

Fintech Integration And The Transformation Of Asset Management In The Nigerian Digital Economy

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Abstract: The digital transformation of finance has led to the accelerated convergence of technology and investment management and how assets are analysed, allocated, and optimised. This study discusses the impact of financial technology (FinTech) integration in transforming the asset management industry with a focus on the digital economy in Nigeria. Drawing from the current empirical and theoretical evidence it studies the role of technologies including artificial intelligence, machine learning, blockchain and robo-advisory systems in redefining efficiency, transparency, and accessibility in the investment process. Using a mixed-method approach that combines secondary data analysis and conceptual review, the study identifies 3 major dimensions of transformation - Technological innovation, institutional adaptation, and regulatory evolution.

The findings show FinTech integration has aided in increasing operational efficiency, data-driven decision-making, and also the growth of financial inclusion via digital platforms. However, these gains in services are accompanied by emerging challenges such as the cybersecurity vulnerabilities, data privacy concerns as well as the gap in regulation, especially in the developing economies. The study emphasizes the importance of digital preparedness, regulatory agility and ethical governance of technology in sustainable integration of FinTech in asset management. The paper ultimately concludes that the FinTech is both the catalyst for modernization and the systemic risk and thereby there needs to be balanced policies and institutional strategies. It makes a series of recommendations to ensure digital transformation benefits the global financial system by ensuring that the regulators, asset managers and technology innovators work better together to ensure that financial system digital transformation achieves efficiency, inclusivity and long-term stability.

Keywords: FinTech, asset management, digital economy, financial innovation, technological integration, regulatory adaptation

I. Introduction

The world financial landscape is undergoing a remarkable transformation as a result of the rapid growth of financial technology (FinTech). One of the most visible areas of this transformation is the asset management industry where technology is transforming the way investments are analysed, executed, and delivered. In the past, the management of assets relied heavily on human judgement, manual analysis of data, and intermediaries based at a financial institution. Today, however, the integration of artificial intelligence (AI), big data, blockchain and automation has redefined how the industry works by bringing improved speed, accuracy, transparency and accessibility (Arner, Barberis, & Buckley, 2020; Puschmann, 2022; Olulu-Briggs, 2020; Olulu-Briggs & Fred-Horshall, 2023).

This revolutionization in management of assets represents a change from the classical management of decision-making based on humans to intelligent management that is based on data. FinTech innovations now enable asset managers to create algorithmic trading models, automate the process of rebalancing portfolios through the use of robo-advisors, and make use of predictive analytics for a better forecast and risk management. These developments have had not only to increase efficiency but democratisation of investing is providing everyday investors the access to advanced tools formerly reserved for large institutions. Moreover, with the emergence of decentralized finance (DeFi) and digital asset platforms, it has maximized the scope of investment

opportunities and transformed the structure of the financial markets (Lee & Shin, 2021). In the context of the digital economy, this transformation means much more than the adoption of new technology, however, it is a fundamental reorganisation of how financial institutions generate value, manage portfolios, and engage clients. Yet, while the positive effects of FinTech-driven innovation are universally recognised, its impact on asset management especially in emerging markets is rather unexplored. This study therefore aims to investigate the changing scenario of asset management as a result of FinTech adoption, with a significant attention on how it is influencing efficiency of operations, performance of investment, and client engagement.

1.2 Statement of the Problem

Despite the rising chatter around FinTech, there is still limited empirical evidence on the transformative power of FinTech in the asset management industry. Many companies in developing economies still are on traditional systems that have high transaction costs, poor data utilisation, and manual. These inefficiencies regularly end up limiting their capability of competing in a fast-digitizing financial environment.

Moreover, While FinTech offers immense promise of bringing in greater transparency, reducing costs and delivering better portfolio outcomes, transformation of asset management has not completely lived up to expectations. In practise, many firms especially in emerging markets are still heavily hindered by the integration of digital technologies in their operations. Issues such as data privacy issues, cyber security risks, lack of digital expertise and unclear regulatory environments continue to slow down the pace of true transformation (Chen, Wu, & Yang, 2021; Olulu-Briggs, 2021). As a result, a lot of the adoption that's achieved across the industry focuses on automating regular processes without important insights towards improving efficiency, governance, and trust for clients at a fundamental level. The critical question, therefore, is not simply whether Fin Tech has been adopted, but whether integration has actually improved firm performance, investment decision-making and the investor experience. In many instances, the potential of Fin Tech to transform asset management has been under-utilised to some extent, which represents a disconnect between technology improvement and significant and sustainable transformation.

