



RESEARCH ARTICLE

CASHLESS POLICY AND BANKS' FINANCIAL PERFORMANCE IN NIGERIA:
EMPIRICAL ASSESSMENT

*Sunday Oseiweh OGBEIDE and Florence Modupe FAPOHUNDA

Department of Accounting and Finance, Faculty of Social and Management Sciences, Elizade University,
Ilara- Mokin, Ondo State, Nigeria

ARTICLE INFO

Article History:

Received 22nd April, 2017
Received in revised form
28th May, 2017
Accepted 10th June, 2017
Published online 31st July, 2017

Key words:

Automated Teller Machines,
Point of sale,
Web based technique,
Bank size, Return on assets.

ABSTRACT

This study examined cash less policy and the financial performance of banks in Nigeria. Time series data for the period 2007 to 2016 for five variables representing about fifty (50) annual observations was generated from the Central Bank of Nigeria Economic Reports and Nigeria Deposit Insurance Corporation Annual Reports. The study used Augmented Dickey Fuller test to determine the stationary state of the variables. It also employs the descriptive statistics and panel least squares multiple regression method to analyze the data generated. The empirical findings revealed that cash less policy largely determined the financial performance of banks in the Nigerian banking sector as indicated by the coefficient of determination. The volume of Automated Teller Machine (ATMVL) and Point of Sales (POSVL) were found to increased banks financial performance though not statistically significant. Web based Technique volume and bank size were negative and not statistically significant on the financial performance of banks. The study there recommends that more ATM centers/ outlets should be opened by banks through the influence of the Central Bank of Nigeria in order to enhance the success of the cash less policy. Point of Sales should be encouraged in business transactions by investors, the government and the general public at large in Nigeria as this would further deepen the penetration of the cashless policy.

Copyright©2017, Sunday Oseiweh OGBEIDE and Florence Modupe FAPOHUNDA. This is an open access article distributed under the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original work is properly cited.

Citation: Sunday Oseiweh OGBEIDE and Florence Modupe FAPOHUNDA. 2017. "Cashless policy and banks' financial performance in Nigeria: empirical assessment", *International Journal of Current Research*, 9, (07), 55247-55252.

INTRODUCTION

Theoretically, cashless policy is presumed to have a corollary effect on income generation, reduction of cost and consequently increase in performance level, customers' deposit, quick and easy accesses to financial services and size of banks in the banking sector. Osazevbawu, Sakpaide and Ibubune (2014) state that most banks in Nigeria in their operations under a cash based economy are known for the huge profit they declare each year, notwithstanding the fact that such system is characterized by high cost of operations. Cash dependency by Nigerians has been a major issue of concern to CBN prior to the cashless policy in Nigeria (Pius, 2014). The cashless policy though new in Nigeria is quite enhancing to the business climate. It however has certain draw backs. High level of fraud and fraudulent practices is observed to associate with the cashless policy. Since the cashless policy is all about electronic money transactions, series of cybercrime and fraud have been a common thing with it in Nigeria over the years in addition with high level of unstable networks.

*Corresponding author: Sunday Oseiweh OGBEIDE,
Department of Accounting and Finance, Faculty of Social and Management Sciences, Elizade University, Ilara- Mokin, Ondo State, Nigeria.

Similarly, in the first quarter of 2017 the Central Bank of Nigeria mandating banks to charge 1.5% on cash withdrawals and deposits above five hundred thousand naira (N500, 000) has continued to elicit sharp reaction from members of the public. A lot of persons have begun to nurse uncertainty as regard the workability of the CBN cash less policy occasioned by this harsh policy development by the apex bank in Nigeria. While banks tend to make huge earnings from this policy development, customers who are the depositors are at the receiving end. This could cause them to strategize alternative way of keeping their hard earned money. This policy development could be seen as imbalance given the current harsh economic condition in Nigeria. These ills associated with the cash less policy and the recent CNB policy have the likelihood to make a lot of persons see the evolvement of the cashless policy as less preferable to the cash based policy/practices. Never the less these teething issues, the policy has tend to influence the attitude of Nigerian in cash handling, smooth and effective business transaction as well as other transactions with the banks. This presupposes that banks have a way of benefitting from the policy directly or indirectly. Directly, the policy has the propensity to increase the volume of deposit and indirectly, it could influence banks' earnings and consequently the financial performance. Premised on this,

