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Industrial Sector Performance and Poverty Reduction in Nigeria: 1981-2018

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Abstract: The study empirically examined industrial sector performance and poverty reduction in Nigeria and time series data were sourced from different sources spanning from 1981-2018. Econometric techniques, stationary unit test (ADF), Johansen Co-integration test, and techniques of Granger causality test, Ordinary Least Square (OLS) and multiple regressions were employed in the study. The regression estimated result revealed that aggregate industrial output (INDQ) had positive impact on poverty reduction in Nigeria so also aggregate industrial employment (INDEM). The coefficients of the estimated results were; POVR = 49.14225+ 2.00E-06 INDO + 1.58E-06INDEM and the R2 = 63.34%. From the result of the Granger causality test, the study revealed that aggregate industrial output (INDQ) granger caused poverty rate (POVR), poverty rate (POVR) granger caused aggregate industrial employment (INDEM), and aggregate industrial output (INDQ) granger caused aggregate industrial employment (INDEM) all depicting a unidirectional causality. The study recommends that the government of Nigeria should put in place the needed mechanism to ensure that budget allocation to industrial sector is increased for adequate industrialization for a purposeful increase in Gross Domestic Product (GDP) via increase in industrial output. Government poverty reduction strategies should be strengthened and financed adequately with proper coordination to ensure that funds are not misappropriated or diverted by government officials. The government should be proactive in terms of industrial policy consistency and continuity to make sure that uncompleted industrial projects are funded and monitored for proper industrialization. Technological development in the Nigerian industrial sector should be taken with utmost seriousness by the government, in partnership with the private sector, to address squarely the challenges of obsolete technologies which are counterproductive.

Keywords: Industrial Performance, Poverty Reduction, Industrial Output, Industrial Policy, Manufacturing.

1. Introduction

The structure of the Nigerian economy at independence in 1960 was that of providing agricultural raw materials needs of the advanced economies, particularly of Britain. The bulk of national income was from exports of primary agricultural products. The level of industrial activities in the country was very low and, mostly commercial activities owned and run by multinationals. These companies engaged in trade and commerce especially in the importation and distribution of manufactured goods. Laying a solid foundation for the development of an industrial economy for Nigeria was not part of the colonial economic policy, (Egwaikhide, 2001 and Banjoko, 2012).

Industrialization which is a deliberate and sustained application and combination of an appropriate technology, infrastructure managerial expertise and other important resources has attracted considerable interest in research (Okafo, 2005).

Industrialization involves activities in craft, mining, processing, and manufacturing, greater emphasis is given to manufacturing, construction and mining.

It seems that the level of abject poverty in Nigeria is due to lack of proper attention or failure to industrialise the country, which informed this study.

Staggering poverty in the midst of plenty is one of the world's unsolved issues especially in the developing countries. Poverty has multi-dimensional nature and can be evident in different forms such as deficiency of material income adequate to guarantee good standard of living; unemployment, dependency on imports, inflation, hunger and under-nutrition; illness; limited education and fundamental services; persistent rise in mortality and morbidity due to sickness; homelessness and insufficient housing; insecure environments and social exclusion and discrimination (Ogbeide, NwamakaandAgu, 2015). Poverty kills about 25000 children each day especially in some of the poorest countries on earth. About 2.8 billion of the world population lives on less than \$2 daily and about 1.4 billion live on \$1.9 per day (World Bank, 2016).

2. STATEMENT OF THE PROBLEM

Nigeo.ria has laid so much emphasis on industrialization since independence in 1960, yet the country is not industrialized as at 2020, and may not be industrialize as at 2040. A lot of efforts have been put into the industrialization process. Plan after plan, investment policies have been renewed, fine-tuned and at times completely revamped. Resources are abundant and investment opportunities are almost unlimited yet poverty rates have been on the increase in Nigeria. Various industrial development policies, perspective plans and medium—term economic plans, the 4thdevelopment Plan acknowledged that manufacturing is capable of sustaining a minimum growth rate of 15% per annum, contributing over 7% to gross domestic product there by reducing poverty, yet by 2019 Nigeria has the highest number of people living below the poverty line.

The history of industrial development in Nigeria is a classic illustration of how a nation could neglect a vital sector through policy inconsistencies and distractions attributable to the discovery of oil (Adeola, 2005; Ewubare and Okpanni, 2018). President Buhari in 2018 decried the pathetic state of the industrial sector, stating that Nigeria has become a marketer of other countries' merchandise; there is need for us to produce what we eat and use what we produce.

The more recent experiences of the East and Southeast Asian economic transformations demonstrate that diversification into manufacturing and industrial production are critical to poverty reduction. This is the gap that is yet to be filled in Nigeria. It is in the light of the foregoing that this study seeks to evaluate the industrial sector performance and its impact on poverty reduction in Nigeria. The study therefore seeks to answer the following research questions:

3. RESEARCH QUESTIONS

- 1. To what extent have the industrial output impacted on poverty reduction in Nigeria?
- 2. What is the causal relationship between aggregate industrial output, aggregate industrial employment and poverty rate in Nigeria?
- 3. What is the nature of the trends of aggregate industrial output, aggregate industrial employment and poverty rate in Nigeria?
- 4. What are the challenges that impede industrial sector performance in Nigeria?

