

LITERATURE REVIEW

Concept of CEO Duality

The term "duality" refers to a corporate leadership structure in which one person serves as both CEO and Chairman of the Board of Directors. (Krause *et al.*, 2014; Wang *et al.*, 2014; Terinte, (2019), CEO Duality and Firm Profitability as evidence from Emerging Europe has become an emerging issue of research in the current era following corporate scandals around the world (Gove & Junkunc, (2013). The terminology 'CEO duality' in the literature is diverse. The dual position (CEO and chairman is the same individual) is also referred to as combined CEO/Chairman (Krause *et al.*, 2014), CEO-chair duality (Rutledge *et al.*, 2016), unitary leadership structure (Guillet, *et al.*, 2013), joint CEO/chairman (Moscu, 2013), and CEO as chairman, among others.

The different arguments in favor of duality all agree that merging the CEO and Chairman positions improves the functioning of the board. The stewardship hypothesis, according to Arslan *et al.*, (2014), provides a complementary perspective by claiming that agents are good stewards of an organization's resources. Stewardship theorists argue that there is no inherent conflict of interest between agents and principals because, among other things, CEOs will not jeopardize their image and careers by pursuing interests that are incompatible with the interests of shareholders..

Duality proponents further believe that a combined role gives a combined command structure, a single focal point, and lowers the company's decision-making costs. A CEO-Chair might have more authority and speed in making and implementing strategic choices for the company, giving it a more stable appearance. As a result, choices made by a CEO-Chair on a major topic may be clearer, faster, more consistent, and more timely than judgments made by a CEO who must negotiate and confer with a board led by a different Chair. Furthermore, having only one person

serve as both CEO and Chair avoids public uncertainty about who is in command of the organization and explains who is responsible for its success and long-term viability. According to agency theorists, the separation of the CEO and Chairman's positions (Khan *et al.*, 2013) protects accountability but hindering the board's ability to supervise management opportunism because the CEO has a tendency to manipulate the board (Wang *et al.*, 2014). Supporters of the agency theory believed that separating the board's management tasks improves the board's performance by boosting the superiority and suitability of decision-making.

A nonexecutive board Chairperson can provide fresh information, self-determination, and insights to the board's process, as well as unique perspectives that improve the board's ability to deliberate and make strategic and essential business decisions in its management obligations. According to Yasser, & Al Mamun, (2015), the lack of desire and incentive to objectively evaluate and discipline the dual executive reduces the risk of entrenchment, which increases the risk of the CEO-Chair in both roles. The entrenchment of multiple positions, on the other hand, enhances the potential for this powerful CEO to use the firm to serve his own private interests rather than the general good of shareholders.

When the chairman of the board is also the CEO of the firm, all of the corporation's powers are concentrated in one person, and the chance of CEO authority being checked and balanced is essentially removed. The board of directors of such a corporation may not be able to function as an independent body, even though it is the board's aim. According to the agency hypothesis, separating the roles of CEO and chairman will reduce the opportunity for the CEO and inside directors to engage in self-motivated and financially costly actions. Nishanthan, *et al.*, (2014) recommended the separation of CEO and board chairman jobs; one person cannot effectively fulfill both roles because they each have their own domain.

Concept of Firm Performance

Firm performance is defined as a monetary measurement of the outcomes of a company's policies and operations. These outcomes are indicated by the company's gains from new ventures, used resources, increase in value, among others. According to Verreyne and Meyer (2008), scholars and government agencies alike are concerned about the relative productivity of different enterprises. The hunt for characteristics that may offer firms with competitiveness and so boost firm profitability is the driving force behind this type of research. Despite the importance of the construct and the attention it has received, defining and assessing performance for a specific industry has always been a research topic in recent years.

Performance varies as much between different competitive contexts as it does between different businesses. As a result, investigating single firms rather than the industry as the primary unit of analysis might assist scholars in gaining a more in-depth understanding of firm rivalry patterns and performance factors (Houthoofd, & Hendrickx, 2012). Firm performance refers to a company's actual output or results as compared to its intended outputs (or goals and objectives). Business productivity, according to Richard *et al.*, (2009), encompasses three distinct dimensions of a company's output: (a) financial output (profits, return on assets, and return on investment); (b) product market output (sales, market share); and (c) shareholder return (total shareholder return, economic value added). Specialists in many fields are concerned with structural productivity, including strategic planners, operations, finance, legal, and structural development.

