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# DETERMINANTS OF SURVIVAL OF LISTED DEPOSIT MONEY BANKS IN NIGERIA

# Yunusa Abdulateef<sup>1</sup> Oyindamola Ekundayo<sup>2</sup> Obidu Queen Mizita<sup>3</sup>

1,2 Department of Accounting, Faculty of Management Sciences, Federal University, Dutsin-ma. 3 Bursary Unit, Federal University, Dutsin-ma.

**ABSTRACT**: In the business world, stakeholders are subject to several risks on investment including losing their venture. The existence of a healthy corporate structure is vital to the pursuit of the going concern objective of firms. This study investigates determinants of listed Deposit Money Banks' (DMBs) survival in Nigeria. The sixteen listed DMBs in Nigeria as at December 2017 were used as the population and fifteen were sampled by applying a judgemental sampling technique. The study adopted descriptive and ex-post facto research design. The Emerging Market score (EM score) model was applied in the prediction of going concern status of sampled DMBs. The data used were obtained from the annual reports and accounts of the DMBs for 2007 to 2017 accounting periods. The data were analysed using Robust GLS Regression model. The study found that there is a positive and significant impact of liquidity, leverage, profitability, solvency and asset management on DMBs' going concern (GC). This implies that, any increase in these determinants would lead to increase in GC of DMBs. With the adjusted  $r^2$  of 0.98 and F-value significance at 0.000 from the model used in the study, the study concludes that the independent variables in the EM score model are relevant in determining the GC of DMBs. It is highly recommended that DMBs should enhance their survival status (EM score of 5.48) by improving on their liquidity, profitability, solvency, leverage and asset management ratios to solidify their GC status.

**KEYWORDS:** Asset Management, EMscore, Leverage, Liquidity, Profitability, Solvency, Share Price

# **INTRODUCTION**

Stakeholders are subject to several risks on investment including losing their investment. Investment decisions are quite pivotal for fruitful investors, making them to employ different techniques for portfolio analysis and decision. The Altman Emerging Market score (EM score) is a widely-used model by stakeholders that employs a formula capable of predicting the probability of business survival. Examining firms' going concern status and its determinants is necessary because the collapse of a company would not only affect the shareholders but all its stakeholders including the economy as a whole. The term 'going concern' simply implies the basic declaration of business intention to keep running its activities without the threat of liquidation or bankruptcy for the foreseeable future at least for one year. This is a basic assumption to preparing financial statements considering the conceptual framework of the International Financial Reporting Standards (IFRS). This study was anchored on the fact that Profitability, Solvency, Liquidity, Leverage and Assets Management would influence going concern of listed firms in Nigeria. This is because a firm survives when it makes a stable profit, meets up with obligations as at when due, is effective in debt, equity and dividends decisions and possesses the ability to utilise its assets efficiently with the vision of growing the market value of its shares as well as meeting other stakeholders' interest.

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DMBs in Nigeria are a highly regulated sector of the Nigerian economy because of its cardinal function of mobilizing funds from surplus unit to deficit unit of the economy. This may suggest massive investment in the industry and call for a constant examination of their activities by stakeholders to make an informed judgement. Over the years, DMBs had been facing issues of incessant non-performing loan, inability to meet customer called money at and when demanded, unstable market share price among others (Soludo, 2007).

The study on DMBs was motivated by series of banking reforms in Nigeria. The reforms are an integral part of the country-wide reform programs undertaken to reposition the Nigerian Economy to achieve the objective of macroeconomic goals of price stability, full employment, high economic growth and internal and external balances. As part of the vision, the banking sector is expected to effectively play its actual role in intermediation and for the banks to be among global players in the international financial markets. These reforms includes; The 2004 reform on consolidation programme, as a result, banks were consolidated through mergers and acquisitions, raising the capital base from N2 billion to a minimum of N25 billion, that lead to a reduction banks from 89 to 25 in 2005, later to 24 in 2007 and to 16 in 2017 listed on the floor of Nigerian stock exchange.

Similarly, the regulatory reforms that focused on Risk-focused and rule-based regulatory framework; Zero tolerance in regulatory framework in data/information reporting and infringements; Strict compliance of corporate governance codes in banking; Speedy process for delivery of returns by banks through e-FASS; Review and acquainting of relevant laws for effective corporate governance and safeguarding greater transparency and accountability in the execution of banking regulations among others target.

The establishment of Asset Management Corporation of Nigeria (AMCON) in 2010 intended at addressing the issues of non-performing loans in the Nigerian banking industry, among others. In consonant with its objectives, AMCON had acquired the non-performing risk assets of some banks worth over N1.7 trillion, this was expected to boost the bank's liquidity hence, enhance their safety and soundness. With AMCON involvement, the banking industry ratio of non-performing loans to total credit has significantly reduced from 34.4 per cent in November 2010 to 4.95 per cent in 2011.

To further stimulate public confidence and customer protection in the banking system, the CBN created the Consumer and Financial Protection Division to provide an avenue through which consumers can seek out redress. In the first three months of its operation, the Division received over 600 consumer complaints, which was a display of non-effective consumer complaints resolution mechanism in the banks. The CBN had directed banks to establish Customer Help Desks in all their branches and head offices.

In addition, the CBN has begun an all-inclusive review of the Guide to Bank Charges with a view to making the charges consumer friendly. Also, CBN integrates the banking system into global best practice in financial reporting and disclosure through the adoption of the International Financial Reporting Standards (IFRS) in the Nigerian banking sector effective 2012. This had help to enhance market discipline, and reduce reservations, which limit the risk of unjustified contagion

The Bank recently introduced a new policy "Cash less Policy" as part of ongoing reforms to address currency management challenges in Nigeria, as well as enhance the national payments system. It is obvious that the Nigerian economy is severely cash-oriented in business transactions. This huge cash transaction increases the operational costs, which is then passed on to the customers in the form of higher lending rates or service charges. These operational costs are significant due to the high cost

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incurred in cash management, currency sorting, cash movements and frequent printing of currency notes among others (Sanusi, 2012). All these reforms are tailored toward achieving and maintaining stakeholders' interest, hence cushion survival of deposit money banks in Nigeria.