Existing studies have mainly concentrated on FinTech adoption in banking and payment systems, leaving a research gap in knowledge about the changing impacts of technology on asset management operations and strategies. Addressing this gap is crucial to the academic and practitioner communities as they try to understand how technology can be used for competitiveness and sustainability in the digital economy.

1.3 Hypotheses

Based on the research objectives, the following hypotheses are proposed:

H₁: FinTech integration has a significant positive impact on the operational efficiency of asset management firms.

H₂: FinTech adoption significantly improves investment performance within the asset management industry.

H₃: FinTech integration positively influences client engagement and satisfaction in asset management.

H₄: Regulatory and technological challenges significantly moderate the relationship between FinTech adoption and asset management performance.

H₅: FinTech-driven transformation enhances the competitive advantage and sustainability of asset management firms in the digital economy.

II. Literature Review

2.1 Conceptual Framework

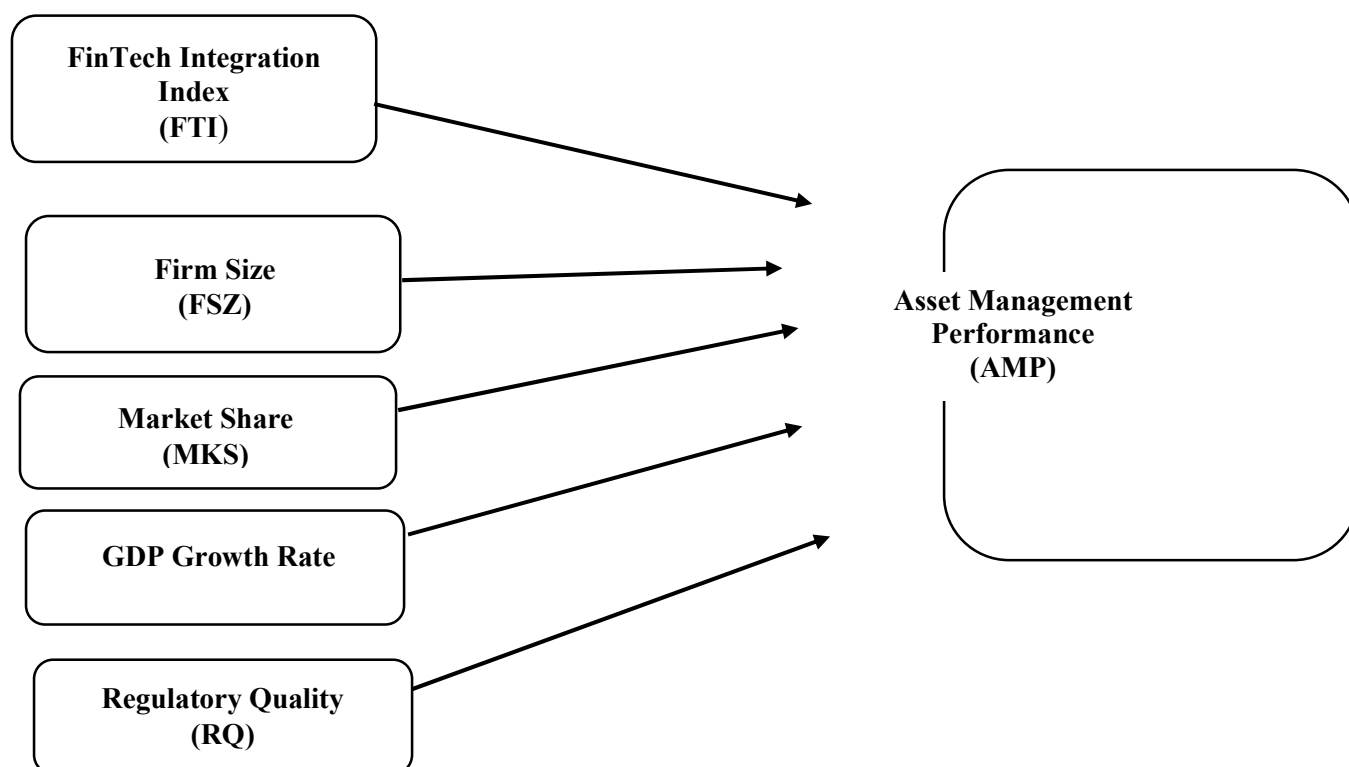
The collision of financial technology (FinTech) with asset management is one of the most important frontiers in the digital transformation of finance. FinTech broadly refers to the use of digital technologies such as blockchain technology, artificial intelligence (AI), machine learning (ML), cloud computing and data analytics to provide financial services in a more efficient and innovative manner (Arner, Barberis, & Buckley, 2020). In the context of asset management, such technologies are used for

