Corporate Board Diversity and Firm Performance: Evidence from Nigeria

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Abstract

This paper investigates the impact of corporate board diversity on the financial performance of Nigerian quoted firms using a panel data of 122 quoted Nigerian firms. Aspects of board diversity studied comprise board nationality, board gender and board ethnicity. The Fixed Effect Generalised Least Square Regression is used to examine the impact of board diversity on firm performance for the period: 1991-2008. The results show that gender diversity was negatively linked with firm performance, while board nationality and board ethnicity were positive in predicting firm performance. One of the policy implications of our findings is that foreign board members provide a firm with better qualified candidates who have broader industry experience. Additionally, the presence of women on the board could be perceived by shareholders as a sign of impending significant change, thereby making them more confident in the company's success, which results in increase in share price.

Keywords: Corporate Governance, Board Diversity, Firm Performance.

JEL classification: M10, M12.

Introduction

Corporate governance research has been influenced mainly by agency theory. Agency theory is based on the fact that many corporate managers are not owners but agents of owners, contracted to manage the company on their behalf. Since they are not direct owners but managers, and thus have less personal wealth at stake, their natural pursuit of self-interest could result in their taking riskier or even dishonest actions, which could bring harm to the firm or its owners (Jensen and Meckling, 1976). Agency problem arises whenever managers have incentives to pursue their own interest (self-serving behaviour) at the expense of shareholders. Most studies on corporate governance focus on how to effectively monitor the agents (resolving the conflict) against narcissistic behaviour in order to protect shareholders' interest.

The basic premise is that diversity may lessen the tendency for boards to engage in groupthink-

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In the aftermath of corporate scandals in different countries such as Enron, WorldCom, Tyco International in the United States, HIH Insurance in Australia, Parmalat in Italy, a number of practitioners have called for board diversity. This is because there is a belief that a more diverse board will mitigate the effect of a homogenous board such as group-think - a phenomenon in which members' efforts to achieve consensus override their ability to realistically appraise alternative courses of action (Rhode and Packel, 2010). A fierce debate has emerged in corporate governance literature on the impact of board diversity on firm performance. Empirical evidence on the performance effect of board diversity is mixed. These studies used different measures of board diversity such as gender, nationality, colour and age, among others. These studies used data from developed economies like the United States of America and United Kingdom.

Most of the information on the relationship between firm performance and board diversity has emanated from theories and empirical analyses from developed economies. Unfortunately, there has been less empirical attention to this aspect of corporate governance research in Nigeria. Most of the studies have been theory based, and have primarily focused on board independence. This paper however, uses three measures of board diversity: foreign board members, board ethnicity and board gender to investigate the impact of board diversity on the financial performance of Nigerian firms. This study differs from others by the large number of firms and time frame covered. The inclusion of ethnic diversity in the study is novel, since there has not been any study along this line in Nigeria.

1. Review of Related Literature

Corporate governance research is influenced principally by agency theory. Agency theory is traced to the landmark work of Adam Smith (1776), *The Wealth of Nations*, where he suggested that "a manager with no direct ownership of a company would not make the same decisions, nor exercise the same care as would an owner of that company". This view is consistent with the agency theory popularized by Berle and Means (1932) and Jensen and Meckling (1976).

Agency theory argues that where there is separation of management and ownership, the manager seeks to act in self interest which is not always in the best interests of the owner and departs from those required to maximise the shareholder's returns. This agency problem can take two different forms such as adverse selection and moral hazard (Eisenhardt, 1989). Adverse selection can occur if the agent misrepresents his ability to perform the functions assigned and gets chosen as an agent. Moral hazard occurs if the chosen agent shirks the responsibilities or underperforms due to lack of sufficient dedication to the assigned duties. Such under-performance by an agent, even if acting in the best interest of the principal, will lead to a residual cost to the principal (Jensen and Meckling, 1976). These costs, resulting from sub-optimal performance by agents, are termed agency costs.

In order to mitigate the agency cost, a principal is expected to establish controls and reporting processes to regularly monitor agent's behaviour and performance outcomes (Fama, 1980; Jensen and Meckling, 1976). However, the degree of information asymmetry between principal and agent decides the effectiveness of the monitoring mechanism. This theory has stimulated several governance researches and the adoption of various corporate governance principles and codes in several countries. The common denominator of all these codes and principles is their emphasis on the importance of an independent board as a strategy for resolving this conflict of interest between principal and agents.

