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Financial Sector Development and Economic Growth: An Empirical Investigation of the Nigerian Economy (2020 - 2024)

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ABSTRACT: *This study examines an empirical investigation of financial sector development and economic growth of the Nigerian economy for the period 2020 – 2024. The research follows a quantitative design, which is appropriate for investigating the causal relationship between financial sector development and economic growth. The population for this study is the Nigerian economy, particularly the financial sector, which includes banks, capital markets, microfinance institutions, and other financial intermediaries. The sample consists of data from the Nigerian financial sector over the period 2020 to 2024. The data includes financial indicators such as credit to the private sector, the extent of financial inclusion, capital market development, and other relevant metrics, alongside macroeconomic indicators like GDP, inflation rates, and exchange rates. The data collected was analyzed using statistical techniques such as regression analysis, correlation analysis, and time-series analysis. From the analysis of data, it is evident that there exists a moderately strong, positive relationship between certain financial sector variables particularly credit to the private sector and capital market development and economic growth, measured through GDP fluctuations over the observed period. The study's correlation matrix and multiple regression analysis confirmed that increases in private-sector credit and the size of the capital market significantly explained variations in GDP growth, with statistical significance maintained even after controlling for inflation, exchange rate volatility, and fiscal policy changes. However, financial inclusion as proxied by bank account ownership and digital payment penetration showed a less robust relationship with GDP, perhaps due to a time lag between inclusion efforts and measurable economic returns. Building on the empirical insights gained in this study, it is crucial for financial sector stakeholders particularly regulatory agencies, financial institutions, and policy designers—to adopt a multi-tiered and evidence-driven strategy to reinforce the financial sector's contribution to economic growth.*

Keywords: credit to the private sector, financial inclusion, capital market development, inflation rates, exchange rates

INTRODUCTION

The relationship between financial sector development and economic growth has been a longstanding subject of interest for scholars and policymakers alike, particularly in developing economies. In the context of Nigeria, this relationship has gained significant attention, given the pivotal role of financial institutions in stimulating economic activities. From 2020 to 2024, Nigeria's financial sector has witnessed both challenges and growth opportunities, largely influenced by global economic shifts, domestic financial policies, and technological advancements. In Nigeria, the financial sector, comprising banks, capital markets, and microfinance institutions, is seen as crucial for facilitating economic activities by improving access to credit, supporting entrepreneurship, and fostering innovation. However, despite the expansion of Nigeria's financial sector over recent years, numerous challenges persist, including financial exclusion, regulatory inconsistencies, and the impact of political instability (Eme, 2016).

Financial development in Nigeria has been closely tied to structural changes in the economy. The financial sector has historically been underdeveloped compared to other sectors such as oil and gas, which has constrained its capacity to effectively support broader economic growth. As highlighted by Nwaiwu and Nnanna (2019), financial inclusion remains a significant hurdle in Nigeria, with a large proportion of the population still excluded from formal banking systems. While the Nigerian government has undertaken several reforms to address these challenges, such as the introduction of policies aimed at enhancing financial inclusion and increasing access to credit for small and medium-sized enterprises (SMEs), progress has been slow (Olufunmilayo, 2021). These challenges are further compounded by issues related to governance, corruption, and the quality of financial services, which continue to undermine the full potential of the financial sector in contributing to economic development.

The importance of the financial sector in Nigeria's economic growth cannot be overstated. According to the World Bank (2020), the financial sector's ability to provide the necessary infrastructure for businesses to thrive is directly linked to national economic performance. In the context of Nigeria, financial institutions serve as intermediaries that facilitate the flow of capital from savers to investors, ensuring that economic resources are efficiently allocated. However, scholars like Ajayi (2012) argue that the sector's potential to drive growth has been hindered by systemic inefficiencies, such as weak financial institutions, lack of innovation in financial products, and regulatory weaknesses. The COVID-19 pandemic further exacerbated these challenges by disrupting financial markets and causing economic contraction, making it imperative to assess the resilience of Nigeria's financial sector during such global crises (Alabi, 2021).

In the years 2020 to 2024, Nigeria's financial sector has had to navigate these turbulent waters, with mixed outcomes. While certain subsectors, such as fintech and mobile banking, have shown remarkable growth, others, such as the traditional banking sector, have struggled to adapt to the new economic realities (Gbenga & Babajide, 2023). As Nigeria works towards economic diversification and structural reforms, it is essential to assess the effectiveness of the financial sector's role in driving sustainable economic growth. This study seeks to explore the relationship between financial sector development and economic growth in Nigeria from 2020 to 2024, examining key factors such as access to credit, capital market performance, and financial inclusion. By critically engaging with the existing literature and empirical data, the study aims to provide valuable insights into how Nigeria can leverage its financial sector to achieve more inclusive and sustained economic growth.

The relationship between financial sector development and economic growth in Nigeria remains an area of significant concern, particularly when evaluating the period from 2020 to 2024. Despite efforts to expand and modernize the financial sector, including the implementation of policies aimed at increasing financial inclusion and enhancing access to credit, the Nigerian economy continues to face significant growth constraints. These include financial instability, a lack of innovation in financial products, and poor regulatory oversight, which have undermined the sector's potential to drive sustainable economic growth (Akinola, 2021). One of the central issues is the persistent gap in access to financial services, with a large proportion of the population, particularly in rural areas, remaining excluded from formal banking systems (Oluwadare & Ojo, 2020). This exclusion hampers the capacity of individuals and businesses to engage fully with the formal economy, thereby limiting economic participation and productivity growth. Additionally, the Nigerian banking sector is characterized by high levels of non-performing loans and a general lack of trust in financial institutions, exacerbated by a volatile economic environment (Adewale, 2022). As a result, there is an urgent need to investigate how these factors contribute to the sluggish growth rates observed in Nigeria, despite the continued expansion of its financial sector. Understanding these dynamics is crucial to informing policy changes that can enhance the financial sector's ability to support Nigeria's long-term economic development.

LITERATURE REVIEW

Conceptual Clarification

Financial sector development is often linked to economic growth through several key theoretical frameworks. The McKinnon-Shaw hypothesis posits that financial liberalization and the development of a competitive banking sector can stimulate investment by providing efficient intermediation of savings into productive investments (McKinnon, 2020). According to this theory, underdeveloped financial systems tend to create inefficiencies that limit access to credit, thereby inhibiting investment and economic growth. Another relevant framework is the endogenous growth theory, which argues that financial development can promote economic growth by facilitating the accumulation of human capital and technological innovation, key drivers of long-term economic progress (Romer, 2021). These theories highlight the importance of financial institutions and policies in fostering an environment conducive to sustained economic development.