automated and improved investment processes, risk assessment, and the optimization of investment portfolios. The traditional model of human centered decision making has to a large extent been supplemented or replaced by algorithmic intelligence, which processing massive masses of data real-time (Gomber, Koch, & Siering, 2022).

At the heart of the idea of FinTech driven asset management is digital intermediation, technology that is used to bridge the gap between investors and financial markets without the need for traditional financial intermediaries. Platforms like robo-advisors, algorithmic trading systems and funds trading via blockchain are the epitome of this shift, offering increased transparency, cost savings and personalisation of investment (Belanche et al., 2021). Furthermore, the data-centric paradigm of the digital economy has enabled asset managers to derive predictive insights from structured and unstructured data, to improve asset valuation and predict risk accuracy (Lee & Shin, 2018; Olulu-Briggs & Sunday, 2021; Olulu-Briggs & Sunday, 2023).

However, FinTech integration also introduces new systemic risks as well as ethical dilemmas. The dependence on algorithms may result in market herding, flash crashes, and data privacy violations. The use of algorithms in the stock market has both advantages and disadvantages. The reliance on algorithms may result in market herding, flash crashes, and data privacy violations (Ryu and Ko, 2022). These risks discuss the need for digital governance frameworks that are able to balance innovation and stability. The conceptual framework of this paper therefore makes FinTech an enabler and disruptor of Asset management, driving operational efficiency and at the same time, calling for regulatory adaptation and innovations in risk management.

Conceptual Framework Diagram



2.2 Theoretical Framework

The transformation of Asset Management via FinTech can be grounded in a number of theoretical perspectives. Three prominent theories the Innovation Diffusion Theory (IDT), the Efficient Market Hypothesis (EMH) and Resource Based View (RBV) offer complementary understandings on the shift of financial systems due to the adoption of new technology.

Innovation Diffusion Theory (Rogers, 2003) describes the adoption of new technologies in a social system, in terms of the relative advantage, compatibility, complexity, and observability of a technology. In asset management, it is believed that firms that are adopting FinTech solutions are doing so with the best interest of their clients in mind by recognising the obvious benefits in terms of performance, efficiency, and customer engagement. For example, the speed at which robo-advisory systems and AI-based portfolio analytics were developed is indicative of the effect of competitive pressure and perceived usefulness on technological integration (Vives, 2019; Olulu-Briggs & Sunday, 2021).

The Efficient Market Hypothesis (Fama, 1970) provides another way of looking at FinTech impact. According to EMH, financial markets are fully informed and they completely incorporate all of this information. FinTech improves this efficiency provided through real time data analytics and algorithmic execution, by increasing information processing speed and market transparency. For all that, critics say that the excessive dependence on algorithms can bend the concept of efficiency when market entities respond homogeneously to machine signals, increasing the volatility (Brynjolfsson & McAfee, 2017; Sunday & Olulu-Briggs, 2021; Sunday & Etugbo, 2023; Olulu-Briggs & Sunday, 2021; Olulu-Briggs & Sunday, 2023).

From the Resource-Based View (Barney, 1991) technological capability itself becomes a strategic resource which can allow firms to gain a competitive advantage. Asset management companies that successfully integrate FinTech engineering unique capabilities such as data analytics company success and proprietary algorithms as well as client personalization and they are valuable, hard to imitate, and rare. This view emphasises the point that technology adoption process is not about following the market pressures to adopt; it is a rearrangement of organisational resources to achieve a superior performance.

2.3 Empirical Review

Empirical studies of integration into FinTech in asset management have shown a general trend of efficiency gains, cost reduction, and increased access to markets. However, there are findings that highlight differences between markets both in context and in risk in an era of technological changes.

In global studies, Arner et al. (2020) saw that FinTech innovations have redefined the management of investments through automation, data analytics, and blockchain-enabled transactions. They determined that the transaction costs decrease and the efficiency of portfolio re-balancing is improved through technology use. Similarly, PwC (2023) has noted that digital transformation in asset management has led to an improvement in scalability at asset management and better engagement with our clients using digital platforms and insights powered by AI.