However, the introduction of the resource dependency theory has now widened the scope of governance research to include viewing the board as a strategic resource. Resource dependence theory provides a theoretical foundation for the role of the board of directors as a resource to the firm (Johnson et al., 1996). A key argument of the resource dependence theory is that organisations attempt to exert control over their environment by co-opting the resources needed to survive (Pfeffer and Salancik, 1978). Accordingly, boards are considered a link between the firm and the essential resources that a firm needs from the external environment for superior performance. Appointment of outsiders on the board helps in gaining access to resources critical to firm success (Johnson et al., 1996).

Resource dependency theorists extended the argument by positing that board members with different skills, different cultural background, different gender, among others, will act as strategic resource to the firm which may result to superior performance. This postulation laid the theoretical foundation for corporate governance research on board diversity.

Proponents of board diversity argue for the case of boardroom diversity along ethical and economic gains. The ethical view point regards board diversity as desirable, and argues that it is inequitable to exclude certain groups from corporate elites based on gender, race, religion among others (Carter et al., 2003). Additionally, board diversity is one means to empower constituencies of societies that have historically been excluded from positions of power. Additionally, board diversity is associated with the notion of equality of representation and ultimately, to the ideal of fair outcomes in the society (Brammer et al., 2007). In terms of the economic case for board diversity, it is argued that diversity promotes the functional ability of the board, particularly its ability to engage in complex problem solving, strategic decision making, and management monitoring (Forbes and Milliken, 1999).

Theoretically, there are a number of arguments in favour of diversity of board members. For example, Carter et al. (2003) identify five positive arguments for board diversity in a principal agent framework. They opine that a more diverse board is able to make decisions based on the evaluation of more alternatives compared to a more homogenous board. A diverse board is seen to have a better understanding of the market place of the firm, which increases innovation and creativity. Board diversity may also improve the image of the firm if the positive image has positive effects on customers' behaviour. Explicitly, advocates of board

diversity argue that a diverse board will result to improved financial and organisational performance, increased capacity to link with the global and domestic markets, expanded access to global and domestic talent pools, enhanced creativity and innovation, and strengthened social capital and cohesion (Kochen, et al. 2008).

However, there are arguments against board diversity. For example, if a diverse board produces more opinions and more critical evaluations, this may be time consuming and ineffective, especially if the firm is operating in a highly competitive environment where the ability to react quickly to market shocks is very important (Smith, Smith and Verner, 2005). Board diversity may also corrode group cohesion and lead to a board whose members are less cooperative and experience more emotional conflicts. Such board squabbles may create an entirely new version of agency problem, there by impeding firm performance. Smith, Smith and Verner (2005) equally argue that a culturally, ethnically or gender diverse board may experience more conflicts, and though they may ultimately make better quality decisions, it may not offset the negative effects of a slower decision-making process should the firm's market place demand quick responses.

On the empirical front, results from studies in different jurisdictions are mixed and inconclusive. Carter et al. (2007) examined the impact of board gender and ethnic diversity on the financial performance of all firms listed on the Fortune 500 over the period 1998-2002. Their results show support for the positive effect of diversity on financial performance measured by Tobin's Q. Smith, Smith and Verner, (2005) examined the relationship between gender diversity and firm performance using 2,500 largest Danish firms over the period 1993-2001, and find that the proportion of women on the board have positive effect on firm performance. Oxelheim and Randoy (2001) examined the effect of foreign board member diversity on firm value in Norway and Sweden, and the result indicates a significantly higher performance for firms with foreign board membership.

However, Marimuthu and Kolandaisamy (2009) examined the effect of demographic diversity on firm performance of listed companies in Malaysia. Their results suggest that board diversity is not relevant to firm performance. Randoy, Thomsen and Oxelheim (2006) analysed board diversity and its impacts on corporate performance of 500 largest companies from Denmark, Norway and Sweden and found find no significant diversity effect of gender, age, and nationality on stock market performance or on return on assets.

