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# Disaggregated Government Spending on Infrastructure and Poverty Reduction in Nigeria Kemisola Osundina<sup>1</sup>, Chidinma<sup>2</sup> and OSUNDINA<sup>3</sup> <sup>1</sup> BABCOCK UNIVERSITY, OGUN STATE, NIGERIA *Received: 8 December 2013 Accepted: 5 January 2014 Published: 15 January 2014*

#### 7 Abstract

This study examined the relationship between government spending on infrastructure and 8 poverty reduction in Nigeria. Per capita income was used to proxy poverty reduction, 9 government spending on infrastructure was proxied by; government spending on building and 10 construction, government spending on transportation, government spending on education and 11 government spending on health. Time series data of 43 years were employed and Augmented 12 Dickey Fuller unit root test showed that the variables were not stationary at level but were 13 stationary at first difference the order of integration was I(1). The lag length as selected by 14 Vector Autoregressive model was one. Vector Error Correction model showed that there was a 15 long run relationship between government spending on infrastructure and poverty reduction in 16 Nigeria. The regression result showed that government spending on building and construction 17 has a positive and significant effect on poverty reduction in Nigeria, while government 18 spending on transportation has a negative and significant effect on poverty reduction. The 19 effect of government spending on education and health were insignificantly negative and 20 positive respectively. It is recommended that the government of federal republic of Nigeria 21 should increase spending on building and construction as poverty reduction responds to it 22 brilliantly well. 23

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25 Index terms— infrastructure, government spending, poverty reduction, vector error correction.

### <sup>26</sup> 1 Introduction

ne of the major functions of a responsive government is to provide social/public goods like transportation, power 27 supply, telecommunication, health, education, defense and so on for its citizens. Most of these responsibilities are 28 carried out through spending/expenditures. Government expenditure is an important fiscal instrument recognized 29 as an agent of growth in every economy. Infrastructure is the physical structure needed for the operation of 30 a society. Infrastructure is synonymous to economic development: Roads, railways, and utility systems are 31 needed in every economy, and the lack of infrastructure services signal barriers to growth and underdevelopment 32 33 (Jones, 2006). Infrastructural development involves fundamental structures that are required for the functioning 34 of a community and society and it has made a net contribution of around one percentage point to Nigeria's 35 improved per capita growth performance recently likewise, Nigeria already spends \$5.9 billion per year on federal infrastructure, equivalent to about 5 percent of GDP. Existing spending patterns are heavily skewed toward 36 capital investment, with little provision for operations and maintenance and heavily dominated by power sector. 37 Mostly, Information on the infrastructure spending of sub-national governments was not available, and so could 38 not be assessed (Vivien & Nataliya, 2011). Poverty is one of the prominent issues in Nigeria owing to; rapid 39 population growth, lack of good governance because of corruption, poor infrastructure, lack of food production 40 capacity due to little or no concentration on agricultural sector, poor health facilities to mention a few. 41

#### **3 LITERATURE REVIEW**

Nigeria has a remarkable economic growth for the past decade but it has not reflected in combating the 42 problem of poverty which happens to be the number one of Millennium Development Goals (MDGs). Various 43 efforts have been made since 1972 to eradicate/reduce poverty in Nigeria such as: National Accelerated Food 44 Production Programme and the Nigerian Agricultural and Co-operative Bank of 1972, Operation Feed the Nation 45 (OFN) of 1976 targeted at teaching the rural farmers how to use modern farm implements, Green Revolution 46 Programme of 1979 aimed at reducing food importation and increasing food production, Directorate of Food, 47 Roads and Rural Infrastructure (DFRRI) of 1986, Family support programme as well as Family Economic 48 Advancement Programme of 1993 so also National Poverty Eradication Programme (NAPEP) of 2001. Despite 49 these programmes 63% of Nigerians still leave in poverty. Capital expenditure is on the increase yet poverty rate 50 is on the increase. In the 26 -page report released by National Bureau of Statistics, the detail of poverty and 51 income distribution across the country was given explicitly and out of the major findings and categorization from 52 the survey we have the following: 53

The measurement of Relative poverty which is defined by reference to the standard of living of majority in a given society for Nigeria was 54.4% in 2004, but increased to 69% in 2010. The North-West and North -East geo-political zones in Nigeria recorded the highest poverty rates of 77.7% and 76.3% respectively in 2010. Sokoto state has the highest poverty rate among Nigerian states of 86.4% while Niger state has the lowest of 43.6%. The absolute poverty rate (defined in terms of the minimal requirement necessary to afford minimal standards of food, clothing, healthcare and shelter) in Nigeria was 54.7% but increased to 60.9% in 2010.