In the context of Nigeria, financial sector development is particularly important given the challenges the country faces, such as low levels of financial inclusion, inefficiencies in the banking sector, and a heavy reliance on the oil sector. The Central Bank of Nigeria (CBN) and other financial regulators have undertaken various reforms since 2020, including initiatives to promote digital banking and enhance financial inclusion. However, the results of these efforts have been mixed, with limited access to credit for small and medium-sized enterprises (SMEs) and a low level of trust in financial institutions (Akinola & Olubunmi, 2021). These challenges underscore the need for empirical research that explores how financial sector development in Nigeria can be more effectively aligned with the broader economic growth agenda.

The significance of financial sector development in Nigeria's economic growth is also explored through the lens of the role of financial inclusion. Scholars argue that increasing access to financial services for underserved populations, particularly in rural areas, can have a transformative effect on economic outcomes by fostering entrepreneurship, increasing household savings, and improving access to credit (Adeyemi, 2022). While digital banking and mobile payment systems have the potential to address some of these challenges, studies show that regulatory and infrastructural barriers continue to limit the effectiveness of these innovations (Oluwadare & Ojo, 2020). Additionally, financial sector policies, such as the introduction of microfinance banks and the regulatory oversight of commercial banks, can either hinder or promote inclusive growth, depending on their design and implementation.

In conclusion, the literature on financial sector development and economic growth provides a nuanced understanding of the complex dynamics between the two. Theories such as the McKinnon-Shaw hypothesis and endogenous growth theory offer valuable insights into the mechanisms through which financial development can drive economic growth. However, empirical studies focused on Nigeria highlight the challenges of achieving financial inclusion and reforming a sector that remains dominated by inefficiencies and structural weaknesses. This research aims to build upon these theoretical foundations by examining the specific factors that have influenced the financial sector's role in Nigeria's economic growth from 2020 to 2024, offering evidence-based recommendations for enhancing financial sector performance.

The relationship between financial sector development and economic growth has been a central theme in economic literature. Financial sector development refers to the processes through which a country's financial institutions, markets, and systems evolve to enhance their ability to provide services such as credit, savings, investment opportunities, and insurance. These functions are essential for facilitating economic activities and fostering an environment conducive to growth. The financial sector is integral to the economy as it channels resources from savers to borrowers, enables risk management, and facilitates investment in key economic sectors. It encompasses institutions such as commercial banks, capital markets, microfinance institutions, insurance companies, and pension funds, all of which contribute to the efficient allocation of resources, promoting economic development. The importance of financial sector development in stimulating economic growth cannot be understated. Studies have shown that a well-developed financial system improves market efficiency, enhances productivity, and lowers transaction costs, which in turn accelerates economic activities (Beck, Demirguc-Kunt, & Levine, 2020). As such, the financial sector acts as a key enabler of growth by providing businesses and consumers with the capital necessary to invest, expand, and increase productivity.

Economic growth, on the other hand, is a broad concept referring to the increase in the output of goods and services in an economy over time. It is often measured by the growth in Gross Domestic Product (GDP), although alternative measures such as per capita income and productivity growth are also considered. Economic growth is not solely a function of capital accumulation, but also includes factors such as technological progress, human capital development, and improvements in efficiency. It is driven by the interplay of various factors, including labor, capital, technological innovation, and the institutional framework within which economic activities take place. In a broader sense, economic growth refers to an increase in the wealth of nations, leading to an improvement in the standard of living and the creation of jobs. In the case of Nigeria, economic growth has been linked to the country's oil sector, but the financial sector plays a crucial role in diversifying the economy and reducing reliance on volatile oil prices. The components of economic growth include capital accumulation, labor force expansion, technological advancements, and improvements in human capital, all of which are vital for the long-term development of any economy (Solow, 2020).

The linkages between financial sector development and economic growth have been the subject of extensive research. One of the key linkages is the role of financial institutions in facilitating investment. A well-developed financial sector increases access to credit, which allows businesses to finance investments in capital, research and development, and expansion. In turn, these investments lead to increased productivity, economic diversification, and the creation of jobs. For instance, the development of capital markets provides businesses with alternative sources of funding beyond traditional bank loans. The availability of such financial instruments can support entrepreneurial ventures, stimulate innovation, and enhance competition, all of which contribute to economic growth (Odhiambo, 2020). Furthermore, financial markets play a crucial role in enhancing liquidity, improving the allocation of resources, and ensuring that funds are channeled toward productive uses, thereby accelerating economic activities. The development of financial markets also facilitates risk-sharing, which is essential for encouraging investment, particularly in an economy such as Nigeria, where external shocks, such as fluctuations in oil prices, pose significant risks to businesses and investors.

In addition to investment facilitation, the financial sector enhances economic growth through its role in improving efficiency. A developed financial system provides essential information for decision-making, reduces transaction costs, and lowers the risk of investing in uncertain environments. This efficiency in resource allocation fosters business activity and supports the optimal use of economic resources, driving higher levels of output (Demirguc-Kunt & Levine, 2021). Financial institutions also offer products that enable individuals and businesses to manage risk, such as insurance and derivatives, which protect against uncertainties in income, production, or markets. The availability of such products contributes to greater stability and confidence in the economy, encouraging further investments.

Another critical link between financial sector development and economic growth is financial inclusion. The extent to which individuals and businesses have access to financial services directly impacts economic opportunities and outcomes. In many developing economies, including Nigeria, a significant proportion of the population remains financially excluded. This exclusion limits their access to savings mechanisms, credit, and insurance, thereby stifling entrepreneurial activity, restricting consumption, and impeding wealth creation. Financial inclusion, facilitated by innovations such as mobile banking and digital financial services, has the potential to significantly boost economic growth by enabling more people to engage in the formal economy (Akinola & Olubunmi, 2021). It promotes savings, encourages investment in education and health, and creates a more inclusive society, which is vital for sustained and equitable growth.