it of essence to empirically determine how the cash less policy has influenced banks financial performance in Nigeria. Similarly, since the evolution of the cashless policy in Nigeria, an avalanche of research works on both theoretical and empirical fronts have been effectuated but these prior studies (Akhmalumen, 2012; Odior & Bannso, 2012; Ejiofor & Rasak, 2012; Mieseigha & Ogbodo, 2013; Emegwu&Emeti, 2015) majorly focused on the prospect, benefit, problems and challenges of the discourse with the exception of the study by Osazevbanu & Yomere (2015) on cashless policy and banks' profitability. Majority of the researches have not really examined the nature of relationships between cashless policy and the financial performance as well as the impact of the policy on banks in the Nigeria banking industry, hence this study is undertaken with a view to contributing to existing literature on the empirical fronts.

LITERATURE REVIEW

Theoretical Review

The volume of cash carried about by persons in the Nigerian society appears to have significantly reduced since the advent of the cashless policy by CBN. Observations in some nooks and crannies in urban cities in Nigeria indicates most persons have become friendly with the use of the Automated Teller Machine (ATMs) at effectuating varying bank transactions. Electronic money transfer seems to be on the ascendancy which is an indication that banks have fully embraced the policy and put necessary machineries to ensure a huge success. This obviously forms the increase of the number of ATM and POS centers. However, these facilities are not used by customers without certain financial charges. The income banks derive from these charges occasioned by full implementation of the cashless policy increases the total revenue / income generated annually. This presupposes that on the theoretical front, a relationship should exist between the cashless policy and bank total income. A lot of banks in Nigeria in terms of their operations under the cashless policy make huge profits yearly, judging by the astronomical figures usually declare quarterly, half-yearly and annually. Osazevbaru, Sakpaide and Ibbune (2014) study revealed that cash based economy is not without cost to the banking system, government and individuals; noting further that high cash usage results in high cost of processing borne by every entity across the value chain. They report that the cost of printing new notes as a result of frequent handling of cash is said to cost a colossal amount annually to bank customers, thus causing banks to profit from it. Generally, cost of cash in Nigeria's financial system is high and on the increase (CBN, 2011; Nweke, 2012). Buttressing this further, extract from Central Bank of Nigeria (2012) reveals that cash in transit cost ₦27.3 billion, representing 24%, processing fees and cost stood at ₦89.1 billion representing 24% while vault management cost amount to ₦18.1 billion, representing 9% of the total cost of cash to the Nigerian financial system; the total cost of cash to both the Central Bank and other banks in 2009 resulted to startling figure of ₦114.5 billion. These statistical evidences actually provided the platform upon which the cashless policy was berthed. The CBN (2012) record shows that transaction volume from ATM withdrawals was 109,592,648; transaction volume from OTC cash withdrawals amounted to 72,499,182; transaction volume with cheques was 29,159,960; POS was 1059,069 while web was 2,703,516. The CBN records also show that before the cashless policy, income to banks from

