Forensic Accounting and Financial Integrity in the Nigerian Public Sector

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DOI: 10.56201/jafm.vol.11.no3.2025.pg122.145

Abstract
This study examines the role of forensic accounting in enhancing fraud detection and promoting financial integrity within the Nigerian public sector. Persistent issues such as systemic corruption, weak internal controls, and poor financial oversight continue to undermine public accountability and fiscal discipline. Using a conceptual and literature-based approach, the paper explores how forensic accounting techniques ranging from investigative audits to digital forensic tools can be leveraged to detect, prevent, and prosecute financial crimes in public institutions. The findings reveal that forensic accounting significantly contributes to uncovering financial irregularities, reinforcing anti-corruption frameworks, and supporting litigation through the provision of credible evidence. Despite its potential, the widespread adoption of forensic practices remains constrained by structural inefficiencies, lack of technical expertise, and political interference. The study underscores the need for institutional reforms, professional capacity building, and legislative support to fully integrate forensic accounting into Nigeria's public financial management systems. The implications of the study suggest that forensic accounting not only serves as a reactive tool for fraud investigation but also as a proactive mechanism for improving financial governance. Accordingly, the paper recommends the establishment of independent forensic audit units, enhancement of training and certification programs, deployment of technology-driven investigative tools, and reinforcement of whistleblower protection systems. Strengthening these areas will be critical to promoting transparency, accountability, and long-term financial sustainability in Nigeria's public sector.

Keyword: *Forensic Accounting, Fraud Detection, Financial Integrity, Public Sector, Nigeria*

1.0 Introduction

The knowledge of forensic accounting can be likened to a storage system, much like the internet, that possesses the capacity and space to store vast amounts of data without running out of space. Forensic accountants are equipped to investigate every aspect of human activities and resolve associated issues, often involving complex financial fraud scenarios. This multidisciplinary field integrates knowledge from accounting, auditing, criminology, psychology, sociology, and law, especially when it comes to investigating fraud, loss prevention, and legal matters related to financial crimes. Forensic accounting has become integral in addressing and mitigating fraud in the public sector, where it is essential to have expert knowledge to navigate complex cases.

Until recently, however, the impact of forensic accounting was not fully recognized. Major corporate scandals, such as Global Crossing, Adelphia, WorldCom, and Enron, marked a turning point. These scandals prompted a new era in which the professional expertise of forensic accountants was critically tested. Since then, the fight to eradicate fraud and prosecute its perpetrators has continued. After the accounting scandals of the early 2000s, the public's confidence in the forensic accounting profession began to grow (Coenen, 2008; Crumbley, 2007; Rezaee, 2005). The field evolved, and forensic accountants recognized the importance of stepping up to the challenge. This led to an expansion of their roles, allowing them to engage more directly with investigative practices, provide specialized services, and offer professional expertise in fraud detection and prevention.

Forensic accounting's relevance in Nigeria's public sector cannot be overstated. The public sector in Nigeria has historically been a breeding ground for fraudulent activities due to weak governance structures, lack of accountability, and poor oversight. Modern forensic accounting approaches are essential in countering these challenges by providing the tools needed to investigate, detect, and prevent financial crimes. These methods do not just react to fraud after it has occurred, but also work to prevent it from happening in the first place, offering a holistic solution to fraud management in the public sector. By employing contemporary forensic accounting tools, Nigeria can enhance the integrity of public sector financial operations and proactively prevent fraud ensuring financial integrity.

Fraud represents a significant threat to financial stability and economic growth, affecting organizations across all sectors and sizes (Association of Certified Fraud Examiners [ACFE], 2020; Ruankaew, 2016). Fraudulent schemes such as embezzlement, tax evasion, and financial misreporting are well-documented in both private and public sectors (Dada & Jimoh, 2020). These schemes are prevalent globally and undermine corporate governance, transparency, and accountability (Afriyie et al., 2021). In Nigeria, the persistent occurrence of fraud, particularly within government institutions, exacerbates public mistrust and challenges financial integrity, highlighting the urgent need for enhanced detection mechanisms such as forensic accounting (Amah, 2023; Egiyi, 2022; Abdulrahman, 2019). Nigeria's public sector has historically struggled with systemic inefficiencies and weak oversight structures, creating opportunities conducive to fraudulent activities (Efut & Okoye, 2019; Agbo & Obodoekwe, 2020).

There have been various efforts at reforms, but traditional accounting and internal control systems have proven inadequate to detect and prevent sophisticated financial crimes (ACFE, 2014; Ogunode & Dada, 2022). The widespread nature of these vulnerabilities is particularly evident in public-sector-driven economies such as Akwa Ibom State in Nigeria, where governance complexities and ethical challenges often facilitate financial misconduct. Thus, ministries and public agencies continue to face persistent accountability and transparency challenges, indicating significant gaps in existing financial governance frameworks (Ikpe & Uwah, 2023; Mike et al., 2022; Suleiman et al., 2018; Amaefule et al., 2017). The increasing sophistication of financial crimes necessitates the adoption of forensic accounting within government institutions. Forensic accountants possess specialized skills in fraud detection and corruption prevention, making their role essential to effective financial oversight (Alhassan, 2021). As a crucial bridge between economic and political systems, forensic accounting significantly promotes transparency and accountability (Afriyie et al., 2021; Egiyi, 2022). It integrates specialized investigative techniques and expert knowledge in financial crimes to proactively identify, prevent, and address fraudulent practices (Salleh & Aziz, 2014; Mukoro et al., 2013; Okoye & Mbanugo, 2020). Despite its established effectiveness, forensic accounting remains significantly underutilized within Nigeria’s public sector (Enofe et al., 2013; Lawan et al., 2018).

The prevalence of financial irregularities and corruption highlights the necessity for forensic accountants to enhance investigative capacities and strengthen regulatory oversight in developing economies like Nigeria (Wahyudi et al., 2024; Sorunke, 2018; Mukoro et al., 2013). Research suggests that weak regulatory frameworks and insufficient oversight mechanisms often contribute to financial misstatements and corruption, emphasizing the need for fraud prevention agencies to adopt forensic accounting in public organizations (Oladipo & Olurotimi, 2021; Okoye & Mbanugo, 2020). However, the widespread adoption of forensic accounting remains hindered by challenges such as the absence of structured forensic audit frameworks and limited awareness of forensic accounting practices (Ariyo-Edu & Woli-Jimoh, 2024; Salleh & Aziz, 2014; Effiong, 2012)

The premise of this study, based on the identified challenges, is to examine the role of forensic accounting in fraud detection and financial integrity within Nigeria’s public sector. Specifically, it seeks to evaluate the effectiveness of forensic accounting techniques in identifying fraudulent activities, assess the relevance of forensic accountants in financial investigations, and analyze the contributions of forensic accounting to transparency and accountability in public financial management. This study holds significant implications for policymakers, regulatory bodies, and administrators within Nigeria's public sector. By analyzing the critical role of forensic accounting, the findings can inform policy formulation, encourage the widespread adoption of forensic accounting practices, and ultimately enhance the governance and transparency of financial resources. Furthermore, it provides valuable insights into existing knowledge and practical applications, promoting greater financial integrity and accountability within Nigeria’s public institutions.

2.0 Review of Related Literature

2.1 Contemporary Evolution and Relevance of Forensic Accounting

The concept of forensic accounting gained formal recognition during the 1940s, particularly during World War II, when financial scrutiny became essential in detecting and combating economic crimes. Maurice E. Peloubet is credited with introducing the term "forensic accounting" in his 1946 article Forensic Accounting: Its Place in Today's Economy (Rasey, 2009; Ulucan et al., 2012; Zysman, 2004). However, its practical roots trace back to the early 1900s, with the U.S. Internal Revenue Service leveraging accounting techniques in tax evasion investigations, most notably in the prosecution of Al Capone. The field experienced significant advancements in the 1980s, with contributions from scholars such as Sunderland, Cressey, Albrecht, and Wells, as well as professional organizations like the Association of Chartered Certified Accountants (ACCA) and the Association of Certified Fraud Examiners (ACFE).

