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How is the International Financial Reporting Standards Adjudged? Assessing the Macroeconomic and Financial Market Development Factors Effects for African Evidence

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Abstract

Global continents, especially Europe, have marked the relevancy of International Financial Reporting Standard (IFRS) adoption since its development by the International Accounting Standard Board (IASB). However, a large number of African countries have not adopted it. This study specifically examines the IFRS adopters and non-adopters of African countries which are explained by both macroeconomic and financial market development factors. The study used binary panel logistic regression for estimation of 38 countries using data from the Global Competitiveness Report for 2015/16-2017/18 of African countries to estimate the extent to which macroeconomic and financial market development factors explain the effective adoption of IFRS in Africa. Findings confirm that the tax rate, quality of national accounting body, and rate of inflation do not influence IFRS adoption in African countries. On average, financial market development indicators significantly increase the likelihood of IFRS adoption in African countries. These studies extend support for prior literature about IFRS adoption determinants. The findings highlight the importance and the need for standardsetters to facilitate IFRS adoption of African countries. This study augments the existing strand of empirical literature by looking at macroeconomic and financial market development perspectives. Keywords: IFRS Adoption, Macroeconomic Factors, Financial Market Development Factors, Logistic Regression

Introduction

Quality macroeconomic factors improve the reliability of the national set of accounting standards because they help in shaping the fundamental basis for the quality of International Financial Reporting Standards (IFRS) within IFRS-based countries (Bonito and Pais, 2018). Macroeconomic factors achieve a sound IFRS adoption that enhances acceptability of financial accounts. It is

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perceived that there is a probability of material misstatement the adoption of IFRS may reveal within the interplay of these factors. Quality macroeconomic factors enhance the soundness of the financial market development of some African countries, consequently having a positive influence on the whole economy, especially on business operations in the country (Bruggermann et al., 2013; Elliot and Elliot, 2013; Shima and Yang, 2012). Some empirical studies pinpoint that major drivers of capital markets are macroeconomic factors. Few studies have established that the interplay of macroeconomic factors and financial market development in explaining the adoption of IFRS (Elliot and Elliot, 2013; Shima and Yang, 2012) in Africa. Generally, the relationships between macroeconomic and financial market development factors have received a minimal attention in accounting research and therefore is much under-researched. It is undoubtedly true that macroeconomic and financial market development factors of nations pass through phases of changes that are difficult to be captured in accounting settings and practices, therefore posing a marked departures on acceptable standards (Albu et al., 2017; Albu et al., 2014). In view of this, the purpose of this paper is to examine how macroeconomic and financial market development factors contribute to explain the adoption of IFRS in Africa.

In Africa, listed firms are expected to adopt and apply IFRS in the harmonization of global acceptability of new standards in the presentation and preparation of consolidated accounts. Bearing in mind the macroeconomic and financial market development factors, there is still a lack of empirical evidence that test the interplay of macroeconomic and financial market development factors on the IFRS adoption in African evidence. Therefore, it becomes very necessary to set the platform for this study. Studies depict that the IFRS adoption ameliorates the situation of quality macroeconomic factors and sound financial market development interplay in strengthening quality accounting information for improving decision making by the users of the accounts (Lawrence, 2013; Beaver et al., 2010). Such interplay is under-research in the African setting. In Africa, the link between macroeconomic factors and financial market development is required to cement the financial reporting environment to cause a reduction in information asymmetry. Giving the insurgence of IFRS adoption's eminent role by the listed firms in Africa, the purpose of this study is to examine the extent of the interplay of macroeconomic and financial market development factors (Othman and Kossentini, 2015) to explain the IFRS adoption. The nature of this study may be scanty from the African context.

Amihud and Mendelson (1986) cited that countries adopting IFRS are more or less assured of quality financial reporting for perceived benefits as lower cost of capital, improving shareholders confidence, increasing liquidity which leads to improving transparency (Shima and Yang, 2012), with consequences of attracting foreign and local investments. Moreso, Barth, Landsman, and Lang, (2008) cited that for comparability and understandability of financial reporting across countries, the IFRS adoption become necessary, as investment across countries, and international trade are encouraged. Barth, Landsman and Lang (2008) argued that IFRS adoption has generally enhanced the financial reporting quality, increase the transparency of financial statements, decrease the cost of capital, increase cross-country investments, and has also enhanced the analyst following.