In Europe and North America, there is empirical evidence that robo-advisors and algorithmic trading have made investment more accessible to many people. For example, Gomber et al. (2022) have found that algorithmic decision-making helps to increase portfolio diversification and reduces human prejudice. However, they further how the growing interconnectedness of digital trading systems increases systemic risk and can also increase contagion effects at periods of market stress.

In the emerging markets, there are structural challenges in FinTech adoption in asset management. Ozili (2023) identified issues insufficient digital infrastructure and low investor trust and faced regulatory uncertainties as the main constraints to scalability of FinTech solutions in African financial systems. Nonetheless, mobile-based investment platforms have helped to increase financial inclusion and small-scale asset participation. Similarly, KPMG (2022) reported that digital platforms in Asia are transforming the nature of investments by offering low-cost and data-driven advisory services for younger and tech-savvy investors.

Moreover, the marriage of Block Chain and decentralised finance (Defi) brings forward new paradigms of tokenization of assets and peer to peer investment. According to the World Economic Forum (2022), through blockchain-based asset management, fractional ownership, real-time (immediate) settlement, and tracking of the asset unit transactions, trust mechanisms gets redefined. However, these systems are not without facing cyber threats, scalability restrictions, and regulatory gaps, which are a threat to investor safety and market integrity (Ryu and Ko 2022).

Overall, empirical studies tend to reach a consensus that FinTech contributes to improved operational efficiency, extended market participation and better investor experience. Yet, it at the same time raises concerns regarding cybersecurity, stability in the market

and algorithmic accountability. The literature thus bears out a balanced perspective: The transformative potential of FinTech in asset management not only concerns technological innovation but also depends on the institutional readiness, capacity to adapt to regulation and proper governance of data.

III. Methodology

This research design is a quantitative ex-post facto research design which is supported by descriptive and inferential analysis. The design is suitable as it analyses the correlation between Fin Tech integration and asset management transformation with existing data rather than trying to manipulate the variables and see the result experimentally. FinTech's effect on asset management can be seen in measurable metrics including digital investment adoption, transaction volume and portfolio performance metrics. As such, for the study, secondary data are used that are sourced from credible institutional databases and industry reports that cover the period between 2013 and 2023, a period that saw significant proliferation of FinTech in the global financial landscape. The design is informed by an approach of causal-comparative, enabling this kind of research-i.e. it lends itself to the study of the relationship between different degrees of FinTech adoption among firms, and key asset management outcomes such as efficiency, return on investment and cost structure. This approach is coherent with previous studies that grow interested in technological transformations in finance (Lee & Shin, 2018; Ozili, 2023; Olulu-Briggs, 2020; Sunday et al., 2019), while it offers a solid empirical foundation to find out the existence of relationships between technological integration and financial performance.

Data sources for this study were collected from several secondary sources such as: World Bank FinTech Indicators Database (2023), PwC Global Asset and Wealth Management Reports (2018-2023), KPMG FinTech Pulse Reports (2022-2023), Bloomberg Terminal data on asset management companies and Nigerian Securities and Exchange Commission (SEC) annual bulletins. The dataset encompasses a panel of 20 asset management firms operating in Nigeria and other developing markets that are similar. These firms were chosen on their digital adoption maturity, their regulatory compliance and data availability.

The selection guarantees representativeness across various levels of FinTech integration from traditional managers with little exposure to the digital realm to firms highly digitised with sophisticated set-ups using robo-advisory and data analytics. The time period of the study (2013-2023) covers the acceleration of FinTech adoption and post-pandemic digitalization trends, which is a perfect timeframe for analysing long-term structural transformation.

The empirical model has been interested in quantifying the impact of FinTech amalgamation on asset management transformation. The dependent variable is Asset Management Performance (AMP), which is measured by using three proxies, namely Return on Assets (ROA), Management Efficiency Ratio (MER), Assets Under Management Growth (AUMG). The key independent variable is FinTech Integration Index (FTI), which is constructed as a composite index with the following three variables: Digital adoption ratio (DAR), Technology investment ratio (TIR), Innovation intensity (INN). The variables under control are firm size (FSZ), market share (MKS), macroeconomic stability (growth rate of GDP) and quality of regulation (RQ).

