



FISCAL POLICY AND THE PERFORMANCE OF PRIVATE SECTOR IN NIGERIA (1990-2019): A VECTOR ERROR CORRECTION INVESTIGATION

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ABSTRACT: *The study examines the relationship between fiscal policy and the performance of private sector in Nigeria; for the period 1990-2019. Secondary data are collected from Central Bank of Nigeria Statistical Bulletin, 2019. Four variables are employ for this study. These are Private Sector Output as proxy for performance of private sector economy and used as the dependent variable; whereas, the explanatory variables include Tax, Recurrent Expenditure and Capital Expenditure. Hypotheses are formulated and tested using time series econometric models. The result confirms that about 68% short-run adjustment speed from long-run disequilibrium. The study shows a significant relationship between capital expenditure and private sector output in Nigeria. Taxation has a significant relationship with private sector output in Nigeria. Recurrent expenditure has a significant relationship with private sector output in Nigeria. The coefficient of determination indicates that about 62% of the variations in economic growth can be explain by changes in fiscal policy variables in Nigeria. The study concludes that fiscal policy has a significant relationship with the growth and development of Nigerian economy. The study recommends that more resources should be relocated to productive sectors and increasing and sustaining a spending on the productive sectors of the economy. The study suggested that Nigerian government should put a stop to the incessant unproductive foreign borrowing, wasteful spending and uncontrolled money supply. The government should embark on specific policies aimed at achieving increased and sustainable growth and development in the economy.*

KEYWORDS: Fiscal Policy, Performance, Private Sector, Economy, Nigeria



INTRODUCTION

In any modern economy a vibrant government fiscal policy serves as a catalyst for private sector growth and development. Thus, government capital expenditure through fiscal policy appears to have continuous increase overtime in Nigeria (Olayiwola & Busari, 2017). However, government spending on capital intensive projects will improve the welfare of the people and facilitate production of goods and services across all sectors of the economy which could leads to stimulate private sector growth. Hence, the work of Adewuyi and Adeoye (2017) stated that capital expenditure has increased rapidly during the last two decades and without a corresponding increase in growth and development of the private sector economy. Study carried out by Umeora and Andabai (2015) posited that the economists have generally concentrated their attention on the theory of taxation. However, the theory of government capital expenditure has been more or less confined to those generalities in terms of its impact on the private sector growth.

Hence, the input of recurrent expenditure on private sector growth has continued to generate series of debate among scholars in Nigeria. Consequently, Government performs two basic functions of protection and provision of public necessities such as defense, roads, education, health and power etc. Because, an increase in capital expenditure on socio-economic and physical infrastructures encourage private sector growth and development. Similarly, such expenditure on infrastructure like: roads, communication, power etc. reduced production cost, increase private sector investments. Study carried out by Chiugbu and Adenekinju (2018) stated that in order to maintain a steady rate of growth and development of private sector economy; fiscal policy is expected to play a major role. The work of Podrecca and Carmeci (2018) posited that in order to increase real sector growth in the developing economies, government capital expenditure plays a crucial role; because, it facilitates social overhead, roads, electricity, that has assisted in market expansion and rate of investment.

In Nigeria, government spending over the years has sky-rocketed; but, the private sector economy is still struggling under the shackles of under-development when compared with her counterparts in Asia (Malaysia, Pakistan, Indonesia, Iran, India, Thailand and Bangladesh), which Nigeria was ranked ahead of in the 1960's in terms of growth potentials (Rukyatu & Kumalu, 2018). Thus, the study by Azeez and Aliyu (2018) revealed that government capital expenditure has continued to rise over years due to huge receipts from production, increased demand for public goods like communication, roads, health and power. Hence, the persistent rise in government capital expenditure has not translated to meaningful growth and development in the private sector economy of Nigeria (Andabai, 2014). These conflicting problems created a knowledge gap in this study; therefore, it is against this background that the study attempts to investigate the effect of government fiscal policy on the performance of private sector economy in Nigeria.