Forensic accounting is a multidisciplinary profession that combines principles of accounting, auditing, and investigative techniques to detect, prevent, and resolve financial fraud and economic crimes (Singleton & Singleton, 2010; Kaur et al., 2023). Its critical role support legal proceedings by generating reliable financial evidence for litigation and internal investigations (Rezaee et al., 2016; Arslan, 2020). Moreover, it is distinguished by key professional attributes such as objectivity, neutrality, and independence, which enhance its credibility in dispute resolution (Herbert et al. 2017). Its application dates back even further to ancient Egypt, where financial record-keeping systems were instrumental in fraud prevention (Asogwa, 2014). Significant financial scandals such as Enron and WorldCom, as well as the 1997 Asian financial crisis in Indonesia, further propelled the growth of forensic accounting as a distinct professional discipline (Peterson, 2003; Suryanto, 2014). In response, professional certifications such as the Certified in Financial Forensics (CFF), offered by the American Institute of Certified Public Accountants (AICPA), have been established to standardize forensic accounting expertise (Smith, 2016). Technological advances, including the use of data analytics and digital auditing tools, have also significantly enhanced the effectiveness of forensic investigations in identifying anomalies and fraudulent patterns (Davis & Farrell, 2017; Mustafa Alastal et al., 2024).

In the public sector, forensic accounting is essential for fraud detection, prevention, and ensuring financial oversight. It contributes to the integrity and transparency of financial systems by identifying internal control weaknesses and providing evidence-based recommendations for improvement (Alhassan, 2020). Thus, modern forensic accounting serves both as a detector of financial irregularities and as a strategic advisor in promoting long-term organizational credibility and accountability.

2.2 Theoretical Applications:

2.2.1 The Fraud Triangle Theory

The Fraud Triangle Theory provides a foundational understanding of fraud detection and the maintenance of financial integrity within the Nigerian public sector. Developed by criminologist Donald Cressey in 1953, the theory posits three critical elements; motive (pressure), opportunity, and rationalization, must coexist for fraud to occur (Cressey, 1953). This framework has been extensively integrated into global auditing standards, including International Standard on Auditing (ISA 240), and forms a crucial part of forensic accounting curricula worldwide (Rasheed et al., 2023; Özkul & Pamukcu, 2012; Albrecht et al., 2004). The applicability of this theory extends to public sector institutions, where weak governance structures, inadequate oversight, and financial mismanagement create an enabling environment for fraudulent activities (Dorminey et al., 2012). Recent studies underscore the persistent relevance of this theory, especially in the Nigerian public sector, where weak governance, inadequate oversight, and pervasive financial mismanagement continue to fuel fraudulent activities (Abdullahi et al., 2015; Albrecht et al., 2019). The integration of these elements provides forensic accountants with a better approach to identifying, preventing, and investigating fraudulent activities.

The motive (pressure) component of the Fraud Triangle refers to internal or external factors that drive individuals to engage in fraudulent behaviour (Cressey, 1953). These pressures often stem from financial hardships, excessive debt, or high living expenses, leading individuals to manipulate financial records to meet expectations (Wells, 2017). In the corporate sector, unrealistic financial performance targets imposed by management can push employees toward fraudulent financial reporting (Skousen et al., 2009). Within the public sector, financial pressures manifest in various ways. Low wages, delayed salary payments, and expectations of bribery can incentivize employees to misappropriate funds (Button et al., 2007). Additionally, budgetary constraints, political influences, and pressure from superiors may encourage the misrepresentation of financial statements or the unauthorized diversion of public funds (Beasley et al., 2010). Research suggests that in environments with weak regulatory enforcement, the likelihood of fraudulent activities increases significantly (Homer, 2020; Hogan et al., 2008). Recent studies indicate that systemic corruption, delayed salary payments, and low remuneration significantly heighten financial pressures on Nigerian public sector employees, increasing the risk of fraud (Transparency International, 2022). A notable example is the Pension Reform Task Team fraud scandal, where public officials misappropriated pension funds due to systemic financial pressures. This case underscores the importance of addressing economic incentives and improving wage structures to mitigate fraud risks (Economic and Financial Crimes Commission [EFCC], 2021).

The opportunity element of the Fraud Triangle refers to the conditions that enable fraud within organizations. Without the opportunity to commit fraud, pressure alone is insufficient to drive fraudulent behaviour (Dorminey et al., 2012). Opportunity often arises in organizations with weak internal controls, where individuals have unchecked access to financial records or assets (Albrecht et al., 2019). In the Nigerian public sector, opportunities for fraud emerge due to poor oversight mechanisms, inadequate governance structures, and a lack of financial transparency (Wells, 2017). Government agencies frequently suffer from inefficient procurement processes, non-digitized financial reporting systems, and a lack of independent auditing, making it easier for fraudulent activities to go undetected (Murphy & Dacin, 2011).
Fraud risks are further heightened when officials responsible for financial management also oversee audit and compliance functions, eliminating segregation of duties (Skousen et al., 2009). The Nigerian Auditor-General’s 2022 report identified multiple instances of weak

internal controls in public institutions, including ineffective procurement processes, the absence of digitized record-keeping systems, and inadequate segregation of duties (Office of the Auditor-General for the Federation, 2022). A notable example is the Nigerian National Petroleum Corporation (NNPC) fraud case, where billions of naira were misappropriated due to poor financial transparency and compromised internal audit mechanisms (BudgIT Nigeria, 2022). To mitigate fraud risks, strengthening internal controls, implementing independent audits, and enforcing stringent approval processes are essential preventive strategies for enhancing public sector accountability.

The rationalization element of the Fraud Triangle describes the cognitive justifications individuals use to excuse their fraudulent actions. Perpetrators convince themselves that their behaviour is not unethical or illegal, often employing self-serving arguments to justify misconduct (Cressey, 1953). A common rationalization is the belief that fraudulent acts serve as temporary solutions and that funds will eventually be repaid (Hogan et al., 2008). In public sector institutions, employees may perceive bribery, misappropriation of funds, and financial misconduct as necessary survival mechanisms due to low wages, lack of incentives, or perceived organizational injustice (Murphy & Dacin, 2011). Others justify fraud by assuming that government agencies are large enough to absorb financial losses without significant consequences (Dorminey et al., 2012). A particularly dangerous form of rationalization occurs when individuals believe fraud is necessary to protect an organization. For instance, public officials may manipulate financial reports to conceal mismanagement of funds, maintain institutional stability, or avoid political backlash. While such actions may appear beneficial in the short term, they often lead to severe financial and reputational damage in the long run (Beasley et al., 2010; Skousen et al., 2009).

In Nigeria, rationalizations often include perceptions of widespread corruption, leading employees to believe their fraudulent actions are acceptable within the broader corrupt system. For example, a study on internal control mechanisms in the Nigerian public sector highlighted that employee might rationalize fraudulent behaviours due to systemic corruption and inadequate oversight, thereby perceiving such actions as normative (Enofe et al., 2016). Understanding these rationalizations aids forensic accountants in detecting fraudulent behaviour patterns and implementing preventive measures, reinforcing accountability and ethical standards in the Nigerian public sector.

2.2.2 The Fraud Diamond Theory

The Fraud Diamond Theory offers a more comprehensive framework for understanding fraudulent activities in the Nigerian public sector, particularly in the context of forensic accounting and financial integrity. Developed by Wolfe and Hermanson (2004), the model extends the Fraud Triangle Theory by incorporating a fourth element "Capability" which acknowledges that an individual must not only experience pressure, opportunity, and rationalization but also possess the necessary skills, authority, and confidence to commit fraud successfully. This addition is crucial in public sector fraud detection, as many financial crimes within government agencies involve individuals in positions of power who have the expertise and access to exploit systemic weaknesses (Avortri & Agbanyo, 2021; Vousinas, 2019).

In the Nigerian public sector, capability manifests through authority, specialized knowledge, and confidence in evading detection. High-ranking officials such as government accountants, procurement officers, and internal auditors often wield substantial control over financial transactions, making it easier for them to override internal controls, manipulate financial statements, or approve fraudulent expenditures without immediate suspicion (Dominey et al., 2010). Additionally, weak internal controls, poor financial reporting mechanisms, and ineffective regulatory oversight provide fertile ground for fraudsters to exploit these vulnerabilities (Ruankaew, 2016). Research by Imagbe and Abiloro (2020) highlights that individual in such positions can exploit their authority and expertise to perpetrate fraud within Nigerian banking institutions.