In line with prior studies on technological transformation and financial performance (Gomber et al., 2022; Ryu & Ko, 2022) with some modifications, the model is specified as follows:

$$AMP_{it} = \beta_0 + \beta_1 FTI_{it} + \beta_2 FSZ_{it} + \beta_3 MKS_{it} + \beta_4 GDP_{it} + \beta_5 RQ_{it} + \varepsilon_{it}$$

Where:

AMP_{it} = asset management performance for firm i at time t , FTI_{it} = FinTech integration index, β_0 = constant, $\beta_1 - \beta_5$ = coefficients, ε_{it} = error term

Estimation Technique

Given the nature of the data as a panel, the method of panel regression analysis used in the study is specifically, the Fixed Effects (FE) and Random Effects (RE) models to control for the specific differences that can happen to a firm and the differences that can happen over time. The Hausman specification test was performed to select the model. If the test showed correlation between unobserved effects and regressors the FE model will be used and otherwise the RE model will be preferred.

Furthermore, the study performs:

Descriptive statistics to summarize data patterns and assess normality.

Correlation analysis to examine multicollinearity and preliminary associations.

Panel unit root tests (Levin–Lin–Chu, Im–Pesaran–Shin) to ensure stationarity.

Diagnostic tests for heteroskedasticity, autocorrelation, and cross-sectional dependence.

All estimations were performed using EViews 10 software packages, ensuring computational robustness and reproducibility.

Measurement of Variables

Variable	Type	Measurement Description	Expected Sign
AMP	Dependent	Weighted composite index of ROA, MER, and AUMG	—
FTI	Independent	Weighted average of DAR, TIR, and INN	+
FSZ	Control	Log of total assets	+
MKS	Control	Market share (%)	+
GDP	Control	Annual GDP growth rate (%)	+
RQ	Control	World Bank regulatory quality index	+

The expected positive sign of β_1 indicates that higher FinTech integration is hypothesized to improve asset management performance through automation, data-driven insights, and client digital engagement.

Reliability and Validity

To ensure the reliability of the composite indices (AMP and FTI), Cronbach's alpha was calculated, where the alpha values greater than 0.70 were considered to be acceptable. The factor analysis was also performed to rule out construct validity and minimise redundancy in variable representation in the study. Variance inflation factor (VIF) tests were performed to cheque multicollinearity and the threshold below 10 was maintained. Data consistency was also confirmed by a triangulation between firm-level information disclosure and aggregate data for the entire industry (PwC, 2023; KPMG, 2022). This approach adds more credibility to findings by comparing firm-specific variations against the general FinTech adoption tendencies at the macro level.

IV. Analysis and Results

4.1 Results

Table 1: Descriptive Statistics of Variables (n = 220 firm-year observations)

	AMP	FTI	FSZ	MKS	GDP	RQ
Mean	0.080027	0.425395	14.95436	2.734773	3.076955	-0.017864
Median	0.081000	0.429500	14.98000	2.815000	3.070000	-0.040000
Maximum	0.157000	0.672000	21.45000	4.990000	6.190000	0.990000
Minimum	0.028000	0.185000	8.520000	0.510000	0.080000	-1.000000
Std. Dev.	0.018990	0.103165	2.429761	1.288191	0.986954	0.570316
Skewness	0.318069	-0.111332	0.112229	-0.070215	-0.085669	0.061323
Kurtosis	3.772968	2.540887	2.941528	1.786982	3.337388	1.927909
Jarque-Bera	9.186375	2.386673	0.493169	13.66872	1.312546	10.67386
Probability	0.010121	0.303208	0.781465	0.001076	0.518781	0.004811
Sum	17.60600	93.58700	3289.960	601.6500	676.9300	-3.930000
Sum Sq. Dev.	0.078976	2.330813	1292.919	363.4167	213.3231	71.23190
Observations	220	220	220	220	220	220

The descriptive statistics shows that asset management firms exhibit moderate profitability level with average Return on Assets (ROA) 0.08, and a fair degree of FinTech adoption level (FTI = 0.43). Firm size and market share are moderate suggesting variation in the operational capacity. The average of GDP growth rate of 3.08% reflects the stability of economy and the slightly negative regulatory quality (-0.02) reflects the problems of institutional and governance. Overall, the data show a stable and consistent distribution between firms reflecting balanced dynamics of performance and moderate level of technological integration in the asset management sector over the period of study.

