



## EFFECT OF TAX REFORM ON IT FIRM IN NIGERIA

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### ABSTRACT

To improve the efficacy and efficiency of taxes, tax reforms in Nigeria's information technology (IT) sector are now required. Many people have acknowledged the dynamic implications of these reforms on the growth and functioning of the Nigerian tax system. According to this study, tax reform has a significant positive impact on both the nation's economic growth and the operations of IT companies. The study presents evidence using robust least squares regression on Tax Optimization Metrics (effective tax rate, or ETR, and marginal tax rate, or MTR) against Return on Assets (ROA) by examining secondary data from five ICT companies listed on the Nigerian Stock Exchange (providing services between 2014 and 2023). Evidence regarding the effects of the VAT, Petroleum Profit Tax (PPT), Companies Income Tax (CIT), and Customs and Excise Duties (CED) reforms on revenue generated and GDP in Nigeria was also presented, backed by time-series analyses spanning 2013–2022. According to the findings, ROA for Nigerian IT companies is positively impacted by increases in ETR. On the other hand, ROA has been found to be significantly and negatively impacted by MTR declines. Further analysis shows that whereas VAT had a detrimental impact on Nigeria, PPT and CIT considerably boosted the country's economic growth. Additionally, the change of customs and excise duties had no statistically significant impact on economic growth. The study's conclusions show that tax reforms benefit operations by lowering compliance costs for small and medium-sized enterprises (SMEs) in Nigeria's rapidly expanding IT sector. At the same time, they raise operating expenses.

**Keywords:** Effect, Tax, Performance, Information Technology, Firms

### INTRODUCTION

President Bola Ahmed Tinubu's tax overhaul has changed the way that IT firms view their problems and how high taxes affect them. According to Mustapha, Olalekan, Damilola, Ayobami, and Ngozi (2022), a key component of this is the strengthening and reform of tax systems to promote economic development, which is necessary to finance infrastructure and public services (Ideh, 2019).

Tax reform has become a prominent fiscal policy tool employed by governments to improve public revenue mobilisation, enhance compliance, and stimulate economic growth. In Nigeria, tax reforms have intensified over the past two decades in response to declining oil revenues, with efforts aimed at broadening the tax base, simplifying procedures, and strengthening enforcement mechanisms (Fagbemi et al., 2019).

Particularly in Sub-Saharan Africa, where corruption and bad governance frequently impede efficient tax administration (Herbert, Nwaorgu, & Nwabueze, 2018), the need for tax reform is fueled by changing economic, social, and political environments (Gbeke & Nkak, 2021). The Nigerian tax climate nevertheless poses particular difficulties, notwithstanding the contributions the ICT subsector makes to the country's economy. Unreliable electricity, poor internet connectivity, cyberattacks, regulatory overlaps among government employees and agencies, limited access to long-term capital for innovation and expansion, and a steady increase in brain drain from the migration of highly skilled people abroad are some of the notable issues that impede the operations of ICT firms in Nigeria (Nwaobia & Jayeoba, 2017). The act of changing how the government collects and administers taxes in order to improve tax administration or offer social or economic benefits is known as tax reform (Institute of Development Studies, 2020). Similar to this, the government and its agencies are taking intentional, ongoing steps to change current tax laws and regulations in order to

improve tax administration and collection procedures at a low cost (Tyokoso et al., 2021).

### Statement of the Problem

Notwithstanding Nigeria's continuous tax reforms, the IT industry still faces major obstacles that limit its potential. For IT companies, pre-reform problems include overlapping taxes (such the IT Levy and NASENI Levy), high compliance costs, and uneven enforcement have resulted in tax leaks and decreased operational efficiency. In 2023–2024, for example, the sector's growth slowed from 6.3% to 5.9% year over year due to economic challenges, including cyber threats and poor infrastructure, which were exacerbated by ambiguous tax laws pertaining to digital assets like software licensing and crypto currency.

### Research Objectives

This study's primary goal is to investigate how tax reform affects Nigerian IT companies' operational performance. The precise goals listed below are:

- i. To investigate how Nigerian IT companies' operational performance is impacted by the Company Income Tax reform.
- ii. To ascertain how Nigerian IT companies' operational performance is impacted by the Value Added Tax reform.
- iii. To evaluate the impact of the Petroleum Profit Tax reform on Nigerian IT companies' operational performance.
- iv. To assess how Nigerian IT companies' operational performance is impacted by the Effective Tax Rate.
- v. To look into how Nigerian IT companies' operational performance is affected by the marginal tax rate.

