Public Expenditures as a Fiscal Policy Tool for Sustainable Economic Growth: Its Quality Achievement and Employability in Nigeria

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Abstract

Empirical framework on what makes up Quality Public Expenditure (QPE) has been missing. This paper attempted to bridge this gap by creating and developing an empirical-dimensional approach on QPE. This paper employed Vector Error correction model and broad based framework based on a growth-accounting approach, through causal examination between the productive and protective expenditures and the real Gross Domestic product in Nigeria for the sample period 1979-2012. Results show that productive and protective expenditures grow along with the real GDP with the protective expenditures consistently expanding over productive expenditures. Causality was found to run from Gross domestic product to both productive and protective expenditures in Nigeria. The implication is that public expenditure has not been determined based on their productiveness but passively as a fiscal policy instrument in Nigeria. It is strongly recommended that budgetary decisions should take account of the nature of expenditure with particular allocation of resources to identified productive areas. It is this framework that should drive the Federal government's Medium Term Expenditure framework.

Keywords: Quality, Public Expenditure, Fiscal Policy, Economic Growth, Causality.

1. Introduction:

In many developing countries like Nigeria, spending by the government forms a large portion of the nation's total economic activity. Perhaps, the decisions to mobilize resources and allocate resources remain one of the most pervasive challenges among all levels of government. Governments provide public goods such as roads, military forces, public utilities and schools. Private citizens would not voluntarily pay for these services, and therefore businesses have no incentive to produce them. Public finance also enables governments to correct or offset undesirable side effects of a market economy. These side effects are called spill-overs or externalities (Akpan, 2005).

In spite of the fact that public expenditure has increased rapidly during the last two centuries in almost every country, and is spite of its growing role and importance in national economies, the economic effects of public expenditure remains relatively unexplored. Bhatia, (2008) opines that 'the economists have generally concentrated their attention on the theory of taxation. The theory of public expenditure has been confined to that of generalities in terms of the effects of public expenditure on employment and prices." However, recent research efforts have tried to minimize this deficiency in public expenditure studies.

In most countries, data based on public expenditure as a fraction of national output show that public sector has an inevitable trend of growth in the long run (Scully, 1989). In Nigeria public expenditures have been expanding for decades, as Akpan (2005) opines that the observed growth in public spending appears to apply to most countries regardless of their level of economic development.

Nigeria like other developing countries, spend considerable resources on administration, economic services, social services and transfers. While these public expenditures are obviously fundamental to promote social, human and economic development, it is important to understand the sources of public expenditure growth and whether they also directly contribute to economic growth.

The phenomenon of public expenditure growth has been a subject of interest for researchers to find out what causes it and its effects. Wagner (1890) introduced a model that public expenditures are endogenous to economic development, i.e. growth in the economy also causes public sector expenditures to expand. Keynes (1936) and his supporters, on the other hand, raise the thought that during recession times the use of fiscal policies boosts economic activities, i.e. expansionary fiscal policies, expanding public expenditures, increase national output.

Wagner's law and the Keynesian theory present two opposite perceptions in terms of the relationship between public expenditure and growth in national output. While according to Wagner's approach causality runs from growth in national output to public expenditure, the Keynesian approach assumes that causality runs from public expenditure to growth in national output in times of recessions. Endogenous growth theory gives governments a theoretical basis for actively fostering growth.

This study examined the quality of public expenditures by examining the strength of productiveness and

protectiveness of the public expenditures for the period 1979-2008. The focus is on the growth pattern of the public expenditures in the two categories and to determine whether the quality of public expenditure matter for long-run economic growth in Nigeria.

2. Literature Review

2.1 Nature of public Expenditure:

Bhatia (2008) defines Public expenditure as the expenses which a government incurs for (i) its own maintenance, (ii) the society and the economy, and (iii) helping other countries. Public expenditure refers broadly to expenditure made by local, state and national government agencies as distinct from those of private individuals. Public Expenditure also comprises of government payments for the goods and services acquired and for the works done pursuant to their respective laws, social security contributions, interest payments of domestic and foreign debts, general borrowing expenditures, payments resulting from the discounted sale of borrowing instruments, economic, financial and social transfers, donations and grants, and other expenditures.

It is conventional to classify public expenditure into various economic categories. Accounting classification has been there for centuries because it enables the State Executives to maintain an effective control and check over public expenditure and possible leakages and wastage, diversion and misappropriations (Bhatia, 2008). It may be departmental classification or classification according to heads of expenditure. Such a classification is good for auditing and for safeguarding against misappropriations, etc., but it does not help in the understanding of its effects. It is, therefore, difficult to formulate an appropriate expenditure policy on this basis.

Accordingly,Pigou (1989) opines that a distinction between obligatory (or legally committed) expenditure and optional expenditure can only highlight the constraints under which the government's budgetary policy has to work. It cannot bring out fully the possible effects of different expenditure policies. There is an increasing need for useful classification and effective classification of public expenditure to enable the gauging of the economic effects and proper formulation of policies.

Economists classify government expenditures into three main types (Gerson, 1998): (i) Government purchases of goods and services for current use are classed as government consumption; (ii) Government purchases of goods and services intended to create future benefits, such as infrastructure investment or research spending are classed as government investment; and (iii) payments for debt services are classified as transfer payments. The classification of expenditure involves the division of government transactions into categories that would serve the purposes of government. Anyafo (1996) identifies five ways of classifying public expenditures: by levels of government, by ministries, extra-ministerial departments and parastatals, by economic life span, by object of expenditure and by sectoral economic functions. Public expenditures are functionally classified into four in Nigeria (CBN, 2008): Administration, Economic services, Social and Community services, and Transfers with capital and recurrent expenditure compositions.

Administration expenditure comprises of general administration, National Assembly, defence and internal security. Economic services include agriculture, construction, transport and communication and others; social and community services is made up of education, health and others; and transfer comprises of public debt charges, internal and external debts. Such a functional classification helps in analyzing how much the Government is allocating to different functions or purposes in accordance with the annual priorities (Ukwu, 2002).