The importance of Z score has been underscored by a number of studies in different sectors and countries such as telecommunications (Permatasari, 2006), wood industry (Muhammad, 2008), industrial Firms in Jordan (Al- Rawi, Kiani, & Rishma, 2008), automobile industry in India (Ray, 2011), banking sector in Indian (Pradhan, 2014), private company in the UK (Abdulkareem, 2015), trading sector in Sri Lanka (Niresh, & Pratheepan 2015), general partnership, limited partnership, private limited company, a joint-stock company in Slovakia (Boda and Uradnicek, 2016), manufacturing company in Indonesia (Kurniawati, 2017) among others. In all these locations, it was found that the respective industries had different survival status. The studies thus attest that Altman model of EM score provides the basis for predicting financial distress or otherwise of an entity.

From the relevant literature reviewed, it is deduced that there are paucity of study in Nigeria that focused specifically on DMBs, the scope of the studies is less than ten years, commonly used method is ratio analysis with Microsoft Excel to compute the EMscore, while interpretations are made and conclusions drawn in line with the coefficient zones of discrimination of Altman Z-score without any tests for validity and reliability. This makes the findings from the studies to be unreliable and difficult to generalize. This study harmonizes and contributes to the literature by studying the entire listed DMBs for a period of eleven years, formulating a multiple regression model to include three moderating variables. It employed descriptive, correlation and regression statistical tools of analysis and carried out the diagnostic test for data normality with the aid of STATA package to enhance validity and reliability of results that would aid generalization in the industry of study.

The objective of this study is to examine the determinants of survival of listed DMBs in Nigeria while specifically, to examine the Altman Emerging Market score (EM score) model as a measure of survival of listed DMBs in Nigeria. To achieve the stated objectives, the study formulates hypotheses in a null form that Liquidity, Profitability, Leverage, Solvency and Asset management have no significant influence on the survival of listed DMBs in Nigeria. The paper is divided into five sections. Section one deals with introduction, section two dwells on literature review, section three presents methodology, section four deals with result & discussion and section five gives conclusion & recommendation.

# LITERATURE REVIEW

# **Conceptual Review**

According to Cefis & Marsili (2012), survival refers to the ability of firms not to close their operations temporarily or permanently. A firm survives as long as it acquires inputs from suppliers, processes them and provides outputs to stakeholders. A firm fails when resource providers cannot be persuaded to supply resources and the firm cannot meet both short-term and long-term obligations to its stakeholders. Firm survival depends on numerous factors, both external and internal. According to Timothy (1991) as cited in Odibi, Basit, & Hassan (2015), bankruptcy is a legal proceeding in which an individual is unable to pay their bills petition. It is a lawful process whereby an illiquid corporation or individual is dismissed of total liabilities for its obligations by making a court permit arrangement for their partial settlement.

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# **Concept of Deposit Money Banks**

Deposit money banks which are also known as commercial banks are financial institutions certified by the regulatory authority to mobilize deposits from the surplus units of the economy and channelling the funds through loans to the deficit units while performing other financial service activities such as accepting deposits, giving business loans and revolving loans, mortgage lending, and basic investment products like savings accounts and certificates of activities deposit. DMBs are resident depository corporations and quasi-corporations which had liabilities in the form of deposits payable on demand, transferable by cheque or otherwise usable for making payments (Uzowanne, 2015).

According to Sanusi (2012), DMBs act as financial intermediaries to channel savers' money to firms and individuals who strive for funding. Their importance as a substance to economic growth and development is commonly accepted by both monetary and development economists. In performing these roles, deposit money banks realizes that they have the potentials and prospects of mobilizing financial resources and allocating them to productive investments and, hence, promote sustainable performance and ensures that economic activities are prosperous and flourishing.

# **Determinants of Firm's Survival**

Babajide, Olokoyo & Adegboye (2012) examined Predicting Bank Failure in Nigeria Using Survival Analysis Approach. The study used Hazard ratios estimated from Cox regression, the result shows that the survival of banks in Nigeria is most strongly influenced by 10 predictor variables (one reform levels which is used as treatment for the survival of banks in the equation and nine financial ratios) used for the survival analysis. The reform variable is categorize into three periods, the period before the 2004 reform, the 2004 bank consolidation reform and the 2009 financial reform respectively. The Nine (9) influential financial ratio variables are total loan to total asset of the banks (TLTA), long term liability to total bank asset (LTLTA), total bank deposit to total asset(TBDTA), net income to average total asset (ROA), operating expenses to average total asset (OEATA), shareholders' funds to average total asset (SFATA), non-performing loan to average total asset (NPLATA), non-performing loan to total loan and advance plus lease (NPLATLL), total loan and advance to total deposit (TLATD).

Several empirical studies such as Helmers and Rogers (2010) evaluated the factors that influence the likelihood of firm survival. These factors include firm level, location level, environmental level, market level, innovation, diversification, firm size, research and development activities, human capital and productivity. On the other hand, Biswas (2014) and Rahman and Islam (2018) employed CAMEL for evaluating and predicting banks survival which stands for Capital Adequacy, Asset Quality, Management Efficiency, Earnings Quality and Liquidity Management.

Similarly, Agusto & Co. (1995) bank rating is a current (short term) assessment of the financial condition of banks and the ability to meet its obligations to depositors as and when due. The company made used of Key indicators of financial condition such as profitability, quality of earnings, liquidity, asset quality, capital adequacy and market position over the latest five years. The Agustos' (1995) model for financial condition= IND (10%) + ASTQLT (20%) + CAPADQ (10%) + EAR (10%) + LIQ (15%) + MKTSH (10%) + OWNMGT&STF (25%).

There are two venerable models for assessing the distress of industrial corporations according to Altman (2000). These are the so-called Z-score model (1968) and Emerging Market Score 2005) model. The Z-score is usable in the manufacturing sector while the emerging market score applies for non-manufacturing firms. The EM score encompasses Profitability, Solvency, Liquidity, Operating

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Efficiency and Assets Management as discriminate factors between failed and successful Banks. From the above, this study focused on Profitability, Solvency, Liquidity, Leverage and Asset Management as factors that influence going concern of listed DMBs in Nigeria as used by Sanja, Mirela & Stevan (2014) and Meeampol, Lerskullawat, Wongsorntham Srinammuang, Rodpetch & Noonoi (2014).

