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Abstract
The study examines the relationship between financial liberalization and performance of the Nigerian economy using time series spanning data (1987-2015). The data used to conduct this study were collected from the Central Bank of Nigeria Statistical Bulletin and National Bureau of Statistics. Hypotheses were formulated and tested using time series econometrics techniques. The study reveals that the variables do not have unit roots. There is also long-run equilibrium relationship between financial liberalization and performance of the Nigerian economy. The Vector Error Correction Model (VECM) result confirms that about 73% short-run adjustment speed from long-run disequilibrium. The coefficient of determination indicates that about 63% of the variations in performance of the Nigerian economy can be explained by changes in financial liberalization variables. There is no causality between financial liberalization and performance of the Nigerian economy. The study therefore recommends that, strong macroeconomic policies such as (monetary and fiscal) should be adopted to maintain and stabilize the economy. CBN should lay down strict prudential rules and regulations to stabilize and strengthen the banking industry. The Government and monetary authority should implement policies that will increase the flow of investable funds and improves the capacity of banks to extend credit to the economy.

Keywords: Financial, liberalization, Performance, Nigeria And Economy.

Introduction
The importance of financial development and growth relationship had occupied central position in the financial economics literature in recent decades for both develop and developing economies. Financial liberalization and performance of the Nigerian economy nexus had been identified as one of the areas in the financial economics literature that can quicken the pace of growth and development in an economy such as Nigeria. The effects of this strategy need to be determined and examined from time to time especially for developing economies like Nigeria. Thus, the advent of financial liberalization policy in 1986 has drastically reduced financial repression in the Nigerian financial system. This is consistent with the financial liberalization theory by McKinnon (1973) and Shaw (1973), which addresses the problems caused by the repressive financial policies in most developing economies such as Nigeria. This corroborates the work of Okpalami and Ofoluewa (2014), which shows a positive significant relationship between financial liberalization and real sector growth in Nigeria. The study concludes that provisions of financial services stimulate the productive sectors such as: manufacturing, oil and gas, agriculture, construction, communication, solid minerals, real estate, trade, utilities etc.

Financial liberalization is the removal of all restrictions, controls, regulations and distortions imposed by the government on financial assets and its prices. Financial liberalization had created an opportunity for increasing global financial services and also posed a serious challenge to the developing countries due to their fragile financial systems; which makes them vulnerable to external financial shocks (Sulaiman, Oke & Azeez, 2012). Okpara (2010) observed that financial liberalization grants market forces a dominant role in setting financial asset prices and returns, allocating credit, and developing a wider array of financial instruments and intermediaries. He also noted that, the wave of liberalization in many developing countries in the 1980s was characterized by more attentions given to market forces in allocating credit through freely determined interest rates.

Khazri and Djelassi (2011) asserted that financial liberalization policy would increase savings which consequently spurs investment and induce economic growth and development. They also argued that higher interest rates brought about liberalization that will lead to a more efficient allocation of resources, higher level of investment, economic growth and development. The focus of liberalization has been to replace the severely constrained command and control system with a relatively liberalized regime with prices reflecting economic costs (Ogwumike & Ikenna, 2012). Financial liberalization has become an important economic policy package in both advanced and advancing countries, for more than a decade now (Nzotta & Okereke, 2009). Financial liberalization in developing countries has been cited as a necessary and significant part of an economic policy package and promoted by what used to be called the Washington consensus (Bakare, 2011).

The developing countries, in order to revamp their economy, decided to implement the economy recovery programme famously called Structural Adjustment Programme introduced by the Bretton Woods institutions (World Bank and International Monetary Fund) aimed at liberalizing prices in distress and melt-down economies (Okpara, 2010). The adoption of this programme signals the phasing out of financial repressive policy in the economy. Thus, financial liberalization serves as a panacea to financial constraints in a financial repressed economy and under the financial repression regime. The monetary
authorities imposed high reserve requirements, bank-specific credit ceilings, selective credit allocation, mandatory holding of treasury bills, bonds issued by the government, and finally, a non-competitive and segmented financial system (Omoke, 2010).

