable amount of money is paid for registration. There are other statutory obligations which limited liability companies must conform from time to time basis and thus most proprietors become discouraged as results of these restrictions that involve resources spending. Studies have showed that majority of SMEs are controlled by sole proprietors. Registered SMEs enjoy protection form country's companies Act, Cap 286. The finding concurs with Mugo, Kahuthia & Kinyua, (2019) who remarked that majority

of SMES in Kenya have sole proprietors as owners. Similarly, Pahnke, et al. (2022) established that majority of SMEs in Europe are registered as sole proprietorships.

## **4.3.4 Source of Capital**

Further, the study investigated the source of funding on SMEs. Funding is fundamental for business to undertake its operations and make profits. The finding on source of capital is presented in Table 4.5.

**Table 4.5 Source of Funding** 

Source of Funds	Valid Percent	Cumulative
Own funds	15.2	15.2
Banks	27.4	42.6
Fuliza	28.9	71.6
Mobile savings such as M-shwari	19.3	90.9
Others	9.1	100
	100	

From the finding in Table 4.5, Most 38% of the funding for SMEs originate from Mobile savings such as M-shwari, followed by Fuliza 28.9% and other mobile loans services. The study also established that 27.8% of SMEs funding come from bank in form loans, overdraft and savings. Further, it was noted that 15.2% of funding were money from their own source through personal savings or disposing personal property by selling. It implied that majority of the SMEs (56.9%) relied on mobile savings and mobile loans such has M-shwari, Fuliza among others to finance their businesses. Mobile loans and savings services have been preferred by most SMEs because they are easily accessible and affordable. Some of the SMES are unbanked and they could not access credit from these premium financial instructions and as result they resort to mobile loans and savings services which have few bureaucracies. Mobile loan services do not focus on adverse credit score which have few bureaucracies. Mobile loan services do not focus on adverse credit score which has been an impediment in accessing credit and thus makes it more impetuous to SMES to borrow. The finding concurred with Madan (2020) who argued that access to financing is essential to the growth of SMEs. It also concurred with Shibia, et al., (2017) who remarked access to formal credit, connections to utilities, lower incidences of crime, entrepreneur education and experience affect MSE growth.

#### 4.3.5 Sectors

The study investigated sectors in which SMEs are categorized. Sectors is important when it comes to performance and getting funding from financial institutions. The finding of the study is presented in figure 4.5.

**Table 4.6 Sectors** 

Sectors	Valid Percent	<b>Cumulative Percent</b>
Agricultural	17.8	17.8
Trade	30.5	48.2
Service	31	79.2
Manufacturing	9.6	88.8
Construction	11.2	100
	100	

The study established that 31% of SMEs are in service sector followed those in trade sector 30.5%. It was also noted that 17.8% of the SMEs are in the agricultural sector while 11.2% belong to the construction sector. It was revealed that few of the SMEs, 9.6% are engaged in manufacturing. It implies that most SMEs are only intermediaries to consumers and manufactures and few are manufactures. In most urban areas there is not enough land to practice agricultural activities and most manufacturing businesses require huge amount of capital which is inadequate among most SMES owners according to Adhitama, et al. (2018). Therefore, most SMES are left with trade and service sector which does not require huge capital for a start-up. The process of registration of business within trade and service sector may not be complex depending on the nature of the activity and thus this as attracted so many SMES to venture in. According to Mugo, Kahuthia and Kinyua, (2019) majority of SMES purchase and resale goods and services to the final user.

#### 4.4 Financial Usage among SMES.

Descriptive results for SMES and financial technology usage that constitute; mobile money services, mobile loan services and internet banking are tabulated in this section. The results comprise of mean and standard deviation of Fintech usage.

#### **4.4.1 Mobile Money Services**

The study finding on customers' usage of various financial products from different telecommunication services installed in their mobile phones as presented in Table 4.7.

**Table 4.7 Mobile Money Services** 

Mobile money services	Not at	Low	Moderate	high	Very high	Mean	Standard Deviation
	all	use	usage	usage	usage	Mean	Deviation
M-pesa services							
by Safaricom	6.1%	23.9%	5.6%	48.9%	35.5%	3.7	1.2
Airtel money							
services	7.6%	23.9%	0.0%	36.0%	32.5%	3.6	1.4
Pesapal	10.7%	23.9%	0.0%	37.1%	28.4%	3.4	1.5
Lipaspot	10.7%	26.4%	0.0%	29.9%	33.0%	3.1	1.6
Other mobile							
services	36.5%	25.9%	0.0%	27.9%	9.6%	2.8	1.4

M-Pesa mobile money service is the most preferred as indicated by the mean of 3.7 and standard deviation of 1.2. Airtel money is the second most preferred money services as depicted by the mean of 3.6 and a standard deviation of 1.4. This implies that M-pesa and Airtel mobile money services recorded high usage. This is attributed to the well-established infrastructure by the providers and thus wide network coverage which has made it easier for SMEs to rely on their services.

When the respondents were asked about the usage of Pesapal, most of the respondents agreed that this service is important as indicated by the mean of 3.4 and standard deviation of 1.5. It was further revealed that Lipaspot is the least preferred mobile money services as shown by mean of 3.1 and standard deviation of 1.6. This implied that Pesapal and Lipaspot mobile money service had moderate usage among customers and this could be linked to coverage and overall market strategy.

In developing economies, most SMEs are still unbanked and introduction of mobile money services has helped SMES to store and access money digitally. Most of the SMEs using mobile money services are able to make payment, send and receive money conveniently as compared to traditional methods such as visiting tertiary financial institution. Mobile money services has been efficient in

settling utility bills and payment of goods in merchant shops which is ideal for SMEs operating in trading sector. Other SMEs have also developed innovative ways of adopting mobile money services for instance paying salaries through mobile money services. The finding of the study concurred with Bosire and Ntale (2018) that concluded mobile service and loan service had a significant effect on the growth of SMEs. Likewise, mobile payments have brought convenience in receiving and sending payments, also improved amount of sales transacted and total revenues and thus has improved performance. It was also concurred by Awinja and Fatoki (2021) who remarked that that mobile payments have becoming a favorite means of financial transactions.

#### **4.4.2 Mobile Loans Services**

The study assessed various mobile loans offered in Kenya to establish the most preferred as tabulated in table 4.8.

**Table 4.8 Mobile Loans Services** 

					Very		
Mobile loan		low	Moderate	high	high		Standard
services	not at all	use	usage	usage	usage	Mean	Deviation
M-Shwari	16.8%	7.1%	20.8%	17.3%	38.1%	3.5	1.5
KCB M-Pesa	1.0%	2.0%	28.4%	36.0%	32.5%	4.0	1.0
Timiza loans	2.0%	3.0%	28.9%	33.5%	32.5%	3.8	1.0
M Co-op Cash							
Loan	1.5%	2.5%	37.1%	29.4%	29.4%	3.8	0.9
Eazzy Loan by							
Equity Bank	2.0%	3.0%	29.4%	37.1%	28.4%	3.9	0.9
Loop Loan from							
NCBA	4.6%	2.5%	29.9%	29.9%	33.0%	3.8	1.1
Housing Finance							
Whizz Mobile							
Loan	2.5%	3.6%	29.4%	27.9%	36.5%	3.6	1.2
Pesapap loan by							
family bank	19.3%	21.3%	23.9%	17.3%	18.3%	2.9	1.4
Vooma loan	24.4%	22.3%	19.3%	16.2%	17.8%	2.8	1.4
Others	29.8%	20.8%	21.8%	16.3%	11.3%	2.5	1.4

According to the descriptive finding of the study, KCB M-pesa is the most preferred mobile loan product as shown by the mean of 4.0 and standard deviation of 1.0. Eazzy Loan by Equity Bank is the second most preferred mobile loan service as shown by the mean of 3.9 and a standard deviation of 0.9. It signified that these mobile loan services recorded high usage among SMES.

Majority of the respondents preferred Timiza loans as depicted by the mean of 3.8 and standard deviation of 1.0. It was also revealed that several of the respondents highly prefer the adoption of M Co-op Cash Loan as indicated by the mean of 3.8 and a standard deviation of 0.9. The study established that most of the respondents prefer Loop Loan from NCBA as depicted by the mean of 3.8 and standard deviation of 1.1. Many of the respondents agreed that Housing Finance Whizz Mobile Loan is critical as shown by the mean of 3.6 and standard deviation of 1.2. The standard deviation of 1.2 On the other hand, majority of the respondents preferred the usage of M-shwari loans as deduced by the mean of 3.5 and a standard deviation of 1.5. The standard deviation signified that partly of the responses were not clustered around the mean. This imply that Timiza loans, M Co-op Cash Loan, Loop Loan from NCBA and M-shwari loans recorded high usage by SMES.

The study established that Pesapap loan by family bank had lower preference as depicted by the mean of 2.9 and a standard deviation of 1.4. It was also that revealed that Vooma loan is the least preferred as depicted by the mean of 2.8 and standard deviation of 1.4. This implies that Pesapap loan and Vooma loan had moderate usage among SMES. Access to credit is very critical to expansion of operations of any business. Financial institutions ordinarily put down measures that are supposed to act as guideline before approving any form of credit to businesses. According to Swain (2002) location of the enterprises, interest rate, presence of collateral and household demographic features determine access to credit. Furthermore, size of the loan and credit worthiness of borrowers determine access to credit facilities. Also, inadequate financing pool determines access to financial services. Wilhborg and Isaakson (2002) pointed out that access of credit by medium sized firms is easier as compared to counterparts in the informal sector. This finding concurred with Ndung'u (2021) who concluded that SMEs growth was attributed to mobile money, digital lending and online banking. The finding also agreed with Kiraka, Kobia, and Katwalo (2013) who concluded that access of credit through financial institutions enhanced growth of SMEs.