4. OBJECTIVES OF THE STUDY

- 1. To determine the extent to which industrial output have impacted on poverty reduction in Nigeria.
- 2. To find out the causal relationships between aggregate industrial output, aggregate industrial employment and poverty rate in Nigeria?
- 3. To establish the nature of the trends of aggregate industrial output, aggregate industrial employment and poverty rate in Nigeria?
- 4. To examine the challenges that impede on industrial sector performance in Nigeria.

5. LITERATURE REVIEW

Industrialization is the process of building up a country's capacity to produce varieties of goods and services— extraction of raw materials and manufacturing of semi-finished and finished goods. Anyanwu, Oyefusi, ,Oaikhenan and Dimowo (1997), describes industrialization as the process of building up a nation's capacity to convert raw materials and other inputs to finished products and to manufacture goods for further production or for final consumption. Industrialization enhances the

utilization of productive inputs (labour, capital and raw materials), given the country's technology, to produce non-durable and durable consumer goods, intermediate goods and capital goods for domestic consumption, export or further production. Thus industrialization could be described as the process of transforming raw materials, with the aid of human resources and capital goods into

(a) Consumer goods, (b) New capital goods which allows more consumers goods (including food) to be produced with the same human resources, and (c) Social overhead capital, which together with human resources provide new services to both individuals and businesses (Ekpo, 2005).

Kirkpatrick (1985), posited that industrialization involves a number of changes in economic structure of a country such as a rise in the relative importance of manufacturing industry; a change in the composition of industrial output; and changes in production techniques and sources of supply for individual commodities. Industrialization is, indeed, a wide concept. Broadly conceived, it relates to development in many industries/sectors such as manufacturing, banking, building/construction, mining/quarrying, communication, real estate (Obioma and Ozughalu, 2005) and public utilities (Ekpo, 2005). CBN (2002), gives the components of industrial sector in Nigeria to include the manufacturing, construction, electricity, mining, water and gas industries. On the other hand, industrial policy, broadly defined is all forms of state intervention that affect and influence industrial activities (Foreman-Peck & Federico, 1999; Busari, 2005).

The United Nations fundamentally see poverty as a denial of choices and opportunities, a violation of human dignity. It means lack of basic capacity to participate effectively in society. It means not having enough to feed and clothe a family, not having a school or clinic to go, not having the land in which to grow ones food or job to earn one's living, not having access to credit. It means insecurity, powerlessness and exclusion of individuals, households and communities. It means susceptibility to violence, and it often implies living in marginal or fragile environments, without access to clean water or sanitation. The provision of these basic necessities implies poverty reduction, which in the context of this study, seems to have correlation with industrial performance.

According to the World Bank, (1996), poverty is pronounced deprivation in well-being, and comprises many dimensions. It includes low incomes and the inability to acquire the basic goods and services necessary for survival with dignity. Furthermore, the World Bank see poverty encompassing low levels of health and education, poor access to clean water and sanitation, inadequate physical security, lack of voice and insufficient capacity and opportunity to better our lives. Poverty connotes many things i.e. lack of material well-being, insecurity, low self-confidence, psychological distress, unpredictability, lack of freedom of choice and action and inability to believe in one self (Narayan, 2000).

Poverty reduction in the context of this study refers to the enhancement of opportunity for people living in absolute poverty through the index of industrial production, industrial output, industrial employment, industrial income and consumption of industrial goods and services. Industrialization implies moving out of less productive sector (primitive agriculture) where poverty rates are often much higher, to more productive sector (manufacturing) may also relieve some of the pressures put on agricultural land and have some direct poverty reducing effect through raising agricultural incomes. Such changes in the structure of employment and income can have very large effects on poverty, as it may enable people to escape poverty traps.

Several empirical studies have supported the assertion of the existence of a relation between industrialization and economic growth hence poverty reduction in several economies of the world. For instance, Ebong, Udoh and Obafemi (2014), using time series for five decades (1960-2010) based on the Eagle-Granger two steps and Johansen co-integration test, and the vector auto regression technique studied globalization and industrial development in Nigeria. Findings clearly showed that globalization had significant impact on industrial development. They suggested that increasing the level of trade with the rest of the world would create opportunities to export local raw materials and import necessary input into the industrial process and that financial liberalization enhances industrial development. Hence, they recommended that policies are required to reserve the tide of capital flight from the country and channel resources toward the industrial sector.

Likewise, Ogunrinola and Osabuohien (2010) examined the impact of globalization on employment generation in Nigeria's manufacturing sector using ordinary least square technique of analysis on a time series data for the period of 1990-2006 and discovered that globalization has a positive impact on

employment level in the Nigerian manufacturing sector. On another study that relates to the developing economics conducted by Kaya (2010) which investigated the effect of the latest wave of economic globalization on manufacturing and employment in developing countries with the use of a comprehensive dataset on 64 developing countries from 1980-2003. The study is concerned with classic debate on the benefits of industrialization and how this affects developing countries. The results generally demonstrate that manufacturing employment increased in most developing countries. First, this study finds that the level of economic development measured by GDP per capita is the most important factor influencing the size of manufacturing employment. Second, economic globalization also influences manufacturing employment in developing countries but mainly through trade.