Using the-Dollar -per-day shows that 51.6% of Nigerians were living below US\$1 per day in 2004, but this increased to 61.2% in 2010. Using subjective method, 75.5% of Nigerians considered themselves to be poor in 2004 and in 2010, the number went up to 93.9%. Using various economic models, for completeness and to guide policy, NBS estimates that poverty level may rise slightly from 2011. The survey suggests rising income inequality in Nigeria using Gini -coefficient.

Globally, Nigeria ranks low in the quality of its infrastructure which impacts the ease of doing business. Low investments in transportation have resulted in the current infrastructural deficit. Key challenges include inadequate investment and poor management of transport infrastructure -which have created a huge infrastructural deficit (Igwe, C.N., Oyelola, O.T., Ajiboshin I.O., Raheem S., 2013).

Most poor people of the world reside in rural areas, which are frequently characterized by low levels of public infrastructure, especially roads. Inadequate roads raise transport costs, limiting the use poor people can make of local markets for the sale of their produce, the purchase of consumer goods and opportunities for off-farm employment. Access to educational and health facilities, where they exist, is also constrained when it is difficult to reach them (Peter, 2005).

From the above, it has been widely researched that economic infrastructure is critical for economic growth 74 and poverty reduction, giving its pivotal role in improving competitiveness; facilitating both domestic and 75 international trade, and integration of continent to the global economy. Government spending is on the increase 76 as well as poverty in Nigeria. Hence, the need to establish, the association between them, as well as the possible 77 effects of governments spending on infrastructure through Building and construction, transport, education and 78 health on poverty in ??igeria. In order to establish this relationship, this paper is divided into five major parts; 79 the first section deals with introduction of the study, followed by literature review, methodology, analysis and 80 finally, discussion of findings. 81

#### 82 **2** II.

#### **3 3 Literature Review**

84 A lot of works have been done on government expenditure and economic growth in Nigeria, some of the recent ones are: ??bu Nworji and Oluwalaiye (2012); have examined the link between government expenditure on 85 infrastructure and economic growth in Nigeria. There are three views regarding investment in infrastructure 86 and poverty reduction: the first one argues that investment in social infrastructure, which includes investment in 87 education and health, is more relevant to the goal of poverty reduction rather than physical infrastructure (Jahan 88 & Mccleery, 2005). Ogun (2010) also submit that investment in social infrastructure has greater potential to 89 reduce poverty than investment in physical infrastructure in Nigeria. The second view holds that both physical 90 and social infrastructure can reduce poverty by linking poverty reduction to growth of an economy. While the 91 third view holds that investment in infrastructure has no effect on poverty reduction. Ali and pernia (2003) used 92 road, electricity and irrigation to measure physical infrastructure focusing on rural poverty and discovered that 93 94 road transport has a more significant effect on poverty reduction than electricity because the cost of acquisition 95 and maintenance of it comes from households. Therefore, the poor may not be able to afford it. However, 96 they observed that weak governance and institutions permit corruption, distorted public investment choices, and 97 neglected maintenance, which in turn lowering infrastructures contribution to economic growth and diverting benefits intended for the poor. Generally, there is now wider recognition that if governance and institutional 98 frameworks are strengthened, the linkage between infrastructure and reduction of poverty can become stronger. 99 The study of Kwon (2005) on infrastructure, growth and poverty reduction in Indonesia shows that 100 road investment improves the performance of provincial economic growth in poverty reduction. Government 101 investments that were considered were irrigation, roads, health, science and technology, agriculture and forestry, 102

and education. They include macroeconomic variables such as; regional production, agricultural employment, non-agricultural employment, agricultural production, and real wages. Peter (2005), in his study on road development and rural poverty in Lao shows that allweather road has a positive and highly significant effect on poverty. During the period under consideration, Lao experienced about 13% decline in poverty incidence as a result of road development.