Infrastructure expenditures refer to the disbursement of funds for the construction of various basic public works of the country, such as roads, ports, airports, water supply, irrigation, and other capital investments, the benefits of which extend to the general public. In the national budget, infrastructure expenditures generally refer to the capital outlays of the ministries (Anyafo, 1996). An alternative characterization of expenditures divides total expenditure into the absorptive and transfer expenditures (Omoruyi, 1988). Absorptive expenditures are those that involve the transfer of funds from government to the private sector in return for goods and services while transfer payments do not have such *quid pro quo* status. In the Nigerian context transfer payments include debt service, pension and gratuities, external obligations and others; absorptive expenditures are those on administration, economic, social and community services.

As far back as 1909, Ely and Wicker (1909) lend support to classification of public expenditure as: (i) Expenditures for fulfilling the Protective functions of the State. Of the general class of expenditures incurred in fulfilling the protective function of the State, the first to be mentioned are those of external security, internal security and social security expenditures; (ii) Expenditures for fulfilling the Developmental function (i.e. education); and (iv) expenditures for the maintenance of Government.

For proper economic understanding of the probable impact of public expenditures on the development process, it is necessary to classify public expenditure in some meaningful way. And since there are varieties of classification system, the most suitable for an analyst would depend on the objectives to be achieved. Aschauer (1989) further recognize classifications of public expenditures in the context of productive and protective

expenditures. Productive expenditure comprises Economic services and Social and Community services, while protective expenditures include Administration and Transfers. Similarly Devarajan, Swaroop, and Zou (1996) note the productive and unproductive public expenditures when they opine that productive expenditures, when used in excess, could become unproductive. The results of their study imply that developing-country governments have been misallocating public expenditures in favour of capital expenditures at the expense of current expenditures.

Productive and unproductive expenditures emphasises that while some expenditures are in the nature of consumption, others are in the nature of investments and help the economy in improving its productive capacity. Bhatia (2008) submits that under the laissez-faire philosophy, the only productive public expenditures are those which are incurred to create and maintain social overheads. Expenditures on administration, defence, justice, law and order, and maintenance of State are unproductive (i.e. protective). It must be noted, however, that these protective expenditures would be really necessary for the productive efficiency of the economy.

Rele and Westerhout (2003) view the classification of public expenditure as clearly of an analytical nature. They distinguish two main categories. Category one includes consumption expenditure, which are the expenditure items that generate benefits in the period in which the expenditure occurs. The second category are investments, which includes all items of public expenditure that generate benefits in the future.

Investment expenditure includes (i) the investments that do not generate a financial return, but rather improve the (future) quality of life; (ii) investments that generate a financial return and lead to an increase of future government revenues (Rele and Westerhout, 2003). These are investments that strengthen the productive capacity of the economy and broaden the revenue base. This expenditure category consists of the investment items that, apart from the initial effect of the expenditure itself, do not affect future budget surpluses. The reason for this is that these investments mainly increase productivity and thus wages. Rele and Westerhout (2003) opine that these investments will increase both expenditure and revenues, leaving (future) primary balances unaffected.

The last of this category consists of the investments that do not lead to an increase of expenditure and therefore improve future government budget balances. There are two types of such investments (Rele and Westerhout, 2003): i) investments that generate a direct financial return through payments by users of the government facilities (e.g. a medical provision that is partially financed by private means); ii) investments that promote labour participation.

The classification of public expenditure into Transfer and non-transfer expenditures was favoured by pigou (1989). Transfer expenditure is a payment without corresponding receipt for goods and services by the State. Examples are interest payments, pensions and unemployment benefits. In these cases, the government is simply transferring the right or claim to use the goods and services to certain sections of the society. In contrast, non-transfer expenditure is that by which the State pays for its purchases or use of goods and services. The use of the resources by the State may be for consumption purposes or for investment purposes. Expenditures on defence and education are non-transfer or real expenditure (Dalton, 1954).

2.2 Public Expenditure and Economic Growth

Public expenditure can help the economy in numerous ways in attaining higher levels of production and growth. The ways in which such effect might be brought about are obviously inter-related. The analysis of these effects can be taken up separately in the context of developed and developing economies (Bhatia, 2008). According to Dalton (1954), public expenditure tends to affect the level of production in three possible ways:

- a) Effect on the Capacity to Work and Save: Public expenditure provides various kinds of social and economic facilities stimulating the capacity to work of the people. Increased capacity implies increased efficiency and greater employment. Level of income and saving tends to rise facilitating greater investment and adding the pace of growth. Dalton opines that 'just as taxation reduces an individual's capacity to work, in the same way public expenditure increases the individual's capacity to work.'
- b) Desire to Work and Save: Public expenditure induces the public's willingness to work and save. As a result, their income and standard of living rise.
- c) Redistribution of Economic Resources: Public expenditure makes the economy balanced by redistributing the income resource from unproductive activities to productive ones. This results in increase in production. This effect varies between development and developing countries.

The developed countries have enough of production capacity, but its optimum utilization because of deficiency of demand does not take place. Consequently, there is low level of production. By increasing public expenditure, aggregate demand can be increased. Wealth can be distributed by increasing public expenditure among those who are willing to spend. Thus increase in demand results in the increase in production. In the event of full employment already existing in the economy, increase in public expenditure will only increase prices instead of production.

In the developing countries, the level of savings being low, investment is low. Social overhead cost such as electricity, transport, irrigation, etc. are underdeveloped. These can be developed by direct public

expenditure. Human capital can be developed by public expenditure on general and technical education, health and medical care facilities. Government can extend it helping hands in promoting capital formation. To the extent this capital formation is financed through foreign aid, the process of economic growth is accelerated. All this would augment production (Jain, Kaur, Gupta and Gupta, 2008).

Bhatia (2008) cautions that to maximize the benefits of public expenditure and to avoid possible harmful incidental effects, firstly, the various projects have long gestation period, in which case the output is delayed. Yet they need to be funded, adding to the inflationary pressures. Care must therefore be taken that inflationary pressures are put under control during the process of development.

Secondly, on account of faulty planning and execution, a lot of wastage can take place in public expenditure. This must be avoided. Thirdly, given the scarce resources, care must be taken to choose the most appropriate and most useful projects. Cost-benefits study may be needed to prioritize the projects. Fourthly, a careful decision has to be taken regarding the volume of public expenditure in various projects and on various measures expected to stimulate investment. The effects of the sources of financing the compositions of public expenditure must be considered.