Different firms use different methodologies to measure their performance depending on their structural goals. This metric can be determined using both monetary and non-monetary criteria (Bakar & Ahmad, 2010). Despite this, the majority of organizations choose monetary productivity indicators (Mohamad & Sidek, 2013). Return on assets (ROA) (Zahra, 2008), average annual occupancy rate, net profit after tax and return on investment (ROI)

(Tavitiyaman *et al.*, 2012) are the commonly used financial or accounting indicators by firms. Other popular indicators of performance include internal efficiency, development, shareholder fulfillment, marketplace stake and competitiveness (Bagorogoza & Waal, 2010). Money functions, on the other hand, are not the only indicators of productivity. In this study, it combines both financial and non-financial measurement in order to adapt to the changes of internal and external environments (Njeri, 2017).

Relationship between CEO duality and firm Performance.

Various authors have found different results on the relationship between CEO duality and firm performance. Pham & Pham, (2020). The impact of CEO duality on firm performance. The data is balanced and covers over the period 2012–2018 for 442 publicly listed firms in Vietnam. The findings indicated that CEO duality had a positive effect on firm performance in growth stage and had a negative effect on the mature stage of the firm's life-cycle. These results are supported by stewardship theory which argues that CEO duality may be good for firm performance in the growth stage due to the unity of presented command. In contrast, agency theory shows CEO duality is bad for firm performance in the maturing stage since it compromises the monitoring and controls the behavior of the CEO. Also, this study shows that there was a difference between state shareholders and director from outside of the company affecting the firm performance.

Duru *et al.*, (2016), the dynamic relationship between CEO duality and firm performance. The results indicated that CEO duality has statistically significant negative impacts on firm performance. Nazar, (2016), examined the impact of CEO duality on firm performance of listed non-financial firms in Sri Lanka. This study uses the ROA as proxy measure for form performance. This study employed a cross sectional ordinary least square analysis of 128 firms listed in Colombo Stock Exchange (CSE) for the financial year ending 2013. The results show that CEO duality is significantly negatively associated with ROA.

Yasser *et al.*, (2015), examined the relationship between CEO duality and the performance of

Pakistani public listed companies by using a sample of five years, from 2007 to 2011. The study tested the hypotheses with data obtained from the Karachi Stock Exchange 100 indexed firms, and employed the agency and stewardship theory perspectives. The results suggested that CEO duality is a less significant issue in corporate governance than suggested by many previous researchers and policy makers.

There is a significant relationship between CEO duality and firm performance.

RESEARCH METHODOLOGY

This study used explanatory research design. The study targeted 67 firms listed on the Nairobi Securities Exchange the study sampled all firms that had been listed on the Nairobi Security Exchange (NSE) during the 5 year study a sample of 45 firms was arrived at purposively after eliminating the number of firms delisted, suspended, terminated and those with missing data. The study got its data from secondary sources data was collected from the annual reports of firms listed on the Nairobi Security Exchange (NSE) from 2011 to 2016. The researcher selected 2011 to 2016 because during these 5 years the selected firms had been consistently trading in N.S.E.

The study conducted initial data analysis using descriptive statistics, correlation analysis and the fixed effects and random effects regression models. The descriptive statistics of the firms provides an overview of the background analysis of the sample used in this study as well as results on study variables. The regression model for the fixed and random effects were respectively stored and there after a Hausman test was carried out to establish the best model in predicting the changes in firm performance.

$$Y_{it} = \alpha_{it} + \beta_1 I_{it} + X_{1it} + \varepsilon_{it}$$

Y = the dependent variable (Firm Performance)

α = Constant

ε = Error term

β_1 = is the regression coefficient in Y by each X variable.

X1 = CEO duality

t = measure of time

i = number of firm observation

The above statistical tests were analyzed using Stata 13. All tests were two-tailed. Significant levels were measured at 95% confidence level with significant differences recorded at $p < 0.05$.

