#### RESEARCH ARTICLE



# The Moderating Effect of Ownership Structure in the Relationship between Corporate Governance and Value of Non-Financial Firms Listed at the Nairobi Securities Exchange

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## ABSTRACT

The ownership structure is a crucial aspect of corporate governance and firm value, understanding its implications allows companies to make informed decisions to enhance their value and governance practices. Therefore, this study empirically investigated if ownership structure influences the relationship between corporate governance and firm value. A composite index was developed to evaluate corporate governance, considering board independence, size, diversity, and audit committee independence, while Tobin's Q was employed to estimate non-financial stock exchange firms' value. Additionally, ownership structure was defined by three main categories: government ownership, managerial ownership, and foreign ownership. The study utilized a descriptive longitudinal research method to analyze secondary data, employing statistical measures like mean, median, standard deviation, and skewness and conducting a correlation test. Moreover, diagnostic tests were utilized to assess normality, multicollinearity, heteroskedasticity, stationarity, and autocorrelation, determining a random effects model as the most suitable. Correlation was also conducted using Pearson's coefficient (r) to measure the strength and direction of the linear relationship. The empirical results exhibited that ownership structure moderated the relationship between corporate governance and firm value.

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## 1. Introduction

Corporate governance (CG), based on agency theory, aims to enhance investor confidence through various control mechanisms, processes, policies, legal rules, customary practices, and institutional structures. The main goal is to ensure long-term success by balancing stakeholders' interests and promoting ethical, responsible, and sustainable behaviour (Dang et al., 2019). Over the past two decades, CG scandals like Enron, Royal Bank of Scotland, Parmalat, and China Aviation Oil have highlighted the need for robust governance structures to protect stakeholders and ensure sustainability (Letza, 2017). Countries with established CG systems attract higher investment and protect current owners' interests, emphasizing the need for robust internal governance and effective regulatory environments for competitiveness. Furthermore, investment attraction and long-term sustainability are crucial in today's competitive business environment (Farag & Mallin, 2018).

Ownership structure (OS) influences resource allocation, decision-making processes, and strategic direction of a company, ultimately impacting its overall value and influencing the firm's strategic direction (Alkurdi et al. 2021). Diversity in ownership stakes and inclusive board representation can enhance governance, reduce conflicts of interest, and facilitate strategic decisions that generate value for the firm. Balancing these diverse ownership interests is critical for reaping the benefits of improved corporate governance practices (Alves, 2012). OS averts profit manipulation, ensures accurate financial reporting, and discourages self-interested activities among large shareholders, promoting transparency (Lioui & Sharma, 2016). Phung and Mishra (2016) highlight various techniques for analyzing OS, including concentration, managerial, foreign, government, and institutional ownership. OS has been operationalized in various ways, including percentage shares of multiple owners, concentration, foreign and institutional ownership, and government, managerial, and foreign ownership. Thus, this study adopts the OS operationalization proposed by Phung and Mishra (2016), as it is essential for effective CG, incentive alignment, and maximizing firm value.

Firm value (FV) is a crucial financial measure that maximizes shareholder value and attracts stakeholders (Shuaibu et al., 2019). It is linked to ownership structure and corporate governance, and is calculated using appropriate methods and pricing models. FV includes a firm's existing and projected advantages, as well as prevailing and anticipated profits. Increasing a firm's market value, reflected in its share price, benefits shareholders (Ibrahim, 2017). Methods for evaluating FV include examining financial records and using metrics like Tobin's Q (Butt et al. 2023). This study utilized Tobin's Q for a thorough market value ratio assessment, a reliable indicator of a firm's asset value, enabling industry comparisons, predicting future investments, economic expansion, outperforming other accounting ratios, and resistant to potential distortions.

The empirical and theoretical literature suggests that CG practices enhance FV directly, with the OS moderating this relationship. While good governance is important, the composition of ownership stakes determines the extent to which governance mechanisms can positively impact value creation (Phung & Mishra, 2016). Aligned ownership and effective oversight by shareholders enhance the valueadding effects of robust governance, while misaligned or dispersed ownership can hinder its ability to drive higher firm value and performance. Thus, synchronizing sound CG with an appropriate ownership configuration is crucial for maximizing a FV proposition.