Public expenditure can also prove helpful in accelerating the rate of economic development. In order to maintain a steady rate of growth in a developed economy, public expenditure can be helpful in maintain the adequate amount of investment and consumption expenditure. So that, the full employment rate of the economic development is steadily maintained.

Jain et al., (2008) aver that in order to accelerate economic development in the developing economies, public expenditure, plays a crucial role. Public expenditure facilitates social overheads, roads, electricity, irrigation, etc. development of private industries and agriculture is thus assisted, markets expand and the rate of investment increases. If public expenditure is made through foreign capital, it may prove more effective. If public expenditure is unproductive, it will only result in price hike.

The dynamic relationship between public expenditure and GDP is relevant for policy in two major respects (Arpaia and Turrini, 2008). First, it improves the understanding of long-term, structural public finance issues. In particular, it could help to assess the impact on public expenditures and then on deficits arising from a structural deceleration in growth or, conversely, from an improvement in the growth potential.

Second, a better understanding of the dynamic relation between government expenditure and GDP helps the comprehension of policy-relevant issues over a short-to medium term horizon. Disposing of a reliable measure of the structural relation between the non-cyclical component of government expenditure and potential output is key to obtain a benchmark against which to evaluate the stance of expenditure policy and then of overall fiscal policy. Arpaia and Turrini (2008) opine that judging whether expenditure policy is expansionary or contractionary requires some idea about how a neutral expenditure policy would look like. However, while there is broad consensus that a neutral revenues policy is such that government revenues move together with output in a proportion depending on structural factors such as the degree of progression of the tax system and the responsiveness of the various tax bases with respect to output (the output elasticity of revenues), no clear a-priori exists for what concerns expenditure policy.

Buti and Van den Noord (2003) adopt a definition of neutral expenditure policy according to which primary public expenditures grow in line with potential output plus expected inflation. Fatas et al. (2003) and Hughes-Hallet et al. (2004) resort to three different definitions of 'neutral fiscal policy': government spending is held constant in volume terms; government expenditures grow in line with revenues; government expenditures grow in proportion with trend GDP.

Thornton (1999) found unidirectional causality from income to public expenditure, Ram's (1986) found some support on the Wagner's proposition. Chang's (2002) study examined five different versions of Wagner's law and found long-run relationship between income and public expenditure with the exception of one sample country. Abizadeh and Gray's (1985) found support on Wagner's law for richer countries. They, however, found no support for the poorest countries.

Ram's (1987) study based on 115 countries over the periods 1950-1980 found that Wagner's hypothesis seems to be supported in about 60 percent of the countries and refuted for the remaining.

On the other hand, Afxentiou and Serletis's (1996) cross-country study analyzed 6 countries and did not find any evidence of Wagner's law. Abizadeh and Yousefi's (1998) study focused on the causality between the growth of public expenditures and economic growth and found no evidence for the proposition. Singh and Sahni's (1984) study based on India over the periods 1950-1981 found no causality to support either Wagner's law or the Keynesian theory.

Fajingbesi and Odusola (1999), in their study analyzed the existing link between public outlays and economic growth in Nigeria with a view to recommending the appropriate expenditure reforms to embark upon using a Vector Error correction technique. The findings showed that real capital expenditure positively and significantly affected real output while the effects of real recurrent expenditure were relatively marginal.

Ram (1986) employed granger causality technique for the direct assessment of the relationship. He

found that over eighty percent of the variations in the growth of GDP are explained by the growth in gross capital formation, labour force and government spending. The coefficient of public expenditure was found to be positively significant which suggests positive impact on private sector output. His result therefore was in conformity with Ram (1986) and Ekpo (1996). However, he found that the overall impact of government spending on growth was negative which again was contrary to the prediction by Ram (1986). His causality results revealed a bi-directional relationship between growth and government size. However, the level of significance of the former was higher suggesting the link from growth to government expenditure is stronger as would be expected on the basis of Wagner's hypothesis.

Other studies are more specifically focused at the empirical estimation of elasticity of government expenditure with respect to output, often with the explicit aim of providing an empirical test of the "Wagner law", i.e., the hypothesis that government expenditure increases more than proportionally with economic activity. Bohl (1996), Payne and Ewing (1996), Chang (2002) are among empirical studies on the Wagner's law. The Wagner law has been tested in different ways. In early time series analyses, government expenditure is regressed on GDP without taking into account the dynamic properties of the series (Ram, 1987). More recently, new test specifications have been implemented taking into consideration non-stationarity and co-integration. This allows for a more structured modeling of expenditure dynamics introducing the distinction between a long-term relationship and short term adjustment. Kolluri et al (2000), Akitoby et al. (2004) and Wahab (2004) are among the most recent cross-country analysis allowing for dynamic specifications. These studies include the empirical analyses most closely related to that provided in this research work.

Public expenditures for infrastructures such as transport networks, water and sewer systems, for education and for defence spending are quoted as typical examples of possibly growth-enhancing publicly provided inputs (Nijkamp and Poot, 2004). Apart from these typical examples of potentially growth-boosting public expenditures, other government-provided goods exist that bear a resemblance to Meade's creation of atmosphere. Meade's creation of atmosphere corresponds to a public input that is factor-augmenting. For example, security and social and political stability can create an atmosphere that is favourable to economic growth. Social as well as security measures can contribute to this public input by reducing the risks of criminal offences and social unrest so that a safe and stable institutional environment, e.g. guaranteeing property rights, for economic activity, can be created (Gerson, 1998; Nijkamp and Poot, 2004). Moreover, social expenditure may have a positive impact on human capital accumulation, for example, by providing financial assistance to enable access to the education system. Overall, there is a whole range of types of government expenditures that may be growth enhancing (World Bank, 2002). This supports the assertion that the composition of government outlays may be more relevant than the level (Nijkamp and Poot, 2004).

Empirical estimates from the Aigbokhan (1996) study reports a bi-directional causality between government total expenditure and national income. Using the Engle Granger two step procedure and standard causality tests, Essien (1997) found that the variables (public spending and real income) were not cointegrated and hence could not establish a long run relationship. In addition, causality tests performed on his models confirmed that public expenditure does not cause growth in income and there was no feedback mechanism.

