Impact of Customer Relationship Management (CRM) on the Performance of Deposit Money Bank in Nigeria.

Salihu Adam Jiddah, Adamu Mohammed Sani, Musa Idris Umar, Ibrahim Toro Lawal, Abba Kabir Alkantara

Abstract-This research seeks to examine the impact of CRM on the performance of deposit money banks in Nigeria between 1999 and 2013. The researchers uses OLS multiple regression to examine the impact of complaint management, timeliness in service delivery, security of money and ease of opening account on ROA, ROE and ROI of deposit money banks. The co-integration test carried out showed that there is the existence of long-term equilibrium relationship between CRM and deposit money banks performance. Furthermore, the result from the analysis showed that CRM had greatly impacted on ROA and ROI of deposit money banks. The models for ROA and ROI showed there is a significant relationship between CRM and deposit money bank performance, but the ROE model showed otherwise, reminiscent from the analysis therefore are that deposit money banks in Nigeria need to extend more branches to clustered areas and locations as a strategy of diversifying investment opportunities. This will enable the banks handle the timeliness in service delivery efficiently for maximization of ROE.

Index Terms: Customer Relationship Management, Bank Performance, Deposit Money Banks, Return on Assets, Return on Investments, Return on Equities, Nigeria.

1. INTRODUCTION

igeria bank operates in a very dynamic marketing environment as a result of rapid changes in technology, consumer tastes, economic and social forces. The worldwide flux in the financial market has affected the conditions for operations in the market as well, and bank have experience a radical change during the last decade. In order to survive, the banking industry like all other organization must adapt to the changing business environment, including changing customer need and wants. To effectively adapt to the changing environment, achieve set goals and objective as well as improve organizational performance, organization need to design different marketing strategies and policies that focus on the forces of service delivery rather than the service itself and Customer Relationship Management is one of such strategies (Eisingerich & Bell, 2006).

Banks in their capacity as financial intermediaries channel savings and investments from the surplus unit to the deficit unit of the econmy, thereby increasing the volumes of the national savings and investments; and consequently the national output. CRM identifies the present and future markets, selects the market to serve and identifies the progress of existing and new services. Onut (2007) saw

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CRM as a business strategy to identify the banks most profitable customers and prospects, and devotes time and attention to expanding account relationships with those discretionary decision making, and customized service all customer. delivered through the various sales channels that the bank customers.

or improper information, failed promises among others.

service in our banking industry can be mistaken to mean companies. major problem that customers of certain banks have been business maximizes utility. made to experience. In most cases, the customer hardly receives the payment of the money transferred in his In the marketing literature, the term customer relationship account immediately.

Concept of Customer Relationship Management

Literature Review

marketing and define it as creation, development, and them have been indicated in the following section. improvement of individual relationships with customers in management is a systemic managerial process for creating, (Richards and Jones, 2008). maintaining, and developing relationships with customers in every position in order to maximize relationship value Analytical customer relationship management:

customers through individualized marketing, reprising, efficient and effective efforts that are tangible for every

uses. Nigerian bank are often making efforts to satisfying Customer Relationship Management has developed as an big customers, that is, profitable customers with large approach based on maintaining positive relationships with balances are being pampered with premium services. While customers, increasing customer loyalty and expanding small saver with law balance are considered unprofitable, customer lifetime value (Brassingtor & Pattit, 2000). and are left to get cold. Accounts average balance, account Customer Relationship Management is defined as a firm's activity, service usage, branch visits and other variables are practices to systematically manage its customers to being used to assess profitable and non profitable maximize value across the relationship lifecycle (Martin, 2010). Furthermore customer relationship management is defined as the overall process of building and maintaining Nigeria Banks have fall short of the expectations of their profitable customer relationship by delivering superior customers in recent time. Customers have experienced customer value and satisfaction. (Kotler & Armstrong, challenges ranging from delays, stock out, non-availability 2010). Moreso, it could be defined as managing detailed of staff at service points, unprofessional conduct or information about individual customers and carefully rudeness by the staff of the bank, poor standard of records managing customer "touch points" maximize customer loyalty (Kotler,S 2010). Understanding the needs of customers and offering value added services are recognized In the words of Ogunnaike and Ogbari (2008), customer as factors that determine the success or failure of Customer relationship management customer delay and frustration. According to the Authors increasingly important to firm as they seek to improve their almost every Nigeria bank encounters similar problem in profit through long-term relationships with customers. meeting customers' expectation of services and customer Many years ago, economists introduced the concept of satisfaction. The issue of money transfer in banks is one value maximization, whereby a firm maximizes profits and

management and relationship marketing are used interchangeably. Thus, (Shain, 1992) have defined relationship marketing as an integrated effort to identify, maintain and build up a network with individual Everyone has different perception from customer consumers and to continuously strengthen the network for relationship management strategies and because of this the mutual benefit of both sides, through interactive issue different definitions have been presented for this individualized and value-added contacts over a long period concept. Some authors consider customer relationship of time (Giudici & Passerone, 2002, Kubat, 2003). Customer management as a revolted version of relationship relationship management has different types that some of

order to maximize their total life cycle value (Payan & Operational customer relationship management: in this Frow, 2009). Another definition refers to customer system, an employee is asked to undertake all functions of relationship management as a technology that is aimed to customer relationship management from marketing and create and maintain the individual relationships with sale to post-purchase services and customer feedback. profitable customers through appropriate use of the Operational customer relationship management includes information and communication technologies (Seeman & public business section (sale force automation), customer Hara, 2006). On the other hand, customer relationship service and support, and enterprise marketing automation