Theories of financial repression associated especially with Mckinnon and Shaw postulated that administrative control of financial markets by the government distorts interest rate and the resultant effect of this is that savings is discouraged, consumption is encouraged and the quantity of investment is crippled (Al-Sowaidi & Darrat, 2010). Okpara (2010) stressed that following the globalization trend, Nigeria embraced the Structural Adjustment Programme (SAP) in 1986 as a corrective measure to the deteriorating economic situation. The real Gross Domestic Product (GDP) growth rate averaged was only 1.5% per annum before that period SAP thereby registering negative growth rate during that period (Obamuyi, 2009). The SAP was proposed as an economic package to rapidly and effectively transform the Nigerian economy and the basic thrust of the economic reforms embodied in SAP is deregulation, particularly financial deregulation (Ogwunike & Ikena, 2012).

In Nigeria, after the introduction of financial liberalization policy (relaxation of bank rules), the number of banks increased from 41 in 1986 to about 120 in 1992 but eventually was hit by arising systematic risk that pruned down the number banks to 26 and they were liquidated in 1996. By 1998, about 60 banks were also liquidated, and non-performing loans in that period stood at N44.5 billion which latter rose to N49.6 billion in 2004 and these severe problems led to the bank re-capitalization to N25 billion by the Nigerian monetary authorities (Ogwumike & Ofoegbu, 2012). However, in Nigeria, after the introduction of financial liberalization policy, the domestic economy failed to experience impressive performance such as attraction of foreign investment or halt capital flight (Okpara, 2010). Hence, financial liberalization generates tremendous financial booms and busts in the short-but these booms and busts have not intensified in the long-run and the debate over the macro-economic effect of financial liberalization on developing economies remains a controversial issue.

Various studies have been conducted in Nigeria by Okpara (2010); Bakare (2011); Ogwumike and Ikenna (2012) and Obamuyi (2012) on financial liberalization and performance of the Nigerian economy. The study shows a positive significant relationship between financial liberalization and performance of the Nigerian economy. While some other studies witnessed in South Africa by Kabango and Paloni (2011); Tswamumo et al (2013) and Bashar and Khan (2013) of Bangladesh and Khazri and Djelassi (2011) of Pakistan reveal a negative significant relationship between financial liberalization and economic growth in their various countries with similar time series data. Hence, Babajide (2010) in their study concluded that financial liberalization and economic growth have no consistent relationship in Nigeria. While Nzotta and Okereke (2009) also stated that the financial system had not sustained an effective intermediation, especially credit allocation and a high level of monetization.

Theoretical Framework
The theoretical framework underlining this study is the financial liberalization theory by McKinnon (1973) and Shaw (1973) and the theory advocated that financial liberalization is necessary to address the problems caused by the repressive financial policies of developing economies. McKinnon (1973) emphasized a fundamental way on the financial savings that guarantees growth and its further emphasize that governments must remove all barriers faced by financial intermediaries. According to Shaw (1973), financial liberalization is characterized by easing the functioning of the financial market by removing all obstacles as described by McKinnon (1973). And this goal is achieved primarily through a policy of financial liberalization in the context of perfect financial markets, which replaces the policy of financial repression as adopted by several developing economies. According to Qazi and Shahida (2013), during the years that followed the publication of the work of the pioneers of the school of financial repression by McKinnon (1973) and Shaw (1973), financial liberalization has been exploited as a step through to end the regime of financial repression and a starting point for the development and sustained growth of the economy. In addition, the liberalization of financial markets also contributes to the development of financial markets by financing sound investments.

They also contended that controlled lending and deposit rates would lead to non-price rationing of credit, which could results into repressed financial system and slow growth of the economy. However, financial liberalization would not only propel financial allocation efficiency of credit from the productive sectors to the unproductive sectors, but would also deepen the financial sector savings (deposits liabilities) role through a positive real interest rate (Nzotta, 2014). This is a complementary hypothesis between real money balance and investment and under this hypothesis, liberalization reforms will cause interest rate to be positive, which in turn increases savings liabilities, and credit allocation efficiency that eventually transform to real investments and increase output and economic growth. Financial liberalization in so many parts of the globe (especially the emerging economies) had led banking sectors to a remarkable number of problems some of which erupted in full-fledged systemic crises as documented in the extensive studies of Kammoun and Mamoghli (2011).