Theoretical Framework

The theoretical frame work of this study is predicated on Wagner's theory of increasing state activities of (1917). The theory stated that the extension of state functions leads to an increase in public expenditure on administration and regulation in the economy. The development of modern industrial society would give rise to increasing political pressure for social progress and call for social consideration in the conduct of the economy. The raise in public expenditure will leads to increase in private sector performance in Nigeria. The structure characteristics of



government domestic debt discussed-including, composition, investor base and maturity structure have important implications for the conduct of monetary policy and for the development of the financial sector in general (Sikiru & James, 2017). The composition of the market has been mainly in favor of short-term treasury bills. Currently, the CBN could finance any deficit and refinance maturing debt easily with the frequent sales of large quantities of short-term treasury bills. But this simply concentrates government indebtedness to the most liquid sector of the market; short maturing treasury bills. Issuing securities at large maturities reduces to some extent the liquidity of the securities market. Large maturing debt is inherently less liquid than short-term debt. The Central Bank of Nigerian has tried to control excess liquidity in the banking system either using stabilization securities to mop up the excess, or by changing liquidity ratio requirements. However, this policy is always frustrated by the regular issuance of more short term treasury bills which immediately restores high liquidity in the system thereby impeding monetary policy conduct. Generally regular liquidity mops up exercises by the Central Bank are hampered by the frequent sales of short term treasury bills (Chiugbu & Adenekinju, 2017).

Empirical Review

Agboenda (2018) investigated the nexus between fiscal policy and real sector growth in Nigeria (1996-2017). Using multiple regression analysis, adopting private sector output as proxy for real sector growth and tax revenue, government recurrent expenditure budget and government capital expenditure budget as the explanatory variables argued that significant relationship exist between fiscal policy variable jointly and economic growth and that the specific variable contributing to the GDP are government recurrent and capital expenditures.

Madugbe and Ndalla (2017) evaluated the effect of government fiscal policy on Nigeria's economic growth (1998-2017). The study used Gross Domestic Product as the dependent variable and federal government expenditure, federal government revenue, inflation rate and capital inflow as the regressor and by adopting arcane method of OLS techniques argued that they exist long run equilibrium relationship between fiscal policy variable and economic growth in Nigeria. Omitogun and Ayinla (2017) examined fiscal policy and Nigerian economy (1990-2016) using Ordinary Least Square method claimed that fiscal policy has been effective in the area of promoting sustainable economic growth. They used gross domestic product as proxy for economic growth representing and money printing financed deficits were used as explanatory variables.

Balaji and Yusuf (2020) investigated fiscal policy and economic growth relationship in Nigeria (1997-2019) using the Engle-Granger approach to co-integration test, stated that productive expenditure was found to be statistically significant. They utilized logarithms of real gross domestic product as proxy for economic growth representing the dependent variable while the independent variables were the logarithms of productive government consumption expenditure (defined as total recurrent expenditure less recurrent expenditure on health, education and economic services), direct income tax, and capital expenditure.

Ojikoi and Yuhua (2020) examined the contribution of fiscal policy in the achievement of sustainable economic growth in Nigeria using Slow growth model estimated with the use of ordinary least square method. It was found that fiscal policy has not been effective in the area of promoting sustainable economic growth in Nigeria. They however, stated that factors such



as wasteful spending, poor policy evident in Nigeria which are indeed capable of hampering the effectiveness, of fiscal policy has made it impossible to come up with such a conclusion.

Mojuo (2019) examined at the nexus of unemployment and growth in Nigeria (1995-2019). On major findings of the study is that the economy grew by 55.5% between 1999-2015 and the population increased by 36.4%. This should ordinarily have resulted to a decrease in the rate of unemployment but rather unemployment increased by 74.8%. Osuwqi and Shahu (2020) studied fiscal policy formulation and implementation in oil producing countries. Their study showed that resource dependent economies tend to grow more slowly than non-resource dependent ones at comparable level of development. Poverty is skill wide spread in a number of oil-producing countries. They concluded that a pattern of fluctuating fiscal expenditures associated with oil volatility has entailed significant economic and social costs for a number of oil producers. Ogbale, Amadi and Essi (2011) wrote on fiscal policy; its impact on economic growth in Nigeria (1970-2006). The study involves comparative analysis of the impact of fiscal policy on economic growth in Nigeria during regulation and deregulation periods. Econometrics analysis of time series data from central Bank of Nigeria was conducted. Results showed that there is difference in the effectiveness of fiscal policy targets and diversification of the nation's economic base, among other, was recommended.