Several empirical studies have demonstrated that the macroeconomic factors like the legal system, quality of national accounting standards, tax rules, foreign aid explain the IFRS implementations across varying continents (Albu, Albu & Alexander, 2014; Perera and Chand, 2015; Felski, 2015; Albu

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et al., 2014; Lasmin, 2015; Kossentini and Othman, 2014). Notwithstanding, Ernest and Young, (2010) study revealed that some of the macroeconomic factors of IFRS adoption are weak in Africa. The study concluded that although South Africa had accounting reporting standards similar to IFRS, it faced difficulty in switching from local GAAP to the IFRS due to weak macroeconomic factors. Weaker standards have been attributed to differences in continental characteristics which unfortunately have received less attention from Africa literature perspectives. Contrary, the adoption of IFRS in African countries have experienced some delays due to the perception that some African countries have weak educational systems to augment the implementation the IFRS adoption and therefore, the adoption was not appropriate (Perera and Chand, 2015; Ernest and Young, 2010) in Africa.

Similarly, studies have examined the extent the financial market development factors explain IFRS adoption in African countries. It is undoubtedly true that the positive orientation of the capital market leads to share and encourage the stakeholders to understand and compare accounting and market information to make meaningful investment decisions. This would be a platform to acknowledge the effect of financial crises or risks and its influence on the macroeconomic factors. There is evidence that banks that adopted the IFRS reveal a lower rate of interest especially from the developing countries perspectives (Kim et al., 2011). Some IFRS empirical papers inherently evidence the quality accounting information for enhancing comparability, transparency, and understandability by stakeholders (Daske et al., 2008; Chritensen, 2012).

This paper is significant to policymakers, investors in Africa capital markets, financial market regulators, and researchers concerning the recognition of macroeconomic and financial market development factors within standards settings in the business environment. This study uses data from the 38 African countries over 2 years period of 2015-2016 and 2017-2018.

Our results evidence that the macroeconomic and financial market development factors have influenced the adoption of IFRS in African. This finding supports the decision usefulness theory that IFRS adoption decision depicts the economic outcome of matters that are on the financial accounts of interest to the users. Furthermore, the development of accounting settings emanate from the usefulness and quality of the macroeconomic decisions and quality financial sector orientations. The other sections of this study are organized as follows. Section 2 reviews relevant existing literature in the subject areas. Section 3 focuses on research design which includes data, and estimation strategy. Section 4 describes estimation analysis and finally empirical discussion and conclusions are

Background, Literature Review, and Hypotheses Development

Decision Usefulness Theory and IFRS

in section 5..

This theory posits that final accounting numbers render little in making economic decisions by investors. This manner stifles investors' ability in assessing the financial health that determines the future strengths of the company. The adoption of IFRS enhances the relevance of financial information in comparing the fundamental acceptable basis to evaluate accounting numbers. This encourages fairness for higher accounting quality to facilitate usefulness of decision making (Funningham, 2010; Shima and Yang, 2012) thereby ameliorating the marketability of the share price of firms.

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IFRS of African countries

Touching on how a national set of financial accounting standards influences IFRS adoption, Jermakowicz and Epstein (2010) disclosed that the development of IFRS is an answer to countries looking for new financial reporting standards but do not have resources to do one. Therefore, countries without or weak national set of accounting standards are more ready to adopt IFRS than those with a full set of accounting standards and well better of (Johnson, 2011). DiMaggio and Powell (1983) based on Mimetic Isomorphism indicated that countries imitate after similar countries in standard settings. So, to avoid struggling and challenges in accounting standards development, some countries would comfortably adopt IFRS (Beneish et al., 2015 to ease themselves of any financial struggles.

Our results evidence that the macroeconomic and financial market development factors have an influence on the adoption of IFRS in African as far as strengthening institutions and ensuring sound resilient business environment are concerned (Huth et al., 2014; Brown and Tarca, 2012; Brown, 2011). This finding supports the decision usefulness theory that IFRS adoption decision depicts and supports economic outcome of matters that are on the financial accounts. Furthermore, development of accounting settings emanates from usefulness and quality of macroeconomic factors and quality financial sector orientations (Kapellas and Siougle, 2017; Tarca, 2012).

