



The Strength of Sound Corporate Governance on Economic Growth in an Emerging Market Context

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ABSTRACT

The study examined the impact of sound corporate governance on economic growth in an emerging market, Zimbabwe, using an econometric model. A multiple linear regression analysis was employed to examine the relationship. Secondary data for the period from 1968 to 2015 was collected from World Bank's Worldwide Governance and World Development Indicators databases. It was found that sound corporate governance is significantly related to economic growth in an emerging market, Zimbabwe, in a positive and negative manner with a $P = 0.000023235$ at 5% level of confidence. On one hand, control of corruption is negatively significantly related to economic growth and on the other hand political stability and absence of violence/terrorism positively significantly related to economic growth. Government effectiveness, regulatory quality, rule of law and voice and accountability are insignificant in influencing economic growth in Zimbabwe at 5% level of significance. The findings from this article will assist policy formulation, policy implementation and future research. This article, however, is of great importance to government, private sector and the academia.

Keywords: Corporate Governance, Economic Growth, Economic Development, Gross Domestic Product, Investor Protection, Emerging Market
JEL Classifications: O11, O16, F43, G34, M14

1. INTRODUCTION

How critical is sound corporate governance to economic growth given the attention accorded to it in the aftermath of corporate scandals such as Enron, WorldCom and the global financial crisis and whether it can be considered a panacea for economic challenges facing the developing world in general and Zimbabwe in specific? One is forced to ask. To the World Bank (2017, p. 66), studies by Klapper and Love (2004), Claessens (2006), Kutan (2015) and Asker et al. (2015) provide evidence that achieving sound corporate governance promotes economic growth and development. World Bank (2017, p. 66) states that, "sound corporate governance is the optimal balance between controlling shareholders, minority shareholders, company managers and market regulators." The growth in attention that has been devoted to corporate governance throughout the whole world is neither new nor surprising (World Bank, 2017). According World Bank (2017) the Organisation for Economic Co-operation and Development and the American Law Institute principles of corporate governance have formed foundational references for sound corporate governance the world over among others.

These principles guarantee a minimum standard through which companies are directed and controlled. Okpara (2011) reasons that sound corporate governance principles provide shareholders with judicial recourse in case of violation of rules. Sound corporate governance provides investors with the comfort needed to finance business ventures of others without exerting direct control over the affairs of the company (Shleifer and Vishny, 1986; La Porta et al., 2000; Holderness, 2003; Dyck and Zingales, 2004). Sound corporate governance results in easier access to capital, company growth, generation of tax revenues as well as employment creation (Arora, 2014; Rupeika-Apoga, 2014). To Gompers et al. (2003), Brown and Caylor (2009) and Ammann et al. (2011), sound corporate governance also contributes to value maximization throughout the life of a company. Sound corporate governance gives executives and managers the authority to efficiently and sufficiently apply their skills and business acumen (Grossman and Hart, 1982; Denis and Serrano, 1996; Aggarwal et al., 2009). Bebchuk (2013) claims that sound corporate governance ensures that proper internal structures, processes and adequate risk management measures are in place.

Research studies have also shown positive affect of sound corporate governance on equity returns and efficiency (Ates et al., 2014; Lan and Varottil, 2015; Liljebloom and Maury, 2016). Policy-makers need to appreciate the role of sound corporate governance in sustainable economic growth and development (Posner, 1983; La Porta et al., 1996). Sound corporate governance principles are critical elements in restoring and boosting investor confidence and trust (Tiwari, 2010). De Paula (2003) cited by Tiwari (2010. p. 2) states that sound corporate governance enhances economic growth and development through two mechanisms which are, its association with financing and investment and economic system efficiency. This study seeks to examine the strength of sound corporate governance on economic growth in Zimbabwe.

The remainder of the article is structured as follows: Section 2 literature review; Section 3 research methodology; Section 4 data analysis and interpretation and Section 5 conclusion.

