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Impact of Small and Medium Scale Enterprise (SME) on Nigeria's Economy from 1981 to 2017.

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ABSTRACT

This study examined empirically the Small and Medium Enterprise (SME) and the Nigerian Economy. The study covered the period 1981–2017, using ARDL approach to cointegration. The ARDL result confirmed the existence no long-run relationship between Growth Rate of GDP, Commercial Bank's Credit to SME, SME Output and Lending Rate. Therefore, this study concludes by recommending that; (i) Governments at all levels should encourage the development of SMEs and create an environment conducive to their success (ii) Government should design policies that will keep lending rates at single digits.

Keywords: Small and Medium Enterprise (SME), Growth Rate of GDP, Auto-Regressive Distributive Lag (ARDL), Nigeria.

INTRODUCTION

Over the years, Small and Medium Scale Enterprises (SMEs) has continued to emerge as a business term in the international business world. This is as a result of the role the sector is playing as it serves as a catalyst for employment generation, which propels national growth aimed at poverty reduction and economic development [1]. SMEs the world over has the capacity to boast huge employment generation given if the environment and support from economic policies. SMEs employ over sixty percent of the work force globally, especially in the advanced world [2]. The everyday needs of Nigerians are products of SMEs; however, the production and supply chain of these products are done with little or no high-tech mechanization. The overdependence on oil over the decades has made Nigeria to depend largely on oil for exports instead of diversifying the economy to other productive sectors like SMEs and agriculture [3]. The high price of petroleum products in the 90s brought enormous inflow of oil revenues that raised the per capita income in most oil producing countries of which Nigeria is one of such countries. A drastic decline in the international oil price marked a turning point in the drop in real per capita income of these countries that

were over dependent on oil, which resulted in increase in the level of poverty in some of these countries, especially in Nigeria [4]. Because of the increase in the population of unemployed graduate in Nigeria, Nigeria as a nation started shifting her efforts towards SMEs to see if the increase in the unemployment rate could reduce, and if possible reduce poverty significantly [5]. SMEs as a strategy for employment generation in the context of this paper and elementary term means reaching standard of acceptable employment generation for citizens to be able and willing to afford the basic necessities of life [6]. Major world powers depend on SMEs to grow their economies. For example, in the United State and the United Kingdom, SMEs account for over eighty percent of the country's workforce. Same is true of China, Germany and France. SMEs in these countries employ of over seventy-five percent its workforces [7]. Nigeria currently witnessing an alarming rate of unemployment rate, which seems to be growing in geometric progression.

The main purpose of this study is to try to identify the impact of small and medium scale enterprise (SME) on the Nigerian Economy.

Conceptual Framework

Small and medium-sized enterprises (SMEs) is a concept that broadly describes the sizes of businesses in an economy. The meaning is determined by the purpose; a definition is expected to support a specific policy governing the

The Roles of Small and Medium Enterprises in Economic Growth

The importance of SMEs in developing countries, such as Nigeria, has been established. Such industries make

Increasing Capacity

SMEs serve as a training ground for indigenous entrepreneurs, propelling the wealth creation process at all levels. It has even been established that SMEs are a breeding ground for entrepreneurship,

Because their mode of operation is more labor intensive, SMEs have the potential to generate employment. Their labor-intensive nature is far greater than that of large corporations. It has also been observed that SMEs create more jobs per

Similarly, by definition, SMEs are involved in primary and secondary economic activities that rely heavily on locally sourced materials. As a result, they

SMEs can easily be located in rural areas because they can survive on rudimentary industrial infrastructure. As a result, they serve as major facilitators for industrial

available to SMEs in Nigeria, as well as their contribution to economic growth at the investment level. To determine the relationship between SMEs financing and investment level, the Spearman's Rho correlation test was used. The analysis revealed a significant Rho value of 0.643 at 10%, indicating that there is a significant positive relationship between SMEs financing and economic growth in Nigeria at the level of investment [2]. Investigated the importance of small and medium-sized businesses in creating jobs and reducing poverty in Nigeria Following

a thorough review of the literature, the

authors concluded that the SME sector is

the primary driving force behind job

reduction,

poverty

creation,

sector. However, countries use three major factors in the classification and definition of enterprises. These include capital investments in plant and machinery, the number of employees, and the volume of production [8].

significant contributions to a country's economic growth and development in the following areas:

und for with individual creativity and innovation serving as the driving force. As a result, they may serve as the university where the vast majority of entrepreneurs receive their training.