## 2. Research Problem

Researchers frequently discuss the validity of CG and OS in affecting an FV, with a key focus on understanding how these practices affect a firm's performance and overall value (Haque & Arun, 2016). Effective CG can enhance FV by aligning managers and shareholders' interests, reducing agency costs, and enhancing transparency, but its exact mechanisms and outcomes may vary depending on the situation (Maulidi, 2017). The relationship between CG, OS, and FV is complex, influenced by governance practices, legal framework, industry dynamics, and company size, affecting share distribution among investors and institutional stakeholders. The complexity is further compounded by methodological challenges in research, as different approaches can lead to different conclusions.

Maulidi (2017) highlighted several scandals, including the 1995 Barings Plc debacle in the UK, the 2001 Enron scandal in the US, the 2005 American Insurance Group scandal, the 2008 Bernie Madoff and Lehman Brothers Holdings Inc. scandals in the US, and the 2008 Satyam software company scandal in India. However, crisis can significantly reduce a firm's overall value and, in some cases, even result in a loss of value (Boubaker & Nguyen, 2014). The complex relationship between CG and FV is challenging to comprehend, and previous studies have been criticized for methodological flaws, including model selection, data composition, and sample selection, leading to mixed results. This study seeks to fill these gaps by examining how the OS influences the relationship between CG and FV in listed companies in Kenya. The research aims to understand the intricate interplay between ownership stakes, governance mechanisms, and value creation in the Kenyan context, providing a comprehensive understanding of FV. The study suggests that addressing methodological flaws and considering ownership's moderating effects could offer valuable insights into optimizing governance structures for Kenyan companies, potentially maximizing value.

#### 3. Research Objective

The objective of this study is to investigate the moderating role of ownership structure in the relationship between corporate governance and firm value of listed firms in Kenya.

### 4. Theoretical Underpinnings

Ownership structure significantly influences the principal-agent relationship within a firm, affecting CG and FV. Jensen and Meckling (1976) underscored the importance of ownership structure in mitigating agency problems and aligning managers and shareholders' interests. They proposed that concentrated, managerial, and other ownership structures could influence agency costs and the effectiveness of CG practices.

Davis et al. (1997) stewardship theory and agency theory emphasize the importance of ownership structure in the relationship between corporate governance and firm value. Stewardship theory views managers as trustworthy stewards, while agency theory suggests that OS that empowers and incentivizes managers can enhance the positive relationship between good CG and FV creation.

## 5. Empirical Literature

Previous studies have shown that ownership structure plays a moderating role in the relationship between corporate governance and firm value. Concentrated ownership or significant stake in the company can enhance governance practices, making it crucial to consider ownership structure when designing and implementing corporate governance practices. A study by Onguka et al. (2021) found a positive link between CG, OS, and FV, with a significant moderating effect of OS on FV. Aligning governance structures with effective managerial decision-making processes can improve firm performance. Additionally, Mwau et al. (2017) examined the impact of growth strategies on Kenyan insurance companies' performance, including

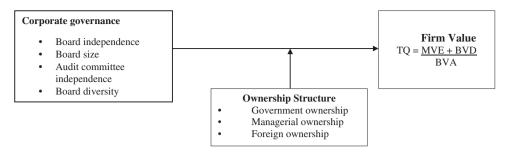


Fig. 1. Conceptual model.

diversification, market penetration, product development, and ownership structure. The study found that ownership structure moderated the relationship between growth strategies and insurance company performance, but the type of ownership, whether private or public, had no significant impact on the association between growth strategies and firm performance.