2. LITERATURE REVIEW

2.1. Definition of Corporate Governance

Weimer and Pape (1999) cited by Tiwari (2010. p. 1) “(define) corporate governance as a country specific framework of legal, institutional and cultural factors, shaping the patterns of influence that stakeholders exert on managerial decision making.” To Charreaux (1997) cited by Tiwari (2010. p. 1), “corporate governance (are) the organizational mechanisms which have the effect of bounding the powers and of influencing the decisions of the managers, in other words, the mechanisms which ‘govern’ their behaviour and define their discretionary space.” However, to Pass (2004) cited by Tiwari (2010. p. 1), “corporate governance deals with the duties and responsibilities of a company’s board of directors in managing the company and their relationships with the shareholders of the company and the stakeholder groups.” For more definitions of corporate governance, see Maune (2008). Maune (2014) gives a detailed overview of corporate governance in Zimbabwe. Maune’s (2014) study took a qualitative approach to provide Zimbabwe’s corporate governance overview with findings showing that Zimbabwe remains amongst a few countries that do not have a national code of corporate governance. Corporate governance practice in Zimbabwe has been regulated by the Companies Act (Chapter 24. p. 03), Zimbabwe Stock Exchange Act (Chapter 24. p. 18), Reserve Bank of Zimbabwe’s guideline of 2004 as well as rules of various other professional bodies (Maune, 2014). Maune (2014) claims that corporate governance in Zimbabwe became a major topic for discussion after the local financial crisis of 2003 that saw the near collapse of the financial services sector. This period saw an increase in non-academic trainings, academic educational programmes and research on corporate governance in Zimbabwe (Maune, 2014). The study by Maune (2008) has shown that control of corruption and government effectiveness are insignificant in influence gross domestic product (GDP) per capita as their P values were greater 0.05 level of significance. However, political stability and absence of violence/terrorism, regulatory quality, rule of and voice and accountability are significant at 5% level of significance as their P values were <0.05. Variables rule of law and voice and accountability had negative influence on GDP per capita. However, the overview

did not cover the National Code of Corporate Governance that became a reality in 2014. The code is structured in nine chapters. The code recognizes law as the foundational source of corporate governance on which voluntary codes are built. The code has a broader coverage compared to the Reserve Bank of Zimbabwe’s 2004 corporate governance guideline which applies to all banking and non-banking institutions that are licensed and supervised by the Central Bank. Table 1 shows the structure of the National Code of Corporate Governance in Zimbabwe.

2.2. Measuring Corporate Governance

Corporate governance has proved to be difficult to measure and quantify given that there are a few objective indicators that can be systematically collected across firms within a country let al.ne across countries (African Development Bank, 2011). However, the World Bank under its Doing Business Report has started to publish an “Investor Protection Index,” which index seeks to measure the strength of minority shareholder protection against the misuse of corporate assets by directors pursuing self-satisfying interests (African Development Bank, 2011). World Bank (2017) states that there are two set of three indices each under which minority investor protection datasets are group into. These are shown in Table 2. World Bank (2017. p. 66) further states that, “the first set of indices focuses on the regulation of conflicts of interest, specifically self-dealing in the context of related-party transactions. A related-party transaction refers to a case where a person has an economic or personal interest in both parties to the transaction. The second set of indices provides a more general view of corporate governance practices, ranging from shareholder rights, protection from share dilution, ownership structure and control of the company to managerial compensation and audit transparency.” African Development Bank (2011) confirms that although the World Bank’s Investor Protection Index is limited in scope with regards to capturing the full breath of corporate

Table 1: Zimbabwe’s National Code of Corporate Governance structure

Chapter	Description
1	Application of the code and its derivatives
2	Ownership and control
3	Board of Directors and Directors
4	Governance of risk
5	Corporate information management and disclosure
6	Conflict prevention and resolution
7	Compliance and enforcement
8	Stakeholder relationship
9	Role of government in corporate governance

Table 2: Investor protection indicators

Extent of conflict of interest regulation index	Extent of disclosure index Extent of director liability index Ease of shareholder suits index	Measured since 2004
Extent of shareholder governance index	Extent of shareholder rights index Extent of ownership and control index Extent of corporate transparency index	Measured since 2014