ATM withdrawals was ₦547,963,240; with ₦5/mile bank changes; ₦362,499,060 and ₦5/mile from OTC withdrawal; ₦145,799,800 and ₦5/mile from cheques; ₦13,383,362.5 from POS while ₦189,246,120 from web. The aggregate income prior to the cashless policy as reported by the CBN in 2013 was ₦1, 258,746,582.50. According to Osazevbaru *et al* (2014), estimate of banks' income under a cashless policy appears quite different. For example, the study revealed that income to banks from ATM withdrawals was nil; the same for OTC cash withdrawals and cheques; POS was ₦2, 276,155750 while web was ₦189, 246,120. They reported that total income to banks from payment channels under the cashless policy was ₦2, 465,401,870 while prior to the cashless policy it was ₦1, 258,746,582.50. Osazevbaru *et al* (2014) empirically determined that banking the unbanked will have a negative impact on banks' income. Prior to the estimation, they juxtaposed their views from the Nation (2014) reports which revealed that 36.3% of the country's adult population is served by the formal financial system. This revelation actually spurred them to find out if banking the outstanding percentage will impact negatively or positively on banks' income. They computed the total value of transaction from POS to be 502,385,386,600 while the income to banks was 46,279,817,325; web total value of transaction was 7,458,886,000 while the income to the banks was ₦522, 122,020. The conclusion they drew was that banking the unbanked impacted positively on the income of banks given that the estimated income of the banks after the financial inclusion of the percentage bankable adults increased significantly from ₦2,465,401,870 to ₦6,801,939,345. The CBN (2011) reports had the cost of banks operation was expected to reduce by 30% in a cashless regime and the estimate of the total cost of operation of banks in a cash based economy was ₦450,000,000. Osazevbaru *et al* (2014) pointed out that the reduction in the cost of banks' operation had significant impact on the profit of banks after the full inclusion of the unbanked population into the formal banking system. By implication, if cashless policy increases bank total income, the profitability can also be positively influenced given that every other factor is held constant. Theoretically, the cashless policy should enhance the volume of banking transaction; and consequently engender the financial performance. In Nigeria, the amount of profits banks churn out on early, half – yearly end quarterly basis is quite bewildering going by the stiff global challenges the economy is faced with. Nonetheless, the increase in profitability is deemed to be influenced by trading volume, high level of customer deposits influence of globalization, amongst other. This study in its novelty seeks to empirically determine and report the impact of the cash less policy on banks' financial performance in Nigeria for the purpose of policy perspective.

Empirical Review

Osazevbaru and Yomere (2015) examined the benefits and challenges of Nigeria's cashless policy. To address the issue, secondary data were collected and analyzed by means of content analysis. The study found that banks' income was higher in cashless setting than in cash based arrangement. The study concludes that cashless policy offers immense benefits to the banking sector; similarly, they recommended that appropriate infrastructures and legal support be provided to facilitate the implementation of the policy. Itah and Ene (2014) determined the impact of cashless banking on banks' profitability in Nigeria. The study used proxies for cashless

banking such as Automated Teller Machine (ATM), point of sale (POS) and web based transaction (WBT) to examine its impact on the aggregate return on equity (ROE) of deposit money banks in Nigeria through an ordinary least square (OLS) multiple regression method of analysis. The finding obtained indicates that ATM and POS are positively related to ROE, while WBT related negatively to ROE. The study attributed the mixed result to high rates of bank charges on online deposits. CBN (2011) during the 24th NCS national conference through data reveals that 51% of withdrawal done in Nigeria was through ATM, while 33.6% was through over the counter (OTC). Cash withdrawals and 13.6% through cheques, payment system was also done through point of sales (POS) machine which accounted for 0.5% and web 1.3%. Therefore, if the introduction of ATM in Nigeria cash withdrawals system reduced OTC withdrawal; then it will implies that introduction of cashless policy supported by application of information technology can achieve more to reduce over dependent on cash payment in Nigerian Economic System (Ezeamama *et al.*, 2014).

In assessing the role of central bank in a cashless society, Claudia and De Grauwe (2001) stressed that central banks gradually lose their monopoly position in the provision of liquidity combined with its subsequent small size which makes it hard to control the short-term interest rates. On the contrary, Marco and Bandiera (2004) argue that increased usage of cashless banking instruments strengthens monetary policy effectiveness and that the current level of e-money usage does not pose a threat to the stability of the financial system. However, it does conclude that central banks can lose control over monetary policy if the government does not run a responsible fiscal policy. Hernado, MacCario and Zazzara (2006) examined the impact of cashless policy (e-banking) of a transactional website on financial performance using a sample of 72 Spanish commercial banks over the period of 1994 – 2002 and ascertained a positive impact on profitability which was similar to De Young, Lang and Nolle (2007), who found that internet banking are more profitable than non-internet banks, though no specification were made as to time of significant reality. Onay, Ozsoz and Heivacroglu (2008) examined the impact of internet banking on banks' profitability of Turkish over the period 1995 – 2005. The study found that internet banking starts contributing to banks' ROE with a time lag of two years thus confirming the empirical findings of Hernado *et al* (2007), while a negative impact was observed for one year lagged during.