From another line of thinking, Ndiyo and Obongi(2003) with the use of the vector autoregressive technique of analysis examined the challenges of openness in developing countries for lessons to be drawn using Nigeria from (1970-2000). Empirical result from this study shows that globalization has had both positive and negative effect on the Nigerian economy. The negative effect according to Mike (2012) includes the challenges for industrial policies in Nigeria which are powerful tools to promote rapid economic growth and development. He observed that Nigeria has not been able to make appreciable progress in industrial development due mainly to policy failure. He stated that different governments since independence have been trying out different approaches based on the dictates of those in power and those who advise them, stressing that the result has been policy summersault and inconsistency favouring rent seeking.

Also Gylych and Enwerem (2016) in their study, the impact of industrialization on economic growth: experience of ten countries in ECOWAS between the periods of (2000-2013), revealed that industrialization has had a negative impact on economic growth in Nigeria in the long run. The methodology adopted was the Ordinary least square (OLS) technique. The study recommended that government should redirect its industrial and investment policy so as to increase output of real gross domestic production (RGDP), flexible exchange rate and control inflation rate since their findings showed increase in exchange and inflation rate, decreased output. Also industrial and investment policy should be flexible on infant industries so as to encourage productivity and improve GDP.

A study by Isiksal and Chimezie (2016) indicated that no country particularly the developing ones has attained a level of economic growth without sub-sector linkage. They evaluated the Impact of Industrialization on Nigeria from 1997-2012 using the Johansen co-integration testing approach which demonstrated a significant long-run relationship between the three variables used. The results reveal that agriculture, industry and services have a significant positive relationship with GDP.

Rodrik (2006) emphasizes that episodes of growth acceleration are often associated with an increasing role of manufacturing in the economy. Szirmaia and Verspagen (2015) analysed the importance of manufacturing as a driver of economic growth using data for 88 countries (21 advanced economies and 67 developing countries) over the period 1950–2005. They report that manufacturing has a positive impact on economic growth.

6. THEORETICAL FRAMEWORK

6.1. Keynesian Theory And Poverty

Keynesians suggest that growth can promote economic development and thus relieve poverty, hence further justifying government intervention at the macroeconomic level (via fiscal and monetary policy), mainly to tackle involuntary unemployment. The intervention of government also include the provision of capital and public goods, otherwise referred to as socioeconomic expenditure of government (Sachs, 2005). The main signs of underdevelopment in a country or region include: poor levels of human capital (health, skills and education), business capital (machinery and buildings), infrastructure (transport, power and sanitation), natural capital (viable land), public institutional capital (rule of law and security) and knowledge capital (technical know-how needed to raise productivity). For example, this view involves a focus on the provision of capital goods, in the form of education (to increase human capital) and infrastructure (to increase productive capacity), flowing to the poor, as well as overall development of markets that may be applicable. Sachs' approach is innovative in being "clinical" in designing anti-poverty intervention and needing to adapt to circumstances rather than "one size fits all". Economies, like persons, should be seen as complex systems, where failures in one part (e.g. corruption) lead to failure elsewhere (e.g. market systems), and "diseases" differ (Davis, 2007). Factors to be taken into account include the existence of a

poverty trap, the economic policy framework, the fiscal framework and fiscal traps, physical geography, governance patterns and failures, cultural barriers and geopolitics. In this regard, poverty in a given country might be heavily affected by the presence of a very weak institutional environment including corruption, for example, which adversely influences the functioning of markets, whereas in another context the most crucial factor may be geographical isolation, which may impede the import of basic goods and services needed for individuals to attain a certain level of well-being. Hence, under this view, the importance of these wide ranges of factors at the macro level needs to be weighed in each specific case, and only then can a particular, tailor-made policy agenda be designed to combat poverty. Critics (as summarised in Davis, 2007) argue that the Sachs approach resembles the "big push" to get the poor out of a poverty trap by massive aid that was fashionable in the 1950s but shows little evidence of having worked. Perhaps the approach should be more "bottom up" from the poor rather than "top down" to them. Black markets might arise in the capital-good commodities he proposes to distribute. Much more rigorous ways of preventing abuse of aid by governments may need to be devised as argued by (Lal, 1995)).

6.2. Endogenous Growth Theory

Endogenous growth theory is a theory which explains the long-run growth rate of the economy on the bases of endogenous factors against the exogenous factors of the neoclassical growth theory. The endogenous growth models have been developed by Arrow, Romer and Lucas, among other economists. The theory holds that economic growth is primarily the result of endogenous and not the external forces. Endogenous theory holds that investment in human capital; innovation and knowledge are significant contributors of economic growth. The theory also focuses on positive externalities and spill over effects of knowledge based which will lead to economic development.