More recently, Aregbeyen (2006) using Johansen cointegration and standard causality tests found a unidirectional causality from national income to total public expenditure i.e. a support for Wagner's Law. There is bi-directional causality between non-transfer public expenditure and national income. In contrast, the causality from national income to non-transfer public expenditure was found to be stronger than the reverse direction following variance decomposition analysis. Babatunde (2007) tests Wagner's Law for Nigeria using annual time series data between 1970 and 2006. It adopts the Bounds Test approach based on Unrestricted Error Correction Model and Granger causality tests. Empirical results from the Bounds Test indicate that there exists no long-run relationship between government expenditure and output in Nigeria but found a weak empirical support in the proposition by Keynes. There is a lack of consensus on both the empirical impacts of public expenditure on growth. In addition, economic theory does not provide a well developed methodology for the incorporation of public expenditures in standard growth models. None of these studies considered the functional composition of public expenditures such as economic services, administration, social services and transfers.

3. Methodology

Public finance data on public expenditure published in the Central Bank of Nigeria (Special) statistical bulletin (2008) was used for the study periods 1979-2008. The stationarity properties of the time series data was investigated using the Augmented Dickey-Fuller (ADF) (1981) test. The Engle-Granger's (1987) cointegration test is conducted to determine whether a group of non-stationary time series variables used for this study is cointegrated or not. Finally, the direction of causality for the hypotheses using Vector Error Correction (VEC) Model based causality test is examined. The Vector Error Correction model specifications for the hypotheses are stated in model 1 and 2 as follows:

| RGDP and Productive Expenditure | |
|--|-----|
| $\Delta lnRGDP = \beta_0 + \beta_1 \Delta lnRGDP_{t-1} + \beta_2 lnPRODEX_{t-i} + Ect - 1 + \varepsilon_{t2}$ | (1) |
| $\Delta lnPRODEX = \alpha_0 + \alpha_1 \Delta lnPRODEX_{t-1} + \alpha_2 lnRGDP_{t-i} + Ect - 1 + \sigma_{t1}$ | (2) |
| RGDP and Protective Expenditure | |
| $\Delta lnRGDP = \beta_0 + \beta_1 \Delta lnRGDP_{t-1} + \beta_2 lnPROTEX_{t-1} + Ect - 1 + \varepsilon_{t2}$ | (1) |
| $\Delta lnPROTEX = \alpha_0 + \alpha_1 \Delta lnPROTEX_{t-1} + \alpha_2 lnRGDP_{t-1} + Ect - 1 + \varepsilon_{t1}$ | (2) |

4. Results and Discussion

The magnitude of public expenditure is one of the applied ways to measure the size of government in the whole economy and the real GDP. Figure 1 shows the public expenditure as percentage of the RGDP. From the phenomenal growth between the 1980s and 1990, it began to wittiness a decline since 1993.



Figure 1 Public Expenditure as percentage of RGDP

Table 1 (see appendix) shows public expenditure compositions of the Federal Government of Nigeria for the period 1979-2008. These data reflect outlays each year for federal expenditures. The ratios of various categories of public expenditures to real Gross Domestic Product (RGDP) in each year provide a rough indication of the relative importance of the public sector's economic activity for each year.

In 1979, public expenditure accounted for 34 percent of RGDP; by 2008, the public expenditure forms 25 percent only. In the 1980s, 1990s, and 2000-2008 public expenditure averaged 52.3, 49.7 and 37.1 percent of RGDP. The average public expenditure of RGDP for the 30-year period is 45 percent. It records its peaks in 1984 (72 percent), 1984 (74 percent), 1991 (72 percent) and 1992 (76 percent). Since the beginning of the period, public expenditure and GDP had experienced with an increasing trend, except in the early 1980's where a decline occurred. Comparing long-run increases in public expenditure (PEXP) with the trend of real gross domestic product (RGDP), it seems that they have a one-way directional trend which gives the impression of what Wagner's law suggests. However, this is an early assumption and cannot here be interpreted further.



Figure 2: Productive and Protective Expenditures and RGDP

Figure 2 depicts the increasing one-directional trend of both productive (PRODEX) and protective (PROTEX) expenditures, growing along with the real GDP. However, the protective expenditures (i.e. administration and transfer payments) have expanded consistently over productive expenditures (i.e. Economic and social services expenditure) between 1979 and 2008. A casual observation shows that the growth pattern of public expenditure has been more on protective than productive expenditures. This may explain the passive role of public expenditure as instrument of fiscal policy in Nigeria.

Breaking down government expenditures into a few major components will help isolate the kinds of expenditures that are most responsible for the increased importance of the public sector of the economy.

Administrative expenditures recorded its peak of 35 percent of the aggregate expenditure in 2006 and a minimum of 10 percent in 2005. The average administrative expenditure for the 30 years period is 21 percent (Appendix 1, Table 2). Public expenditure on Economic services recorded its peak of 44 percent of the aggregate expenditure in 1998 and a minimum of 6 percent in 1992. The average economic services expenditure for the 30 years period is 22 percent (Appendix 1, Table 3).

Public Expenditure on Social Services recorded its peak of 18 percent of the aggregate expenditure in 1980 and 2002 and a minimum of 4 percent in 1987 and 1992. The average social services expenditure for the 30 years period is 11 percent. Social services expenditure records the lowest among the four functional public expenditure classifications (Appendix 1, Table 4).

Public Expenditure on transfers recorded its peak of 76 percent of the aggregate expenditure in 1992 and 2002 and a minimum of 22 percent in 2002. The average transfers for the 30 years period is 45 percent. Transfers account for the highest public expenditure for the sample period (Appendix 1, Table 5).

The structure of the Nigerian public expenditure has been more on protective services and productive expenditures. Productive expenditure accounts for 20.3 percent of the aggregate expenditures for the period 1979-2008. Protective expenditure accounts for 79.7 percent. This structure has effects on the Nigeria's economic growth and development (Appendix 1, Table 6).

Public Expenditure on infrastructural development recorded its peak of N960, 900 million in 2008 and a minimum of N4, 101 million in 1984 (Appendix 1, Table 7). Recurrent expenditure accounted for 65.3 percent while capital expenditure accounts for 34.7 percent. Recurrent expenditure recorded its peak of N2,117,400 million in 2008 and a minimum of N3, 187 million in 1979 (Appendix 1, Table 8).