Contrary, we envisage the different route African countries implemented the IFRS compared to the developed countries' trend of footprint in the adoption. In this study, we focus on the extent by which the macroeconomic factors and financial market development factors play substantial orientations by explaining the switch to the IFRS in Africa. Stainbank (2014) disclosed in the study that sound market capitalization exhibits a faster-growing economy that tends to enhance adopting IFRS in Africa. This indicates in promoting transparency and quality in financial information (Assenso-Okofo et al., 2011).

Macroeconomic factors and IFRS

Macroeconomic factors explain the IFRS adoption and harmonization of accounting standards, even though there are adoption differences under the implementation of the new standards. North (2005) highlighted that such differences are fundamental for changing economic dynamics. So, it is believed that macroeconomic factors influence accounting measurement practices under its development systems (Nobes and Parker, 2010). Therefore, it is necessary to investigate the extent to which macroeconomic actors explain the adoption of IFRS in African settings.

Empirical studies on the macroeconomic factors and standard settings have proliferated over the last couple of years, due to importance of experience and knowledge, the level of professional accountants, familiarity with IFRS, the legal system, quality of national financial accounting standards, tax rules, and foreign aid, as influential macroeconomic determinants that encourage IFRS adoption globally (Albu, Albu, and Alexander, 2014; Perera and Chand, 2015; Felski, 2015; Perera and Chand, 2015; Albu et al., 2014; (Lasmin, 2015; Kossentini and Othman, 2014). Previous empirical research paid much attention to the legal system as a predominant force to reckon with among other factors (Doupnik and Slater, 1995; Bonito and Pais, 2018). Notwithstanding this assertion, Ernest and Young

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(2010) emphasized that macroeconomic factors do not fully explain the African situation of IFRS implementations. This limitation partly explains why some African countries have not adopted the IFRS or otherwise.

Felski (2015) and, Kolsi and Zehri (2013) argued that because IFRS emanated from common law countries of the same legal systems, such nations are more likely to adopt IFRS than countries with code law. This assertion made the Anglo-Saxon colonized-nations in general demonstrating support for the full adoption of IFRS (Irvine, 2008).

In another stands, the adoption of IFRS is motivated more by social pressures of legitimacy than it is by economic reasoning as echoed by the isomorphism theory of DiMaggio and Powell (1983). Donor funds organization would expect nations to adopt the new standards that will provide quality returns for understandability, comparability, efficiency which in turn increase investor confidence and associated information quality. To qualify for such aid, donor countries put pressure on African nations to adopt the new standards for financial reports clarity. On a similar note, Kaya and Koch (2015) stipulated, that some-how the donor organizations influence IFRS applications in the larger extent. For example, the World Bank makes it mandatory for developing countries with membership of the IMF, World Bank Aid, and Britain Wood to embrace the adoption of IFRS. The World Bank is of the view that, by adopting the new standards, IFRS-adopters financial accounts with the World Bank would be well represented and understood by both parties with ease (Loeb and Zhu, 2012). By this, member-nations are attracted to adopt the new standards, as such move qualifies them to enjoy the loan facilities (Judge et al., 2010; Albu et al., 2011; Boolaky, 2012). Besides, Nobes and Parker (2010) cited that regulatory quality positively affects the possibility of IFRS adoption in developing countries. This is partly true where the regulatory quality creates a demand for competent and independent compliance and monitoring of accounting standards.

On the balance of the confirmatory discussion, the study, therefore, hypothesizes that macroeconomic quality factors are likely to influence the adoption of IFRS in the African continent.

Financial market development and IFRS

It is undoubtedly true that private sector firms' more or less shape the IFRS adoption and implementation, which in turn fortify the financial market development in African, especially in the common law nations. For the code law countries, the state and debt-holders drive the efficacy of accounting standards of accuracy of their debts, suggesting the relevance of financial markets operations under the new standards. A strong force of equity market in the common law countries enhance the IFRS adoption (Nobes, 2008), but some capital markets in Africa exhibit small and low equity markets, and therefore are evidencing IFRS implementation problems thereby disregarding the new standards adoption. This upholds the view that financial issues and strong earnings are critical to enhance the IFRS adoption in Africa. The soundness of financial sectors under the IFRS requires full disclosure on a timely basis for giving reasonable assurance of information quality which in turn provides quality investment decisions.