Source: World Bank, Doing Business 2017

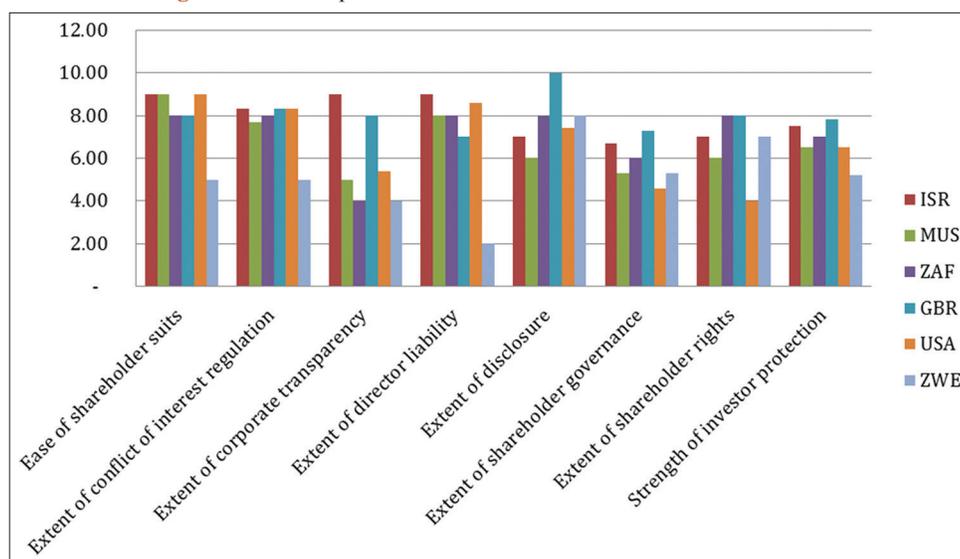
governance issues, it however, provides a useful snapshot of a very critical aspect of corporate governance, that is, investor protection, that is comparable across countries. However, very few studies have started using the Investor Protection Index due to non-availability of data especially for developing countries since the shareholder governance index which is part of the main index emerged in 2014 while conflict of interest regulation index emerged in 2004 as shown in Table 2.

Table 3 and Figure 1 shows Zimbabwe's performance against countries such as Israel, Mauritius, South Africa, United Kingdom and the United States of America. These countries were selected on the basis of data availability and a result of influence from literature which ranks these countries high. A mix of both developing and developed countries was used. Zimbabwe ranks below these countries in most of the indices except in extent of disclosure index in which she ranks above Israel, Mauritius and the United States of America as well as in extent of shareholder rights in which she ranks above Mauritius and the United States of America. Zimbabwe has, however, recorded its worst performance in the extent of director liability in which she recorded an index of 2 with Israel 9, Mauritius 8, South Africa 8, United Kingdom 7 and United States of America 8.60.

2.3. Empirical Evidence

According to Tiwari (2010), very few studies have been devoted towards investigating the relationship between sound corporate governance and financial success of enterprises. However, Gompers et al. (2003) cited by Tiwari (2010, p. 3) "find that firms with strong shareholder rights have superior valuation, better profits, and better sales growth." Gompers et al.'s study (2003) used the incidence of 24 governance rules, by constructing a "Governance Index" to proxy for the level of shareholder rights at about 1500 large firms during the 1990s. Their study employed regression analysis. Tiwari (2010, p. 3) states that "Claessens (2003) demonstrates a relationship between corporate governance and improved performance of enterprise and finds that the relationship between corporate governance to improved performance of the enterprises is not from better corporate governance to improved performance; rather it is either the other way around or due to some other factors that drives both better corporate governance and better financial performance." Tiwari (2010) finds that performance of corporate governance is significantly negatively related to the economic growth in both specifications and in all models and hence it matters not only for the current year but it continues to persistent in future also. Tiwari's study (2010) used the log liner model on cross-section of countries.

Figure 1: Investor protection indices for selected countries as of 2016



Source: Author (data collected from World Bank's Doing Business Database, 2017)

Table 3: Investor protection indices for selected countries as of 2016

Description	ISR	MUS	ZAF	GBR	USA	ZWE
Ease of shareholder suits	9.00	9.00	8.00	8.00	9.00	5.00
Extent of conflict of interest regulation	8.30	7.70	8.00	8.30	8.30	5.00
Extent of disclosure	7.00	6.00	8.00	10.00	7.40	8.00
Extent of director liability	9.00	8.00	8.00	8.00	8.60	2.00
Extent of corporate transparency	9.00	5.00	4.00	8.00	5.40	4.00
Extent of shareholder governance	6.70	5.30	6.00	7.30	4.60	5.30
Extent of shareholder rights	7.00	6.00	8.00	8.00	4.00	7.00
Strength of investor protection	7.50	6.50	7.00	7.80	6.50	5.20

Source: Author (Data collected from World Bank's Doing Business Database, 2017; Where ISR – Israel, MUS – Mauritius, ZAF – South Africa, GBR – United Kingdom, USA – United States of America and ZWE – Zimbabwe)

Brown and Caylor (2004) analyze the US firms with 51 factors, 8 sub-categories for 2327 firms based on dataset of Institutional Shareholder Service. The study finds that better-governed firms are relatively more profitable, more valuable, and pay out more cash to their shareholders. The study also shows that good governance, as measured using executive and director compensation, is most highly associated with good performance. In contrast, the study shows that good governance as measured using charter/bylaws is most highly associated with bad performance. The study used Person and Spearman correlations to carry out the cross-sectional analysis.