The theory believes that improvements in productivity can be link to faster space of innovation and extra investment in human capital. The endogenous growth theory also holds that policy measures can have an impact on the long-run growth rate of the economy (Rebelo, 1999). The model is one in which the long-run growth rate is determined by variables within the model, not an exogenous rate of technological progress as in neoclassical growth model. Romer (1994) asserts that: Model of endogenous technical change of 1990 identifies a research sector specializing in the production of ideas. This sector invokes human capital along with the existing stock of knowledge to produce a new knowledge. To him, ideas are more important than natural resources endowment. He cited the example of Japan which has few natural resources but was open to new western ideas and technology. It imported machines from the United States, dismantled them to see how they worked and manufactured their better prototypes.

There is central knowledge in this theory as a major determinant of economic growth. Endogenous growth theory predicts positive externalities and spill over effect from a development of high value-added knowledge economy which is able to develop and maintain a competitive advantage in growth of industries in the global economy.

7. METHODOLOGY

The research methodology combines both empirical and theoretical analysis of data. Ordinary Least Square (OLS) technique is adopted for data analysis. The choice of this technique is informed by the time series characteristics of data proxied for industrial performance and poverty reduction. This study generates secondary data on Poverty Rate (POVR), Manufacturing output (MANQ), Mining output (MINQ), Construction output (CONQ) and Employment Rate (EMPR). The data collected covered the period of 37 years (1981-2018). The data used were logged in order to have the common basis among the variables and to provide reliable economic interpretation of the results.

The unit root test was conducted in order to have stationarity of the data and to avoid misleading result. The result of the unit root test justified the adoption of multiple regression method. The Ordinary Least Square multiple regression model is estimated with the aid of econometric software (e-views version 10) to determine the relationship between industrial sector performance and poverty reduction in Nigeria. The Granger causality test is conducted to identify the causal relationship between poverty reduction and industrial output in Nigeria and also the causal relationship between industrial performance and employment rate in Nigeria.

7.1. Model Specification

The econometric methodology procedure included the specification of both the mathematical and econometric models, (Gujarati, 2004). The mathematical function of the model is specified as:

$$POVR = f(INDQ, INDEM,)$$
 - - - - - (1)

Where:

POVR = Aggregate Poverty Rate (Proxy for poverty reduction)

INDQ = Aggregate Industrial Output

INDEM = Aggregate Industrial Employment

Industrial sector performance is proxy by INDQ and INDEM.

Aggregate Poverty Rate (POVR) is the dependent variable while the control variables are; Aggregate Industrial Output (INDQ) which comprised of manufacturing output, mining output, construction output) and Aggregate Industrial Employment (INDEM). The mathematical function of the model is transformed into econometric functions as:

POVR =
$$\beta_0 - \beta_1 INDQ - \beta_2 INDEM + \mu - - - - - (2)$$

The negative sign is apriori expectation of INDQ and INDEM on poverty reduction.

$$LogPOVR = \beta_0 - \beta_1 LogINDQ - \beta_2 LogINDEM + \mu \qquad - \qquad - \qquad - \qquad - \qquad (3)$$

Meanwhile, natural logarithm is introduced in the equation to bring the variables to common base since they are not in the same unit. Where: β_0 = the constant, β_1 , and β_2 are the coefficients of the explanatory variables and μ = disturbance term. Theoretically, the coefficients are expected to take these signs: β_0 > 0, β_1 < 0, β_2 < 0. Note that: β_0 = the constant, β_1 = coefficient of aggregate industrial output (INDQ), β_2 = coefficient of aggregate industrial employment and μ = disturbance term.

7.2. Estimation Results

The data for all the estimation are presented in the appendix.

7.3. Unit Root Test

The unit root test is usually used to examine the properties of the variables of any given model. It is used to check for the presence of unit root that is, non-stationarity of the variables. This test is carried out using Augment Dickey-Fuller (ADF) test. The Unit root test is also known as co-integration test. The results from the test are tabulated below.

Table1. Result of Stationary Test

Variables	ADF Test Statistic	Mackinnon Value	Order of	Remark
	Value	(5%)	Integration	
LogPOVR	- 3.614893	- 2.945842	1(1)	Stationary
LogINDQ	- 6.728306	-2.945842	1(1)	Stationary
LogINDEM	- 5.960073	-2.945842	1(1)	Stationary

Source: Computed with e-views 10 by the researcher (2020)

From the result all the variables; Aggregate Poverty Rate (POVR), Aggregate Industrial Output (INDQ) and Aggregate Industrial Employment (INDEM) met the *apriori* expectation at first difference. In other words they are integrated of order one. The need to conduct co-integration test to check whether the control variables have long-run relationship with the dependent variable becomes necessary.

7.4. Johansen Co integration Test

The co-integration test is used to check for long-run relationship between the dependent and independent variables (OgundipeandAworinfe, 2013). The co-integration test was carried out using the Johansen technique also using E-views software package and it produced the result shown in the table 3.