Richards & Jones (2008). Also customer relationship collected data from operational customer relationship management refers to the participative and interactive management is analyzed for categorizing the customers relationship between business and its customers for and recognizing the up-selling and cross-selling. In the acquiring a comprehensive view about customers and ideal condition, the commercial decisions are screened predicting and satisfying their needs and wants through based on the resulted feedback from past decisions and analysis during time. It is possible to decrease the customer and Lievense 2004). It is also to create better profits and analytical through customer management implementation. This can be done through Investing in Customer Relationship Management (CRM) recognizing the customers may leave the organization and enhances a stronger, more trusting relationship between the effort to increase their loyalty. As a result, the goals of customer and the organization (Morgan and Hunt, 1994) as profitability and costs decrease can be done (Greenberg, well as improved organizational performance (Dewulf, 2002).

technique facilitates the interactions between organization shareholder value through targeted marketing activities and customers through several communication channels directed towards developing, maintaining, and enhancing (such as telephone, post, internet, e-mail, and face-to-face successful company -customer relationship (Berry, 1983; communications). Also the coordination between team of Morgan and Hunt, 1994). All these require an in - depth the employees and communication channels is supported understanding of the CRM variables and the effect that is in this model. The participative customer relationship expected to have on customers and organizational management is asystem that integrates the employees, performance. processes, and data so that the organizations can deliver favorable services for their customers. On the other hand, participative customer relationship management results in Empirical Review of CRM and Performance the efficient and effective interactions with customers Different researches have been done about CRM through all of the communication channels. Indeed, the use frameworks but there has been limited academic effort of internet-based cooperation and participation can about the issue of the CRM process and firm performance. decrease the customer services costs. Participative customer Some researches tried to understand the consequences of relationship management facilitates the multi-channel CRM (Ryals & Knox, 2001; Ryals & Payne, 2001) .There is interaction between individual customers through services some evidence focus on CRM's impact on organizational centers integration (Greenberg, 2002).

Concept of Performance

Organizational performance is described as the net result of impact of CRM on different aspects of performance, for the combined efforts of all individuals and groups in the example aspects that are related to the company (Palmatier, organization. It is what the organization as a collectivity of et al, 2007) or aspect that are related to customers(management and employees succeed in achieving Gustafsson, Johnson, & Roos, 2005; Mithas, Krishnan, & (Khandwalla, 1977). Organizational performance is one of Fornell, 2005). the most important constructs in management research and without a doubt the singularly most important measure of Reinartz (2004) attempts to relate CRM activities that lead the success of a commercial enterprise. Performance refers to satisfaction of different business performance measures. to the assessment of progress, at different organizational There are some other studies that show a relationship levels, toward achieving predetermined goals (Bourne et between the activity of customer satisfaction and business al., 2003). Prior research has studied business performance performance (Kamakura, de Rosa, & Mazzon, 2002). There from different perspectives, such as financial performance, is also some study that expresses the association between business unit performance, or organizational performance activities that lead to customer loyalty and commitment -(Venkatraman and Ramanujam 1986). To measure profitability and retention (Reinartz & Kumar, 2000; organizational performance, one must consider the Verhoef, 2003). Reinartz et al. (2004) also tried to establish a financial and non-financial performance of a firm link between CRM and organizational performance. As (Avlonitis, Papastathopoulou, Gounaris, Papastathopoulou, and Avlonitis, 2003).

Financial Performance

Financial performance refers to a measure of how well a In the initiation and maintenance stages, some support was firm uses assets from its primary mode of business to found for CRM's impact on Performance, but little support generate revenues, while non - financial is a long-term was found for CRM's impact on the termination stage. operational objective that emphasizes the importance of Some researchers stress that sales force efficiency and increasing customer loyally, attracting new customers and effectiveness will improve by applying the CRM process enhancing the image and reputation of a form (Blazevic (Jones, Sundaram, & Chin, 2002). Rigby et al., 2002

relationship sales performance especially the financial service sector. Odikerken Schroder and Issobucci 2001).CRM explicitly recognizes the long-run value of potential and current Participative customer relationship management: this customers, and seeks to increase revenues, profits, and