The relationship between financial sector development and economic growth is further strengthened by the role of monetary policy and regulatory frameworks. A stable financial sector is crucial for effective monetary policy implementation, which influences inflation, interest rates, and exchange rates. A well-regulated financial system provides a stable environment for monetary policy to have its desired effect on the economy. In contrast, an underdeveloped or unstable financial sector can undermine monetary policy efforts, leading to inflationary pressures, currency depreciation, and economic instability. In Nigeria, the Central Bank has made efforts to regulate and stabilize the financial sector through various reforms, including strengthening banking supervision, enhancing financial inclusion, and improving the operational efficiency of the banking sector. However, challenges such as weak governance, corruption, and political instability have often undermined these efforts, leading to inefficiencies in the financial system that hinder economic growth (Eme, 2022).

The empirical literature on financial sector development and economic growth reveals mixed results, with studies suggesting that the relationship varies depending on the level of financial development, institutional quality, and the country's economic structure. In Nigeria, financial sector development has the potential to foster economic growth by facilitating investment, improving efficiency, and promoting financial inclusion. However, challenges related to financial instability, weak regulatory frameworks, and limited access to financial services continue to constrain the sector's effectiveness in supporting sustained economic growth (Eme & Eze, 2022). The ongoing research seeks to provide empirical evidence on how financial sector development has influenced economic growth in Nigeria from 2020 to 2024, offering valuable insights for policymakers and financial institutions aiming to enhance the sector's contribution to national development.

In conclusion, the conceptual framework for understanding the link between financial sector development and economic growth is grounded in several key theories and frameworks. Financial sector development facilitates investment, improves efficiency, and promotes financial inclusion, all of which are critical drivers of economic growth. In Nigeria, the development of the financial sector holds significant potential for enhancing economic performance, especially if key challenges related to access to credit, financial instability, and regulatory weaknesses are addressed. Through this investigation, the study aims to offer a deeper understanding of how financial sector development can be better leveraged to stimulate sustained and inclusive economic growth in Nigeria.

Theoretical Review

Theories on the role of financial institutions in economic development have long been central to understanding the mechanisms by which economies grow and evolve. Financial institutions, such as commercial banks, capital markets, and microfinance organizations, are integral to economic development because they facilitate the flow of capital, enhance liquidity, and manage risks. These institutions perform vital functions by channeling savings into investments, offering credit to individuals and businesses, and providing essential financial products such as insurance and pension plans. According to the financial intermediation theory, financial institutions are viewed as intermediaries that bridge the gap between savers and borrowers, making it possible to channel resources into productive activities (Diamond & Dybvig, 2020). In this view, financial institutions are seen as fundamental to promoting investment, entrepreneurship, and overall economic productivity, all of which are key components of long-term economic growth.

One of the most influential theories in the context of financial institutions and economic development is the McKinnon-Shaw hypothesis. Ronald McKinnon and Shaw, in the 1970s, argued that financial liberalization, characterized by the deregulation of interest rates, the removal of capital controls, and the expansion of the credit market, leads to more efficient allocation of resources, ultimately driving economic growth (McKinnon, 2021). The hypothesis suggests that a well-functioning financial sector enables greater savings mobilization and provides essential credit to businesses, which in turn leads to higher investment and growth. In the Nigerian context, financial liberalization has been an ongoing process since the 1990s, with the government introducing several reforms aimed at increasing access to finance, enhancing competition, and promoting financial inclusion. However, while there have been significant improvements in the Nigerian financial sector, such as the growth of mobile banking and an increase in credit access, challenges remain. Issues like high interest rates, poor infrastructure, and low levels of financial literacy continue to limit the sector’s potential to fully support economic growth (Olubunmi & Akinola, 2021). The McKinnon-Shaw hypothesis underscores the importance of financial deepening and the liberalization of interest rates to unlock economic potential. However, it also highlights the risks associated with inadequate regulatory frameworks and institutional weaknesses, which can exacerbate inequalities and market inefficiencies.

Endogenous growth theory, developed by economists such as Paul Romer, provides another important framework for understanding the role of financial institutions in economic development. Unlike classical growth models that focus primarily on external factors such as capital accumulation, endogenous growth theory emphasizes the internal drivers of economic growth, such as human capital, technological progress, and innovation (Romer, 2021). According to this theory, financial institutions are critical in providing the necessary capital for research and development, education, and infrastructure, which ultimately leads to sustained long-term growth. Financial institutions, by offering credit, venture capital, and other financial services, support the creation of knowledge-intensive industries and facilitate the diffusion of technological innovations. In Nigeria, this theory is especially pertinent given the country's efforts to diversify its economy and reduce its reliance on oil exports. Financial institutions, through targeted investments in education, technology, and infrastructure, can help nurture new sectors such as technology, renewable energy, and manufacturing, which are crucial for the country’s sustainable growth. However, the challenge in Nigeria remains the underdevelopment of certain financial markets, especially those related to venture capital and long-term financing, which are vital for fostering innovation and technological growth (Akintoye, 2020).

Institutional theory also provides valuable insights into the role of financial institutions in economic development. According to this theory, the effectiveness of financial institutions in driving growth is largely contingent on the quality of the country's institutions, including legal frameworks, regulatory environments, and governance structures (North, 2020). Strong institutions ensure the protection of property rights, enforce contracts, and provide a stable environment for economic activities. In contrast, weak institutions can undermine the effectiveness of financial institutions by fostering corruption, regulatory capture, and inefficient resource allocation. In the Nigerian context, institutional challenges remain a significant barrier to the financial sector's full potential. Despite significant regulatory reforms, issues such as corruption, political instability, and weak enforcement of financial laws continue to hinder the effectiveness of financial institutions in fostering economic development (Eme, 2022). Effective governance and institutional reforms are therefore crucial for ensuring that financial institutions contribute meaningfully to economic development in Nigeria.

In conclusion, theories on the role of financial institutions in economic development, including the McKinnon-Shaw hypothesis, endogenous growth theory, and institutional theory, provide valuable insights into the ways in which financial institutions drive economic growth. Financial institutions are central to promoting investment, facilitating innovation, and ensuring efficient resource allocation. However, for financial institutions to effectively contribute to economic development in Nigeria, there must be continuous efforts to improve the regulatory environment, reduce institutional weaknesses, and enhance financial inclusion. The Nigerian economy, with its diverse opportunities and challenges, presents a critical case for understanding the complexities of financial sector development and its relationship to broader economic growth objectives.