Besides, fraud perpetrators in the Nigerian public sector frequently rationalize their actions by framing fraudulent activities as a necessity, entitlement, or an acceptable practice due to systemic corruption. However, beyond rationalization, fraudsters must possess the capability to act on their intentions. This includes technical skills to manipulate financial reports, access to confidential information, and the psychological resilience to sustain fraudulent schemes without succumbing to detection pressures (Albrecht et al, 1984). Those who engage in financial crimes at governmental levels often demonstrate high emotional intelligence, which enables them to conceal fraudulent transactions, navigate investigations, and manipulate stakeholders (Rae & Subramaniam, 2008). The capability component is crucial in understanding and preventing fraud, while lack of robust internal control systems in Nigerian public institutions significantly contributes to the prevalence of fraudulent activities (Abdullahi et al., 2015; Enofe et al.., 2015).

Thus, forensic accountants must therefore move beyond traditional detection methods and focus on identifying individuals who possess the authority and expertise to commit fraud. By integrating capability analysis into fraud risk assessments, forensic investigators can develop more targeted fraud prevention strategies, ensuring that financial crimes in the Nigerian public sector are detected and mitigated at their root causes (Murphy & Dacin, 2011). The Fraud Diamond Theory underscores the importance of forensic accounting in enhancing financial integrity and strengthening public sector accountability, making it an indispensable tool in the fight against corruption and fraudulent financial practices in Nigeria.

2.2.3 The Fraud Scale Theory

The Fraud Scale Theory, developed by Albrecht et al. (1984), expands upon Cressey's (1953) Fraud Triangle by incorporating personal integrity as a fundamental determinant of fraudulent behaviour. This theory posits that fraud is influenced by three core elements: situational pressures, perceived opportunities, and personal integrity. It assesses how ethical values and moral character influence an individual's likelihood of committing fraud. This model underscores that fraud is not solely driven by pressure and opportunity but is also significantly shaped by an individual's ethical disposition. Unlike the Fraud Triangle, which primarily emphasizes rationalization, the Fraud Scale highlights that individuals with low personal integrity are more prone to fraudulent activities, even when faced with similar pressures and opportunities (Albrecht et al., 1984). In aligning with role of forensic accounting in fraud detection and financial integrity within the Nigerian public sector, the Fraud Scale Theory provides a critical framework for assessing financial misconduct.

Public sector fraud in Nigeria is often attributed to weak internal controls, financial pressures, and ethical deficiencies among officials, reinforcing the necessity of forensic accounting in mitigating fraud risks (Cressey, 1953). Recent studies have further expanded fraud theories, integrating integrity as a determinant in fraud occurrence (Saluja et al., 2022). Their proposed Fraud Square Model builds on the Fraud Scale by emphasizing the role of organizational integrity in fraud prevention, aligning with forensic accounting's objectives of enhancing financial integrity and transparency. This evolution underscores the need for forensic accountants to not only investigate financial discrepancies but also evaluate ethical compliance and integrity policies within public institutions. Given the increasing sophistication of financial fraud, forensic accounting remains indispensable in detecting anomalies, ensuring regulatory adherence, and strengthening internal controls within Nigeria's public sector (Abdulrahman, 2019).

This theory highlights the need to integrate ethical considerations into fraud risk assessments, ensuring that fraud detection mechanisms go beyond financial audits and focus on ethical predisposition. A forensic accounting approach rooted in the principles of the Fraud Scale Theory emphasizes ethical leadership, integrity-based recruitment practices, and a strong corporate culture to mitigate fraud risks. To enhance fraud prevention in the Nigerian public sector, organizations should adopt comprehensive measures, including ethical training, robust internal controls, transparency initiatives, and stringent recruitment practices. Regular ethics training reinforces integrity, while strong internal controls, such as segregation of duties and periodic forensic audits limit opportunities for fraud. Additionally, promoting a culture of accountability and whistleblower protection can further discourage unethical behaviour in the Nigerian public sector

2.3 Conceptual Linkages Between Forensic Accounting and Financial Integrity in the Public Sector

2.3.1 The Role of Forensic Accounting in Detecting Public Sector Fraud

Fraud in the public sector is intrinsically tied to human behaviour, as it requires deliberate and intentional actions to be perpetrated (Omar, 2013; Popoola et al., 2013). In Nigeria, corrupt practices have gradually become embedded in the institutional framework, often normalized within public systems. High-ranking government officials, who are entrusted with managing public funds and administrative affairs, frequently exploit their positions to divert or misappropriate public resources, thereby fuelling financial irregularities. The quantification of losses attributable to fraud remains elusive due to underreporting and the deliberate concealment of fraudulent activities (Kranacher et al., 2010; KPMG, 2010; Albrecht et al., 2010). Globally, the Association of Certified Fraud Examiners (ACFE, 2014) estimates that approximately 5% of organizational revenue is lost to fraud annually, amounting to $3.7 trillion in losses. Despite heightened awareness and the implementation of various anti-fraud measures, fraud continues to undermine organizational effectiveness, threaten financial sustainability, and erode public confidence in government institutions (Idris, 2017; Ruankeaw, 2016; Singleton & Singleton, 2010).

The growing application of forensic accounting in Nigeria's public sector has proven instrumental in detecting and preventing fraud. Forensic accounting integrates financial expertise with investigative techniques to uncover fraudulent transactions and ensure accountability. The use of forensic accounting significantly strengthens fraud prevention in public institutions by identifying red flags and promoting transparency (Abdulrahman, 2019). Through the meticulous examination of financial records and the evaluation of compliance processes, forensic accountants detect irregularities that may otherwise escape traditional audit procedures. The ability of forensic auditors to apply specialized investigative skills is a major factor in the successful detection of fraud within public institutions (Oyerogba, 2021). By proactively identifying weaknesses in financial systems and recommending strong internal controls, forensic accountants help mitigate the risk of fraudulent activity. This is particularly important in Nigeria, where conventional audit practices are often insufficient to expose complex fraud schemes (Vutumu et al., 2025).

In addition to detection, forensic accounting supports legal processes by providing credible evidence and expert testimony necessary for prosecuting financial crimes. In the Nigerian public sector, forensic accountants contribute significantly to legal proceedings by tracing financial anomalies and establishing factual links to fraudulent actions. The application of forensic accounting practices in Nigerian ministries can aid in uncovering fraud and facilitating court cases against offenders. The presentation of objective financial evidence not only enhances the likelihood of successful prosecution but also serves as a deterrent to potential fraudsters (Alhassan, 2021). Thus, forensic accounting reinforces the rule of law, strengthens governance frameworks, and promotes a culture of ethical financial management. By institutionalizing forensic accounting practices within public administration, Nigeria can improve fraud detection, ensure compliance, and restore integrity to its financial management systems.

2.3.2 Forensic Accounting and Financial Integrity in the Public Sector

Forensic accounting plays an essential role in promoting financial integrity within Nigeria's public sector by fostering transparency, accountability, and compliance. Transparency is a foundational principle for credible public financial management, and forensic accounting enhances it by identifying and addressing financial irregularities (Adebisi, 2016; Omar, 2013). In a system where excessive government spending and financial mismanagement remain prevalent, legislators and stakeholders are increasingly concerned about the efficient utilization of public funds (Okoye & Gbegi, 2013). Forensic accountants, equipped with investigative and analytical skills, contribute significantly to this process by examining financial records, detecting anomalies, and gathering evidence to support fraud investigations. Their ability to uncover illegal activities and recommend corrective measures ensures that financial discipline is upheld across public institutions.

The efficiency of the public sector is directly linked to national development, particularly in areas of resource allocation and economic stability. However, the Nigerian public sector continues to grapple with governance challenges, systemic corruption, and persistent financial mismanagement, which weaken institutional performance (Anyim et al., 2013; Imhonopi & Urim, 2013). Despite the existence of financial regulatory policies and oversight bodies, accountability remains weak, as enforcement mechanisms are often undermined by bureaucratic inefficiencies and a lack of political will (Anyim et al., 2013). As Adeyemo and Salami (2008) observed, widespread fraud, inefficiency, and weak internal controls hinder service delivery, while Imhonopi and Urim (2013) argue that entrenched corruption has further exacerbated governance failures in the sector. This situation highlights the urgent need for robust forensic accounting practices to reinforce accountability and restore public confidence in financial governance.

