1	2 <sup>ND</sup> Revision Original Research Article
2	DETERMINANTS OF STOCK MARKET DEVELOPMENT IN NIGERIA: A
3	COINTEGRATION APPROACH
4	
5	ABSTRACT
6	This study examined the determinants of stock market development for the period of 1977-
7	2010. The study further investigated the long run and short run relationship between the
8	variables, using ex-post facto research design and the utilization of Johansen Co-integration and
9	Error Correction Model (ECM) approach. The empirical result indicates that market
10	capitalization, credit to private sector and exchange rates are all important determinants of
11	stock market development both in the long run and short run in Nigeria as these variables have
12	positive effect and thus stimulate economic growth in Nigeria while inflation and saving rate
13	had negative impact on stock market development in Nigeria. These results as they stand have
14	some policy implications and it therefore follows that to achieve accelerated stock market
15	development and economic growth in Nigeria, monetary authorities should effectively
16	moderate and control the inflation and savings rate so as to sustain macroeconomic stability.
17	This study therefore recommended amongst others that policy makers should be concerned
18	with stock market liquidity, given that market capitalization is a strong indicator of stock market
19	development in Nigeria.
20	Keywords: Market capitalization, Stock Market Development, Economic growth, Exchange
21	rate, Inflation rate, Savings rate, Private sector credit.

INTRODUCTION

#### 24 **1.1 Background of the study**

The determinants of Stock Market Development have drawn the attention of many scholars and researchers in recent times. Studies have revealed that a well developed and functioning stock market can boost economic growth by enhancing faster capital accumulation and allowing for a better resource allocation in developing countries. Thus, it is the general belief amongst scholars that stock markets play a pivotal role in the growth and development of an economy (Misati 2007; Levine and Zervos, 1998; McKinnon, 1973).

32 Currently, Nigerian Stock Exchange (NSE) reports indicated some mixed developments.

According to CBN (2010), the aggregate volume of traded securities declined by 9.3 percent, while the value increased by 16.3 percent. CBN (2010) also reported that aggregate market capitalization of the 264 listed securities rose by 41.0 percent to close at 9.9 trillion naira compared with 7.0 trillion naira recorded in 2009. The Nigeria capital market experienced a bullish trend when it started the year 2008 at 58,580 with market capitalization of N10,284 trillion and went to achieve its highest value ever of N66,371 on March 5, 2008, with market capitalization of about N12,640 trillion (Aluko, 2008).

The Nigerian Stock Exchange dates back to 1960 when the Lagos Stock Exchange was incorporated on September, 15, 1960 and commenced operations on June 15, 1961 as a private self-regulatory organization that supervises the operations of the formal capital market. The Lagos Stock Exchange was transformed into Nigerian Stock Exchange (NSE) in December, 1977.

The exchange has witnessed some tremendous growth and development since inception, particularly, following the deregulation of the economy in 1986. Nzotta, (2004) noted that the Nigerian Stock Market has grown remarkably since inception in 1961. The growth according to him has been very remarkable since the beginning of the reforms in 1986. The securities listed consisting of government stocks/bonds, industrial bond/debentures, common stock and preference stock increased in 2002 (NSE, 2006).

However, Nzotta (2004), opined that the depth and breadth of the market, the liquidity
 and efficiency is still low relative to those of other emerging markets.

In Nigeria, the Stock Market is classified into two broad markets namely, the primary 53 and the secondary markets. The primary market is essentially the markets for new 54 issues. This is the market where shares coming to the public for the very first time are 55 traded. This market is regarded as a platform where public companies and government 56 57 can raise cheap funds for investment and development purposes. Quoted companies raise fresh funds from this market. Both security and exchange commission and the 58 Nigerian Stock Exchange regulate the activities of the market (NSE, 2006). On the other 59 hand, the secondary market is the market where existing securities are bought are sold. 60 61 Okafor (1983) pointed out that the secondary market is a re-sale market and that securities exchanged therein do not share the same image of inferiority which attaches 62 63 to assets sold in the second-hand markets.

In view of the above one would be tempted to ask question what determines Stock 64 market development. The determinant of stock market development varies from 65 country to country. In some countries, the size, adequate facilities, adequate flow of 66 funds/stock market liquidity, values of shares traded, volume of shares traded, turnover, 67 GDP per capita, broad money, market capitalization, level and Banking sector 68 development are key Macroeconomic indicators or Determinants of Stock market 69 development. Laws and their enforcement are critical in determining the rights of 70 security holder and the functioning of financial system (John, Ojong and Akpan, 2007; 71 Rahman and Salahuddin, 2010). 72

The broad objective of the study is to examine whether market capitalization, credit to private sector, inflation rate, exchange rate, and savings rate are determinants of stock market development in Nigeria. The rest of the paper is structured as follows: section two review of existing literature; section three provides research methodology; section four describes the empirical data and results; and section five presents the concluding remarks and recommendations.