performance (Reinartz, Krafft, & Hoyer, 2003; Day & Van den Bulte, 2002). Different articles showed the positive

and Gounaris 2001; mentioned before they found CRM has three distinct customer relationship-related stages: initiation, maintenance, and termination. They found CRM has an impact on perceptual performance across the three stages. expressed that one potential CRM benefit that did not make be increased and also the time of delivering services to subsumes technical efficiency. Risk plays no explicit role in customers will be decreased for organizations that apply these performance functions, although some papers include that CRM can decrease the marketing and sale cost. It can variables. also decrease the customer loose rate and increase customer The Non-Structural Theory of Performance value. Customer relationship management helps to However, the non-structural approach to bank performance improve customer perception about product and service. So measurement usually focuses on achieved performance and it can lead the increment of revenue (Dutu & Halmajan, measures performance in equation by a variety of financial 2011). Chang (2007) emphasized that CRM can impact on ratios, e.g., return-on-asset, returnon- equity, or the ratio of different measures of performance. He showed CRM can fixed costs to total costs. However, some applications have decrease the marketing and service cost. The revenue of the used measures of performance that are based on the market company also increases by cross / up selling, CRM possess value of the firm (which inherently incorporates marketstress on customer segmentation based on customer needs priced risk), e.g., Tobin's q-ratio (which is the ratio of the and information. So the company can improve product market value of assets to the book value of assets); the /service quality. Ullah & Al-Mudimigh,2009 and O, Sharpe ratio (which measures the ratio of the firm's Reilly, 2000 expressed if companies notice on CRM process, expected excess return over the risk-free return to the it can help them to increase their profit and also the volatility of this excess return (as measured by the standard shareholder revenue. Due to one of the important activities deviation of the excess return)); or an event study's of CRM process is gathering data about current and cumulative abnormal return, CAR (the cumulative error potential customers and creating a database, so the terms of a model predicting banks' market return around a employee has access to important information about particular event). Other applications have measured customers and their needs and can improve their service performance by an inefficiency ratio obtained by estimating based on their requirements so it can leads employee either a non-structural or structural performance equation satisfaction.

The Traditional and Modern Theory of CRM

Gifford (2002). The modern CRM theory refers to the idea corporate control environment. For example, the nonbusiness involves integrating the customer (more precisely how performance ratios are correlated with asset based on satisfying all of the needs people, system, framework for these studies. processes etc-across the customer's organization, such as might be affected and benefited by the particular supply.

The Structural Theory of Performance

the list includes improved employee motivation Lošťáková Over time, the traditional structural approach usually relies ,(2007) Believed an organization can Develop time of on the economics of cost minimization or profit product modification for a customer compared to maximization, where the performance equation denotes a competition and increase a number of newly introduced cost function or a profit function. Occasionally, the products compared to the competition . She also expressed structural performance equation denotes a production CRM cause increase sales volume of individual customers function. While estimating a production function might tell and also sales revenue with individual customers. us if the firm is technically efficient, i.e., if managers organize Customer satisfaction and loyalty is as consequences of production such that the firm maximizes the amount of CRM process too. Kim, Suh & wang (2003) also suggested a output produced with a given amount of inputs (so that the model that emphasizes CRM process can improve customer firm is operating on its production frontier), we are more satisfaction, increase customer loyalty, and reduce interested in economic efficiency, i.e., whether the firm is customer cost and increase customer revenue and profit for responding to relative prices in choosing its inputs and organizations. The length of interaction with customers will outputs to minimize cost and/or to maximize profit, which CRM (Khirallah, 2004). La Valle & Scheld (2004) expressed one or more dimensions of risk in the estimation as control

as a frontier. The non-structural approach then explores the relationship of performance to various bank and environmental characteristics, including the bank's The traditional and modern theory of CRM was cited in investment strategy, location, governance structure, and of integrating the customer: this new way of looking at the structural approach might investigate technology by asking the customer's relevant people and processes) into all acquisitions, the bank's product mix, whether the bank is aspects of the supplier's business, and vice versa. This organized as a mutual or stock-owned firm, and the ratio of implies a relationship that is deeper and wider than the outside to inside directors on its board. While informal and traditional arms-length supplier-customer relationship. The formal theories may motivate some of these investigations, modern approach to customer relationship management is no general theory of performance provides a unifying

> Using the frontier methods in a non-structural approach, Hughes, et al. (1997) proposed a proxy for Jensen and Meckling's agency cost: a frontier of the market value of assets fitted as a potentially nonlinear function of the book

value investment in assets and the book value of assets Source: CAC, 2013 squared. This frontier gives the highest potential value n = observed in the sample for any given investment in assets. For any bank, the difference between its highest potential value and its noise-adjusted achieved value represents its lost market value – a proxy for agency cost (X-inefficiency). Where, Several studies have used either this systematic lost market n = sample size; value or the resulting noise-adjusted q-ratio to measure N = population size; performance: Baele, De Jonghe, and Vander Vennet (2006), e= Level of precision required; Hughes, et al. (2003), DeJonghe and Vander Vennet (2005), 1 = constant Hughes and Moon (2003), Hughes, et al. (1999), Hughes, In determining the sample size, the following variables Mester, and Moon (2001), and Hughes and Mester were used: (forthcoming).