#### 4.4.3 Internet Banking

Internet banking has been emerging in the last few decades and majority of clients have shifted their preferences. The study assessed the level of usage of internet banking and the finding is tabulated in table 4.9.

**Table 4.9 Internet Banking** 

Internet	not at		Moderate	high	Very high		Standard
Banking	all	low use	usage	usage	usage	Mean	Deviation
	%	%	%	%	%		
Branch	14.7	7.6	19.3	23.4	35.0	3.7	1.4
Zenka	17.8	14.7	12.7	24.9	29.9	3.3	1.5
O-kash	13.2	8.6	21.3	25.9	31.0	3.5	1.4
Kashway	14.2	12.7	23.4	26.4	23.4	3.3	1.3
Pezesha							
services	11.7	8.1	23.9	31.5	24.9	3.5	1.3
Paysap	11.7	10.7	19.8	22.8	35.0	3.6	1.4
Pesatalk	19.3	20.3	23.4	21.3	15.7	2.9	1.4
Ipesa	17.3	15.	23.9	25.9	17.3	3.1	1.3
Okolea	15.7	22.3	19.8	18.8	23.4	3.1	1.4

From the finding Branch internet banking is the most preferred as shown by the mean of 3.7 and standard deviation of 1.4. Paysap internet banking was the second preferred internet banking as shown by the mean of 3.6 and a standard deviation of 1.4. It was followed by O-kash internet banking as indicated by mean of 3.5 and standard deviation of 1.4. This imply that Branch internet banking, O-kash internet banking and Paysap internet banking recorded high usage by SMEs. This is attributed to the nature of their products which have been viewed by many SMEs as convenient in terms access and usage.

Majority of the respondents agreed that the usage of Zenka, Kashway, Ipesa, Okolea and Pesatalk internet services are moderate. Services offered by banks have been designed to offer smooth business operations. Accessibility and affordability have been associated with the usage of internet banking which has been above average. The reliability of this service has been outstanding since it was initiated, the service is customized with security features which make it difficult for fraudsters and other form of theft occurrence. Growth in financial technology has left SMEs with no option but to embrace innovative business models such application of internet banking. Increased usage of smart phones has created a niche to banks on how to leverage technology on increasing their penetration of their products to SMEs. Application of technology in financial sector through internet banking has

increased efficiency in banking. Ngugi (2015) observed the link between mobile banking innovations and the expansion of financial services in Kenya. This finding concurred with Nemoto, and Koreen (2019) which concluded that financial technology accelerated access to credit among SMEs.

#### 4.5 SME Growth

SMEs are known for laying strategies that spur growth in profits, sales, customer base and market share. Although all firm strategies to achieve high level of growth but risk is inevitable in the plan. This risk is linked closely associated with growth and therefore this study sought to investigate the growth attained by SMEs despite the prevailing risks. Profits for SMEs and sales revenues are examined to establish its growth and the finding is presented in figure 4.1.

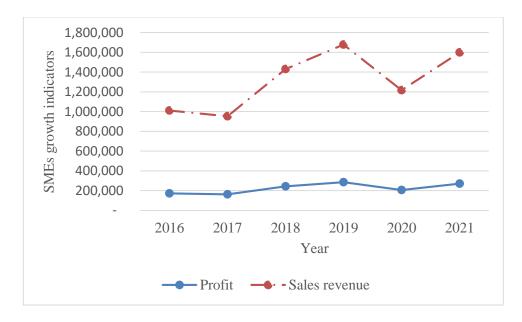


Figure 4.1: SME Growth 2016-2021

From the results in figure 4.1, SMEs earned highest profits in 2019 that was valued at Kes. 285,433 annually against a turnover of Kes. 1, 679,016. It was followed by profit margins of the year 2021 where SMEs earned Kes. 271,800 against a turnover of Kes. 1,598,824 annually. In 2018, SMEs earned Kes. 243,138 on average against a turnover Kes. 1,430,222. The annual profit for SMEs in 2016 was Kes. 171,833 against a turnover of Kes. 1,010,784. In 2017, SMES earned second lowest profits valued at kshs. 162,091 against an annual turnover of Kes. 953,475. SMEs recorded the lowest profits earnings in the year 2020 valued at Kes. 206,779 against an annual turnover of Kes. 1,216,345. Profits and turnover signified growth of SMEs. High profits and turnovers are associated with increased growth while a reduction in profits and turnover are linked to decline in growth. Decline in growth in the year 2020 and 2017 are linked to disruptions occasioned by the pandemic and

election speculation in the country which disrupted supply chains of most industries. The impressive growth recorded in 2018 and 2019 is associated with a stable macro-economic environment. According to Leseyio (2014) firm growth is an important and efficient indicator of how the small and micro enterprises are performing and whether they will be capable of survival. Similarly, Koech (2017) noted that growth is also an important precondition that indicates that the firm has achieved its business goals.

#### 4.6 Fintech and SME Growth

Fintech introduction was aimed at streamlining operation of business. The adoption of Fintech in developing countries has been on upward trajectory especially among SMEs. The study sought to establish the nature of association between Fintech usages that entailed; mobile money services, mobile loan services and internet banking and SME growth. The nature of association is presented in Table 4.10.

**Table 4.10 Fintech and SME growth** 

<b>Correlation Analy</b>	ysis					
		SME growth	Mobile mo	oney	Mobile loan	Internet banking
SMES growth	Pearson Correlation	1	.522**		.495**	.503**
	Sig. (2-tailed)			0.000	0.000	0.000
	N	197		197	197	197
Mobile money services	Pearson Correlation	.522**		1	.761**	.429**
	Sig. (2-tailed)	0.000			0.000	0.000
	N	197		197	197	197
Mobile loan	Pearson Correlation	.503**	.761**		1	.440**
	Sig. (2-tailed)	0.000		0.000		0.000
	N	197		197	197	197
Internet banking	Pearson Correlation	.495**	.429**		.440**	1
	Sig. (2-tailed)	0.000		0.000	0.000	
	N	197		197	197	197
** Correlation is s	ignificant at the 0.	.01 level (2-ta	ailed).		-	

The correlation finding showed that mobile money services and SME growth have a positive and significant association (r=0.522, p=0.00<0.05). This finding implied that the nature of association between mobile money service and SME growth is strong. The usage of mobile money services has

been high and Safaricom M-pesa and Airtel mobile money services are the most preferred. Simplification of mobile money services has made this services more convenient and acceptable by many users. The service is accurate, timely and consumer sensitive thus many considers it efficient and effective. The finding agreed with Ndung'u (2021) who established that 16% of the SME growth was attributed to mobile money, digital lending and online banking. Increased usage of mobile money enhanced growth in SMEs, however, digital lending did not influence growth of SMEs. It also concurred with Bosire and Ntale (2018) that concluded that there was a strong correlation between mobile SMEs growth and mobile payments, mobile loans and mobile banking.

The finding also found out that Mobile loan and SME growth have positive and significant association (r=0.503, p=0.00<0.05). Mobile loans as also given life to those businesses that were not eligible to loans because of adverse credit scores hence promoting financial inclusion. Access to credit is vital for business growth. SMES can obtain credit easily for those in formal sectors unlike their counterparts in the informal sector due to bureaucracies that have become major impediment. The finding implies that the association between mobile loan service and SME growth is moderate. This finding concurred with Awinja and Fatoki (2021) that established that mobile payments have becoming a favorite means of financial transactions. It was also in agreement with Atieno (2013) who concluded that there is a positive correlation between growth of SMEs and financial technology.

The outcome also showed that SME growth and internet banking have positive and significant association (r=0.495, p=0.00<0.05). Growth in financial technology has left SMEs with no option but to embrace innovative business models such application of internet banking. Increased usage of smart phones has created a niche to banks on how to leverage technology in increasing their penetration of their products to SMEs. This signified that the association between internet banking and SME growth is strong. This finding agreed with Kuncoro and Suriani (2018) who concluded that internet banking positively significantly affected firms' growth. The finding differed slightly with Siam (2016) who argued that electronic banking services have a short-term negative impact on bank profitability.

### 4.7 Regression between Financial Technology Usage and SME Growth

Model fitness results, the analysis of variance and the regression coefficient are presented in Table 4.11.