From these determinants, the liquidity ratio states a company's capacity to repay short-term creditors out of its total cash. The higher the current ratio, the more capable a firm is by settling its obligations. The retained earnings of a company are the percentage of net earnings not paid out as dividends; but to be reinvested in the firm or pay outstanding debts. The ratio of retained earnings to total assets supports a measure to the extent to which a company relies on debt or leverage. The lower the ratio, the more a company is funding its assets by borrowing instead of through retained earnings, which, again, increases the risk of bankruptcy if the firm cannot meet its debt obligations. The ratio of total liability and value equity includes both common stock and preferred stock. The higher the ratio, the better the financial management. Assets efficiently. Therefore, DMBs are to keep all variables high in the ratio in order to prevent bankruptcy. Finally, it can be argued that the model offers insight into measuring the combined financial situation of a firm, a device for stakeholders that could be used to monitor the security of their investments.

# **Theoretical Framework**

The theoretical framework upon which this study is been anchored is the bankruptcy and stakeholder theories. The theories are a subset of positive accounting theory that deals with why and what is happening in the field of accounting. These are adopted to ascertain the determinants of going concern and predicting the financial health of DMBS. Bankruptcy predictions were based on accounting ratios of Profitability, Solvency, Liquidity, Assets Management and other financial variables. Linear discriminate analysis (LDA) was the first statistical method applied to systematically explain which firms were bankrupt or survived. One of the classic works in the area of ratio analysis and bankruptcy classification was performed by Beaver (1967). The study found out that a number of indicators such as Profitability, Solvency, Liquidity, Operating Efficiency and Assets Management could discriminate between matched samples of failed and non-failed firms. The results were used to explain empirical observations of Beaver on the power of various financial ratios to predict the failure of firms.

The emerging market score model portrays interest of stakeholders such as creditors, management, investors, shareholders, and analyst. This because of their interests are caption as Profitability, Solvency, Liquidity, leverage and Assets Management. Hence, this study introduces control variables such as firms' share value, age, and size as factors capable of defining firms' survival or bankruptcy potentials.

# **Empirical Literature**

There are several studies such as Meeampol et al. (2014), Sajjan (2016), Salim and Sudiono (2017), Suci (2017), Hariyani and Sujianto (2017) concentrated on determining the bankruptcy and survival of firms across the globe. These studies adopted different models in predicting the financial health of an entity and come up with different findings from different sectors and countries. Such studies include:

Syamni, Majid and Siregar (2018) explored the usefulness of the Springate (1978), Ohlson (1980), Zmijewski (1983) Altman Modification (2000) and Grover (2001) models for predicting bankruptcy of the 19 coal mining companies. It also attempted to measure the effects of the scores of these

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bankruptcy prediction models on the stock prices of the coal mining companies in Indonesia. The technique of analysis employed in the study was OLS panel regression. The results of the study showed that the bankruptcy prediction scores of the Ohlson (1980) and Altman Modification (2000) were found to be the dominant prediction models that affected the stock prices of the coal companies in Indonesia. This indicates that the bankruptcy prediction model can be used as one of the approaches to measure the movement of stock prices and performance of the coal mining companies in Indonesia.

Pakdaman (2018) investigated the significance of Altman (2000), Springate (1978), Zmijewski (1983) and Grover (2001) bankruptcy models in predicting survival of firms on the Tehran Stock Exchange; they compared the results of the models and concluded that, the models had a better ability to predict corporate financial crises. The statistical population of the study was 35 companies from textile and ceramic tile companies listed on the Tehran Stock Exchange between 2011 and 2016. The study found that among the high bankruptcy models using Model Determination Coefficient R<sup>2</sup>, Grover (2001) was ranked first with 0.98 R<sup>2</sup>, Altman second with 0.92 R<sup>2</sup>, Springate (1978) third with 0.84 R<sup>2</sup> and Zmijewski (1983) fourth with 0.09 R<sup>2</sup>. The study concluded that Altman (2000), Springate (1978), Zmijewski (1983) and Grover (2001) bankruptcy models are able to predict financial crises.

Rahman and Islam (2018) evaluated and compared the performance of firms in the banking sector in Bangladesh. One of the most effective supervisory techniques, CAMELS rating system was used to rank the banks based on their performances. In the study, seventeen conventional private commercial banks were chosen as samples to meet the purpose of the study. Data for analysis was collected from the banks' annual reports for the period (2010-2016). The result from this comparative analysis showed that Eastern Bank has stood at the top position among all the selected banks based on CAMEL rating system.

Ganga and Christian (2017) compared two forensic accounting tools the Beneish M-score and the Altman Z-score models for the effective detection of fraud in corporate bodies in Japan. Using a data set from Toshiba's published corporate financial statements from 2008 to 2014, analyses were made with the primary intent of detecting malfeasance using the two models. The study opined that frauds usually led to bankruptcy of firms. The results of the study do not indicate Beneish model efficacy in spite of its popularity in predicting fraudulent financial statements. Whereas, the Altman Z-score provided some indication that the company's financial statements were flawed. The study concluded that selecting the right forensic tool can influence the outcome of fraud detection, hence, bankruptcy status of an entity. The outcome of the study provides useful direction to investors, financial auditors, and forensic auditors when making policy decisions. Maija (2017) evaluated the best method to predict possible future financial distress between multivariate EMscore and logistic regression for Finnish companies, post-financial crises. The study data for 2011-2015 was collected randomly on 10 bankrupt companies, ranging from manufacturing, travel and advertising industries and were analysed and tested using SPSS. The study found that the models gave very similar results, with both of them having the percentage of correct predictions around 50-60%, with the exception of the training sample of the logistic model, which gives the prediction rate of 72%.

Salim and Sudiono (2017) determined the bankruptcy possibility of Coal Mining Companies listed in Indonesia Stock Exchange. The study employed Altman Model (Z-score), Springate Model (S-Score) and Zmijewski Model (X-Score) approaches. The study used purposive sampling technique to select 19 firms out of 22 companies as population of the study. The study was a desk research for a period from 2011 - 2014. The result of the study showed that Zmijewski Model is the most accurate predictive model that can be applied to coal mining companies listed on the Indonesia Stock Exchange

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because the model provides the highest level of accuracy as compared to other predictive models that are equal to 78.95%, followed by Springate Model with an accuracy rate of 47.37%, with the least being Altman Model with 5.26%.

Suci (2017) analysed the financial distress of 125 manufacturing companies in Indonesia using Altman Z-Score model in 2013 and 2014. The study employed historical research design. The findings of the study are not consistent or even in accordance with the reality which shows that the Altman method cannot be used as a tool to indicate a tendency towards company's financial distress. Whereas, Sajjan (2016) investigates the applicability of the Altman's bankruptcy model to examine the financial soundness of manufacturing & non-manufacturing firms in India. The study covers six listed companies in BSE & NSE for a period from 2011 to 2015. The study reveals that many of the companies completely belong to the Safe Zone except for a few years. Most of the firms are in Distress Zone which clearly indicates that these firms may go bankrupt in the near future. The study recommended top level management to design effective strategies for better control & management of resources. This may result in a win-win situation for both management and investors.

