Financial Systems Theory and Control of Finances: Policy Initiatives for Access to Finance in Nigeria

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Abstract: - The financial sector has witnessed several policy initiatives that have shaped the Nigerian financial system into what it is today. However, little study has been done on long-term effect of previous policies initiatives on the current loan access by firms, and this is the main objective of the study. The ARDL technique and error-correction model was used to check the long run effect of policy initiatives on loan in Nigeria utilizing data derived from the CBN statistical bulletin and world development index (1986-2019). Findings revealed that lending portfolio of deposit money banks has a negative and statistically significant relationship with domestic credit given to the private sector. In addition, the study recommended, amongst others, that regulatory authorities initiate policies that will create a platform for long term sustainable relationship with bankers and customers.

Keywords: - Financial Systems Theory, Control of Finances, Financial sector, Policy initiatives, Bank lending, Concentration Theories, Long-run effect, ARDL

Received: March 3, 2020. Revised: September 19, 2020. Accepted: September 30, 2020. Published: October 22, 2020.

1 Introduction

The ability of industrial firms to access loans from banks is dependent on the policies in place to obtain the funds. The ability to access finance in emerging economies like Nigeria is a major concern of individuals and institutions. Statistics have shown that over 90 per cent of businesses being run in Nigeria are small and medium enterprises which have the potential to become larger and alleviate poverty and unemployment [2]; [7]. However, the ability of those businesses to access finance is limited by the policies in place to obtain finance and even sustain loan repayment [5].

According to the [16], the smaller the business in Nigeria the less likely the ability of the business to access finances. Only one out of three businesses have a fifty percent chance of accessing finance due to the collateral policies in place and the inability of medium and small businesses to meet those standards [14]. On the flip side, deposit money banks are exposed to diverse risks and also greater levels of competition as they grow therefore policies are initiated to protect them from shocks that might occur and also protection of depositors' funds.

The banking industry is majorly responsible for lending of short term cash flows of businesses and firms given the fact that it is a player in the money market which is short term in nature. However, loans constitute over 80% of the source of profits of a bank and access to loans by firms help to prompt economic development [1]. As much as it is a necessity for financial institutions to make loans available to small firms that will enable their growth, it is also mandatory that they ensure that their loans are insured due to the fact that banks are custodians of depositors' funds [14]. The type of firm a bank lends to depend on the offshoot of the banks values and objectives. However, policies put in place by the monetary authorities go a long way to shape the goals of financial institutions and their lending policies.

The ability of firms to access finance is dependent on the policies initiated to govern the lending activities of the banks in the long run. Therefore, the research will show whether policy initiatives monetary authorities has positive long-run impact on access to finance in Nigeria. It analysed bank lending data during the period of consolidation reform by

E-ISSN: 2224-2856 563 Volume 15, 2020

the CBN and an econometric analysis of the long-run effect of those policy initiatives on the access to finance in the Nigerian economy using data of 33 years to incorporate major policy reforms that have taken place in the financial industry.

2 Literature Review

Several policy initiatives and reforms have been instituted since the banking ordinance of 1952 which have continued to strengthen the banking system. In 1992, the industry experienced liberation from government control during which the industry experienced a greater need for reform due to deep financial distress. The industry after this, witnessed in 2000-2002, the introduction of Universal banking [12]; [13]. This enabled banks to engage in other banking and non-banking functions. However, this new-found freedom to engage in other functions made several banks neglect the core intermediation function [18]. There was the popular reform of 2004 which sought to not only strengthen the banking system and weed out the fringe players but also change the face of the banking system. The 2004- 2005 consolidation reform which followed the removal of government owned deposits from banks created a shock in the system. The reform championed by Charles Soludo led to the reduction of 89 to 25 banks in the industry [17]; [16]; [15]; [9]. The post-consolidation era of 2008 was period of testing for the banks that had made it through the consolidation era.