**Table 4.11 Regression Analysis** 

**Table 4.11 Regression Analysis** 

					Mo	del Sumn	narv						
Model	R		R Squa	are		d R Squa		Std. Error of the Estimate					
1	.63	39a	0.4	108	· ·	-	0.399	9 0.42826					
a Predicto	a Predictors: (Constant), internet banking, mobile money services, mobile loan												
						ANOVA							
				ım o									
Model				quar		df	Mean	Sq	uare	F		Sig.	
		Regressi			24.402	3			8.134		44.351	.000t	)
		Residua	l		35.397	193			0.183				
		Total			59.799	196							
a Depend	ent	Variable	: SMES	grov	wth								
b Predicto	ors:	(Constai	nt), inter	net b	anking, n	nobile mo	ney ser	vice	es, mobile lo	an			
					(	Coefficien	ıt						
Model					I <mark>nstand</mark> ai Coefficien				andardized efficients		t	Sig.	
				В	3	Std. Er	ror	Be	ta				
	1	(Consta	ant)		1.029		0.245				4.194	0.0	000
		Mobile	money										
		service	-		0.303		0.06		0.3	11	5.031	0.0	000
		Mobile											
Financial		service			0.249		0.073		0.2	87	3.4	0.0	001
technolog	у	Interne			0.100		0.005		0.1	70	2.00	0.0	27
use		bankin			0.198		0.095		0.1	/9	2.096	0.0	)37
a Depend	ent	Variable	:: SME <u>g</u>	row	th								

Table 4.11, presents financial technology usage comprising mobile money services, mobile money loans and internet banking aspects are satisfactory variable that explain growth of SMEs. This fact was affirmed by the R square of .408. The results imply that mobile money services, mobile loan services and internet banking aspects explain 40.8% of growth of SMEs. Organizations are now compelled to use financial technology in order to improve their efficacy and efficiency. Telecommunication has revolutionized financial technology and SMEs are cutting niche out of this by adopting mobile money services, mobile loan services and internet banking services to foster payments and withdrawals. Haggin (2021) noted that SMEs find it easier to use mobile money

transaction as compared to bank transaction. According to Mbogo (2010) SMEs have adopted mobile payments as way of settling their business transactions and M-banking in transacting their financial services.

Table 4.11 also presented the ANOVA results. The ANOVA output suggests that financial technology usage is a satisfactory indicator of SME growth. This was shown by an F value of 44.351 and a p-value of 0.000. This is acceptable because the p< 0.05. Financial management and transactions of SMEs is important to its growth. Incorporating technology into financial transactions and financial management of SMEs enhances efficiency and its competitiveness in the market. In spite of financial systems adopting technology into their practices, there has been stiff competition and also business rivals are employing financial technology to outdo their competitors. According to Śledzik (2013) and Silber (2017) new competitors can use solid information to block traditional associations between banks and clients based on the knowledge obtained from the bank- client contact. However, many new competitors avoid seeking bank licenses to avoid compliance costs and steal profitable business activities from banks.

Based on the predictive model, mobile money services positively and significantly influence SME growth. This regression coefficient implies that a unit change in mobile money services results to an increased growth by SMEs. Mobile money services have lessened and simplified how business make their payments through money transfer processes. Telecommunication providers have provided innovative solutions through mobile money services which are more convenient in financial transaction. Services such as settling payments and depositing money have been taken care of by mobile money services in a simplified form debunking the myth of complexity associated with handling money in banks for those business owners who still faces literacy challenge. According Mbogo (2010) SMEs have adopted mobile payments as way of settling their business transactions and M-banking in transacting their financial services. The 'Lipa na M-pesa' product has provided SMEs with an opportunity to transact payments efficiently.

Mobile money services an aspect of financial technology usage has positive and significant relationship with SME growth ( $\beta$ =.303, p-value=0.000). The results imply that a unit change in mobile money services an aspect of financial technology usage results to an increased growth among SMES by .303 units. It was also established that mobile loan services an aspect of financial technology usage has positive and significant effect on SME growth ( $\beta$ =.249, p-value=0.001). The results imply that one unit change in mobile loan services an aspect of financial technology usage results to an increased growth of SMEs by .249 units. Likewise, the study established that internet

banking as an aspect of financial technology usage has positive and significant effect on SME growth ( $\beta$ =.198, p-value=0.037) implying that that one unit change in that internet banking as an aspect of financial technology usage results to an increased growth of SMEs by .198 units.

#### 4.8 Discussion of Results

The study established that employees working in SMEs are evenly distributed and overwhelming majority have less than 50 employees. Only 14.2% of the SMEs have a lifespan beyond 20 years. This attributed to ever changing business environment that threaten the sustainability of SMEs growth. Most of the SMEs (48.7%) are owned by sole proprietors. Starting a sole proprietor business is easy because the application and vetting process entail a simple procedure unlike limited liability Company which has a rigorous vetting and reasonable amount of money is paid for registration. Most of the SMEs get funding from mobile money savings and Fuliza credit facilities. Digital lenders have bridged the gap in offering the needed credit facilities to SMEs who are unable to access credit from tertiary financial institutions because they had adverse credit score or lacked collateral to guarantee this service. Majority of the SMEs are classified in service and trading sectors. In most urban areas there is no enough land to practice agricultural activities and most manufacturing businesses require huge amount of capital which most SME owners' lack. Therefore, most SMEs are left with trade and service sector which have the potential to sustain their desires of success in creating capital.

Model summary results showed mobile money services an aspect of financial technology usage, mobile loan services an aspect of financial technology usage and internet banking an aspect of financial technology usage explain 40.8% of growth of SMEs in Nairobi, Kenya. Policies guiding financial technology is vital for the growth of SMEs. Weak policy framework has been identified as the main challenge that hinders SMEs from leveraging on Fintech to increase efficiency in accessing financial services such as making payments and obtaining credit. Kropp and Schmidt (2003) pointed out that poor lending guidelines and sources of credit finance determine access to reliable and affordable credit services. The regulation and guidelines include laborious credit application procedures, and inadequate credit portfolio. Further, fintech type determine efficient credit accessThis concurred with Abbott (2021) who noted that SMEs using Fintech have increased over time because the technology has enhanced efficiency in accessing credit facilities.

The descriptive finding indicated that most of the mobile money services recorded high usage across most SMEs with Safaricom M-Pesa and Airtel mobile money services ranked the most preferred. The correlation finding showed that mobile money services and SME growth have a positive and significant association (r=0.522, p=0.00<0.05). The study also found out that mobile money services

as an aspect of financial technology usage has a positive and significant relationship with SME growth (β=.303, p-value=0.000). The results imply that a unit change in mobile money services an aspect of financial technology usage results to an increased growth among SMEs by .303 units. Mobile money services entails making payment, withdrawals, save and depositing money using a supported mobile app in your phone. Adoption of mobile money services has made financial transactions easier as compared to traditional financial institutions such as banks due to the simplification of the process and lesser documentation that are required for the process to be effected. For instance, products such the 'Lipa na M-pesa' product has provided SMEs with an opportunity to transact payments. The finding of the study concurred with Bosire and Ntale (2018) that concluded mobile service and loan service had a significant effect on the growth of SMEs. Likewise, mobile payments have brought convenience in receiving and sending payments, also improved amount of sales transacted and total revenues and thus has improved performance. It was also concurred by Awinja and Fatoki (2021) who remarked that that mobile payments have becoming a favorite means of financial transactions.

The descriptive results showed that most of the mobile loan services have high usage and KCB M-Pesa and Eazzy Loan by Equity Bank are the most preferred by SMEs. Results further indicated mobile loan and SMES growth have positive and significant association (r=0.495, p=0.00<0.05). The regression finding indicated that mobile loan services an aspect of financial technology usage has positive and significant effect on SMES growth ( $\beta$ =.249, p-value=0.001). The results imply that one unit change in mobile loan services as an aspect of financial technology usage results to an increased growth of SMES in Nairobi, Kenya by .249 units. Access to credit is very critical to expansion of operations of any business. Financial institutions ordinarily put down measures that are supposed to act as guideline before approving any form of credit to businesses. According to Swain (2002) household with positive credit score face less difficulty in accessing credit unlike those with poor credit score who are rationed when it comes to accessing credit. Several securities are demanded by financial institutions to guarantee the loan in case of default. Wilhborg and Isaakson (2002) pointed out that medium sized firms can easily access trade credit, with the proportion of informal sector firms to credit access being lower than those in the formal sector. This finding concurred with Ndung'u (2021) who concluded that SME growth was attributed to mobile money, digital lending and online banking. The finding also agreed with Kiraka, Kobia, and Katwalo (2013) who concluded that access of credit through financial institutions enhanced growth of SMEs.

Descriptive results revealed that internet banking services are both experiencing moderate and high

usage across most of the SMEs. The correlation outcome also showed that SME growth and internet banking have positive and significant association (r=0.503, p=0.00<0.05). Internet banking as an aspect of financial technology usage has a positive and significant effect on SME growth ( $\beta$ =.198, p-value=0.037). This implies that that one unit change of internet banking an aspect of financial technology usage results to an increased growth of SMEs by .198 units. Growth in financial technology has left SMEs with no option but to embrace innovative business models such application of internet banking. Increased usage of smart phones has created a niche to banks on how to leverage technology on increasing their penetration of their products to SMEs. Application of technology in financial sector through internet banking has increased efficiency in banking. Ngugi (2015) observed the link between mobile banking innovations and the expansion of financial services in Kenya. This finding concurred with Nemoto, and Koreen (2019) which concluded that financial technology can lead to higher financial access for SMEs.

#### **CHAPTER FIVE**

#### SUMMARY, CONCLUSION AND RECOMMENDATIONS

#### 5.1 Introduction

The chapter outlines the summary of findings, conclusion and recommendations. The chapter ends with study topic for future research and limitation encountered in this study.

## 5.2 Summary of the Finding

The study established that employees working in SMEs are evenly distributed across different age groups. SME sector employs less than 50 workers. The life span for majority of SMEs is 5-10 years. Most of the SMEs ownership structure is sole proprietorship. In terms of funding, most of the SMEs derive funding from mobile loan services and other credit facilities such as Fuliza. Majority of the SMES are classified under trade and service sectors.