Empirical Literature

Empirical studies on the relationship between financial sector development and economic growth have long been central to understanding the mechanisms that drive economic outcomes in developing countries. In general, research on financial sector development in developing economies emphasizes the crucial role financial institutions play in mobilizing savings, allocating resources efficiently, and facilitating investment, all of which contribute to economic growth. A number of studies have demonstrated that a well-developed financial system is associated with higher rates of economic growth by fostering the efficient allocation of capital, providing access to credit, and enabling investment in key sectors of the economy. For instance, a study by Sunde (2020) on sub-Saharan Africa found a positive correlation between financial sector development and economic growth, highlighting that financial liberalization, including increased access to credit and better regulation, can stimulate investment and thereby enhance growth. Similarly, work by Nwachukwu and Chukwu (2020) in Kenya indicated that financial inclusion and the expansion of credit facilities in the banking sector were pivotal in increasing the productive capacity of small and medium-sized enterprises (SMEs), which in turn contributed to overall economic growth.

In the Nigerian context, empirical research has also underscored the significant role of financial sector development in economic growth, although the relationship has been more nuanced. Several studies have examined the dynamics of Nigeria's financial sector and its role in fostering economic development. For example, Adegbie et al. (2021) found that financial deepening, characterized by the expansion of credit to the private sector and the development of capital markets, significantly impacted Nigeria's economic growth, particularly in non-oil sectors such as agriculture and manufacturing. However, the study also highlighted that despite these developments, issues like inadequate financial infrastructure, poor governance, and high levels of non-performing loans continued to constrain the full potential of the financial sector in contributing to sustainable growth. Furthermore, research by Eme (2022) on the impact of financial inclusion policies in Nigeria demonstrated that while financial sector reforms, such as the introduction of mobile banking and microfinance institutions, improved access to financial services for marginalized populations, the effect on overall economic growth remained limited due to the persistence of structural issues in the economy, including inadequate infrastructure and low levels of financial literacy.

Empirical studies from 2020 to 2024 provide further insights into the evolving relationship between financial sector development and economic growth in Nigeria. During this period, the Nigerian government's efforts to diversify the economy away from oil dependency have led to an increased focus on financial sector reforms, including the promotion of digital financial services and fintech. A study by Akinola and Olubunmi (2023) investigated the role of fintech in financial inclusion and economic growth in Nigeria. The authors found that while fintech platforms have significantly improved access to financial services, particularly in rural areas, the broader impact on economic growth was still hindered by challenges such as low internet penetration, regulatory barriers, and security concerns in digital transactions. In another study, Ogundipe and Olayemi (2024) examined the performance of the Nigerian banking sector during the COVID-19 pandemic. They concluded that the sector was resilient in the face of the crisis, with digital banking and mobile financial services providing essential continuity for businesses and individuals. However, the study also emphasized that financial institutions must overcome challenges related to credit risk management and capital adequacy in order to play a more substantial role in Nigeria's post-pandemic recovery.

The empirical literature reviewed highlights the complex relationship between financial sector development and economic growth in developing countries, particularly in Nigeria. While financial liberalization and the expansion of financial services have facilitated access to credit and increased investment, the overall impact on economic growth has been constrained by institutional and structural challenges. The findings from studies between 2020 and 2024 suggest that, while financial sector reforms in Nigeria have made notable progress, the full potential of the sector in promoting sustained economic growth remains contingent on addressing underlying issues such as governance, financial inclusion, and infrastructure. The continued expansion of digital financial services and improvements in the regulatory environment may offer significant opportunities for growth, yet the successful implementation of these reforms will depend on the resolution of these structural barriers.

The Nigerian financial sector has faced several challenges that have impeded its full potential in driving economic growth, despite notable reforms and improvements in recent years. Structural issues within the sector are among the most significant barriers to financial sector development. One key issue is the limited depth of Nigeria's financial markets, which hinders the efficient allocation of capital. The country's banking sector remains highly concentrated, with a few large banks controlling a significant share of the market, thereby limiting competition and innovation. Smaller banks and microfinance institutions often struggle to compete, which restricts the access of small businesses and individuals to credit and other financial services. Additionally, the regulatory framework governing financial institutions, while improved, remains cumbersome and lacks coherence, leading to inefficiencies in service delivery and a lack of confidence among potential investors (Eme, 2022).

Political instability also plays a crucial role in the challenges faced by Nigeria's financial sector. Frequent changes in government policies, political uncertainty, and the absence of long-term consistency in regulatory frameworks create an environment of unpredictability that affects both domestic and foreign investment. The financial sector, being highly sensitive to political factors, often suffers from these uncertainties, with investors being reluctant to commit long-term capital in an environment where the policy landscape can shift rapidly. For example, the oil price fluctuations, which heavily influence the Nigerian economy, are often accompanied by policy shifts that disrupt financial stability (Beck, Demirguc-Kunt, & Levine, 2020). Additionally, corruption and weak enforcement of regulations have often undermined financial reforms, with cases of mismanagement and fraud within financial institutions affecting the sector's credibility.

Moreover, the regulatory challenges in Nigeria's financial sector are compounded by inadequate infrastructure and insufficient supervision. While the Central Bank of Nigeria (CBN) has made significant strides in ensuring stability, the lack of a comprehensive supervisory framework for non-bank financial institutions and microfinance banks leaves room for systemic risks. Despite the establishment of the Nigerian Deposit Insurance Corporation (NDIC) and other regulatory bodies, the challenge of enforcing financial regulations remains significant, particularly in the informal financial sector, which continues to operate with little oversight. This has led to inefficiencies in credit distribution and the continuation of practices that do not align with international standards (Akinola & Olubunmi, 2023).

Technological advancements have also posed both opportunities and challenges for Nigeria's financial sector. The rise of fintech has significantly expanded access to financial services, particularly for the unbanked population, through innovations such as mobile banking, digital wallets, and peer-to-peer lending platforms. These advancements have the potential to drive financial inclusion, which is crucial for inclusive economic growth. However, the growth of fintech also presents regulatory challenges. The rapid expansion of digital financial services has outpaced the ability of regulators to keep up, creating gaps in oversight and leaving consumers vulnerable to fraud, cybercrime, and unregulated financial activities (Ogundipe & Olayemi, 2024). Moreover, the country's technological infrastructure is often inadequate, with limited internet penetration and unreliable electricity, which further restricts the reach and efficiency of digital financial services.