Creation of Employment

more unit of investment capital and per unit of ential energy consumed than large scale aborent enterprises around the world [3]. As a result, they have aided in the resolution been of many countries' unemployment problems.

Boosting Growth

achieve high value-added operations, which play an important role in any economy's growth and development.

Industrial Spreading

spreading and rural development, and have the potential to stem rural-urban conjuration.

Empirical Literature Review [1] reviewed specific financing options creation, in

creation, income distribution, and income disparity reduction. [4] used two primary data instruments (questionnaires and interviews) to collect information on the impact of small and medium-sized enterprises on job creation in Lagos State. Nigeria. Two different statistical methods were used (simple percentage and chisquare). The findings indicate that SMEs and the long-term development of the Nigerian economy are linked, just as promotion of SMEs and increased job creation are. Abdul-kemi, (2014) in his Development study Entrepreneurship Program and Facilitation of Youth Employment in Kano State, Nigeria using Ordinary least square his study found Entrepreneurship Development Programmes in Kano State lack capacity to

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the

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finance, competitive pressures, multiple taxes and other fees, and corrupt practices were among the factors working

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SMEs, while against socio-cultural elements availability and labor service costs did not constrain the enterprises. Despite the constraints, SMEs created jobs and expanded employment in the state, contributing to national employment and

output.

METHODOLOGY

The methodology employed in this study is the ARDL approach to cointegration developed by [5]. The main purpose of this study is to try to identify the impact

entrepreneurial ventures and to produce

the desired level of jobs for youth. [6]

used a descriptive approach to investigate

capacities of SMEs in relation to the

business environment in Lagos State.

Taking ten elements of the business environment and two indices of SMEs'

discovered that inadequate access to

account,

creation and

of small and medium scale enterprise

establishment

employment

study

the

To provide an empirical insight into impact of small and medium scale enterprise (SME) on the Nigerian Economy a modified model used by (Aremu andAdeyemi, 2011) is presented below.

GRGDP = β_0 + β_1 SMEQ + β_2 CSME + β_3 LR + β_4 INF + μ ------ (1)

Where:

GRGDP = growth rate of gross domestic

(SME) on the Nigerian Economy. This consists οf the section research methodology which throws more light into the empirical inquiry conducted.

Model Specification

SMEQ = SMEs output proxy by Wholesale and Retail Trade output as a component of gross domestic product (GDP);

CBSME = commercial bank's credit to SMEs:

LR = Lending rate

INF = Inflation;

The ARDL bounds testing approach to cointegration is based on the following error-correction model:

product; error-correction model:
$$\Delta GRGDP_{t} = \phi_{0} + \phi_{1}GRGDP_{t-1} + \phi_{2}SMEQ_{t-1} + \phi_{3}CSMEQ_{t-1} + \phi_{4}LR_{t-1} + \phi_{5}INF_{t-1} + \sum_{i=1}^{m} \beta_{1i} \Delta GRGDP_{t-1} + \sum_{i=0}^{m} \beta_{2i} \Delta SMEQ_{t-1} + \sum_{i=0}^{m} \beta_{3i} \Delta CSMEQ_{t-1} + \sum_{i=0}^{m} \beta_{4i} \Delta LR_{t-1} + \sum_{i=0}^{m} \beta_{7i} \Delta INF_{t-1} + E_{t} \dots$$
 (3.2)

Estimation Procedure

The estimation begins with Augmented -Dickey fuller (ADF) unit root test to confirm the stationarity states of the

variables and the short and long-run dynamics of the variables are estimated using ARDL