4.1 Stationarity test

Table 1 shows the ADF test results of the time series. The results suggest that the null-hypothesis (H0) of unit root can be rejected in the first difference, I(1) and therefore all the series (i.e. LPRODEX, LPROTEX) are stationary in the first difference. Since the all series are clearly stationary in I(1), the variables of each version of Wagner's Law can be integrated of order one.

Table 1: ADF Unit Root Tests

| Variable | ADF Test Statistics** | Stationarity |
|----------|-------------------------|--------------|
| LNPRODEX | -2.627049 [1] (-1.9540) | I(1) |
| LNPROTEX | -2.507572 [1] (-1.9540) | I(1) |

* All regression estimations and test results are obtained by using Eviews 4.0 econometric software.

** ADF statistics with intercept are obtained by taking Akaike Information Criterion (AIC) into account. Lagged differences are shown in brackets and significant. MacKinnon critical values at 5% level are shown in parenthesis.

4.2 Cointegration test result

The results pertaining to cointegration analysis are furnished in Table 2.

Table 2: Engle-Granger Residual Based Co-integration Test Results

| <u> </u> | U | | | |
|-----------------|------------|-----------|--------------------|--------------------|
| Variables | Eigenvalue | Max-Eigen | Trace Statistics** | 5 Percent Critical |
| | | statistic | | value |
| LNRGDP LNPRODEX | 0.940411 | 78.96807 | 86.30692 | 25.32 |
| LNRGDP LNPROTEX | 0.941296 | 79.38713 | 86.41485 | 25.32 |

* All regression estimations and test results are obtained by using Eviews 4.0 econometric software.

** denotes rejection of the hypothesis at the 5%.

Trace test indicates 1 cointegrating equation(s) at 5%

The cointegration test results suggest that the null-hypothesis of no cointegration between PRODEX, PROTEX and RGDP is rejected. Since the variables are stationary, integrated of order one, and cointegrated. Both Akaike Information and Schwartz Bayesian criteria suggest adequacy of setting the order of VAR at 1. Generally they exit cointegration between all the variables.

4.3 Vector Error Correction Model-Based Causality Result

The estimated cointegrating vectors in Table 3 indicate that causality runs from real GDP to both productive and Protective expenditures.

| MODEL 1 | LNRGDP | LNPRODEX | |
|---------|------------|------------|-------------------------------------|
| | -0.752765 | 0.343877 | Courselity must from BCDB to BBODEV |
| | (0.08035) | (0.23041) | |
| | [-9.36849] | [1.49246] | |
| MODEL 2 | LNRGDP | LNPROTEX | |
| | -0.008205 | 0.010774 | Causality must from BCDD to DBOTEV |
| | (0.00321) | (0.03735) | |
| | [-2.55997] | [0.28848] | |

Table 3 Vector Error Correction Model-Based Causality

* All regression estimations and test results are obtained by using Eviews 4.0 econometric software.

* Standard errors in () & t-statistics in []

On the basis of the results we found that there is a long-run relationship between public expenditure and real GDP. They exists causality between real Gross Domestic Product and Productive and Protective expenditures. The relationship is Wagnerian for productive and protective expenditure. Therefore, data based on the periods of 1979-2008 provide evidence, in support of earlier findings of Abizadeh and Gray (1985); Ram (1986, 1987); Thornton (1999); Chang (2002); Aregbeyen (2006). But parallel to Singh and Sahni (1984); Aigbokhan (1996); Abizadeh and Yousefi (1998); and Babatunde (2007).

5. Conclusion

This study examines how quality public expenditure can be attained and how it can be employed as a fiscal policy to support sustained long-run economic growth. The question has been what should be the Federal

government Medium-Term Expenditure Framework (MTEF). This study adopts the clasification of public expenditures into productive and protective expenditures as a framework to resource allocations and determining the impact of public expenditures on long-run economic growth.

The QPE framework focuses on fiscal policy's role for driving the long-run growth potential. The important role that fiscal policy should play in this respect has already been recognized in the MTEF. There is need to check the size of governments and it effects on economic growth, in particular, the productive expenditures should largely determine the size of government than the protective expenditure especially in developing economies. There is need for sound and sustainable fiscal positions as preconditions for growth over the medium and long run.

While the quality of public expenditure can impair growth, an important conditioning factor is the composition and efficiency of public expenditure. Both theoretical and empirical research indicates that growth can be supported when public expenditure is oriented to towards productive investment. This can be particularly relevant for investment in human capital (through education and health spending), technical progress (R&D spending) and public infrastructure. However, evidence also suggests that the link between the amount of spending in these areas and economic growth is not automatic, but depends largely on the ability to achieve the envisaged outcomes (e.g. higher education attainment, more private investment in R&D) and overcoming existing market failures without creating new distortions. Thus, high efficiency and effectiveness of public spending are key to maximizing the potential of government outlays.

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| Table 1 Public Expenditures and RGDP of the Federal Government (1979-2008). | | | | | |
|---|--|-------------------------|--------------------|--|--|
| | Aggregate | | Percentage of RGDP | | |
| Vears | Public Expenditure (N ² Million) | Real GDP (N'Million) | | | |
| 1070 | 7407 | 20048 | 34 | | |
| 1979 | 1407 | 29940 | 27 | | |
| 1980 | 14970 | 31547 | 27 | | |
| 1981 | 11413 | 205222 | 38 | | |
| 1982 | 11923 | 199685 | 54 | | |
| 1983 | 9637 | 185598 | 40 | | |
| 1984 | 9928 | 183563 | 72 | | |
| 1985 | 13042 | 201036 | 64 | | |
| 1986 | 16224 | 205971 | 74 | | |
| 1987 | 22020 | 204807 | 57 | | |
| 1988 | 27750 | 219876 | 46 | | |
| 1989 | 41030 | 236730 | 51 | | |
| 1990 | 60269 | 267550 | 67 | | |
| 1991 | 66584 | 265379 | 72 | | |
| 1992 | 92799 | 271366 | 76 | | |
| 1993 | 191229 | 274833 | 57 | | |
| 1994 | 160893 | 275451 | 53 | | |
| 1995 | 248768 | 281407 | 54 | | |
| 1996 | 337416 | 293745 | 38 | | |
| 1997 | 428215 | 302023 | 27 | | |
| 1998 | 487114 | 310890 | 30 | | |
| 1999 | 947690 | 312184 | 23 | | |
| 2000 | 701052 | 329179 | 36 | | |
| 2001 | 1017997 | 356994 | 34 | | |
| 2002 | 1018176 | 433204 | 22 | | |
| 2003 | 1225988 | 477533 | 39 | | |
| 2004 | 1384001 | 527576 | 40 | | |
| 2005 | 1743200 | 561931 | 34 | | |
| 2006 | 1842588 | 595822 | 34 | | |
| 2007 | 2348593 | 634251 | 33 | | |
| 2008 | 2078200 | 674880 | 25 | | |