Hariyani and Sujianto (2017) examined empirical evidence that the Altman, Springate and Zmijewski model is the most appropriate model for predicting bankruptcy of Islamic Banks listed on the Indonesia Stock Exchange. This study used secondary data from the financial statements of Islamic banks in 2010-2014. The study tested the hypotheses by using normality test, homogeneity test, and one-way ANOVA test. The results showed that Springate model is the most appropriate model in predicting the Islamic banks in Indonesia with an accuracy of 38, Model Zmijewski with 28.00 % accuracy rate and Model Altman with an accuracy of 0.00.

Martin and Vladimir (2016) challenged the widespread use of Altman's bankruptcy Z-score model by investigating its usability in the Slovak economic environment. The verification juxtaposes three variants of the Z-score model and assesses their prediction ability using a data set of Slovak enterprises for the period from 2009 to 2013. Both the original 1968 Z-score model and the revised 1983 Z-score devised for the US economic environment are compared with the Z-score model re-estimated to the Slovak data adopting the methodological procedure of Altman. The results indicate that Altman's bankruptcy formula is portable into the Slovak economic conditions and useful for predicting financial difficulties. Altman's original and revised formulation of the model are preferable if overall classification accuracy is the main interest. The study recommends re-estimation of the coefficients of the model if financially distressed enterprises are the focus and the goal is to classify distressed enterprises as best as possible.

Mohammed (2016) assessed the financial health of firms in Oman. The study sampled Rysut Cement Company and its four subsidiaries for the period from 2007 to 2014. The study applied descriptive research design and obtained secondary data from the published annual reports. The study revealed that Rysut Cement Company and its subsidiaries were financially sound as they had higher Z score than the benchmark (2.99) for five years and faced challenges of distress for three years. The distress period was corrected by debt restructuring and assets and liquidity management. The study concluded that the findings of the study could be useful for the managers to take a financial decision, the stockholders to choose investment options and others to look after their interest in the concerned cement manufacturers of the country. It recommended that Altman Z score model is adopted as an appropriate model in assessing the going concern of firms.

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Odibi, Basit, and Hassan (2015) examined the reliability and relationship of Altman' Z-score model to corporate survival. A sample of 34 public listed manufacturing companies in the Kuala Lumpur Stock Exchange (KLSE) known as Bursa Malaysia were used from 2010-2014. The Study found that four out of five financial ratios were significantly related to the prediction of corporate failure using the Z-score model. The study opined that multiple discriminant analysis seems to be the best model that achieves a very high result of accuracy levels. Also, the regression analysis showed that the model is a great fit with the significance of 0.000 and accuracy levels of 86% and 99.6%. Ilahi, Jamil, Kazmi, Ilahi, and Lodhi (2015) explored commercial banks' financial difficulties. The study data was collected from commercial banks listed on Karachi Stock Exchange for the period 2009 to 2013. The study found that all commercial banks in this model were in monetary trouble but in fact, they were operating successfully. The study concluded the Z score model is unable to predict bankruptcy of Commercial Banks.

Meeampol et al. (2014) analysed prediction of business bankruptcy by applying the Z- score model and EM score model on companies listed in the Stock Exchange of Thailand. The study found out that both models can predict possible bankruptcy and were more effective when two years of information were used compared to one year. The EMscore model achieved 89.66% (2010) and 80.77% (2011), while the Z-Score model achieved 75.86% (2010) and 46.15% (2011) prediction accuracy when it is applied to forecast bankruptcies on the sample used. The study opined that liquidity ratio, retained earnings, capital efficiency and operating efficiency are most significant in bankruptcy prediction for the Stock Exchange of Thailand. Vikas (2014) investigated the financial health of logistics industry in India based on Z score analysis for the period from 2005 to 2010. The study employed ex-post facto research design for a population of 35 firms out of which 20 firms were sampled randomly. The study revealed that Indian logistic industry was a healthy industry. The average Z score value increased from 2006 to 2010 (2.54 to 3.01) when the Indian economy was hit by global recession. This indicated healthy performance of the Indian logistics industry. The study concluded that the overall performance of Indian logistics industry was good and recommended that Indian logistics industry was a good industry for potential investors to invest in.

Biswas (2014) evaluated the performance of two public sector banks viz., Andhra Bank and Bank of Maharashtra in India using CAMEL model. The study adopted an analytical and descriptive research design on sampled banks for a period of 2011-2013 which were collected from the annual reports of the banks. The study found that Andhra Bank dominated in Management Efficiency and Earning Quality. However in the area of Assets Quality & Liquidity, Bank of Maharashtra dominated over Andhra Bank. Both banks were on par with respect to the Cash Adequacy Ratio. Ray (2011) investigated the financial health and tested whether Altman's Z score model can correctly foresee the corporate financial distress of 62 sampled Automobile companies listed on the Bombay Stock Exchange in India. Secondary data used covered a period of 2004 to 2010. The study found that the Z values for all the seven years were more than 1.81 and observed gradual decline from 2007-08 after the global recession hit the Indian economy in general and automobile industry in particular. Similarly, it was found that the overall financial performance of the sampled industry was at grey level and opined that the position may lead to corporate bankruptcy in the near future except effective measures were put in place.

Fadare (2011) studied the determinants of Banking Sector liquidity and Financial Crisis in Nigeria from 1980 to 2009. The study employed a linear least square model and time series data on sampled DMBs. The study found that liquidity ratio is significant for predicting financial crisis in Banking Sector. The result suggests that during periods of financial crises, DMBs are significantly illiquid as

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compared to standards, and opined that getting liquidity policies correct during crisis is crucial in ensuring the survival of the DMBs.

Mwendamo (2010) ascertained whether Altman's Z-score (2000) can assist South African auditors to more accurately assess the appropriateness of management's use of the going concern assumption in the preparation of financial statements. This was done by applying two corporate failure prediction models developed by Altman (200) to South African listed companies. The study compared the predictive accuracy of the two models against each other and against auditors' actual going concern decisions. The study found that the EMscore is quite accurate in predicting failure for companies that eventually fail (delisted and liquidated or in the process of being liquidated) and opined that the auditor could have made more accurate going concern judgment decisions.