EMPIRICAL RESULTS AND DISCUSSION

Unit root test

Table 1:Result of Unit Root Test

| rable 1, kesait of office koot rest | | | | | |
|-------------------------------------|-----------|-----------|------------|------------|--|
| VARIABLES | CRITICAL | ADF T- | ORDER OF | REMARK | |
| | VALUES 5% | STATISTIC | STATIONARY | | |
| GRGDP | -2.948404 | -3.956034 | 1(0) | Stationary | |
| SMEQ | -2.957110 | -11.29745 | 1(1) | Stationary | |
| CBSME | -2.951125 | -3.832205 | 1(1) | Stationary | |
| LR | -2.948404 | -2.926116 | 1(1) | Stationary | |
| INF | -2.951125 | -5.233570 | 1(1) | Stationary | |

Source: Author's Analysis

Table 1 presents the result of stationarity test using the Augumented Dickey-Fuller test of stationarity. The result indicated that the growth rate of GDP (GRGDP) is integrated of order I(0) at 5 % level of significance meaning stationarity at level,

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while SMEQ, CBSME, LR and INF were stationary after the first difference that is

I(1). The null hypothesis of non-stationary

is rejected.

ARDL Bounds Test and Short Run Error correction form

ARDL Error Correction Regression Dependent Variable: D(GRGDP) Selected Model: ARDL(2, 1, 1, 1, 1)

Case 2: Restricted Constant and No Trend

Sample: 1981 2017

Included observations: 34

ECM Regression
Case 2: Restricted Constant and No Trend

| Variable | Coefficien t | Std. Error | t-Statistic | Prob. |
|--|---|--|---|--|
| D(GRGDP(-1)) D(CBSME) D(SMEQ) D(LR) D(INF) ECM(-1)* | -0.376893 0.000297 0.001603 0.172311 -0.149264 -0.446739 | 0.134889 0.000912 0.008688 0.135262 0.055307 0.131009 | -2.794092 0.326103 0.184540 1.273907 -2.698835 -3.409977 | 0.0103 0.7473 0.8552 0.2154 0.0128 0.0024 |
| R-squared Adjusted R-squared S.E. of regression Sum squared resid Log likelihood Durbin-Watson stat | 0.541034 0.459076 3.625848 368.1098 -88.73826 2.054238 | Schwarz c | ndent var o criterion | 0.152545 4.929940 5.572839 5.842197 5.664698 |

^{*} p-value incompatible with t-Bounds distribution.

Null Hypothesis: No levels F-Bounds Test relationship

| Test Statistic | Value | Signif. | I(0) | I(1) |
|------------------|---------------|-------------------------|-----------------------------|------------------------------|
| F-statistic K | 1.591921 4 | 10% 5% 2.5% 1% | 2.2 2.56 2.88 3.29 | 3.09 3.49 3.87 4.37 |

Source: Author's Analysis

Cointegration Test: From Table 2 above, the calculated F-statistic of the variables is 1.591921and is lower than the upper bound critical value of 3.49 at the 5% level of significance using restricted intercept and no trend. This implies that the null hypothesis of no cointegration cannot be rejected at the 5% level of significance, and this therefore confirms the existence of no long-run relationship among the variables of interest. We then conclude

that there is no long-run relationship between SME and the Nigerian Economy. The parsimonious error correction model (ECM) result presented in table 4 above is based on the ARDL (2, 1, 1, 1, 1) model. From the result, the coefficient of SMEs output (0.001603) is statistically insignificant. This means that the output recorded by SMEs cannot drive the economy of Nigeria. There is no adequate environment for SMEs to thrive. These

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factors ranges fromgenerating electricity, registering the business, getting credit, paying high taxesand labor market regulation. This result is similar with Nigeria's position of 169th out of 190 countries in the World Bank Ease of Doing Business report for 2017. The coefficient of commercial bank's credit to SMEs (0.000297) is statistically insignificant. This implies that SMEs do not get adequate credit form commercial banks. The process of getting credit facilities by SMEs should be reviewed. Lending rate also found to be statistically was insignificant, meaning that SMEs find it difficult in borrowing from Banks. And from our finding Inflation was negative and statistically significant. The statistical fitness of the model was confirmed by the Adjusted R-squared which stood at

0.459076. This means that 45.90% of the variation in GRGDP is explained by the combined effects of all the explanatory variables used during the period of study. This suggests that about 54.6 percent of variation in GRGDP is accounted for by factors not captured in the model. The result also shows that the ECT (-1) is negative and significant. The significance of ECT is evidence that causality runs in at least one direction. The ECT (-1) of -0.446739is the speed of adjustment from the short-run equilibrium to the long-run equilibrium. This suggest that in a situation of short-run disequilibrium or deviation. 44.6739 percent of adjustment to the long-run takes place within one period either by market mechanism, government intervention or both of them.