The descriptive finding indicated that most of the mobile money services recorded high usage across most SMEs with Safaricom M-Pesa and Airtel mobile money services ranked as the most preferred. Mobile money services usage influence SME growth. KCB M-Pesa and Eazzy Loan by Equity Bank are the most preferred mobile loan services by SMEs. Internet banking services are moderately used across most of the SMEs and positively correlated with SME growth. Internet banking, mobile money services and mobile loan services explain about forty-one percent of SME growth.

#### 5.3 Conclusion

The study concludes that mobile money services an aspect of financial technology usage has positive and significant relationship with SME growth. The usage of mobile money services has been high and Safaricom M-pesa and Airtel mobile money services are the most preferred. It can also be concluded that mobile loan services usage contributes to SME growth. Finally, it can be concluded that there exist a positive and significant relationship between internet banking usage and SME growth.

#### 5.4 Recommendations from the Study on Financial Technology Usage and SMEs Growth

## **5.4.1 Recommendation for Practice**

The study established that mobile money services mostly influenced the growth of SMEs. The study recommends that service providers develop more innovative products that captures the aspirations

of clients. The area remains not fully explored and service providers are encouraged to explore more solutions for instance recently Safaricom introduced Pochi la Biashara to compliment Lipa na Mpesa services. Service providers should offer more innovative solutions that are customer friendly in terms of operation.

Credit is a stimulus to growth of most businesses because it fosters the culture of hard work. The study therefore, recommend increase of access to mobile credit loans services through reduced restrictions that have been impediments in accessing these fundamental products. Most of the structures within SMEs are still informal and formalization of the process of acquiring loans may discourage most of them. Mobile money services providers should make an attempt of having friendly approach and relating with players in the sector so as to increase its credit portfolio.

Internet banking is very important in saving time of queuing in bank halls in order to be served. However, internet infrastructure has been a challenge in most emerging economies especially now that this service is supported by telecommunication network which still remain unfinished in most areas. Therefore, it is recommended that banks and telecommunication providers should develop a product that can access internet even in those areas that have poor network connection. This will help in ensuring that everyone can utilize internet banking in all areas as long as one has access to any form of telecommunication network.

#### **5.4.2 Recommendation for Policy**

Fraud and Cyber bulling has been rampant in the most recent years. The government and all sector stakeholders should formulate a policy that can reduce cyber bulling and reverse the rampant cases of fraud through conning schemes. The legislative and policy covering the usage of financial technology should be reviewed to address the ever changing and challenging cycle of events that are related to cyber bulling and fraud.

#### **5.4.3 Suggestions for Further Research**

Internet banking, mobile money services and mobile loan services are not the only factors that contribute to SME growth. Management competency and legal framework plays a critical role in the relationship between financial technology usage and SME growth which future studies should try to incorporate either as a moderator or control variable. Internet banking has not been embraced fully by the SMEs despite the simplicity in application and a direct link with bank account. Future researchers should investigate why the penetration of internet banking is moderate when other aspect

of financial technology usage such as mobile money services and mobile loan services have been fully embraced.

## 5.5 Limitation of the Study

Financial record keeping in business is important in audit and management processes. Most of the SMEs face challenges when it comes to record keeping of various process such as stock take and sales. Some of the SMEs had no clear records on profits and sales revenues which made it difficult to have accurate information that will have helped the study to make a conclusive finding. Mobile money services, mobile loan services and internet banking may not be the only factors that explain the growth of SMEs, other factors such as management competency and legal framework play a critical role in the relationship between financial technology usage and growth of SMEs.

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**APPENDICES** 

**Appendix I: Introduction Letter** 

November 2022

Masters Student- MSC

University of Nairobi

**RE: REOUEST FOR RESEARCH DATA** 

I am a student at the University of Nairobi where I am undertaking a degree in Masters of Science in Entrepreneurship & Innovations Management. For my course work evaluation, I'm expected to write a research paper on the topic of "EFFECT OF FINANCIAL TECHNOLOGY USAGE ON GROWTH OF SMALL AND MEDIUM ENTERPRISES IN NAIROBI COUNTY, KENYA". To do so, your company is chosen to produce the necessary data for this research. This information is used only for academic purposes and is not included in the report by your name. The findings of the research will be made available to you upon request.

Your participation and help would be greatly appreciated.

Thank you in advance.

Doreen Kanana

Masters Student – Researcher University of Nairobi

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# **Appendix II: Questionnaire**

Data gathered in the survey are solely for academic reasons and will be used in part to carry out a Masters Research project in order to evaluate the "Effect of Financial Technology Usage on Growth of Small and Medium Enterprises in Nairobi County, Kenya". The data collected will be treated with the utmost discretion. There are six parts to.

## **Section One: Organizational Characteristics**

	1.	Name of the firm (Optimal)
	2.	Indicate the number of employees in your organization
	3. 1	-20 [ ] 20-30 [ ] 30-40 [ ] 40-50 [ ]
	4.	How many years has your business been in operation in Kenya?
	Up	to 5 years [] 6-10 years [] 11-15 years [] 16-20 years [] Over 20 years []
	5.	What is the type ownership structure of your business?
	i	Sole proprietorship [ ] Partnership [ ] Limited liability company [ ]
	6.	What is the source of working capital?
mo		Own Funds [ ] Banks [ ] Mobile money Credit (e.g. Fuliza, Tala) [ ] money savings (e.g. M-shwari) savings [ ]other

SECTION B: FINANCIAL TECHNOLOGY	
Construction sector [ ]	
Agriculture sector [ ] Trade Sector [ ] Service sector [ ] Manufacturing sector [	]
8. Indicate sector in which your business is in?	
Man [ ] woman [ ] youth [ ] person with disability [ ]	
/. Who owns the business?	

To what extent do you agree with the following attributes on Financial Technology exhibited by your firm. Using a scale of 1-5, indicate the level of usage of the following money mobile services in your day to day business operations. Use the scale 1=not at all,2=low use, 3=Moderate usage 4=high usage,5=Very high usage.

Mobile Money Services	1	2	3	4	5
Mpesa services by Safaricom					
Airtel money services					
Pesalink					
Lipaspot					
Other mobile services					
Mobile loan services	1	2	3	4	5
MShwari					

KCB M-Pesa					
Timiza loans					
MCo-op Cash Loan					
Eazzy Loan by Equity Bank					
Loop Loan from NCBA					
Housing Finance Whizz Mobile Loan					
Pesapap loan by family bank					
Vooma loan by KCB					
Other mobile loan services					
Internet banking services/app supported services	1	2	3	4	5
Branch					
Zenka					
Zenka O-kash					
O-kash					
O-kash Kashway					
O-kash  Kashway  Pezesha services					
O-kash  Kashway  Pezesha services  Paysap					
O-kash  Kashway  Pezesha services  Paysap  Pesatalk					

## **SECTION D. GROWTH OF SMEs**

In which areas has financial technology services contributed to your business growth?

Indicators	Less 5%	5-10%	10-15%	15-20%	Above 20%
	1	2	3	4	5
Profit					
Sales					
Market share					
Increase in customer					
Database					
Return on Investment					

Indicate the growth of profits, sale revenue, market share and customer size from 2016-2021

Indicators	2016	2017	2018	2019	2020	2021
Profit						
Sales						

Thank you for taking your time to fill this questionnaire

# **Appendix III: Proposal Correction Form**



# UNIVERSITY OF NAOROBI SCHOOL OF BUSINESS

# PROPOSAL CORRECTION FORM

Registration N	mber	9031/2013			
Department	BUSINESS ADMINI	STRATION		11.20	_
Specialization	MUG. ENTREPREN	VEURITHP & INNO	DVATIONS N	THAGEMEN.	<u>r</u>
Title of Projec	Proposal EFFECT	OF THANCIAL -	TECHNOLOG-1	USAGE O	K
GROWTH	OF UMALL AND . N	MEDIUM ENTERPA	LISES IN N	MROBI	
COUNTY	KEN-14 .				
The student ha	done all the corrections a collect data.	as suggested during the	Proposal Prese	ntation and can	
			0	01	
Name of Supe	visor men	Signature A	forte 1	Date 8/11	1202
Name of Supe	visor fryf man	Signature A	fonle 1	Date 8 \ 11	1202
Name of Supe	visor fryf man	Signature A	fonle_1	Date <u>8\11</u>	<u> </u>
Name of Supe	visorfryf man Len	Signature A	forde i	Date 8 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	[202
Name of Supe	visor frof man Ren	Signature A	forte i	Date <u>8 \ \ \ \                            </u>	<u> (</u> 202
Name of Supe	visor man Len	Signature A	forde 1	Date 8\11	(202)
Name of Supe	visor frof man	Signature A	forde 1	Date 8\11	<u>(</u>  202
Name of Supe	visor frof man Ren	Signature A	forte 1	Date 8\11	[202
Name of Supe	visor man Ren	Signature A	forde 1	Date 8\11	(202)
Name of Supe	visor frof man	Signature A	forde 1	Date 8\11	[202