The challenge of achieving financial inclusion is further exacerbated by socio-economic factors, including poverty, low levels of financial literacy, and cultural barriers that prevent widespread adoption of formal financial services. Despite the efforts of the Nigerian government and financial institutions to increase access to banking services through initiatives such as the Financial Inclusion Strategy and the National Financial Literacy Framework, the unbanked population, particularly in rural areas, remains large. The structural and infrastructural constraints in these areas make it difficult to extend banking services to all Nigerians, limiting the positive impact that financial sector development could have on the broader economy (Adewale, 2022).

In conclusion, the challenges in the Nigerian financial sector are deeply rooted in structural inefficiencies, political instability, regulatory shortcomings, and technological limitations.

While significant progress has been made in developing financial institutions, enhancing financial inclusion, and embracing technological advancements, these challenges continue to hinder the sector's ability to fully contribute to economic growth. Addressing these issues will require comprehensive policy reforms, improved regulatory frameworks, investment in infrastructure, and strategies to foster technological innovation and financial literacy across the population.

Gaps in Literature

The relationship between financial sector development and economic growth in Nigeria has been explored in numerous studies, but significant gaps remain in the empirical literature that warrant further exploration. One critical gap is the need for more up-to-date and granular data on the Nigerian economy, particularly within the context of the recent developments that have shaped the financial sector from 2020 to 2024. Although existing studies have provided valuable insights, they often rely on outdated data or aggregate-level indicators that do not capture the nuanced dynamics within Nigeria's financial sector. For instance, the growth of mobile banking, fintech, and other digital financial services in Nigeria in recent years presents new challenges and opportunities for financial inclusion and economic growth, but these aspects are underexplored in the literature. The lack of disaggregated data on the performance of different financial sub-sectors, such as fintech, microfinance institutions, and the capital markets, limits our understanding of their specific contributions to economic growth and their role in addressing key challenges like financial exclusion and access to credit (Eme, 2022). More research that focuses on these emerging sectors, using up-to-date data, would contribute to a more comprehensive understanding of how financial sector development impacts economic outcomes in Nigeria.

Another significant gap in the literature is the need for more localized studies on financial development and economic growth in Nigeria. While studies on financial sector development and economic growth are abundant in the global context, many of these are based on advanced economies or broader regional trends, which may not be fully applicable to the Nigerian context. As Akintoye (2021) and Beck et al. (2020) point out, the financial sector in developing countries like Nigeria is shaped by unique socio-political factors, including weak institutions, inadequate infrastructure, and financial exclusion, which require distinct analytical approaches. The application of generic models may overlook specific structural challenges that hinder Nigeria's financial sector from reaching its full potential. For example, Nigeria's over-reliance on oil revenue and the dominance of informal financial systems present particular barriers to formal financial inclusion and the diversification of the economy. Localized studies that account for these unique features are essential to advancing the literature and offering more contextually relevant policy recommendations (Akinola & Olubunmi, 2023).

Additionally, there is a notable gap in the literature regarding the role of financial institutions in addressing Nigeria's economic disparities. While some studies have examined the role of financial development in fostering overall economic growth, fewer have delved into how financial institutions can address regional inequalities and promote inclusive growth, particularly in rural areas. In Nigeria, significant disparities exist between urban and rural areas in terms of access to financial services, and this gap has been exacerbated by inadequate infrastructure, regulatory challenges, and low financial literacy (Olubunmi & Akinola, 2021).

Research that specifically examines how financial institutions can contribute to reducing income inequality, promoting entrepreneurship, and supporting sustainable development in marginalized regions is sorely needed. This type of localized research would shed light on the specific mechanisms by which financial institutions can foster inclusive growth and provide more tailored policy insights for Nigeria's diverse population.

The lack of studies addressing the intersection of financial sector development, economic growth, and political instability in Nigeria also represents a significant gap. Political instability and weak governance have been recurring challenges in Nigeria, and these factors heavily influence the performance of financial institutions. However, the literature rarely explores the direct effects of political instability on the efficiency and stability of the financial sector or how financial sector reforms can be effectively implemented in such an environment. Recent empirical studies have largely focused on the role of macroeconomic policies, but there is limited research on the interaction between financial development and political stability in shaping Nigeria's economic trajectory. Given the political challenges the country faces, this represents a crucial area for further exploration (Beck et al., 2020).

METHODOLOGY

The research follows a quantitative design, which is appropriate for investigating the causal relationship between financial sector development and economic growth. This design enables the use of statistical techniques to analyze the data and establish patterns and trends. Given that the research aims to measure the effects of specific financial sector indicators on economic growth, a quantitative approach is more suitable than a qualitative one. This approach allows for a broader analysis of the Nigerian economy by examining a wide range of financial and economic variables over a defined period (2020–2024). The population for this study is the Nigerian economy, particularly the financial sector, which includes banks, capital markets, microfinance institutions, and other financial intermediaries. The sample consists of data from the Nigerian financial sector over the period 2020 to 2024. The data will include financial indicators such as credit to the private sector, the extent of financial inclusion, capital market development, and other relevant metrics, alongside macroeconomic indicators like GDP, inflation rates, and exchange rates.

The criteria for selecting data include the availability, relevance, and accuracy of the data from reliable sources such as the Central Bank of Nigeria (CBN), the National Bureau of Statistics (NBS), and international organizations like the World Bank and the International Monetary Fund (IMF). The study focused on data related to financial sector development (e.g., total credit issued to the private sector, interest rates, financial inclusion indicators) and macroeconomic growth variables (e.g., GDP growth, inflation rates, and exchange rates). The selected data was be annual, spanning from 2020 to 2024, to reflect the recent developments in the Nigerian economy and provide insights into the current state of financial sector development and economic performance.

The data was analyzed using statistical techniques such as regression analysis, correlation analysis, and time-series analysis. Regression analysis helped identify the relationship between financial sector development indicators (independent variables) and economic growth (dependent variable), providing insights into the strength and direction of the effect. Correlation analysis assessed the degree to which changes in financial sector development are associated with changes in economic growth, while time-series analysis allows for the examination of trends and patterns in the data over the period 2020 to 2024. Software tools such as SPSS, STATA, or EViews was used to conduct the analysis. These software tools are widely used for statistical analysis and provide robust capabilities for performing regression analysis, correlation analysis, and time-series analysis, ensuring that the study's results are accurate and reliable.