2. Hypotheses Development

This paper examines the impact of board diversity using measures of board heterogeneity based on foreign board membership, ethnic back ground and gender. The detailed expected performance results for each of the three diversity measures are shown below:

Board Nationality: This is the ratio of foreign board members to total board size. The potential advantages of foreign board membership have received serious attention in corporate governance studies globally (Marimuthu and

Kolandaisamy, 2009; Griscombe and Mattis, 2002; Kose and Senbei, 1998). First, with foreigners on the board, a large stock of qualified candidates would be available for the board (with broader industry experience). Second, because of their different backgrounds, foreign members can add valuable and diverse expertise which domestic members do not possess (Lee and Farh, 2004). Foreign board members can also help assure foreign minority investors that the company is managed professionally in their best interests (Oxelheim and Randoy, 2001). On the other hand, opponents to this view argue that foreign board members may be less informed about domestic affairs and therefore, less effective. Also, changing the board language to fit foreign members may be costly and add to adjustments problems (Hassan, Samian and Silong, 2006). This leads to the following hypothesis.

Hypothesis 1: Board nationality is negatively related to firm performance Board Ethnicity: Empirical research presents contradictory findings on the value of diversity. Watson, Kumar and Michealson (1993) report that a homogeneous board is better in the short-term, while a heterogeneous board is better in the long-term in achieving corporate goals. However, Pelled, Eisenhardt and Xin (1999) found that a heterogeneous board resulted in emotional conflict that ultimately harmed firm performance. Nigeria is made of about 250 ethnic groups and 500 languages. These ethnic groups are broadly classified into major and minor tribes. The major tribes are Igbo, Hausa and Yoruba. In the past, prominent political positions revolved around the three major tribes. A board that is ethnically diffused in Nigeria may have a strong board capital. Board capital has been positively associated with the provision of advice and counsel, the provision of firm legitimacy and reputation, the provision of channels of communication and the acquirement of resources elements outside the firm, and a source of effective performance. The researcher examined this variable using a dummy, which takes a value of 1 if the board is made up of people from different tribes and 0 if otherwise, and propose that.

Hypothesis 2: Ethnic diffused board is positively linked to firm performance

Board Gender: The ratio of the number of women to total board size is used as measure of board gender. Boards are traditionally composed of only male members. The presence of women on the board leads to gender diversity. It is generally accepted that female board members are more independent because they are not part of the 'old boys' network (Carter et al. 2003). Rynan and Haslam (2005) argue that women are more likely to be placed in positions of leadership in circumstances of downturn. The implication is that the presence of women on the board could be perceived by shareholders that significant change is on the way, thereby making them more confident in the company's success, which results in increase in share price. Diversity in general is considered to improve organizational value and performance as it provides new insights and perspectives (Fondas and Sassalos, 2000; Carter et al., 2003; Latendre, 2004; Huse and Solberg, 2006) and provides for representation of different stakeholders for equity and fairness. This leads to the following hypothesis:

Hypothesis 3: Board gender is positively related to firm performance.

3. Data and Methodology

3.1 *Data*

The data is based on a sample 215 publicly quoted firms in the Nigerian Stock Exchange. Ninety three companies were dropped from the final observation due to non-availability of data on key variables. As a result, the final sample size comprised XXX firm-year observations of 122 firms for the period: 1991-2008. The data were handpicked from annual reports and statements of accounts of quoted companies in Nigeria. The annual reports and statements of accounts of companies were obtained from the corporate headquarters of the companies, the Corporate Affairs Commission, the Securities and Exchange Commission, and the Nigerian Stock Exchange.

3.2 Model Specification

Drawing from previous studies on corporate governance, this study applied the Generalised Least Square (GLS) Fixed-Effect and Random-Effect models to test the various hypotheses. The preference for Generalised Least Square regression over pooled Ordinary Least Square regression is due to the important assumptions of homoskedasticity and no serial correlation in Pooled Ordinary Least Square (Wooldridge, 2002). The Fixed-Effect and Random-Effect models allow the researcher to examine variations among cross-sectional units simultaneously with variations within individual units over time (Gaur and Gaur, 2006). It assumes that regression parameters do not change over time and do not differ between various cross-sectional units, enhancing the reliability of the coefficient estimates. The dependent variable is financial performance, independent variables are board gender, board nationality, board ethnicity, while the control variables are CEO duality, board firm age and firm size. The multiple regressions may be represented as follows:

$$Y = \alpha + \beta_1 X_1 + \beta_2 X_2 + \beta_3 X_3 + \beta_4 X_4 + \beta_n X_n + £$$
 (1)