Table2. Johansen Co-integration Test Using Trace Statistic and Max-Eigen Value

Eigen-Value	Hypothesized No. of CE(S)	Trace Statistic	Max-Eigen Statistic	Hypothesized No. of CE(S)
0.340314	None*	20.96912	14.97578	None *
0.124275	At most 1*	5.993344	4.777327	At most 1*
0.033214	At most 2	1.216017	1.216017	At most 2

Source: *Computed with e-views 10 by the researcher* (2020)

From the model POVR = f (INNQ, INDEM), the co-integration test result in table 3 shows that there is a long run relationship between the variables in the study: Aggregate Poverty Rate (POVR), Aggregate Industrial Output (INDQ) and Aggregate Industrial Employment (INDEM). The Trace test shows that there are two (2) co-integration equations and the maximum eigen value test also shows evidence of two co-integration equations. Both tests are carried out at 0.05 per cent level.

7.5. Granger Causality Test

According to Engle and Granger (1987), causality test is used to test the causal relationship between variables in order to ascertain which of the variables affect the other and also to know the direction of the causality (unidirectional or bidirectional or no causal relationship). The use of Granger causality test for this study is justified for the investigation of the causal relationships between industrial performance (proxy by industrial output and industrial employment) and poverty reduction (proxy by the aggregate poverty rate) in Nigeria. The result of the Pairwise Granger causality test is shown in table 5.

Table 3:Pairwise Granger Causality Tests			
Date: 04/22/20 Time: 08:14			
Sample: 1 38			
Lags: 2			
Null Hypothesis:	Obs	F-Statistic	Prob.
INDEM does not Granger Cause POVR	36	0.04461	0.9564
POVR does not Granger Cause INDEM		5.87133	0.0069
INDQ does not Granger Cause POVR	36	0.51436	0.6029
POVR does not Granger Cause INDQ		1.04535	0.3636
INDQ does not Granger Cause INDEM	36	5.78028	0.0074
INDEM does not Granger Cause INDQ		0.92065	0.4089

	Obs	F-Statistic	Prob.	Causality
Null Hypothesis:				
Log INDQ does not Granger Cause Log POVR	36	0.51436	0.0209	Unidirectional
Log POVR does not Granger Cause Log INDQ	36	1.04535	0.3636	
Log INDEM does not Granger Cause Log POVR		.87133	0.0069	Unidirectional
Log POVR does not Granger Cause Log INDEM	36	0.9564		
Log INDEM does not Granger Cause Log INDQ	36	0.92065	0.4089	Unidirectional
Log INDQ does not Granger Cause Log INDEM5	36	0.0074		

Source: Computed with e-views 10 by the researchers (2020)

Table4. Ordinary Least Square (OLS) Result.

Dependent Variable: POVR					
Method: Least Squares	Method: Least Squares				
Date: 04/22/20 Time: 07:45					
Sample: 1 38(1981-2018)					
Included observations: 38					
Variable	Coefficient	Std. Error	t-Statistic	Prob.	
С	49.14225	2.394756	20.52078	0.0000	
INDEM	1.58E-06	1.09E-06	1.449963	0.1560	
INDQ	2.00E-06	6.70E-07	2.980925	0.0052	
R-squared 0.633395 Mean dependent var				61.38158	
Adjusted R-squared	0.612446	S.D. dependent var 17		17.79161	
S.E. of regression 11.07596 Akaike info criterion 7.723087				7.723087	
Sum squared resid	4293.690	Schwarz criterion	1	7.852370	

Log likelihood	-143.7387	Hannan-Quinn criter.	7.769085
F-statistic	30.23532	Durbin-Watson stat	0.179688
Prob(F-statistic)	0.000000		

Source: *Computed with e-views 10 by the researchers* (2020)

From the estimated result of the model APOV = f (INDQ, INDEM) as shown in table 6 above, the coefficient of the constant parameter is positive (49.14225) and is correctly signed. This is in consonance with the *apriori* expectation of a positive sign. This indicates that if all the explanatory variables are held constant, POVR will be 49.14225 and it signifies that the intercept of POVR is positive and by implication the percentage of the poor in Nigeria will be 49.1 per cent. The coefficient of INDQ is negative (-2.00E-06) and it is correctly signed and is statistically significant (t-stat2.980925 > t-tab 2.015). This implies that one unit increase in INDQ will lead to 2.00 per cent decrease in POVR in Nigeria. The co-efficient of INDEM is negative (-1.58E-06) and is correctly signed. It is statistically significant because (t-stat 1.449963> t-tab 2.015). This means that one unit increase in INDEM will lead to a 1.58 decrease in POVR within the study period.

The coefficient of determination R-Squared ($R^2 = 0.633395$) which shows that about 63. 34% of the variation in POVR is caused by industrial performance, proxy by changes in the explanatory or control variables (INDQ and INDEM). It means that 36.66% of the variation in the model unaccounted for is attributed to the error term and this shows that the line of fit is highly fitted. The Durbin-Watson statistic 0.179688 in table 5 is observed to be less than $R^2 = 0.633395$ indicating that the model is not spurious. This revealed that there is no serial correlation in the model. The value of the probability of F-statistic is 0.000000 which is less than 0.05% level of significance, hence the null hypotheses of no significant impact of industrial performance on poverty rate in Nigeria are rejected and the alternate hypotheses are upheld.