APENDICES

| Table 2. Tuble Exp | chalture on Administrati | | 3) | |
|--------------------|--------------------------|--------------|---------|------------|
| Years | RECUR EXP. | CAPITAL EXP. | Total | % of APEXP |
| 1979 | 452 | 770 | 1222 | 16 |
| 1980 | 595 | 1501 | 2096 | 14 |
| 1981 | 914 | 720 | 1634 | 14 |
| 1982 | 1039 | 385 | 1424 | 12 |
| 1983 | 897 | 1098 | 1995 | 21 |
| 1984 | 1100 | 263 | 1363 | 14 |
| 1985 | 1430 | 460 | 1890 | 14 |
| 1986 | 1453 | 265 | 1718 | 11 |
| 1987 | 3843 | 1816 | 5659 | 26 |
| 1988 | 5778 | 1899 | 7677 | 28 |
| 1989 | 6271 | 2618 | 8889 | 22 |
| 1990 | 6540 | 2920 | 9460 | 16 |
| 1991 | 6954 | 3345 | 10299 | 15 |
| 1992 | 8685 | 5119 | 13804 | 15 |
| 1993 | 30570 | 8082 | 38652 | 20 |
| 1994 | 20536 | 8785 | 29321 | 18 |
| 1995 | 28758 | 13338 | 42096 | 17 |
| 1996 | 46547 | 14864 | 61411 | 18 |
| 1997 | 56184 | 49549 | 105733 | 25 |
| 1998 | 50679 | 35270 | 85949 | 18 |
| 1999 | 183637 | 42737 | 226374 | 24 |
| 2000 | 144530 | 53280 | 197810 | 28 |
| 2001 | 180801 | 49255 | 230056 | 23 |
| 2002 | 266510 | 73577 | 340087 | 33 |
| 2003 | 307973 | 87959 | 395932 | 32 |
| 2004 | 306831 | 137776 | 444607 | 32 |
| 2005 | 434661 | 171604 | 171604 | 10 |
| 2006 | 458283 | 185224 | 643507 | 35 |
| 2007 | 564512 | 220900 | 785412 | 33 |
| 2008 | 731000 | 287100 | 1018100 | 33 |

Table 2. Public Expenditure on Administration N' Million (1979-2008)

| Table 5. Tublic LAP | cenditure on Economie S | | 2000) | |
|---------------------|-------------------------|--------------|--------|------------|
| Years | RECUR EXP. | CAPITAL EXP. | Total | % of APEXP |
| 1979 | 48 | 2812 | 2860 | 39 |
| 1980 | 109 | 5981 | 6090 | 41 |
| 1981 | 176 | 3629 | 3805 | 33 |
| 1982 | 200 | 2543 | 2743 | 23 |
| 1983 | 172 | 2291 | 2463 | 26 |
| 1984 | 211 | 656 | 867 | 9 |
| 1985 | 275 | 893 | 1168 | 9 |
| 1986 | 279 | 1100 | 1379 | 8 |
| 1987 | 695 | 2160 | 2855 | 13 |
| 1988 | 1221 | 2129 | 3350 | 12 |
| 1989 | 1419 | 3926 | 5345 | 13 |
| 1990 | 1614 | 3486 | 5100 | 8 |
| 1991 | 1303 | 3145 | 4448 | 7 |
| 1992 | 3080 | 2337 | 5417 | 6 |
| 1993 | 7750 | 18345 | 26095 | 14 |
| 1994 | 3910 | 27103 | 31013 | 19 |
| 1995 | 5918 | 43149 | 49067 | 20 |
| 1996 | 4753 | 117829 | 122582 | 36 |
| 1997 | 6200 | 169613 | 175813 | 41 |
| 1998 | 11575 | 200862 | 212437 | 44 |
| 1999 | 87077 | 323581 | 410658 | 43 |
| 2000 | 28592 | 111509 | 140101 | 20 |
| 2001 | 53009 | 259758 | 312767 | 31 |
| 2002 | 52951 | 215333 | 268284 | 26 |
| 2003 | 96071 | 97982 | 194053 | 16 |
| 2004 | 58779 | 167722 | 226501 | 16 |
| 2005 | 64307 | 265035 | 329342 | 19 |
| 2006 | 67802 | 262207 | 330009 | 18 |
| 2007 | 83518 | 367900 | 451418 | 19 |
| 2008 | 313800 | 504400 | 818200 | 27 |

Table 3: Public Expenditure on Economic Services N' Million (1979-2008)