# **Appendix IV: Supervisor Allocation Form**



# UNIVERSITY OF NAIROBI \$CHOOL OF BUSINESS MSC PROGRAMMES PROPOSAL/PROJECT SUPERVISION ALLOCATION FORM

Name of student DOREEN KANANA	Reg. No.: D66 69031 2013
Mobile phone: 0711-222145	Email: doveenkanana @gmail. com
Department: BWINES ADMINISTRATION	
MSc. Programme: ENTREPRENEURSHIP & INNOVATIO	NJ MANAGEMENT
Proposed Title of Study:	
THE GROWTH OF FINTECH SECTOR IN KENTA	ND ITS CONTRIBUTION TO MICRO
UMAL AND MEDIUM ENTERPRIVEY.	
Name of Preferred Supervisor(s): (i) D.R. EDHARD ODUNDO (i	BOT MARY KINDTI NO. MUINDI ADDER
Name of Preferred Supervisor(s): (1)	
Signature of student	Date: 03/06/2021
SECTION B: (For Official Use only. To be completed I	by the Department)
) Name of Supervisor Allocated:	
iupervisor: Prof Mr Krush	Mobile No.: 0729731175
Co-Supervisor (If any):	Mobile No.:
Moderator: W. F. Muld	Mobile No.:
i) Proposal Presentation/Submission Dates	
Proposal Presentation:Oral Defence:	Project Report Submission Date:
Approved by Supervision Allocation Officers	
Name Signature:	Date:
Approved by Chairman of Department:	
Name Dr. F. Mund Signature:	Date: 14 6/202
NOTE	· ·
<ul> <li>A student shall not commence proposal writing before allocal</li> </ul>	
<ol><li>Original Transcript, Fees Statement and Synopsis should be Department, SOB website or MSc. office. Students get their done.</li></ol>	
<ol> <li>The approved copy of this form must be attached to the propo and when submitting the final project.</li> </ol>	osal when submitting for moderation and presentation
4. Original to be filed in the Department.	
<ol><li>Turnitin report MUST be attached to the proposal when submit the final project.</li></ol>	ting for moderation, presentation and when submitting

# **Appendix V: Certificate of Correction Form**

UON/OP/65/REC7



#### UNIVERSITY OF NAIROBI FACULTY OF BUSINESS AND MANAGEMENT SCIENCES MBA/MSC PROGRAM – LOWER KABETE CAMPUS

Telephone: 4184160/5Ext 313; 020-2059162; 0711-642416 Telegrams: "Varsity" Nairobi Telex: 22095 Varsity

Date .....

P.O. Box 30197 - 00100 Nairobi, KENYA

MBA/MSc RESEARCH PROJECT CERTIFICATE OF CORRECTION

Name of CandidateDOREEN KANANA
Registration NumberD66/69031/2013
Title of Research Project EFFECT OF FINANCIAL TECHNOLOGY USAGE ON GROWTH OF SMALL AND MEDIUM ENTERPRISES IN NAIROBI COUNTY, KENYA
The above named candidate has completed the corrections required in his/her researce and produced seven copies as required.
He/she has my permission as the supervisor, to submit to the Dean' Office the signed PD version of their projects alongside other mandatory documents to enable him/her join the ist of graduands in this year's graduation ceremony.
Supervisor's Name
Signature
Date
MBA/MSc. CO-ORDINATOR
Signature

# Appendix VI: Plagiarism Report

# Appendix VII: List of Licensed SMEs in Nairobi City County

No	SMEs						
1	A And J Investments Co. Limited	21 0	Aberdares Consulting And Research Limited	419	Quantum Cleaning Services Limited	628	Allpack Industries Limited
2	Aafreenda Investment Company Limited	211	Aberdare Medical Centre Limited	420	Mulembe Cleaning Services Company	629	Burn Manufacturing
3	Abasumeyah Agencies Limited	21 2	First - Truck Limited	421	Mr. Clean Cleaning Services Limited	630	Samsung Electronics East Africa Limited
4	Abbigoh Enterprises Limited	21	First -Class Limited	422	Mamas Cleaning And General	631	True Blaq Limited
5	Abby Engineering Works Limited	21 4	Thirty First Century Trading Limited	423	Unispan Cleaning Services Limited	632	Quipbank Trust Limited
6	Abiel Supplies Limited	21 5	First Kleaning ServicesLimited	424	Aqina Cleaning Services Limited	633	Rural Distributors Enterprises Limited
7	Acacia Emporium Limited	21 6	First Energy Limited	425	Ideal Cleaning Solutions Limited	634	Orange Pharma Limited
8	Academia Enterprise Solutions Limited	21 7	First Healthcare Services (Kenya)	426	Tripple Dimensions Cleaning Limited	635	Professional Digital Systems Ltd
9	Accacia Green Ventures Limited	21 8	First Commodity HouseLimited	427	Eagle Claw Cleaning Services Limited	636	Asa Limited
10	Access Supply Solutions Limited	21 9	First Gulf IndustriesLimited	428	Bestways Cleaning Services Limited	637	Kurrent Technologies Ltd (Ktl)
11	Adha Prime Contractors And Suppliers Company	22	First It Services Limited	429	Sogei Cleaning Services	638	Dakawou Transport Limited Dtl

12	Adhoc Holdings Company Limited	22	First Leasing And Services Company	430	Pelican Cleaning Services Limited	639	Spic And Span Cleaning Services Ltd
13	Adino Kenya Construction Co. Limited	22	First Riverside AcresLimited	431	Safeguard Cleaning Services Limited	640	Questworks Limited Questworks Ltd
14	Adriana Pro Films	22 3	First Truck And PartsLimited	432	Nuru Cleaning Services Limited	641	Sheffield Steel Systems Ltd
15	Adsolute Hi-Tech Limited	22 4	First Artists VenturesLimited	433	Rhinestone Cleaning And Errand Services	642	Bella Safaris Ltd
16	Adtec Ventures Limited	22 5	Twenty First Century Technologies Limited	434	Wheellys Auto Care And Cleaning	643	Isolutions Associates Ltd
17	Adul Limited	22 6	First American Insurance Brokers	435	Clean Air Cool K. ( Planet ) Limited	644	Myspace Properties Limited
18	Advanced Medical Solutions Ltd	22 7	First Consultants Limited	436	Nairobi Metropoliz Cleaning Services	645	Victoria Courts Trading Limited
19	Advanced Sharp Solutions And	22 8	First Line SecurityLimited	437	Norali Cleaning Services Limited	646	Eco Steel Africa Ltd
20	Advatech Supplies Limited	22 9	First Solar Eco Solutions Limited	438	Grey Stick Cleaning Services Limited	647	General Cargo Services Ltd
21	Affirm Innovation Enterprises	23	First Logistics Limited	439	Quincy Cleaning Services Limited	648	Imexolutions Limited
22	Afmas Construction And Supplies Limited	23	First Source Agribusiness (K)	440	Puan Cleaning Services Limited	649	North Star Cooling Systems Ltd

	Africa Bliss Travel Limited	23	Tawakal First Fix Construction Company		The Glitters Cleaning Service		Tropical Brands (Afrika) Limited
23		2		441		650	
	Africa Instore Solutions Limited	23	Student First Education Consultants Limited		Lihorte General Cleaning Services		
24		3		442		651	Maridady Motors Ltd
	Africa Sawyers Limited	23	First Avenue Insurance Agency Limited		Top Image Cleaning Services Limited		
25		7		443		652	Lachlan Kenya Ltd
	Africalive Limited	23	First Insurance Brokers Limited		Rhino Cleaning Services Limited		
26		J		444		653	Promokings Limited
	Africode [K] Limited	23	First Aviation Group Limited		Integer Cleaning Services Limited		Audiovisual Control Systems Ltd
27		U		445		654	
	Africom Halal Food Supplies Limited	23 7			Subway Cleaning And Landscaping		Atlancis Technologies Ltd
28		,	First Realtors Limited	446		655	
	Afrikanet Enterprises Limited	23	First Ideas Capital Limited		Broom International Cleaning Services		
29		o		447		656	Mc Builder Limited
	Afrikyte Enterprises	23	First Community Medical Centre Limited		Mada Cleaning And General Supplies		Boogertman& Partners Architects
30		9		448		657	
	Afrishine Investment	24	First World Energy Services Company		Shine And Shine Cleaning Services		
31		U		449		658	Retail Management
	Aftrust Limited	24	Fortitude First Capital Limited		Harbour Cleaning Services Limited		
32		1		450		659	Polucion Services
33	Afvis Limited	24	Health First Pharmacy	451	Treasure Cleaning	660	Jeff Hamilton
	Afya Foods (Ea) Ltd	24	Lynx Mbagathi First Floor Limited		Gilt-Edged Cleaning And Supplies		
34		J		452		661	Floor Decor Kenya
	Agamaagama Enterprises Limited	24	First Energy Gas Suppliers Limited		Almond Cleaning Services Limited		
35		<del>'1</del>		453		662	Parshva Limited