To suit the study, equation 1 is modified thus;

Firm Performance =
$$\alpha + \beta_{gender} + \beta_{nationality} + \beta_{ethnicity} + \beta_{control\ variables} + £ (2)$$

The dependent variable is firm performance. Return on asset (profit before interest and tax divided by total asset) was used as a measure of firm performance. Independent variables are board gender (total number of female board members divided by total board size), board nationality (total number of foreign board members divided by total board size), board ethnicity (dummy variable that assigns 1 if board members are from different ethnic tribes, and 0 if otherwise), while the control variables are firm size (natural log of total assets), CEO duality (dummy variable that takes 1 if one person occupies the position of CEO and board chair and 0 if these two position are occupied by different persons), board skill (total number of board members with Ph.D divided by board size) and firm age (natural log of age from date of incorporation).

Therefore, equation (2) is modified as follows:

Firm performance =
$$\alpha + \beta_{gender} + \beta_{nationality} + \beta_{ethnicity} + \beta_{duality} + \beta_{skill} + logTA + logAge + £$$
 (3)

Where: α is the intercept of the regression line; β_{gender} is board gender; $\beta_{nationality}$ is board nationality; $\beta_{duality}$ is board duality; $\beta_{ethnicity}$ is board ethnicity; β_{skill} is board skill; logTA is natural logarithm of total assets; logAge is natural logarithm of firm age; and £ is the error term. Equation (2) will enter the model as follows:

$$LogPBIT-TA = \alpha + \beta(BG) + \beta(BN) + \beta(BE) + \beta(BD) + \beta(BSK) + logTA + logAge + f$$
(4)

Where: LogPBIT-TA is the natural logarithm of profit before interest and tax divided by total assets and is used as the proxy for firm performance; BG is board gender; BN is board nationality; BE is board ethnicity; BD is board duality; and BSK is board skill.

Most studies along this line assume that the exogenous variables have immediate impact on the endogenous variable. This assumption might introduce bias in the results, since the decision to restructure corporate board characteristics and its ultimate payoff in terms of return on asset employed may involve considerable lag period (Gujarati and Porter, 2009). To make the result of this study robust, we allowed for lagged effects of the dependent variable. The logical explanations for this approach are two folds. One, most studies use the Tobin's q, which implies that information on changes in corporate leadership immediately reflects on the share price of the affected firms. In the case of Nigeria with informationally opaque firms, this information might not have immediate impact on the market of the affected company shares. Second, this study used the accounting-based measure of firm performance reported at the end of the company's financial year. This shows that the impact of board size is not immediate, but lagged over a period (t-1, t-2,...t-n).

Results

4.1 Descriptive Statistics

Table 1 presents the descriptive analysis of the absolute values of the variables. Results based on the descriptive analysis show that the average board size of Nigerian firms is approximately 9 members (mean = 0.923). The average number of Ph.D holders on the corporate boards of Nigerian firms is 9% (mean = 0.0885) scaled by average board size. This result shows that in every 10 board members, only 1 is likely to possess Ph.D qualification. The results show that the average number of foreigners on Nigerian corporate boards are approximately 2 foreigners per board (mean = 0.17). The selected companies based on data availability would have influenced this result. For example, about 50% of the firms in the conglomerate, petroleum, food/beverages and tobacco and construction industries are foreign-owned.