In light of these challenges, forensic accounting provides a strategic and proactive solution to improving financial integrity in the Nigerian public sector. Its adoption strengthens financial oversight by introducing effective fraud detection mechanisms, data-driven analysis, and real-time monitoring of transactions. Through the implementation of forensic techniques such as digital forensic investigations, data analytics, and fraud risk management frameworks, public institutions are better equipped to detect irregularities and ensure regulatory compliance (Okoye & Gbegi, 2013). Furthermore, forensic accounting supports anti-corruption initiatives by providing verifiable evidence for litigation and enforcement actions, thereby enhancing institutional integrity. In a country where corruption continues to undermine governance, forensic auditors serve as key agents in promoting financial transparency and accountability. Strengthening the capacity of forensic accountants and institutionalizing forensic practices across public agencies are, therefore, critical steps toward building a transparent, efficient, and credible financial system in Nigeria

2.3.3 Modern Forensic Accounting Techniques for Promoting Financial Integrity

The evolution of forensic accounting has introduced modern approaches that incorporate advanced technological tools, data analytics, and specialized methodologies to enhance the detection and prevention of fraud. These contemporary techniques are particularly relevant in addressing fraudulent activities within public sector organizations, where financial mismanagement and corruption are prevalent. In Nigeria, the relevance of forensic accounting has increased as the need to curb financial crimes, such as embezzlement and misappropriation of public funds, has become more pressing.

Data Analytics and Digital Forensic Tools: One of the most significant advancements in forensic accounting is the use of data analytics, which employs sophisticated software to analyze large datasets for patterns, anomalies, or outlier's indicative of fraudulent activity. Forensic accountants apply data mining techniques to financial records, procurement data, and government expenditure reports to uncover discrepancies such as unusual transactions, inflated contracts, or inconsistent financial reporting. Tools such as Audit Command Language (ACL) Analytics, Interactive Data Extraction and Analysis (IDEA), and Excel's Power Business Intelligence (Power BI) facilitate comprehensive analyses that reveal hidden fraud or financial mismanagement. In Nigeria, where corruption is pervasive, these tools Analysis can enable forensic accountants to detect irregularities quickly and accurately, thereby preventing further fraudulent activities. (Hossain, 2023; Akinbowale et al., 2021).

Artificial Intelligence (AI) and Machine Learning: Artificial Intelligence (AI) and machine learning have become integral components of modern forensic accounting. These technologies automate repetitive tasks, analyze vast amounts of data in real time, and develop predictive models that forecast potentially fraudulent activity based on historical data (Aziz & Andriansyah, 2023). In the Nigerian public sector, AI tools can continuously monitor financial transactions and instantly identify suspicious activity. Machine learning algorithms refine their predictions based on past fraud cases, improving the accuracy of fraud detection. For example, AI-powered systems can monitor public sector spending patterns and flag transactions that deviate from standard practices. The integration of AI into forensic accounting processes enhances efficiency by reducing the time spent on manual investigations and increasing the precision of fraud detection, thereby ensuring the proper accountability of public funds.

Blockchain Technology: Blockchain technology, known for its secure and immutable nature, is increasingly being adopted in forensic accounting to enhance financial transparency and accountability. In Nigeria's public sector, where mismanagement of funds and lack of transparency are significant concerns, blockchain can be used to create an incorruptible record of all financial transactions. Each transaction within a public sector organization can be recorded on a blockchain ledger, making it nearly impossible to alter or falsify records undetected. By leveraging blockchain, forensic accountants in Nigeria can track the flow of public funds in real time, ensuring that allocated resources are not misappropriated. The transparency provided by blockchain technology plays a crucial role in reducing corruption and improving public trust in government institutions.

Electronic Auditing Tools: The advancement of digital accounting systems has led to the development of electronic auditing tools that forensic accountants use to assess the integrity of financial data. In Nigerian public sector organizations, where traditional paper-based auditing methods are susceptible to manipulation and inefficiencies, electronic auditing systems such as Audit Command Language (ACL) and Teammate enhance audit quality and efficiency. These tools facilitate continuous auditing, offering a real-time assessment of the financial health of public organizations and identifying fraud risks at an early stage. By integrating these electronic tools with existing financial systems, forensic accountants can automate the auditing process, ensuring that all transactions are systematically tracked and assessed for signs of fraud.

Benford's Law Analysis: This technique helps forensic accountants detect anomalies in numerical data by analyzing the frequency distribution of digits in financial records. According to Nigrini (2012), Benford's Law states that in many naturally occurring datasets, lower digits (such as 1, 2, and 3) appear more frequently as the leading digits. Fraudulent financial statements often deviate from this expected distribution, thus making Benford's Law an effective tool in identifying manipulated financial figures. In the Nigerian public sector, where corruption and financial mismanagement are persistent concerns, this technique can reveal irregularities in budget allocations, public contracts, and disbursement records, assisting forensic accountants in identifying potential fraud.

Fraud Risk Management Frameworks: A key aspect of modern forensic accounting is the implementation of fraud risk management frameworks that assess an organization's vulnerability to fraudulent activities. These frameworks evaluate internal and external risk factors, such as weak internal controls, employee behaviour, and political influences that could foster financial misconduct **(**Deloitte 2019)**.** In Nigeria, these frameworks can assist forensic accountants to conduct risk assessments, allowing them to identify potential fraud risks and design strategies for mitigation. The incorporation of fraud risk management into daily operations enables forensic accountants to implement proactive measures such as establishing strong internal controls, enhancing transparency, and fostering an ethical organizational culture.

Whistleblower Protection Systems: An increasingly utilized tool in forensic accounting is the establishment of whistleblower protection systems, which encourage employees to report fraudulent activities without fear of retaliation. In Nigeria, where corruption remains widespread, these systems provide a crucial safeguard against fraud. By offering anonymous reporting channels, forensic accountants can act on insider information provided by employees who may otherwise be reluctant to come forward due to fear of reprisal. The integration of whistleblower protection mechanisms into forensic accounting practices ensures that fraudulent activities are flagged early and investigated thoroughly, thereby deterring fraudulent behaviour and enhancing financial accountability in the public sector (Hwang et al., 2008).

Forensic accounting holds significant relevance in Nigeria’s public sector, where weak governance structures, inadequate accountability, and poor oversight have historically created a fertile ground for fraudulent activities. Contemporary forensic accounting techniques are essential in addressing these challenges, as they provide effective tools for investigating, detecting, and preventing financial crimes. In addition, the integration of fraud risk management frameworks and whistleblower protection systems supports a proactive stance against fraud. These mechanisms not only facilitate the detection of irregularities but also serve as preventive measures, reducing the likelihood of fraudulent activities before they occur. This holistic approach to fraud management shifts the focus from reactive enforcement to preventive oversight. By leveraging these tools, public institutions in Nigeria can enhance financial oversight, strengthen fraud detection capabilities, and promote greater accountability in the use of public funds. The widespread adoption of forensic accounting practices is, therefore, essential in mitigating corruption and financial mismanagement, ultimately safeguarding the integrity of Nigeria’s public financial systems

2.4 Empirical Review:

Vutumu et al. (2025) investigated the combined roles of forensic accounting and internal controls in fraud prevention within Nigeria’s public sector. Using the COSO framework and Fraud Pentagon Model, the study analyzed data from 385 professionals in finance, accounting, audit, and forensic fields. Findings indicated moderate internal control effectiveness, with strong control activities but weaker risk assessment and communication practices. Forensic accounting significantly contributed to fraud prevention, though tools like whistleblower systems and litigation support were underutilized. The study recommends strengthening governance frameworks, investing in digital fraud detection, and promoting ethical leadership.

Obadiah and Ibrahim (2024) examined the role of forensic accounting skills in preventing financial fraud in Nigeria's Ministries, Departments, and Agencies (MDAs). Using a survey design, data were obtained from 164 respondents across 82 MDAs and analyzed through cross-sectional regression. The findings revealed that investigative, auditing, legal, litigation, analytical, and technical skills significantly influence fraud detection. However, ethical skills showed no significant relationship with fraud detection, suggesting that forensic accounting skills play a vital role in mitigating financial fraud in MDAs.

Harjuni (2024) explored the application of forensic accounting in detecting and preventing fraud in financial institutions. Using a literature review and case study analysis, the study found that forensic accounting enhances fraud detection, reduces financial losses, and ensures regulatory compliance. It highlighted the role of emerging technologies, such as artificial intelligence and machine learning, in strengthening forensic accounting's effectiveness. Ogbaini et al. (2024) investigated forensic accounting's role in fraud detection within the Lagos State Government. The study, which surveyed 60 certified accountants, found minimal forensic accounting adoption, with no dedicated forensic accounting department. It recommended the establishment of forensic accounting offices across government levels and regular training programs to enhance fraud detection and prevention strategies.