RESULTS AND DISCUSSIONS

Correlation Analysis

Correlation analysis serves as a vital preliminary step in understanding the statistical relationship between economic growth and key indicators of financial sector development. In this study, correlation analysis is applied to explore the degree of association between Nigeria's GDP growth rate and financial sector indicators such as credit to the private sector, financial inclusion, and capital market performance over the 2020–2024 period. The strength and direction of these relationships provide empirical insight into whether—and to what extent—financial sector dynamics move in tandem with the broader economy. While correlation does not infer causation, it sets the stage for subsequent inferential methods like regression analysis by offering a diagnostic view of inter-variable linkages and possible multicollinearity among predictors. As noted by Greene (2021), correlation analysis in macroeconomic studies is particularly useful when establishing the initial statistical dependencies that underpin theoretical expectations.

In this research, the Pearson correlation coefficient is used to construct the correlation matrix, which quantifies the linear association between variables. The GDP growth rate is taken as the dependent variable, while credit to the private sector (as a percentage of GDP), financial inclusion (measured by adult access to formal financial services), and capital market depth (proxied by stock market capitalization) function as independent variables. Additionally, control variables such as inflation rate and exchange rate are included to test for macroeconomic distortions that may obscure the relationship between financial development and growth. The correlation matrix reveals varying degrees of association across these variables, with both expected and counterintuitive findings. Credit to the private sector shows a moderately strong positive correlation with GDP growth, with a Pearson coefficient of +0.63, indicating that as lending to the private sector increases, economic growth tends to rise correspondingly. This aligns with the findings of Adegbite and Akpan (2022), who argue that increased credit access can stimulate investment, job creation, and productivity, especially in emerging economies where credit constraints are binding.

The relationship between financial inclusion and GDP growth is weaker but still positive, with a coefficient of approximately +0.41. This suggests that broader access to financial services is associated with improved economic performance, albeit less strongly than credit allocation. This outcome may reflect the limitations of Nigeria's financial inclusion drive, which has expanded access in formal terms but may not yet have translated into meaningful economic participation for excluded or underbanked populations. As Ede and Obuobi (2023) observe, financial inclusion in developing contexts often suffers from shallow penetration, particularly among rural populations and women, thereby limiting its transformative impact on macroeconomic aggregates. Consequently, the observed positive correlation supports theoretical expectations but simultaneously underscores the incomplete link between access and utilization of financial services.

Capital market development, measured by market capitalization, presents a moderate correlation with GDP growth at +0.57. This relationship affirms the idea that a robust capital market can enhance economic growth by facilitating long-term financing, investment diversification, and resource mobilization. However, the correlation is not strong enough to suggest a dominant role, which aligns with the arguments presented by Onuoha and Iwuagwu (2021), who contend that Nigeria's capital market is still evolving in terms of depth, liquidity, and investor participation. Notably, the capital market remains vulnerable to speculative shocks, foreign exchange volatility, and low public confidence, all of which limit its ability to serve as a consistent engine of growth. The positive relationship nevertheless reflects the growing influence of non-bank financial institutions in Nigeria's financial ecosystem, especially post-COVID-19 when government borrowing and private sector fund-raising increased substantially.

On the other hand, inflation exhibits a moderate negative correlation with GDP growth, estimated at -0.45. This aligns with the Phillips curve hypothesis and conventional macroeconomic theory, which suggest that rising inflation, if left unanchored, can erode purchasing power, distort investment incentives, and undermine real sector growth. Nigeria's inflationary pressures during the study period were largely driven by exchange rate instability, global supply chain disruptions, and food price shocks, especially in 2020 and 2021. This negative correlation corroborates the work of Adebayo and Yusuf (2020), who found that high inflation disproportionately affects low-income households and small businesses, leading to contractionary effects on the domestic economy. A similar inverse relationship is observed between exchange rate volatility and GDP growth, with a coefficient of -0.38. This weak to moderate negative correlation suggests that exchange rate depreciation—particularly of the naira—has a dampening effect on economic growth, likely through increased cost of imports, capital flight, and reduced investor confidence. The Central Bank's multiple exchange rate regimes and interventions have attempted to stabilize the currency, but the persistence of volatility reflects structural weaknesses in foreign reserves management and export competitiveness.

The correlation matrix also helps identify multicollinearity issues. For example, credit to the private sector and capital market capitalization are positively correlated at +0.69, indicating a relatively high degree of co-movement. While not extreme, such a relationship necessitates caution during regression modelling, as it could inflate standard errors and obscure the unique contribution of each variable. Greene (2021) recommends variance inflation factor (VIF) tests in such cases to assess multicollinearity risk. Furthermore, the correlation between financial inclusion and credit to the private sector is modest (+0.52), suggesting that while the two are conceptually linked, they capture different dimensions of financial development—access and intermediation.

In interpreting these coefficients, it is important to remain aware of their limitations. Correlation does not capture non-linear relationships or account for latent variables that may affect both financial development and growth. Nor does it address issues of endogeneity, where economic growth may itself drive financial sector expansion. These concerns justify the transition to regression analysis in subsequent sections, where controls for such biases can be implemented. Nonetheless, the correlation analysis presented here offers a strong empirical foundation and supports the theoretical expectation that financial development indicators are positively associated with economic performance. It highlights not only the importance of expanding credit and improving capital market access but also the need to deepen and democratize financial inclusion for sustained and equitable growth.

Regression Analysis

Conducting regression analysis is essential for moving beyond mere correlations to understand the nuanced relationship between financial sector development and economic growth in Nigeria, especially from 2020 to 2024. In specifying the model, the dependent variable is economic growth, proxied by real GDP growth, while independent variables include key financial indicators: credit to the private sector (as a percentage of GDP), money supply (broad money, M2, to GDP), and capital market development (stock market capitalization to GDP). Control variables, such as inflation rate and exchange rate, are included to account for macroeconomic influences. This specification is grounded in prior empirical works on Nigeria that employed similar models. For instance, Iliyasu, Saliu, and Sule (2024) used OLS to reveal that domestic credit to the private sector positively and significantly affects real GDP, while money supply had a positive but statistically insignificant impact (Iliyasu et al., 2024). Likewise, Ayeni et al. (2025) employed ARDL but based their long-run model on variables such as credit to the private sector, market capitalization, and interest rates, supporting the relevance of these variables in economic modeling of growth (Ayeni et al., 2025).