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In a similar vein, Perera and Chand (2015) and Jemakowich (2006) argued that countries with a more developed capital market would adopt IFRS because of advantages of harmonization of financial statements to meet investors' expectations across national boundaries. Kossentini and Othman (2014) confirmed that the full IFRS adoption for listed firms is substantially associated with positive stock market development. Similarly, Daske (2006), and Zeghal and Mhedhbi (2006) affirmed a positive relationship between capital market and IFRS adoption. So, this paper hypothesizes that capital market development is likely to influence the adoption of IFRS in Africa. Previous research has suggested that financial market development triggers investment decisions and influences IFRS adoption (Bruggermann et al., 2012). This may imply that robust financial market development improves financial services processes, and offers affordability to enhance access to the capital market to give assurance of financial stability.

On this basis, the study hypothesis that a highly developed financial market is likely to cause the African countries to adopt IFRS.

Data and Measurements

This paper seeks to highlight the data collection source, the sample from the population, estimation of variables for measurement, descriptive statistics, and correlation analysis.

Data

This paper pooled macro-economic data from the global competiveness report of the World Bank Indicators (the data include: quality of accounting body, the legal system, quality of national financial accounting standards, the tax incentive for investors, foreign direct investment, domestic capital market, inflation and gross domestic product growth, and financial market development data (measured by availability of financial services, the affordability of financial services, financing through local equity market, ease of access to loans, venture capital market, soundness of banks, regulations of security exchange and legal right). We obtained the data from 38 African countries within the global competitiveness report for the period 2015-2016 and 2017-2018, utilizing the panel binary logistic regression model. The study used 38 African countries (IFRS adopters 21, Non-adopters 17).

Measurement of estimation variables

Table 1 tells us the derivations of both dependent and independent variables, and the sources of obtaining the data for this study. The IFRS serves as a dependent variable, which is dichotomous in that it is either adopted or not adopted by a country. Where a dependent variable serves as dichotomous outcome, no matter the nature of the data, it is suitable to use logistic regression (Gujarati, 2006). More importantly, the cross-sectional dimension (38 countries) of the data far exceeded the time dimension (2-year), making the study cross-sectional dimension biased. Table 1 explains in details the variables employed in the study.

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Variable	macroeconomic	Description/	Source of data
	Variable (s)	measurement	
Dependent	IFRS adoption	Whether the country has	International
variable	(IFRS)	adopted IFRS (coded as	Accounting
		1) and if not (coded as	Standards Board
		0).	
Ind. Variable			
QAB	Quality of	Tertiary education	Global
	accounting body	degree in accounting	Competitiveness
	for country	enrollment rate.	Reports (GCR)
LGS	Legal system	A country with common	GCR
		law (coded as 1) and	
		code law (coded as 0)	
NAS	National	Country uses national	GCR
	accounting	accounting standards	
	system quality		
TIL	Tax rate	Total tax rate	GCR
FDI	Foreign direct	Foreign direct	GCR
	investment	investment and	
		technology transfer	
DCM	Domestic capital	National capital market	GCR
	market dev't	attractiveness	
INF	Inflation	Annual percentage	GCR
		change	
GDP	Gross domestic	Purchasing power parity	GCR
	product	\$ billion	

Table 1(a): definition and explanations of Variables

Table 1 (b): De	Table 1 (b): Descriptions of Variables							
Variable	Financial market development	Explanations of measurements	Source of data					
AFS	Availability of financial services	financial sector products and services for meeting businesses needs	GCR					
AFFS	Affordability of financial services	financial services costs inhibit businesses tasks	GCR					
FLEM	Financing through local equity market	issuing share on capital market to finance	GCR					
EAL	Ease of access of loan	businesses obtaining loans from banks	GCR					

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VCM	Venture capital market	Start-up entrepreneurs for equity funding of risky project	GCR
SBK	Soundness of banks	Businesses perception on soundness of banks	GCR
RSE	Regulation of securities exchange	Extent to which regulators ensure stability of financial market	GCR
LRI	Legal right index	Degree of borrowers and lenders right	GCR

Empirical Method and Analysis

This section addresses the model specification and the unit of analysis of results.