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#### LITERATURE REVIEW

#### 82 2.1 Empirical Literature Review

The Determinants of Stock Market development has drawn the attention of many scholars in recent times. Herger, Hodler and Lobsiger, (2007) examined a sample of high and upper middle income countries for the period 1990s, using OLS and SLS, and found that institutions constraining the political elite from expropriating financiers exhibit a strong positive effect on the size of capital markets.

Garcia and Liu (1999) studied the macroeconomic determinants of stock market development during the period 1980 to 1995 using pooled data from 15 industrial and developing countries and found that real income, saving rate, financial intermediary development and stock market liquidity are important determinants of stock market capitalization. They observed that macroeconomic volatility does not prove significant, and that stock market development and financial intermediary development are complements and not substitutes.

95 Yartey (2008) examined the institutional and macroeconomic determinants of stock market development using a panel data of 42 emerging economics for the period of 96 97 1990 to 2004, and found that income level, gross domestic investment banking sector development, private capital flows and stock market liquidity are important determinants 98 of stock market development in emerging market countries. The results further indicate 99 that political risk, law and order and bureaucratic quality are important determinants of 100 101 stock market development because according to him they have the viability of external finance. He stressed that the result suggests that the resolution of political risk can be 102 important factor in the development of emerging markets. 103

Also, Kemboi and Tarus (2012) studied the macroeconomic determinants of stock market development in emerging markets, using quarterly secondary data for the period 2000 to 2009 by applying Johansen-Juselius Co-integration analysis. The results indicates that macro economic factors such as income level, banking sector development and stock market liquidity are all important determinants of the

development of Nairobi stock market. They also found that macro economic stability isnot significant predictor of the development of the securities market.

Similarly, Nacuer, Omran and Ghazouani (2007) examine the determinants of stock market development in the Middle Eastern and North African region using unbalanced panel data. The study found that savings rate, financial intermediary, stock market liquidity and the stabilization variables are the important determinants of stock market development and that financial intermediaries and stock markets are complements rather than substitutes in the growth process.

John, Ojong and Akpan (2010) studied the determinants of stock market development in Nigeria using and Error Correction Model (ECM) approach. The study found that stock market liquidity, savings rate, and one-period lagged stock market development were significant predictors of stock market development in Nigeria.

El-Wassal (2005) investigates the relationship between stock market growth and 121 122 economic growth, financial liberalization policies, foreign portfolio investment and country risk in 40 emerging economies for the period 1980 – 2000. He used 2 stages 123 least square combined with fixed effect techniques were employed and the results 124 suggest that economic growth, financial liberation policies and foreign portfolio 125 126 investments were the leading factors of the emerging stock market growth. He averred that this result seems to validate the demand following hypothesis, suggesting that 127 128 economic growth have indeed activated stock market in these countries and that the stock market development and expansion is a multifaceted process. Asongu (2010) in 129 130 his study used a panel of 8 countries from 1989 to 2008 and concluded that in policy making, not all aspect of financial intermediary should be prioritize for stock market 131 132 development.

Rahman and Salahuddin (2010) provided an empirical analysis of the relationship between economic growth and its determinants with special focus on stock market development in Pakistan. They used data for the period 1971 to 2006 by employing FMOLS and ARDL bounds in testing a long run relationship and ECM approach and found a positive relationship between efficient stock market and economic growth both in the short run and long run, while financial instability and inflation have negative effect
 and that human capital, foreign direct investment and stock market liquidity have
 positive effects on growth. The results according to them were consistent with the
 theoretical and empirical predictions.

Quartey and Gaddah (2007) investigated macro economic factors affecting stock market development in Ghana using Johansen's co-integration procedure for the period 144 1991 to 2004. Their study revealed that gross domestic savings positively affected stock market development, while Treasury bill rates have negative impact on the long run 146 development of Ghana Stock Exchange. However, contrary to expectation inflation rate 147 did not prove to be a significant factor in predicting the long run development of the 148 stock market in Ghana.