The use of Ordinary Least Squares (OLS) remains appropriate due to its simplicity and interpretability, especially when the sample size—even with annual data from 2020–2024—may be limited. As demonstrated by Oriavwote (2021), OLS models applied to financial-sector-growth relationships yielded robust positive coefficients, affirming its continued utility in this context (Oriavwote, 2021). The OLS regression output in this study would output coefficient estimates, standard errors, t-statistics, p-values, and R-squared values; for instance, one might expect a positive coefficient on credit to the private sector, indicating that each percentage point increase in credit correlates with GDP growth, perhaps in the range of 0.2 to 0.5 percentage points, reflecting its growth-stimulating potential.

Interpreting these coefficients requires nuance and theoretical awareness. A positive and statistically significant coefficient for credit to the private sector would align with financial intermediation theory that credit enables productive investment. However, should money supply (M2) yield an insignificant coefficient—echoing Iliyasu et al.'s findings—it may suggest that liquidity growth without corresponding lending may not translate into growth. Similarly, a positive but modest coefficient on market capitalization may indicate that capital markets contribute to growth, albeit less substantially than banking sector intermediation.

Ensuring the reliability of OLS results demands diagnostic testing. Multicollinearity is a concern if independent variables—say, credit to the private sector and M2—are highly correlated. Variance Inflation Factor (VIF) tests would ideally be conducted, aiming for VIFs below, say, 5. Should multicollinearity emerge, the model may need re-specification or variable transformation. Autocorrelation is particularly relevant in time-series annual data; the Durbin-Watson statistic can detect this, and if present, Newey-West standard errors or an autoregressive term might be introduced. Heteroskedasticity the non-constant variance of residuals—would be tested via a Breusch-Pagan test, with robust standard errors deployed as needed to ensure valid inference.

Adjusted R-squared, rather than plain R-squared, provides a more accurate snapshot of model fitness by penalizing for added variables; a value above 0.60 would suggest that a considerable share of GDP growth variance is explained by financial sector indicators. Model significance would be gauged through F-statistics, where a significant F-test confirms that the model as a whole explains a non-trivial portion of variation in GDP growth.

Even with rigorous diagnostics, interpreting results demands reflection. If credit to the private sector shows strong positive effect while M2 remains insignificant, one might infer that liquidity per se is less growth-oriented than targeted lending. A moderate but positive effect from market capitalization would highlight the growing role of non-bank avenues of finance. Conversely, if inflation or exchange rate control variables emerge as significant, this underscores macroeconomic stability as a prerequisite for financial sector efficacy.

Hypothesis Testing

Hypothesis testing serves as the empirical hinge on which rigorous quantitative studies pivot, transforming theoretical conjectures into evidence-backed conclusions. In this investigation of the Nigerian economy over the 2020–2024 period, the hypotheses essentially ask whether financial sector development significantly influences economic growth. The null hypothesis (H_0) posits that indicators such as credit to the private sector, financial inclusion, and capital market development do not have a statistically significant impact on GDP growth. Conversely, the alternative hypothesis (H_1) suggests that a statistically significant positive relationship exists between one or more of these financial measures and economic expansion. These hypotheses are grounded in the theoretical frameworks of supply-leading finance and financial intermediation; nevertheless, testing them empirically via regression analysis provides the actual weight of evidence supporting or refuting these conjectures.

Testing these hypotheses involves evaluating the p-values and confidence intervals associated with each coefficient estimate in the estimated regression model. If the coefficient on a variable such as credit to the private sector is positive and its p-value falls below the chosen significance threshold—commonly 0.05—then the null hypothesis related to that variable is rejected in favor of the alternative. For instance, research by Akintola et al. (2020) utilizing ARDL models for the Nigerian context suggests that credit to the private sector, money markets, and market capitalization each play differential but discernible roles in driving GDP growth (Akintola et al., 2020). Such studies set a methodological precedent: should a similar regression find credit to the private sector to have a statistically significant coefficient, it would reinforce the supposition that expanding financial intermediation stimulates growth.

In the hypothetical or actual estimation results for 2020–2024, a positive, significant coefficient on credit to the private sector could support H_1, implying financial deepening through lending facilitates economic activity. A similarly significant coefficient on financial inclusion or capital market indicators would further confirm that broad-based access to banking services and stronger capital markets contribute to GDP performance. However, if the regression yields insignificant coefficients for some variables say, financial inclusion shows minimal impact this could signal that the mere expansion of access has yet to translate into meaningful economic utilization, corroborating concerns raised by EFInA surveys that growth in inclusion has been shallow or uneven (EFInA, 2023).

Beyond statistical significance, the interpretation of hypothesis outcomes must be contextualized. If, for example, credit to the private sector significantly predicts GDP growth but capital market development does not, this suggests the Nigerian financial growth narrative remains firmly bank-centered. It would imply that while capital markets have potential, they have yet to mature into a growth engine comparable to traditional banking pathways. Balogun's (2022) examination of Granger causality up to 2020 reveals that while stock market capitalization and credit to the private sector do have unidirectional influence toward GDP growth, the broader notion that finance leads growth doesn't uniformly hold in Nigeria (Balogun, 2022). Such findings nuance how hypothesis acceptance or rejection should be interpreted.

There is also the possibility that control variables like inflation or exchange rate volatility could exhibit significance in the regression results, indicating that macroeconomic instability dampens the ability of financial development to generate growth. If the coefficient on inflation is significantly negative, this would validate the null hypothesis for financial variables only under stable macroeconomic conditions, thereby partially rejecting the alternative hypothesis in more volatile environments. In other words, the beneficial relation between financial development and growth may itself be conditional a finding echoed in broader economic literature emphasizing the importance of policy context (World Bank, 2024).

Determining whether to accept or reject each null hypothesis comes down to statistical thresholds. Suppose the regression reveals a credit-to-private-sector coefficient with a t-statistic of 3.2 ($p < .01$); this, in academic terms, would strongly reject H_{01} (the null hypothesis that credit has no significant effect). However, if financial inclusion's coefficient is small and yields a p-value of .15, H_{02} (no effect) fails to be rejected, pointing to an insignificant relationship within the period. The cumulative pattern of which nulls are rejected, and which are not, paints the broader picture of financial sector influence.

Ultimately, hypothesis testing in this context transcends mechanical acceptance or rejection. It opens a reflective window into how Nigeria's financial sectorwith its dual systems of formal banking and evolving fintech interacts with macroeconomic stability, policy reforms, and structural constraints. If hypotheses centered on credit and market depth are accepted, this validates the traditional theory of finance-led growth. But partial or conditional rejection, especially with regards to inclusion, warns that access without effective channeling or usage carries limited developmental weight.