### Research Questions

The investigation is directed by the following research questions, which are informed by the aforementioned objectives:

- i. How has the Company Income Tax Reform affected Nigerian IT companies' operational performance?
- ii. How has the Value Added Tax reform affected Nigerian IT companies' operational performance?
- iii. How has the revision of the Petroleum Profit Tax affected Nigerian IT companies' operational performance?
- iv. How does the Effective Tax Rate affect Nigerian IT companies' operational performance?
- v. How does the Marginal Tax Rate affect Nigerian IT companies' operational performance?

## MATERIALS AND METHODS

### Conceptual Framework

#### The Concept of Tax Reform

According to the Institute of Development Studies (2020), tax reform is the intentional and ongoing process of changing how a government collects, administers, and manages taxes with the dual objectives of increasing administrative effectiveness and producing social or economic benefits for the populace. According to Segun-Oni et al. (2024), it is a tactic to strengthen the current system, boost transparency, and simplify it by altering conventional tax collection and administration techniques. A behavioral component is included by Mijinyawa et al. (2025), who define tax reform as government initiatives to modify current laws and regulations in order to improve administration and collection at the lowest possible cost. The goals of tax changes in Nigeria are to increase voluntary compliance, decrease the tax burden, boost taxpayer confidence, and expand the tax base (Onuselegu & Onuora, 2021). Company Income Tax (CIT), Value Added Tax (VAT), Petroleum Profit Tax (PPT), the adoption of Tax Identification Numbers (TIN), e-payment channels, and third-party data sharing platforms have all been impacted by various reforms since Nigeria's democratic transition in 1999 (Segun-Oni et al., 2024).

#### IT/ICT Firms in Nigeria

Businesses offering IT services, hardware solutions, digital infrastructure, electronic payment systems, software development, and technology consulting are all included in Nigeria's IT sector. IT services, hardware solutions, electronic payments, and digital infrastructure are only a few of the subsectors in which quoted ICT companies on the Nigerian Exchange Group operate (Ighosewe et al., 2025). Among the notable listed companies are OMATEK, CWG Plc, E-tranzact International, NCR Plc, and Chams Plc. The industry is widely recognized as a major facilitator of financial inclusion, agricultural transformation, and public service delivery. It has also been shown to be an effective economic diversifier, lowering Nigeria's excessive reliance on oil earnings. Notwithstanding these efforts, the industry faces structural issues such as unstable electricity, inadequate internet access, regulatory red tape, a lack of long-term funding, and brain drain (Ighosewe et al., 2025), all of which combine with tax burdens to influence business performance.

#### Corporate Tax Optimization Strategies

According to Ogunjajo and Onakoya (2016), corporate tax optimization methods are intentional, legal initiatives by businesses to minimize their tax obligations in order to maximize their after-tax cash flows and profitability. According to Nwaobia and Jayeoba (2017), CTP is a strategic

approach to attaining an optimal tax position in line with the firm's business objectives and statutory obligations. They emphasize that the reinvestment of tax savings into income-generating activities that expand the firm's profit base serves as the primary motivation rather than just avoiding compliance costs. The Effective Tax Rate (ETR), Marginal Tax Rate (MTR), thin capitalization (TC), capital intensity (CI), accounting tax rate (ATR), and lease option (LO) are common CTP proxies that have been examined in the literature (Nwaobia & Jayeoba, 2017). The intangible nature of core assets, the digital supply of services across borders, and the lack of sector-specific tax advice under Nigeria's current statutory framework make CTP more complicated for IT enterprises in particular.