According to the financial liberalization theory, financial repression through interest rate ceilings keeps interest rates low and this discourages savings with the consequence that the quantity of investment is stifled. The quality of investment is also low because the projects that will be undertaken under a regime of repression will have a low rate of return. With financial liberalization, the interest rate will rise, thereby increasing savings and also investment. The increased investment results in the rationing out of low-yielding projects and subsequently undertaking high-yielding projects. Consequently, the quality of investment rises and this will ultimately increase economic growth and development in the economy. McKinnon and Shaw (1973) therefore advocated the liberalization of such repressed financial systems so as to promote economic growth and development. Nzotta and Okereke (2009) earmarked that financial systems have long been recognized to play an important role in economic growth and development and the benefit derivable from a healthy and developed financial system relates to savings mobilisation and efficient financial intermediation roles in the economy.

Empirical Literature
Okpara (2010) investigates the effect of financial liberalization in the form of an increase in real interest rates and financial deepening (M2/GDP ratio) on the rate of economic growth in Nigeria using the endogenous growth model. The study used time series annual data covering the period, 1970-2002. The Error Correction Model (ECM) was used to capture both the short and long-run impact of the variables in the model. The finding shows a low coefficient of the real deposit rate which implies that interest rate liberalization alone is unlikely to expedite economic growth. Sulaiman, Oke and Azeez (2012) examine the impact of financial liberalization on the conduct of banking business and its effect on the real sector growth in Nigeria. Quarterly data were used from 1987q1 to 2011q3 for the following variables: gross domestic product, commercial bank credit to the industrial sector, premium on official exchange rate, lending rate, and inflation rate were analyzed using the vector auto regressive (VAR) methodology. The study shows that financial liberalization has promoted efficiency gains in the banking industry and consequently, the increased growth of credit to the private sector.

Akingunola et al (2013) investigate the effect of financial liberalization on some macroeconomic variables in Nigeria. Real GDP, financial deepening, gross nation saving, foreign direct investment and inflation rate were selected and given pre-post liberalization comparative analysis using the discriminants analysis technique. The pre-liberalization period covers (1965-1986) while the post-liberalization period continued from (1987-2008). The findings show that the variable that impacts most on the economy owing to financial liberalization. The study concludes that financial liberalization positively increases the growth of the economy. Omoke (2010) analyzes the impact of financial liberalization on economic growth in Nigeria through Johansen co-integration test using time series data from (1965-2005). The financial liberalization index was represented by the financial restraints index which includes interest rate controls, reserve requirements and directed credit multiplied by one. The results suggest that financial liberalization has positive and statistically significant impact on economic growth measured by the gross domestic product in Nigeria.

Bashar and Khan (2013) evaluate the impact of liberalization on the country’s economic growth by analyzing quarterly data from (1987Q1-2013Q4) using co-integration and error correction method. The variables used were per-capital, GDP and gross investment. Labour force as a share of population, secondary enrolment ration, trade openness indicator, real rate of interest and net capital inflows, the empirical results show that coefficient of the financial liberalization policy variable (real interest rate) is negative and significant, implying that financial liberalization has had negative effect on Bangladesh’s economic growth. The study discards the fact that financial liberalization foster economic growth as asserted by Mckinnon and Shaw (1973).

Khazri and Djelassi (2011) determine the relationship among capital account liberalization, economic performance and macroeconomic stability in Pakistan using the VAR methodology. Two models were constructed with a de-jure index of financial liberalization which includes GDP nominal, exchange rate, country risk and interest rate and another with a de-facto index of financial integration including GDP nominal exchange rate, inflation rate and interest rate. The study data spans from 1994Q2-2009Q4. Their results
offer no evidence that financial liberalization has generated positive effects on inflation and economic growth.