# **METHODOLOGY**

This paper adopted descriptive and ex-post facto research designs. The population of this study are made up of the sixteen listed DMBs in Nigeria as at December 2017 (see appendix a). Fifteen DMBs were sampled based on the fact that Jaiz Bank PLC listed in 2017 had no complete data for the period under study.

# Sources of Data and Sample Size

Fifteen DMBs constituted the sample size for the study. The data of the selected DMBs for the years used in this study (2007-2017) were sourced from the published annual reports of the DMBs. Robust GLS Multiple Regression analysis were employed for a balanced panel data for the study. This is because, it ease diagnostic test to be conducted and any anomaly would be corrected scientifically to enhance reliability of outcome. The balanced panel data analysis would make an adequate basis for generalization and conclusion of findings in the area of study.

Table I         Variable Definition and Measurement							
Conceptual	Conceptual Functioning Definition						
Description	_	Expectation					
GC=EM Score	EM = 6.56X1 + 3.26X2 + 6.72X3 + 1.05X4 + 3.25	Healthy and					
Model	Survival status of firms. As used by Sanja, Mirela &	sound					
(Dependent	Stevan (2014). A score value of below 1.1 indicates	performance					
Variable)	weak performance/distress zone; 1.1-2.6 indicates grey						
	zone and above 2.6 indicates safe zone/sound						
	performance						
Independent Variables							
Working	Liquidity proxy. The ability of a firm to pay its short-	Significant					
Capital/Total	term obligations as at when due. The lower the value	positive impact					
Assets	the higher the chance of bankruptcy; that is, the higher	on going concern					
	the threat to going concern.						
Retained	Leverage proxy. Explains firms' ability to pay a	Significant					
Earnings/Total	dividend or re-invest in the lucrative venture. A high	positive impact					
Equity	ratio indicates that growth may be sustainable as it is	on going concern					
	not fully financed by debt.						

# **Measurement of Variables**

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EBIT/Total Assets	Profitability proxy. The earning power of a firm's assets. An increasing ratio indicates the company is able to utilize its assets for earnings and increasing return on assets investment.	Significant positive impact on going concern
Value of Equity/Total Liabilities	Solvency proxy. The extent to which a firm uses equity to finance its assets; i.e. how much the company's market value would decline before liabilities exceed assets. The higher the ratio, the higher the risk of surviving, the closer to bankruptcy.	Significant positive impact on going concern
Turnover/Net Assets	Asset Management proxy. The extent to which any one naira spent on Net assets contributes to going concern. The higher the ratio, the better the chances of surviving.	Significant positive impact on going concern
Moderating Variables		
The Market Value of Shares	Operating Efficiency proxy. How efficiently a firm employs strategy to maintain stakeholder's confidence. High value implies growth in market shares.	Significant positive impact on going concern
Age	Maturity proxy. The oldest a firm, the better the competence and experience of the firm. This would add value in decision-making over time. Age of a firm is measured as logarithm of age from date of listing.	Significant positive impact on going concern
Size	Customer loyalty proxy. The greater the size, the higher the extent to which customers and other stakeholders needs are attained. Measured as logarithm of total assets.	Significant positive impact on going concern

Source: Literature Reviewed. Compiled by Researcher.

# **Model Specification**

Emerging Market Score Model for non-manufacturing firms (EM Score Model) is adopted to measure the survival (going concern) of listed DMBs in Nigeria as used by Sanja, Mirela and Steran (2014). EMscore = 6.56X1 + 3.26X2 + 6.72X3 + 1.05X4 + 3.25Where: EMscore = Overall index X1= Liquidity X2= Leverage X3= Profitability

X4= Solvency Zones of discriminations:

Z > 2.6 - "Safe" Zone, 1.1 < Z < 2.6 - "Grey" Zone Z < 1.1 - "Distress" Zone

Multiple Regression model used is formulated thus:

 $Y_{it} = \alpha_0 + \beta_1 X_{it} + \beta_2 C_{it} + \varepsilon_{it} - - - -(1)$ Where  $Y_{it}$  = dependent variable of firm i for time period t;  $\alpha_0 = \text{constant};$  $\beta_1$  = Coefficient of explanatory variables;

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 $\begin{aligned} X_{it} &= \text{Explanatory variables of firm i for time period t;} \\ \beta_2 &= \text{Coefficient of control variables;} \\ C_{it} &= \text{Control variables of firm i for time period t; and} \\ \varepsilon_{it} &= \text{Error term of firm i for time period t.} \\ \text{From equation 1 above, the following models were developed:} \\ Y_{it} &= f(\text{EM Score}) - - - - - - - - - - - (2) \\ X_{it} &= f(\text{WCTA, ROE, EBITTA, ETL and NAT}) - - - - - - - - (3) \\ Cit &= f(MSPR, SIZE \text{ and AGE}) - - - - - - - - - (4) \\ \text{Substituting equations 2, 3, and 4 into model 1, the following model is obtained.} \end{aligned}$ 

 $GC_{it} = a_{it} + \beta_1 WCTA_{it} + \beta_2 ROE_{it} + \beta_3 EBITTA_{it} + \beta_4 ETL_{it} + \beta_5 NAT + \beta_6 MSPR_{it} + \beta_7 SIZE_{it} + \beta_8 AGE_{it} + e_{it} + \beta_8 AGE_{it} + \beta_8 A$ 

Where:

WCTA=Working Capital/Total Assets (WCTA) of the firm I for time period t.

ROE=Retained earnings/Total Equity (RE/TE) of the firm I for time period t.

EBITTA=Earnings before Interest and Taxes/Total Assets (EBITTA) of the firm I for time period t.

ETL=Book Value of Equity/ Total Liabilities (BVE/TL) of the firm I for time period t.

NAT= Turnover/Total Net Asset of the firm I for time period t.

MSPR=Market value of a share for the firm I for time period t.

FIRMAGE=natural log of age from the date of listing of the firm I for time period t.

FIRMSIZE= natural log of total assets of the firm I for time period t.

The GC model is formulated to include asset management which is one of the major concern of management to coordinate the deposits and loans which centre on their core activities.

A priori expectations  $\beta_1 \ge 0$ ,  $\beta_2 \ge 0$ ,  $\beta_3 \ge 0$ ,  $\beta_4 \ge 0$ ,  $\beta_5 \ge 0$ 

# **RESULT AND DISCUSSION**

This session provides the result of descriptive statistics, correlation, regression, diagnostic test and test of hypothesis formulated for this study.

