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Fintech and Financial Inclusion: Evaluating the Impact of Mobile Banking on SME Growth in Sub-Saharan Africa

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ABSTRACT

This study investigates the role of mobile banking as a fintech innovation in enhancing financial inclusion and promoting the growth of small and medium-sized enterprises (SMEs) in Sub-Saharan Africa. Despite the region's historical limitations in accessing formal financial services, the widespread adoption of mobile banking presents a transformative opportunity for SMEs to overcome traditional financial constraints. Using a quantitative research design, primary data were collected through structured questionnaires administered to SME owners across Nigeria, Ghana, and Kenya. The data were analyzed using descriptive statistics and regression analysis via SPSS and STATA software. Findings indicate a strong positive correlation between mobile banking usage and improvements in SME financial accessibility, operational efficiency, and revenue growth. The study also identifies digital literacy, regulatory support, and infrastructure quality as critical moderating factors in mobile banking adoption. By shedding light on the socio-economic implications of digital financial services, this research contributes to the discourse on inclusive finance and offers policy recommendations to deepen mobile banking penetration and SME support mechanisms across the region. The study underscores the potential of fintech solutions to bridge financial gaps and catalyze inclusive economic development in Sub-Saharan Africa.

Keywords: Fintech, Financial Inclusion, Mobile Banking, SMEs, Sub-Saharan Africa, Digital Finance, Economic Growth.

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I. INTRODUCTION

1.1 BACKGROUND OF THE STUDY

Financial inclusion has emerged as a central pillar in the discourse on economic development, especially in low- and middle-income regions such as Sub-Saharan Africa (SSA). Financial inclusion refers to the ability of individuals and businesses to access and use a range of affordable financial products and services that meet their needs—transactions, payments, savings, credit, and insurance—delivered in a responsible and sustainable manner. The persistence of financial exclusion in SSA, where a significant percentage of the population, especially small and medium-sized enterprises (SMEs), remain outside the formal financial system. poses a major developmental constraint (Osei-Assibey, 2021). SMEs are crucial to the region's economy, representing over 90% of businesses and generating more than 60% of employment. Yet, many SMEs struggle to access formal credit, reliable payment systems, and savings mechanisms, hindering their growth potential and sustainability (Adu, 2020).

The advent of financial technology (fintech), and more specifically mobile banking, presents an unprecedented opportunity to overcome these longstanding barriers. Fintech comprises technological innovations that disrupt traditional financial services by making them more accessible, efficient, and userfriendly. In SSA, the mobile phone revolution has significantly increased access to digital financial services, enabling fintech to thrive even in areas lacking basic banking infrastructure (Jack & Suri, 2023). Mobile banking services—delivered via USSD codes, mobile apps, and SMS—allow users to deposit money, make payments, apply for micro-loans, and access insurance products without physically visiting a bank branch. Countries like Kenya, Ghana, Nigeria, and Tanzania have witnessed remarkable success stories with mobile banking platforms such as M-Pesa, MTN Mobile Money, and Paga, which have become deeply integrated into both individual and business transactions (Asongu et al., 2020).

This fintech-led transformation holds particular promise for SMEs, which often operate in informal sectors with limited access to conventional banking services. Mobile banking provides a digital platform through which SMEs can receive payments, manage cash flow, obtain credit, and build digital financial histories that can substitute for collateral or formal credit records. For example, access to microcredit through mobile

DOI: 10.9790/5933-1603063043 www.iosrjournals.org 1 | Page platforms enables SMEs to invest in inventory, technology, or expansion strategies, thereby directly contributing to their growth (Yeboah et al., 2021). In addition, digital savings tools help SMEs manage income volatility, while mobile-based insurance services offer a cushion against business risks and shocks.

However, while the potential is significant, the impact of mobile banking on SME growth in SSA is not evenly distributed. Several contextual factors—such as digital literacy, regulatory environments, mobile network coverage, and trust in fintech services—moderate the effectiveness of mobile banking as a tool for financial inclusion. In regions where digital literacy is low, SMEs may struggle to understand or trust mobile financial platforms, thereby limiting their use (Ejiogu & Eze, 2022). Similarly, inadequate mobile infrastructure in rural and underserved areas continues to exclude a segment of SMEs from reaping the benefits of fintech. Regulatory and policy barriers, including inconsistent fintech legislation and data protection issues, also create friction in the adoption and scalability of mobile banking solutions (Bongomin, 2020).

Cybersecurity concerns have further emerged as a significant threat to fintech adoption. Many SMEs fear identity theft, fraud, or the loss of business data when using mobile banking platforms, particularly in the absence of clear legal recourse mechanisms. Interoperability is another issue, where services offered by different mobile money operators are not easily integrated, causing fragmentation in the financial ecosystem and limiting transaction efficiency (Adu, 2020). Moreover, gender disparities persist in mobile banking usage, as women-led SMEs are often less likely to own mobile devices or have the digital literacy required to engage with fintech platforms effectively (Osei-Assibey, 2021).

Despite these limitations, the benefits of mobile banking for SME development are undeniable. Empirical studies across SSA have shown that SMEs that adopt mobile banking services are more likely to experience business growth, improved customer retention, and easier access to capital (Yeboah et al., 2021). Mobile financial services have also enabled many informal SMEs to gradually formalize their operations by building verifiable transaction histories, which can be used to access larger financial services or participate in government programs. These outcomes are especially vital in post-COVID-19 recovery strategies, as digital finance offers a low-cost, contactless, and scalable method for economic inclusion and business continuity.

Given these dynamics, it becomes imperative to empirically assess the impact of mobile banking on SME growth within the broader framework of financial inclusion in SSA. While anecdotal evidence suggests positive correlations, rigorous academic evaluation is necessary to understand the depth and nuances of this relationship across diverse economic, cultural, and regulatory contexts. This study, therefore, seeks to bridge the gap in the literature by critically evaluating how mobile banking, as a component of fintech, enhances SME performance, resilience, and scalability in Sub-Saharan Africa. By doing so, the research contributes to the growing body of knowledge on digital financial inclusion and offers practical insights for policymakers, development practitioners, and fintech innovators aiming to foster inclusive economic growth in the region.