Qazi and Shahida (2013) investigate the impact of financial liberalization on economic growth in 10 new European Union countries and Turkey between 1995 and 2007. They constructed different financial openness indicators using panel data for different types of financial flows such as foreign direct investment, other investments, portfolio investments, trade openness index as well as other control variables, employing the ordinary Least Square (OLS) method. Their static robust and dynamic panel data estimates indicate clear evidence between the long-run growth and a number of financial liberalization indicators which confirm the anticipations of the new growth theory. Their findings take cognizance of financial liberalization as a policy tool because of its possibility to promote economic growth.

Wizarat (2013) uses panel data to assess the effects of financial liberalization policies in the growth of 19 countries in sub-Saharan Africa for the period 1978-2000. Two indexes and a dummy variable for financial liberalization (assigning value of zero prior to liberalization and 1 after liberalization) were constructed. The control variables were initial income per capita, investment life expectancy degree of openness, and the debt service ratio. The study employed both the Fixed Effects and Dynamic panel Estimator and also Ordinary Least Square Method and Random Effects estimations to assess the sensitivity of the results. The estimate shows a negative significant relationship between economic growth and financial liberalization policies. The study provides evidence to validate the growth-stimulating effect of financial liberalization.

Asamoah (2008) assesses financial liberalization and its impact on savings, investment, and the growth of GDP in Ghana. The data used included monthly savings and interest rates and also yearly and seasonal dummy variables instead of post and pre-liberalization as the dummies. The empirical estimation of 42 observations, January 2000 to June 2003 was evaluated using the ordinary Least Square (OLS) regression analysis. The results show that the rise in interest rate over the years after liberalization of the financial sector has led to a corresponding savings which has a positive impact on the growth of GDP. The findings showed that financial liberalization has increased the rate of capital accumulation and improved efficiency in capital utilization which is both essential for economic growth.

Adam (2011) investigates the impact of Ghana’s financial openness induced growth on poverty using the Johansen Co-integration test and Granger-Causality test. The study was limited to the period from 1970 to 2007. The annual Standard of living Index (SLI) was proxy for poverty and the financial liberalization index was constructed using Principal Component Analysis (PCA). The results showed that there is a positive relationship between growth and standard of living, though it is disproportionate. Also, it provides evidence that there exist a positive long-run relationship between growth and financial liberalization. This means that Ghana’s financial liberalization has contributed positively towards its economic growth.
Kabango and Paloni (2010) evaluate the impact of financial sector liberalization measures on household sector savings rate in South Africa by constructing a continuous time series financial liberalization index which includes total credit to household sector by bank and other financial institutions, foreign investment, market capitalization ratio and real effective exchange rate and the study covered the period 1970/1971-1999/2000. The financial liberalization index along with other determinants of household savings was estimated using the VAR methodology. It was deduced from the findings that the financial liberalization index has a negative impact on household saving rate; due to the fact that the increased credit availability as a result of financial liberalization had led to increase in consumption rather than savings.

**Methodology**

The study applied *ex-post-facto* research design to source requisite information. An *ex-post-facto* research design is a systematic empirical inquiry that requires the use of variables which the researcher does not have the capacity to change its state or direction in the course of the study (Kerlinger, 1973 & Onwumere, 2009). Data for this study were sourced from the Central Bank of Nigeria Statistical Bulletin, 2014, Online Edition available in: www.cenbank.org and also from the National Bureau of Statistics (NBS, Nigeria). Data collected and used for the variables form the basis of this study which covered the period of 29 years (1987-2015). The variables classified in the model specification were drawn from the objective of the study. The variables used for this study are stated as follows: GDP, CPS, ABD, and FDI. Where: GDP = Gross Domestic Product used as the dependent variable of the study. Financial liberalization variables (explanatory variables) include: CPS= Credit to the Private Sector. ABD = Aggregate Bank Deposits. M2 = Broad Money Supply.