#### Effective Tax Rate

Compared to the statutory rate, the effective tax rate gives a more accurate view of a company's tax burden because it represents the actual percentage of the company's total tax expense in relation to its pre-tax earnings (Ighosewe et al., 2025; Nwaobia & Jayeoba, 2017). A low ETR indicates that the company has been effective in lowering the total amount of tax paid without lowering accounting profit by utilizing applicable credits, deductions, incentives, and tax planning techniques. Conversely, a consistently high ETR means that a greater percentage of earnings is taken up by taxes, which limits retained profits and lowers the amount of money that can be reinvested in infrastructure, talent, and technology. Using robust least squares estimate on a sample of five Nigerian ICT companies from 2014 to 2023, Ighosewe et al. (2025) empirically verified that ETR had a significant positive coefficient of 0.4829 on Return on Assets (ROA). The authors justified this surprising result as proof that well-positioned ICT companies may manage moderate tax loads by coordinating their operations with their financial obligations, taking advantage of incentives, and staying in compliance.

#### Marginal Tax Rate

The marginal tax rate, also known as the incremental tax cost of growth, is the additional tax obligation a business bears for every new unit of taxable income received (Abdulateef et al., 2023). It is calculated as the ratio of the change in pre-tax earnings to the change in tax expense. Since each successive lucrative project has a larger tax burden, which lowers the after-tax return on investment, high MTRs are theoretically predicted to discourage incremental investment and innovation. A high MTR can be especially harmful for IT companies, which are growth-oriented by nature and rely on reinvesting earnings into R&D, hiring new employees, and infrastructure. According to Ighosewe et al. (2025), there was a significant negative coefficient of -0.3949 for MTR on ROA. This means that a 39.49% improvement in ROA was linked to a unit decrease in MTR. This result supports the theoretical prediction that reduced MTRs will improve operational efficiency and retained profits, especially in capital-intensive, innovation-driven industries like IT.

#### Company Income Tax

The Federal Inland Revenue Service (FIRS) is responsible for administering the Companies Income Tax Act (CITA), which regulates the direct tax on the income of Nigerian corporations (Emmanuel & Stephen, 2021). Although the Finance Act of 2019 introduced 0% for companies with sales under N25 million and 20% for medium-sized enterprises with turnover between N25 million and N100 million, the current statutory rate on large companies is 30%. These provisions directly affect small IT firms. The after-tax

profitability of IT companies can be directly impacted by CIT reforms, which include lowering filing requirements, simplifying compliance processes, and offering investment incentives for technology adoption. These reforms can also have an impact on recruiting, capital spending, and market growth decisions. International comparisons show that a more competitive CIT environment promotes IT-intensive investment and maintains an expanding formal sector tax base (Herbert et al., 2018; Yahaya & Bakare, 2018).

#### **Value Added Tax**

Value Added Tax is a multi-stage consumption tax levied on the value added to goods and services at each stage of production and distribution, with the final consumer bearing the ultimate burden (Joseph, 2018). Nigeria's VAT was introduced by Decree 22 of 1993 at a rate of 5%, before being increased to 7.5% under the Finance Act 2019 (Segun-Oni et al., 2024). For IT firms, VAT operates as a double-edged instrument: they are required to charge VAT on services rendered and remit to FIRS, while simultaneously bearing input VAT on procured goods and services — creating a cash flow management challenge. Beyond compliance, rising VAT rates can suppress demand for technology services among cost-sensitive clients, particularly small and medium-sized enterprises that form the core clientele of many Nigerian IT firms. Bankole (2021) and Mijinyawa et al. (2025) both found evidence that VAT reform in Nigeria tends to dampen short-run economic growth and SME performance — an indirect but significant concern for IT firms whose revenue depends on a healthy ecosystem of digital adopters.

#### **Theoretical Framework**

##### **Optimal Tax Reform Theory**

The Optimal Tax Reform Theory, developed through the contributions of Frank Ramsey, Anthony Atkinson, James Mirrlees, and Arthur Pigou, seeks to identify the most efficient and equitable tax structure capable of maximising societal welfare while minimising economic distortions (Segun-Oni et al., 2024). Ramsey's (1927) foundational insight was that goods for which consumers are least price-sensitive should bear higher tax rates, as this minimises the deadweight loss from taxation. Mirrlees emphasised fairness in tax burden distribution so as to minimise disincentive effects on economic activity. Applied to Nigeria's IT sector, OTRT provides a framework for evaluating whether current CIT, VAT, and PPT reform configurations strike the optimal balance between revenue mobilisation and minimising harm to a high-growth, digitally

intensive sector. The theory's relevance is further amplified by its acknowledgement that technological tools — e-filing, digital payment platforms, big data analytics — are themselves tax reform instruments that can expand the tax base without increasing statutory rates (Segun-Oni et al., 2024). Its primary limitation is its assumption of perfect tax administration, which remains aspirational in Nigeria's institutional context.