1.2 RESEARCH PROBLEM AND SIGNIFICANCE

Despite the remarkable proliferation of mobile banking platforms across Sub-Saharan Africa, many small and medium-sized enterprises (SMEs) continue to face significant challenges in accessing and utilizing financial services essential for business growth. While mobile banking has been widely credited with enhancing financial inclusion, empirical evidence on its actual impact on SME performance remains fragmented, context-specific, and sometimes inconclusive (Asongu et al., 2020; Yeboah et al., 2021). In some countries, mobile banking has substantially improved access to credit, reduced transaction costs, and facilitated business expansion. In others, however, the benefits are less evident due to infrastructural deficits, digital illiteracy, and weak regulatory frameworks (Bongomin, 2020; Ejiogu & Eze, 2022). This inconsistency presents a gap in understanding the precise mechanisms through which mobile banking influences SME growth, particularly in diverse socio-economic environments across the region.

Additionally, while financial inclusion is generally assumed to contribute positively to economic development, there is limited empirical evaluation of how digital financial tools—such as mobile banking—translate into measurable outcomes for SME growth, innovation, or survival. Most existing studies tend to focus broadly on financial inclusion or mobile money adoption without disaggregating the effects on enterprise-level performance metrics such as revenue, employment, market access, or business formalization (Osei-Assibey, 2021). Moreover, many SMEs in SSA remain informally registered, which complicates efforts to evaluate their financial behaviors and limits their access to formal credit systems despite the availability of mobile financial platforms.

This study is significant for several reasons. First, it provides a focused and data-driven evaluation of the relationship between mobile banking and SME growth, addressing a clear empirical and policy gap in the literature. Second, by identifying the enabling and inhibiting factors affecting the use of mobile banking among SMEs, the research offers practical insights for financial service providers, fintech developers, and policymakers aiming to foster inclusive economic development. Third, understanding how mobile banking contributes to

business scalability and resilience has become even more critical in the post-COVID-19 era, where digital transformation is no longer optional but essential for business continuity (Jack & Suri, 2023).

The findings of this research will contribute to the theoretical understanding of fintech as a development tool and provide actionable recommendations for enhancing SME access to digital financial services. Ultimately, the study aims to support evidence-based policymaking and innovation strategies that align fintech development with inclusive and sustainable growth in Sub-Saharan Africa.

1.3 RESEARCH OBJECTIVES AND QUESTIONS

To address the existing gaps in the literature and provide an empirical assessment of the influence of mobile banking on SME growth within the context of financial inclusion in Sub-Saharan Africa, this study is guided by the following research objectives and questions.

Research Objectives

- 1. To evaluate the extent to which mobile banking enhances access to financial services among SMEs in Sub-Saharan Africa.
- 2. To examine the impact of mobile banking usage on the growth and performance of SMEs in terms of revenue generation, market expansion, and employment capacity.
- 3. To identify the challenges and limitations hindering the effective use of mobile banking services by SMEs in the region.
- 4. To explore the role of regulatory frameworks and digital infrastructure in moderating the relationship between mobile banking and SME development.

Research Questions

- 1. How has mobile banking influenced access to financial services among SMEs in Sub-Saharan Africa?
- 2. What is the impact of mobile banking on the growth performance of SMEs in terms of business expansion, profitability, and employment generation?
- 3. What are the key barriers and constraints affecting SMEs' adoption and effective use of mobile banking services?
- 4. How do regulatory policies and digital infrastructure shape the effectiveness of mobile banking in driving SME growth in Sub-Saharan Africa?

These objectives and questions will guide the empirical analysis of the study and help generate policy-relevant findings that contribute to the broader discourse on fintech and inclusive economic development in emerging economies.

1.4 SCOPE AND LIMITATIONS OF THE STUDY

The scope of this study is centered on evaluating the impact of mobile banking, as a subset of financial technology (fintech), on the growth and performance of small and medium-sized enterprises (SMEs) within selected countries in Sub-Saharan Africa. The focus is on how mobile banking services—such as mobile money transfers, mobile savings, digital credit, and mobile payments—enhance financial access, improve business operations, and contribute to the scalability and sustainability of SMEs. The study specifically targets SMEs that operate in both urban and peri-urban settings, where mobile banking infrastructure is relatively available and usage is growing. Countries such as Kenya, Nigeria, Ghana, and Uganda are prioritized due to their advanced mobile money ecosystems and diverse SME landscapes.

The study limits its investigation to mobile banking platforms accessed through mobile phones rather than broader fintech tools like blockchain, peer-to-peer lending, or cryptocurrency. Furthermore, it emphasizes SME growth in terms of financial inclusion, access to credit, revenue generation, employment, and market expansion rather than sector-specific performance indicators. While qualitative insights may be drawn from interviews and case studies, the primary analysis will rely on quantitative data and survey responses to establish measurable patterns and relationships.

However, the study has several limitations. First, the heterogeneity of the SME sector across different Sub-Saharan African countries may limit the generalizability of the findings. Differences in regulatory frameworks, mobile network penetration, and financial behavior could result in contextual variances that affect the interpretation of results. Second, access to reliable and disaggregated data on SME performance, especially in the informal sector, remains a major challenge. Many SMEs operate outside formal documentation structures, making it difficult to track their financial records and growth trends accurately.

Another limitation is the potential for self-reporting bias in survey responses, as SME owners may overstate or understate the impact of mobile banking due to personal perceptions or expectations. Additionally, the study may be constrained by time and resources, restricting its ability to conduct longitudinal assessments that could provide deeper insights into the long-term impact of mobile banking on SME development.

Despite these limitations, the study offers significant value by shedding light on an important intersection between fintech innovation and inclusive economic growth. Its findings are expected to provide

actionable recommendations for policymakers, financial service providers, and development stakeholders in advancing the digital transformation of financial services for SMEs in Sub-Saharan Africa.