Model specifications

The purpose of the study is under the premise of the macroeconomic and financial market development factors on the IFRS adoption, bearing in mind other control variables in line with Kaya and Kosh (2015), Lasmin (2011), and Zehri and Chouaibi (2013) accepted the logistic regression accordingly. Thus, the probability that a particular African country had adopted IFRS for this specification:

$$P_i = \Pr(y_i = 1) = \frac{e^{X\beta}}{1 + e^{X\beta}}$$

Conversely, the probability that a particular African country has not adopted IFRS is also expressed as:

$$(1-P_i) = \Pr(y_i = 0) = \frac{1}{1+e^{\chi\beta}}$$

Thus, the odds ratio is the ratio of the probability that an African country has adopted IFRS to the probability that an African country has not adopted, written as:

$$\frac{P_i}{1-P_i} = \frac{1+e^{X\beta}}{1+e^{-X\beta}}$$

The logarithm of the ratio P_i and $(1 - P_i)$ is the log-odds ratio and the log-odds ratio is a non-linear function of the explanatory variables. That is:

$$\log \frac{P_i}{1-P_i} = \beta_0 + \sum_{j=1}^k \beta_j x_{ij}$$

Based on the binary logistic model, this study specifies the model for estimating general macroeconomic factors that influence IFRS adoption of African countries as shown in equation 1. The Table 1a explains the variables employed:

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Equation 2 explains the model estimation of objective two of this study that states the extent to which the financial market development factors influence the IFRS adoption of African countries.

Summary Statistics and Correlation Analysis

Descriptive statistics: Macroeconomic factors

Table 2 shows the descriptive statistics of the variables employed for the study. Panel A of Table 2 shows the descriptive in variations forms of the macroeconomic factors. Mean (standard error) value of quality of accounting body measured as tertiary education enrollment rate shows 11.44 (1.18) at a range within 95% confidence interval. The means (standard error) of a common legal system of 0.53 (0.06) is more than African countries with Code legal systems.

Variables	Mean	Std. Err	95% Cor	nf. Interval
Quality of accounting body (QAB)	11.435	1.179	9.085	13.785
Legal system (LGS)	0.533	0.058	0.418	0.649
National accounting system quality(NAS)	0.747	0.050	0.645	0.847
Foreign direct investment (FDI)	3.848	0.086	3.676	4.020
Domestic capital market (DCM)	2.867	0.118	2.631	3.102
Tax incentive for investors (TIL)	3.523	0.066	3.390	3.655
Inflation (INF)	5.788	0.666	4.460	7.116
Gross domestic product (GDP)	3.659	0.182	3.297	4.021

Panel A of Table 2 depicts a mean (standard error) of 0.75 (3.85) the for foreign direct flows, so as mean values of the domestic capital market and tax incentive for investors show 0.75 (0.05) and 3.85 (0.09) respectively. Inflation and gross domestic product have some mean values of 5.788 and 3.659 respectively. It is 95% certainty that the inflation rate and gross domestic product growth in African countries are within the range of 3.30 and 7.116. Panel B of Table 2 presents variation scores of the macroeconomic variables within and across countries. It shows that standard deviation values between countries exceed the standard deviation values within countries. The legal system within the country does not vary, suggesting that a country with a common law or code law system has minimal influence of the switched. Gross domestic product varied more with countries than across countries, an indication that growth paths of African countries have not been smooth given the frequent growth fluctuations exhibits.

Panel B Table 2: Variation of macroeconomic factors within and across countries								
Variables	Std. dev Btn	Std. dev. Within	Min.	Max.				
QAB	10.023	2.041	0	41.2				
LS	0.506	0	0	1				
NAS	0.431	0.082	0	1				
FDI	0.687	0.300	2.2	4.9				
DCM	1.022	0.046	1	5.1				
TIL	0.555	0.170	2.3	5.3				
INF	5.767	1.931	-1.8	23.8				
GDP	1.563	1.990	0.875	7.032				

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Descriptive statistics- Financial Market Development

This study also examines the financial market development impact on IFRS adoption in African countries. Table 3 shows descriptive statistics of the financial market development variables.