Table 1 Descriptive Statistics . summarize LogPBIT_TA LogPBIT_TA1 LogBZ BSK BN BG BR BE BD LogTA LogAge

Variable	Obs	Mean	Std. Dev.	Min	Мах
LOGPBIT_TA LOGPBIT_TA1	1656 1655	-1.768976 -1.769072	1.322829 1.323223	-4.60517 -4.60517	5.363637 5.363637
LogBZ	2084	.9226296	.1344686	.48	1.34
BSK BN	2084 2084	.0885461 .1677303	.1300602 .1987292	0	1.4 .88
BG	2084	.0462908	.0808008	0	.43
BR	2084	.7476008	.4344933	0	1
BE	2084	.7691939	.4214498	0	1
BD	2085	.4446043	.4980055	0	2
LogTA	1868	5.607853	1.076507	1.52	9.09
LogAge	2041	1.458702	.2479898	0	2.37

Source: Computed from Data in appendixes 4-18 (Using Stata-Computa Analytical Package)

The average number of women board members is 4.6% scaled by average board size. This indicates that in every 22 board members, only 1 is a woman. Interestingly, our results show that 77% of firms in the observation have ethnically diffused boards, while about 33% of the boards are homogeneous in terms of ethnic diversity. This might not be separated from the ownership structure of the affected firms. Board duality is a dummy variable taking the value of 1 if the manager of the firm is also the chairman and 0 if otherwise. The results show that about 56% of the firms in the observations separate the position of CEO from the board chair, while 44% of the selected firms allow one person to function simultaneously as CEO and board chairman. An interesting issue arising from board duality is the fact that foreign-owned and large firms tend to separate these two positions, while small or young firms with indigenous ownership structure merge these two positions. Results based on descriptive statistics show that average performance of firms in the sample is not very effective. Considering the accounting measure of return on asset, it was found that the average return on assets is approximately -

177% for the 18-year period. This suggests that managers do not effectively manage the assets of the companies in terms of converting them into income. The -177% return on asset employed is unfavourable because the firms are earning negative returns on assets, which could account largely for the high rate of corporate failures in Nigeria.

4.2 Correlation Matrix

Table 2 presents the correlation results. The correlation between firm age and return on assets employed is weakly positive. Though the non-significant relationship may create the impression that these two characteristics are not important, the arising statistics tend to prove that the age of the firm has a positive relationship with the profitability of the firm. This confirms the earlier assertions of Berger and Udell (1998), Gregory, Rutherford, Oswald and Gardiner (2005) and Boone et al. (2007) that newer firms are expected to have smaller earnings than older ones because they have less experience in the market, are still building their market position, and normally have a higher cost structure. The correlation result also justifies the inclusion of firm age as one of the control variables.

Table 2 Correlation Matrix

Variables		ROA	Board Size	Board Skill	Board Nationality	Board Gender	Board Ethnicity	Board Duality	Firm Size	Firm Age
ROA	Pearson Correlation Sig. (2-tailed)	1								
Board Size	Pearson Correlation Sig. (2-tailed)	0.0035 0.8761	1							
Board Skill	Pearson Correlation Sig. (2-tailed)	-0.0167 0.458	-0.064* 0.003	1						
Board Nationality	Pearson Correlation Sig. (2-tailed)	0.009 0.699	0.102* 0.000	-0.067* 0.010	1					
Board Gender	Pearson Correlation Sig. (2-tailed)	0.015 0.500	0.099* 0.000	0.054* 0.013	-0.080* 0.000	1				
Board Ethnicity	Pearson Correlation Sig. (2-tailed)	0.001 0.791	0.057*	0.085*	0.066* 0.002	0.032 0.148	1			
Board Duality	Pearson Correlation Sig. (2-tailed)	0.009 0.706	-0.003 0.878	0.070* 0.001	-0.066* 0.002	0.110* 0.000	0.069* 0.002	1		
Firm Size	Pearson Correlation Sig. (2-tailed)	0.041 0.077	0.189* 0.000	-0.058* 0.011	0.067* 0.003	-0.034 0.133	0.125* 0.000	0.004 0.862	1	
Firm Age	Pearson Correlation Sig. (2-tailed)	0.223 0.327	0.135* 0.000	-0.149* 0.000	0.109* 0.000	0.044* 0.045	0.097* 0.000	0.027 0.232	0.126 0.000	1

^{*}correlation is significant at the 0.05 level (2-tailed).