| Table 4: Fublic Ex | penditure on Social Sei | vices IN Willion (1979-2 | 008) | |
|--------------------|-------------------------|--------------------------|--------|------------|
| Years | RECUR EXP. | CAPITAL EXP. | Total | % of APEXP |
| 1979 | 214 | 613 | 827 | 11 |
| 1980 | 271 | 2457 | 2728 | 18 |
| 1981 | 295 | 1299 | 1594 | 14 |
| 1982 | 335 | 968 | 1303 | 11 |
| 1983 | 289 | 1027 | 1316 | 14 |
| 1984 | 354 | 238 | 592 | 6 |
| 1985 | 461 | 1154 | 1615 | 12 |
| 1986 | 468 | 655 | 1123 | 7 |
| 1987 | 298 | 619 | 917 | 4 |
| 1988 | 2114 | 1726 | 3840 | 14 |
| 1989 | 4230 | 1845 | 6075 | 15 |
| 1990 | 3396 | 2096 | 5492 | 9 |
| 1991 | 2677 | 1492 | 4169 | 6 |
| 1992 | 1336 | 2133 | 3469 | 4 |
| 1993 | 14660 | 3575 | 18235 | 10 |
| 1994 | 10085 | 4994 | 15079 | 9 |
| 1995 | 13820 | 9216 | 23036 | 9 |
| 1996 | 15989 | 8656 | 24645 | 7 |
| 1997 | 22060 | 6902 | 28962 | 7 |
| 1998 | 21441 | 23366 | 44807 | 9 |
| 1999 | 71371 | 17254 | 88625 | 9 |
| 2000 | 84785 | 27965 | 112750 | 16 |
| 2001 | 79630 | 53336 | 132966 | 13 |
| 2002 | 152185 | 32467 | 184652 | 18 |
| 2003 | 102608 | 55736 | 158344 | 13 |
| 2004 | 134385 | 30073 | 164458 | 12 |
| 2005 | 151643 | 71361 | 223004 | 13 |
| 2006 | 159884 | 78681 | 238565 | 13 |
| 2007 | 196945 | 131100 | 328045 | 14 |
| 2008 | 332900 | 152100 | 485000 | 16 |

Table 4: Public Expenditure on Social Services N' Million (1979-2008)

| Tuble 5. Tublie Exp | | Willion (1979-2000) | | |
|---------------------|------------|---------------------|--------|--------|
| Years | RECUR EXP. | CAPITAL EXP. | Total | %APEXP |
| 1979 | 2473 | 25 | 2498 | 34 |
| 1980 | 3831 | 225 | 4056 | 27 |
| 1981 | 3461 | 919 | 4380 | 38 |
| 1982 | 3932 | 2521 | 6453 | 54 |
| 1983 | 3393 | 470 | 3863 | 40 |
| 1984 | 4162 | 2944 | 7106 | 72 |
| 1985 | 5411 | 2958 | 8369 | 64 |
| 1986 | 5497 | 6507 | 12004 | 74 |
| 1987 | 10811 | 1778 | 12589 | 57 |
| 1988 | 10296 | 2587 | 12883 | 46 |
| 1989 | 14075 | 6646 | 20721 | 51 |
| 1990 | 24670 | 15547 | 40217 | 67 |
| 1991 | 27309 | 20359 | 47668 | 72 |
| 1992 | 39933 | 30176 | 70109 | 76 |
| 1993 | 83747 | 24500 | 108247 | 57 |
| 1994 | 55444 | 30036 | 85480 | 53 |
| 1995 | 79133 | 55436 | 134569 | 54 |
| 1996 | 57201 | 71577 | 128778 | 38 |
| 1997 | 74119 | 43588 | 117707 | 27 |
| 1998 | 94403 | 49518 | 143921 | 30 |
| 1999 | 107577 | 114456 | 222033 | 23 |
| 2000 | 203693 | 46698 | 250391 | 36 |
| 2001 | 265860 | 76348 | 342208 | 34 |
| 2002 | 225153 | 0 | 225153 | 22 |
| 2003 | 477648 | 11 | 477659 | 39 |
| 2004 | 532705 | 15730 | 548435 | 40 |
| 2005 | 573089 | 11500 | 584589 | 34 |
| 2006 | 604234 | 26273 | 630507 | 34 |
| 2007 | 744295 | 39423 | 783718 | 33 |
| 2008 | 739700 | 17300 | 757000 | 25 |

Table 5: Public Expenditure on Transfers N' Million (1979-2008)

| Table 6. Draduative and | Protoctivo Expondituro | NP Million | (1070, 2008) | |
|-------------------------|-------------------------|------------------|--------------|--|
| Table 0. Productive and | Protective Experiatures | SIN IVIIIIIOII (| (19/9-2008) | |

| | Productive Sector | | Protective Sector | | | |
|------------------|-------------------|-------------|-------------------|-------------|-----------|----------|
| Years | Economic Exp. | Social Exp. | Total | Admin. Exp. | Transfers | Total |
| 1979 | 2860 | 4839 | 7699 | 12538 | 20237 | 32775 |
| 1980 | 6090 | 8070 | 14160 | 22230 | 36390 | 58620 |
| 1981 | 3805 | 5786 | 9591 | 15377 | 24968 | 40345 |
| 1982 | 2743 | 4725 | 7468 | 12193 | 19661 | 31854 |
| 1983 | 2463 | 4446 | 6909 | 11355 | 18264 | 29619 |
| 1984 | 867 | 2851 | 3718 | 6569 | 10287 | 16856 |
| 1985 | 1168 | 3153 | 4321 | 7474 | 11795 | 19269 |
| 1986 | 1379 | 3365 | 4744 | 8109 | 12853 | 20962 |
| 1987 | 2855 | 4842 | 7697 | 12539 | 20236 | 32775 |
| 1988 | 3350 | 5338 | 8688 | 14026 | 22714 | 36740 |
| 1989 | 5345 | 7334 | 12679 | 20013 | 32692 | 52705 |
| 1990 | 5100 | 7090 | 12190 | 19280 | 31470 | 50750 |
| 1991 | 4448 | 6439 | 10887 | 17326 | 28213 | 45539 |
| 1992 | 5417 | 7409 | 12826 | 20235 | 33061 | 53296 |
| 1993 | 26095 | 28088 | 54183 | 82271 | 136454 | 218725 |
| 1994 | 31013 | 33007 | 64020 | 97027 | 161047 | 258074 |
| 1995 | 49067 | 51062 | 100129 | 151191 | 251320 | 402511 |
| 1996 | 122582 | 124578 | 247160 | 371738 | 618898 | 990636 |
| 1997 | 175813 | 177810 | 353623 | 531433 | 885056 | 1416489 |
| 1998 | 212437 | 214435 | 426872 | 641307 | 1068179 | 1709486 |
| 1999 | 410658 | 412657 | 823315 | 1235972 | 2059287 | 3295259 |
| 2000 | 140101 | 142101 | 282202 | 424303 | 706505 | 1130808 |
| 2001 | 312767 | 314768 | 627535 | 942303 | 1569838 | 2512141 |
| 2002 | 268284 | 270286 | 538570 | 808856 | 1347426 | 2156282 |
| 2003 | 194053 | 196056 | 390109 | 586165 | 976274 | 1562439 |
| 2004 | 226501 | 228505 | 455006 | 683511 | 1138517 | 1822028 |
| 2005 | 329342 | 331347 | 660689 | 660689 | 1321378 | 1982067 |
| 2006 | 330009 | 332015 | 662024 | 994039 | 1656063 | 2650102 |
| 2007 | 451418 | 453425 | 904843 | 1358268 | 2263111 | 3621379 |
| 2008 | 818200 | 820208 | 1638408 | 2458616 | 4097024 | 6555640 |
| Total (30 years) | 4146230 | 4206035 | 8352265 | 12226953 | 20579218 | 32806171 |