# **Descriptive Statistics**

The descriptive statistics are presented in Table 2 where the minimum, maximum, mean and standard deviations of the variables used in the study are shown.

 Table 2:
 Summary of Descriptive Statistics (2007-2017)

Variables	Obs.	Mean Stat	Std. Dev. Stat	Min Stat	Max Stat	Skewness Stat	Kurtosis Stat
EMSCORE	165	5.4835	10.037	-51.253	89.927	4.096	44.808
WCTA	165	0967	.818	-6.4432	6.248	0.1914	45.362
ROE	165	1.7194	21.615	-168.88	145.332	-0.131	40.52
EBITTA	165	0.1452	1.669	-12.865	12.598	0.793	46.83
ETL	165	0.2171	.281	0.0037	2.609	5.692	42.83
NAT	165	6.926	38.488	-0.222	262.79	6.007	37.84
MSPR	165	10.130	9.777	.5	46.533	1.643	5.523
SIZE	165	9.1590	.880	7.86	11.693	1.649	5.620
AGE	165	1.0779	.379	0	1.672	-0.211	2.441

Source: Descriptive Statistics Results using STATA 12.0

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Table 2 shows the detailed account of the descriptive statistics for the dependent and independent variables respectively. EMSCORE= going concern, WCTA= working capital to total assets, ROE= retained earnings to total equity, EBITTA= earnings before interest and tax to total assets, ETL= Equity to total liabilities, NAN= Net asset turnover, MSPR= market value of share SIZE= Size of the companies and AGE= Number of Years from date of listing. The most prominent among the results in the descriptive statistics are the higher standard deviations of NAN (38.45) and lowest standard deviation of ETL (0.28) relative to the standard deviations of other independent variables used in the model which ranges from 0.4 to 10.

From Table 2, it is observed, on average, during the period of the study, NAN, ROE, EBITTA, and ETL have mean values of 6.93, 1.72, 0.15 and 0.22 respectively with average survival score of 5.4835. The mean value of the MSPR, SIZE, and AGE of the companies examined are high at 10.1, 9.2 and 1.1 respectively. The DMBs experienced a high growth rate in their market value of share up to the maximum of 47 and a minimum of 0.5, high growth in size from a minimum of 8 to maximum of 12 and there was no decrease in size growth for the period studied. It could, however, be noted that this growth in size coupled with maturity really translated to the maximum survival rate of 89.9 with the average value of 5.4835 EMscore.

Finally, the variables are skewed to the right except ROE and Age that skewed to both side of the tail. While the kurtosis reveals that the data for each variable are heptokurtic in nature.

### **Correlation Matrix**

Table 3 below displays the correlation values between regressor and the regressed and the relationship between the independent variables themselves. The values are gotten from the Pairwise correlation of two-tailed significance. It shows the correlation matrix with the top values displaying the Pairwise correlation coefficient showing the two-tailed significance of these coefficients.

	EMSCORE	WCTA	ROE	EBITTA	ETL	NAN	MSPR	SIZE	AGE
EMSCORE	1.0000								
WCTA	-0.2833*	1.0000							
ROE	0.2661*	0.2261*	1.0000						
EBITTA	$0.9727^{*}$	-0.4047*	0.1247	1.0000					
ETL	-0.0151	0.0622	-0.0223	-0.0296	1.0000				
NAT	0.5037*	0.0073	0.4748*	0.3461*	-0.0712	1.0000			
MSPR	-0.0728	0.0456	-0.1334	-0.0483	0.1644*	-0.1046	1.0000		
SIZE	0.0303	0.1044	-0.0691	0.0161	-0.0448	0.1054	-0.1191	1.0000	
AGE	-0.0559	-0.0523	0.0533	-0.0582	0.0992	-0.0584	0.0703	-0.2123*	1.000

#### **Table 3 Correlation Matrix of the Sampled Observations**

Source: Correlation Matrix Results Using STATA 12.0 (2018) \*. Correlation is significant at 0.05 level (2-tailed)

Table 3 presents the correlation results between determinants of firm survival variables (WCTA, ROE, EBITTA, ETL, NAT, SMSPR, SIZE, and FIRMAGE) and the going concern (EMSCORE) of the listed DMBs in Nigeria. The table result shows that WCTA is negatively related with EMscore from the correlation coefficient of 0.2833 which is significant at 5% level of significance. This indicates that the going concern (EMscore) of listed DMBs has negative association with liquidity (WCTA). The table shows that there is a positive relationship between ROE & EBITTA with the going concern (EMscore) of listed DMBs from the correlation coefficient of 0.2661and 0.9727

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respectively which are significant at 5% level of significance. This result indicates that profitability and leverage has positive association with the going concern (EMscore) of listed DMBs in Nigeria. Furthermore, the table shows that there is negative association between ETL and the EMscore from the correlation coefficient of -0.0151 which is insignificant at 5% level of significance. This result indicates that solvency (ETL) increases the going concern (EMscore) of listed DMBs in Nigeria. Similarly, the table portrays a positive relationship between Asset Management (NAT) and going concern with 0.503 coefficient and significant at 5%. This suggests that DMBs' ability to manage their net assets is positively related to EMscore up to 50%. The result from table 8 indicates that among the control variables, only size has a positive relationship with EMscore with 0.030 coefficient while MSPR and age have a negative relationship with EMscore from the correlation coefficient of 0.0728 and 0.0559 respectively. Following the analysis of the relationships between determinant of firm survival (liquidity, leverage, profitability and solvency) and going concern (EMscore) of the listed DMBs in Nigeria, the study in the following section presents and discusses the regression results of the model of the study from which the hypotheses of the study are tested and the relevant inferences are drawn about the relationship between determinants of firm survival and the going concern of listed DMBs in Nigeria.

### **Diagnostic Test**

For better reliability and validity of all statistical inferences to be drawn for the study, this section presents the result of the diagnostic test conducted. Shapiro-Wilk W Test for normal data was conducted and it was found that the data used for the study are not normally distributed as it revealed significant p-value (See appendix ii). Similarly, Multicollinearity Test was conducted to check whether there is a strong correlation between the independent variables which could mislead the result of the study. The result of the diagnostics test reveals no multicollinearity in the data. The variance inflation factor and the tolerance were found to be consistently lower than ten and one respectively indicating the absence of multicollinearity (see appendix ii). Heteroscedasticity Test evidenced from Breuch Pagan/Cook-Weisberg coefficient of 40.21 with a p-value of 0.000 confirms the presence of the effects of heteroskedasticity for the model, that is, there is constant variance in the residuals. This suggests the use of Robust Generalised Least Square model.