## <sup>108</sup> 4 a) Empirical Review

Abu and Abdullahi (2010) used a disaggregated analysis of government expenditure having total capital 109 expenditure, total recurrent expenditure, government expenditure on education, government expenditure on 110 transport and communication and government expenditure on health as measure of expenditure. They found that 111 112 total capital expenditure, total recurrent expenditure and government expenditure on education have negative 113 effect on economic growth. In the same vein, Mauro (1998) in his examination of composition of government expenditure discovered that corruption lowers expenditure on education and perhaps on health. Igwe et.al 114 115 (2013) identified poor maintenance city planning as problems facing road infrastructure in Nigeria. In the work 116 of Amassoma et.al (2011), while using error correction modeling to determine the linkage between components of government spending and economic growth in Nigeria, they used components of government expenditure such 117 as; agriculture, education, health, transport and communication and found that expenditure on agriculture had 118 a significant effect on economic growth in Nigeria while expenditure on education, health and transport and 119 communication had insignificant influence on economic growth. They recommended that, there is need for an 120 increase in the budgetary allocation to the agricultural sector and also initiate incentives that can promote the 121 122 activities of rural farmers in promoting output growth of the sector. The monetary authorities should bridge 123 the widened gap existing between lending rate and deposit rate to enhance agricultural output in Nigeria. The continuous decline in budgetary allocation to the education and health sector should be reverse as this would 124 125 act as a catalyst to improve performance of the sectors and ultimately impact on the aggregate economy. There is the need for the government to redirect their excessive government revenue in the maintenance of government 126 official both in the house of senate and house to representative to these pivotal sectors of the economy. Such 127 redirection of fund would bring about improve performance of the sectors ??Amassoma et.al. 2011). 128

129 Akinlabi et al (2011) examined public infrastructure as an approach to poverty alleviation and economic growth in Nigeria. They adopted Vector Autoregressive (VAR) framework. They equally used real per capital expenditure 130 131 on economic service and real per capital income on social and economic services as proxy to infrastructure they 132 used level of fiscal deficit to proxy quality of governance with the assumption that in any economy where level of 133 infrastructure leads to poverty alleviation, the quality of governance must be a contributing factor. They found out that; public infrastructure granger causes poverty alleviation directly through economic growth, fiscal deficit 134 135 does not granger cause poverty alleviation and they concluded that, continuous increase in public infrastructure through increase in capital expenditure on economic, social and community service and qualitative governance 136 will alleviate poverty in Nigeria. The introduction of improved infrastructure on both roads and electrification 137 has contributed to agricultural growth in India and thereby, reduce poverty (Shenggen, et al 1998). 138

While the capacity to formulate sound public policies for urban development and housing is not lacking, 139 consistent failures of institutions and political structures, corruption and corrupt practices have hindered the 140 successful implementation and actualization of such policies in the country ?? Onakuse & Leniyan, 2007). Many 141 142 builders' cut-corners to get their building plans approved, thereby neglecting the safety codes as enshrined in the building plan. Although bribes are not taken by planning officials to grant unlawful development permits, 143 officials do tacitly overlook planning and building contraventions for pecuniary gains. The absence of standardized 144 training for artisans engaged in the construction industry is another fundamental cause of construction defects 145 which culminate in disaster risks. Eighty percent of artisans in the construction industry are not certified and 146 unskilled (Ede, 2011), (Aniekwu & Ozochi, 2010), ??Kayode et.al 2008) as cited in Adelekan (2013). 147

Adewara and Oloni (2012) explored the relationship between the composition of public expenditure and 148 economic growth in Nigeria between 1960 and 2008 using the Vector Autoregressive models (VAR). Their 149 findings shows that expenditure on education has failed to enhance economic growth due to the high rate of 150 rent seeking in the country as well as the growing rate of unemployment. They also found that expenditure on 151 health and agriculture contributed positively to growth. Fasoranti (2012), examined the effect of government 152 153 expenditure on infrastructure on the growth of Nigerian economy. She used government expenditures on 154 education, government expenditure on environment and housing, health services, transport and communication, 155 agriculture, security, inflation rate as explanatory variables and gross domestic product as explained variable. Some of the findings include; long run relationship between the growth of the economy and government 156 expenditures in education, environment and housing, health services, water resources, inflation rate, agriculture, 157 security, transport and communication. The paper observed that government expenditures on health services, 158 transport and communication imparted negatively on growth while expenditures in agriculture and security were 159 not significant in the growth of the economy. 160