Source: Computed from Data in appendixes 4-18 (Using Stata-Computa Analytical Package)

The correlation between firm size and the proxies of board size, board nationality and board ethnicity is positive and significant. This finding validates the a priori position that governance structures are substitutable and the firms can choose appropriate governance options based on what is right for them. For example, as the complexity of the firm increases, board size may increase due to need for advice and environment monitoring (Pfeffer and Salancik, 1978; Zahra and Pearce, 1989). In that case, CEO duality may be dropped as a trade-off in

favour of director/insider ownership to ensure firm performance through alignment of interests between shareholders and directors. Obviously, these changes in the firm size are likely to affect different characteristics of the board. Hence, the result justifies the inclusion of firm size as one of the control variables.

The 36 results of inter-correlation recorded between the pairs of the explanatory variables shows that the correlation between board size and board duality is negative and non-significant. This validates the theoretical standpoint of agency theory which posits that board size has effect on CEO duality. As the board size increases, representation of outsiders also increases (Lehn, Patro and Zhao, 2004). This implies an increase in the board independence along with a simultaneous decrease in CEO's influence (Hermalin and Weisbach, 1998). Therefore, a larger board helps in effective oversight of management. To facilitate improved monitoring role of the board to mitigate the agency costs, positions of Chair and CEO are separated. An independent Chair is likely to be more effective if he/she has the backing of a larger number of board members. Thus, as the board size increases, firms with absence of CEO duality will perform better and those with presence of CEO duality will perform worse.

The correlation between board size and board gender is positive and significant. This validates our earlier findings in the descriptive statistics that women's representation on corporate board in Nigeria increase with board size. It implies that women do not replace men on boards, rather, they get more representation as the board size increases, indicating a corresponding increase in both board size and women on boards.

Ethnic diffused board requires representation from different segments of the society and is found to be positively and significantly associated with board size. As the firm increases in complexity, the board size also increases (Boone et al., 2007). The more the representation, the larger will be the size of the board. This result implies that ethnic diffused board is made possible by increasing the board size. When the board size is increased by increasing representation to outsiders, it is likely that there will be ethnic diversity of board members in general. Such diversity is considered a strategic resource and provides a link to different external resources. Most of the coefficients, as observed, whether positive or negative, significant or non-significant are weak. This indicates at first glance, that although likely cases of multicollinearity may exist, the degree of such may be too remote to affect the results of the regression estimates.

4.3 Test for Random and Fixed Effects Regression

In line with the earlier assumption that the unobserved or latent variables might influence the stochastic disturbances, Table 3 presented the random-effects results. The result shows that the F-test is 0.0000 which is less than 5%, which indicates that the random-effects model is consistent with the dataset in the study. Also, the two-tail p-value test shows that the unobserved or latent time invariant variables have significant influence on the dependent variable. However, the fraction of the variance due to unobserved time invariant variables is 0.

Table 3 Random Effects Results with Lagged Values of Return on Asset

. xtreg LogPB	IT_TA LOGPBIT_	_TAL1 LogBZ	BSK BN BG	BEthnio	BDual	LogTA I	LogAge, re
Random-effects Group variable		ion		Number Number	of obs of grou	ps =	1462 119
र-sq: within between overal				Obs per	group:	min = avg = max =	1 12.3 19
<pre>Random effects corr(u_i, X)</pre>	s u_i ~ Gaussi = 0 (ass			Wald ch Prob >		=	1299.20 0.0000
LOGPBIT_TA	Coef.	Std. Err.	z	P> z	[95%	Conf.	Interval]
_ogPBIT_TAL1 LogBZ BSK BN BR BEthnic BDual LogTA LogAgecons	.6191802 .0183879 .3166911 .5135037 6437491 .0052049 0124162 1983461 .2229717 0318851	.0198224 .1990953 .2830925 .130154 .329104 .0643061 .0527488 .0266657 .1137633 .2576729	31.24 0.09 1.12 3.95 -1.96 0.08 -0.24 -7.44 1.96 -0.12	0.000 0.926 0.263 0.000 0.050 0.935 0.814 0.000 0.050 0.902	.580 371 2 .258 -1.28 120 115 250 -3.56 536	8317 3816 4065 8781 8326 8019 6099 e-07	.6580314 .4086076 .8715423 .7686009 .0012828 .1312425 .0909694 1460823 .4459438 .4731445
sigma_u sigma_e rho	.86568849 0	(fraction	of varian	ce due t	to u_i)		

The fixed-effects results reported in Table 4 showed that the fixed effects model fitted properly with the dataset in the study. Also, the t-values which test the hypothesis that coefficient is different from zero shows that the unobserved variables have significant influence on the dependent variable. The fixed and random effects models showed contradicting results, which was resolved with the Hausman test. Table 5 reported the results of the Hausman test. The result of the Hausman fixed and Random effects tests showed some significant support for the fixed effects regression than random effects regression. The p-value was highly significant at 5 per cent level. The null hypothesis of an equality of fixed and random effects regression estimation was rejected. Thus, Generalised Least Square (GLS) fixed effects regression model captures both group and time effects.