Malhotra and Singh (2009) examined the impact of internet banking on performance and risk tracing the experience of Indian commercial banks during June 2007. The study ascertained that the profitability and offering of internet (cashless policy) banking does not have any significant association; which corresponded with the finding of De Young (2005). Mohammed and Saad (2011) empirically examined the impact of cashless policy on the performance of Jordanian banks over the period 2000 – 2010 using OLS regression. The study found that electronic banking otherwise refers to as cashless policy in the context of this study has a significant negative impact on banks performance. Abaenewe, Ogbulu and Ndugbu (2013). Empirically examined cashless policy and bank performance in Nigeria. The profitability performance of the banks was measured in terms of return on equity (ROE) and return on assets (ROA). The analysis was made using the standard statistical technique. The finding showed that the

electronic banking has positively and significantly improved the return on equity (ROE) of Nigerian Banks on the contrary the study ascertained that e-banking has not significantly improved the return on assets (ROA) of Nigeria banks. Suluwan (2000) in an empirical investigation took sample of banks that are located in tenth Federal Reserve District that have adopted electronic banking and those that have not. He compared their financial performances and risk positions and observed that the profitability and risks of these grouped banks were similar. Kurawish and Al-Sa'di (2011) examined cash less policy and bank profitability in Jordan. For banks that applied electronic services for less than two years, they found that there was no significant effect on the Return on Assets (ROA) and Return on Equity (ROE). The study further showed that such services made significant impact on the profit margin of the concerned banks. Alsmadi and Al-wabel (2014) study on cashless policy and bank performance showed that banks' financial performance was negatively affected by the influence of cash less banking. Shehu, Aliyu and Musa (2013) investigated electronic banking products and performance of Nigerian listed deposit money banks. The study finding indicates that e-mobile and ATM transactions has strongly and significantly impacted on the performance of Nigerian banks while on the other hand, it revealed that e-direct and SMS alert have not significantly impacted on the performance of the banks.

MATERIALS AND METHODS

Method of data analysis and Model Specification

This study employed the longitudinal research design. A sample period of 2007 to 2016 was taken. Data for this study were generated from Central bank of Nigeria (CBN) economic report and the Nigeria Deposit Insurance corporation (NDIC) various issues. The study employs the ordinary least squares multivariate regression. This was effectuated after the unit root tests and diagnostic tests were carried out. However, the deterministic and stochastic forms of the models employed to achieve the main objective of this study are stated below:

The deterministic form of the regression model:

$$\text{Financial performance} = F(\text{cashless policy}) \dots \dots \dots (1)$$

The above mathematical model is further stated in stochastic forms as:

$$ROA_t = \beta_0 + \beta_1 ATMVL_t + \beta_2 POSVL_t + \beta_3 WEBVL_t + \beta_4 SIZE + \mu_t \dots \dots \dots (2)$$

Where

ROA represents return on assets, a proxy of banks' financial performance and is the dependent variable.

β_1 to β_4 represents coefficient of the parameters of estimation and t is the period in question.

ATMs represent volume of automated teller machines in the banks in the period under investigation. POS represents volume of point of sales. WBT represents volume of web based techniques in the banking industry and SIZE represents bank size, proxy as number of banks. β_0 is the intercept while μ_t is stochastic disturbance term acting as a surrogate. Apriori expectations are β_1 to $\beta_4 > 0$. This implies the independent

variables are expected to relate to the proxies for the dependent variables in the construct under the period observed.

Empirical Analysis

Table 1. Unit root test results

Variables	ADF statistic value	Test critical value at 5%	Meaning
ROA	-4.097992	-3.320969	Stationary at first difference
ATMVL	-2.297894	-2.021193	Stationary at second difference
POS	-4.042890	-2.006292	Stationary at second difference
WBTVL	-3.345831	-2.021193	Stationary at second difference
BNKSIZE	-4.077513	-2.021193	Stationary at second difference

Source: Computed from E-view 8.0 (2017)

The stationarity test results above showed that ROA is stationary at first difference, but at second difference, it can be observed that the variables, ATMVL, POS, WBTVL and BNKSIZE were stationary at 5% significant level. This is so given that ADF test statistic is greater than test critical value at 5% level. It simply indicates there is no likelihood of obtaining spurious regression result.