RESULTS

Descriptive Analysis

Table 1. Descriptive Statistics

Variable		Mean	Std. Dev.
EPS	Overall	1.376726	3.41748
	Within		3.18797
CEO duality	Overall	0.33489	0.29057
	Within		0.14528

The findings in Table 1. EPS, representing the measure of firm performance has a mean of 1.377 with an overall standard deviation of 3.417 and a within standard deviation of 3.188. CEO duality has a mean of 0.33489 with an overall standard deviation 0.291 and a within standard deviation of 0.145.

Correlation Analysis

Correlation analysis is usually carried to determine the degree to which two variables converge or diverge together depending on the case so as to establish the significance of the relationship. As such, a positive value of the correlation coefficient shows that the two variables move together in the same trend, and when there is a negative value, it shows that the variables move

in opposite direction or trend. Essentially, correlation analysis depicts to a given degree, the aspect of how one factor influences another although correlations do not imply a cause-effect relationship. Consequently, a correlation analysis of the independent factors and the dependent factor was carried out and the findings were summarized and presented in Table 2.

Correlation Analysis

Table 2. Correlation Analysis

	EPS	CEO duality
EPS	1	
CEO duality	0.2676*	1

* Correlation is significant at the 0.05 level (2-tailed).

The findings in Table 2 revealed that CEO duality has a positive and significant relationship with firm performance (EPS), 0.2676 meaning that there is 26.76% chance that firm performance will increase with increase in CEO duality

Fixed Effects Model

Fixed-Effects GLS Regression

Table 3 Fixed Effects regression model of CEO duality on firm performance

Group variable: firm			Number of obs = 225			
R-sq: within = 0.371			Number of groups = 7			
between = 0.3310			Obs per group: min = 8			
overall = 0.3784			avg = 10.1			
			max = 11			
			Wald chi2(6) = 313.6			
corr(u_i, X) = 0 (assumed)			Prob> chi2 = 0.000			
Firm performance	Coef.	Std. Err.	T	P>t	[95% Conf. Interval]	
Control variables						
CEO duality	-0.175	0.014	12.27	0.000	-0.147	-0.203
_cons	-12.789	2.014	-6.35	0.000	-16.737	-8.842
sigma_u	1.956					
sigma_e	3.263					
rho (fraction of variance due	0.157					

to u_i)

Dependent Variable: Firm Performance (EPS)

The results presented in Table 3 revealed that the overall model while controlling for firm size and firm age was found to be significant, with at least one estimated coefficient found to be different from 0, Wald $\chi^2(6) = 313.6$, $p\text{-value} = 0.000$. The findings showed that the estimated standard deviation of α_i (σ_u) is 1.956 which is greater than the standard deviation of ε_{it} (σ_e) = 3.263 suggesting that the individual-specific component of the error is more important than the idiosyncratic error. Furthermore, assessing the t-values revealed that the t-value for C.E.O duality, was greater than ± 1.96 (at 95% confidence) and this implied that firm size, C.E.O duality was different from 0. The findings showed that C.E.O duality (-0.175, $p = 0.000$), had significant effect on firm performance. In addition, this means that with each unit increase in C.E.O duality, there is -0.175 unit decreases in the firm performance

In addition from the findings, 15.7 % of the variance is due to differences across panels; 'rho' is known as the intra-class correlation.

Random Effects models

Table 4. Random Effects regression model of CEO duality on firm performance

R Square within	0.371	Number of obs = 225				
Wald Chi square	2.75	Number of groups = 7				
Prob> Chi square	0.0201	Obs per group: min = 8				
corr(u _i , X) = 0 (assumed)						
	Coef.	Std. Err.	T	P>Z	[95% Conf. Interval]	
predictors						
CEO duality	-0.9312	-0.0759	12.27	0.000	0.147	0.203
_cons	-12.789	2.014	-6.35	0.000	-16.737	-8.842
sigma_u	1.27083					
sigma_e	3.421					
Rho	0.121283					

Dependent Variable: Firm Performance (EPS)

The findings in Table 4 revealed that the overall model while controlling for firm age and firm size was found to be significant, with at least one estimated coefficient found to be different from 0, Wald χ^2 2.75 = 2.75, p-value = 0.0201 showing that the variation of EPS was dependent on the model. The findings showed that the estimated standard deviation of α_i (sigma-u) is 1.27083 which is smaller than the standard deviation of ε_{it} (sigma-e) which is 3.421 suggesting that the individual-specific component of the error is less important than the idiosyncratic error. Furthermore, assessing the t-values revealed that the t-values C.E.O duality, was greater than +/- 1.96 (at 95% confidence).