Eghe-Ikhurhe et al. (2024) assessed forensic accounting's role in fraud prevention in Nigerian microfinance institutions using a qualitative approach. Findings showed that forensic accounting enhances institutional integrity and boosts investor confidence. The study emphasized the increasing importance of advanced technological tools such as data analytics, artificial intelligence, and blockchain in forensic accounting procedures. Garba (2024) examined forensic accounting's impact on fraud detection in deposit money banks in Benue State using binary logistic regression. The findings revealed that engaging forensic accountants significantly increased fraud detection likelihood. However, litigation support skills showed limited effectiveness. The study recommended integrating forensic accountants into internal audit processes and continuous professional training.

Ariyo-Edu & Woli-Jimoh (2024) explored forensic accounting in fraud detection in Kwara State's public sector, surveying 100 accountants and auditors. Findings indicated a shortage of specialized forensic personnel, with traditional auditors handling fraud investigations. Data mining and ratio analysis were found effective in fraud detection, leading to recommendations for an autonomous forensic accounting agency and advanced technological integration. Boyelayefa (2021) explored forensic audit as a tool for fraud detection in Nigeria's public sector, applying the Donald Cressey fraud triangle theory. A quasi-experimental survey of 23 federal ministries in Rivers State employed multiple regression analysis. The study found that litigation support services, investigative accounting, and forensic audit reports positively influenced fraud detection. It recommends the integration of forensic audit techniques to enhance fraud detection strategies in public institutions.

Alhassan (2021) empirically analyzed the relationship between forensic accounting and fraud detection in Nigerian ministries through a survey design. Data were collected from 50 auditors and accountants in ten ministries within the Federal Capital Territory (FCT), Abuja. The study employed analysis of variance (ANOVA) and found a significant effect of forensic accounting on fraud prevention, reinforcing its importance in curbing fraudulent activities in government institutions. Oladipo & Olurotimi (2021) examined forensic accounting as a tool for fraud prevention and detection in Nigerian MDAs, employing the Policeman Theory, White-Collar Theory, and Fraud Diamond Theory. A cross-sectional survey covering 2010–2020 used regression analysis to test hypotheses. The results confirmed a significant positive relationship between forensic accounting and fraud prevention. The study recommends incorporating forensic accounting into internal control systems for enhanced fraud mitigation.

Afriyie et al. (2021) examined forensic accounting knowledge relevant to fraud detection and prevention. The study provided empirical evidence supporting the significance of forensic accounting techniques in reducing financial fraud risks, highlighting the need for professional training and forensic expertise in financial oversight functions. Okoye and Mbanugo (2020) assessed the role of forensic accounting in fraud detection and prevention within tertiary institutions in Southeast Nigeria. The study demonstrated that forensic accounting techniques, including investigative accounting and forensic audits, significantly contribute to minimizing fraud in academic institutions, advocating for their integration into financial management practices.

Eze and Okoye (2019) investigated the effects of forensic accounting on fraud prevention in the Nigerian public sector, focusing on Imo State. Using descriptive statistics and regression analysis, the study established that forensic accounting measures positively influence fraud prevention, recommending the institutionalization of forensic auditing in public financial management to strengthen accountability and transparency. Abdulrahman (2019) examined forensic accounting and fraud prevention in the Nigerian public sector using secondary data. The study found a significant positive influence of forensic accounting techniques on fraud prevention, emphasizing the need for a robust legal framework to enhance enforcement. It recommended increased government action to integrate forensic accounting in fraud prevention measures for better financial accountability.

The reviewed literature collectively underscores the indispensable role of forensic accounting in fraud detection and financial integrity within the Nigerian public sector. Studies highlight that forensic accounting skills, internal control measures, and advanced technological applications significantly enhance fraud prevention. However, challenges such as inadequate forensic personnel, underutilization of whistleblower systems, and weak governance structures persist. Strengthening forensic accounting practices, investing in emerging fraud detection technologies, and reinforcing regulatory frameworks remain essential strategies for improving financial transparency and accountability in Nigeria’s public sector.

3.0 Methodology

This study adopts a qualitative research approach, focusing on a systematic review of literature and conceptual analysis to examine the role of forensic accounting in fraud detection and financial integrity within the public sector in Nigeria. The research relies on secondary data sources, including peer-reviewed journals, books, institutional reports, and regulatory frameworks on forensic accounting and fraud prevention.

A thematic analysis was conducted to identify recurring trends, patterns, and emerging insights from existing literature. This involves synthesizing findings on forensic accounting techniques, fraud detection mechanisms, and financial integrity measures in the public sector organizations. Additionally, the study incorporates a comparative case study approach, evaluating forensic accounting applications in Nigeria and other jurisdictions to highlight global best practices. The research is anchored on relevant theories to provide a foundation for understanding fraud dynamics in public institutions

4.0 Discussion of Findings

This study explored the role of forensic accounting in fraud detection and the promotion of financial integrity within the Nigerian public sector. Drawing upon literature and conceptual insights, the findings revealed that forensic accounting has emerged as a vital mechanism for enhancing transparency, uncovering financial irregularities, and strengthening accountability in public financial management. However, the practical implementation of forensic accounting remains uneven across government institutions, largely due to structural inefficiencies, low adoption of forensic techniques, and systemic corruption.

A central finding of this study is the capacity of forensic accounting to detect and prevent fraudulent activities within public institutions. Scholars such as Abdulrahman (2019) and Okoye and Gbegi (2013) underscore the significance of forensic accounting in curbing financial crimes through investigative analysis and the application of specialized audit tools. These findings are consistent with global perspectives (Wells, 2017; Kranacher et al., 2010), which highlight that forensic audit are not only retrospective in nature but also serve as deterrents against future fraud. In Nigeria however, the limited institutionalization of forensic accounting within the public sector weakens its potential impact. As noted by Vutumu at al., (2025), a lack of structured forensic audit frameworks and political interference often impede the full application of forensic procedures, particularly in ministries and parastatals.

Another key insight is the relevance of forensic accounting in promoting financial integrity by reinforcing anti-corruption frameworks. The reviewed literature consistently emphasizes that forensic accounting supports ethical financial reporting and exposes malpractices such as misappropriation of funds, procurement fraud, and payroll padding (Imhonopi & Urim, 2013; Okoye & Gbegi, 2013). In Nigeria, where accountability deficits persist, the integration of forensic accounting has been shown to support systemic reforms, especially when paired with whistleblower protections and effective fraud risk management systems. These mechanisms offer a preventive approach, shifting the focus from reactive audit measures to continuous monitoring and control. Nonetheless, as Alhassan (2021) points out, the success of these frameworks is largely contingent on political will and the independence of oversight institutions.

The findings further affirm that forensic accounting role in supporting legal actions and regulatory enforcement. Forensic accountants provide credible, evidence-based documentation that links individuals or departments to financial misconduct. Their expert testimony is critical in prosecuting fraud cases and reinforcing the rule of law. This aligns with Murphy and Dacin's (2011) assertion that forensic accounting bridges the gap between financial investigation and litigation. In the Nigerian public sector, where fraud is frequently shielded by political influence, the objectivity and technical expertise of forensic auditors are indispensable for ensuring that financial crimes are not only detected but effectively prosecuted. However, the lack of forensic training among public sector auditors and resistance from vested interests remain significant obstacles.

In summary, the findings of this study indicate that forensic accounting holds substantial potential in enhancing fraud detection and safeguarding financial integrity within the Nigerian public sector. While the theoretical and applied benefits of forensic practices are well established, their impact is often limited by governance weaknesses, inadequate adoption, and institutional inertia. A stronger commitment to professional capacity building, policy enforcement, and anti-corruption reform is necessary to fully leverage the benefits of forensic accounting. The study therefore supports the growing consensus that forensic accounting should be mainstreamed into Nigeria's public financial management framework as a strategic tool for transparency, accountability, and sustainable governance.

5.0 Conclusion, Implications and Recommendations

This study has examined the critical role of forensic accounting in enhancing fraud detection and promoting financial integrity within the Nigerian public sector. The findings highlight that forensic accounting serves not only as a reactive tool for investigating financial crimes but also as a proactive mechanism for preventing fraud, strengthening internal controls, and reinforcing ethical financial practices. In an environment marked by weak governance, systemic corruption, and inefficient oversight mechanisms, the application of forensic accounting techniques is both timely and essential.