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Diagnostic Tests

The model was checked for autocorrelation using the Breusch-Godfrey Serial Correlation LM Test which is shown in table 3 below.

Breusch-Godfrey Serial Correlation LM Test:

| F-statistic | 0.534542 | Prob. F(2,23) | 0.5930 |
|---------------|----------|---------------------|--------|
| Obs*R-squared | 1.510188 | Prob. Chi-Square(2) | 0.4700 |

Source: Author's Analysis

The table above presents the result of the Breusch-Godfrey test for autocorrelation. From the value of the prob. Chi-Square of 0.4700, we cannot reject the null-

hypothesis of no auto correlation which is desirable in the model. This therefore indicates the absence of autocorrelation in the model.

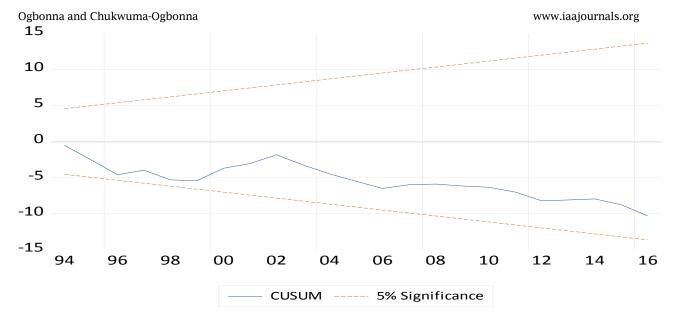
Heteroskedasticity Test: Breusch-Pagan-Godfrey

| F-statistic | 1.807731 | Prob. F(8,25) | 0.1230 |
|---------------------|----------|---------------------|--------|
| Obs*R-squared | 12.46021 | Prob. Chi-Square(8) | 0.1318 |
| Scaled explained SS | 8.343620 | Prob. Chi-Square(8) | 0.4006 |

Source: Author's Analysis

The model was also checked for heteroskedasticity using Breuch-Pagan-Godfrey test. From the above table, the value of the prob. Chi-Square of 0.4006, we cannot reject the null-hypothesis of no heteroskedasticity which is desirable in

the model. This therefore indicates the absence of heteroskedasticity in the model. Furthermore, the model was subjected to a stability test using the CUSUM test which result is shown in figure 1 below.



Source: Author's Analysis Figure 1, above shows the outcome of the CUSUM test of stability which indicates that the model is stable, given that the

CUSUM line is within the 5% significance boundary.

CONCLUSION AND RECOMMENDATIONS

This study investigated theimpact of Small and Medium Scale enterprise (SME) on Nigeria's Economy from 1981 to 2017. The empirical findings from the Autoregressive Distributed lag (ARDL) model, revealed that SMEs cannot drive the economy of Nigeria, SMEs do not get adequate credit form commercial banks, that SMEs find it difficult in borrowing from Banks and there is no long run relationship between Small and Medium Scale enterprise (SME) and the Nigerian Economy.

The following insightful recommendations are given bellow.

✓ Governments at all levels should encourage the development of SMEs and create an environment conducive to their success. So that

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there will be less difficulty in doing business in Nigeria.

- ✓ Commercial banks should package loan products designed specifically for SMEs, so that lending rates will be lower at most single digit, longer repayment terms should also be factored in and less collaterals should be demanded from SMEs for the to get credit facilities.
- ✓ To avoid mismanagement of the investors' fund, adequate monitoring of the entrepreneurs who borrowed money from the bank should be in place. This will encourage the use of equity financing for productive purposes.
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