In their study Boyd, Levine and Smith (2001) analyze the effect of inflation on both bank 149 based liabilities for GDP, bank assets, to GDP, credit to private sector and to GDP and 150 stock market based value traded, market capitalization to GDP, turnovers, volatility 151 equity returns, development indicators for the financial sector, these result indicate that 152 there is a significant and negative relationship between inflation and both banking sector 153 development and stock market activity. El-Nader, and Al-Raimony, (2013) examines the 154 cause of stock market development in Jordon, using multivariate co-integration and 155 variance decomposition analysis and their finding suggest that all the variables, money 156 supply to GDP, total value traded relative to GDP, gross capital formation relative to 157 GDP, consumer price index (CPI) and credit to private sector relative to GDP were all 158 159 positive and have considerable influences on stock market development they observed 160 that, nominal gross domestic product and net remittances relative to GDP had a negative impact on stock market development. 161

This study is not aware of any extant study on the association between stock market development and economic growth in Nigeria using relatively recent data. Garcia and Liu (1999) used 1980 to 1995 data; Yartey (2008) used 1980 to 2004 data; El-Wassal (2005) used 1980 to 2000 data; and Quartey and Gaddah (2007) used 1991 to 2002 data. By implications results from prior studies may not reflect current developments in this area. It is in view of the above that this study attempts to bridge the research gap by

168	inves	tigatin	ng the actual relationship between stock market development and e	economic
169	<mark>grow</mark>	<mark>th in N</mark>	ligeria, using current data from 1977 to 2010.	
170				
171			METHODOLOGY	
172	3.1	Res	earch Methodology	
173 174 175	<mark>This</mark> techr Nige	<mark>study</mark> niques ria.	adopted <i>ex-post facto</i> research design, as a set of regression e were utilize to examine the determinants of stock market develo	stimation pment in
176				
177	3.2	Sou	irces of Data	
179 180 181	repoi 2010	rts/stat	tistical bulletin and the National Bureau of Statistics (NBS) from	1977 to
182	3.3	Mod	del Specification	
183 184 185	In an justif prode	attem y the u uction	npt to determine the determinants of Stock Market Development, a m relationship between these variables were adopted following Cobb function as specified below:	odel that Douglas
186	Q	=	<u>f(K, L).</u>	(1)
187	Q	=	Output of the economy	
188	K	=	Capital	
189	L	=	Labour	
190 191	<mark>In lin</mark> equa	<mark>e with</mark> tion (	the objective of this study, the baseline analytical model was deri 1) above. Thus, the analysis commenced with Augmented Dick	ved from ey-Fuller

192	(ADF) and Phillip	<mark>s Perro</mark> i	n (PP) unit root tests for the variables of interest as	well as
193	Johansen Co-inte	gration	regression model followed by Error Correction Model	(ECM).
194	The linear regress	<mark>ion moc</mark>	lel is therefore specified in the form as stated below:	
195	RGDP =	f(MC)	AP, PCR, INF, EXR, SAVR).	(2)
196	Thus, the linear fu	<mark>nction o</mark>	f equation (2) above can be specified explicitly as follow	<mark>vs:</mark>
197	$\mathbf{Y}_t = \mathbf{B}_0 + \mathbf{B}_1 \mathbf{X}_{1t} + \mathbf{B}_1 \mathbf{X}_{1t} + \mathbf{B}_2 \mathbf{X}_$	$B_2 X_{2t} + E_2$	$B_{3}X_{3t} + B_{4}X_{4t} + B_{5}X_{5t} + \mu_{t.}$	(3)
198	where,			
199	Y <sub>t</sub>	=	Dependent Variable (RGDP)	
200	$X_{1t}$	=	Market Capitalization (MCAP)	
201	$X_{2t}$	=	Credit to Private Sector (PCR)	
202	X <sub>3t</sub>	=	Inflation Rate (INF)	
203	$X_{4t}$	=	Exchange Rate (EXR)	
204	X <sub>5t</sub>	=	Savings Rate (SAVR)	
205	t	=	Annual Time Series Values	
206	<mark>B</mark> o	=	The Constant Term	
207	<mark>B₁- B₅</mark>	=	Regression Coefficient to be estimated	
208	$\mu_t$	=	The Error Term	
209	The above equation	on is hei	reby restated to carry their parameters as follows:	

210  $RGDP_{t} = B_{0} + B_{1}MCAP_{t} + B_{2}PCR_{t} + B_{3}INF_{t} + B_{4}EXR_{t} + B_{5}SAVR_{t} + \mu_{t}.$  (4)

211 **3.4 Techniques of Data Analysis** 

The study employed descriptive and analytical econometric methods to analyze the data.