#### <sup>161</sup> **5 III.**

#### <sup>162</sup> 6 Methodology

For this study, Per Capita Income (PCI) was used to proxy welfare which in turn means reduction in poverty, 163 Government Spending on Road Transport (GSRT), Government Spending on Building and Construction (GSBC), 164 Government Expenditure on Education (GEE) and Government Expenditure on Health (GEH) were used as proxy 165 for government secondary in nature from National Bureau of Statistics annual data and statistical bulletin of 166 central bank of Nigeria. The research design adopted for this study is time series and the scope of this study is 167 from 1970 to 2012 (43 years) both years inclusive. Ordinary Least Square (OLS) estimation method was used 168 with regression analytical method. Some diagnostic tests like unit root test, co-integration test and vector error 169 correction model were employed to ascertain stationarity, order of integration and possibility of long run effect 170 of expenditure on infrastructure on poverty reduction in Nigeria. These tests are necessary to ensure that the 171 172 regression results are not spurious. Using Keynesian definition of aggregate output, the functional relationship is as follows;?????? =  $\delta$  ??" $\delta$  ??" 173

The above expressions mean that we expect their coefficients to be greater than zero. That is, nonnegative. We 186 expect that an increase in expenditure on road transportation should increase the per capita income which should 187 alleviate poverty, an increase in expenses on road will make the road more motor able and increase the trade 188 within the country, thereby alleviate poverty. Likewise, an increase in expenditure on building and construction 189 should increase per capita income. Also, an increase in expenses on education will bring about an increase in 190 human capital formation which will reduce poverty in line with Maku (2009), when he regressed real GDP on 191 private investment, human capital investment, government investment and consumption spending. An increase 192 in expenditure on health will improve the health of the people by providing first aids, maternity homes, hospitals 193 etc. this will increase the productivity of the people and reduction of poverty. 194 IV. 195

#### <sup>196</sup> 7 Data Analysis

The unit root test showed that all the variables were not stationary at levels but were stationary at first difference 197 as shown below. This test is necessary for econometric model and to make proper inference, also economic theory 198 suggests that certain variables should be integrated (Bo, 2008). Trace test indicate 2 co-integration equations 199 at 0.05 levels of significance, while max-eigen indicates 1 co -integrating equation at 0.05 levels of significance. 200 These indicate that a long run equilibrium relationship exists between dependent variables (PCI) and independent 201 variables (GEE, GSRT, GSBC, GEH). 4.4 shows that government spending on building and construction has a 202 positive and significant effect on poverty reduction in Nigeria as expected, while government spending on road 203 transport has a negative and significant effect on poverty reduction in Nigeria contrary to the a priori expectation. 204 Government spending on education has a positive and insignificant effect on poverty reduction in Nigeria so also, 205 the relationship between government expenditure on health and poverty reduction is negative and insignificant. 206 The model is reliable in showing the relationship between government spending on infrastructure and poverty 207 reduction in Nigeria. The above table shows that the coefficient of ECM conforms to the a priori expectation in 208 that the coefficient is negative and lies between 0 and 1. This is also in line with the result of co integration test 209 that there exist a long run relationship between government spending on infrastructure as measured by; building 210 and construction, road transportation, education, health and poverty reduction in Nigeria but the relationship is 211 insignificant. 212

213 V.

# <sup>214</sup> 8 Discussion of Findings and Policy Implication

This study examined the long run relationship between government expenditure on infrastructure and poverty reduction in Nigeria. Time series data of 43 years were obtained from CBN statistical bulletin and Augmented Dickey Fuller unit root test showed that all the variables (dependent and independent) are not stationary at level but were stationary at first difference. This is the reason why the natural logarithm of the data was used so that the result will not be spurious. There exists a long run relationship between government spending on