**Model Specification**

Model specification is the determination of the endogenous and exogenous variables to be included in the model as well as the a priori expectation about the sign and size of the parameters of the function (Ibenta, 2012). Multivariate linear regression model is used to test the null hypotheses proposed for the study: (i) there is no long-run equilibrium relationship between financial liberalization and performance of the Nigerian economy, (ii) there is no causality between financial liberalization and performance of the Nigerian economy. Based on these hypotheses; a model is developed and the function is stated as:

\[
\text{GDP} = f(\text{CPS}, \text{ABD}, M_2) \]

The equation becomes:

\[
\text{Ln}(\text{GDP}) = \delta_0 + \delta_1 \text{LnABD} + \delta_2 \text{LnCPS} + \delta_3 M_2 + \mu_t \]

Where: GDP = Gross Domestic Product proxy for performance of the Nigerian economy used as dependent variable. CPS = Credit to the Private Sector; ABD = Aggregate Bank Deposits and M2 = Broad Money Supply were used as the explanatory variables for the study. \(\delta_0, \delta_1, \delta_2, \text{and} \delta_3\) are the coefficients of the regression equation. \(\mu\) is the stochastic or error term while Ln is 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, 2003).

**Data Analysis and Results**

The test for stationarity of the variables was done using the Augmented Dicker Fuller (ADF) Unit Root Tests. The results in table 1 show that all the variables are integrated of order one i.e. 1(1) at the 5% level of significance. Notes: (1)*1% level of significance, **5% level of significance, ***10% level of significance.(2)The tests accepted at 5% level of significance. (3)Decision rule - The critical value should be larger than the test statistical value for unit root to exist.

Table 1: Unit Root Tests Analysis

<table>
<thead>
<tr>
<th>Variables</th>
<th>(with constant, no trend)</th>
<th>With Constant and Trend</th>
<th>Order of Integration</th>
<th>Decision</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>At Level</td>
<td>First Difference</td>
<td>At Level</td>
<td>First Difference</td>
</tr>
<tr>
<td>GDP</td>
<td><strong>-3.30472</strong></td>
<td><strong>-10.35238</strong></td>
<td><strong>-4.17040</strong></td>
<td><strong>-10.45640</strong></td>
</tr>
<tr>
<td>ABD</td>
<td>-1.219722</td>
<td><strong>-4.506493</strong></td>
<td>-2.402723</td>
<td><strong>-4.664460</strong></td>
</tr>
<tr>
<td>CPS</td>
<td>-1.123973</td>
<td><strong>-4.074232</strong></td>
<td>-1.388240</td>
<td><strong>-4.065040</strong></td>
</tr>
<tr>
<td>M₂</td>
<td>-2.345833</td>
<td><strong>-4.208397</strong></td>
<td>-1.553294</td>
<td><strong>-4.312462</strong></td>
</tr>
</tbody>
</table>

Critical values

1% -3.4289 -3.4353 -4.0412 -4.0505
5% -2.2472 -2.7499 -3.8426 -3.2468
10% -2.1118 -2.8133 -3.5032 -3.1056

Source: Researcher’s Estimation using E-views 7.0
Note: * (***) denotes rejection of hypothesis at 5% (1%) significance level.

**Test for Co-integration**

Having found that all the variables are integrated and stationary, the next step is to perform Johansen co-integration procedure to ascertain whether GDP, credit to the private sector (CPS), aggregate bank deposit (ABD) and broad money supply (M₂) are co-integrated. The results of the test are presented in table 2 and the null hypothesis of no co-integration among the variables (that is, r=0) is tested against the alternative hypothesis of co-integration among the variables (that is r=1). The null hypothesis of no co-integration is rejected at the 5 percent significance level. However, the null hypothesis that rd" 1 could not be rejected against the alternative r=2, suggesting the presence of a unique co-integrating relationship among variables. Therefore a long run relationship exists among the variables as indicated by the likelihood ratio that is greater than the critical values both at 1 percent and 5 percent level of significance in table 2.