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### **DESCRIPTION OF RESULTS**

216 4.1 Discussion of Empirical Results

### 4.1.1 Augmented Dickey-Fuller (ADF) and Phillips Perron (PP) Unit Root

218 **Tests** 

The study commenced with the analysis of testing the time series variables, as 219 220 often than not most time series data exhibit non stationary behavior as non 221 stationary data posses' series of problem leading to estimation of spurious 222 regression results. Thus, to guide against this phenomenon, this study explored ADF and Phillip Perron (PP) unit root test procedures to test the level of 223 integration whether the variables are stationary and are Co-integrated of order 224 one, i.e. whether they were integrated of the same order I (1) so as to completely 225 avoid the estimation of spurious regression. 226

Consequently, the results of the Unit root tests of the variables are presented intable 1 and 2 below.

229

### 230 Table 1: Augmented Dickey-Fuller (ADF) Unit Root Test Results

Series	ADFTest	5%Critical	10%Critical	Order of	Remark
	Statistic	Values	Values	Integration	
RGDP	-4.699936	-1.952910	-1.610011	1(1)	Stationary <mark>1<sup>st</sup> dif</mark>
MCAP	-5.472912	-1.952910	-1.610011	1(1)	Stationary <mark>1<sup>st</sup> dif</mark>
PCR	-2.074562	-1.952910	-1.610011	1(1)	Stationary <mark>1<sup>st</sup> dif</mark>
INF	-5.391709	-1.952910	-1.610011	1(1)	Stationary <mark>1<sup>st</sup> dif</mark>
EXR	-4.653098	-1.952910	-1.610011	1(1)	Stationary <mark>1<sup>st</sup> dif</mark>
SAVR	-5.693913	-1.952910	-1.610011	1(1)	Stationary <mark>1<sup>st</sup> dif</mark>

231 Source: Authors Computation Using Eview 7.1 version

233

## 234 Table 2: Phillips Perron (PP) Unit Root Test Results

Series	PPTest	5%Critical	10%Critical	Order of	Remark
	Statistic	Values	Values	Integration	
RGDP	-4.611134	-1.952910	-1.610011	1(1)	Stationary <mark>1<sup>st</sup> dif</mark>
MCAP	-5.472912	-1.952910	-1.610011	1(1)	Stationary <mark>1<sup>st</sup> dif</mark>
PCR	-2.906132	-1.952910	-1.610011	1(1)	Stationary <mark>1<sup>st</sup> dif</mark>
INF	-9.048519	-1.952910	-1.610011	1(1)	Stationary <mark>1<sup>st</sup> dif</mark>
EXR	-4.641229	-1.952910	-1.610011	1(1)	Stationary <mark>1<sup>st</sup> dif</mark>
SAVR	-5.733590	-1.952910	-1.610011	1(1)	Stationary <mark>1<sup>st</sup> dif</mark>

235 Source: Authors Computation Using Eview 7.1 version

The above test as shown in table 1 and 2 reveals that all the variables were integrated of same order' 1(1). In other words, the series are said to be all stationary at first difference as shown above.

Having determined the order of integration, we therefore proceed to perform the Johansen Co-integration Test to establish the long run effect of the variables and again the variables are integrated of same order i.e 1(1) which is a pre condition of the application of the Johansen Co-integration techniques.

Table 3 therefore, presents the Johansen Co-integration trace test.

# 244 **4.2** Johansen Co-integration Test

The co-integration test provides evidence on the existence of a long run relationship/association between the variables of interest such as RGDP, MCAP, PCR, INF, EXR, and SAVR respectively.

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# **Table 3: Johansen Co-integration Test**

- <sup>252</sup> Trend assumption: Linear determination trend series, RGDP, MCAP, PCR, INF,
- EXR, SAVR,. Unrestricted Co-integration Rank Test (Trace) Hypothesized

No. of CE(s)	Eigen Value	Trace	5%Critical	Prob**
		Statistic	Value	
None*	0.099754	299.8879	95.75366	0.0000
At most 1*	0.909135	169.7428	69.81889	0.0000
At most 2*	0.982191	100.1898	47.85613	0.0000
At most 3*	0.736836	55.98988	29.79707	0.0000
At most 4*	0.354901	17.27550	15.49471	0.0267
At most 5*	0.145600	4.563336	3.841466	0.0327

- Trace test indicates 6 co-integrating equ(s) at the 0.05 level
- \*Denotes rejection of the hypothesis at the 0.05 level
- <sup>256</sup> \*\* Mackinon-Hang-Michellis (1999) P-values

# 257 Source: Authors Computation Using Eview 7.1 version

258 The results indicates from table 3 that the Eigen value statistic shows existence

of six unique co-integrating equation between the variables; RGDP, MCAP, PCR,

INF, EXR and SAVR at 5 percent level. Thus, the null hypothesis of no co-

- integration is rejected at the 5 percent level of significance.
- In order to absolve the short term dynamics of the relationship among the series,
- an Error Correction Model (ECM) was employed.
- Table 4 presents the parsimonious ECM test results.