8. DISCUSSION OF RESEARCH FINDINGS

The major indicators of poverty in Nigeria; lack of adequate food, shelter, education and health; vulnerabilities to ill health; economic dislocation; neglect by the government; and exclusion from key decision-making processes and resources in society. Poverty in Nigeria has been the result of economic, political, and industrial processes that interact with each other and frequently reinforce each other in ways that exacerbate the deprivation of the absolute poor. Poverty remains endemic in Nigeria despite the introduction of several industrial policies and anti-poverty programmes by successive governments. According to statistics, the incidence of poverty has significantly increased in Nigeria since 1980. The percentages of the Nigerian population that were classified as 'extremely poor' over the last three decades are as follows: 6.2% (1980); 12.1% (1985); 13.9% (1992); 29.3% (1996); 22.0% (2004) and 38.7% (2010). These increases are strongest among the most vulnerable groups. In 2012, for example, the National Bureau of Statistics (NBS) reported that the poverty crisis in Nigeria varied by region, sector and gender, and impacted Nigerian youth, children and mothers more than the adult male population.

Poverty levels in Nigeria vary widely across the country's geo-political zones where there are no industries. The proportions of the population in these zones that were 'food poor' in 2010 were: North-Central (38.1%); North-East (51.5%); North-West (51.8%); South-East (41.0%); South-South (35.5%); and South-West (25.4%). These statistics are reflections of poor industrial performance in Nigeria. The latter is caused by bad economic policies, inconsistencies and lack of harmonization and implementation of industrial policies over the decades.

This study uses the Textile Industry in particular to examine its impact on poverty Reduction. Nigeria had a prosperous textile industry till the mid 1980's. Before the structural adjustment program by the Babangida's government in 1985, the export of textile products and other manufactured exports in Nigeria was remarkable. The textile sector had an annual growth rate of 67 per cent. Its labour force in 1985 was 25 per cent of the manufacturing sector (NTMA 2009). The inability of the Nigerian textile industry to compete is chiefly due to its failure to produce at lower cost. The causes of the textile industry's decline are predominantly policy neglect, besides that, a range of local and global policy measures also contributed to the situation it is in today. Neo-liberal reforms and changing trade agreements, inadequate infrastructure for providing electricity and water, reduced cotton production and increased textile imports have all contributed to the industry's decline.

The early independence years of the 1960s to the mid-1970s came to be known as the industrial development period aimed at converting abundant raw materials to manufactured goods. Encouraging retailers and wholesalers to convert and become manufacturers was the single most significant impetus to the growth of the textile industry in the country. 112 factories were involved in spinning, weaving and garment production by 1980. The domestic manufacturing sector could have surged if not for the impediment experienced because of the introduction of Structural Adjustment Programmes in the mid-1980s. It is irrefutable that when right policies are implemented the textile sector has the potential to contribute to economic growth and poverty reduction in Nigeria.

Before 1985, the textile industry had become the largest employer of labour after the government. These factories have a direct 250,000 unionised workers, millions of cotton farmers as well as suppliers and traders (Aremu 2005). Direct employment afterwards declined to 175,233 in 1990, when the impact of SAP was full blown, 83,000 in 2000 and 21,000 in 2010 respectively. The industry's share of jobs and value addition was placed at 20 per cent in the mid 1980's. Textile and weaving apparel was the leading industry contributing 19 per cent of total consumer commodity industry employment in 1983. The textile industry is followed by beverages, food, as well as the tobacco industry (Brandell, 1991). Considerably; the industry's turnover has been placed at N8 billion per year. On replacement basis, the installed textile manufacturing capacity was set at N420 billion, and US\$3 billion investments in 1990 (UNIDO, 2003). With a population of over 180 million, Nigeria had the prospect of generating 1.2 billion meters of cloth per annum. When the ECOWAS subregional market is factored, Nigeria is a strategic textile location in the world. The industry can engage 3 million people. 26 out of the 36 Nigerian federating states grow cotton of long and short stable lengths. From this sound and solid context, the textile industry in Nigeria began to decline since the mid-1980s.

As Nigeria takes on more economic liberalisation, the manufacturing industries got weaken with a reduction in aggregate demand, which increases reckless imports, but dampens domestic production and manufacturing output. It also reduces the level of income and the level of employment, creating import-led unemployment. The oil price volatility, rapid decline in government revenues and expenditures have continuously reduced aggregate demand within the economy. It has created serious underutilisation of industrial capacity in the economy. Gross Domestic Product increased by only 1.3% with the annual population growth rate at 2.1%. Aggregate index of industrial production declined by 5.1%, which was more severe in the manufacturing sub-sector that fell by 8.1% as it contributed only 0.9% to the GDP from its 0.5% contribution of 1991 (CBN, 2000). The Central Bank of Nigeria in its annual statement for 1999 reported that the local textile industry suffered from cheaper foreign textile dumping and the sector recorded persistent output contraction or outright closure (CBN, 2000). As at April 2000, President Obasanjo observed that the characteristics of the Nigerian industrial sector include low capacity utilisation, which averages 30% in the last decade. The industrial sector had a low and declining contribution to national output, which averages 6% from 1997-1999. This contributed to declining growth rates; dominance of light assembly type consumer goods, low value-added production due to high import dependence for inputs and the prevalence of unviable state-owned enterprises. Overall, the fiscal narratives of the year 2000 showed that the country's economic performance was largely below average (OPS, 2001).