2.1 Theoretical review of literature

2.1.1 Pro-Concentration Theory

The supporters of increased concentration of banks contend that bank mergers and acquisitions drive up economies of scale and synergy consequently binging about increased effectiveness and efficiency of the system [3]; [4]. To support this, [4] analysed 122 U.S. banking organizations and found an indirect connection between size and unpredictability of bank returns. Be that as it may, these discoveries are dependent on circumstances in which the consolidations were intentional, excluding the consolidation cases of 2004 in Nigeria. Advocates of this theory contend that a concentrated system of bigger banks is better as they can diversity and are less prone to shocks that a system of many

small fragile banks and is easier to monitor [6]; [10].

3 Model Specifications

The study takes into consideration the consolidation reform of 2004 (which required banks to recapitalise and increase their capital base) which forms the basis for the study's variable selection and model specification. The study utilizes secondary data from the Central bank statistical bulletin for the years 1986-2016.

The theoretical framework of the analysis is based on the bank concentration theories. The expectation of the analysis is that, a result showing a positive long run relationship between the banking policies and access to finance will have a consensus with the proponents of the Pro-concentration theory and a negative long run relationship will have results in line with the pro-deconcentration theory. The theoretical framework enabled the study to adopt a model that represents the effect of policy initiatives on access to finance in Nigeria. The access to finance is represented by the variable DCP which domestic credit to the private sector (source from the world development index) which serves as the dependent variable while the independent variables of the study are Lending portfolio for commercial banks (LPC) and Lending rate (LER) (both independent variables where sourced from the Central Bank statistical bulletin, 2016). The lending portfolio of commercial banks serves as a proxy for increased bank capitalization due to the consolidation reform and the lending rate (prime) serves as the minimum rate at which firms can access loans.

The study adopted the modified ARDL model of [1] and is specified as:

$$\Delta DCP_{t} = \alpha_{0} + \Sigma \beta i \Delta DCP_{t-i} + \Sigma \gamma j \Delta LCP_{t-i} + \Sigma \delta k \Delta LER_{t-i} + \theta 0DCP_{t-1} + \theta 1LCP_{t-1} + \theta 2LER_{t-1} + \mu_{t}$$
 (1)

The adopted and modified ECM model of [9] is stated as:

$$\Delta DCP_{t} = \alpha_{0} + \Sigma \beta i \Delta DCP_{t-i} + \Sigma \gamma j \Delta LCP_{t-i} + \Sigma \delta k \Delta LER_{t-i} + \phi ECM_{t-i} + \mu_{t} \quad (2)$$

DCP= f(LCP, LER)
Credit to the private sector (DCP)
Lending portfolio for commercial banks (LPC)
Lending rate (LER)

4 Data Analysis and Results

4.1 Augmented Dickey-Fuller (ADF) Unit root Test

In order to test the data stationarity, the ADF unit root test was carried out and the result below in table 4.1 shows that the dependent variable is stationary at first difference while the independent variables were stationary at levels. Due to this result, the study analysed its data using the autoregressive distributed lag (ARDL) co-integration technique.

Table 4.1: Result of Unit Root Analysis using ADF

14010 1010 1100 01 0110 11000 1111011 510 40111 512 1									
VARIABLES	ADF TEST STATISTICS AT LEVEL	5% CRITICAL VALUES AT LEVELS	ADF TEST STATISTICS AT 1 st DIFFERENCE	5% CRITICAL VALUES AT 1 ST DIFFERENCE	ORDER OF INTEGRATION	REMARK			
DCP	-2.574322	-2.963972	-4.796105	-2.963972	I(1)	1st DIFFERENCE			
LER	-3.238867	-2.963972	-2.862019	-2.963972	I(0)	LEVEL			
LPC	3.578006	-2.998064	-2.720163	-2.998064	I(0)	LEVEL			