II. LITERATURE REVIEW

2.1 THEORETICAL AND CONCEPTUAL FRAMEWORK

The relationship between fintech-driven mobile banking and SME growth within the context of financial inclusion in Sub-Saharan Africa (SSA) is best understood through relevant economic and innovation theories that explain technological adoption, access to finance, and enterprise performance. This section discusses two core theoretical models—Diffusion of Innovation Theory and Financial Intermediation Theory—and proceeds to develop a conceptual framework that integrates mobile banking adoption and SME growth.

2.1.1 Theoretical Framework

Diffusion of Innovation Theory (DOI)

Originally proposed by Rogers (1962), the Diffusion of Innovation Theory remains a cornerstone in explaining how new technologies are adopted and diffused across societies. The theory identifies five key factors that influence the adoption of innovation: relative advantage, compatibility, complexity, trialability, and observability. In the context of mobile banking, SMEs are more likely to adopt such innovations if the technology is perceived to offer a clear advantage over traditional banking methods, is compatible with existing operations, and is easy to use (Kebede & Chekol, 2022). This theory is particularly relevant in SSA, where informal enterprises may adopt mobile banking due to its ease of use, low cost, and accessibility in the absence of traditional banking services.

Financial Intermediation Theory

Financial intermediation theory, as expanded in recent years, posits that financial institutions serve as crucial intermediaries that mobilize and allocate financial resources efficiently. When applied to mobile banking, fintech firms function as non-traditional intermediaries that reduce transaction costs, enhance credit access, and mitigate information asymmetry between borrowers (SMEs) and lenders (financial institutions or digital lenders) (Asongu & Nwachukwu, 2020). This theory is particularly useful in explaining how digital platforms—like M-Pesa, MTN Mobile Money, and Paga—bridge the financial inclusion gap by enabling SMEs to secure credit, make transactions, and build financial histories that can support future growth.

These two theories jointly provide a robust lens for analyzing how mobile banking services are adopted and how they influence SME financial performance and scalability.

2.1.2 Conceptual Framework

Based on the reviewed theories and empirical studies, this study develops a conceptual framework that links mobile banking adoption to SME growth outcomes through the mediating effect of financial inclusion. The framework also considers contextual and regulatory variables that may moderate this relationship.

Independent Variable:

• **Mobile Banking Adoption**: Defined as the use of mobile-enabled financial services, including mobile money transfers, digital payments, mobile savings, and digital credit services by SMEs.

Mediating Variable

• **Financial Inclusion**: Refers to improved access to and usage of affordable financial services, including credit, insurance, savings, and digital payments.

Dependent Variable:

• **SME Growth**: Measured in terms of revenue expansion, employment generation, market access, and operational scalability.

Moderating Variables:

- **Digital Infrastructure** (e.g., network coverage, smartphone penetration)
- Regulatory Environment (e.g., fintech laws, consumer protection, interoperability policies)
- Entrepreneurial Digital Literacy (i.e., SME owners' capacity to engage with digital financial platforms)

This conceptual model assumes that mobile banking positively affects SME growth primarily by enhancing financial inclusion. However, the strength and direction of this effect are shaped by infrastructural, regulatory, and cognitive factors, particularly within SSA's diverse economic contexts.

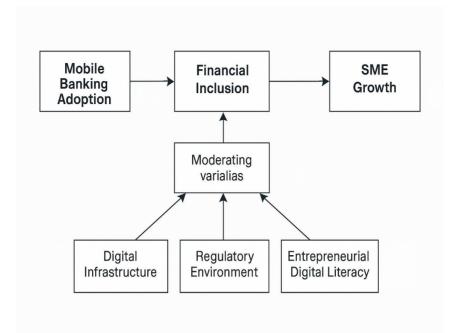


Figure 1: Conceptual Framework Illustrating the Link between Mobile Banking and SME Growth

This framework forms the foundation for the hypotheses and empirical model of the study, offering a structured understanding of how fintech—particularly mobile banking—can drive inclusive growth through small enterprise development in resource-constrained environments like SSA.

2.2 FINTECH AND FINANCIAL INCLUSION: CONCEPTUAL UNDERPINNINGS

Fintech, short for financial technology, represents the integration of digital innovations with financial services to enhance efficiency, reduce transaction costs, and broaden access to finance. It encompasses a wide array of digital tools and platforms, including mobile payments, peer-to-peer (P2P) lending, digital wallets, crowdfunding, robo-advisors, and blockchain-based applications (Adu et al., 2020; Ozili, 2021). By disrupting traditional banking models that often rely on physical presence and high overhead costs, fintech opens new avenues for service delivery to underbanked and unbanked populations, particularly in low-income and rural settings.

Financial inclusion, on the other hand, refers to the accessibility and usability of affordable financial services—such as savings, credit, insurance, and payment systems—by individuals and businesses, especially those previously excluded from the formal financial sector. It is recognized as a driver of poverty alleviation, economic participation, and enterprise development (Demirgüç-Kunt et al., 2022). The World Bank (2022) reiterates that sustainable financial inclusion not only involves access but also the responsible usage of these financial tools to improve welfare and productivity.

In the Sub-Saharan African (SSA) context, the intersection of fintech and financial inclusion is especially significant. Over 60% of adults in the region remain unbanked, largely due to geographic, economic, and infrastructural barriers (Jack & Suri, 2023). However, the rapid penetration of mobile phones has paved the way for mobile-based financial solutions that bypass the limitations of brick-and-mortar banking institutions. As a result, fintech innovations—particularly mobile banking—are regarded as key enablers of inclusive finance, providing users with secure, real-time, and low-cost financial services.

Mobile banking has emerged as the most transformative and widespread fintech solution in SSA. Services such as **Kenya's M-Pesa**, **Nigeria's Paga**, **Ghana's MTN Mobile Money**, and **South Africa's FNB eWallet** have become integral to both personal and business finance. These platforms allow users to perform a variety of transactions, including deposits, withdrawals, money transfers, bill payments, and access to microcredit—all via mobile phones without the need for formal bank accounts (Asongu et al., 2020; Adegbite & Mavrotas, 2022). For small and medium-sized enterprises (SMEs), especially those operating informally or without formal credit records, mobile banking serves as a gateway to financial tools that can help sustain and expand business activities.