The long-standing constraints to manufacturing activities have not abated. Thus, the sector was still characterised by the crippling effects of past policy mistakes and undue competitive pressures due to the economic liberalisation policies of the country. 1985 was the most boisterous year in textile production with over 124 big, medium and small textile factories. By the year 2000 three years into the endorsement of the liberalisation policy, thirty-five textile factories closed down leaving behind 89 factories. Within the span of five years by 2005 the number of factories fell to 32. The effect eventually manifested itself in continued unabated dumping reducing the factories to 25 and 16 in 2010 and 2015 respectively. Other challenges include reduction in capacity utilisation; absence of investment in the industry and the situation deteriorated by the day. The factories could not compete with comparatively affordable materials from East Asia. The challenge was further worsened by increased smuggling as the government did nothing to stop the illegal imports. There was also a problem of undeclared products and non-payment of duties even by legitimate importers. Nigerian market was flooded with imported textiles. Total textile imports into Nigeria were estimated at USD 1.7 billion most of which entered through porous borders. All these denied the local manufacturers the essential competitive advantage (NUTGWTN, 2005). The overall performance of the textile industry

in Nigeria is in a state of crises. Average capacity utilisation rates fell from 79.7 percent in 1976 to an all-time low of 48.0 per cent in 2005 (CBN, 2005). By 2008, over 160 textile companies were closed. Capacity utilisation was estimated at less than 20% with ten factories employing barely 18,000 workers. Over two million Nigerians whose jobs were attached to the industry, such as traders, contractors, cotton farmers and the textile workers lost their means of livelihood due to the challenges facing the industry (Muhammad, 2011).

As of 2010, there were less than forty textile factories in Nigeria out of the close to 200 in existence formerly (Aremu, 2015). The distress closures caused in the communities where the factories were located are enormous. According to NUTGTWN (2005), more than one million persons whose means of livelihood are tied to the industry were adversely affected including traders and cotton farmers. The socio-economic consequences were colossal. With the fall of Kano, Kaduna and Lagos textile sector, imported textiles from China and other core trading partners from India, Indonesia and the UK dominated the market. In a way, textile manufacturing has returned to the condition it was in during colonial times in the 1950s when Nigeria imported finished textiles from the United Kingdom. Chinese textile companies and retail companies with foreign offices in Nigeria now distribute to local wholesale and also retail textiles directly to consumers.

9. CONCLUSION

The objective of the study was to empirically evaluate the industrial sector performance and poverty reduction in Nigeria. Nigeria's industrialization is state-driven and government has not been most effective in promoting industrialization in Nigeria. This s chiefly responsible for the poor performance of the Nigerian industrial sector for the period under review (1981-2018). Efforts to utilize Nigeria's immense natural resources for sustained industrialization and economic development were miserable failures. From 1991 after two decades of oil boom till dates, manufacturing subsector still contributes a declining less than 5 percent to Gross Domestic Product. Textile industry would have been an ideal import-substitution for Nigeria: there was demand for Nigeria's textile abroad, cotton was available, technological requirements was not overtly onerous, and textile tends to be a labour-intensive industry. However, politics, too early indigenization, poor quality of indigenous entrepreneurship, poor infrastructure, professional deficiencies, poor decision, poor management, reckless importation and competition from foreign firms in the industry have negatively affected the performance of Nigeria's textile industry. Generally, the failure of Nigeria to industrialize can be traced to politics and corruption where governments have squandered huge oil revenue, with illicit financial flows. Regional politics and corruption have prevented Nigeria from choosing the most economic solution to production and manufacturing problems. These have created an economy that is heavily dependent on imports and increased poverty rather than industrialization and poverty reduction.

Indeed, the role of industrial sector performance in poverty reduction in Nigeria is fundamental and cannot be over-emphasized amidst the challenges faced by the industrial sector. The sector has faced acute challenges such as; poor conception and implementation of industrialization strategies, technological backwardness, inadequate infrastructure, non-completion and functioning of industrial core projects due to inadequate budget allocation, corruption and misappropriation of funds meant for the development of industrial sector, inadequate trained personnel, poor maintenance of equipment, etc. This to a large extent has prevented the industrial sector from having in place the needed employment and increased level of production which would have led to poverty reduction and purposeful economic growth and development. Therefore, the study concludes that the Nigerian industrial sector has a luck-lustre performance and is yet to contribute significantly to poverty reduction in the country. However, aggregate industrial employment and aggregate industrial output are relevant mechanisms that can be used to reduce poverty.

The estimated regression result established a significant positive relationship between aggregate industrial output and poverty rate in Nigeria and likewise between aggregate industrial employment and poverty rate. This is contrary to apriori expectations. The study revealed through causality test that aggregate industrial output granger caused poverty rate, poverty rate granger caused aggregate industrial employment and also, aggregate industrial output granger caused aggregate industrial employment in Nigeria.