	Agamu Contractors &General Supplies Ltd	24	First Accord Insurance Brokers Limited		Ronada Cleaning Services Limited		Nova Industries Limited
36				454		663	
25	Agenix Enterprises	24 6	First Order Chemical Solution Limited	455	Alson Cleaning Services Limited		
37				455		664	Farmparts Limited
	Agip Distributors Limited	24 7	First Choice Technologies Limited		Kirsteen Cleaning Services Limited		Hotel Waterbuck Limited
38				456		665	
	Agitec Solutions Limited	24	First Class Car Concierge Limited		Kebons Cleaning And Fumigattion		
39				457		666	Warren Enterprises
	Agkeniel Insurance Agency	24 9	Dynamic Twenty First Century Mining		Bubbles & Brushes Cleaning Services		Uni Industries East Africa Limited
40				458		667	
	Agoma Group Limited	25 0	Super First Logistics Limited		Absolute Cleaning And Consolidated		Waterman Drilling Africa
41				459		668	
	Aiden Investments Limited	25 1	First Response Security Limited		Planet Waste Management And		Nationwide Electrical Industries Limited
42				460		669	
	Aimway Enterprises	25 2	First Recruitment East Africa Limited		Glamor Cleaning Services Limited		
43				461		670	Faha Graphics
44	Airim General	25	Jema First Force	462	Procare Cleaning	671	Lexoworld Limited
	Aviation Parts And Supplies Limited	25 4	First Mile Logistics Limited		Pacific Cleaning Services Limited		
45				463		672	Fincredit Limited

	Avuity Limited	25 5	First Law Consult Limited		Martma Cleaning Services Limited		Well Told Story Limited
46		3		464		673	
47	Awaib Enterprises	25	United First Capital	465	Times Auto Garage	674	Dalco Kenya Ltd
	Axel Kenya Investment	25 7	First Rank Investments Limited		Oxygen Fitness Garage East Africa		R World Enterprises Limited
48				466		675	
40	Azalea Linx Trading Company	25 8	China Railway Twenty First Bureau	4.5	Peak Auto Spares And Garage Limited		
49				467		676	Farmers Fresh Feeds
50	Azema Management Consultancy	25 9	First Fruits Capital Investments Limited	468	Racy Auto Garage (K) Limited	677	Kisima Electro Mechanicals
51	Azima Holdings Limited	26	Sevo Transporters	469	Siadas Auto Garage	678	Valley Hospital
52	B Smart Products	26	Bomaas Trucks	470	Ajabu Motor Garage	679	Web Tribe/ Jambo Pay
53	Baduz Limited	26	Jamal Auto Spares And	471	Joka Auto Garage	680	Office Dynamics
54	Bael Systems Limited	26	Matrix Transporters	472	Harry Cat Garage	681	Citi Walk Limited
	Baldwin Enterprises Limited	26 4	Tel-Aviv Transporters And Suppliers		Metro Loima Auto Garage Limited		
55				473		682	Amiken Limited
	Balito Enterprises	26 5	East Africa Skystates Cleaning Services		Autostylez Garage Limited		
56				474		683	The Arts Group Ltd
57	Barberi Investments	26	Green Clean Solutions	475	Garage Bar And	684	Machines
58	Barbs Ventures	26	Melpet General	476	Kipesi Motor Garage	685	Power Governors Ltd
	Cam -Links Limited	26 8	Midwest Merchants And Transporters Limited		Digitech Auto Garage Limited		Enwealth Financial Services Ltd
59				477		686	
60	Camelbel	26	Pekbam Merchants	478	Core Computer	687	Bagdas Autospares
61	Cammosuh Logistics	27	Prime General	479	Gitathu Auto Garage	688	Space And Style
62	Campbell Construction Limited	27	Marcable General Merchants Limited	480	Horyal Spare Parts And Garage Limited	689	Hi-Tech Inks And Coating Ltd

63	Camtec Investment	27	Ziwalake Merchants	481	Redalf Garage	690	Neelon Construction
64	Canei General Suppliers Ltd	27	Merchant And General Company Of East	482	Dick Dick Auto Garage Limited	691	Africert Ltd
65	Canji Trading Ventures Limited	27 4	Granne Merchants & Supplies Limited	483	Car World Garage Limited	692	Hajar Services Ltd
66	Canopy Contractors	27	Makuti Merchants	484	Phixit Auto Garage	693	Skypex Supplies
67	Canopy Solutions (K) Limited	27	Tausi Paper And General Merchants	485	Skylux Computer Garage Limited	694	Dana Enterprises Ltd
68	Capital Edge Africa Limited	27 7	Naresho General Merchants Limited	486	Subaru Masters Autotech Garage	695	Lean Energy Solutions Ltd
69	Carelink International Group Limited	27 8	Mega General Merchants Limited	487	Modern Auto Converters & Garage	696	The Scott Travel Group Ltd
70	Caren Merchants Limited	27 9	Nate General Merchants Limited	488	Shib Outo Garage And Services Centre	697	Real Auto Spares
71	Carol Supplies & Agencies Limited	28	Mobifonne General Merchants Limited	489	Wakulima West Enterprises And	698	Fayaz Bakers Nrb
72	Carolle Holdings Kenya	28	Vibrant Merchants	490	Nyasanis Garage	699	Farmers Fresh Feeds

	Carson Holdings Limited	28	China Africa Merchants		Kidoli Investments		
72	Carson Holdings Emitted	2	Advisors Limited	401	Garage Limited	700	
73				491		700	Bluekey Seidor Ltd
	Casco Holdings Limited	28	Rango General Merchants Limited		Major Lines Auto Garage Limited		
74		3		492		701	Elite Tools
75	Castelo Limited	28	Sawa Merchants	493	Auto Range Garage	702	Apollo Tours & Travel
	Castle Planning And Environmental	28 5	Tawam General Merchants Limited		Solar Now Services Kenva Limited		Zimele Asset Management Co.
76				494		703	
77	Cathu Enterprises	28	Jordan General	495	Pharmaccess	704	Norda Industries
78	Causeway Global	28	Golden Guards Limited	496	Style Industries	705	Tdf Group Limited
79	Caymalik Services	28	Interforce Guards	497	Davis & Shirtliff	706	Morison Engineering
	Ccesy Enterprises Limited	28	Smart Bake Guards Limited		African Cotton Industries Limited		
80		9		498		707	Simba Technology
	Cd Clean Limited	29 0	Armoured Guarding Systems Co. Limited				
81		U		499	G4s Kenya Limited	708	Kenbro Industries
82	Cebeth Enterprises	29	Matocklyne Guard	500	Fadhili Development	709	Octagon Pension
	Cedana Company Limited	29	Strikers Defence Guards Limited		Vehicle And Equipment Leasing		Allwin Packaging International
83		2		501		710	
	Cee Davy Media Outlets Limited	29	Safe Guard Insurance Agency Limited		Capwell Industries Limited		
84		3		502		711	Smart Brands Limited
	Celerity Cleaners	29	Demi Security Guards Limited		Veteran Pharmaceuticals		Glory Car Hire Tours & Safaris
85		4		503		712	
	Cellcur Construction Limited	29			Haba Na Haba Solutions		East African Business Company Ltd
86		5	Premier Guards Limited	504		713	
	Centgold Africa Limited	29	Leo-Guard Security Services Liited		Medipoint Pharmaceuticals		Express Company Limited
87		6	Del vices Elited	505	1 narmaceuticais	714	Limited

	Centre For Research And Community	29 7	Security And Surveillance Guards				Executive Health Solutions Ltd
88				506	Rentworks Limited	715	
	Centric Technology Solutions Limited	29 8	Africa Protection Guards Limited				Specialized Aluminium
89		o		507	Tuffsteel Limited	716	
90	Centriff Ventures	29	Pevi Security Guard Services Limited	508	Civicon Limited	717	Enkavilla Properties
91	Centroline Supplies	30	Classic Guards Services	509	Prudence Hire	718	Sollatek Electronics
	Century Graphics	30	Natuc Laws Security Guards Limited		Hilton Nairobi Limited		Nationwide Power Systems Ltd
92				510		719	
93	Centurylink Business	30	Brand Guard Limited	511	Arm Cement Plc	720	Mic Global Risks
94	Cessmo Enterprises	30	Great Top Guards	512	Executive Super	721	Soliex Prosolve
	Cesur Enterprises Limited	30 4	Kibish Security Guards Limited		Destiny Electrical And Hardware		
95				513		722	One Trading Kenya
	Cewaga Enterprise	30 5	Paa Security Guards Limited		Doshi And Co Hardware Limited		
96				514		723	De Ruiter East Africa
	Chain Free Counseling Services	30 6	Kenya Fish Processors And Exporters		East African Cables Limited		
97				515		724	Valentine Cake House

98	Chairo Holding Limited	30	Batian Food Processors	516	Ace Pharmaceuticals	725	Goodman Agencies
99	Chamley Supplies	30	Aberdare Food	517	Adpack Limited	726	Travelcare Limited
	Chania Building And Electricals Limited	30	Cashewnut Processors (Kenya) Limited		Madawa Pharmaceuticals		
100				518		727	Varsani Brakelinings
101	Charindo Enterprise	31	Perch Processors (Epz)	519	The Copy Cat	728	Rsa Kenya Ltd
102	Zyten Investments Limited	311	Keno Fruit Processors Limited	520	Acumen Equities Limited	729	Lean Energy Solutions Ltd.
103	Zweena Enterprises	31	Parkview Processors	521	Agility Logistics	730	East African Canvas
	Zuplex Agencies	31	Inento Processors Kenya Limited		Clarence House Apartment Limited		
104				522		731	Digital City Ltd
105	Zumaridi Enterprises	31	Equitorial Food	523	Cobra Security	732	Plenser Ltd
106	Zulat Agencies	31	Fine Foods Processors	524	Comhard Ltd	733	Allwin Agencies (K)
107	Zukry General Traders	31	Bahati Food Processors	525	Cyber Trace Limited	734	Propack Kenya Ltd
108	Zoujin Africa Safaris	31	Digital Processors	526	Ecozoom East Africa	735	Vivek Investments Ltd
109	Zoonette Fashions And Designs	31 8	Yaako Food Processors Limited	527	Emometum Interactive Systems	736	Powerpoint Systems (Ea) Ltd
110	Zola Capital Limited	31	Eastobac Processors	528	Glacier Products	737	Coninx Industries Ltd.
111	Zodiak Engineers (K) Limited	32	Oasis Food Processors Company Limited	529	Gtide Mobile Phone Zimbabwe	738	Synermedica Pharmaceuticals
112	Ziwsda Ventures	32	Sarange Food Processors Limited	530	Heli Services Limited	739	Coast Industrials & Safety Supplies Ltd
113	Zipros Communications And Enterpreneurs	32 2	Cana Processors Limited	531	Hot Point Appliances Limited	740	Isolutions Associates
114	Zipcam Agency	32	Natural Delight	532	Kaab Investments	741	Avtech Systems
115	Zion Online	32	Wice Food Processors	533	Kapari Limited	742	Kenya Bus Service