Habib and Ljungqvist (2005) specified an alternative Substituting into the formula, market-value frontier as a function of a variety of b. Sample size for the number of customers to be used managerial decision variables, including size, financial leverage, capital expenditures, and advertising n = expenditures. Thus, the peer grouping on whom the frontier is estimated is considerably narrower than the wide grouping based on investment in assets, and inefficient n = choices of these conditioning values are not accounted for in the measurement of agency costs.

Methodology

This study employed both descriptive and survey research. Both primary and secondary data was used for the study with questionnaire as research instrument. Questionnaire was administered to raise data meant for triangulation and r the results analyzed to establish the relation between customer relationship management and organization performance of some selected bank in Nigeria (First Bank, UBA, Zenith Bank, Sky bank, fidelity bank, Eco Bank, GT r Bank and Diamond banks)

S/N	COMMERCIAL BANKS	POPULATION
1	Access Bank, Nigeria Plc	5.7 million
2	Diamond Bank Nigeria Plc	4.3 million
3	Eco-Bank Nigeria Plc	9.6 million
4	Fidelity Bank Nigerian Plc	2.3 million
5	First Bank Nigeria Plc	8.5 million
6	Guaranty Trust Bank Plc	4.4 million
7	United Bank for Africa Plc	7 million
8	Zenith Bank Nigeria Plc.	2 million
	Total	43800000

Population for this consists of all the deposit commercial banks. The sample of banks for the study was determining using simple random sampling. Since all these banks operate in the same environment under the same policy etc. while respondent sampling was determined using Yamane sampling determination formular.

Table 1: Commercial Banks and Customer base in Nigeria

 $1+N (e)^{2}$

Confidence interval = 95 %

e = Margin of error = 0.05

$$n = N$$

$$1+N (e)^{2}$$

$$n = 43,800,000$$

$$1+43,800,000 (0.05)^{2}$$

n =	43800000	
	1+43,800,000(0.0025)	
n =	43,800000	
	1+ 109500	
n =	43800000	
	109501	

n = 399 customers

Table 2: Selected Commercial Banks and Sampled Customers base- Nigeria

g	S/	COMMERCIAL BANKS	POPULA TION	SAMPLED CUSTOMER PER
2.	17	DAINKS	HON	BANK
e	1	Access Bank, Nigeria Plc	5.7 million	$\frac{399*5700000}{438000000} = \frac{399*57000000}{438000000000000000000000000000000000000$

2	Diamond Bank Nigeria Plc	4.3 million	$\frac{399*4300000}{120000000} =$	β = denotes variable
			43800000	$\mu_t = 0$
3	Eco-Bank Nigeria	9.6	399*9600000 _	x = 0
	Plc	million	43800000	Model Specification The model specification t
4	Fidelity Bank	2.3	399*2300000	follows
	Nigerian Plc	million	43800000	$ROA = \beta_0 + \beta_1 X_1 + \beta_2 X_1$
5	First Bank Nigeria	8.5	399*8500000	$ROE = \beta_0 + \beta_1 X_1 + \beta_2 X_2$
	Plc	million	43800000	
6	Guaranty Trust	4.4		$ROI = \beta_0 + \beta_1 X_1 + \beta_2 X$
	Bank Plc	million	399*4400000 _	Where;
			43800000	ROA = Return o ROI = Return on I
7	United Bank for	7 million	200 * 700000	ROE = Return on I
/	Africa Plc	7 1111111011	$\frac{399*7000000}{}$ =	X_1 = Complaint ma
	7 HI ICU I IC		43800000	X_2 = Timeliness in X_3 = Security of mo
0	7 'd D 1	2 :11:		$X_4 = $ Ease of opening
8	Zenith Bank	2 million	399 * 2000000 =	IV Findings and Disc
	Nigeria Plc.		43800000	Co-integration Test. Hypo
				The evidence of co-integral
То			399	run relationship among t
tal				tests are undertaken base
C	CAC 2012			(1990) maximum likelihoo

Source: CAC, 2013

The questionnaire was the instrument used in data collection and distribution was by me, the respondents was required to read each question carefully and indicate their agreement or disagreement with the statement using a 5 point liker scale. On the other hand secondary data was used from the statement of the account of the various banks performance as three of the variables of the research.

The major statistical analysis that was used in this study is regression analysis; simple regression analysis will be used. This analysis was used in order to find the linear relationship between independent variable, which CRM (complaint management, high quality services, security at money and friendliness of employee) and dependent variable which are organization performance (Return on Asset, Return on Equity, Return on Investment).