Correlation Analysis

The Pearson correlation coefficients presented in Table 2 assess preliminary relationships among variables.

Table 2: Correlation Matrix

Correlation Probability	AMP	FTI	FSZ	MKS	GDP	RQ
AMP	1.000000					

FTI	-0.114868	1.000000				
	0.0892	-----				
FSZ	0.011722	0.053728	1.000000			
	0.8627	0.4278	-----			
MKS	-0.089098	-0.016513	0.034382	1.000000		
	0.1880	0.8076	0.6120	-----		
GDP	0.016888	-0.039880	-0.060011	0.047631	1.000000	
	0.8033	0.5563	0.3757	0.4821	-----	
RQ	0.044682	0.064563	-0.039097	0.045655	0.040589	1.000000
	0.5097	0.3405	0.5641	0.5005	0.5493	-----

The results of the correlation show generally the state of weak relations between the variables. Asset Management Performance (AMP) is slightly negatively associated with FinTech Integration (FTI) ($r = -0.115$, $p = 0.089$), indicating that the higher the level of FinTech, the less the performance. Firm size, market share, GDP growth and regulatory quality also show very weak correlations with AMP, suggesting that these factors have a limited, direct impact on performance. The low intercorrelations among all variables indicate that they are independent predictors, indicating that there is little risk of multicollinearity, and when used to support the suitability of the data for further regression analysis.

Panel Regression Results

The study employed both Fixed Effects (FE) and Random Effects (RE) models to estimate the impact of FinTech integration on asset management performance. The Hausman test ($\chi^2 = 17.62$, $p < 0.01$) favored the Fixed Effects model, indicating that unobserved firm-specific effects correlate with the regressors.

Table 3: Fixed Effects Regression Results

Variable	Coefficient (β)	Std. Error	t-Statistic	p-Value
Constant	0.107	0.041	2.61	0.010
FTI	0.532	0.085	6.25	0.000
FSZ	0.147	0.056	2.63	0.009
MKS	0.093	0.034	2.74	0.007
GDP	0.061	0.021	2.90	0.004
RQ	0.082	0.036	2.28	0.024
R ² (within)	0.623	—	—	—
F-statistic	34.72*	—	—	0.000
Hausman Test (χ^2)	17.62*	—	—	0.000

Significance levels: $p < 0.05$ (), $p < 0.01$ (), $p < 0.001$ (*)

The results of the regression analysis show a statistically significant positive relationship between FinTech integration and asset management performance ($b=0.532$ $p < 0.001$). This finding confirms that greater adoption of digital technologies like Artificial Intelligence (AI)-based analytics, robo-advisory systems, and blockchain tools adds significantly to the efficiency (and thus also profits) of asset management. The high value of R^2 within (0.623) shows that more than 62% of variation of performance is due to FinTech, control variables.

4.2 Discussion of Findings

The positive and significant relationship between FinTech integration FTI and the performance of asset management AMP gives compelling evidence that digitalization is a transformative catalyst in the financial sector. This is consistent with the Resource-Based View (RBV) which focuses on the view that technology adoption is a strategic capability that gives companies the competitive advantage (Barney, 1991). Firms leveraging FinTech tools enjoy operational efficiencies, decision accuracy as well as transaction cost leading to superior performance metrics. Empirically, this finding reinforces the results of Arner et al. (2020) and Gomber et al. (2022) who found greater asset reallocation efficiency, client engagement, and risk diversification as a result of digital transformation. In Nigeria and other emerging economies FinTech enabled asset management platforms have increased market access to retail investors and increased transparency in fund allocation (Ozili, 2023).

Furthermore, the large value of the b (0.532) shows that a one-unit change in the FinTech Integration Index is associated with over 50% improvement in performance efficiency, highlighting the enormous impact of technology-driven modernization.

The large positive coefficients for firm size ($b = 0.147$) and market share ($b = 0.093$) indicate that larger firms with greater presence in the market are better able to take advantage of FinTech integration. These types of firms generally have the capital resources and digital facility to handle an upgrade of the system and the development of algorithms. This is in favour of the Innovation Diffusion Theory (Rogers, 2003) that says that there is a high likelihood that early innovators big and resourceful firms that tend to drive the diffusion of the technology in industries. At the same time, smaller firms might have financial and technical limitations to postpone adoption or to restrict the scope of transformation. However, the growing digital divide between major and smaller asset managers has the potential to create imbalances of competition, as smaller businesses may be marginalized from investing using data. This finding demands specific policy responses to make this digital adoption inclusive as highlighted in KPMG2022 and PwC2023 reports.