Table 2: Multivariate Johansen’s Co-integration Test Result. Lags interval: 1 to 2

<table>
<thead>
<tr>
<th>Null hypothesis</th>
<th>Alternative hypothesis</th>
<th>Eigen value</th>
<th>Likelihood ratio</th>
<th>Critical values 5%</th>
<th>Critical value 1%</th>
<th>Hypothesized No. of CE(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>r=0</td>
<td>r=1</td>
<td>0.7147</td>
<td>68.5938</td>
<td>47.31</td>
<td>67.31</td>
<td>None **</td>
</tr>
<tr>
<td>rd≤1</td>
<td>r=2</td>
<td>0.5202</td>
<td>36.1206</td>
<td>38.42</td>
<td>40.62</td>
<td>At most 1</td>
</tr>
<tr>
<td>rd≤2</td>
<td>r=3</td>
<td>0.4082</td>
<td>22.03769</td>
<td>19.36</td>
<td>24.31</td>
<td>At most 2</td>
</tr>
<tr>
<td>rd≤3</td>
<td>r=4</td>
<td>0.2247</td>
<td>16.0468</td>
<td>10.62</td>
<td>13.43</td>
<td>At most 3</td>
</tr>
</tbody>
</table>

Source: E-views Econometrics 5.0
Note: * (***) denotes rejection of hypothesis at 5% (1%) significance level.
Vector Error Correction Model
The existence of long-run co-integrating equilibrium provides for short-run fluctuations and in order to straighten out or absolve these fluctuations, an attempt was made to apply the Error Correction model (ECM). The Error Correction coefficient contains information about whether the past values affect the current values of the variable under study. A significant coefficient implies that past equilibrium errors play a role in determining the current outcomes and the information obtained from the ECM is related to the speed of adjustment of the system towards long-run equilibrium and the short-run dynamics are captured through the individual coefficients of the difference terms.

Table 3: Vector Error Correction Estimates

<table>
<thead>
<tr>
<th>Variables:</th>
<th>Coefficient</th>
<th>Std. Error</th>
<th>t-Statistic</th>
<th>Prob.</th>
</tr>
</thead>
<tbody>
<tr>
<td>(ECM,1)</td>
<td>-0.731762</td>
<td>-0.423205</td>
<td>0.000771</td>
<td>-0.010008</td>
</tr>
<tr>
<td>D(GDP(-1))</td>
<td>-0.155939</td>
<td>-1.064438</td>
<td>-0.00384</td>
<td>0.002548</td>
</tr>
<tr>
<td>D(GDP(-2))</td>
<td>-0.490521</td>
<td>-3.865473</td>
<td>0.00163</td>
<td>0.008540</td>
</tr>
<tr>
<td>ABD(-1)</td>
<td>0.200110</td>
<td>-0.98673</td>
<td>0.319891</td>
<td>0.18297</td>
</tr>
<tr>
<td>CPS(-2)</td>
<td>1.013521</td>
<td>-0.611899</td>
<td>-2.72E-07</td>
<td>0.000245</td>
</tr>
<tr>
<td>M2(-3)</td>
<td>1.246699</td>
<td>-0.641147</td>
<td>-5.58E-07</td>
<td>0.000335</td>
</tr>
<tr>
<td>C</td>
<td>0.482898</td>
<td>-2.20139</td>
<td>-1.48661</td>
<td>0.004808</td>
</tr>
</tbody>
</table>

R-squared   | 0.627145    | Mean dependent var | 0.014004 |
Adj. R-squared | 0.581216    | S.D. dependent var | 0.336903 |
S.E. of regression | 4.010042    | Akaike Info. Criterion | 5.855418 |
F-statistic | 6.764345    | Schwarz criterion | 6.304378 |
Log likelihood | -147.5450   | Durbin-Watson Stat. | 1.991375 |
Prob.(F-statistics) | 0.165618   |                     |         |

Source: Eviews Econometrics 7.0

From table 3, the error-correction coefficient is statistically significant and has a negative sign, which confirms a necessary condition for the variables to be co-integrated. This also implies that the speed with which credit to the private sector, aggregate bank deposit and broad money supply, adjust from short-run disequilibrium to changes in performance of the Nigerian economy in order to attain long-run equilibrium is 73% within one year. The coefficient of determination (R²=0.627145), while the adjusted R² = 0.581216 which indicates that about 58% of the variations in economic performance is explained by the combined effect of changes in financial liberalization variables (ABD, CPS, M2) in Nigeria. This implies that a good portion of economic performance trends in Nigeria is explained by financial liberalization variables. The F-statistics of 6.764345 which is statistically significant confirms the relationship between financial liberalization and performance of the economy. Whereas, (F-probability = 0.165618) at 5% rejects the influence of the explanatory variables on the dependent variable because is statistically insignificant and is not zero. Finally, the value of Durbin–Watson (DW=1.99) indicates absence of autocorrelation.