infrastructure and poverty reduction in Nigeria this result is in line with the result of Akinlabi et al (2011), 220 Shenggen et al (1998) though, the variables used were different. The regression result showed that government 221 spending on building and construction has a positive and significant effect on PCI (poverty reduction) in Nigeria. 222 223 The result is expected because an increase in expenditure on building and construction will increase employment rate and per capita income will increase. The submission of Igwe et al (2013) equally applies to this paper 224 because an improvement on building and construction will alleviate poverty. Unlike the result of Peter (2005) 225 which he carried out in Lau, government spending on transport has a negative and significant impact on poverty 226 reduction in Nigeria. This can be due to corruption level which has rendered almost all the economic theories 227 inapplicable to the nation. The reasons given by Fasoranti (2012) out of which we have; poor management, poor 228 funding, misappropriation of fund, inadequate modern technology and so on may also apply to this situation. 229 Government expenditure on education has a positive but insignificant effect on poverty reduction in Nigeria 230 and government expenditure on health has negative and insignificant effect on poverty reduction in Nigeria. 231 Adewara and Oloni (2012) found that expenditure on education has failed to enhance growth so also, in this 232 study, poverty reduction has failed to respond to government expenditure on education. The result of GEE and 233 GEH also did not comply with a priori expectation. Generally, the model is statistically significant. That is, 234 government spending on infrastructure has a significant impact on poverty reduction in Nigeria and the model 235 236 is fit to explain poverty situation in the country. About 70% of the variation in per capita income (poverty 237 reduction) can be explained by variation in government expenditure on infrastructure in form of building and 238 construction, transport, education and health. Policies to increase spending on building and construction should be implemented as poverty reduction responds to it positively. Government spending on education should also be 239 increased, since it can alleviate poverty as human capital formation improves the economy. The transportation 240 sector of Nigeria needs monitoring and urgent attention because an increase in spending on transport should 241 alleviate poverty and not otherwise. Policies should then be put in place to ensure achievement of desired result.

& Abdullahi, (2010); Ogun T.P.
(2010); Oluwatobi & Ogunrinola, (2011); Edame, (2014);
Ogundipe & Oluwatobi (nd); Chude & Chude, (2013);
Taiwo & Agbatogun, (2011); Adewara & Oloni, (2012);
Akpokerere & Ighoroje (2013); Robinson, Eravwoke &
Ukavwe, (2014); Oyinlola & Akinnibosun, (2013);
Amassoma, Nwosa & Ajisafe (2011); Aruwa, (2010);
Usman, Mobolaji, Kilishi, Yaru & Yakubu (2011); Habib &
Stephen (1999) and a host of others. While a few out of
which we have: Akinlabi, Jegede & Kehinde (2011);

Figure 1:

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<sup>&</sup>lt;sup>1</sup>Disaggregated Government Spending on Infrastructure and Poverty Reduction in Nigeria

 $\mathbf{4}$ 

Variabl	ADF Critic		Probabil	Level of	Remar
es		al	ity	Significan	k
		Value		ce	
		(1%)			
GEE	6.438	-	1.0000	0.05	Non-
	3	3.615			stationa
		5			ry
GSRT	0.232	-	1.0000	0.05	Non-
	6	3.596			stationa
		6			ry
GSBC	2.958	-	1.0000	0.05	Non-
	2	3.596			stationa
-		6			ry
PCI	1.153	-	0.9334	0.05	Non-
	7	2.621			stationa
ODI	2 2 2 2	1		~ ~ <del>-</del>	ry
GEH	3.822	-	0.9999	0.05	Non-
	7	2.634			stationa
		7	ı. m		ry
Variabl	Table 4.2 : Unit roc ADF Critic	ot test at first o	Inference Probabil	Level of	Remar
	ADF Unitic	al			Remar k
es			ity	significan	K
GEE		Value	0.0000	ce 0.05	Stationa
GEE	- 4.854	- 3.601	0.0000	0.05	
	4.604 7	0.001			ry
GSRT	1	0	0.0003	0.05	Stationa
USIT	7.437	3.601	0.0005	0.05	ry
	6	0			1 y
GSBC	-	-	0.0000	0.05	Stationa
GDDC	6.324	2.622	0.0000	0.00	ry
	7	6			- J
PCI	-	-	0.0000	0.05	Stationa
	7.209	6.864			ry
					- J

Figure 2: Table 4 .

#### $\mathbf{4}$

Variables Coefficient Std.			t-	Probability			
		Error	statistic				
$\mathbf{C}$	53440.08	1867.34	28.6184	0.0000			
LNGSBC	2.8599	0.8090	3.5352	0.0011			
LNGSRT	-1.6249	0.4152	-3.9137	0.0004			
LNGEE	0.0938	0.0809	1.1597	0.2534			
LNGEH	-0.0997	0.1230	-0.8112	0.4223			
R 2 = 0.70, DW = 0.51, F-Statistic = 22.2917 $(0.00000)$							
	Table						

Figure 3: Table 4 .