The simple regression result will be express as follow:

$$Y_i = \beta_0 + \beta_i X_i + \mu_t - - - - - 1$$

Where

Υ denotes the dependent variable

denotes the intercepts

the coefficient of explanatory

denotes the error term

denotes the independent variable

test three hypotheses and their as

$$ROA = \beta_0 + \beta_1 X_1 + \beta_2 X_2 + \beta_3 X_3 + \beta_4 X_4 + \mu_1 - - - - 2$$

ROE =
$$\beta_0 + \beta_1 X_1 + \beta_2 X_2 + \beta_3 X_3 + \beta_4 X_4 + \mu_t$$

ROI =
$$\beta_0 + \beta_1 X_1 + \beta_2 X_2 + \beta_3 X_3 + \beta_4 X_4 + \mu_t - - - - - 4$$

on Asset. Investment Equity. anagement

service delivery

oney ing account.

cussion of Result

othesis One

ration implies that there is a long the variables. The co-integration ed on the Johansen methodology ood framework. The essence is to establish whether long-run relationships exist among the variables of interest .If two or more time series are not stationary, it is important to test whether there is a linear combination of them, which is stationary. Variables are cointegrated if they have a long term or equilibrium relationship between them (Gujarati, 2004). It is a pretest to avoid spurious regression situations.

Table 3: Results of Johansen Multivariate Co-integration Test

Date: 06/03/14 Time: 16:02 Sample (adjusted): 2001 2013

Included observations: 13 after adjustments Trend assumption: Linear deterministic trend

Series: ROI ROA ROE X1

Lags interval (in first differences): 1 to 1

Unrestricted Cointegration Rank Test (Trace)

Hypothesized		Trace	0.05 Critical	
No. of CE(s)	Eigenvalu	e Statistic	Value	Prob.**
None * At most 1 *	0.979130 0.891064	90.42803 40.12531	47.85613 29.79707	0.0000 0.0023

At most 2	0.485417	11.30442	15.49471	0.1934	C	-26130904	11206728	<i>-</i> 2.331716	0.0419
At most 3	0.185493	2.667240	3.841466	0.1024	X1	4102307.	2075922.	1.976137	0.0764
-					= X2	-122594.0	1149162.	-0.106681	0.9172
Trace test ind	icates 2 coint	egrating eq	n(s) at the (0.05 level	X3	3810964.	1465890.	2.599762	0.0265
* denotes reje	ction of the h	ypothesis a	t the 0.05 le	evel	X4	71697.09	1517680.	0.047241	0.9633
**MacKinnon	-Haug-Miche	elis (1999) p	-values						
					R-squared	0.516957	Mean de	pendent var	906886.6
					Adjusted	R-			
					squared	0.323740	S.D. dep	endent var	1324948.
					S.E.	of			
					regression	1089572.	Akaike i	nfo criterion	30.90167
					Sum squa	red			
					resid	1.19E+13	Schwarz	criterion	31.13769
					Log likelih	ood -226.7625	Hannan-	Quinn criter.	30.89915
					F-statistic	22.675521	Durbin-V	Watson stat	1.687591
Unrestricted	Cointegrat	ion Rank	Test	(Maximu	mProb(F-				
Eigenvalue)					statistic)	0.0304274			
Hypothesized		Max-Eigen	0.05						

Critical Prob.** No. of CE(s) Eigenvalue Statistic Value None * 0.979130 50.30272 27.58434 0.0000 At most 1 * 0.891064 28.82089 21.13162 0.0034 At most 2 0.485417 8.637177 14.26460 0.3176 At most 3 0.185493 2.667240 3.841466 0.1024

Max-eigenvalue test indicates 2 cointegrating eqn(s) at the 0.05 level

From the co-integrated result above in table 3, the trace test indicates two co-integrating equation at 5% level. Also, the banks ROA. Max-eigenvalue test indicates two cointegrating equation at 5 %level. The model thus shows that there exists a long-run Model Two (Return on Equity Model) equilibrium relationships among CRM variables and ROE, ROA and ROI used in the analysis. It shows that the variables move together in the long run. As such, we reject the first null hypothesis (H01).