The findings showed that CEO duality (-0.9312, p=0.000) has significant effects on the firm performance. This implies that with each unit increase CEO duality, there is -0.9312 unit decreases in firm performance. In addition from the findings, 12.1% of the variance is due to differences across panels; 'rho' is known as the intra-class correlation.

Hausman Test

Table 5. Selecting between Fixed Effect Model and Random Effects Model

	---- Coefficients ----			sqrt(diag(V_b-V_B))
	(b) Fixed	(B) random	(b-B) Difference	S.E.
CEO				
duality	-0.2555767	-0.6484513	0.3928746	0.3497586
interaction	0.0569217	0.0699023	-0.0129806	0.0135702

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

$$\chi^2(5) = (b-B)'[(V_b-V_B)^{-1}](b-B) = 4.15$$

$$\text{Prob}>\chi^2 = 0.5284$$

From the findings in Table 5, the chi2 statistic was 4.15 which was not significant, p-value =0.5284 indicating that the test is in favor of the random effects model which had reduced standard errors compared to the fixed effects model. This means that the most appropriate model that can effectively explain firm performance (EPS) is the random effects model.

Hypothesis Testing

Hypothesis 1(Ho1) revealed that there was a significant effect of CEO duality on firm performance. Findings show that CEO duality had coefficients of estimate which was significant basing on (-0.9312, p=0.000), p<0.05). This implies that with each unit increase CEO duality, there is -0.9312 unit decreases in firm performance, implying that we accept the hypothesis and infer that CEO duality has a negative significant effect on firm performance.

CONCLUSION

The primary objective of this study was to examine effects of CEO duality on firm performance in Nairobi stock exchange. On the effect of CEO duality on firm performance, the firm has showed that CEO duality has a negative effect on firm performance. While there are supporters of CEO duality, agency theorists have pointed out that the separation between the roles of the CEO and Chairman safeguards accountability and impair the board's ability to monitor managerial resourcefulness because CEO has the propensity to control the board and will decrease the opportunity for the CEO and inside directors to exercise behaviors which are self-motivated and costly to the provision of finance (Principal). In addition, the separation of the roles enhances the board's effectiveness in management responsibilities by improving both the superiority and the suitability of decision making.

RECOMMENDATIONS

CEO duality has a significant effect on firm performance, there is need to harness the positives of CEO duality such as the increase in the level of effectiveness. This can be done while at the

same time ensuring that the dual role does not negatively impact on the growth of the firm. In addition, the operational policy of the firm is important in ensuring that there is no conflict of interest between the functions of the CEO and the chairman being vested in one individual. In addition, an effective operational policy of the firm will ensure that the dual role assumes an effective command structure while reducing the firm's cost in decision making. If this is not the case, there is need for the firms to put in measures that ensure that the roles are separated to enhance the effectiveness of the board.

RECOMMENDATIONS FOR FURTHER RESEARCH

The study primary focus of this study was to establish the effect of CEO duality on firm performance among listed firms in NSE. The findings have pointed to the existence of a negative relationship between CEO duality and firm performance. Thus, there is need to carry out further research while also including such time- invariant variables and partial time invariant variables. In addition, there is need to pool in more firms that are listed on the stock exchange in order to enrich the data while providing an even firmer platform for regulators and policy makers to develop even more sound policies and frameworks that would guide the growth of the firm and safeguard the shareholders against losses.

Furthermore, the data utilized in this research was secondary data obtained from the Nairobi Securities Exchange. Thus, more research can be carried out by utilizing a research design that would enable collection and utilization of primary data from the firms thereby developing a confirmatory mechanism to the findings of this study.

REFERENCES

Akisimire, R., Abaho, E., & Tweyongyere, M. (2020). CEO Duality and Financial Performance: Testing the Moderating Role of Firm Age: Evidence from a Developing Economy. *Journal of Economics and Behavioral Studies*, 12(3 (J)), 53-64.