Source: Central Bank of Nigeria (2008), Statistical Bulletin: 50 Years Special Anniversary Edition. Author's Classification of Public Expenditure.

| racie /. cupitai | Lipenereeres it itili | 1011 (1979 = 0000) | | | |
|------------------|-----------------------|--------------------|--------|-----------|---------|
| Years | Admin. | Economic | Social | Transfers | Total |
| 1979 | 770 | 2812 | 613 | 25 | 4220 |
| 1980 | 1501 | 5981 | 2457 | 225 | 10164 |
| 1981 | 720 | 3629 | 1299 | 919 | 6567 |
| 1982 | 385 | 2543 | 968 | 2521 | 6417 |
| 1983 | 1098 | 2291 | 1027 | 470 | 4886 |
| 1984 | 263 | 656 | 238 | 2944 | 4101 |
| 1985 | 460 | 893 | 1154 | 2958 | 5465 |
| 1986 | 265 | 1100 | 655 | 6507 | 8527 |
| 1987 | 1816 | 2160 | 619 | 1778 | 6373 |
| 1988 | 1899 | 2129 | 1726 | 2587 | 8341 |
| 1989 | 2618 | 3926 | 1845 | 6646 | 15035 |
| 1990 | 2920 | 3486 | 2096 | 15547 | 24049 |
| 1991 | 3345 | 3145 | 1492 | 20359 | 28341 |
| 1992 | 5119 | 2337 | 2133 | 30176 | 39765 |
| 1993 | 8082 | 18345 | 3575 | 24500 | 54502 |
| 1994 | 8785 | 27103 | 4994 | 30036 | 70918 |
| 1995 | 13338 | 43149 | 9216 | 55436 | 121139 |
| 1996 | 14864 | 117829 | 8656 | 71577 | 212926 |
| 1997 | 49549 | 169613 | 6902 | 43588 | 269652 |
| 1998 | 35270 | 200862 | 23366 | 49518 | 309016 |
| 1999 | 42737 | 323581 | 17254 | 114456 | 498028 |
| 2000 | 53280 | 111509 | 27965 | 46698 | 239452 |
| 2001 | 49255 | 259758 | 53336 | 76348 | 438697 |
| 2002 | 73577 | 215333 | 32467 | 0 | 321377 |
| 2003 | 87959 | 97982 | 55736 | 11 | 241688 |
| 2004 | 137776 | 167722 | 30073 | 15730 | 351301 |
| 2005 | 171604 | 265035 | 71361 | 11500 | 519500 |
| 2006 | 185224 | 262207 | 78681 | 26273 | 552385 |
| 2007 | 220900 | 367900 | 131100 | 39423 | 759323 |
| 2008 | 287100 | 504400 | 152100 | 17300 | 960900 |
| Total | 1462479 | 3189416 | 725104 | 716056 | 6093055 |

Table 7: Capital Expenditures N' Million (1979-2008)

| | in Expenditures it | Willion (1777-2000) |) | | |
|-------|--------------------|---------------------|---------|-----------|----------|
| Years | Admin. | Economic | Social | Transfers | Total |
| 1979 | 452 | 48 | 214 | 2473 | 3187 |
| 1980 | 595 | 109 | 271 | 3831 | 4806 |
| 1981 | 914 | 176 | 295 | 3461 | 4846 |
| 1982 | 1039 | 200 | 335 | 3932 | 5506 |
| 1983 | 897 | 172 | 289 | 3393 | 4751 |
| 1984 | 1100 | 211 | 354 | 4162 | 5827 |
| 1985 | 1430 | 275 | 461 | 5411 | 7577 |
| 1986 | 1453 | 279 | 468 | 5497 | 7697 |
| 1987 | 3843 | 695 | 298 | 10811 | 15647 |
| 1988 | 5778 | 1221 | 2114 | 10296 | 19409 |
| 1989 | 6271 | 1419 | 4230 | 14075 | 25995 |
| 1990 | 6540 | 1614 | 3396 | 24670 | 36220 |
| 1991 | 6954 | 1303 | 2677 | 27309 | 38243 |
| 1992 | 8685 | 3080 | 1336 | 39933 | 53034 |
| 1993 | 30570 | 7750 | 14660 | 83747 | 136727 |
| 1994 | 20536 | 3910 | 10085 | 55444 | 89975 |
| 1995 | 28758 | 5918 | 13820 | 79133 | 127629 |
| 1996 | 46547 | 4753 | 15989 | 57201 | 124490 |
| 1997 | 56184 | 6200 | 22060 | 74119 | 158563 |
| 1998 | 50679 | 11575 | 21441 | 94403 | 178098 |
| 1999 | 183637 | 87077 | 71371 | 107577 | 449662 |
| 2000 | 144530 | 28592 | 84785 | 203693 | 461600 |
| 2001 | 180801 | 53009 | 79630 | 265860 | 579300 |
| 2002 | 266510 | 52951 | 152185 | 225153 | 696799 |
| 2003 | 307973 | 96071 | 102608 | 477648 | 984300 |
| 2004 | 306831 | 58779 | 134385 | 532705 | 1032700 |
| 2005 | 434661 | 64307 | 151643 | 573089 | 1223700 |
| 2006 | 458283 | 67802 | 159884 | 604234 | 1290203 |
| 2007 | 564512 | 83518 | 196945 | 744295 | 1589270 |
| 2008 | 731000 | 313800 | 332900 | 739700 | 2117400 |
| Total | 3857963 | 956814 | 1581129 | 5077255 | 11473161 |

Table 8: Recurrent Expenditures N' Million (1979-2008)

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