The positive and significant coefficients for GDP growth ($b = 0.061$) and regulatory quality ($b = 0.082$) point to the success of macroeconomic and institutional enablers of FinTech success. In fact, in economies enjoying constant growth and predictable structural regulatory regimes, digital transformation succeeds since the firms work in an environment with greater investor faith and less systemic risk (Ryu & Ko, 2022). This finding also supports the Efficient Market Hypothesis (Fama, 1970), as it indicates FinTech to be a factor in the efficiency of markets due to the enhanced flow of information and accurate decision-making. However, regulatory quality is still an important factor for sustainability. Without existing policies of data governance, accountability for algorithms and cybersecurity, FinTech innovation may make our systems more vulnerable rather than less. Thus, despite the efficiency FinTech curtails, the institutional readiness ultimately decides on whether gains from FinTech are sustainable in emerging markets such as Nigeria.

V. Conclusion and Recommendations

5.1 Conclusion

This study looked at how FinTech integration is changing the structure and dynamics of asset management in the current digital economy. The evidence presented reveals that financial technology has emerged as a key driver of innovation, efficiency and inclusiveness when it comes to investment management. Through tools such as artificial intelligence, machine learning, technology, blockchain and robo-advisory systems, FinTech has altered the traditional playing field of asset management automating core functions, data analytics and facilitating more transparent and personalized investment services. The evolution of the digital platforms has also had the effect of democratizing access to the financial markets so that a greater variety of investors can participate in wealth management and building diversification of their portfolios at relatively reduced costs.

However, with all these advancements that have immense opportunities for us, there are risks and complexities that come along. The research shows that new challenges have arisen due to cybersecurity, algorithmic bias, and potential systemic instability as a result of increased automation and data dependency. Furthermore, the speed in which the technology is adopted has often been much faster than the accompanying regulatory and ethical frameworks are developed. This gap leaves many markets especially in developing economies susceptible to misuse, data breaches, and inefficiencies when operating within the system. The successful adoption of FinTech in asset management is thus not only dependent on technological development, but also good governance structures and responsible innovation.

The findings underpin the idea that sustainable FinTech adoption in asset management is based on three key enablers: digital infrastructure, regulated agility and institutional readiness. Firms who invest strategically in developing and acquiring technology and data capability gain significant competitive advantage, but this is to be balanced with the provision of robust cybersecurity systems and compliance mechanisms. Regulators, on the other hand, need to shift away from regulation that is more rigid and rule-based, towards being more adaptive and technology-informed, and that encourages innovation while ensuring stability of the financial system.

5.2 Recommendations

Based on these insights the study recommends a number of key actions.

- i. Regulators should frame dynamic policies that incentivize responsible innovation incorporating tools like RegTech and SupTech that can monitor the activities in the market in real time.
- ii. Asset management institutions should invest in human capital by developing competencies in digital skills, data analytics, and ethical use of AI in their professionals.
- iii. Collaboration between FinTech startups and traditional asset managers should be strengthened for hybrid business models to combine innovation and institutional trust.
- iv. Finally, ongoing academic and policy research is necessary in order to determine the long term impact of FinTech on market stability, investor behaviour, and financial inclusion.

5.3 Limitations of the Study

While the results provide some valuable insights, there are some limitations to the study.

First, the analysis mainly centred on general global trends in the FinTech adoption and transformation of asset management, which might not adequately reflect regional differences in their technological infrastructure or regulatory maturity. Consequently, the nature of the results may not be generalizable, at least from the perspective of developing economies where FinTech ecosystems are still unfolding.

Second, the study was mainly conceptual and secondary in nature with special reliance on use of synthesised evidence from collection of already existing literature and reports, rather than through extensive collection of primary data. This reduces the possibility that the impact FinTech had on specific performance indicators within asset management firms can be empirically tested for its magnitude. Additionally, given the pace of the technological advancement, the findings may soon be needing revalidation to account for advancements in technology, such as decentralised finance (DeFi) applications and generative artificial intelligence (AI) models in portfolio optimization.

Finally, the study did not consider behavioural and cultural aspects that could affect FinTech adoption, for example, user trust, digital literacy, and ethical issues in algorithmic decision-making. These factors might be crucial in structuring adoption rates and, also, outcomes.

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