Source: Author's Computation

4.2 ARDL Bounds Test

To analyze the long-run relationships among the variables, the research used the ARDL econometric method. The reason for the ARDL technique is because of the unit root test result which had all the variables stationary at both levels and first difference. The ARDL bounds test is mainly joint F – statistic. The first step is model estimation using OLS. The OLS shows whether a long-run relationship exists in the model using F-statistics. The null hypothesis of no co-integration is rejected when test statistic value exceeds the upper critical bounds value. The F – test result is shown below:

Table 4.1: ARDL Bounds Test

Tubic iiii iiiibb bounds rest						
Variables	F-Stats					
F(DCP, LPC, LER)	4.609138					
Critical Value	Lower Bound	Upper Bound				
1%	4.13	5				
5%	3.1	3.87				
10%	2.63	3.35				

Source: Author's computation

From table above, there exists a long-run cointegrating relationship between *DCP* and *LPC*, *LER*. The F-stat (4.609138) is greater than the 5% and 10% upper bounds and lower bound at all levels of significance. This means we reject the null hypothesis.

4.3 ARDL Long-Run Coefficients

The estimation of the long-run equilibrium relationship between variables is carried out.

Table 4.4: Estimated Long Run Coefficients

Dependent Variable: DCP									
Variable	Coefficient	Std.	t-stat	Prob.					
		error							
LPC	-8.46E-04	1.38E-04	-	0.0000					
			6.144554						
LER	4.99E-02	1.54E-01	0.324114	0.7510					
С	-1.11899	3.35107	0.33392	0.7438					
EC = DDCP - (-0.0008*LPC + 0.0499*LER -1.1190)									

Source: Author's computation

From the table above, the relationship DCP and *LPC* is negative significant with t-stat of -6.144554. This means in the long run, increased portfolio of bank loans will have a negative relationship with domestic credit. Lending rate, *LER*, has a positive long-run cointegrating relationship with DCP, and is

E-ISSN: 2224-2856 Volume 15, 2020

significant at 5% significant level (t-value = 0.324114).

4.4 Discussion of Findings

Looking at the relationship between policy and access to finance, Central banks impose policy initiatives on the banking system to strengthen and improve their efficiency in carrying out their lending function. Therefore, an increased credit towards the private sector is expected to increase with favourable policy initiatives. From the estimation of the long-run relationship of the model, its shows that loan portfolio of commercial banks in the period of consolidation have negative significant relationship with domestic credit in the long-The negative impact implies that increased bank portfolio due to policy changes has negative relationship with credit to the private sector in the long-run. This means most bank loans are short term in nature. Also, banks portfolio contains investment in other areas like stock broking, and so on.

This result is in line with the prodeconcentration theory which states that policy changes that make for large banks for instance consolidation exercise do not necessarily make for more efficient banks due to the influence they can have over policy initiatives to work in their favor and not necessarily in the favor of the society, in this case the private sector. The error correction model gave a result showing fast adjustment to unfavorable changes of the independent variable at a rate of 250%. The adjustment of the dependent variable to negative effect of the independent variable is very fast implying that negative effect of changes in independent variables due to variations in policies does not have a lasting impact on access to finance by the private sector.

5 Conclusion and Recommendations

In light of the discoveries above, it is presumed that an efficient banking system initiative is crucial for a sustainable banking industry. Monetary authorities should focus on implementing policy initiatives that engender long term relationships between banks and creditors.

Policy makers and bank regulators will be better equipped to coordinate their administrative control towards improving and

reinforcing directions that will encourage the simplicity of getting to finance by small and developing businesses in the economy. The final product of this will be gainful banking activities as well as a more sustainable industry that enables the ease of accessing finance.

This study prescribes occasional increment in the banks' capitalization particularly since the hyper-inflationary rate in our economy isn't hinting at subsiding. This will manage the cost of the bank financial leverage to play out a portion of its key formative roles particularly in the real segment of the economy bringing about the muchwanted national monetary advancement.

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