Black et al.'s study (2006) based on a 2001 Korea Stock Exchange survey of 515 Korean companies shows that the overall corporate governance index is an important and likely causal factor in explaining the market value of Korean public companies. Their study shows evidence of a causal relationship between an overall governance index and higher share prices in emerging markets. Black (2001) examines the relationship between corporate governance behavior and market value for a sample of 21 Russian firms. The results the study shows that corporate governance behavior has a powerful effect on market value in a country where legal and cultural constraints on corporate behavior are weak. Johnson et al. (2000) cited in Claessens (2003, p. 19) state that "there is also country-level evidence that weak legal institutions for corporate governance were key factors in exacerbating the stock market declines during the 1997 East Asian financial crisis." To Claessens (2003), net capital inflows are more sensitive to negative events that adversely affect investors' confidence especially in countries associated with weaker investor protection. Claessens (2003) further argues that in such countries, high risk of expropriation is witnessed in such crisis with lower than expected return of investment realized resulting in the collapse in the country's currency and stock prices.

Lemmon and Lins (2003, p. 1463-64) states that "Mitton's (2002) (study) also examines how various aspects of corporate governance affect firm performance during the crisis using a smaller sample of approximately 400 (listed) firms from five East Asian countries (Indonesia, Korea, Malaysia, Philippines and Thailand) (and) A finds evidence that stock returns during the crisis period are positively related to the cash flow rights of the firm's largest blockholder. He finds only weak evidence, however, that the separation of cash flow rights and control rights has an effect on firm performance during the crisis."

Similarly, Lemmon and Lins (2003) using a sample of 800 firms in eight East Asian countries find out that, the financial crisis, negatively impacted firms' investment opportunities, raising the incentives of controlling shareholders to expropriate minority investors. Their study also found that stock returns between 10% and 20% and lower were realized in firms where managers had high levels of control rights, but had separated their control and cash flow ownership than others. The study made use of regression analysis. To Claessens (2003, p. 19), "this provides firm-level evidence consistent with the view that corporate governance helps explain firm performance during a financial crisis." According to Claessens (2003, p. 18), "this shows that corporate governance

can play an important role in determining individual firms' behavior, in particular the incentives of insiders to expropriate minority shareholders during times of distress." Cornett et al.'s study (2009) on the performance of USA's publicly-traded banks before and during the financial crisis, find that bank performance decreased dramatically during that period. Their study also found that CEO pay-for-performance sensitivity and insider ownership weakened significantly just before and during the financial crisis. Of interest was the significant impact corporate governance had on market returns in 2008 for the largest banks and not as much for the smaller banks. To Cornett et al. (2009), those banks which exhibit the strongest corporate governance controls performed best. The study employed regression analysis.

3. METHODOLOGY

This article seeks to examine the strength of sound corporate governance on economic growth in Zimbabwe from 1968 to 2015 through an econometric analysis of secondary data. Zimbabwe was selected given its economic challenges as well as the availability of secondary data.

In the study, data was obtained from the World Bank official websites, that is, the Worldwide Governance Indicators (2016) and the World Development Indicators (2016) databases. The article employed an econometric model to analyze the relationship between corporate governance and economic growth in Zimbabwe from 1968 to 2015. The following multiple regression model was obtained:

$$GDP = \beta_1 + \beta_2 CC + \beta_3 GE + \beta_4 PSAVT + \beta_5 RQ + \beta_6 RL + \beta_7 VA + u_t \quad (1)$$