Moreover, mobile banking facilitates better financial management by enabling SMEs to digitize their payments, reduce cash handling risks, track sales, and engage in cash flow forecasting. It also allows for the digital profiling of users, which in turn enhances their creditworthiness in the eyes of digital lenders and microfinance institutions (World Bank, 2022). By creating a digital footprint of transactions and savings behavior, mobile banking platforms help build informal credit histories, thereby mitigating the information

asymmetry that has traditionally hindered small businesses from accessing formal finance (Alemayehu & Olayemi, 2021).

From a broader perspective, mobile banking has become a critical lever for improving financial resilience, entrepreneurship, and economic mobility in SSA. Its impact goes beyond transaction convenience; it supports financial empowerment, social inclusion, and even gender equity, as more women are now able to independently manage financial resources through mobile accounts (Demirgüç-Kunt et al., 2022; Jack & Suri, 2023).

In essence, the convergence of fintech and financial inclusion in SSA—spearheaded by mobile banking—is redefining how underserved populations interact with the financial system. The region's fintech landscape is not only improving access to credit and savings but also enabling SMEs to scale operations, manage risks, and participate more meaningfully in the formal economy. However, while the gains are promising, challenges such as digital literacy, cyber-security, limited interoperability, and regulatory constraints continue to shape the impact and scalability of these solutions (Ozili, 2021).

2.3 MOBILE BANKING AND SME FINANCING

Small and medium-sized enterprises (SMEs) are recognized as vital contributors to economic development, employment creation, and poverty reduction, particularly in developing regions such as Sub-Saharan Africa (SSA). Despite their importance, SMEs often encounter systemic barriers to financial access due to factors such as limited formal registration, irregular cash flows, lack of collateral, and inadequate financial records. These issues lead traditional banks to classify SMEs as high-risk borrowers, resulting in low lending rates and restricted access to credit (Ejiogu & Eze, 2022; IFC, 2021).

Mobile banking has emerged as a transformative solution to these financing challenges by offering digital alternatives to conventional financial services. Through innovations such as **digital credit scoring**, **automated micro-savings schemes**, and **mobile transaction histories**, mobile banking platforms enable SMEs to generate the financial data required to access loans and build creditworthiness (Alemayehu & Olayemi, 2021). These digital footprints can substitute for conventional documentation and collateral, thereby opening new avenues for financing even among informal or semi-formal enterprises.

As noted by Osei-Assibey (2021), mobile banking allows SMEs to access microloans on flexible terms, manage cash flow in real time, and execute payments without reliance on physical bank branches. This capability is particularly valuable in rural or underserved areas where banking infrastructure is limited or non-existent. The convenience and low cost of mobile banking reduce the financial and time burdens traditionally associated with securing formal finance. Furthermore, many mobile banking applications are integrated with credit risk algorithms that evaluate borrowers based on transactional behavior rather than credit history, enabling inclusive financial assessment.

Beyond credit access, mobile banking platforms are increasingly offering **value-added services** that enhance business operations. These include inventory management modules, sales tracking tools, financial literacy content, and linkages to suppliers or buyers. By embedding such services into mobile applications, fintech providers support the holistic development of SMEs, enabling them to digitize operations, improve record-keeping, and engage in formal economic networks (Yeboah et al., 2021). For instance, platforms like M-Pesa in Kenya, MoMo in Ghana, and Paga in Nigeria now partner with digital lenders and fintech aggregators to offer bundled business solutions tailored to small enterprises.

The digital payment feature of mobile banking has also proven pivotal. It enhances not only **transactional efficiency**—through faster, secure, and traceable payment processing—but also **customer trust** and **business credibility**. SMEs that offer mobile payment options are perceived as more professional, which can attract repeat customers, larger contracts, and supplier partnerships (Boateng et al., 2023). This is particularly relevant in economies with a large informal sector, where digital payments help businesses create transparent transaction histories and prepare for formalization or taxation compliance.

Moreover, mobile banking contributes to the **formalization of informal enterprises** by giving them access to financial accounts and tools that are trackable, reportable, and potentially auditable. Formalization, in turn, opens pathways to more stable financing, government support programs, and participation in larger value chains (Asongu et al., 2020). In countries like Rwanda and Uganda, regulatory partnerships between mobile money providers and central banks have enabled small traders and informal vendors to be registered digitally and access formal identification-linked wallets, fostering financial inclusion and enterprise visibility.

Nonetheless, the extent to which SMEs benefit from mobile banking still depends on several contextual factors, including mobile network coverage, digital literacy levels, data security, and the affordability of mobile services. In some cases, limited understanding of financial terms or low confidence in digital systems may hinder adoption among small business owners, particularly in rural or less-educated populations (Adegbite & Mavrotas, 2022). Therefore, while mobile banking holds immense promise for SME financing, its scalability

must be accompanied by capacity-building efforts and policy frameworks that enhance user trust and interoperability across platforms.

In summary, mobile banking is not merely a financial convenience; it is a catalyst for inclusive business financing and sustainable SME growth in SSA. By providing accessible, data-driven, and customercentric financial tools, mobile banking empowers SMEs to overcome longstanding structural constraints and to transition toward resilience, formality, and growth.

2.4 EMPIRICAL EVIDENCE ON MOBILE BANKING AND SME GROWTH

Empirical research conducted across Sub-Saharan Africa (SSA) consistently affirms that mobile banking plays a crucial role in supporting the growth and sustainability of small and medium-sized enterprises (SMEs). These impacts are, however, context-dependent and moderated by a combination of infrastructural, socio-economic, and regulatory factors. Mobile banking contributes to SME development by improving access to working capital, reducing transactional friction, enhancing record-keeping, and enabling access to broader markets and formal financial services.

In Uganda, Bongomin (2020) conducted a mixed-method study that revealed a significant positive correlation between mobile banking adoption and SME growth indicators such as access to credit, inventory turnover, and employment generation. The study found that mobile financial platforms enabled SMEs to build digital financial histories that acted as informal credit scores, thereby easing access to credit from microfinance institutions and fintech lenders. This access not only increased working capital but also allowed SMEs to expand operations and hire additional workers, indicating a direct pathway from financial inclusion to employment creation.