Model Estimation and Discussion of Findings Model One (Return on Asset Model)

$$ROA = \beta_0 + \beta_1 X_1 + \beta_2 X_2 + \beta_3 X_3 + \beta_4 X_4 + \mu_t - - - - - 2$$

From the regression result, the R-squared was found to be 51.95 percent, which shows that the model has a good fit. The R-square value confirms that the CRM has a positive impact on the ROA of deposit money banks in Nigeria. It shows that complaint management, timeliness in service delivery, security of money and ease of opening account had a great impact on the deposit money bank return on assets. The model is also free of autocorrelation as the Durbin-Watson (DW) value of 1.68 (approximately 2.0) shows, and thus the model can be relied upon for policy making. The F-statistics showed that the overall model is statistically significant. The F-statistic value of 0.03(3%), which is less than 0.05 (or 5%) showed that there is a significant relationship between CRM and deposit money

$$ROE = \beta_0 + \beta_1 X_1 + \beta_2 X_2 + \beta_3 X_3 + \beta_4 X_4 + \mu_t - - - - - 3$$

Table 5: Regression Result on ROE

Dependent Variable: ROE Method: Least Squares Date: 06/03/14 Time: 15:05

Sample: 1999 2013

Included observations: 15

Table 4: Rog	rossion Rosult on ROA	included observations. 15						
Table 4: Regression Result on ROA Dependent Variable: ROA Method: Least Squares				Variable	Coefficien	t Std. Error	t-Statistic	Prob.
Date: 06/03,	/14 Time: 15:04			С	799596.2	1091594.	0.732503	0.4807
Sample: 199	Sample: 1999 2013				22958.62	202205.7	0.113541	0.9118
Included ob	servations: 15			X2	-31735.62	111934.4	-0.283520	0.7826
Variable	Coefficient Std. Error	t-Statistic	Prob.		-19193.47 -118094.2	142785.3 147830.0	-0.134422 -0.798851	0.8957 0.4429

^{*} denotes rejection of the hypothesis at the 0.05 level

^{**}MacKinnon-Haug-Michelis (1999) p-values Source: Authors Computation, 2014 (Eview-7.0)

R-squared	0.136259	Mean dependent var	298438.3
Adjusted	R-		
squared	-0.209237	S.D. dependent var	96512.25
S.E.	of		
regression	106130.0	Akaike info criterion	26.24392
Sum squar	red		
resid	1.13E+11	Schwarz criterion	26.47994
		Hannan-Quinn	
Log likeliho	ood-191.8294	criter.	26.24140
F-statistic	0.394388	Durbin-Watson stat	1.147900
Prob(F-			
statistic)	0.808279		

banks ROE in Nigeria.

Model Three (Return on Investment Model)

$$ROI = \beta_0 + \beta_1 X_1 + \beta_2 X_2 + \beta_3 X_3 + \beta_4 X_4 + \mu_t - - - - - - 4$$

Table 6: Regression Result on ROI

Dependent Variable: ROI Method: Least Squares Date: 06/03/14 Time: 15:06

Sample: 1999 2013

Included observations: 15

Variable	Coefficient	t Std. Error	t-Statistic	Prob.
C X1	2469370. 428897.7	8293851. 1536344.	0.297735 0.279168	0.7720 0.7858
X1 X2	-1556889.	850469.5	-1.830624	0.7858
X3 X4	-932654.4 1617591.	1084872. 1123202.	-0.859691 1.440161	0.4101 0.1804
R-square	d0.772756	Mean de	ependent var	
Adjusted R-square	d0.261858	S.D. dep	endent var	938562.6
S.E. c	of806367.7	Akaike i	nfo criterion	30.29967

regression		
Sum		
squared		
resid 6.50E+12	Schwarz criterion	30.53569
Log	Hannan-Quinn	
likelihood -222.2475	criter.	30.29715
F-statistic 12.241637	Durbin-Watson stat	2.148955
Prob(F-		
statistic) 0.027052		

The regression model of return on Investment is presented in table 4.4.3. The result showed the R-squared value 77.27 percent confirms that model has a very good fit. It From the regression result of ROE, it was observed that the showed that about 77.27percent variations or changes in R-squared is very weak as captured by the 13.62 percentage ROI is explained by CRM variables, while the remaining value. This means that about 13.62 percentage changes in 22.73 percent unaccounted variable is captured by the error ROE is explained by complaint management, timeliness in term. This result thus showed that CRM has a strong service delivery, security of money and ease of opening impact on deposit money banks ROI. The complaint account, while the greater percentage value of 86.38 percent management, timeliness in service delivery, security of is captured by the error term. It therefore shows that CRM money and ease of opening account had improved the has no impact on the ROE of deposit money banks. It return on investment of deposit money banks in Abuja. The appears that the complaint management, timeliness in F-statistic value of 0.027, which is less than the critical value service delivery, security of money and ease of opening of 0.05, showed that model is statistically significant. This account has not improved the return on equity of deposit thus confirms that complaint management, timeliness in money banks in Abuja. This poor impact was also service delivery, security of money and ease of opening confirmed by the overall insignificancy of the model. The F- account had a significant relationship with the return on static value of 0.39(or 39%) was found to be greater than the investment of deposit money banks in Abuja. The Durbinprobability value of 5%. This thus showed that there is no Watson (DW) value of 2.14 showed that the model is not significant relationship between CRM and deposit money serially correlated and can be relied upon for policy analysis.