- Apiti, C. U., Ugwoke, R. O., & Chiekezie, N. R. (2017). Intellectual capital management and organizational performance in selected food and beverage companies in Nigeria. *International Journal of advanced scientific research and management*, 2(1), 47-58.
- Arslan, M., Zaman, R., Malik, R. K., & Mehmood, A. (2014). Impact of CEO duality and audit committee on firm performance: A study of oil & gas listed firms of Pakistan. *Research Journal of Finance and Accounting*, 5(17), 151-156.
- Bagorogoza, J., & de Waal, A. (2010). The role of knowledge management in creating and sustaining high performance organisations: The case of financial institutions in Uganda. *World Journal of Entrepreneurship, Management and Sustainable Development*, 6(4), 307-324. Bakar & Ahmad, 2010
- Bakar, L. J. A., & Ahmad, H. (2010). Assessing the relationship between firm resources and product innovation performance: A resource-based view. *Business Process Management Journal*.
- Davis, J. H., Schoorman, F. D., & Donaldson, L. (1997). Toward a stewardship theory of management. *Academy of Management review*, 22(1), 20-47.
- Dimitras, A. I., Gaganis, C., & Pasiouras, F. (2018). Financial reporting standards' change and the efficiency measures of EU banks. *International Review of Financial Analysis*, 59, 223-233.
- Dogan, M., Elitas, B. L., Agca, V., & Ögel, S. (2013). The impact of CEO duality on firm performance: Evidence from Turkey. *International journal of business and social science*, 4(2).
- Duru, A., Iyengar, R. J., & Zampelli, E. M. (2016). The dynamic relationship between CEO duality and firm performance: The moderating role of board independence. *Journal of Business Research*, 69(10), 4269-4277.
- Fourati, H., & Affes, H. (2013). Intellectual Capital Investment, Stakeholders' Value, Firm Market Value and Financial Performance: The Case of Tunisia Stock Exchange. *Journal of Information & Knowledge Management*, 12(02), 1350010.
- Gill, A., & Mathur, N. (2011). Board size, CEO duality, and the value of Canadian manufacturing firms. *Journal of Applied Finance and Banking*, 1(3), 1.
- Gove, S., & Junkunc, M. (2013). Dummy constructs? Binomial categorical variables as representations of constructs: CEO duality through time. *Organizational research methods*, 16(1), 100-126.

- Guillet, B. D., Seo, K., Kucukusta, D., & Lee, S. (2013). CEO duality and firm performance in the US restaurant industry: Moderating role of restaurant type. *International Journal of Hospitality Management*, 33, 339-346.
- Hassanein, M., & Wahsh, R. (2012). CEO duality and bank performance: the consistent null. *Banks & bank systems*, (7, Iss. 1), 14-23.
- Houthoofd, N., & Hendrickx, J. (2012). Industry segment effects and firm effects on firm performance in single industry firms. In *A Focused Issue on Competence Perspectives on New Industry Dynamics*. Emerald Group Publishing Limited.
- Islam, M. M., Karim, M. A., & Habes, E. M. (2015). Relationship between quality certification and financial & non-financial performance of organizations. *The Journal of Developing Areas*, 49(6), 119-132.
- Khan, A., Muttakin, M. B., & Siddiqui, J. (2013). Corporate governance and corporate social responsibility disclosures: Evidence from an emerging economy. *Journal of business ethics*, 114(2), 207-223.
- Krause, R., Semadeni, M., & Cannella Jr, A. A. (2014). CEO duality: A review and research agenda. *Journal of Management*, 40(1), 256-286.
- Krause, R., Semadeni, M., & Cannella Jr, A. A. (2014). CEO duality: A review and research agenda. *Journal of Management*, 40(1), 256-286.
- Maina, F. G., & Sakwa, M. M. (2010). Understanding Financial distress among listed firms in Nairobi stock exchange: A quantitative approach using the z-score Multi-Discriminant Financial analysis model. Nairobi, KE: Jomo Kenyatta University of Agriculture and Technology.
- Manduku, D. O. (2017). *The influence of ethical leadership on the financial performance of listed firms in Kenya* (Doctoral dissertation, United States International University-Africa).
- Mohamad, M. R., & Sidek, S. (2013). Innovation and firm performance: evidence from Malaysian small and medium enterprises.
- Moscu, R. G. (2013). Does CEO duality really affect corporate performance?. *International journal of academic research in economics and management sciences*, 2(1), 156.
- Mutula, B. M. (2018). *The Effect of Working Capital Management on Financial Performance of Small and Medium Enterprises in Nairobi City County* (Doctoral dissertation, university of nairobi).