The integration of forensic accounting into public sector operations offers strategic benefits, including the early detection of financial irregularities, support for legal prosecution of fraud-related cases, and promotion of transparency and accountability. However, the effectiveness of forensic accounting is often limited by structural and institutional challenges such as lack of technical expertise, insufficient legal backing, and political interference. To maximize its impact, Nigeria must commit to building institutional capacity, enforcing regulatory frameworks, and embedding forensic accounting practices within the broader public financial management system.

Ultimately, strengthening the role of forensic accounting in Nigeria's public sector will contribute significantly to curbing corruption, improving governance, and fostering public trust. It is therefore imperative for policymakers, anti-corruption agencies, and public finance managers to prioritize the adoption and institutionalization of forensic accounting as a core component of Nigeria's public sector reform agenda.

Implications

The findings of this study present several important implications for policy, practice, and future research within the context of Nigeria's public sector financial management.

1. The integration of forensic accounting practices into public sector institutions has the potential to transform the current landscape of fraud detection by shifting from reactive audits to proactive financial oversight. This suggests that government agencies and anti-corruption bodies must institutionalize forensic accounting units equipped with modern investigative tools and skilled personnel to enhance early detection and prevention of fraud.
2. The study underscores the need for capacity building and professional development among public sector accountants, internal auditors, and compliance officers. Investing in forensic accounting education and certifications would ensure that financial professionals possess the technical competencies required to conduct thorough investigations and support litigation processes effectively. Additionally, reforming recruitment and promotion processes to prioritize ethics and integrity will further strengthen accountability frameworks.
3. At the policy level, there is a pressing need for legislation that mandates forensic audits in ministries, departments, and agencies (MDAs), particularly those with histories of financial abuse. Such legislation should also provide clear guidelines for whistleblower protection, independent oversight, and inter-agency collaboration. Strengthening these areas would reduce institutional vulnerabilities and create an enabling environment for the effective implementation of forensic practices.
4. The findings imply that future research should explore the practical challenges associated with implementing forensic accounting in Nigeria, including resistance from within institutions, political interference, and funding limitations. Longitudinal and sector-specific studies could provide further insights into the long-term impact of forensic accounting on public sector governance and fiscal transparency.

Recommendations

Based on the findings of this study, the following recommendations are proposed to enhance the application of forensic accounting in fraud detection and the promotion of financial integrity within Nigeria's public sector:

1. Institutionalize Forensic Accounting Units Across MDAs: Government ministries, departments, and agencies (MDAs) should establish dedicated forensic accounting units tasked with investigating financial discrepancies, monitoring compliance, and supporting anti-fraud efforts. These units should operate independently of the traditional audit departments to ensure objectivity.
2. Strengthen Legal and Regulatory Frameworks: Legislative backing should be provided to enforce the mandatory use of forensic audits in public institutions, particularly those handling large-scale procurement and disbursement of public funds. Such laws should also provide protection for whistleblowers and clearly define penalties for financial misconduct.
3. Build Capacity Through Professional Training and Certification: Public sector accountants, auditors, and compliance officers should undergo specialized training in

forensic accounting techniques. Government agencies should collaborate with professional bodies and institutions to develop certification programs tailored to public financial management and fraud investigation.

4. Promote a Culture of Transparency and Accountability: Leadership in public institutions should demonstrate commitment to ethical conduct and transparency. This can be achieved through the enforcement of internal controls, regular publication of financial reports, and engagement with civil society and oversight bodies.
5. Adopt Technology-Driven Forensic Tools: Modern forensic accounting relies heavily on data analytics, digital auditing tools, and automated risk assessment systems. The Nigerian public sector should invest in such technologies to improve the accuracy, speed, and effectiveness of financial investigations.
6. Encourage Inter-Agency Collaboration: Forensic accounting efforts should be coordinated among key institutions such as the Office of the Auditor-General, EFCC, ICPC, professional bodies (ICAN; ANAN) and the Financial Reporting Council. Collaborative platforms will improve information sharing, reduce duplication of efforts, and enhance investigative outcomes.
7. Enhance Monitoring and Evaluation Mechanisms: Regular assessment of forensic accounting practices within the public sector is necessary to identify areas of improvement and measure their impact on fraud reduction. Independent evaluations and feedback mechanisms should be integrated into existing audit frameworks.

References:

Abdullahi, R., Mansor, N., & Nuhu, M. S. (2015). Fraud triangle theory and fraud diamond theory: Understanding the convergent and divergent for future research. *International Journal of Academic Research in Accounting, Finance and Management Sciences*, *5*(4), 38–45. https://doi.org/10.6007/IJARAFMS/v5-i4/1823

Abdulrahman, S. (2019). Forensic accounting and fraud prevention in Nigerian public sector: A conceptual paper. *International Journal of Accounting & Finance Review*, *4*(2), 13–21. https://doi.org/10.46281/ijafr.v4i2.389

Adebisi, J.F., Matthew, O. B. & Emmanuel, Y.V. (2016). The impact of forensic accounting in fraud detection and prevention: Evidence from Nigerian public sector. *International Journal of Business Marketing and Management (IJBMM)*, *1*(5), 34-41

Afriyie, S. O., Akomeah, M. O., Amoakohene, G., Ampimah, B. C., Oclooc, C. E., & Kyei, M. O. (2021). Forensic accounting: A novel paradigm and relevant knowledge in fraud detection and prevention. *International Journal of Public Administration*, *46*(5), 615–624. https://www.tandfonline.com/loi/lpad20

Agbo, E. I., & Obodoekwe, E. (2020). Correlation of forensic accounting practice with fraud control and corporate governance in Nigerian banks. *Academic Journal of Current Research*, *7*, 128–144.

Akai, N., D., Ibok, I., & Akinninyi, P., E. (2023). Cloud accounting and the quality of financial reports of selected banks in Nigeria. *European Journal of Accounting, Auditing and Finance Research*, *11*(9), 18-42.

Akinbowale, O. E., Klingelhöfer, H. E., & Zerihun, M. F. (2021). The integration of forensic accounting and the management control system as tools for combating cyberfraud. Academy of Accounting and Financial Studies Journal, 25(2): 1-14.

Akrokiasamy, L., & Cristal, L. T. (2009). Forensic accounting: An investigative tool in fraud detection. *The Chartered Institute of Management Accountants Journal*, *7*(1), 25–34.

Albrecht, W. S., & Romney, M. B. (1984). *Auditing*. South-Western Publishing.

Albrecht, W. S., Albrecht, C. C., Albrecht, C. O., & Zimbelman, M. F. (2010). *Fraud examination* (4th ed.). South-Western Cengage Learning.

Albrecht, W. S., Albrecht, C. O., & Albrecht, C. C. (2004). *Fraud examination*. South-Western College Pub.

Albrecht, W. S., Albrecht, C. O., Albrecht, C. C., & Zimbelman, M. F. (2019). *Fraud examination* (6th ed.). Cengage Learning.

Albrecht, W. S., Howe, K. R., & Romney, M. B. (1984). *Deterring fraud: The internal auditor's perspective*. Institute of Internal Auditors Research Foundation.

Alhassan, I. (2021). Forensic accounting and fraud detection and prevention in the Nigerian public sector. *International Journal of Empirical Finance and Management Sciences, 3*(1), 12–22.

Amaefule, L. I., Okoye, E. I., & Umeaka, E. C. (2017). Economic and Financial Crimes Commission (EFCC) and performance of banks in Nigeria: An impact assessment. *Journal of Social Sciences and Public Policy*, *9*, 55–90.

Amah, F. U. (2023). Effectiveness of forensic accounting in curbing financial crimes in the Nigerian public sector. *Finance & Accounting Research Journal*, *5*(1), 1–17. https://doi.org/10.51594/farj.v5i1.431

Anyim, F. C., Ufoma, I. E., & Olusanya, O. A. (2013). Ethics and professionalism in Nigeria's public service: Issues and prospects. *Journal of Public Administration and Governance*, *3*(1), 1–11. https://doi.org/10.5296/jpag.v3i1.3013

Ariyo-Edu, A. A., & Woli-Jimoh, I. A. (2024). Forensic accounting and public sector fraud in Kwara State Nigeria. *Fuoye Journal of Accounting and Management*, *7*(1), 251–272.