Conclusion

It was identified that the bank resolves customers' complaints within a short period and has put in place channels to address such grievances that are brought before the banks officials. More so, the ease of opening accounts and security of money had been a viable CRM towards ensuring effective service delivery. The overall CRM strategies put in place by the banks were also matched against what the customers identify to be effective and all these had greatly impacted on the performance of deposit money banks in the area of ROI, ROA and ROE. The banks management is therefore encourage pursuing customer relationship management programmes with rigour so that they can survive in the present competitive business environment.

VI Recommendation

Based on the research findings, the following recommendations are made:

There is the need to ensure that the timeliness in service delivery is improved upon to enable the banks improve their performances. Considering the influx of people in Nigeria, and heavy traffic of bank service discharge, there is

locations as a strategy of diversifying investment opportunities. This will enable the banks handle the timeliness in service delivery efficiently.

There is need for them to concentrate more on customer focused services, complaint management, friendliness of employees, competitive charges on services, information [13] Fiordelisi, F (2007). Shareholder value efficiency in and communication technology, high quality service, security of money, availability of credit and other CRM variables of the study as findings have shown that commitment to the use of these variables lead to customer [14] F. Robert Dwyer and John F. Tanner Jr. (1999), Business satisfaction, customer retention, increase in profit and increase in number of customers for the deposit money banks in Nigeria.

REFERENCES

- Customer Relationship, How Important is the Personal Torch? http://ww.Ipos.Comloyalty/sites/ipsos.com.
- [2] Asika, N. (2006). Research Methodology in the [18] Hughes, J.P., Lang, W., Mester, L.J., Moon C.-G. and Behaviour Sciences. Lagos, Longman Publishers.
- [3] Babin Porhharel (2011). Customer Relationship Management: Related Theories , Challenges and Application in Banking Sector, Banking Journal, Vol., 1 Issue 1.
- [4] Baele, L., DeJonghe, O. and Vander Vennet, R. (August 2006). Does the stock market value Working Paper No. 2006/402, diversification?
- [5] Beckett-Camarata, E.J., Camarata, M.R., Barker, R.T., 1998, Integrating Internal and External Customer Relationships Through Relationship Management: A [21] Injazz, Karen, J. Perrien P. Filiatrault, & L. Ricard. strategic Response to Changing Global Environment, Journal of Business Research, 41, 71-81.
- [6] Bora Hosver (2007). Customer Relationship in Banking Sector. http://www.Seribd.Com.
- [7] Chen, I.J & Popivich, K. (2003). Understanding CRM: People, Process and Technology. Business Process Management Journal, 9 (5), 672-688.
- [8] Clark, J. (1996). Economic cost, scale efficiency and competitive viability in banking, Journal of Money, [24] Jones, T., & Taylor, S.F. (2007). The Nature and *Credit, and Banking* 28, 342-364.
- [9] Doney, Patricia M. & Joseph P. Cannon. (1997). An Examination of the Nature of Trust in Buyer-Seller Relationship". Journal of Marketing, 61 (April), 35-51.
- [10] Ellen Gifford (2002. CRM Principles, Strategy, Solution, Applications, System, Software, and Ideas for effective [26] Kim, J. et al. (2003). A Model for Evaluating the Relationship Management. htt//www.Businessballs.com>home>Business/Selling.

- the need to extend more branches to clustered areas and [11] Evanoff, D.D. (1998). Assessing the impact of regulation on bank cost efficiency, Economic Perspectives, Federal Reserve Bank of Chicago, 22, 21-32.
 - [12] Evanoff, D.D., Israilevich, P.R., and Merris, R.C. (1991). Relative price efficiency, technical change, and scale economies for large commercial banks, Journal of Regulatory Economics, 2, 281-298.
 - European banking, Journal of Banking and Finance 31, 2151-2171.
 - Marketing: Connecting Strategy, Relationships, and Learning, USA: Irwing/McGraw-Hall.
 - [15] Gujarati, D. & Porter, D. (2009). Basic Econometrics, 5th Edition. New York: McGraw-Hill.
 - [16] Habib, M.A. and Ljungqvist, A. (2005). Firm value and managerial incentives: a stochastic frontier approach, Journal of Business 78, 2053-2093.
- [1] Alex Bollen and Clair Emes (2008). Understanding [17] Hughes, J.P., Lang, W., Mester, L.J. and Moon C.-G. (1996). Efficient banking under interstate branching, Journal of Money, Credit, and Banking 28, 1045-1071.
 - Pagano, M. (2001). Do bankers sacrifice value to build empires? Managerial incentives, Industry Consolidation, and Financial Performance, Journal of Banking and Finance 27, 417-447.
 - [19] Hughes, J.P., Lang, W., Mester, L.J. and Moon C.-G. (2000). Recovering risky technologies using the almost ideal demand system: an application to U.S. banking, Journal of Financial Services Research 18, 5-27.
 - Department of Financial Economics, Ghent University. [20] Hughes, J.P., Lang, W., Mester, L.J. and Moon C.-G. (1999). The dollars and sense of bank consolidation, Journal of Banking and Finance 23, 291-324.
 - (2004). Relationship Marketing and Commercial Banking: A Critical Analysis . International of Bank Marketing, 10,25-29.
 - [22] International Institute of Sustained Dialogue (2004). The concept of Relationship. http://www.sustained dialogue com.
 - [23] John Egan (2001). Relationship Marketing-Exploring Relational Strategies in Marketing Prentice Hall.
 - Dimensionality of Service s Loyalty: How Many Dimensions? Journal of Services Marketing, 27 (1), 36-
 - [25] Kanji, G.K. (1998). Measurement of Business Excellence. Total Quality Management, 9, 633-643.
 - Effectiveness of CRM using the Balanced Scorecard. Journal of Interactive Marketing, 17 (2), 5-19.