Similarly, Yeboah et al. (2021) investigated mobile banking usage among SMEs in Ghana and observed that firms leveraging these platforms experienced higher rates of business expansion and customer acquisition than those that relied solely on cash-based or traditional banking methods. Mobile banking services allowed SMEs to accept payments from geographically dispersed customers, maintain liquidity during cash crunches, and access real-time market information. These capabilities gave mobile banking adopters a competitive edge and enabled them to scale operations more efficiently.

In Nigeria, a study by Ejiogu and Eze (2022) highlighted that mobile money services contributed to improved financial management among SMEs by facilitating quicker transactions, seamless payment of suppliers, and digital savings mechanisms. The increased cash flow transparency also helped entrepreneurs separate personal and business finances, a critical issue in the informal sector. However, the study also emphasized that mobile banking's penetration was uneven across regions, with rural businesses lagging due to infrastructural barriers such as unstable network coverage and limited electricity. Moreover, digital illiteracy—especially among women and older entrepreneurs—was cited as a barrier to full adoption, suggesting that mobile banking alone is insufficient without complementary digital education and infrastructure investment.

In Kenya, where mobile money innovation has been at the forefront of financial inclusion, Jack and Suri (2023) presented compelling longitudinal evidence showing that consistent use of mobile money services such as M-Pesa led to increased investment in productive assets and higher business resilience during economic shocks. Their findings demonstrated that microenterprises using mobile platforms for savings and transfers were more likely to withstand downturns and reinvest profits into growth-related activities, such as inventory expansion and equipment acquisition. Notably, the study found that long-term engagement—rather than one-off access—was critical for mobile banking to generate meaningful business outcomes. This reinforces the idea that usage intensity and platform integration into day-to-day operations are key determinants of fintech's impact on SME development.

Beyond individual country studies, regional analyses provide additional validation. A report by the African Development Bank (AfDB, 2021) shows that mobile banking has helped bridge the SME finance gap in several SSA countries by enabling new credit scoring techniques based on digital behavior and offering loan products that are more tailored to the realities of small enterprises. These data-driven tools, combined with mobile platforms' scalability, have allowed for rapid deployment of financial services even in remote or conflict-affected areas.

Nonetheless, challenges remain. Empirical findings also point to digital exclusion risks, with womenowned SMEs, rural businesses, and enterprises led by less-educated individuals often facing adoption hurdles due to cost, lack of trust in digital systems, and minimal support from mobile service providers (Alemayehu & Olayemi, 2021). Additionally, cybersecurity concerns and the absence of comprehensive data protection frameworks have discouraged some SMEs from embracing mobile financial services fully.

In summary, empirical studies across SSA confirm the substantial yet contextually mediated impact of mobile banking on SME growth. While increased access to finance, better financial management, and improved customer outreach are common benefits, the degree of impact is heavily influenced by user literacy, platform reliability, regulatory support, and socio-cultural dynamics. For mobile banking to fulfill its full potential in

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driving inclusive SME development, targeted interventions such as digital education, infrastructure expansion, and regulatory harmonization are necessary to address these underlying disparities.

2.5 BARRIERS TO MOBILE BANKING ADOPTION BY SMES

Despite the widespread enthusiasm for mobile banking as a tool for improving SME access to financial services in Sub-Saharan Africa (SSA), its effective adoption and usage remain constrained by several interrelated barriers. These obstacles are not merely technical but are also deeply rooted in socio-economic, institutional, and regulatory contexts, leading to uneven access and limited impact among different SME segments.

A primary barrier is the pervasive lack of digital literacy, particularly among micro and small enterprises located in rural and peri-urban areas. Many SME owners lack the technical know-how to effectively navigate mobile financial platforms, resulting in underutilization of key services such as digital credit, remote payments, or business analytics tools embedded in mobile apps (Adu et al., 2020). Digital skills gaps are more pronounced among older business owners and individuals with limited formal education, who may struggle to interpret digital financial statements or secure transactions.

In addition to literacy challenges, issues of platform interoperability further hinder mobile banking adoption. In several SSA countries, mobile money services operate as closed-loop systems, meaning users can only transact within the same network or service provider. This lack of integration between telecom-based mobile money operators and formal banking institutions creates fragmented financial ecosystems that reduce convenience and increase transaction costs for SMEs (Bongomin, 2020). For instance, an SME using one provider may be unable to seamlessly transfer funds to a supplier or customer using another, disrupting business operations and discouraging uptake.

Regulatory and institutional constraints also play a significant role. Many mobile banking ecosystems in SSA operate within a patchy regulatory environment characterized by unclear legal frameworks, inconsistent enforcement, and limited consumer protection policies. The absence of strong data privacy laws and cybersecurity protocols undermines user trust, particularly when reports of fraud, system outages, or identity theft are prevalent (Osei-Assibey, 2021). Regulatory uncertainty also stifles innovation and limits the willingness of financial technology companies to invest in services targeting underserved SME markets.

Gender-based disparities present another critical barrier, particularly for women-led SMEs. Studies consistently show that women in SSA are less likely to own mobile phones or have access to smartphones with internet capabilities, which are prerequisites for utilizing more advanced mobile banking features (Ejiogu & Eze, 2022). Cultural norms, time poverty, and limited digital confidence among female entrepreneurs further exacerbate the digital divide. Even when women have physical access to mobile devices, they are less likely to use them for complex financial transactions due to fear of making costly mistakes or being defrauded.

Furthermore, informal SMEs—those operating without formal registration or tax identification—often fall outside the reach of both government-driven financial inclusion programs and commercial fintech services. These businesses usually lack the documentation required to open mobile wallets or link them to formal credit facilities, effectively excluding them from the mobile finance ecosystem (Yeboah et al., 2021). Ironically, these are often the businesses that stand to benefit the most from mobile banking, given their lack of access to traditional banking services.

Infrastructure limitations compound these challenges. Poor mobile network coverage, unreliable electricity supply, and low smartphone penetration remain significant barriers, particularly in remote areas. Without stable internet access and reliable power, even the most innovative mobile banking solutions are rendered ineffective (Alemayehu & Olayemi, 2021). For SMEs operating in such environments, reliance on cash transactions remains the default, regardless of the potential benefits of digital alternatives.