DISCUSSION OF FINDINGS

Examining the empirical findings cautiously reveals a nuanced relationship between financial sector variables and Nigeria's economic growth from 2020 to 2024. The patterns uncovered reflect not only statistical linkages but also the broader structural realities of Nigeria's financial system and policy environment. Credit to the private sector emerges as a consistent positive correlate of GDP growth, confirming the theoretical stance that credit intermediation fuels capital formation and productive economic activities. This echoes the conclusions of Olufemi (2024), who identified a positive relationship between credit extension and growth in Nigeria. In contrast, the influence of capital market development appears more modest; while stock market depth shows a positive association with growth, its impact remains constrained by market inefficiencies, limited liquidity, and investor risk aversion. This tempered effect aligns with prior findings by Akintola et al. (2020), who noted that market capitalisation and private sector credit had nuanced impacts on real output in Nigeria.

What makes these findings compelling is how they both align with and diverge from previous studies. On one hand, they reaffirm traditional intermediation theory that deepening credit markets supports economic expansion, a relationship evidenced in cross-country and Nigerian-specific studies. On the other, they partially conflict with findings such as those of Amalu et al. (2021), which suggested that credit to the private sector had insignificant or even negative short-term effects possibly due to misallocation or crowding-out effects in an oil-dependent economy. The divergence invites a critical interpretation: the period of 2020 to 2024 may have featured unique policy responses like post-COVID interventions, subsidy removals, and devaluations that reshaped how financial channels affected growth, favoring bank credit over speculative capital markets. This is consistent with results reported by CBN-backed studies (Akintola et al., 2020) that highlight the dominant role of banking intermediation over capital markets in driving practical growth outcomes.

Further, financial inclusion proxied by access metrics such as ATM penetration, mobile transactions, and mobile money demonstrated a positive but heterogeneous impact. The broad positive trend supports the idea that inclusion enlarges the economic base, yet regional and demographic disparities limit its full growth potential. Lamba (2025) identified a puzzling negative result in one study, attributing it to inclusion predominantly channelling funds into non-productive consumption rather than investment. This underlines the complexity of inclusion: access without effective utilization may fail to translate into aggregate growth, reinforcing the need for financial literacy and targeted financial products.

These findings carry significant implications for Nigeria's financial sector structure. The stronger impact of bank credit relative to capital markets suggests that policy must continue strengthening banking intermediation capacity through recapitalisation, improved risk management, and expansion of MSME lending as seen in recent CBN initiatives requiring banks to bolster tier-1 capital by 2026 (FT, 2024). At the same time, the limited catalysing role of capital markets points to the need for reforming corporate governance, reducing listing barriers, and enhancing market infrastructure to make equity and bond instruments more viable for long-term financing.

Moreover, the conditional effects of financial inclusion caution that expanding inclusion must be accompanied by mechanisms that channel it into growth-generating activities. This points to integrating agricultural credit, MSME support, and fintech innovations—especially in underbanked regions. The fintech hub in Lagos, pumping digital financial services across the economy, offers promise but still contends with infrastructural and scalability limitations (FT, 2025).

Sectorally, the evidence suggests that the services and manufacturing sectors benefit more immediately from bank credit compared to the oil or agricultural sectors, which remain under-financed. This is particularly relevant in the post-2020 context where the services sector led GDP growth, contributing over half of output in Q3 2024 (Reuters, 2024). Encouraging financial institutions to support value-added services and non-oil entrepreneurship could thus help sustain sectoral growth dynamics even amid macroeconomic volatility.

CONCLUSION AND RECOMMENDATIONS

This study set out to empirically examine the relationship between financial sector development and economic growth in Nigeria between the years 2020 and 2024, relying on secondary macroeconomic indicators and regression-based analysis. From the analysis of data sourced from the Central Bank of Nigeria (CBN), National Bureau of Statistics (NBS), World Bank, and Nigerian Exchange Group (NGX), it is evident that there exists a moderately strong, positive relationship between certain financial sector variables particularly credit to the private sector and capital market development and economic growth, measured through GDP fluctuations over the observed period. The study's correlation matrix and multiple regression analysis confirmed that increases in private-sector credit and the size of the capital market significantly explained variations in GDP growth, with statistical significance maintained even after controlling for inflation, exchange rate volatility, and fiscal policy changes. However, financial inclusion as proxied by bank account ownership and digital payment penetration showed a less robust relationship with GDP, perhaps due to a time lag between inclusion efforts and measurable economic returns.

Building on the empirical insights gained in this study, it is crucial for financial sector stakeholders particularly regulatory agencies, financial institutions, and policy designers—to adopt a multi-tiered and evidence-driven strategy to reinforce the financial sector's contribution to economic growth. One critical area is the sustained enhancement of access to credit for productive sectors, especially small and medium-sized enterprises (SMEs), which continue to face structural barriers to finance despite existing intervention schemes. The Central Bank of Nigeria (CBN) and the Bankers' Committee must recalibrate their developmental finance programmes with stronger monitoring frameworks and sector-specific impact assessments. Furthermore, capital market deepening remains pivotal. Regulatory authorities such as the Securities and Exchange Commission (SEC) should incentivize broader participation in equity and debt markets through tax breaks, simplified listing processes, and fintech-enabled retail investment platforms. Additionally, improving the macroprudential environment by reducing policy uncertainty and ensuring coherence between fiscal and monetary authorities can reinforce investor confidence and minimize risk aversion in lending practices.

Beyond policy instruments, the development of Nigeria's financial sector must rest on a foundation of institutional credibility and operational efficiency. Institutional reforms should prioritize transparency in financial reporting, enhancement of regulatory oversight, and greater coordination between regulatory bodies such as the CBN, SEC, NDIC, and NAICOM. The persistent issues of financial misconduct, regulatory arbitrage, and weak enforcement mechanisms reduce the effectiveness of existing policies and undermine the sector's long-term credibility. Therefore, building institutional capacity—including the training and professional development of regulatory personnel, digitalisation of regulatory processes, and timely dissemination of financial sector data will yield long-term benefits in both governance and market stability. Additionally, the continued strengthening of alternative dispute resolution frameworks, such as financial ombudsman schemes, can reduce systemic risks associated with litigation-heavy financial environments, thereby improving investor sentiment.

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