- [27] Laith Alrubaiee & Nahla Al-Nazer (2010). Investigate the Impact of Relationship Marketing Orientation on Customer Loyalty: The Customer's Perspective.
- [28] Ling R. & Yen D. (2001). Customer Relationship Management: An Analysis Framework Implementation Strategies . Journal of Computer Information Systems, (Spring).
- [29] McAllister, P.H. and McManus, D. (1993). Resolving the scale efficiency puzzle in banking, Journal of Banking and Finance 17, 389-406.
- [30] Mester, L.J. (1997). Measuring efficiency at U.S. banks: accounting for heterogeneity is important, European Journal of Operational Research 98, 230-242.
- [31] Mester, L.J. (1993). Efficiency in the savings and loan industry, Journal of Banking and Finance, 17, 267-286.
- [32] Mester, L.J. (2008). Optimal industrial structure in banking, Chapter 5 in Handbook of Financial Intermediation and Banking, Boot, A. and Thakor, A. (eds.) Amsterdam: North-Holland/Elsevier, 133-162.
- [33] Mithas, S., Krishnan M.S. and Fornell C (2005): "Why Do Customer Relationship Management Applications Affect Customers Satisfaction?" Journal of Marketing, vol 6, no 4, pp 201-209.
- [34] Morgan R.M. & S.D. Hunt. (1994). The Commitment Trust Theory of Relationship Marketing. Journal of Marketing, 58 (3), 20-38.
- [35] Morgan. R.M. and Hunt, S.D. (1994): "The Commitment-Trust Theory of Relationship". Journal of Marketing, vol 58, no 3, pp 20-38
- [36] Mosad Zineldin, (1995) "Bank-company relationships: some empirical evidence", 2, pp.30-40
- [37] Payne A Frow P (2005): "A Strategies Framework for Customer Relationship Management", Journal of Marketing, Vol. 69, pp. 167-176.
- [38] Peppard, J., 200, Customer Relationship Management [44] Semih Onut, Ibrahim Erdem and Bora Hosver (2007). (CRM) in Financial Services, European Management Journal. Vol. 18, No, pp. 312-327.
- [39] Philip Kolter and Gary Armstrong (2008). Principles of Marketing (12th ed.), Upper Saddle River New Jersey: [45] Storbacka, K., Strandvik, T., and Gonroos, C. (1994): Pearson Education Inc.
- [40] Philip Kotler and Kevin Lane Keller 2006). Marketing Management (12th ed.), Upper Saddle River New Jersey, USA: Pearson Prentice Hall.
- [41] Ruth, N. Bolton and Crina O. Tarasi (2006). managing Customer http://www.ruthnbolton.comiPublication.
- [42] Ryals, L., & Knox, S., 2001, Cross-Functional Issues in the Implementation of Relationship Marketing Through Customer Relationship European management Journal, Vol. 19, No. pp. 534-542.



- International Journal of Bank Marketing, Vol. 13 Issue [43] Schindler, D.R. and Cooper, P.S. (2001): Business Research Methods; C., H. (2003). Customer-oriented selling: a review, extension, and directions for future research. Journal of Personal Selling and Sales Management, 23, 2, 151-171.
 - Customer Relationship Management in Banking Sector and A Model Design for Banking ,performance Enhancement. http://www.ipdfsearchengine.comlpdfl
 - "Managing Customer Relationship for Profit: The dynamics of Relationship Quality: International Journal of Service Industry Management; vol 5, no 5, pp 21-38.
 - [46] Tim Berry (2010). Customer Relationship Management. http://www. Mplans com/customerrelation.
 - Relationship. [47] Venkatraman, N. and Vasudevan Ramanujam (1986), "Measurement of Business Performance in Strategy Research: A Comparison of Approaches", Academic of Management Review, 11 (4), 801-814.
 - Management, [48] Walpole, R.E. (1974). Introduction to Statistics, 2nd Edition, New York: Macmillan Publishing Co.

[49] Webster, A.L. (1998). Applied statistics for Business and Economics: An Essential Version (3rd edition). New York: McGraw-Hill.

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