In Ghana, Sarpong-Danguah et al. (2022) examined the impact of board characteristics and OS on the financial performance of Ghanaian manufacturing firms. The study examined factors such as board independence, size, gender diversity, audit committee size, board salary, and OS. The findings showed a strong positive relationship between board attributes and financial performance despite gender diversity. Audit committee independence and size significantly influenced financial performance, while OS moderated the relationship between board size and financial performance. However, not all studies validated the findings regarding this relationship. For instance, Onguka et al. (2021) utilized the Baron and Kenny (1986) method to analyze the moderating effect of OS on the relationship between CG and FV, concluding that OS did not influence the relationship, suggesting sound CG practices often favor owners' interests.

#### 6. Conceptual Framework

The study investigates the moderating role of OS in the relationship between CG and FV, revealing that the interaction between OS and CG practices significantly impacts a firm's performance and value creation. Thus, the effectiveness of CG in influencing FV is influenced by OS characteristics. The conceptual model illustrates the schematic linkages between study variables as demonstrated in Fig. 1.

#### 7. Research Hypothesis

 $H_{01}$ : The moderating effect of ownership structure in the relationship between corporate governance and the value of non-financial firms listed at the NSE is not significant.

#### 8. Methodology

## 8.1. Data

The study investigates CG, OS, and FV in 30 nonfinancial companies from 2012 to 2021 using secondary data from 300 firm-year observations, accounting for 75%

of the dataset. It uses a longitudinal method and census survey on 30 NSE-listed firms, employing moderators to examine the relationship between variables. The study finds that OS significantly influences the relationship between CG practices and FV, influencing managerial behavior and shareholder interests. Higher managerial ownership can enhance monitoring and alignment of actions, potentially increasing FV. The presence of dominant shareholders can guide managers towards long-term value-maximizing strategies.

#### 8.2. Data Analysis

The study utilized Baron and Kenny (1986) Moderated Multiple Regression methodologies to analyze the impact of ownership structure on the CG-FV nexus. It used descriptive statistics and inferential statistics, with a multicollinearity test to determine correlation. The study used OLS panel regression with a one-lag right-hand strategy to address endogeneity and causality issues. It also used series panel OLS regression with control variables to evaluate the effect of CS on FP, accounting for unobserved timeinvariant firm characteristics. A general linear model was applied for estimation, with three sub-models generated to test sub-hypotheses.

$$FVit = \beta 0 + \beta 1 CGit + \beta 2OSit + \beta 3(CGit \times OSit) + \varepsilon it$$
 (1)

$$FVit = \beta 0 + \beta 1 CGit + \beta 2GOit + \beta 3(CGit \times GOit) + \varepsilon it$$
 (2)

$$FVit = \beta 0 + \beta 1 CGit + \beta 2MOit + \beta 3(CGit \times MOit) + \varepsilon it$$
(3)

$$FVit = \beta 0 + \beta 1 CGit + \beta 2FOit + \beta 3 (CGit \times FOit) + \varepsilon it$$
(4)

The regression model demonstrates the influence of the independent variable (CG) on the dependent variable (FV), with OS (GO, MO, FO) acting as a moderating variable. It includes constant terms, beta coefficients, and the interaction term CG \* OS, with an error term accounting for unexplained variance.

The findings displayed on Table I reveal diverse CG and OS among the listed non-financial firms studied. Board size (M = 0.818, SD = 0.2831, Minimum = 3, Maximum

TABLE I: DESCRIPTIVE STATISTICS

Variable	N	Mean (M)	Standard Deviation (SD)	Minimum	Maximum
Board independence	300	0.670	0.208	0.20	1.000
Board size	300	0.818	2.831	3.00	17.000
Audit committee Independence	300	0.853	0.266	0.00	1.000
Board diversity	300	0.170	0.168	0.00	0.667
GO	300	0.082	0.192	0.00	0.700
MO	300	0.060	0.154	0.00	0.710
FO	300	0.167	0.269	0.00	0.950
FV	300	3.072	0.853	0.90	5.700