Table 3: Descriptive statistics

Variables		Mean	Std. dev	Min.	Max.
Availability of financial	Overall	3.707	0.748	1.9	6.1
services (AFS)	Between		0.693	2.3	5.55
	Within		0.292	2.607	4.807
Affordability of financial	Overall	3.409	0.643	2	5.3
services (AFFS)	Between		0.558	2.3	4.7
	Within		0.329	2.709	4.109
Financing through local	Overall	3.3	0.724	1.6	5.6
equity market (FLEM)	Between		0.667	2.1	5.1
	Within		0.302	1.8	4.8
Ease of access to loans	Overall	2.917	0.689	1.5	5.4
(EAL)	Between		0.501	2.05	3.9
	Within		0.473	1.417	4.417
Venture capital market	Overall	2.473	0.409	1.5	3.4
(VCM)	Between		0.368	1.63	3.3
	Within		0.180	1.923	3.023
Soundness of banks	Overall	4.275	0.851	2	6.4
(SBK)	Between		0.825	2.4	5.95
	Within		0.262	3.375	5.175
Regulation of security	Overall	3.844	0.779	1.9	6.1
exchange (RSE)	Between		0.706	2.25	5.45
	Within		0.335	2.294	5.394
Legal right index (LRI)	Overall	4.867	2.219	1	11
	Between		2.126	1	11
	Within		0.652	2.367	7.367

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Table 4 shows that standard deviation scores of all the financial market development variables varied more across African countries, except the legal right index. This shows that African countries are widely different in terms of financial market development. The legal right index varied more within countries than across the African countries.

Correlation Matrix

Pearson's correlation matrix (Panel A Table 4) among macroeconomic variables is a positive correlation with IFRS adoption. The low adoption of IFRS in African countries is attributed to an improved quality of accounting body and a fall in the quality of the accounting body quality increases the likelihood of adopting IFRS in African countries. Table 4 shows that the correlations are both positive and negative to range from 0.111 to 0.653 and, from -0.065 to -0.196 respectively.

Pearson correlation matrix presented in Panel B of Table 4 indicates that financial market development factors do not show any correlations. This is because no coefficients are greater than 0.7 (r for all < 0.7), suggesting that there is no problem of multicollinearity present in the data set. The venture capital market (VCM) exhibits a weak negative correlation with IFRS adoption in African countries.

	IFRS	QAB	LGS	NAS	FDI	DCM	TIL	INF	GDP
IFRS	1.000								
QAB	-0.065	1.000							
LGS	0.598	-0.172	1.000						
NAS	0.209	0.205	- 0.053	1.000					
FDI	0.653	-0.196	0.298	0.248	1.000				
DCM	0.144	0.372	- 0.123	0.575	0.086	1.000			
TIL	0.331	0.414	0.332	0.168	0.303	0.088	1.000		
INF	0.251	-0.174	0.241	0.126	0.060	0.174	0.032	1.000	
GDP	0.111	0.358	- 0.142	0.571	0.092	0.484	0.068	0.162	1.000

Panel A Table 4: Correlation matrix: macroeconomic factors and IFRS

	IFRS	AFS	AFFS	FLEM	EAL	VCM	SBK	RSE	LRI
IFRS	1.000								
AVS	0.455	1.000							
AFFS	0.311	0.573	1.000						
FLEM	0.316	0.429	0.605	1.000					
EAL	0.101	0.558	0.404	0.568	1.000				
VCM	- 0.053	0.522	0.568	0.547	0.709	1.000			
SBK	0.252	0.609	0.569	0.625	0.525	0.513	1.000		
RSE	0.484	0.608	0.661	0.567	0.567	0.469	0.689	1.000	
LRI	0.285	0.235	0.133	0.243	0.214	0.108	0.161	0.269	1.000

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Panel B Table 4 Correlation matrix: financial market development and IFRS

Analysis of Regression Results

This paper focused on the macroeconomic and financial market development factors' effects on the IFRS adoption of African countries. Using the panel binary logistic regressions, the paper reported on both odd ratios and the marginal effect of the results. This study demonstrated that the common law positively impacts IFRS adoption, showing an odd ratio value of 4094.54, indicating a higher likelihood of adopting IFRS than the code law countries. This finding is consistent with Kolsi and Zehri (2013) and Ben Salem et al. (2017). On the relationship between countries with weak national accounting standards and IFRS adoption, this paper demonstrated a higher odd ratio value of 664.68, indicating a strong aversion to adopting new quality standards, confirming Jermakowics and Epstein's (2010) findings. Generally, most African countries do not possess acumen skills for the development of quality standards, having obsolete accounting standards. This therefore necessitates the majority of them to embrace the IFRS adoption (World Bank, 2004).