116	Zintech International	32	Green Clean Limited	534	Kenya Credit	743	Muranga Forwarders
	Zila Systems Limited	32 6	Kitwek Pest Cleaning Services Limited		Libya Oil Kenya Limited		Synermed Pharmaceuticals (K)
117				535		744	
	Zidsel Enterprises	32 7	Hump Hills Cleaning And Sanitation Services				
118				536	Magnate Ventures	745	Tissue Kenya Ltd
	Zeyrah Enterprises Limited	32	Top Point Cleaning And General Works Limited		Omaera Pharmaceuticals		Kenya Highland Seed Co Ltd
119		O		537		746	
120	Zeyma Trading	32	Sure Cleaning Services	538	Patnet Steel Makers	747	Famiar Generating
	Zest Firm Enterprises	33	Prestige Gardening & Cleaning Services		Rover Land Autocare Services		
121		Ü		539		748	Alexander Forbes
	Zephmatt General Supplies	33			Savannah Cement Limited		Chemicals & School Supplies Ltd.
122		1	Squeaky Clean Limited	540		749	
	Zeolia Touch Enterprises Limited	33	Bluelady Cleaning And Sanitary Services				Charlstone Travel Limited
123		2		541	Incentive Travel	750	
124	Zenviron Services	33	Clean Silver	542	Tile And Carpet	751	Onfon Media Ltd

	Zenic Ventures Limited	33	Elegance Laundry & Dry Cleaning Limited		Transport And Lifting Services		
125		4		543		752	Elite Tools Ltd
126	Zenac Reproductive	33	Eco-Cleaning Limited	544	General Industries	753	Eurocon Tiles
	Zeky Ventures	33	Clean Bioenergy Limited		Alpha Medical Manufacturers		Endevour Africa Limited
127		0		545		754	
	Zeigham Enterprises Limited	33 7	Meroko Cleaning Services Limited		Bayer East Africa Limited		Rongai Workshop & Transport Ltd
128				546		755	
120	Zehal Investments Limited	33 8	Gabemma Cleaning Services And General	5.45	Bible Society Of Kenya	<b>55.</b>	
129				547		756	R & R Plastics Ltd
	Zarrin Company Limited	33 9			Abyssinia Iron And Steel Limited		Chigwell Holdings Ltd
130			Clean & Allied Limited	548		757	
	Zaria Limited	34 0	Christemat Cleaning And Catering Services				Classic Mouldings Limited
131				549	Cheki Kenya Ltd	758	
	Cedarcrest Limited	34	Hush Cleaning Services Limited		Kaylan Tours And Travel Limited		
132				550		759	Pewin Cabs Limited
	Ceder Links Limited	34	Njema Cleaning Service Limited		Sun Transfer Kenya Investment Limited		Novel Technologies Ea Ltd
133				551		760	
	Cellcom Network Connections Limited	34	Hydrojetting High Pressure Cleaning Services Limited		Ecolab East Africa		Xtreme Adventures
134		3		552	Ltd	761	Ltd
		34	Kensol Cleaning Chemicals & Detergents				Vintage Africa Limited
135	Triumph Exotica Ltd			553	Manoj Service Store	762	
		34 5	Patriotic Cleaning Services Limited		Nila Pharmaceuticals Limited		Punjani Electrical And Industrial Hardware
136	Benta Fresh Limited			554		763	
		34 6	Lavington Cleaning Services Limited		Nine One One Group Ltd		Spry Engineering Co. Ltd

137	Simba Fresh Produce Ltd			555		764	
138	Mofarm Fresh Fruits	34 7	Wesparkle Cleaning Services Limited	556	Generics Africa Limited	765	Pinnacle (K) Travel & Safaris
139	Total Fresh Exporters	34	L & L Sparkling Clean	557	Hass Petroleum	766	Panesars Kenya
139	Total Presil Exporters	J4	L& L Sparking Clean	331	Trass r en oreum	700	i aliesais Keliya
140	Kisaan Exports Ltd	34 9	Nairobee Carpet Cleaning Limited	558	Axis Real Estate Limited	767	Specialized Aluminium Renovators Ltd.
		35	Executive Cleaning Services Limited				
141	Saipei Foods Limited	0	Services Emilieu	559	Elite Tools Limited	768	Cube Movers Limited
142	Kanson Importers And	35 1	Sportless Cleaning Services Limited	560	Retriever Limited	769	Brogiibro Company Ltd
143	Kaizen Samawati	35 2	Broom And Rug Cleaning Company	561	Arn Security Consultants And	770	Total Solutions Ltd
		35	Twinkle Time Cleaning Services Limited		Baitany Agro-Vet Limited		
144	Moissanite Holdings			562		771	Tyremasters Ltd
	Bracken Hill Farm Limited	35 4	Clean Power Systems Kenya Limited				Xrx Technologies Limited
145				563	Autofibre Limited	772	
146	Amiin Tanneries Limited	35 5	Clean Water Works Services Limited	564	Autofine Limited	773	Sensation Ltd

147	Reddamac Leather	35	Jubilant Cleaning	565	Kibo Africa Limited	774	Eureka Technical
148	The Three Sixty Five Events Limited	35 7	Gati Cleaning Agency Limited	566	Equator Bottlers Limited	775	Palbina Travel Limited
149	Engineering Three Sixty Five Limited	35 8	Kakamega Bukura Professional Cleaning	567	Travel Creations Limited	776	Waumini Insurance Brokers Ltd
150	Three Sixty Five Logistics Limited	35 9	Cerberus Cleaning Solutions Limited	568	Brandworld Communications	777	Asl Credit Limited
151	Africa Three Sixty Five Mobility Limited	36 0	Sunflower Clean Cargo Dealers Limited	569	Toyota Kenya Limited	778	Zaverchand Punja Limited
152	Three Sixty Five Dynamic Options	36 1	Sifa Cleaning And Bins Limited	570	Fargo Courier Limited	779	Canon Chemicals Ltd
153	Discover Africa Three Sixty Five Limited	36	Clean Track Limited	571	New Light Africa Limited	780	Packaging Manufacturers(1976)
154	Three Sixty Five Sports Entertainment Ltd	36	Rojaisa Cleaning Services (K) Limited	572	Vetagro And Pulpers Company Limited	781	Trident Plumbers Ltd
155	Uhai Three Sixty Five Ltd	36 4	Damaza Dynamic Cleaning And	573	Moiben Connections Limited	782	Typotech
156	Design Three Sixty Five	36	Clean Link Limited	574	East End Chemists	783	Kinpash Enterprises
157	Anchor Safety & Equipment Limited	36 6	Clean City Media Limited	575	Pz Cussons East Africa Limited	784	Vehicle & Equipment Leasing Ltd
158	Anchor Graphics Work Company Limited	36 7	Ex-Tra Clean Limited	576	Sameer Africa Limited	785	Sheffield Steel Systems
159	Anchor Industrial	36	Doorstep Cleaning	577	Preshama Feeds	786	Complast Industries

160	Anchor Marketing	36	Clean Kea Limited	578	Pamoja Life Limited	787	Dune Packaging
161	Anchor Designs	37	Nurali Cleaning	579	Amiran Kenya	788	Hebatullah Brothers
162	Anchor In Westlands	37	Yare Cleaning Services	580	Dormans Coffee	789	Spice World Limited
	Anchor Trucking Limited	37 2	Cleancap Cleaning Cares Limited		Tusmo Travel Tours And Cargo Limited		Museum Hill Wines Ltd
163		2		581		790	
	Anchor Beverages Limited	37	Bomo Cleaning Services Company		Paksons Enterprises Limited		
164		3		582		791	Yogi Plumbers Ltd
	Anchor Property Consult Limited	37 4	Nadhiif Cleaning Services Limited		Melvin Marsh International Limited		
165				583		792	Vajra Drill Ltd
166	Anchor Real Estate	37	Hyssop Cleaning	584	Progressive	793	Melvn Marsh
	Anchor Delta Trading Company Limited	37 6	Mop It And Clean Ventures Limited		Laborex Kenya Limited		Kandiafresh Produce Suppliers Ltd
167				585		794	
	Anchor Technologies Limited	37 7	Primo Cleaning & Logistics Services		Rangechem Pharmaceuticals		
168		,		586		795	Fayaz Bakers Limited
169	Anchor Fleet Solutions	37	Msafi Cleaning Services	587	Tymstar Motors	796	Specicom
170	Anchor Capital Limited	37	Muchnc Cleaning	588	Wotech Kenya	797	Mombasa Canvas Ltd
171	Anchor Wine Agencies	38	Simetak Cleaning	589	Plexus Energy	798	Silverbirdtravel Plus