= 17) exhibited nominal variation with a nearly symmetrical distribution, implying fairly consistent board sizes across firms, while audit committee independence (M = 0.853, SD = 0.266, Minimum = 0, Maximum = 1) varied marginally, with a negatively skewed and platykurtic distribution, suggesting most firms had high independence. Board diversity (M = 0.170, SD = 0.168, Minimum = 0, Maximum = 667) displayed wider variation and a symmetrical distribution, indicating significant differences across firms. Additionally, GO (M = 0.082, SD = 0.192, Minimum = 0, Maximum = 0.700) fluctuated extremely, with a moderately right-skewed and platykurtic distribution, implying highly variable levels and some extreme values. Further, MO (M = 0.060, SD = 0.154, Minimum = 0, Maximum = 0.710, CV = 2.577) exhibited higher discrepancy, a moderately right-skewed and highly peaked distribution, suggesting substantial variability with some extremely high values. Moreover, FO (M = 0.167, SD =0.269, Minimum = 0, Maximum = 0.950) demonstrated greater variation and a slightly right-skewed distribution, indicating varying levels across firms, with more on the lower end.

The longitudinal dataset underwent diagnostic tests to confirm regression assumptions and correct deviations. Breusch-Pagan and Hausman tests were used to select the best modeling approach, ensuring unbiased coefficient estimates and reliable statistical conclusions. Moreover, the Hausman specification test assessed model suitability using various regression models like pooled-ordinary least squares, fixed effects, or random effect models to estimate hypotheses. The study adopted the Kolmogorov-Smirnov (KS) test to assess the normality of a longitudinal

dataset. It predicted and tested the error term, confirming its normal distribution, thus confirming the assumption of normality. Furthermore, the study evaluated multicollinearity in regression analysis using variance inflation factor (VIF) and tolerance value (TV). VIF values below 10 and TV greater than 0.1 indicated no multicollinearity. Moderating variables like government, managerial, foreign, and corporate governance showed VIF values below 10 and tolerance values above 0.1, confirming the validity and reliability of the regression analysis.

In addition, the study used ANOVA to determine if paired variables showed consistent variation across all scores. It found a linear relationship between corporate governance (CG), ownership structure (OS), and firm value (FV). The p-value was greater than 0.05, indicating no significant deviations from linearity. This suggests that linear models can accurately represent the relationships between these variables within the study's scope. The study also utilized the Wooldridge test to evaluate the independence of observations, specifically focusing on the correlation of error terms over time. The null hypothesis suggested no serial correlation, indicating no systematic relationship between errors across observations. F-statistic, calculated as F(1,29) = 0.035, showed no significant serial correlation. This F-statistic is not significant at the 5% level (Prob > F = 0.853 > 0.05), indicating no evidence of correlated error terms over time and supporting the assumption of independent observations in the dataset. Finally, the Breusch-Pagan/Cook-Weisberg test was used to examine heteroscedasticity in the model, with the null hypothesis suggesting constant residual variance. The Chi-squared test yielded a p-value of 0.153, higher

TABLE II: ESTIMATION RESULTS OF CORPORATE GOVERNANCE, GOVERNMENT OWNERSHIP STRUCTURE AND FIRM VALUE

		Overall Mo	del Fit Statistics			
Model: Random effect (GLS) regression			Number of observations $= 300$			
Panel variable: ID (strongly balanced)			Number of groups			30
Time variable: TIME, 2012 to 2021			Obs. per group Minimum		Minimum	10
$\mathbb{R}^2$	Within	0.088			Average	10
	Between	0.384			Maximum	10
	Overall	0.256	Wald chi <sup>2</sup> (1)		1)	38.8
Correlation	(u-i, x)	0		Prob chi <sup>2</sup>		0
		Parameter e	stimates statistics	S		
FV	Coefficient	Std error	z-stat	Prob		
Constant	5.901	1.511	3.91	0		
CG	-2.21	0.546	-4.06	0		
GO	-30.729	8.498	-3.62	0		
CG * GO	14.038	3.062	4.58	0		

than the significance level of 0.05. The researchers concluded that no significant differences in residuals across the independent variable FV were observed, implying no heteroscedasticity ( $\chi^2$  (1) = 2.05, p > 0.05). Accordingly, the model assumes constant residual variance, which is not violated. A correlation test using Pearson's coefficient (r) statistics was conducted to measure the strength and direction of the linear relationship between two variables, aiding in understanding how changes in one variable relate to changes in another.