Arslan, M. (2020). *The role of forensic accounting in legal investigations*. Tamansiswa Accounting Journal International, 15(1), 153–167.

Asogwa, I. E. (2014). The use of forensic in Fraud Detection and control. *International Journal of Research in Management*, 5(4), 61–71

Association of Certified Fraud Examiners. (2014). *Report to the nations on occupational fraud and abuse: 2014 global fraud study*. ACFE. https://www.acfe.com

Association of Certified Fraud Examiners. (2020). *Report to the nations: 2020 global study on occupational fraud and abuse*. https://www.acfe.com/report-to-the-nations/2020/

Avortri, S., & Agbanyo, R. (2021). A synthesis of the fraud diamond theory for assessing occupational fraud in the Ghanaian public sector. *International Journal of Academic Accounting, Finance & Management Research (IJAAFMR)*, *5*(1), 23–39.

Aziz, L. A. R. & Andriansyah, Y. (2023). The Role Artificial Intelligence in Modern Banking: An Exploration of AI-Driven Approaches for Enhanced Fraud Prevention, Risk Management, and Regulatory Compliance. *Reviews of Contemporary Business Analytics*, *6*(1): 110-132.

Beasley, M. S., Carcello, J. V., Hermanson, D. R., & Neal, T. L. (2010). The audit committee oversight process. *Contemporary Accounting Research*, *26*(1), 65–122. https://doi.org/10.1506/car.26.1.3

Boyelayefa, B. (2021). Forensic audit as a tool for fraud detection in the public sector in Nigeria. *International Journal of Advanced Academic Research (Social and Management Sciences)*, *7*(5), 69–85.

BudgIT Nigeria. (2022). *Nigeria's oil and gas revenue: Missing billions and financial opacity in NNPC*. https://yourbudgit.com

Button, M., Johnston, L., & Frimpong, K. (2007). Fighting fraud: The case for a national fraud strategy. *Criminal Justice Matters*, *67*(1), 14–15. https://doi.org/10.1080/09627250708553142

Coenen, T. L. (2008). *Essentials of forensic accounting*. Wiley.

Cressey, D. R. (1953). *Other people's money: A study in the social psychology of embezzlement*. Free Press.

Crumbley, D. L., Heitger, L. E., & Smith, G. S. (2007). *Forensic and investigative accounting* (3rd ed.). CCH Incorporated.

Dada, S. O., & Jimoh, F. B. (2020). Forensic accounting and financial crimes in Nigerian public sector. *Journal of Accounting and Taxation*, *12*(2), 118–125. https://doi.org/10.5897/jat2020.0417

Davis, C., & Farrell, R. (2017). *Fraud detection using data analytics: A practitioner's guide*. Journal of Forensic & Investigative Accounting, 9(2), 234–245.

Deloitte (2019) Fraud risk management. Deloitte Insights. https://doi.org/10.1108/DELOITTE-01-2019-0003

Dhar, P. and Sarkar, A. (2010): Forensic accounting: Accountant's vision. *Vidyasagar University J.Commerce*, 15(3): 93-104

Dorminey, J., Fleming, A. S., Kranacher, M. J., & Riley, R. A. (2012). The evolution of fraud theory. *Issues in Accounting Education*, *27*(2), 555–579. https://doi.org/10.2308/iace-50131

Economic and Financial Crimes Commission (EFCC). (2021). *Pension fraud investigation report*. https://efcc.gov.ng

Effiong, E. J. (2012). Forensic accounting education: An exploration of level of awareness in developing economies—Nigeria as a case study. *International Journal of Business and Management*, *7*(4), 26.

Efut, M. R., & Okoye, E. (2019). Empirical analysis of the relevance of forensic accounting as panacea to fraud detection and prevention in Nigeria. *EPRA International Journal of Multidisciplinary Research*, *5*(2), 61–66.

Eghe-Ikhurhe, G. O., Roni, N. N., & Osei-Assibey Bonsu, M. (2024). Forensic accounting in fraud detection and prevention: A qualitative investigation of microfinance institutions. *International Journal of Management, Economics and Social Sciences*, *13*(3–4), 116–133. https://www.ijmess.com.

Egiyi, M. A. (2022). Forensic accounting as a tool for fraud detection and prevention in business organisations. *International Journal of Economics and Public Policy*, *6*(1), 12–18. https://doi.org/10.5281/zenodo.7724981

Enofe, A. O., Okpako, P. O., & Atube, E. N. (2013). The impact of forensic accounting on fraud detection. *European Journal of Business and Management*, *5*(26), 61–73.

Enofe, A. O., Olorunnuho, M. S., & Eboigbe, K. O. (2015). Accountants' perception of forensic accounting and fraud investigation. *Journal of Accounting and Financial Managemen*, *1*(8), 94–111.

Eze, E., & Okoye, E. I. (2019). Forensic accounting and fraud detection and prevention in Imo State public sector. *International Accounting and Taxation Research Group*, *3*(1), 12–26.

Garba, A.. (2024). Impact of forensic accounting on fraud detection in Nigerian deposit money banks. *Journal of Advance Research in Business, Management and Accounting*, *10*(2), 16-30. https://doi.org/10.61841/pm035a38

Harjuni, J. (2024). The role of forensic accounting in fraud detection and prevention in financial institutions. *Tamansiswa Accounting Journal International*, *15*(1), 151–159.

Herbert, W. E., Tsegba, I. N., Ene, E. E., & Onyilo, F. (2017). The rise of fraud examination and forensic accounting in Africa: The Nigerian experience. *Archives of Business Research*, *5*(4), 1-18

Hogan, C. E., Rezaee, Z., Riley, R. A., & Velury, U. K. (2008). Financial statement fraud: Insights from the academic literature. *Auditing: A Journal of Practice & Theory*, *27*(2), 231–252. https://doi.org/10.2308/aud.2008.27.2.231

Homer, E. M. (2020). Testing the fraud triangle: A systematic review. *Journal of Financial Crime*, *27*(1): 172-187.

Hossain, M. Z. (2023). Emerging trends in forensic accounting: data analytics, cyber forensic accounting, cryptocurrencies, and blockchain technology for fraud investigation and prevention. Cyber Forensic Accounting, Cryptocurrencies, and Blockchain Technology for Fraud Investigation and Prevention.

Hwang, D., Staley, B., Te Chen, Y., & Lan, J. S. (2008). Confucian culture and whistle-blowing by professional accountants: an exploratory study. Managerial Auditing Journal, 23(5): 504-526.

Idris, O. A. (2017). Forensic accounting and financial fraud in Nigeria: Problems and prospects. Journal of Accounting and Financial Management. *3*(1), 23 - 33

Ikpe, O. E., & Uwah, U. E. (2023). The role of forensic accounting in bridging the audit expectation gap of microfinance banks in Akwa Ibom State. *AKSU Journal of Accounting and Corporate Governance,* *3*(2), 49–62. https://doi.org/10.61090/aksujacog.2023.005

Imagbe, V. U., Abiloro, T.O., Saheed, G.A. (2020). Fraud diamond and financial crimes in Nigerian banking industries, *International Journal of Academic Research in Accounting, Finance and Management Sciences* *9*(4), 294-303

Imhonopi, D., & Urim, U. M. (2013). Leadership crisis and corruption in the Nigerian public sector: An albatross of national development. *The African Symposium*, *13*(1), 78–87.

Kaur, R., Sood, G., & Grima, S. (2023). *Forensic accounting and its impact on financial fraud*. Journal of Financial Crime, 30(2), 489–502.

KPMG. (2010). *Global fraud survey: Growing beyond*. KPMG International.

Kranacher, M. J., Riley, R. A., & Wells, J. T. (2010). *Forensic accounting and fraud examination*. John Wiley & Sons.

Lawan, Y., Abba, M., & Suleiman, N. (2018). Influence of forensic accounting practices on fraud prevention among listed companies in Nigeria. *Journal of Accounting, Auditing and Taxation*, *2*, 18–24.

Mike, M. E., Okpe, J. U., & Abu, S. O. (2022). Forensic accounting investigation techniques and financial crimes reduction in Nigerian public sector: A case study of anti-graft agencies (EFCC, ICPC and CCB) in Nigeria. *Archives of Business Research*, *10*, 186–206.

Mukoro, D. O., Yamusa, O., & Faboyede, S. O. (2013). The role of forensic accountants in fraud detection and national security in Nigeria. *Change and Leadership Journal*, *17*, 90–106.