				Limited		
			590		799	Iron Art
Anchir Medical	38	Benjo Cleaning Services	591	Ultravetis East	800	Radar Limited
Anchor Engineering Consultancy Limited	38	Simba Cleaning Services Limited		Treadsetters Tyres Limited		Master Power Systems
			592		801	
Anchor Management Consultants Limited	38 4	Clean Green Environmental Services		Silverstone Tyres Kenya Limited		Hardware & Welding Supplies
			593		802	
Anchor Brand Company Limited	38 5	Essential Cleaning Services And Supplies	594	Future Phones Limited	803	Masters Fabricators Ltd
The Angher Wines	20	Damasam Classina		Crymbia Haalth		Software
And Spirits Limited	6	Services Limited		Limited		Technologies Ltd
			595		804	
Anchor Civil Works	38	Lynx Clean Art Limited	596	Airtel Networks	805	Heritage Foods Kenya
Anchor Plumbers Limited	38			Avenue Lease And Rentals East Africa		Africa Tea Brokers Ltd
		Clean For Real Limited	597		806	
Markline Freight Forwarders Limited	38	Garsesala Cleaning Services Limited		Emerald Touch Limited		
			598		807	Raerex (Ea) Limited
Marklin Holdings Limited	39	Shades Cleaning Services Limited		Awali Tumaini Investment Limited		Travelshoppe Company Ltd
	0		599		808	
Marklines Construction	39	Prime Cleaning Services	600	Kenya Stationers	809	Oriental General
Aberdares Farm Fresh Limited	39	Precise Pride Cleaning Solution Limited		Kinangop Dairy Limited		Chuma Fabricators Ltd
	2		601		810	
	39	Daveword Cleaning Services Limited		Scripture Mission East Africa		
Aberdare Foods Limited	3		602		811	Statprint Ltd
Aberdare Safaris And	39	First Cleaning Services	603	Chloride Exide (K)	812	Sollatek Electronics
Aberdare Farms Limited	39	Tmax Cleaning	604	Dsv Air And Sea	813	Smartbrands Ltd
	Inchor Management Consultants Limited  Inchor Brand Company Inchor Brand Company Imited  The Anchor Wines Inchor Civil Works Inchor Plumbers Imited  Institute Freight Institute	consultancy Limited  anchor Management Consultants Limited  anchor Brand Company imited  38 anchor Brand Company imited  38 anchor Civil Works  38 anchor Plumbers imited  4  Markline Freight orwarders Limited  4  Marklines Construction  39  Aberdares Farm Fresh imited  39  30  Aberdare Foods Limited  39  30  30  30  30  30  30  30  30  30	Consultancy Limited  3 Services Limited  3 Services Limited  3 Services Limited  3 Clean Green Environmental Services  3 Essential Cleaning Services And Supplies  3 Paracom Cleaning Services Limited  3 Services Limited  4 Clean For Real Limited  5 Clean For Real Limited  5 Clean For Real Limited  6 Services Limited  7 Services Limited  8 Clean For Real Limited  8 Clean For Real Limited  8 Clean For Real Limited  9 Services Limited  9 Services Limited  10 Services Limited  11 Services Limited  12 Services Limited  13 Services Limited  14 Services Limited  15 Services Limited  16 Services Limited  17 Services Limited  18 Services Limited  18 Services Limited  19 Services Limited  10 Services Limited  10 Services Limited  11 Services Limited  12 Services Limited  13 Services Limited  14 Services Limited  15 Services Limited  16 Services Limited  17 Services Limited  18 Services Limited  18 Services Limited  19 Services Limited  19 Services Limited  10 Services Limited  11 Services Limited  11 Services Limited  12 Services Limited  13 Services Limited  14 Services Limited  15 Services Limited  16 Services Limited  17 Services Limited  18 Services Limited	consultancy Limited 3 Services Limited 592  Inchor Management consultants Limited 4 Environmental Services 593  Inchor Brand Company imited 5 Services And Supplies 594  The Anchor Wines and Spirits Limited 6 Services Limited 596  Inchor Civil Works 38 Lynx Clean Art Limited 596  Inchor Plumbers imited 8 Clean For Real Limited 597  Inarkline Freight orwarders Limited 9 Services Limited 598  Inarkline Holdings 39 Services Limited 598  Inarkline Governmental Services 1 Services Limited 598  Inarkline Freight orwarders Limited 599  Inarkline Freight orwarders Limited 599  Inarkline Freight One Services Limited 599  Inarklines Construction 39 Prime Cleaning Services 600  Inarklines Construction 39 Prime Cleaning Services 600  Inarklines Construction 39 Precise Pride Cleaning Solution Limited 601  Inarklines Construction 39 Daveword Cleaning Services Limited 601  Inarklines Construction 39 Daveword Cleaning Services Limited 601  Inarklines Construction 39 Precise Pride Cleaning Services Limited 601  Inarklines Construction 39 Precise Pride Cleaning Services Limited 601  Inarklines Construction 39 Prime Cleaning Services Limited 601  Inarklines Construction 39 Prime Cleaning Services Cleaning Services Limited 602	Services Limited   Services Limited   Services Limited   Silverstone Tyres	Services Limited  3 Services Limited  592 Limited  593 801  1000 Silverstone Tyres 1000 Kenya Limited  594 Silverstone Tyres 1000 Kenya Limited  595 Silverstone Tyres 1000 Kenya Limited  596 Silverstone Tyres 1000 Kenya Limited  597 Services And Supplies  598 Sumbio Health 1000 Limited  599 Services Limited  590 Airtel Networks  590 Airtel Net

	Aberdares College Limited	39 6	Pestguard Services And Cleaning Solutions		Galana Oil Kenya Limited		De Ruiter East Africa Ltd
187				605		814	
188	Aberdare Aqua Fisheries	39	Clean Homes Painters	606	Kim Fay Ea Ltd	815	Kisima Drilling (Ea)
189	Aberdare Capital	39	Life Cleaning Solution	607	Mobisol Kenya	816	Care Chemists
190	Aberdare Housing	39	New Age Cleaning	608	My Isp Limited	817	Brollo Kenya Ltd
	Aberdare Highlands Hide Skins & Meat	40	Pamuka Cleaning Services Limited		Sheqel Investments Company Limited		Canon Aluminium Fabricators Ltd
191				609		818	
	Aberdares Riri Flowers Limited	40 1	Tidy Touch Cleaning Services Limited		Solo Plant Kenya Limited		Satguru Travel & Tours Ltd
192				610		819	
	Aberdare Kinangop Country Resort Limited	40	Virtually Spotless Cleaning Services				Kunal Hardware And Steel
193				611	Total Kenya Limited	820	
	Aberdare Borehole Services Limited	40	All-Tyme Cleaning Services Limited		Usafi Services Limited		Deepa Industries Limited
194				612		821	
	Aberdare Civil Engineering &	40 4	Uhai Cleaning Services Limited		Kountable Trading Limited		Skylark Creative Products Ltd.
195				613		822	
	Aberdares Country Homes Limited	40 5	Residential Care And Cleaning Services		Senaca International Limited		Uneek Freight Services Ltd
196				614		823	

107	Aberdare Institute Of Business & Catering	40 6	Onset Cleaning Services Limited	615	Skanem Interlabels Nairobi Limited	024	
197				615		824	Bbc Auto Spares Ltd
	Aberdare Cleaning Services Limited	40 7	Quickperformers Cleaning Company		Sound Creations Limited		Lantech (Africa) Limited.
198				616		825	
	Aberdare Supermarkets Limited	40 8	Wafukhim Cleaning & Suppliers Limited		The Rodwell Press Limited		
199				617		826	Polytanks Limited
200	Royal Aberdare Resort	40	Yolanda Cleaning	618	Road Track		
	Aberdares Renewable Energy Limited	41	Kabak Garbage & Cleaning Services		Farmers World Limited		
201				619			
	Aberdares Business And Industrial Park Limited		Ok Cleaning & General Services Limited		Crown Paints Kenya Limited		
202		411		620			
203	Aberdare Sky Traders	41	Basca Cleaning Services	621	Rivercross Tracking		
	Aberdare West Timber & Hardware Limited	41	Focus Cleaning Services Limited		Absolute Security Limited		
204				622			
	Aberdare Spa & Safari Lodge Limited	41	Wakim Cleaning & Maintainance Services		Bel-Ea Pharmacy Limited		
205				623			
	Aberdare Mist Beverages Company Limited	41	Circuit Cleaning Services Limited				
206				624	Kenchic Limited		
	One Stop Aberdare Medical Centre Limited	41	Gloragol Cleaning & Gabbage Collection Co.		Economic Industries Limited		
207				625			
208	Aberdare Nursing Home	41	Clean Right Cleaners	626	Blay Energy Limited		
	Aberdare Agro-Products (Kenya) Limited	41	Windfall Cleaning Solutions Limited				
209				627	Eon Energy Limited		

Source: MSEA 2021; E-citizen 2021