Chiubgu (2019) examined the effect of monetary and fiscal policy interactions in Nigeria between 1990-2018. The study examined the nature of fiscal policies in Nigeria using vector auto-regression (VAR) model. The evidence indicates that monetary and fiscal policies in Nigeria have interacted in a counteractive manner for most of the sample period (1990-2018), while at other periods no symmetric pattern of interaction between the two policy variables was observed. Ozuaju and Ayigbe (2018) examined fiscal policy and economic growth in Nigeria. They used Solow growth model estimated with the use of ordinary least square method and found out that fiscal policy has not been effective in the area of promoting sustainable economic growth in Nigeria. They suggested that Nigerian government should put a stop to the incessant unproductive foreign borrowing, wasteful spending and uncontrolled money supply and embark on specific policies aimed at achieving increased and sustainable productivity in all sectors of the economy.

METHODOLOGY

The *ex-post-facto* research design was used; because, the data are already documented by reputable institutions like the World Bank, International Monetary Fund (IMF), Central Bank of Nigeria (CBN) and National Bureau of Statistics. Thus, researchers adapt and rely on such official publications for valid and reliable academic exercise (Ibenta, 2012). The study used Private Sector Output as proxy for the performance of private sector economy and used as the dependent variable; whereas, the explanatory variables include Tax, Recurrent Expenditure and Capital Expenditure as stated in appendix 1.

Model Specification

Multivariate linear regression models are used to test each of the null hypotheses proposed for this study. Based on the three formulated hypotheses, the study adapted a model from the work of (Umeora & Andabai, 2015). This model is stated as follows: $GDP = f(CE, RE, TAX)$



Where: GDP = Gross Domestic Product as proxy for Economic Growth, CE = Capital Expenditure, RE = Recurrent Expenditure, TAX = Government Taxation

The above model is modified in this study by introducing Private Sector Output and was employed as dependent variable. Hence, the modified model was stated as:

$$PSO = f(CE, RE, TAX) \dots \dots \dots (1).$$

The econometric form can be written as:

$$\ln PSO = a_0 + a_1 \ln CE + a_2 \ln RE + a_3 \ln TAX + \mu \dots \dots \dots (2).$$

Where: PSO = Private Sector Output as proxy for performance of private sector economy

CE = Capital Expenditure, RE = Recurrent Expenditure, TAX = Taxation

a_0 = Constant parameter, a_1 – a_3 = Elasticity Co-efficient of each variable. μ = Stochastic error term, \ln = The natural log of the variables. Log transformation is necessary to reduce the problem of heteroskedasticity because it compresses the scale in which the variables are measured, thereby reducing a tenfold difference between two values to a twofold difference (Gujarati, 2004).

DATA PRESENTATION AND DISCUSSION

The study centered on the relationship between fiscal policy and the performance of private sector economy in Nigeria; for the period 1990-2019. The study used private sector output as proxy for the performance of private sector economy and used as the dependent variable; whereas, the explanatory variables include tax, recurrent expenditure and capital expenditure as indicated in appendix 1.

Table 1: Descriptive statistics

	PSO	CE	RE	TAX
Mean	84937.88	86347.28	75637.50	48.37853
Median	30362.70	43193.80	86765.12	44.16480
Maximum	68570.35	72534.43	56137.45	62.13620
Minimum	55619.30	46376.56	31527.25	35.36200
Std. Dev.	51036.02	148.6905	53826.49	9.348232
Skewness	72734.20	31112.48	10116.44	0.158376
Kurtosis	31003.65	14194.50	53759.20	2.238517
Jarque-Bera	0.350204	218.7151	12826.39	0.336209
Probability	0.790269	0.000000	0.001232	0.836799
Sum	162.1930	3173.310	487.4000	1573.929
Sum Sq. Dev.	1158.357	685374.4	907.4760	2164.166
Observations	30	30	30	30

Source: E-views 9.1 output



Descriptive statistics on table 1 shows that private sector output (PSO) for the period under study had a mean value of ₦82,937.88, capital expenditure had ₦86,347.28, and recurrent expenditure had ₦75,637.50 while Taxation had 48.37%. The Jarque-Bera statistic shows that two of the variables, namely private sector output (PSO) and recurrent expenditure were normally distributed while government recurrent expenditure and taxation were highly skewed. Furthermore, capital expenditure has a mean of ₦86,347.28 this implies that for the period under review the capital expenditure was very high. This is because, capital expenditure contributed significantly to the growth and development of private sector-led economy in Nigeria.