#### **Regression Result**

The summary of the regression results obtained from the model of the study presented in table below:

FIXED EFFECT EMSCORE					RANDOM EFFECT EMSCORE			C
Variables	Coefficient	Sig P	VIF		Coefficient	Sig P	VIF	
CONST.	11.015	0.000	-		3.7572	0.001	-	
WCTA	0.0066	0.017	1.22		0.0109	0.000	1.22	
ROE	.03714	0.000	1.38		.04159	0.000	1.38	
EBITTA	5.4349	0.000	1.15		5.465	0.000	1.15	
ETL	0.950	0.024	1.19		.3001	0.422	1.19	
NAT	.03176	0.000	1.5		0.0381	0.000	1.5	
MSPR	01532	0.276	1.08		01051	0.304	1.08	
SIZE	7492	0.012	1.09		.03807	0.740	1.09	
AGE	0.1236	0.832	1.08		0.1553	0.557	1.08	
R <sup>2</sup> :Within				0.9854				0.9844
Between				0.9592				0.9921
Overall				0.9792				0.9856
F. Sig.				0.0000				0.0000

Table 4	Summary	of Fixed Random	Effect Regression	Results
	Summary	or riacu Kanuom	Lince Regiossion	Itcourto

Source: Result output from STATA 12.0

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From the summary of fixed random effect regression results in Table 4 above, Hausman specification test was conducted in selecting between fixed and random effect regression. The chi<sup>2</sup> of 15.2 and prob>chi<sup>2</sup> of 0.0554 suggests the adoption of fixed effect as against the random effect GLS regression. For better and reliable result of the fixed effect regression, the robust fixed effect result is appropriate. This is because robustness filters out other statistical disturbance elements from the result. Thus, the robust fixed effect GLS regression result is presented below and used to test the hypothesis of the study.

EMSCORE				
Variables	Coefficient	Sig P	VIF	
CONST.	11.015	0.000	-	
WCTA	0.0066	0.017	1.22	
ROE	.03714	0.000	1.38	
EBITTA	5.4349	0.000	1.15	
ETL	0.950	0.024	1.19	
NAN	0.03176	0.000	1.5	
MSPR	01532	0.276	1.08	
SIZE	-0.7492	0.012	1.09	
AGE	0.1236	0.832	1.08	
<b>R<sup>2</sup>: Within</b>				0.9854
Between				0.9592
Overall				0.9792
F. Sig.				0.0000

# Table 5: Summary of Robust Fixed Effect GLS Regression Results

Source: Result output from STATA 12.0

# **Regression equations:**

*GC*=11.015+0.0066*WCTA*+0.3714*ROE*+5.4349*EBITTA*+0.95*ETL*+.03176NAN-0.0153 *MSPR* - 0.7492 *SIZE* +0.124AGE+ e<sub>it</sub>

The result for the model above shows that the explanatory variables Liquidity, Profitability, Leverage, Solvency and Asset Management all have a significant positive impact on the dependent variable GC. It is also observed that size is significant at 5% and negatively impacted on GC while Operating Efficiency and Age are immaterial at 95% confidence level.

The logical explanation for this finding is that an increase in the WCTA, ROE, EBITTA, ETL and NAT would enhance the survivability of the listed DMBs by 1%, 4%, 54% 10% and 3% respectively. The cumulative influence of all the exogenous variables put together is able to explain the dependent variable up to 98% as indicated by the overall adjusted R<sup>2.</sup> This provide the adequacy of the model used as suggested by f-sig figure of 0.0000. The remaining 2% is explained by other factors not captured in this study. The variance inflation factor (VIF) of 1.22, 1.38, 1.15, 1.19, 1.5, 1.08, 1.09 and 1.08 stand for the explanatory variables WCTA, ROE, EBITTA, ETL, NAT, MSPR, SIZE, and AGE respectively.

# **Test of Hypotheses**

The regression result is used to test the hypotheses and presented below:

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 $H_{o1}$ : Liquidity, measured by the variable WCTA, has no significant impact on the survival of listed DMBs in Nigeria using the variable EMSCORE as a proxy for survival.

Survival measured by EMscore is found to positively associate with WCTA and statistically significant with 0.017 coefficient and a p-value of 0.01 indicating that working capital to total assets significantly influences survival of listed DMBs in Nigeria. This, therefore, provides an evidence of rejecting the null hypothesis of one of the studies. Thus, for hypothesis 1, H<sub>01</sub> is rejected. The result is in line with the prior expectation of the study which believes that there should be a significant positive relationship between working capital to total assets and survival.

 $H_{o2}$ : Profitability, measured by the variable ROE, has no significant impact on the survival of listed DMBs in Nigeria using the variable EMscore as a proxy for survival

Survival measured by EMscore is found to be positively associated with ROE and statistically significant with a coefficient of 0.04 and p-value of 0.000 indicating that ROE has significantly influenced survival of listed DMBs in Nigeria. Therefore, retained earnings to total equity have a significant impact on the EMscore. This, therefore, provides an evidence of rejecting the null hypothesis two of the study. Thus, for hypothesis 2, Ho2 is rejected. The result is in line with the prior expectation of the study which believes that there should be a significant positive relationship between retained earnings to total assets and survival.

 $H_{o3}$ : Leverage, measured by the variable EBITTA has no significant impact on the survival of listed DMBs in Nigeria using the variable EMscore as a proxy for survival

Survival measured by EMscore is found to be positively associated with EBITTA and statistically significant with a p-value of 0.000 and 5.6948 coefficient indicating that earnings before interest and tax to total assets significantly influences survival of listed DMBs in Nigeria. For any 1% increase in retained earnings to total assets, the EMscore will increase by 5.43. Therefore, earnings before interest and tax to total assets have a significant impact on the EMscore. This, therefore, provides an evidence of rejecting the null hypothesis three of the study. Thus, for hypothesis 3, Ho3 is rejected. The result is in line with the prior expectation of the study which believes that there should be a significant positive relationship between earnings before interest and tax to total assets and survival.