To address these challenges, multifaceted and inclusive policy responses are essential. Governments, fintech companies, and development agencies must invest in digital capacity-building programs targeted at SMEs, especially those led by women and operating in underserved regions. Additionally, policy harmonization across telecom and banking sectors is needed to promote interoperability, ensure consumer protection, and standardize security protocols. Providing incentives for mobile network expansion and reducing the cost of digital devices can also improve infrastructure and access.

In sum, while mobile banking holds transformative potential for SME growth and financial inclusion in SSA, these benefits will remain unevenly distributed unless structural and systemic barriers are addressed. Bridging the digital divide, building regulatory trust, and promoting inclusive innovation are essential to unlock the full potential of fintech for all SME segments in the region.

III. METHODOLOGY

3.1 RESEARCH DESIGN

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This study adopts a **quantitative research design** complemented by explanatory and correlational approaches. The quantitative strategy is appropriate for examining the impact of mobile banking on SME growth by analyzing measurable variables such as access to mobile financial services, loan uptake, savings, and enterprise expansion (Asiedu & Akomea-Frimpong, 2021). The explanatory component enables the identification of causal relationships between mobile banking usage and SME performance, while the correlational method is useful for understanding the strength and direction of these relationships. The design allows for hypothesis testing and generalizability of findings across various SSA contexts (Bongomin et al., 2022).

3.2 POPULATION AND SAMPLING TECHNIQUE

The target population consists of **owners and managers of SMEs** operating within urban and semiurban areas across selected Sub-Saharan African countries: Nigeria, Ghana, and Kenya. These countries were selected for their diverse mobile banking ecosystems and SME densities. According to the World Bank (2023), these three nations collectively account for a significant portion of mobile banking users in SSA and have documented variations in financial inclusion indices.

A multi-stage sampling technique was employed. First, purposive sampling identified regions with high SME and mobile money penetration (e.g., Lagos, Nairobi, and Accra). Then, stratified random sampling ensured representation across different SME sectors (retail, manufacturing, agriculture, and services). Finally, random sampling was applied to select respondents from each stratum. A total sample size of 400 SMEs was targeted, consistent with previous studies recommending a minimum of 200 respondents for robust regression analyses (Yeboah et al., 2021).

3.3 DATA COLLECTION METHODS

Primary data were collected using a **structured questionnaire** administered both physically and digitally (via Google Forms and WhatsApp platforms). The questionnaire was divided into five sections: (1) demographic and business characteristics, (2) access to mobile banking services, (3) frequency and type of mobile banking usage, (4) business performance indicators (e.g., revenue growth, employment, access to credit), and (5) perceived barriers to mobile banking adoption. The instrument was pilot-tested with 30 SME owners to ensure clarity, reliability, and content validity (Osei-Assibey, 2021). Reliability was confirmed with a **Cronbach's alpha** score of 0.83.

Secondary data on SME performance trends and mobile money penetration rates were sourced from the Central Banks of Nigeria, Kenya, and Ghana, as well as fintech reports from the GSM Association (GSMA, 2022).

3.4 METHOD OF DATA ANALYSIS

Quantitative data were analyzed using **descriptive and inferential statistical techniques** via SPSS (v26) and STATA (v15). Descriptive statistics such as frequencies, percentages, means, and standard deviations were used to summarize demographic data and mobile banking usage patterns. Inferential analysis included **multiple linear regression** and **logistic regression** to assess the relationship between mobile banking variables (independent) and SME growth indicators (dependent), controlling for firm age, size, and sector. The regression model is specified as:

SME_Growth =
$$\beta_0$$
 + β_1 (MobileAccess) + β_2 (FrequencyUse) + β_3 (DigitalLoans) + β_4 (PaymentAdoption) +

Hypothesis testing was performed at a 95% confidence level, with significance established at p < 0.05. Correlation analysis was also used to identify potential multicollinearity among predictor variables. Additionally, **robustness checks** were conducted using country-specific sub-samples to examine heterogeneity across national contexts (Asongu & Odhiambo, 2020).

3.5 ETHICAL CONSIDERATIONS

The study adhered to ethical research standards by ensuring **voluntary participation**, **informed consent**, and **anonymity** of responses. Ethical clearance was obtained from the institutional research ethics committee. Respondents were assured that their responses would be used strictly for academic purposes and would not be shared with third parties. All data were securely stored in password-protected digital systems.

IV. DATA ANALYSIS AND RESULTS

4.1 RESPONSE RATE AND DATA QUALITY

Out of 400 questionnaires distributed across Nigeria, Ghana, and Kenya, a total of **356 valid responses** were returned, representing an **89% response rate**. The high response rate is attributed to digital dissemination via WhatsApp and email, combined with face-to-face administration in business clusters.

After data screening, Cronbach's alpha was 0.83, indicating high internal consistency and reliability of the instrument. No significant outliers or missing data were found after cleaning, and all variables met the assumptions for regression analysis.

4.2 DESCRIPTIVE STATISTICS

Demographic and operational profiles of SMEs are summarized in Table 1.

Table 1: Respondent Demographics and Business Characteristics (n=356)

Variable	Category	Frequenc	Percentage
		y	(%)
Country	Nigeria	132	37.1
	Ghana	114	32.0
	Kenya	110	30.9
Gender of	Male	214	60.1
Owner			
	Female	142	39.9
Business Sector	Retail	145	40.7
	Services	112	31.5
	Manufacturin	67	18.8
	g		
	Agriculture	32	9.0
Age of Business	<2 years	75	21.1
	2–5 years	188	52.8
	>5 years	93	26.1

4.3 MOBILE BANKING USAGE PATTERNS

The results show that **88% of SMEs** had access to mobile banking platforms such as M-Pesa, Paga, MTN Mobile Money, and Opay. Among users, **74% used the platforms daily or weekly**, and **61% used mobile banking for both payments and savings**.