Where, GDP being the dependent variable representing economic growth in millions, CC – Control of corruption, GE – Government effectiveness, PSAVT – Political stability and absence of violence/terrorism, RQ – Regulatory quality, RL – Rule of law and VA – Voice and accountability, u_t – Random disturbance term, and the coefficient estimates $\beta_1, \beta_2, \dots, \beta_7$ are the parameters which quantify the effect of each of these explanatory variables on GDP. Finally, Durbin–Watson test was performed to test for autocorrelation and lack of independence of residuals, factor analysis and step wise regression to determine variables with the greatest effect on GDP has been performed in the model. Why were the six dimensions of governance used rather than the investor protection index? It must be noted that although the investor protection index would have produced better results representing corporate governance at corporate levels (Doing Business, 2017), however, the method was not applied due to the unavailability of adequate data for econometric analysis. Therefore the study had to apply the six governance Worldwide Governance Indicators following studies by Kaufmann et al. since 1999-2010. The Worldwide Governance Indicators, that is, the six dimensions of governance measures governance at national level as this will cascade downwards to corporate and individual levels. These six dimensions were examined to ascertain their impact on economic growth in Zimbabwe as stated above. Table 4 shows the variables used in the regression model and their explanations.

Table 4: Explanations of variables used in the regression model

Variables	Explanations
GDP	GDP at purchaser's prices is the sum of gross value added by all resident producers in the economy plus any product taxes and minus any subsidies not included in the value of the products. It is calculated without making deductions for depreciation of fabricated assets or for depletion and degradation of natural resources
CC	Control of corruption captures perceptions of the extent to which public power is exercised for private gain, including both petty and grand forms of corruption, as well as "capture" of the state by elites and private interests
GE	Government effectiveness captures perceptions of the quality of public services, the quality of the civil service and the degree of its independence from political pressures, the quality of policy formulation and implementation, and the credibility of the government's commitment to such policies
PSAVT	Political stability and absence of violence/terrorism measures perceptions of the likelihood of political instability and/or politically-motivated violence, including terrorism
RQ	Regulatory quality captures perceptions of the ability of the government to formulate and implement sound policies and regulations that permit and promote private sector development
RL	Rule of law captures perceptions of the extent to which agents have confidence in and abide by the rules of society, and in particular the quality of contract enforcement, property rights, the police, and the courts, as well as the likelihood of crime and violence
VA	Voice and accountability captures perceptions of the extent to which a country's citizens are able to participate in selecting their government, as well as freedom of expression, freedom of association, and a free media

The ranking indicates the country's rank among all countries covered by the aggregate indicator, with 0 corresponding to lowest rank, and 100 to highest rank. Source: World Bank's Worldwide Governance and World Development Indicators databases, 2016. GDP: Gross domestic product

4. DATA ANALYSIS AND INTERPRETATION

In this article a multiple regression analysis was carried out to examine the impact of sound corporate governance on economic growth in Zimbabwe. The results of the econometric model are presented in Table 5.

From Table 5 it is evident that the impact of sound corporate governance as measured by the six dimensions of governance on economic growth (GDP) in Zimbabwe is both positive (expected) and negative (not expected). The impact of CC, GE and RQ is negative on the economic growth of Zimbabwe. However, the impact of PSAVT, RL and VA is positive on economic growth of Zimbabwe. The econometric model shows an $R = 0.719149$ meaning that 0.52% of the variance ($0.719149^2 = 0.517176$) in GDP in Zimbabwe is explained by the six explanatory variables acting in concert. $R^2 = 0.517176$ indicates that a good deal of the variability of GDP is captured by the regression model. The adjusted $R^2 = 0.446519$ (that is, value of coefficient of multiple correlation determination adjusted by degrees of freedom) in the model is not quite high, that is, below 50% indicating that the explanatory power of the variables included in the analysis is not considerably high as would have been expected. F-test of 0.000023235 shows that the model is significant at 5% level of significance showing a good fit for the data. On one hand variables CC and PSAVT have the greatest influence on GDP in Zimbabwe as they are statistically significant at 5% level of significance, that is, their $P < 0.05$. On the other hand variables GE, RQ, RL and VA are not statistically significant at 5% level of significance as their $P > 0.05$. On the whole, the results are not consistent with the results by Maune (2008) in a study that involved 13 countries in sub-Saharan Africa covering the period 2005-2011. In Maune (2008), CC, GE are insignificant to GDP per capita though positive. To Kaufmann et al. (2007) GE should by construction be positively correlated with growth. A decrease in government personnel quality lowers growth. GE is critical in measuring government personnel quality. Hence the results of this study must be a cause

for concern for government and its institutional quality. Their $P > 0.05$ at 5% level of significance. However, PSAVT, RQ, RL and VA are significant with $P < 0.05$ at 5% level of significance. RL and VA, however, have negative influence on GDP per capita. In this current study CC and PSAVT are significant variables in influencing GDP as their $P < 0.05$. The inconsistency in the results for both studies might be as a result of different periods being covered as well as geographical areas covered.