#### 9. ESTIMATION RESULTS AND DISCUSSIONS

To test for moderating influences of ownership on the relationship between corporate governance and firm value, the null hypothesis specified below was tested:

H<sub>01</sub>: Ownership structure does not significantly moderate the relationship between corporate governance and the value of non-financial firms listed at the Nairobi Securities

The random effect (GLS) moderation model applied for estimation is stated as follows:

$$FVit = \beta 0 + \beta 1CGit + \beta 2OSit + \beta 3CG * OSit + \varepsilon it$$
 (5)

where FV is Firm value; CG is corporate governance; OSis Ownership structure;  $\beta_0$  is Constant term;  $\beta_1$ ,  $\beta_2$ ,  $\beta_3$ 

is Beta coefficients; CG \* OS is Interaction term, which represents their combined effect on FV, while the error term ( $\varepsilon$ ) accounts for unexplained variance in the dependent variable.

The results from Table II demonstrate the moderating effect of government ownership (GO) on the relationship between CG and FV. The overall model was significant (Wald chi-square = 38.8, p < 0.05), indicating that CG, GO, and the interaction between CG and GO collectively predicted FV. The model explained 25.6% of the variance in FV (R-squared = 0.256), with the remaining 74.4%attributed to other variables. Both CG and GO had negative and significant effects on FV (CG:  $\beta = -2.21$ , z = -4.06, p < 0.05; GO:  $\beta = -30.729$ , z = -3.62, p < 0.05). The interaction term CG \* GO was positively significant ( $\beta$ = 14.038, z = 4.58, p < 0.05), indicating that the effect of CG on FV varied with different levels of GO, strengthening as GO levels increased. The study rejected hypothesis  $H_{01a}$ , concluding that GO positively and significantly moderated the relationship between CG and FV, highlighting the critical role of GO in influencing these dynamics.

The second null sub-hypothesis was tested, and the results are presented in Table III.

H<sub>01b</sub>: Managerial ownership structure does not significantly moderate the relationship between corporate governance and the value of non-financial firms listed at the Nairobi Securities Exchange.

TABLE III: ESTIMATION RESULTS OF CORPORATE GOVERNANCE, MANAGERIAL OWNERSHIP STRUCTURE

		Overall m	odel fit statistics			
Model: Random effect (GLS) regression			Number of observations = 300			
Panel variable: ID (strongly balanced)			Number of groups			30
Time variable: TIME, 2012 to 2021		Obs. per group Minimum		10		
$\mathbb{R}^2$	Within	0.064			Average	10
	Between	0.33			Maximum	10
	Overall	0.193	Wald chi <sup>2</sup> (1)		29.6	
Correlation	(u-i, x)	0		Prob chi <sup>2</sup>		0
		Parameter of	estimates statistics	S		
FV	Coefficient	Std error	z-stat	Prob		
Constant	5.921	1.52	3.89	0.033		
CG	-2.74	0.446	-6.143	0		
MO	-29.99	7.998	-3.74	0.039		
CG * MO	13.653	3.142	4.345	0.001		

TABLE IV: ESTIMATION RESULTS OF CORPORATE GOVERNANCE, FOREIGN OWNERSHIP STRUCTURE AND FIRM VALUE

		Overall m	odel fit statistics			
Model: Random effect (GLS) regression			Number of observations = 300			
Panel variable: ID (strongly balanced)			Number of groups			30
Time variable: TIME, 2012 to 2021		Obs. per group Minimum			10	
$\mathbb{R}^2$	Within	0.091			Average	10
	Between	0.304			Maximum	10
	Overall	0.299		Wald chi <sup>2</sup> (1)		37.9
Correlation	(u-i, x)	0		Prob chi <sup>2</sup>		0.04
		Parameter e	estimates statistics			
FV	Coefficient	Std. error	z-Stat	Prob.		
Constant	6.201	1.486	4.172	0.021		
CG	-6.47	0.981	-6.595	0		
FO	-45.029	12.108	-3.71	0.034		
CG * FO	17.721	5.602	3.163	0.042		