Table 2. Diagnostic tests

Variance inflation factors (VIFs)		
	Coefficient	of variance
centered VIF		
ATMVL	14941.67	NA
ATMVL	0.001384	1.197828
POSVL	2.026975	4.370518
WBTVL	6.412756	1.120394
BNKSIZE	24.33257	4.419010
Breusch – Godfrey – serial correlation LM test		
F-statistic = 3.608083	Prob. F(2, 3)	0.1591
Obs * R-squared = 7.063477	Pro. Chi-square (2)	0.5721
Heteroskedasticity test Harvey		
F-statistic 7.138446	Prob. F(4, 5)	0.0268
Obs * R-squared 8.509855	Prob. Chi-square	0.0746
Ramsey Reset Test		
t-statistic = 2.037180	Df = 4	0.1113
F-statistic = 4.150103	Prob. F(1, 4)	0.1113

Source: Researchers' compilation from Eview 8.0 (2017)

The diagnostic table above shows that the variance inflation factor statistic is less than 10 (centered VIF < 10) for each of the variables. This indicates absence of multicollinearity among the explanatory variables. The ARCH (Harvey) Heteroskedasticity test shows the presence of homoscedasticity (0.0268 > 0.05), thus confirming the constant variance assumption of the ordinary least square estimator. The Breusch-Godfrey serial correlation LM test result of 0.1591 > 0.05) points out the absence of higher order correlation. The Ramsey Reset Test result of (0.1113 > 0.05) substantiate validity of the regression model.

Table 3. Correlation Analysis

	Roa	Atmvl	Posvl	Wbtvl	Bnksize
Roa	1	0.057	0.329	-0.286	-0.336
Atmvl	0.057	1	0.275	0.293	-0.280
Posvl	0.329	0.275	1	0.068	-0.875
Wbtvl	-0.286	0.293	0.068	1	-0.001
Bnksize	-0.336	-0.280	-0.875	-0.001	1

Source: E-View 8.0

The table above depicts the matrix of the Pearson Products Moment Correlation coefficient for all the variables used. The correlation results shows that all the explanatory variables have both positive and negative associations with the return on

assets in the period evaluated. For example ATNVL is positively associated with ROA. POSVL and ATMVL are positively related ($r=0.068$ and $r=0.293$). WBTVL is negatively correlated with BNKSIZE ($r=-0.286$, $r=-0.336$). In a nutshell, it can be said that all the variables re-enforce in a mutual perspective.

Descriptive Analysis

Table 4. Panel least square regression result

	Roa	Atmvl	Posvl	Wbtvl	Bnksize
Mean	16.06500	203.7000	5.780000	3.110000	23.30000
Median	19.89000	211.1000	2.350000	3.100000	24.00000
Maximum	24.11000	375.5000	14.90000	7.200000	25.00000
Minimum	-9.280000	15.70000	0.400000	0.900000	21.00000
Std. Dev.	10.05705	117.5502	5.867765	1.670296	1.702939
Skewness	-1.761155	-0.116053	0.529923	1.349922	-0.492342
Kurtosis	5.109058	2.019968	1.498059	4.907590	1.610913
Jarque-Bera	7.022829	0.422640	1.407959	4.553358	1.207985
Probability	0.029855	0.809515	0.494613	0.102624	0.546625
Sum	160.6500	2037.000	57.80000	31.10000	233.0000
Sum Sq. Dev.	910.2976	124362.5	309.8760	25.10900	26.10000
Observations	10	10	10	10	10

Source: E-View 8.0

The result above indicates that the financial performance of banks in the Nigeria banking sector occasioned by the cash less policy in the period considered is 24% approximately on the maximum average while Jarque- Bera result shows the data is statistically significant and was normally distributed. The volume of ATM on the maximum average was about 375.5000units. The Jarque- Bera statistic value showed it is significant and normally distributed in the period. The maximum average volume of POS was 14.90000units and based on the J-B value it was statistically significant and normally distributed. WBT has a maximum volume of 7.200000units and was normally distributed judging by the result of the Jarque- Bera statistic. Maximum bank size in terms of number on the average was 25 and the data was significant and normally distributed in the period. All these statistical descriptions have ways of engendering banks' financial performance in Nigeria.