Unit Root Test

The stationary test of the variables was done using the Augmented Dicker Fuller (ADF) Unit Root Test. The result on **table 2** shows that all the variables are integrated at first difference i.e. I(1) at the 5% or 1% level of significance.

Table 2: Unit Root Tests Analysis

Variables	ADF test Statistics	Mackinnon critical @ 5%	No of the time difference	Remark
PSO	6.3627452	-4.859043	I(1)	Stationary
CE	-3.1537684	-5.957697	I(1)	Stationary
RE	-4.8576904	-4.756584	I(1)	Stationary
TAX	5.2324253	2.869763	I(1)	Stationary

Notes: (1) 1% level of significance, 5% level of significance, 10% level of significance. The tests accepted at 5% level of significance. *Source:* Researcher's Estimation using- E-views 9.1.

Test for Co-Integration

Thus, having found that all the variables are stationary at first difference, the next step is to perform Johansen co-integration procedure to ascertain whether private sector output (PSO), capital expenditure (CE), recurrent expenditure (RE) and tax (TAX) are co-integrated in the same order. The results of the test are presented on table 3.

Table 3: Multivariate Johansen's Co-Integration Test Result.

Null hypotheses	Alternative hypotheses	Eigen value	Likelihood ratio	Critical vales 5%	Critical value 1%	Hypothesized No. of CE(s)
r=0	r=1	0.668677	56.364876	58.36	44.08	None **
rd≤1	r=2	0.638676	43.759783	44.29	38.53	At most 1
rd≤2	r=3	0.585669	36.285387	36.42	29.13	At most 2
rd≤3	r=4	0.486970	24.537603	24.25	27.87	At most 3

Source: E-views Econometrics 9.1. Note* (**) denotes rejection of hypothesis at 5% (1%) significance level.



Vector Error Correction Model

The Error Correction coefficient contains information about whether the past values affect the current values of the variable under study and the significant coefficient implies that past equilibrium errors play a role in determining the current outcomes (Ibenta, 2012).

Table 4: Vector Error Correction Estimates Results

Dependent Variable: PSO

Method: Least Squares, Time: 06:30

Sample: 1990-2019

Included observations: 30

Date: 06/02/2020	Coefficient	Std. Error	t-Statistic	Prob.
(ECM)(-1)	-0.683463	0.076984	16.24383	0.00035
D(PSO ₋₁)	3.748580	0.056743	5.867665	0.00025
D(PSO ₋₂)	7.568529	0.007887	4.375649	0.00038
C	4.630554	0.008693	1.364648	0.00023
Ln(CE)	8.465879	0.658709	0.127385	0.00254
Ln(RE)	6.567485	0.029787	2.437892	0.00032
Ln(TAX)	5.275978	0.058859	3.132479	0.00324
R-squared	0.620464	Mean dependent var		132.3220
Adjusted R-squared	0.580143	S.D. dependent var		35.83676
S.E. of regression	12.85095	Akaike info criterion		123.2359
Sum squared resid	32263.10	Schwarz criterion		10.46039
Log likelihood	-18.1673	F-statistic		6.967846
Durbin-Watson stat	1.976854	Prob(F-statistic)		0.000000

Source: Author's computation with the use of E-view 9.1

The results on table 4 show that error-correction coefficient (-0.683463) is statistically significant and has a negative sign, which confirms a necessary condition for the variables to be co-integrated. Hence, a long-run equilibrium relationship exist between fiscal policy and the private sector economy in Nigeria; and, the result confirms that about 68% short-run adjustment speed from long-run disequilibrium. The coefficient of determination ($R^2=0.620464$) indicates that about 62% of the variations in performance of private sector economy can be explained by changes in fiscal policy variables (RE, CE, TAX) in Nigeria. This implies that a significant portion of the performance of private sector economy is explained by fiscal policy variables. The F-Statistics of (6.967846) which is significant at 5% confirms the relationship between fiscal policy and the performance of private sector economy in Nigeria; for the period 1990-2018. The influence of the explanatory variables on the dependent variable is statistically significant and this is also confirmed by the F-probability which is statistically zero.