The model utilized for testing the second sub-hypothesis is as follows:

$$FVit = \beta 0 + \beta 1CGit + \beta 2MOit + \beta 3(CGit * MOit) + \varepsilon it$$
(6)

Table III examines the moderating effect of MO on the relationship between CG and FV. The Wald test chi-square for the overall model significance ( $\chi^2 = 29.6$ , p < 0.05) indicates that CG, MO, and the interaction between CG and MO collectively predicted FV. Approximately 19.3%  $(R^2 = 0.193)$  of the variability in FV was explained by CG, MO, and CGMO, while other factors accounted for the remaining 80.7%. Both CG ( $\beta = -2.74$ , z = -6.143, p < 0.05) and MO ( $\beta = -29.99$ , z = -3.74, p < 0.05) had significant negative effects on FV. The interaction coefficient CG \* MO was significantly positive ( $\beta = 13.653$ , z = 4.345, p < 0.05), indicating that the effect of CG on FV varied with different levels of MO. This suggests that the strength of the CG-FV relationship increased as MO levels increased. The study supported rejecting the third hypothesis ( $H_{01b}$ ), concluding that MO positively and significantly moderated the association between CG and FV. The conclusions of the test for the third null subhypothesis are presented in Table IV.

 $H_{01c}$ : Foreign ownership structure does not significantly moderate the relationship between corporate governance and the value of non-financial firms listed at the Nairobi Securities Exchange.

The model used to test the third sub-hypothesis is as indicated below:

$$FVit = \beta 0 + \beta 1 CGit + \beta 2FOit + \beta 3(CGit * FOit) + \varepsilon it$$
(7)

Table IV presents findings on the moderating influence of FO on the relationship between CG and FV. The Wald test chi-square value for the overall model significance ( $\chi^2$ = 37.9, p < 0.05) indicates that CG, FO, and the interaction between CG and FO collectively predicted FV. Approximately 29.9% ( $R^2 = 0.299$ ) of the variation in FV was explained by CG, FO, and CG \* FO, with the remaining 70.1% attributed to other factors. Both CG ( $\beta = -6.47$ , z = -6.595, p < 0.05) and FO ( $\beta = -45.029$ , z = -3.71, p < 0.05) had a substantial negative impact on FV. The positive and significant coefficient of the interaction term CGFO  $(\beta = 17.721, z = 3.163, p < 0.05)$  indicates that the effect of CG on FV varied with different levels of FO, suggesting that the strength of the CG-FV relationship increased with higher levels of FO. The study rejects hypothesis  $H_{01c}$ , confirming that FO positively and significantly moderated the connection between CG and FV.

## 10. CONCLUSIONS AND DISCUSSIONS

The study confirms that OS moderates the relationship between CG and FV, rejecting the null hypothesis. It aligns with previous research by Sarpong-Danquah et al. (2022), suggesting that aligning governance structures with efficient managerial decision-making enhances productivity and firm performance. However, the study differs from Onguka et al. (2021) in its significant moderating influence due to its focus on non-financial listed firms, variations in ownership concentration, and differing stakeholder interests in both financial and non-financial firms. The study used a correlation and descriptive research methodology to explore the relationships between variables. However, it has limitations in establishing cause-and-effect relationships. Observing correlations does not necessarily imply direct causation, as causality is multifaceted. The study cannot definitively establish causation due to its design, and other factors, like intervening or moderating variables, may influence the observed relationships. The study offers valuable insights but cannot establish causal relationships or fully explore the intricacies of interactions among variables.

#### CONFLICT OF INTEREST

The authors declare that they do not have any conflict of interest.

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