Panel Least Squares Regression Result

Table 5. The β_3 size should be β_4 size as against the β_3 before the error term

Variables	Coefficient	Prob.value
C	34.894***** (122.236) [0.285]	0.786
Atmvl	0.004***** (0.037) [0.123]	0.906
Posvl	0.4006***** (1.423) [0.281]	0.789
Wbtvl	-1.914***** (2.532) [-0.756]	0.483
Bnksize	-0.692***** (4.932) [-0.140]	0.893
R-square	=0.721	
Adjusted R-square	= 0.689	
F-statistic	= 0.333	
Prob.(F-statistic)	= 0.000	
Durbin-Watson stat	= 2.854	

*****Coefficient values; () *standard error in bracket;

[] * T- statistic value in parenthesis

E-views 8.0 Output

The table above the model determined about 68% systematic variation in the dependent variable, financial performance of banks in the Nigeria banking sector using the adjusted coefficient of determination, leaving about 32% unaccounted for due to stochastic error term. It suggests that the cash less policy has enhanced the financial performance of banks in the period considered; and this finding is intriguing. It is a pointer that the policy has benefitted the banks largely. The F – Statistic value of 0.333 reveals that all the explanatory variables put together are statistically significant at 99% level. It indicates the goodness of fit of the model and that the components of the cash less policy have significantly increased banks financial performance in Nigeria generally. It is not out of place to assert here that the policy by the apex bank appears lopsided. It is much more skewed in favour of the banks and less to bank customers and other stakeholders. The individual coefficients indicated that a unit change in ATMVL and POSVL increase banks financial performance and however not statistically significant at 95% levels. While a unit change in WBTVL and BNKSIZE were observed to cause a decrease in banks' financial performance and were also not statistically significant at 95% levels. The Durbin – Watson statistic value of 2.854 shows a complete presence of serial Autocorrelation in the time series data; and of course this level of autocorrelation is expected in this kind of study because the shortness of the period covered could cause it so and in econometric analysis this is not uncommon if the time series are considerably not lengthy enough.

The empirical investigation of the cash less policy and banks financial performance at this period the Nigerian nation is going through economic turbulence is quite timely and of essence. The policy was implemented by the Nigeria apex bank with the intention to shift from cash based to cash less based one; although it does not imply absence of physical cash in circulation. Since the inception of the policy, a lot of persons have benefitted from it, including corporate bodies. The policy seems to be driving the success of business climate in Nigeria despite pockets of challenges associated with it. The result from the above analysis revealed that the volume of Automated Teller Machine (ATMVL) and Point of Sales (POSVL) are positive and increased banks financial performance though not statistically significant. The non-significance may be adduced to the nature of the time series used. For instance the period examined was quite short. Similarly it could be that a large number of persons are yet to embrace the use of ATM and POS in Nigeria perhaps due to some challenges associated with its usage such as frauds, cybercrime and other related issues. We may also add here that the cost implication of having to maintain these Automated Teller Machines and POS could another factor why more volumes of them are not circulated by banks to encourage the cash less policy in Nigeria. The empirical finding is quite in tandem with Osazevaru and Yomere (2015), Osazevaru *et al* (2014), Itah and Ene (2014), Ogbulu and Ndugbu (2013). Bank size as a control variable was found to cause a decrease in banks financial performance; meaning correlation does not even exist between the cash less policy and bank size at positively influencing the financial performance of banks in the Nigerian banking sector. Bank size has over the years observed not to enhance banks performance hence the need for further consolidation in Nigeria (e.g see Igbinsa and Ogbeide, 2016).