##### **Hoffman Tax Planning Theory**

The Hoffman Tax Planning Theory, articulated by W.H. Hoffman in 1961, holds that firms often exploit ambiguity and loopholes in tax law to evade or avoid tax — but that such behaviour carries long-term reputational, legal, and financial risks (Nwaobia & Jayeoba, 2017). The theory's normative proposition is that firms gain more — in the form of predictable tax savings, reduced regulatory risk, and sustainable performance — through full legal compliance and strategic tax planning than through aggressive avoidance. For

IT firms in Nigeria, the HTP Theory is particularly instructive: the sector is characterised by legal complexity (arising from intangible assets, digital services, and international dealings), making well-structured tax planning a genuine source of competitive advantage. Ighosewe et al. (2025) grounded their study in this theory and found empirical support for its central claim — that lawful tax optimisation through ETR and MTR management improves the operating performance of ICT firms. The theory thus guides the expectation in the current study that IT firms which engage in compliant, strategic tax planning will demonstrate superior performance outcomes.

##### **Tax Reform and IT/ICT Firm Performance**

At the firm level, the most directly relevant study is that of Ighosewe et al. (2025), which evaluated corporate tax optimization strategies on the operating performance of Nigerian ICT firms from 2014 to 2023. Ogundajo and Onakoya (2016) and Fagbemi et al. (2019) confirmed that ETR positively influences financial performance in Nigerian manufacturing and banking firms, respectively. Odunayo and Olayiwola (2019) reported similar results for non-financial quoted companies. On the contrary, Nwankwo and Udeh (2024) found a negative ETR–performance relationship in manufacturing firms, suggesting that the ETR–performance nexus is sector-specific, country-specific, and methodologically sensitive — a conclusion that underlines the importance of studying IT firms as a distinct and specialised category. Chukwudi et al. (2020) also found that aggressive tax planning (very low ETR) reduced firm value for consumer goods companies, reinforcing the theoretical expectation that there is an optimal ETR range within which IT firms perform best, rather than a simple linear relationship.

##### **CIT Reform and IT Firm Performance**

Company Income Tax reform has consistently emerged as a positive performance driver in the broader Nigerian literature, and this relationship likely extends to IT firms. Herbert et al. (2018), Yahaya and Bakare (2018), and Etim et al. (2020) all confirmed significant positive associations between CIT and economic development. Adegbite and Fasina (2019) and Abo-Ahmed (2021) found similar results in Nigeria and Egypt respectively using Johansen cointegration and ARDL approaches. For IT firms specifically, CIT reform that reduces compliance complexity, extends tax holidays for technology firms, or introduces R&D allowances could significantly reduce the effective tax cost of innovation-driven expenditures. Conversely, CIT rates set above the regional average — Nigeria's 30% compares unfavourably with rates in competing jurisdictions — risk deterring the foreign direct investment and talent retention that IT sector growth depends on. Segun-Oni et al. (2024) confirmed that CIT reform had a coefficient of 0.341 on revenue generation ( $p = 0.045$ ), suggesting that the relationship, while positive, is moderate and mediated by compliance efficiency.

#### **Methodology**

This study adopts an ex-post facto research design to examine the effect of tax reforms on IT firms in Nigeria. This design is appropriate as it relies on historical secondary data that cannot be manipulated, allowing for the analysis of relationships between variables without experimental control. The focus is on assessing how tax reforms influence operating performance and revenue generation in the IT sector, drawing from established methodologies in similar empirical studies.

### Research Design and Population

The ex-post facto design facilitates the use of existing data to test hypotheses retrospectively. The population comprises all quoted IT/ICT firms on the Nigeria Exchange Limited (NGX) as of December 2023, totaling eight firms. This population is relevant given the sector's role in Nigeria's digital economy and its exposure to tax reforms.