Durbin-Watson test of correlation among the residuals reveals a substantial autocorrelation. From the results in Table 5, $d < dl$ ($0.41733 < 1.27087$) meaning the null hypothesis is rejected and the existence of a positive autocorrelation presumed at 5% level of significance. The stepwise regression in Table 6 shows that CC, PSAVT and VA are statistically significant at 5% level of significance with $P < 0.05$ thereby greatly impacting GDP in Zimbabwe with CC having a negative impact while PSAVT and VA impacting GDP in a positive way. This shows that of the five governance variables, only three are statistically significant in influencing GDP in Zimbabwe for the period under consideration. These variables by construction must be positively correlated with growth, hence the need to serious look at each variable to ascertain the causes of its behavior. In comparison with Maune's (2008) study, PS, RQ, RL and VA are statistically significant though RL and VA are negative while PSAVT and PS have positive influence on GDP. The factor analysis in Table 7 shows the descriptive statistics, that is, the mean, standard deviation from the mean, skewness as well as the kurtosis and the correlation matrix at 5% level of significance showing individual variables' correlation with one another. The results show that all the variables are negatively correlated with GDP at < 0.5 . However, when these variables are compared with each other except with GDP are showing positive correlation above 0.7.

It must be noted that although there is positive correlation between sound corporate governance and economic growth a lot needs to be done if Zimbabwe is to realize the positive gains that comes

Table 5: Regression analysis, influence of sound corporate governance on economic growth in Zimbabwe

Dependent variable: GDP (current US\$ million)							
Regression analysis				Durbin–Watson test			
Overall fit		Information criteria					
Multiple R	0.719149	AIC	745.7425	Alpha	0.05		
R ²	0.517176	AICc	749.4348	D-statistics	0.417333		
Adjusted R ²	0.446519	SBC	758.8409	D-lower	1.27087		
Standard error	2210.851			D-upper	1.82645		
Observations	48			Significant	Yes		
ANOVA ($\lambda=0.05$)							
	df	SS	MS	F	P value	Significant	
Regression	6	2.15E+08	35776715	7.319504	2.32E-05	Yes	
Residual	41	2E+08	4887860				
Total	47	4.15E+08					
	Coefficient	Standard error	t-statistics	P value	Lower	Upper	VIF
Intercept	1577.059	2937.735	0.536828	0.594288	-4355.82	7509.937	
CC	-465.433	149.1723	-3.1201	0.003305	-766.692	-164.173	69.90417
GE	-180.219	177.31	-1.01641	0.315395	-538.304	177.8653	92.96515
PSAVT	359.0503	125.6009	2.858659	0.006659	105.3941	612.7066	5.383885
RQ	-72.533	930.5105	-0.07795	0.938247	-1951.74	1806.671	496.0083
RL	368.9411	791.6118	0.466063	0.643637	-1229.75	1967.634	710.0842
VA	499.7412	294.8765	1.694748	0.097707	-95.7739	1095.256	87.35562

GDP: Gross domestic product, AIC: Akaike information criterion, SBC: Schwartz Bayesian criterion, PSAVT: Political stability and absence of violence/terrorism, VIF: Variance inflation factor, CC: Control of corruption, GE: Government effectiveness, RQ: Regulatory quality, RL: Rule of law, VA: Voice and accountability

Table 6: Stepwise regression analysis

ANOVA ($\lambda=0.05$)							
	df	SS	MS	F	P value	Significant	
Regression	3	2.02E+08	67389305	13.92768	1.61E-06	Yes	
Residual	44	2.13E+08	4838515				
Total	47	4.15E+08					
	Coefficient	Standard error	t-statistics	P value	Lower	Upper	VIF
Intercept	260.9859	1865.487	0.139902	0.889376	-3498.66	4020.629	
CC	-487.118	123.7787	-3.9354	0.000292	-736.578	-237.659	48.62117
PSAVT	347.98	103.8335	3.351325	0.00166	138.7172	557.2427	3.716996
VA	568.9594	229.464	2.479515	0.017058	106.5051	1031.414	53.43754

PSAVT: Political stability and absence of violence/terrorism, CC: Control of corruption, GE: Government effectiveness, RQ: Regulatory quality, RL: Rule of law, VA: Voice and accountability, VIF: Variance inflation factor

with sound corporate governance. A number of reforms need to be done to raise the country's percentile ranking as determined the World Bank's Worldwide Governance Indicators. The country has taken a positive path through the introduction of the National Code of Corporate Governance in 2016, ease of doing business reforms, realignment of the companies act and other property rights laws.