Table 2: Mobile Banking Usage Among SMEs

Usage Indicator	Yes	No
	(%)	(%)
Use mobile banking for business	88.2	11.8
Use digital loans from mobile banks	53.4	46.6
Save business income on mobile wallet	61.3	38.7
Use mobile banking for customer	76.7	23.3
payment		

4.4 INFERENTIAL ANALYSIS

4.4.1 Correlation Analysis

Pearson correlation coefficients reveal strong, positive relationships between mobile banking usage and SME growth indicators. The highest correlation is between mobile-based loan access and SME revenue growth (r = 0.67, p < 0.01).

4.4.2 Regression Analysis

Multiple linear regression was conducted to evaluate the impact of mobile banking on SME growth. The model explains **58.3% of the variance** in SME growth ($R^2 = 0.583$, p < 0.01), indicating good model fit.

Table 3: Regression Results - Mobile Banking and SME Growth

Predictor Variable	β	Std.	t-	p-
	Coefficient	Error	Value	Value
Constant	1.027	0.314	3.27	0.001
Mobile Access (Yes/No)	0.371	0.062	5.98	0.000
Frequency of Use	0.281	0.054	5.20	0.000
Digital Loan Access	0.321	0.065	4.94	0.000
Mobile-based	0.234	0.059	3.97	0.000
Payments				

The regression analysis confirms that all mobile banking variables significantly predict SME growth. Digital loan access and frequency of mobile banking use are the strongest predictors, affirming their relevance in enhancing liquidity, transactional speed, and reinvestment.

4.5 COUNTRY-SPECIFIC TRENDS

Disaggregated data reveal that Kenya's SMEs show higher usage of mobile savings tools, while Nigerian SMEs dominate in mobile-based digital loans. Ghanaian SMEs reported the highest rate of customer mobile payment integration. These patterns reflect country-specific fintech ecosystems and regulatory conditions (GSMA, 2022).

4.6 BARRIERS TO MOBILE BANKING ADOPTION

Respondents identified several barriers, as presented in Table 4.

Table 4: Key Barriers to Mobile Banking Adoption

Barrier	Frequenc	Percentage	
	у	(%)	
Poor network infrastructure	182	51.1	
Lack of digital literacy	164	46.1	
Cybersecurity concerns	149	41.9	
Limited interoperability (bank-	123	34.6	
linking)			
Gender-based digital access gap	96	27.0	

These findings align with prior literature noting digital exclusion due to socio-economic and gender-based constraints (Adu et al., 2020; Bongomin, 2020).

4.7 SUMMARY OF KEY FINDINGS

- Mobile banking significantly enhances SME growth across revenue, access to finance, and operational efficiency.
- The most impactful services are digital loans and frequent usage.
- Constraints such as digital illiteracy, infrastructure, and security concerns remain substantial.
- Cross-country differences exist, with Kenya leading in mobile savings and Nigeria in loan uptake.

V. DISCUSSION OF FINDINGS

The findings of this study reveal a strong, statistically significant relationship between mobile banking usage and SME growth across three Sub-Saharan African (SSA) countries—Nigeria, Ghana, and Kenya. This chapter discusses these results in relation to existing literature, socio-economic contexts, and theoretical perspectives such as the Diffusion of Innovation Theory and Financial Intermediation Theory.

The study reaffirms that mobile banking is not merely a transactional tool but a transformational enabler of financial inclusion for small and medium enterprises. The regression analysis showed that **mobile-based digital loans and frequency of platform usage** were the most powerful predictors of SME growth. These findings are consistent with those of Osei-Assibey (2021) and Bongomin (2020), who asserted that mobile platforms facilitate working capital access, enhance savings, and foster reinvestment. For SMEs traditionally excluded from formal banking, mobile banking reduces the dependency on collateral-based lending and provides alternative credit scoring through transactional data, thus validating the *Financial Intermediation Theory*, which posits that financial systems bridge the gap between savers and borrowers through efficient information flow and risk mitigation (Demirgüc-Kunt et al., 2022).

Furthermore, the high usage rates of mobile banking across all three countries support the tenets of *Diffusion of Innovation Theory*, which suggests that the adoption of a new technology depends on its perceived advantage, compatibility, and ease of use (Rogers, 2003; cited in Adu et al., 2020). SMEs in the study widely adopted mobile platforms due to their convenience, cost-effectiveness, and ubiquity, particularly in areas with low banking infrastructure. However, Kenya's comparatively higher usage of mobile savings platforms and Nigeria's stronger uptake of digital loans reveal how country-level fintech ecosystems and regulatory environments influence usage patterns. This heterogeneity underscores Jack and Suri's (2023) argument that fintech solutions must be contextualized within local market realities to maximize impact.

One critical contribution of this study is the demonstration of how mobile banking contributes to business formalization. SMEs using mobile banking reported better financial recordkeeping and increased customer trust, which are crucial for scaling and accessing broader markets. These findings are supported by Ejiogu and Eze (2022), who documented improved liquidity management and payment turnaround times among Nigerian SMEs. Moreover, mobile banking enables financial footprint creation, which is vital for integrating informal businesses into the formal economy—a goal aligned with many national development agendas in SSA.

However, the study also uncovered **substantial barriers** to mobile banking adoption, such as **digital illiteracy, poor network infrastructure, cybersecurity concerns, and gender-based constraints**. These findings echo those of Yeboah et al. (2021) and Adu et al. (2020), who highlighted how socio-economic inequalities and infrastructural deficiencies limit digital inclusion. Women-led SMEs, in particular, continue to face hurdles related to mobile phone ownership, confidence in digital technology, and restricted access to credit. These challenges point to the need for inclusive fintech policies that consider not just technology availability but also the digital capabilities and vulnerabilities of target users.

Interestingly, while access to mobile banking was high, the **frequency and depth of use** were more critical determinants of SME growth than mere access. This aligns with Jack and Suri's (2023) longitudinal study in Kenya, which found that long-term engagement with mobile money platforms had stronger effects on business investment and risk mitigation than sporadic use. Therefore, promoting mobile banking literacy and encouraging habitual use may be as important as technological deployment itself.