The trend analysis shows a relationship between aggregate industrial output and poverty rate and between aggregate industrial employment and poverty rate in Nigeria for the period under consideration.

RECOMMENDATIONS

Based on the findings of this study, the following recommendations become necessary.

- 1. Industrial diversification, privatization, raising indigenous technology innovation through investment in research and development. Establishment of industrial and science parks and promotion of export processing zones (EPZ).
- 2. Government should ensure that budget allocations to industrial sector are actually utilized properly, increase the budget by at least 10 per cent for adequate industrialization. This will surely create employment opportunities, hence increase industrial output and reduce poverty in Nigeria. This can only be feasible when industrial tax rate is reduced at least by 2 per cent to encourage investment and industrial production at maximum level by both domestic and foreign investors. This implies that industrial tax structure should be reviewed to accommodate all and sundry in the industrial sector.
- 3. Government and the private sector should give maximum policy and financial support to small and medium scale enterprises (SMEs) which will spur industrialization in Nigeria. In addition, federal, state and local governments should implement policies that would make Nigeria's industrial sector less vulnerable to global economic forces, example, infant industries protection and local content development policies.
- 4. Government should be proactive in terms of industrial policy consistency and continuity to ensure steady increase in aggregate industrial employment. There should be policy to check corruption and bad governance.
- 5. Government and the private sector should grant subsidy to owners of industries and also enforce the advancement of soft loans to prospective individuals and firms through the commercial banks and other credit worthy banks at low interest rate. At least interest rate charged on soft loans should not exceed 8 per cent and the funds should be made available once applied for. Credit availability will boost business transactions and hence economic activities will increase leading to improved industrial performance.

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APPENDICES

1. Trend Analysis

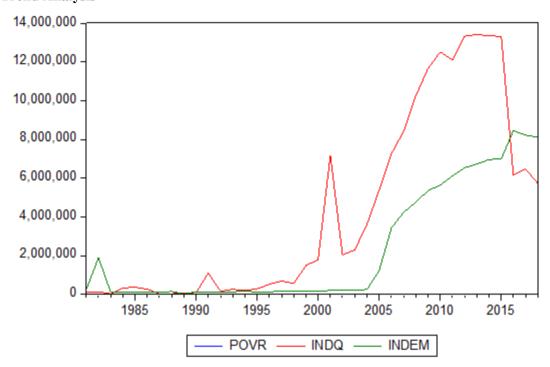
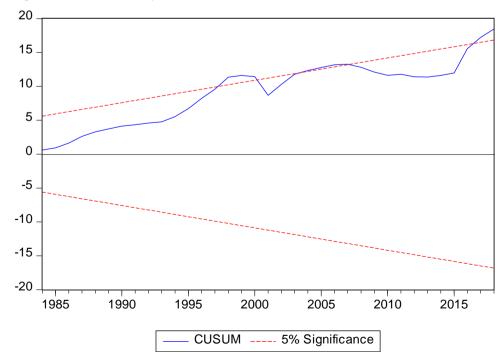


Figure1. The trend of poverty rate (POVR), aggregate industrial output (INDQ) and aggregate industrial employment (INDEM) in Nigeria from 1981-2018.

Source: Computed with e-views 10 by the researcher (2020)



2. Data on Poverty Rate (POVR), Aggregate Industrial output (INDQ) and Aggregate Industrial Employment (INDEM)

Industrial Sector Performance and Poverty Reduction in Nigeria: 1981-2018

YEAR	POVR %	INDQ Nbillion	INDEM Million
1981	27	118028.02	256623
1982	30	124490.22	1884438
1983	34	30681.63	106496
1984	37	329648.11	112588
1985	41	370466.09	121345
1986	44.2	262446.83	97234
1987	44	26662	85634
1988	44	31022.2	145610
1989	44	63546.8	16453
1990	43.9	95226.3	133675
1991	43.8	1100833	111654
1992	43	160043	100235
1993	42.5	258474.5	123564
1994	48	191349.1	187564
1995	53.9	289121.3	102345
1996	59	511777.12	123564
1997	61	690414.2	184373
1998	66	553527.4	163264
1999	68	1493803.6	184239
2000	69	1791198.9	169846
2001	70	7199648.5	194576
2002	71	2031692.1	213456
2003	72	2291291.3	234568
2004	71	3616837	245678
2005	73.4	5391199	1234567
2006	73	7267963.7	3432564
2007	74	8404310	4231674
2008	76	10266548	4765432
2009	75.8	11664532.8	5347865
2010	79	12525329.9	5647812
2011	79	12112951.1	6113479
2012	78	13333837.4	6534986
2013	80	13431421.4	6733389
2014	81	13351143.5	6964353
2015	82.5	13338639.4	7002349
2016	85	6174796.82	8456349
2017	84.6	6476346.63	8221654
2018	83.9	5733172.53	8115432

Source: Central Bank of Nigeria (CBN, 2018) National Statistics (NBS, 2018)

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