#### $\mathbf{4}$

5 : Results of Vector Error Correction model of poverty reduction in Nigeria D(PCI) Dependent variable	
Constant	2083.9
	(638.003)
	[3.266]
LN(GSBC)(-1)	-1.7249
	(0.8275)
	[-2.0846]
LN(GSRT(-1))	0.6205
	(0.4871)
	[1.2741]
LN(GEE(-1))	-0.0550
	(0.0433)
	[-1.2700]
LN(GEH(-1))	-0.0789
	(0.0731)
	[-1.0802]
ECM(-1)	-0.5173
	(0.0606)
	[-2.3655]
() denotes standard ormen	

( ) denotes standard error

[] denotes t statistics

Figure 4: Table 4 .

- [Nigeria], Nigeria. International Journal of Business and Management Review (1) p. . 244
- [Igwe et al. ()] 'A Review: Nigeria's Transportation System and the Place of Entrepreneurs'. C N Igwe, O T 245 Oyelola, I O Ajiboshin, S Raheem. Journal of Sustainable Development Studies 2013. (3) p. . 246
- [Amassoma et al. ()] 'Components of Government Spending and Economic Growth in Nigeria: An Error 247 Correction Modelling'. D Amassoma, P Nwosa, R Ajisafe. Journal of Economics and Sustainable 248 249 Development 2011. (2) p. . (IISTE)
- [Adewara and Oloni ()] 'Composition of Public Expenditure and Economic Growth in Nigeria'. S Adewara, E 250 Oloni . Journal of Emerging Trends in Economics and Management Sciences 2012. 3 (4) p. . (JETEMS)) 251
- [Mauro ()] 'Corruption and the Composition of Government Expenditure'. P Mauro . Journal of Public 252 Economics 1998. 69 p. . 253
- [Habib and Stephen ()] 'Crowding-Out and Crowding-In Effects of the Components of 17. Government Expendi-254 ture'. A Habib, M Stephen. http://digitalcommons.uconn.edu/econ wpapers/199902 Economics 255 Working Papers. Paper 1999. 199902. 256
- [Kayode et al. ()] 'Design, aesthetics and the issue of integrity in the built environment: The Nigerian example'. 257 F Kayode, B Ojo, E A Sheba. Indoor Built Environment 2008. 17 p. . 258
- [Maku ()] Does Government Spending Spur Economic Growth in Nigeria, O E Maku . 2009. Munich: MPRA. 259
- [Abu and Abdullahi ()] 'Government Expenditure and Economic Growth in Nigeria, 1970-2008: A Disaggregated 260 Analysis'. Nurudeen Abu, Usman Abdullahi. BEJ 4. Business and Economic Journal 2010. 2010. 261
- [Taiwo and Agbatogun ()] 'Government Expenditure in Nigeria: A Sine qua Non for Economic Growth and 262 263 Development'. A Taiwo, K Agbatogun. Journal of Research in National Development (JORIND 2011. (9) 264
- [Oluwatobi and Ogunrinola ()] 'Government Expenditure on Human Capital Development: Implications for 265 Economic Growth in Nigeria'. S Oluwatobi, I Ogunrinola. Journal of sustainable Development 2011. (4) 266 267 р. .
- [Robinson et al. ()] 'Government Expenditures and Economic Growth: The Nigerian Experience'. M Robinson, 268 K Eravwoke, A Ukavwe. Mediterranean Journal of Social Sciences MCSER Publishing 2014. (5) p. . 269
- [Ogundipe and Oluwatobi] Government Spending and Economic Growth in Nigeria: Evidence from Disaggregated 270 Analysis, A A Ogundipe, S Oluwatobi. 271
- [Nworji and Oluwalaiye ()] 'Government Spending on Road Infrastructure and Its Impact on the Growth of 272 Nigerian Economy'. I Nworji, O Oluwalaiye. International Journal of Management and Business Studies 273 2012. (2) p. . 274
- [Shenggen et al. ()] 'Government Spending, Growth and Poverty: An Analysis of Interlinkages in Rural India'. 275 F Shenggen, H Peter, T Sukhadeo. EPTD Discussion Papers 1998. 33 p. . 276
- [Chude and Chude ()] Impact of Government Expenditure on Economic Growth in, N Chude , D Chude . 2013. 277
- [Ali and Pernia ()] 'Infrastructure and Poverty Reduction, What is The Connection? ERD Policy Brief Series'. 278 279 I Ali, E Pernia. Economics and Research Department 2003. Asian Development Bank. 13.
- [Ogun ()] 'Infrastructure and poverty reduction: Implications for urban development in Nigeria, Working paper 280 // World Institute for Development Economics'. T P Ogun . Research 2010. 2010. 43. 281
- [Jones ()] Infrastructure to support inclusive Growth and Poverty Reduction, Infrastructure for supporting 282 Inclusive Growth and Poverty Reduction in Asia, Jones . 2006. ADB. p. . 283
- [Kwon ()] 'Infrastructure, Growth and Poverty Reduction in Indonesia: A cross-Sectional Analysis'. Eunkyung 284 Kwon . Asian Development Bank 2005. p. . 285
- [Jahan and Mccleery ()] 'Making infrastructure work for the poor'. S Jahan , R Mccleery . www.undp.org/ 286 poverty/docs/fpage/Synthesisreport.pdf NNDP. Available at 2005. 287
- [Ede ()] 'Measures to Reduce the High Incidence of Structural Failures in Nigeria'. A Ede . Journal of 14. 288 Sustainable Development in Africa 2011. (13) p. . 289
- [Vivien and Nataliya ()] Nigeria's, F Vivien , P Nataliya . 2011. 290
- [Okonjo-Iweala and Osafo-Kwaako ()] Nigeria's Economic Reforms: Progress and Challenges, Working Paper 291 #6, Global Economy and Development Program The Brookings Institution, N Okonjo-Iweala, P Osafo-292 Kwaako . 2007. 293
- [Onakuse and Lenihan ()] 'Policies, Programmes and Sustainable Development in Nigeria: A critique'. S Onakuse 294 , E Lenihan . Africana 2007. (1) p. . 295
- [Adelekan ()] 'Private Sector Investment Decision in Building and Construction: Increasing, Managing and 296 Transferring Risks: Case Study of Lagos Nigeria. The United Nations Office for Disaster Risk Reduction'. I 297 Adelekan . Global Assessment Report on Disaster Risk Reduction 2013. p. .
- 298