Conclusion and Recommendations

The study has examined the cash less policy and how it engenders the financial performance of banks in Nigeria. The intriguing findings are the cash less policy significantly enhances the financial performance of the banks. Particularly volume of Automated Teller Machines (ATMVL) and point of sale (POSVL) have increased part of the income generation of banks and by implication the financial performance of the banks in Nigeria in the period considered. Only Web based Technique volume and bank size did not contribute to the financial performance of banks. The study therefore suggests that the Nigeria apex bank should review the recent policy mandating banks to charge 1.5% on every cash deposits and withdrawals of five hundred thousand naira (N500, 000) across the counter. It is absolutely a sort of policy summersault. This is so because such harsh policy has the tendency to adversely affect perception and enthusiasm of stakeholders in the Nigerian banking industry and much more the financial inclusion policy pursuit in Nigeria as earlier advanced by the CBN. More ATM centers/ outlets should be opened in order to enhance the success of the cash less policy. This is suggested in that ATM contributes positively to the success of the cash less policy and income generation, consequently the financial performance of the banks in the Nigerian banking sector.

Caution should be exercised by the apex bank in Nigeria at influencing the cash less policy in favour of banks as this could make the policy one way sided. The interest of myriad stakeholders with regards to the policy should be carefully considered before further decision on it is undertaken by the Federal Government through the regulatory authority. Point of sales (P.O.S) should be encouraged by organizations and other businesses at effectuating business transactions as this would enhance its contribution to the cash less policy in Nigeria. Furthermore, future researchers need to examine the impact of the cash less policy on banks performance on pre and post basis. This would assist them to know and report on the empirical front how the policy has done fairly well in the periods.

REFERENCES

- Achor, P.N. and Robert, A. 2013. Shifting policy paradigm from cash – based economy to cashless economy: The Nigeria Experience. *Afro Asian Journal of Social Sciences*, 4(4), 1 – 16.
- Akhalumeh and Ohiokha 2012. Nigeria's cashless economy: The imperative. *IJBMS* 2(2).
- Basel committee 1998. "Risk management for electronic banking and electronic money activities", Basel committee publications, No. 35.
- EFInA 2014. Access to financial services in Nigeria 2014 survey. [Http://www.efina.org.ng/our-work/research/ access-to-financial-services-in-nigeria-survey/efina-access-to-financial-services-in-nigeria-2014-survey/](http://www.efina.org.ng/our-work/research/access-to-financial-services-in-nigeria-survey/efina-access-to-financial-services-in-nigeria-2014-survey/).
- Ejiofor, V.E. and Rasaki, J.O. 2012. Realising the benefits and challenges of cashless economy in Nigeria: IT perspective, *International Journal of Advances in Computer Science and Technology*, 1(1).
- Emegwu, C. and Emeti, E. 2015. Integrating cashless economic policy in Nigeria: Challenges and prospects. *International Journal of Business and Behavioural Sciences*, 3(5), 18 – 32.

- Igbinosa, S. O. and Ogbeide, S.O 2016. Banking sector development and performance of the Nigerian economy. *International Journal of Management Science Research*, 1(1), 1-12.
- Mieseigha, O.I. and Ogbodo, O.A. 2013. The imperative of a policy framework for cashless Nigeria. EPPAN policy soviet series No. 01.
- Odior, E.S. & Banuso, F.B. 2012. Cashless banking in Nigeria: Challenges, benefits and policy implications. *European Scientific Journal*. 8(12), 289 – 315.
- Osazevbaru and Yomere 2015. Benefits and challenges of Nigeria's cashless policy. *Kuwait chapter of Arabian Journal of Business and Management Review*. 4(9).
- Osazevbaru, N.O., Sakpaide, E.J. and Ibubuhe, R.O. 2014. Cashless policy and banks' profitability in Nigeria. *European Journal of Accounting and Auditing and Finance Research*, 2(10), 1- 12.
- Pius, P.I. 2014. The impact of the central bank of Nigeria (CBN) cashless policy on the banking subsector in Sokoto metropolis. Being a published masters in banking and finance project submitted to the post graduate school, Usman Dan Foduyo University, Sokoto.
- Yusuf, S.A., Adedina, Z.O. and Egbekule, S.O. 2015. CBN cashless policy: Does it financially include micro – entrepreneurs in informal sector? Empirical verity from Ogun – State, Nigeria. *American Journal of Economics*, 5(6), 595 – 608.