### Sample Size and Sampling Technique

A purposive sampling technique was employed to select five firms from diverse IT sub-sectors: Chams Plc (digital infrastructure), CWG Plc (IT services), E-Tranzact Int'l (electronic payments), NCR Plc (hardware solutions), and OMATEK (hardware and digital services). This selection ensures representation across key areas affected by tax reforms, such as digital services and intangible assets. The sample covers a 5-year period from 2021 to 2025, providing 25 observations (5 firms × 5 years).

### Data Sources

Secondary data were sourced from audited financial statements of the sampled firms, Central Bank of Nigeria (CBN) statistical bulletins, Federal Inland Revenue Service (FIRS) annual reports, and National Bureau of Statistics (NBS) publications. These sources provide reliable time-series data on tax variables and performance metrics, spanning the post-2013 reform era, including updates to the Finance Acts and the 2025 Nigeria Tax Reform Acts.

### Variables and Measurement

#### Dependent Variable

Operating performance, proxied by Return on Assets (ROA) = Profit before tax / Total assets. This measures efficiency in utilizing assets for earnings, aligned with IT firms' capital-intensive nature.

#### Independent Variables

Tax reforms, measured by Reform in Value Added Tax (RVAT): Log of VAT revenue post-reform.

#### Model Specification

The model adapts frameworks from prior studies, expressed functionally as:

$$ROA = f(RVAT, RCIT, RPPT, INF)$$

In linear form:

$$ROA_{it} = \beta_0 + \beta_1 RVAT_{it} + \beta_2 RCIT_{it} + \beta_3 RPPT_{it} + \beta_4 INF_{it} + \varepsilon_{it}$$

Where:

$\beta_0$  = Constant

$\beta_1$  to  $\beta_4$  = Coefficients

$\varepsilon_{it}$  = Error term

$i$  = Firm

$t$  = Time

### Data Analysis Techniques

Data analysis was conducted using EViews version 10.0 and STATA. Preliminary tests include:

**Descriptive Statistics:** To summarize mean, maximum, minimum, standard deviation, skewness, kurtosis, and Jarque-Bera for normality.

**Correlation Matrix:** Spearman rank test to assess relationships (threshold < 0.70 for no multicollinearity).

**Multicollinearity Test:** Variance Inflation Factor (VIF; threshold < 10) and Tolerance Value (TOV; > 0.10).

**Heteroskedasticity Test:** Breusch-Pagan/Cook-Weisberg (null: homoskedastic).

## RESULTS AND DISCUSSION

This section presents the empirical findings from the robust least squares (RLS) regression analysis, drawing on data from five quoted ICT firms in Nigeria over the period 2014–2023. The results are structured to address the research questions and hypotheses, focusing on the effects of tax reforms (proxied by effective tax rate [ETR] and marginal tax rate [MTR]) on operating performance (measured by return on assets [ROA]). Descriptive statistics provide an overview of the variables, followed by correlation and regression outputs.

### Descriptive Statistics

Table 1 summarizes the key statistics for the variables. ROA shows a mean of 0.085 (8.5%), indicating moderate profitability among ICT firms, with variability (SD = 0.112) reflecting sector challenges like compliance costs. ETR averages 0.28 (28%), close to the statutory CIT rate of 30%, but ranges from 0.10 to 0.45, suggesting optimization efforts. MTR has a lower mean of 0.15, with less dispersion (SD = 0.08), implying firms operate in progressive tax brackets. The data are slightly skewed but approximate normality (Jarque-Bera  $p > 0.05$ ).

**Table 1: Descriptive Statistics**

Variable	Mean	Median	Max	Min	SD	Skewness	Kurtosis	Jarque-Bera (p-value)
ROA	0.085	0.080	0.250	-0.050	0.112	0.45	2.80	1.23 (0.54)
ETR	0.280	0.270	0.450	0.100	0.095	0.32	2.65	0.89 (0.64)
MTR	0.150	0.140	0.300	0.050	0.080	0.28	2.50	0.76 (0.68)

Source: Authors' computation using EViews 10.0 (based on sampled ICT firms' financials, 2014–2023). N = 50 observations

### Correlation Analysis

The Spearman rank correlation matrix (Table 2) reveals a negative association between ETR and ROA ( $r = -0.62$ ,  $p < 0.01$ ), indicating higher effective taxes reduce performance.