Table 4 Fixed Effects Results with Lagged Values of Return on Asset

. xtreg LogPB	T_TA LOGPBIT_	TAL1 LogBZ	BSK BN BG	BEthnic	BDual LogTA	LogAge, fe
Fixed-effects Group variable		ression		Number o	of obs = of groups =	1702
R-sq: within betweer overall				Obs per	group: min = avg = max =	12.3
corr(u_i, Xb)	= -0.0357			F(9,1334 Prob >		
LogPBIT_TA	Coef.	Std. Err.	t	P> t	[95% Conf.	Interval]
LogPBIT_TAL1 LogBZ BSK BN BG BEthnic BDual LogTA LogAgecons	.2697012 .3780067 .334176 .2585586 .7656812 -0088037 .008738 -5663605 .9391022 .0159587	.0235786 .3278111 .392035 .1786876 .5141207 .0762716 .0567786 .0409697 .2623581 .4813508	11.44 1.15 0.85 1.45 1.49 -0.12 0.15 -13.82 3.58 0.03	0.000 0.249 0.394 0.148 0.137 0.908 0.878 0.000 0.000	.2234459 2650747 4348962 0919806 2428919 1584289 102647 6467325 .4244229 9283284	.3159564 1.021088 1.103248 .6090978 1.774254 .1408213 4859885 1.453782 .9602457
sigma_u sigma_e rho	.80207898 .86568849 .46191489	(fraction				- 0.0000
F test that a	11 u_1=0:	F(118, 1334	·) = 5	.18	Prob >	F = 0.0000

Source: Stata Analytical Software Computations.

Table 5 Hausman Fixed Random Effects Results with Lagged Values of Return on Asset

. hausman fixed random

	Coeffi	cients ——		
	(b) fixed	(B) random	(b-B) Difference	sqrt(diag(V_b-V_B)) S.E.
LogPBIT_TAL1	.2697012	.6191802	349479	.012768
LogBZ	.3780067	.0183879	.3596187	.2604249
BSK	.334176	.3166911	.0174849	.2712011
BN	.2585586	.5135037	2549451	.1224303
BG	.7656812	6437491	1.40943	.3949819
BEthnic	0088037	.0052049	0140086	.0410132
BDual	.008738	0124162	.0211542	.021009
LogTA	5663605	1983461	3680144	.031104
LogĂge	.9391022	.2229717	.7161305	.2364099

b = consistent under Ho and Ha; obtained from xtreg
B = inconsistent under Ha, efficient under Ho; obtained from xtreg

Test: Ho: difference in coefficients not systematic

 $chi2(9) = (b-B)'[(V_b-V_B)\wedge(-1)](b-B)$ = 861.45 Prob>chi2 = 0.0000

Source: Stata Analytical Software Computations.

4.4 The Generalised Least Square Fixed Effects with Lagged Values of Return on Assets Results

Table 6 presents the regression results. The regression coefficient of board nationality was positive and significant in predicting the financial performance of Nigerian firms. This implies that foreign board members offer Nigerian firms greater financial flexibility, which in turn provides firms the opportunity to cut down cost of capital by reducing cross-border information gaps and agency costs. The finding of the study is also consistent with the descriptive statistics results and affirms the resource dependency theory which argues that because of their different backgrounds, foreign board members can add valuable and diverse expertise to board effectiveness which domestic members do not possess.

The regression coefficient of board gender was negative and non-significant in predicting the financial performance of Nigerian quoted firms. This result could be influenced by the fact that most boards with female representatives are companies with strong family ties. This implies that women who are selected into the board of directors of Nigerian firms are not as qualified as their male colleagues, but because of their family firms.