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Variables	Dy/dx	Odds ratio	Std. err	Z	p-value	95% Cor	nf. Interval
QAB	0.009	1.162	0.119	1.47	0.140	0.951	1.423
LGS	0.468	4094.542	13349.08	2.55	0.011	6.872	2439514
NAS	0.366	664.682	2093.603	2.06	0.039	1.377	320828.7
FDI	0.366	1175.042	3155.619	2.63	0.008	6.083	226979.5
DCM	0.942	1.82e+07	1.40e+08	2.18	0.030	5.249	6.33e+13
TIL	-0.068	0.297	0.393	-0.92	0.359	0.022	3.962721
INF	0.007	1.130	0.118	1.17	0.242	0.921	1.388181
GDP	0.649	9.89e-07	0.00005	2.19	0.029	3.25e-10	0.3008
Constant		4.16e-18	6.26e-17	-2.66	0.008	6.65e-31	0.000026
Ν		76					
LR Ch ² (8)		77.17					
prob>chi ²		0.000					
Pseudo R ²		0.7470					
Log		-13.07158					
likelihood							

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Table 5: Logistic regression results: General macroeconomic factors and IFRS Adoption in Africa

There are higher odds ratio values for foreign direct investment (1175), capital market development (1.80e), and gross domestic product (9.98e-06) of adopting IFRS, compared with countries with lower odd ratio values. Studies on foreign direct investment and IFRS adoption have shown positive relationships among the developing countries (Phuong and Nguyen, 2012; Akpome and Nnadi, 2017). This presupposes that African countries with huge fixed direct investment flows adopt the IFRS, compared to countries with less fixed direct investment inflows. It is also the belief that the attractiveness of capital markets of Africa tends to put pressure on African governments to adopt IFRS to facilitate comparability and transparency of financial information (Jermakowich and Tomaszewski, 2006; Prochazka and Pelak, 2015; and Kossentini and Othman 2014). Furthermore, it is evidenced that an increase in fixed investment and capital market development causes growth in the GDP within countries (Felski, 2015; Judge et al., 2010). The marginal effect results revealed a higher likelihood of adopting IFRS for the FDI, capital market development, and the GDP by 0.366, 0.942, and 0.649 respectively (see Table 5). Contrary, the tax rate, inflation rate, and quality of the accounting body are not influenced by the likelihood of the IFRS adoption in the African countries. Again it is found that the macroeconomic factors accounted for 74.7% of the variation in the IFRS adoption of African countries.

Table 6 shows that African countries of developed financial services have a higher likelihood ratio of 38.895 at 1 % significantly to switch to the IFRS. These findings support prior extant studies, that the availability of financial service exhibits a better likelihood of IFRS adoption (Bruggermann et al., 2012) by nations. Also, further empirical results show that African nations of developed venture capital markets, strong soundness of banking activities, and effective regulation of security exchange benefit form a higher likelihood of adopting IFRS comparatively. Generally, the results evidenced an odd ratio values of 0.020, 0.061 and, 44.41 for venture capital market, soundness of banks, and regulation of security exchange benefit respectively, that is indicating a higher likelihood of adopting IFRS. These

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findings suggest that IFRS-adopting African countries are heavily depended on financial market development activities.

Tuble 0. Logistic regi	2551011125	unto innument		acverop			
Variables	Dy/dx	Odds ratio	Std.err	Z	p-value	95% Coi	nf. Interval
AFS	0.009	38.895	58.499	2.43	0.015	2.040	741.527
AFFS	0.059	1.713	2.614	0.35	0.724	0.086	34.089
FLEM	-0.044	0.668	0.807	-0.33	0.738	0.063	7.128
EAL	-0.135	0.289	0.279	-1.29	0.199	0.044	1.919
VCM	0.425	0.020	0.037	2.15	0.031	0.0058	0.7029
SBK	0.306	0.061	0.069	2.47	0.014	0.007	0.560
RSE	0.413	44.410	63.054	2.67	0.008	2.748	717.818
LRI	0.025	1.255	0.223	1.28	0.201	0.886	1.779
Constant		0.020	0.0637	-1.23	0.219	0.0004	10.213
Number of obs.	76						
LR Ch ² (8)	51.26						
Prob>chi ²							
Pseudo R ²	0.000						
Log likelihood	0.4962						
	-26.028						