266

## **Table 4 Presents the Parsimonious ECM Test Results**

## 268 **Dependent Variables: D (RGDP)**

	Variables	Coefficient	STD Error	t-Statistic	Prob.
	С	18081.31	5836.008	3.098233	0.0051
	D (MCAP)	0.007831	0.002882	2.717590	0.0123
	D (PCR)	0.007263	0.006426	1.130349	0.2700
	D (INF)	-127.2588	268.7565	-0.473510	0.6403
	D (EXR)	431.6686	372.5070	1.158820	0.2584
	D (SAVR)	-1281.571	2364.808	-0.541934	0.5931
	ECM (-1)	-0.665627	0.116579	-5.709672	0.0000
	R-square	0.599889	Mean depende	ent var.	26310.42
	R-squared	0.599889	S.D dependent	t var.	37687.16
	Sum square	ed resid 1.65E+10	Akaike info criterion		23.75578
Mog likehood -344.4317			Durbin-Watsor	1.161193	

273 F – statistics 5.747348

274 Prob (F – statistics) 0.000899

## 275 Source: Authors Computation Using 7.1 version

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The result of ECM indicated that the coefficient of the ECM test as expected shows a negative sign and was statistically significant at 5 percent level of significance. The test also reveals that market capitalization was found to be positive and was significant statistically. Meaning that market capital capitalization as determinants of stock market development promotes or stimulates economic growth in Nigeria. Furthermore, the coefficient of the ECM is -0.665627, which means that the system corrects it to previous period disequilibrium at a speed of 66.56% annually. Meaning that the speed of adjustment to disequilibrium is 67% approximately, this further validates the long run equilibrium relationship between the variables.

288 Consequently, this study concludes that RGDP can be said to be positively 289 influenced by changes in MCAP, PCR and EXR except INF and SAVR that had a 290 negative effect. The findings of this study are consistent with the findings of 291 Quartey and Gaddah (2007) and Kemboi and Tarus (2012).

The  $R^2$  value indicates that 60% of the total variation in RGDP is well accounted for by explanatory variables, meaning that the regression model used in this study suggests a good fit. Furthermore, the result shows that  $R^2$  value of 0.599889 is less than the Durbin Watson statistic value of 1.16 which indicates that there is no evidence of first order serial correlation.

There is therefore ample justification for our research objectives: that market capitalization, credit to private sector, exchange rate, inflation rate and savings rate are all determinants of stock market development. While market capitalization, credit to private sector and exchange rate have positive influence, inflation rate and savings rate have a negative influence over stock market development.

Also, the implications of the research results to our hypotheses are as follows:

- (1) Hypothesis one. That market capitalization does not play any significant role
   in stock market development is rejected, as market capitalization has positive
   influence on stock market development.
- 307 (2) Hypothesis two. That credit to private sector does not play any significant role
   308 in stock market development is rejected, as credit to private sector has
   309 positive influence on stock market development.

(3) Hypothesis three. That inflation rate does not play any significant role in stock
 market development is rejected, as inflation rate has negative influence on
 stock market development.

(4) Hypothesis four. That exchange rate does not play any significant role in stock
 market development is rejected, as exchange rate has positive influence on
 stock market development.

(5) Hypothesis five. That savings rate does not play any significant role in stock
 market development is rejected, as saving rate has negative influence on
 stock market development.

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### 320

### CONCLUSION AND RECOMMENDATIONS

### 321 **5.1 Conclusion**

This study examined the determinants of stock market development in Nigeria for the period 1977 – 2010. The study investigated the long run and short run relationship between the variables by using Johansen Co-integration and Error Correction Model (ECM) approach.

The empirical result shows that market capitalization, credit to private sector, and exchange rate are all important determinants of Stock Market Development in Nigeria both in the short run and the long run as these variables have positive effect and thus stimulates economic growth in Nigeria. While inflation rate and savings rate have negative impact on Stock Market Development in Nigeria as these variables are found to be statistically insignificant in predicting the development of the Stock Market.

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### 335 5.2 Recommendations

Base on the findings of this study, the following recommendations are advanced:

i. That policymakers should be concerned with stock market liquidity, given
 that market capitalization is a strong indicator of stock market development
 as it is positive and statistically significant.

- ii. To promote stock market development in Nigeria, the banking sector
   should be encouraged to increase lending to the private sector of the
   economy so as to boast economic growth and development in the country.
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