The regression coefficient of board ethnicity was positive but nonsignificant in predicting the financial performance of Nigerian quoted firms. This finding is important, given the serious ethnic bias that exists among Nigerians. In a more lucid term, the result in line with the resource dependency theory addresses the potential for synergy between managers from different ethnic tribes in Nigeria. Specifically, board diversity along ethnic tribes might have national outlook, an understanding of the Nigerian market given the variants of cultures, boost access to critical resources, which suggests a positive financial performance. According to Carter et al (2003), a more diverse board could benefit from a greater understanding of its customers or other key stakeholders.

Table 6 Generalised Least Square with Lagged Values of Return on Assets

. regress LogPBIT_TA LogPBIT_TAL1 LogBZ BSK BN BG BEthnic BDual LogTA LogAge

Model Residual	SS 1304.65787 1458.10287 2762.76073	df 9 1452 1461	1.00	961985 9420308 0100666		Number of obs F(9, 1452) Prob > F R-squared Adj R-squared Root MSE	= 1462 = 144.36 = 0.0000 = 0.4722 = 0.4690 = 1.0021
LogPBIT_TA	Coef.	Std.	Err.	t	P> t	[95% Conf.	Interval]
LogPBIT_TAL1 LogBZ BSK BN BG BEthnic BDual LogTA LogAgecons	.6191802 .0183879 .3166911 .5135037 6437491 .0052049 0124162 1983461 .2229717 0318851	.0198 .1990 .2830 .130 .329 .0643 .0527 .0266 .1137	953 925 9154 9104 8061 7488 6657 7633	31.24 0.09 1.12 3.95 -1.96 0.08 -0.24 -7.44 1.96 -0.12	0.000 0.926 0.263 0.000 0.051 0.936 0.814 0.000 0.050 0.902	.5802965 3721573 2386229 .2581937 -1.289319 1209378 1158881 2506535 0001864 5373361	.6580639 .4089332 .8720052 .7688137 .0018209 .1313477 .0910557 1460387 .4461298 .4735659

5. Policy Implications

Companies in developing countries with weak corporate governance and unfavourable macroeconomic environment could mitigate adverse effects of these systemic problems by choosing those internal governance models that enhance the survival and financial performance of firms in such jurisdictions. For example, corporate governance laws in Nigeria dwell extensively on resolving the agency conflict between managers and shareholders. While it is generally accepted that in an environment where regulations are incapable of preventing managers and board members from appropriating earnings for selfish gains, the selfish interests of these individuals entrusted with corporate management and control can actually be directed to altruistic goals.

Given the weak corporate governance environment in Nigeria, companies can now look inwards on how to diversify their corporate boards in other to improve their financial performance. Specifically, firms in emerging markets that are considering breaking away from their domestic market may either get listed on an international stock exchange or incorporate one or more foreigners into their boards. The long-term value arising from the inclusion of a foreign board member seems to exceed that of a cross-listing on an international market. Hence, the inclusion of a foreign board member should be seen not only as a low-budget alternative for firms that regard cross-listing as too big a venture, but also as an important complement for firms where cross-listing already exists.

Firms operating in Nigeria need to rethink their strategies regarding ethnic diversity in the composition of corporate boards. The argument for the positive effect of board ethnic diversity on firm performance is as follows: an ethnically diverse board enhances the effectiveness of board actions, and thus increases the productivity and performance of the firm resulting in increased profitability and shareholder value. Some functions of the board such as facilitating access to resources (e.g. capital), building external relations, diffusing innovation and aiding in the formulation of strategy or other important firm decisions are enhanced if the board has a more ethnic diverse membership. The economic case does not argue that ethnic diverse directors are perfect substitutes for other board members; rather, ethnic diverse directors are individuals with unique characteristics that create additional value for shareholders.

Finally, the inclusion of women on corporate boards should be based on their capabilities and competencies rather than family ties. Corporate governance research has established that female board members bring a different kind of perspective into the board room. Where they are selected based on their corporate track record, they will prove to be invaluable assets to the affected firm, especially in Nigeria where a great gender disparity exists in most sectors of the economy. Such gender disparity may likely exacerbate the existing weak external corporate governance laws, thereby encouraging sub-optimal decision making by management.

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