In absolute numbers, Zimbabwe has been ranking below 50% in all the six dimensions since 1968-2015 with the period 1968-1999 ranking above 18% but below 48%. Period 2000 to 2015 has seen ranking levels averaging between 4% and 17% on all the six dimensions of governance. Although there a quite a number of factors that have contributed to the drop in ranking such as the land reform programme, economic sanctions and the financial crisis (both global and local), the country has not done much towards promoting sound corporate governance. A study by Maune (2014) shows that nothing much has been done towards promoting sound corporate governance in Zimbabwe. However, a few reforms were done after the financial crisis that saw the near collapse of the financial sector and the whole economy from 2004 to 2008 before the country adopted the multicurrency regime.

5. CONCLUSION

The study examined the impact of sound corporate governance on economic growth in Zimbabwe using an econometric model. GDP was used as a dependent variables representing economic growth with the explanatory variable denoted by the six dimensions of governance as given by the World Bank's Worldwide Governance Indicators, that is, control of corruption, government effectiveness, political stability and absence of violence/terrorism, regulatory quality, rule of law and voice and accountability. A multiple regression model was developed to analyse the impact of sound corporate governance on economic growth in Zimbabwe. The study found that sound corporate governance was significantly positively and negatively related to economic growth in Zimbabwe for the period 1968-2015 at 5% level of significance. It was also found that PSAVT, RL and VA have positive impact on GDP with CC, GE and RQ having negative impact on GDP in Zimbabwe. CC and PSAVT have greater impact on GDP in Zimbabwe with $P < 0.05$. GE, RQ, RL and VA were found to have no statistical significant influence on GDP in Zimbabwe with $P > 0.05$. On the whole, the model was statistically significant with at 5% level of significance with a $P = 0.000023235$ at 5% level of significance.

Table 7: Regression analysis, factor analysis – Principal component extraction

Empirical density/index	Descriptive statistics						
	GDP	CC	GE	PSAVT	RQ	RL	VA
Mean±Standard deviation	6713.651±2971.72	31.71295±18.07482	35.5439±17.53628	24.16084±5.957519	13.70509±7.718513	18.3499±10.85558	23.71545±10.22153
Skewness	0.709217	-0.80366	-0.91869	-1.19226	-0.84989	-0.86477	-0.8809
Kurtosis	0.896265	-1.33443	-1.08321	-0.13918	-1.25793	-1.24506	-1.13232
Correlation matrix							
GDP	CC	GE	PSAVT	RQ	RL	VA	
GDP	1						
CC	-0.44182	1					
GE	-0.43687	0.985918	1				
PSAVT	-0.11383	0.837689	0.801544	1			
RQ	-0.40891	0.973042	0.778687	1			
RL	-0.40147	0.977151	0.793684	0.998355	1		
VA	-0.37943	0.989572	0.985911	0.973031	0.979746	1	
SSQ	0.871377	4.749852	4.717378	4.628506	4.677917	4.73054	

PSAVT: Political stability and absence of violence/terrorism, CC: Control of corruption, GE: Government effectiveness, RQ: Regulatory quality, RL: Rule of law, VA: Voice and accountability, GDP: Gross domestic product, SSQ: Sum of squares

The stepwise regression analysis shows that CC, PSAVT and VA have greater significance on GDP in Zimbabwe with $P < 0.05$. The results shows CC to have a significant negative impact on GDP in Zimbabwe.

These results are very critical to policy-makers and government at large as by construction the governance variables must be positively corrected with growth but in this case the results of the regression model shows that PSAVT, RL and VA are positively correlated with growth with PSAVT showing significant influence with a $P < 0.05$ at 5% level of significance. Variables CC, GE and RQ are inconsistent with the norm. The author is however aware of the limitations of this study using the World Bank Worldwide Governance Indicators and the need to complement these with other macroeconomic variables that have influence on the country's GDP. These could act as control variables. There is much room for further future research in this area. However, it is the author's hope that this study will go a long way in influencing policy planning and formulation as well as stimulating future research.

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