Table 6: Logistic regression results -Financial market development and IFRS adoption in Africa

Variables

Du/du

Odds ratio

Std arr

To a public

Du/du

Odds ratio

Std arr

To a public

Du/du

Odds ratio

Std arr

To a public

Du/du

Du/du

To a public

Du/du

<

Overall, a unit increase in the venture capital market, soundness of banks, and regulation of security exchange reveal values 0.425, 0.306, and 0.413. The main conclusion is that the financial market development factors exhibit a strong association with the adoption of IFRS in African countries at both 1% and 5% statistical levels. The following variables: financing through the local equity market, legal right index, and access to loans results achieved a negative impact on the adoption of IFRS in the African continent

Discussion and Conclusions

The literature on IFRS adoption concerning financial sector development and the IFRS in the African continent has been scanty, but much research is done with the macroeconomic factors, even though financial sector development does not matter. Decision usefulness theory is applied to underpin this study in examining the relationship between the IFRS of accounting numbers and macroeconomic and financial markets determinants. The study employed both theoretical and empirical literature to establish the hypotheses to position the objectives of the study. The study used a sample of 38 African countries (20 IFRS adopters, 18 non-adopters). The logistic regression estimation model is employed, with data from the Global Competitiveness Report of the World Economic Forum (WEF) of the World Development Indicators.

The paper, therefore, concludes that the quality of national accounting standards influence the adoption of IFRS and that common law countries adopt IFRS easily, compared to the coded law nations. In a similar vein, the FDI inflows, the domestic capital market development, the GDP size, and determinants of financial market development affirmatively influence IFRS adoption in African

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countries in minimal ways. This has critical implications for non-adopters of IFRS to put measures in place to switch to the new standards, in compliance with the global accounting standards pathway. Another revealing outcome is the fact that some macroeconomic factors exhibited positive significance on the IFRS, amid skeptical opinion that institutional quality is more or less compromised in Africa. The empirical findings also suggest that the financial market development of Africa is critical and consistently exhibiting significant impact on the IFRS adoption. Indeed, this finding is not surprising considering the more or less resilient bank-oriented economy of African countries, and the more resources deployed into the financial environment. These findings are cautiously not to be generalized to other emerging economies due to differences in both financial market operations and macroeconomic factors (Orlova, 2020; Wang and Esqueda, 2014).

The study recommends that standard-setters ought to assist non-adopters in Africa by assessing their current situations in supporting to switch for IFRS adoption. Our results are encouraging the stakeholders of IFRS to corroborate with the government to render assistance on training and education that promotes the adoption of IFRS. Our results assert that sound macroeconomic fundamentals like developed capital markets drive economic growth with the subsequent attraction of more foreign investors, and more foreign direct inflows thereby enhancing the adoption of IFRS in African countries. Because of the outcome of the results and considering the economic benefits of adopters, policymakers should off-lead their attention and policies to invest more in the standards settings as well as providing subsidized and quality education to help the non-adopters. We envisage a more enriching study of the data that considers comparative Asian economies on the topic.

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Appendix 1: Adopters and Non-adopters of IFRS

Table1: Study Population: IFRS adopters and Non-IFRS Adopters **IFRS** adopters Non-IFRS adopter

Ghana, Nigeria, South Africa, Sierra	Algeria, Angola, Cameroom, Chad,
Leone, Kenya, Zimbabwe, Tunisia,	Cote D'Ivoire, Democratic Republic
Namibia, Botswana, Libya, Lesotho,	of Congo, Egypt, Equatorial Guinea,
Malawi, Mauritius, Morocco,	Gabon, Guinea Conakry, Democratic
Mozambique Swaziland, Tanzania,	Republic of Congo, Senegal,
Uganda, Rwanda, Zambia,	Ethiopia, Madagascar, Mauritania,
	Seychelles