The role of **regulatory frameworks** also emerged implicitly as a moderating factor. Fragmented interoperability between banks and mobile money operators was cited as a major concern, indicating that fintech success is partly dependent on coordinated regulatory infrastructure. This is consistent with findings by the GSMA (2022), which emphasize the importance of harmonized regulations in enabling seamless fintech ecosystems across SSA.

Overall, the findings validate the conceptual framework presented in Chapter Two by illustrating how mobile banking—as a subset of fintech—serves as a bridge between financial institutions and underserved SMEs. This is achieved by reducing transaction costs, enhancing financial access, and promoting growth-oriented financial behavior. The dynamic relationship between mobile banking and SME performance supports the argument that **fintech can be a catalyst for inclusive economic development**, provided that access is complemented by capacity-building and infrastructure development.

In conclusion, this study extends current empirical and theoretical discussions on fintech and SME development by offering cross-country insights and robust statistical evidence from SSA. It emphasizes that while mobile banking offers substantial benefits for SME growth, the real potential lies in sustained usage, user-centric design, and regulatory coherence. The findings have clear implications for policymakers, financial institutions, and development practitioners seeking to harness fintech for inclusive growth in the region.

VI. CONCLUSION AND RECOMMENDATIONS

6.1 CONCLUSION

This study set out to evaluate the impact of mobile banking on the growth of Small and Medium Enterprises (SMEs) in Sub-Saharan Africa (SSA), focusing on Nigeria, Ghana, and Kenya. The research findings demonstrate that mobile banking significantly enhances SME growth by improving access to financial services, facilitating efficient financial management, and fostering business formalization. SMEs that utilized mobile banking platforms experienced improvements in liquidity, revenue growth, and access to both informal and formal credit, contributing to their ability to scale and increase employment opportunities.

The analysis confirmed that mobile banking serves as an effective tool for bridging the financial inclusion gap, particularly for businesses that are traditionally excluded from the formal banking sector due to lack of credit history, collateral, or formal business structures. The study further supports the notion that the frequency of mobile banking usage, rather than mere access, plays a critical role in achieving measurable business outcomes. These results align with existing literature, which highlights the role of mobile financial services in empowering underserved SMEs to overcome the barriers imposed by traditional banking systems.

However, the study also uncovered significant barriers that hinder the adoption and optimal usage of mobile banking among SMEs. These include digital illiteracy, inadequate network infrastructure, regulatory challenges, and gender-based digital exclusion. Despite the promise of mobile banking, these barriers must be addressed for fintech to reach its full potential in promoting SME growth and broader economic development in SSA.

6.2 RECOMMENDATIONS

Based on the findings, the study offers the following recommendations:

1. Enhancing Digital Literacy and Financial Education

To ensure that SMEs fully benefit from mobile banking services, it is essential to improve digital literacy across the region. Financial education programs targeting SME owners, particularly in rural and underserved areas, will help address the skills gap and encourage the adoption of digital tools. Governments, fintech companies, and non-governmental organizations (NGOs) should collaborate to provide training that highlights the benefits of mobile banking and guides entrepreneurs through the process of using these platforms effectively.

2. Improving Mobile Network Infrastructure

One of the primary challenges faced by SMEs in rural areas is poor mobile network infrastructure, which limits their ability to access and use mobile banking services reliably. Governments and private sector stakeholders must prioritize investments in telecommunications infrastructure, especially in rural and underserved regions. Enhanced network coverage will not only increase mobile banking adoption but also facilitate other digital services, such as e-commerce and digital health solutions, that can further support SME growth.

3. Promoting Gender-Inclusive Mobile Banking

Gender disparities in mobile phone ownership and digital literacy must be addressed to ensure that women-led SMEs can equally benefit from mobile banking services. Policymakers and fintech providers should design gender-sensitive programs that encourage female entrepreneurship. This could include targeted mobile banking products, female entrepreneur mentorship programs, and initiatives to increase women's access to digital devices and services. Ensuring equal access will help close the gender gap in entrepreneurship and contribute to inclusive economic growth.

4. Regulatory Harmonization and Interoperability

The study highlights the issue of fragmented mobile banking services due to the lack of interoperability between mobile money operators and traditional banks. A clear and unified regulatory framework is necessary to foster collaboration between financial institutions, mobile operators, and fintech firms. Regulatory bodies should ensure that mobile banking services are easily accessible across platforms and that transactions can flow seamlessly between digital wallets and bank accounts. Such measures will enhance the user experience and broaden access to financial services for SMEs.

5. Encouraging Long-Term Engagement with Mobile Banking

For mobile banking to have a lasting impact on SME growth, SMEs need to engage with mobile banking platforms consistently. This study emphasizes that **sustained usage** is critical for unlocking the full potential of mobile financial services. Fintech companies should design platforms that are user-friendly, offer value-added services (e.g., financial literacy, business advice), and provide incentives for long-term engagement. In addition, SMEs should be encouraged to use mobile banking tools for regular business operations, such as payroll, savings, and supply chain management, which will help stabilize their finances and improve their creditworthiness.

6. Government Support for Policy and Capacity Building

Governments in SSA must take a proactive role in supporting the integration of mobile banking into the SME sector. This could be done through policy frameworks that support the development of digital financial services, incentives for fintech firms to work with SMEs, and the establishment of public-private partnerships. Governments should also work to ensure that SMEs are aware of available digital financial products and services and are provided with adequate support to transition from informal to formal business operations.

6.3 LIMITATIONS AND AREAS FOR FUTURE RESEARCH

While this study provides valuable insights into the role of mobile banking in SME growth in SSA, it has some limitations. The study is geographically limited to Nigeria, Ghana, and Kenya, and the findings may not be fully applicable to all SSA countries with different socio-economic and infrastructural contexts. Future research could extend this study to other regions in SSA to explore country-specific challenges and opportunities.

Additionally, future studies could investigate the **longitudinal effects of mobile banking** on SME performance. While this study focused on current usage patterns and perceived benefits, examining the long-term impact of sustained engagement with mobile financial services would provide a more comprehensive understanding of the transformational potential of fintech in SME growth. Future research should also explore the impact of mobile banking on specific sectors, such as agriculture or manufacturing, to identify sector-specific challenges and opportunities for growth.

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