Test of Hypotheses

H₀₁: Capital expenditure has no significant relationship with the private sector output in Nigeria. Decision Criteria, Level of significance (α): 0.05 (5%). Decision Rule: Reject H₀: If



p- value < 0.05 and accept H_0 if p- value > 0.05 . The results on table 4 show that capital expenditure has a t-statistic of 0.127385 with a probability of 0.000254 which is lower than the level of significance of 0.05, which means, its relationship is statistically significant. The null hypothesis is, thus, rejected. Thus, capital expenditure has a significant relationship between with the private sector output in Nigeria. **H₀₂**: Revenue expenditure has no significant relationship with the private sector output in Nigeria. Decision Rule: Reject H_0 : If p- value < 0.05 and accept H_0 if p- value > 0.05 . The results on table 4 show that capital expenditure has a t-statistic of 2.437892 with a probability of 0.000032 which is lower than the level of significance of 0.05, which means, hence, its relationship is statistically significant. The null hypothesis is, therefore, rejected. Thus, revenue expenditure has a significant relationship with private sector output in Nigeria. **H₀₃**: Tax has no significant effect on private sector output in Nigeria. Decision Rule, Reject H_0 : If p- value < 0.05 and accept H_0 if p- value > 0.05 , The results on table 4 show that tax has a t-statistic of 3.674769 with a probability of 0.000324 which is lower than the level of significance of 0.05, which means, hence, its relationship is statistically significant. The null hypothesis is therefore rejected. Hence, tax has a significant relationship with private sector output in Nigeria.

CONCLUSION AND RECOMMENDATIONS

The study concludes that fiscal policy has a significant relationship between with the growth and development of private sector economy in Nigeria. This is consistent with the work of Andabai (2014) which revealed that private sector development has a significant relationship with economic growth in Nigeria. Hence, the intervention of the Government in an economy through fiscal policy has been to manipulate the receipt and expenditure of its budget in other to achieve macro-economic objectives (Ogbejuana, 2017). Thus, the study recommends that more resources should be relocated to productive sectors and increasing and sustaining a spending on the productive sectors of the economy. The study suggested that Nigerian government should put a stop to the incessant unproductive foreign borrowing, wasteful spending and uncontrolled money supply. The government should embark on specific policies aimed at achieving increased and sustainable growth and development in the economy. Monetary authority and policy makers should encourage banks to set up more branches in the rural areas in order to encourage rural based investors through private sector investments in the economy.

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APPENDIX

Effect Fiscal Policy on Private Sector Output in Nigeria (1990-2019)

Years	Private Sector Output (₦' billion)	Capital Expend. (₦' Billion)	Tax Rate (%)	Recurrent Expenditure (₦' Billion)
1990	157.3	33.55	25.50	52.86
1991	218.5	41.35	20.01	75.40
1992	311.8	58.12	29.80	111.11
1993	253.9	127.12	18.32	165.34
1994	453.9	143.42	21.00	230.29
1995	745.6	180.00	20.18	289.09
1996	896.4	238.60	19.74	345.85
1997	1,099.0	316.21	13.54	413.28
1998	2,417.3	351.96	18.29	488.15
1999	3,401.7	431.17	21.32	628.95
2000	3,474.6	530.37	17.98	878.46
2001	3,154.3	764.96	18.29	1,269.32
2002	3,727.0	930.49	24.85	1,505.96
2003	5,618.7	1,096.54	20.71	1,952.92
2004	5,353.4	1,421.66	19.18	2,131.82
2005	6,158.1	1,838.39	17.95	2,637.91
2006	7,946.8	2,290.62	17.26	3,797.91
2007	8,688.5	3,668.66	16.94	5,127.40
2008	11,069.5	6,920.50	15.14	8,008.20
2009	13,817.4	9,110.86	18.99	9,419.92
2010	15,321.9	10,157.02	17.59	11,034.94
2011	18,221.3	10,660.07	16.02	12,172.49
2012	17,820.4	14,649.28	16.79	13,895.39
2013	26,116.8	15,778.31	16.72	15,158.62
2014	28,324.0	17,128.98	16.55	17,680.52
2015	29,753.3	17,895.26	18.2	19,772.87
2016	30,278.2	17,357.18	18.9	19,988.30
2017	31,097.9	16,364.64	18.45	17,756.84
2018	32,157.3	19,769.05	29.34	23,745.45
2019	34,354.4	19,987.93	23.01	24,363.85

Source: Central Bank Nigeria Statistical Bulletin, 2019.