Causality Test
Table 4: Result of Pair wise Granger-Causality Test (1987-2015) with 2-period Lag length

<table>
<thead>
<tr>
<th>Null Hypothesis:</th>
<th>Obs</th>
<th>F-Statistic</th>
<th>Probability</th>
<th>Decision</th>
</tr>
</thead>
</table>

98
ABD does not Granger Cause GDP 27 0.53341 0.59209 No causality
GDP does not Granger Cause ABD 27 0.26105 0.77100 No causality
CPS does not Granger Cause GDP 27 0.71194 0.49881 No causality
GDP does not Granger Cause CPS 27 0.70791 0.50074 No causality
M2 does not Granger Cause GDP 27 0.65778 0.52533 No causality
GDPR does not Granger Cause M2 27 0.19534 0.82362 No causality
CPS does not Granger Cause ABD 27 8.10562 0.00154 Causality
ABD does not Granger Cause CPS 3.43103 0.04552 Causality
M2 does not Granger Cause ABD 27 0.12642 0.88174 No causality
ABD does not Granger Cause M2 0.02083 0.97943 No causality
M2 does not Granger Cause CPS 27 0.22949 0.79634 No causality
CPS does not Granger Cause M2 0.05048 0.95088 No causality

Note: The decision rule of a causality test states that if the probability value of the estimate is higher than the 5 percent (or 0.05) level of significance, we accept the null hypothesis, and vice versa.

To determine the direction of causality between the variables, the Engle and Granger (1987) causality test was performed on the variables as indicated in table 4. The Granger causality investigated the predictive content of one variable beyond that inherent in the explanatory variables itself. The results of the Granger causality test indicate that performance of the Nigerian economy (GDP) has no causality with ABD (aggregate bank deposits), M2 (Broad money supply) and CPS (credit to the private sector). This implies that there is no causality between financial liberalization variables and performance of the Nigerian economy. Moreover, the results also show that aggregate bank balances have bidirectional causality with credit to the private sector. This indicates that, the increase in aggregate bank deposits will have a positive impact on credit to the private sector that will lead to the growth and development of the economy and vice versa.

Conclusion and Recommendations
In any modern economy, a vibrant financial system is a catalyst for economic growth and development (Nzotta, 2014). The study recommends that strong macro-economic policies (monetary and fiscal) should be pursued to maintain and stabilize the economy. One way to achieve this is by laying down strict prudential rules and regulations to strengthen and stabilize the banking industry. The policy towards interest rate should be made such that savings would be stimulated thereby placing more funds in the hands of banks to intermediate to investors seeking funds. Also lending rate should be reasonable so as not to deter investors to borrow and embark on viable investment projects. Government should create conducive business environment to encourage both local and foreign participation in investment thereby engendering economic growth and development. Proper integration of the financial sector should be ensured by the government so that financial units can be strategically positioned and capable to intermediate funds. CBN should implement policies that will increase the flow of investable funds that will improve the capacity of banks to extend credit to the economy. CBN should also promote healthy competition in the banking industry so as to improve the efficiency of banks in rendering financial services to the public.

Contribution to Knowledge
The study was able to modify the vector error correction model and expanded the existing literatures, geographical spread and updated data that will enable researchers and scholars to use it for further studies. Hence, from the results this study has also contributed to knowledge by discovering that Nigerian economy has no direct causality with financial liberalization policy. The factors responsible for this can be traceable to economic and political instability and inability to implement the formulated policies by the regulatory authorities.

References


<table>
<thead>
<tr>
<th>YEAR</th>
<th>GDP at Current Market Rate (N’ Billion)</th>
<th>Aggregate Bank Deposit (N’ Billion)</th>
<th>Credit to the Private Sector (N’ Billion)</th>
<th>Broad Money Supply (M2) (N’ Billion)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1987</td>
<td>193.13</td>
<td>15.09</td>
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**SOURCES:**
(i) National Bureau of Statistics (various issues).