Murphy, P. R., & Dacin, M. T. (2011). Psychological pathways to fraud: Understanding and preventing fraud in organizations. *Journal of Business Ethics, 101*(4), 601–618. https://doi.org/10.1007/s10551-011-0741-0

Mustafa Alastal, M., Ahmed Ali, M., & Allaymoun, M. (2024). Integrating forensic accounting into corporate governance frameworks. *Journal of Financial Control and Accountability*, 12(1), 66–80.

Nigrini, M. J. (2012). *Benford's Law: Applications for forensic accounting, auditing, and fraud detection*. John Wiley & Sons.

Obadiah, T., G & Ibrahim, A. (2024). Financial Fraud Detection in Ministries, Departments and Agencies (MDAs) in Nigeria: The Role of Forensic Accounting Skills. *International Journal of Research and Innovation in Social Science (IJRISS), 8*(8) 2912- 2936. www.rsisinternational.org

Office of the Auditor-General for the Federation. (2022). *Annual audit report on the accounts of the federation of Nigeria*. https://oaugf.ng

Ogbaini, A. C., Akpor, A. A., Oboh, R., Oputa, J. E., & Marvis, V. B. (2024). The role of forensic accounting in fraud detection and prevention in the Nigerian public sector: A case study of Lagos, Nigeria. *Pedagogik: Jurnal Pendidikan, 19*(1), 71–83. https://doi.org/10.33084/pedagogik.v19i1.7005

Ogunode, O. A., & Dada, S. O. (2022). Fraud prevention strategies: An integrative approach on the role of forensic accounting. *Archives of Business Research, 10*(7), 34–50. https://doi.org/10.14738/abr.107.12613

Okoye, E. I., & Gbegi, D. O. (2013). Forensic accounting: A tool for fraud detection and prevention in the public sector. (A study of selected ministries in Kogi State). *International Journal of Academic Research in Business and Social Sciences, 3*(3), 1–19.

Okoye, K., & Mbanugo, C. I. (2020). Forensic accounting tool for fraud detection and prevention in the public tertiary institutions in Southeast Nigeria. *European Journal of Education Studies, 7*(10), 323–334.

Oladipo, O. N., & Olurotimi, A. S. (2021). Forensic accounting as a tool for fraud detection and prevention in public sector: Moderating on MDAs. *International Business Management, 15*(1), 1–8.

Omar, N. (2013). Fraud detection and prevention methods in the Malaysian public sector: Accounts perspective. *American International Journal of Contemporary Research, 3*(5), 71–76.

Oyerogba, E. O. (2021). The role of forensic accounting in fraud prevention in the Nigerian public sector. *International Journal of Finance and Accounting, 10*(1), 1–8. https://doi.org/10.5923/j.ijfa.20211001.01

Özkul, F. U., & Pamukcu, A. (2012). Fraud detection and forensic accounting. *International Journal of Business and Social Science, 3*(20), 111–117.

Peterson, B. (2003). *Enron and the new forensic accounting landscape*. Journal of Forensic Accounting, 4(3), 123–136.

Popoola, O. M. J., Ahmad, A. C., Samsudin, R. S., & Hartini, A. (2013). Forensic accountants and litigation support skills. *International Journal of Business and Management, 8*(10), 87–95. https://doi.org/10.5539/ijbm.v8n10p87

Rasey, M. (2009). History of forensic accounting. *International Journal of Accounting Research*, 2(1), 22–30. http://www.ehow.com/about_5005763_history-forensic-accounting.html.

Rasheed, O. A., Sanni, A. A., & Ajiboye, A. I. (2023). The role of the fraud triangle theory in fraud detection and prevention in Nigeria: A forensic accounting perspective. *Journal of Accounting and Financial Management*, *9*(2), 37–49.

Rae, K., & Subramaniam, N. (2008). Quality of internal control procedures: Antecedents and moderating effect on organisational justice and employee fraud. *Managerial Auditing Journal*, *23*(2), 104-124.

Rezaee, Z., Lo, D., Ha, M., & Suen, A. (2016). Forensic accounting education and practice: insights from China. *Journal of Forensic and Investigative Accounting*, *8*(1): 106-119.

Rezaee, Z. (2005). Causes, consequences, and deterrence of financial statement fraud. *Critical Perspectives on Accounting*, *16*(3), 277–298. https://doi.org/10.1016/S1045-2354(03)00072-8

Ruankaew, T. (2016). Beyond the fraud diamond. *International Journal of Business Management and Economic Research (IJBMER)*, *7*(1), 474–476.

Salleh, Z., & Aziz, R. A. (2014). The role of forensic accounting in fraud investigation: Some implications to financial education. *International Journal of Business and Social Science*, *5*(9), 133–138.

Saluja, H., Vasanth, V., & Joshi, M. (2022). Fraud square model: An evolved model for assessing occupational fraud. *Journal of Financial Crime*, *29*(1), 1–18. https://doi.org/10.1108/JFC-01-2021-0012

Singleton, T. W., & Singleton, A. J. (2010). *Fraud auditing and forensic accounting* (4th ed.). John Wiley & Sons.

Skousen, C. J., Smith, K. R., & Wright, C. J. (2009). Detecting and predicting financial statement fraud: The effectiveness of the fraud triangle and SAS No. 99. *Corporate Governance and Firm Performance*, *13*, 53–81.

Smith, R. A. (2016). *The relevance of forensic accounting certifications in professional development*. CPA Journal, 86(6), 22–28.

Sorunke, O. A. (2018). Forensic accounting investigation techniques and successful prosecution of corruption cases in Nigeria. *International Journal of Academic Research in Accounting, Finance and Management Sciences*, *8*(3), 37–44. https://doi.org/10.6007/ijarafms/v8-i3/4450

Suleiman, N., Yahaya, L., & Abba, M. (2018). The perception on public sector corruption (PSC) in Nigeria: An insight from experts in anti-corruption agencies (ACA). *International Journal of Applied Economics, Finance and Accounting*, *2*(2), 60–70. https://doi.org/10.33094/8.2017.2018.22.60.70

Suryanto, T. (2014). *Forensic accounting in Indonesia: A tool for fraud mitigation in public institutions*. International Journal of Government Auditing, 41(3), 45–53.

Transparency International. (2022). *Corruption Perceptions Index 2022*. https://www.transparency.org/en/cpi/2022

Ulucan, A., Erol, M., & Erturk, M. (2012). The development of forensic accounting in global financial systems. *Journal of Accounting and Organizational Change*, *8*(4), 412–425.

Ulucan, A., Ozturk, A., & Ozkan, Y. (2012). Forensic accounting and fraud auditing. *International Journal of Business and Social Science*, *3*(21), 110–114.

Vousinas, G. L. (2019). Advancing theory of fraud: The S.C.O.R.E. model. *Journal of Financial Crime*, *26*(1), 372–381. https://doi.org/10.1108/JFC-12-2017-0128

Vutumu, A. (2024). Building the foundation: Towards a theoretical framework for forensic accounting. *International Journal of Accounting, Finance and Risk Management, 9*, 131–141. https://doi.org/10.11648/j.ijafrm.20240904.12

Vutumu, A., Aregbeyen, O., & Akinteye, A. S. (2025). Internal control and fraud prevention in the Nigerian public sector: A partial least square structural equation modelling approach. *Journal of Financial Risk Management*, *13*(4), 703–729.

Wahyudi, R., Martini, R., Ramadhana, R. N., Sari, K. R., & Amri, D. (2024). Internal controls, investigative audits, and forensic accounting can help prevent fraud. In *Proceedings of the 7th First 2023 International Conference on Global Innovations* (pp. 48–52). Atlantis Press. https://doi.org/10.2991/978-2-38476-220-0_6

Wells, J. T. (2017). *Corporate fraud handbook: Prevention and detection* (5th ed.). John Wiley & Sons.

Wolfe, D. T., & Hermanson, D. R. (2004). The fraud diamond: Considering the four elements of fraud. *The CPA Journal*, *74*(12), 38–42.

Zhuang, J., de Dios, E., & Lagman-Martin, A. (2005). *Governance and institutional quality and the links with economic growth and income inequality: With special reference to developing Asia* (ERD Working Paper No. 97). Asian Development Bank.

Zysman, A. (2004). *Forensic accounting: Its place in today's economy*. Canadian Journal of Forensic Accounting, *1*(1), 1–12.