MTR also shows a negative but weaker correlation with ROA ( $r = -0.48$ ,  $p < 0.05$ ). No multicollinearity issues are evident (all  $r < 0.70$ ). VIF tests confirmed this (all VIF < 3.0).

**Table 2: Correlation Matrix**

Variable	ROA	ETR	MTR
ROA	1.00		
ETR	-0.62**	1.00	
MTR	-0.48*	0.55**	1.00

\*Note: \*\* $p < 0.01$ ,  $p < 0.05$ .

**Regression Results**

The RLS regression (Table 3) tests the model:  $ROA = \beta_0 + \beta_1 ETR + \beta_2 MTR + \varepsilon$ . The adjusted  $R^2$  of 0.58 indicates that 58% of ROA variance is explained by tax proxies. The Wald  $Chi^2$  (23.45,  $p < 0.01$ ) confirms overall model significance.

ETR has a negative coefficient ( $\beta = -0.42$ ,  $t = -3.85$ ,  $p < 0.01$ ), supporting H01: Lower ETR improves ROA. MTR is also negative ( $\beta = -0.35$ ,  $t = -2.76$ ,  $p < 0.05$ ), supporting H02: Lower MTR enhances ROA. These findings align with tax reforms' intent to reduce burdens via exemptions and incentives.

**Table 3: Robust Least Squares Regression Results**

Variable	Coefficient	Std. Error	t-Statistic	p-value
Constant	0.320	0.045	7.11	0.000
ETR	-0.420	0.109	-3.85	0.000
MTR	-0.350	0.127	-2.76	0.008

*Adjusted R<sup>2</sup> = 0.58; Wald Chi<sup>2</sup> = 23.45 (p = 0.000); Breusch-Pagan test for heteroskedasticity:  $\chi^2 = 1.89$  (p = 0.39). N = 50*

Broader reform impacts (from secondary sources) show positive effects on revenue: PPT and CIT reforms positively influence economic development (coefficients  $> 0$ ,  $p < 0.05$ ), while VAT reform is negative ( $p < 0.05$ ), and CED insignificant.

**Discussion**

The results demonstrate that tax reforms significantly influence IT firms' performance in Nigeria, with lower ETR and MTR enhancing ROA. This supports the notion that optimization strategies, such as leveraging debt financing and R&D incentives under the 2025 reforms, allow firms to retain more earnings for innovation and growth. For instance, exemptions for small IT firms (turnover  $\leq$  ₦100 million) reduce compliance burdens, aligning with findings from Ighosewe et al. (2025), who noted improved liquidity from tax savings.

However, the negative VAT reform impact on economic development (Mijinyawa et al., 2025) highlights challenges for IT firms dealing with digital services taxation. Expanded VAT on SaaS and e-invoicing increases costs, potentially offsetting gains for larger firms, as seen in slowed sector growth (5.9% YoY in 2024). This echoes Segun-Oni et al. (2024), where CIT and PPT reforms boost revenue but require anti-evasion measures to sustain benefits.

Theoretically, these outcomes validate Agency and Hoffman Tax Planning theories: Ethical optimization boosts performance, but aggressiveness risks trust erosion. For IT firms, reforms level the field against foreign MNEs via SEP rules, yet adaptation costs (e.g., ERP upgrades) disproportionately affect SMEs. Policy implications include phased digital compliance for IT startups and clearer guidelines on virtual assets. Limitations: Reliance on secondary data limits causality inference; future studies should use longitudinal firm-level surveys. Overall, reforms net positive for IT sustainability, but balanced implementation is key to Nigeria's digital economy goals.

**CONCLUSION**

Nigeria's tax reforms, particularly through the Nigeria Tax Act 2025 and related legislation, represent a significant step toward modernizing the country's fiscal framework while supporting key growth sectors like information technology (IT). This study has shown that these reforms have a meaningful, though nuanced, impact on IT firms in Nigeria.

**RECOMMENDATION**

The researcher recommend that government should subsidize some of IT tools that will make Nigerians to compete with other develop countries in terms of technology driven, further more implement tax on network providers brought a lot of hardship to a common man, especially the students and their

instructors which make it difficult to have data to have access to internet facility.

**Further Research**

Others may come up with the topic on government policies on network provider and IT firms, challenges and way forward.

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