- Muturi, W., & Omondi, M. M. (2013). Factors affecting the financial performance of listed companies at the Nairobi Securities Exchange in Kenya. *Research journal of finance and accounting*, 4(15), 99-104.
- Nazar, M. C. A. (2016). Does CEO duality affect the firm performance? Evidence from Sri Lanka. *International Journal of Advances in Management and Economics*, 5(2), 56-60.
- Ngugi, R., Amanja, D. & Maana, I. (2009) "Capital Market, Financial Deepening And Economic Growth In Kenya"
- Nishanthan, G., Naresh, K., & Niroshan, A. (2014). The influence of board structure and CEO duality On capital structure: evidence from sri Lankan Financial services industry.
- Njeri, A. (2017). *Effects of innovation strategy on firm performance in telecommunications industry: A case of Safaricom Kenya limited* (Doctoral dissertation, United States International University-Africa).
- Pham, D., & Pham, Q. (2020). The impact of CEO duality on firm performance: Examining the life-cycle theory in Vietnam. *Accounting*, 6(5), 737-747.
- Richard, O. C., Wu, P., & Chadwick, K. (2009). The impact of entrepreneurial orientation on firm performance: the role of CEO position tenure and industry tenure. *The International Journal of Human Resource Management*, 20(5), 1078-1095.
- Rutledge, R. W., Karim, K. E., & Lu, S. (2016). The Effects of Board Independence and CEO Duality on Firm Performance: Evidence from the NASDAQ-100 Index with Controls for Endogeneity. *Journal of Applied Business & Economics*, 18(2).
- Sadeghi, A., Rose, E. L., & Madsen, T. K. (2021). Perceived export performance: A contingent measurement approach. *Journal of International Marketing*, 29(3), 63-84.
- Selvam, M., Gayathri, J., Vasanth, V., Lingaraja, K., & Marxiaoli, S. (2016). Determinants of firm performance: A subjective model. *Int'l J. Soc. Sci. Stud.*, 4, 90.
- Sethibe, T., & Steyn, R. (2016). Innovation and organisational performance: A critical review of the instruments used to measure organisational performance. *The Southern African Journal of Entrepreneurship and Small Business Management*, 8(1), 12.
- Tavitiyaman, P., Zhang, H. Q., & Qu, H. (2012). The effect of competitive strategies and organizational structure on hotel performance. *International Journal of Contemporary Hospitality Management*.
- Terblanche, N. S., Gerber, C., Erasmus, P., & Schmidt, D. (2013). A marketing perspectives on the impact of financial and non-financial measures on shareholder value. *South African Journal of Economic and Management Sciences*, 16(2), 216-230.

TERINTE, P. A. (2019), CEO Duality and Firm Profitability. Evidence from Emerging Europe.

Verreynne, M., & Meyer, D. (2008). To grow or not to grow: The effects of strategy-making process on small firm performance.

Wang, D., Sun, D., Yu, X., & Zhang, Y. (2014). The impact of CEO duality and ownership on the relationship between organisational slack and firm performance in China. *Systems Research and Behavioral Science*, 31(1), 94-101.

Yang, T., & Zhao, S. (2014). CEO duality and firm performance: Evidence from an exogenous shock to the competitive environment. *Journal of banking & finance*, 49, 534-552.

Yasser, Q. R., & Al Mamun, A. (2015). The impact of CEO duality attributes on earnings management in the East. *Corporate Governance*.

Yasser, Q. R., Al Mamun, A., & Suriya, A. R. (2015). CEO duality structure and firm performance in Pakistan. *Asian Journal of Accounting and Governance*, 5, 57-69.

Yu, M. (2008, February). CEO duality and firm performance for Chinese shareholding companies. In *19th Chinese Economic Association (UK) Annual Conference*.

Zahra, S. A., & Hayton, J. C. (2008). The effect of international venturing on firm performance: The moderating influence of absorptive capacity. *Journal of business venturing*, 23(2), 195-220.