#### 8 DISCUSSION OF FINDINGS AND POLICY IMPLICATION

- 299 [Usman et al. ()] 'Public Expenditure and economic growth in Nigeria'. A Usman , H I Mobolaji , A A Kilishi ,
- 300 M A Yaru , T A Yakubu . Asian Economic and Financial Review 2011. 1 (3) p. .
- [Oyinlola and Akinnibosun ()] 'Public Expenditure and economic growth nexus: Further Evidence from Nigeria'.
   M Oyinlola, O Akinnibosun . Journal of Economic and International Finance 2013. (5) p. .
- [Akinlabi et al. ()] 'Public Infrastructures: An Approach to Poverty Alleviation and Economic Development in
   Nigeria'. B Akinlabi , C Jegede , J Kehinde . ) Special Issues, 2011. p. .
- 305 [Aniekwu and Ozochi ()] 'Restructuring Education, Training and Human-resource Development in the Nigerian
- Construction Industry'. N Aniekwu, C Ozochi. Journal of Science and Technology Education Research 2010.
   (1) p. .
- 308 [Peter ()] 'Road Development and Poverty Reduction, A case of Lao PDR'. W Peter . ADB Institute Discussion
   309 Paper No 2005. 25 p. .
- 310 [Sjo ()] Testing for Unit Roots and Cointegration, Bo Sjo . 2008. p. .
- 311 [Akpokere and Ighoroje ()] 'The effect of Government Expenditure on Economic Growth in Nigeria: A Disag-
- gregated Analysis from 1977 to'. O Akpokere, E Ighoroje. International Journal of Economic Development
   Research and Investment 2013. 2009. (4) p. .
- [Fasoranti ()] 'The Effect of Government Expenditure on Infrastructure on the Growth of the Nigerian Economy'.
   M Fasoranti . International Journal of Economics and Financial Issues 2012. 1977-2009. 2012. (2) p. .
- 316 [Aruwa ()] The Quality of Government Expenditures in Nigeria, S Aruwa . 2010. (Seminar Paper III, 317 Academia.edu)
- 318 [Edame ()] 'Trends Analysis of Government Expenditure on infrastructure and Economic Growth in Nigeria'. G
- Edame . http://www.aessweb.com/journals/5007 International Journal of Asian Social Science 2014. (4) p. .