 $H_{o4}$ : Solvency, measured by the variable ETL has no significant impact on the survival of listed DMBs in Nigeria using the variable EMscore as a proxy for survival

Survival measured by EMscore is found to positively associate with ETL and statistically significant with 0.95 coefficient and a p-value of 0.024 indicating that book value of equity to total liabilities significantly influences survival of listed DMBs in Nigeria. This, therefore, provides an evidence of rejecting the null hypothesis four of the study. Thus, for hypothesis 4, Ho4 is rejected. The result is in line with a prior expectation of the study which believes that there should be a significant positive relationship between the book value of equity to total liabilities and survival.

 $H_{o5}$ : Asset management, measured by the variable NAT, has no significant impact on the survival of listed DMBs in Nigeria using the variable EMscore as a proxy for survival

Survival measured by EMscore is found to positively associate with NAT and statistically significant with 0.032 coefficient and a p-value of 0.000 indicating that book net asset turnover significantly influences survival of listed DMBs in Nigeria. This, therefore, provides an evidence of rejecting the null hypothesis four of the study. Thus, for hypothesis 5, H<sub>05</sub> is rejected. The result is in line with the prior expectation of the study which believes that there should be a significant positive relationship between the book value of equity to total liabilities and survival.

# **DISCUSSION OF RESEARCH FINDINGS**

The research results show that the survival of listed DMBs in Nigeria is a function of liquidity, profitability, leverage, solvency and asset management. The study finds out that an increase in WCTA, ROE, EBITTA, ETL and NAT will increase the survival (EMscore) of the listed DMBs in Nigeria. While SIZE has a negative impact on EMscore, AGE and MSPR have inconsequential impact on survival of listed DMBs. It is also discovered that EMscore variable of profitability, leverage, solvency, liquidity and asset management are key in determining survival of listed DMBs in Nigeria. The results of the study is in consistence with Shisia et al. (2014) and Makini (2015) whose studies concluded that the EMscore model is suitable to predict the financial health of banks.

The study has numerous theoretical, practical and regulatory implications. These implications represent the contributions to knowledge in the study which are expected to benefit DMBs, existing body of knowledge within the accounting research, accountants in practice, investors, regulators and providers of accounting services as the outcome of this study would enable DMBs to appreciate to the extent liquidity, leverage, profitability, solvency and asset management is to the organization in the area of survival.

This study is in line with bankruptcy and stakeholder theories. As argued by the proponent of stakeholder interest maximization as the main objective of an organisation, DMBs would survive only if they are able to meet substantially the interest of their major stakeholders including management, shareholders, depositors, investors and regulatory agencies as at when due. Inability to meet or sustain these interests over a given period of time say five years could be tantamount to bankruptcy or liquidation, with either stakeholders applying for such or through voluntary filing by the management. In the event of these, not only would the stakeholders lose, but the Nigerian economy as a whole would be affected negatively.

Liquidity of a DMBS is the ability of a bank to pay its short-term obligations as at when due. The lower the value, the higher the chance of bankruptcy, that is, the threat to going concern of DMBs. Leverage is the ability to pay dividend or re-invest in the lucrative venture. A high ratio indicates that growth may be sustainable as it is not fully financed by debt. Profitability is the earning power of DMBs' assets. An increasing ratio indicates that banks are able to utilize their assets for earning and increasing return on assets investment. Solvency is the extent to which DMBs use equity to finance its assets. By how much would the DMB's market value decline before liabilities exceed assets? The higher the ratio, the higher the risk of surviving, the closer to bankruptcy. Asset Management is the extent to which any one naira spent on Net assets by DMBs contributes to going concern. The higher the ratio, the better the chances of surviving. DMBs size explain how efficiently banks employ strategy to maintain stakeholder's confidence. High value implies growth in market shares. Bank size explains customer loyalty. The higher the size, the better the extent to which customers and other stakeholder's needs are attained. The older a DMB, the better the competence and experience of the bank. This would add value in decision-making over time. In summary, DMBs should maintain survival determinants up to 50% so as to guarantee their going concern. This is because the mean coefficient for liquidity, solvency and leverage are -9.7%, 14.5% and 21.7% respectively which could downsize stability of their present status if not improved. This result was augmented by the significant positive effects of other determinants including profitability (172% efficiency) and Asset Management (693% efficiency).

# CONCLUSION AND RECOMMENDATIONS

The EMscore model is a very practical tool that can be used to assess the going concern of DMBs. The result of this empirical study suggests that explanatory variables in EM score model are relevant in determining DMBs' survival in both the developed economy and as well in Nigeria. This is true despite profound institutional differences that exist between Nigeria and the developed countries. Specifically, the study concludes that WCTA, ROE, EBITTA, ETL, and NAT have statistically positive significant impact on the survival of listed DMBs in Nigeria whereas SIZE has a significant negative impact on survival of listed DMBs in Nigeria.

Overall, the empirical results from this study offer some support for the bankruptcy theory. With the adjusted  $r^2$  of 0.98 with f sig. of 0.000 from the model used in the study, the study concludes that liquidity, leverage, profitability, solvency and assets management have a significant impact on survival of listed DMBs in Nigeria.

In line with the findings and conclusions from this study, the following are recommended: The study clearly asserts that DMBs listed in Nigeria have enough scope to enhance their survival by handling their MSPR in more efficient ways through efficient employment of strategy to maintain stakeholder's confidence in term of reporting material information about its operations in line with global best practice to stakeholders and adherence to CBN regulations. This is because DMBs MSPR affects survival negatively. Similarly, the management of DMBs should enhance their decision on WCTA, ROE, EBITTA, ETL and NAT by improving the individual ratio up to 50% for stability in survival status as suggested by findings of a positive significant relationship with survival. This study highly recommends to the potential investors in companies to use the EMscore model as an assessment tool. The results could raise certain questions about the going concern of DMBs and could ultimately result in an investor judging DMBs that is profitable and well managed since declining EM score values depict a threat to survivability.

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# Appendix A

#### **Population and Sample Listed DMBs**

S/N	BANK NAME	YEAR OF LISTING
1	ACCESS BANK PLC	1998
2	DIAMOND BANK PLC	2005
3	ECOBANK PLC	2006
4	FIRST BANK OF NIGERIA PLC	1971
5	FCMB PLC	2004
6	FIDELITY BANK PLC	2005
7	GTBANK PLC	1996
8	SKYE BANK PLC	2005
9	STANBIC BANK PLC	2005
10	STERLING BANK PLC	1992
11	UBA PLC	1970
12	UNION BANK PLC	1971
13	UNITY BANK PLC	2005
14	WEMA BANK PLC	1990
15	ZENITH	2004
16	JAIZ BANK PLC *	2017