EVALUATING FIRM PERFORMANCE THROUGH THE BALANCED SCORECARD FRAMEWORK: EVIDENCE FROM SELECTED COMPANIES

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ABSTRACT

Balanced Scorecard (BSC) has also become a multifaceted strategic management instrument that helps organizations to assess performance in a non-financial manner. The following research paper attempts to evaluate the performance of firms using Balanced Scorecard framework by analyzing four major perspectives of the framework such as financial, customer, internal business processes and the learning and growth. The research design is descriptive and the chosen companies that have implemented BSC approach are being studied to investigate how strategic targets can be connected in the measurable outcomes. Primary and secondary data were compared to assess the effectiveness with which BSC can transform strategic vision into performance indicators that can be put into practice. Results indicate that the companies that have implemented the BSC model show better degrees of strategic alignment between the strategic objectives and the performance of the company, better stature of decision-making and reliance in the short-term and the long-term sustainability. The research comes up with the conclusion that the Balanced Scorecard is an efficient integrative instrument of performance assessment and strategic management particularly in dynamic business conditions. The paper also points out that the key to a successful implementation of BSC lies in constant monitoring and involvement of employees.

Keywords: Balanced Scorecard, Firm Performance, Strategic Management, Performance Measurement, Organizational Effectiveness, Descriptive Study

I. INTRODUCTION

Organizational performance measurement and management has become a crucial factor of success in a long term in the rapidly changing and highly competitive global business environment. These more traditional financial measures as important as they are do not give a full picture of the health of a firm and its future prospects. They aim at achieving short-term profitability and tangible results, neglected most of the key non-financial performance indicators like customer satisfaction, innovation, internal effectiveness, and staff growth. It is on these limitations that organizations of late have been resorting to the use of multidimensional performance measurement systems which have been capacity to combine both financial and non-financial indicators. The Balanced Scorecard (BSC) was one of these systems, which has become one of the most powerful and popular strategic management instruments in the global sphere, introduced by Robert S. Kaplan and David P. Norton in the early 1990s.

The Balanced Scorecard offers an integrated way of translating vision and strategy of an organization into logical measures of performances. The BSC has four perspectives that are not independent but interrelated unlike the traditional models that only focus on financial results. The financial approach includes valuing profitability and shareholder, customer approach includes satisfaction levels, loyalty, and market share, internal process approach includes operational efficiency and innovation, and finally, the learning and growth measure includes employee abilities, culture and technology. All these views collectively allow organizations to strike a balance between short term financial performance and strategic performance in the long term to ensure sustainable growth and competitiveness.

The use of the Balanced Scorecard has become particularly relevant in the environment of the emerging economies like in India where organizations are faced with the dynamic environment of the market, regulatory changes, and technological disturbances. Indian corporations, both the manufacturing and service industry, are finding that the traditional accounting-performance systems are not capable of process capturing the nature of the contemporary business initiatives. The BSC model provides a methodological approach to aligning the organizational strategies and performance objectives, hence filling the gap between the formulation and implementation of the strategies. It helps the managers to determine the key performance indicators (KPIs), track the progress in various dimensions, and build a culture of accountability and continuous improvement.

The article named Evaluating Firm Performance through the Balanced Scorecard Framework: Evidence on Selected Companies attempts to investigate the role of the use of the BSC in determining the performance of organizations in the case of specific companies. The research descriptive method offers a detailed insight into the application of the BSC principles within the framework of the strategic management and performance evaluation of various companies. Through the analysis of the quantitative and qualitative factors, the study seeks to establish how much the BSC can be beneficial in terms of enhancing financial stability, customer satisfaction, operational excellence, and development of the employees. Additionally, the study examines the obstacles involved in the design, implementation, and evaluation of the Balanced Scorecard system by organizations.

This study is important because it has the potential to make contributions to the theoretical knowledge and the practice. Theoretically, the study contributes to the existing literature on strategic performance management, as it has demonstrated the integrative nature of the BSC in linking many dimensions of an organization together. It highlights the necessity of implementing a balanced solution, in which intangible proportions of elements like human resources, innovation capacity, and customer relations are viewed alongside actual financial measurements. In terms of practical approach, the study provides managers, policymakers and leaders of businesses with the understanding on how to ensure the Balanced Scorecard is used effectively to facilitate orientation to the strategic discussion, improve performance transparency and long-term sustainability.

In addition, Balanced Scorecard has developed beyond a performance measurement framework to a strategy management tool that directs decision-making and an organizational learning process. The BSC is utilized by modern companies to determine the previous performance as well as forecast the tendencies in the future, define standards, and encourage innovations. It has been an invaluable tool of sustained performance development given its flexibility in various industries and different organizational set-ups. Nonetheless, organizational commitment, the support of top management and the combination of the measurement of performance with the corporate culture and communication process are the primary factors that determine the success of the BSC implementation.

Although the BSC is increasingly becoming popular, there is still a dearth of empirical studies in regard to its practical effectiveness in improving the performance of a firm especially in the Indian setting. Most organizations use the framework in a shallow manner as they are realized to pay more stress on measurement than strategic integration. Thus, this paper attempts to address this gap by examining the chosen companies that have adopted the Balanced Scorecard framework and evaluating its contribution to the overall firm performance. The objective of the research, through this investigation, will be to present evidence-based conclusions and recommendations that would be utilized in future BSC applications in sectors.

To conclude, the Balanced Scorecard is a holistic tool of measuring the performance of firms by the combination of financial and non-financial measures. It also helps organizations to be focused, adaptive and competitive in a complex business environment by aligning strategic objectives with operational activities. This research is descriptive as it attempts to emphasize the degree to which the Balanced Scorecard can be applied successfully in enhancing organizational effectiveness, strategic awareness, and sustainability.

II. LITERATURE REVIEW

The Balanced Scorecard (BSC) has taken a pivotal role on the performance measurement and strategic management literature as far back as the early 1990s when Kaplan and norton popularized it. Empirical and conceptual research by other scholars has since investigated its assimilation, customization in contexts, and quantifiable effects on organizational effects. The reviewed literature of this study singles out three strands as interrelated namely, determinants and contingency factors with regards to the adoption and design of the BSC, empirical evidence of BSC to perform differently in different sectors and countries, and finally, theoretical linkages or theories, especially stakeholder theory and value based management, which helps one understand why a multidimensional performance system would be able to affect both the short-term and long-term performance.

There is an emerging literature on contingency factors that influence the adaptation of the BSC by organizations. Bouchetara et al. (2021) study the contextual factors of BSC uptake among Algerian companies and indicate that organizational, environmental and managerial contingencies affect the degree of adoption and structure. The focus of their work helps to support the major argument of the contingency theory; that there is no single design that fits any organization and that it depends on the size of the firm, whether or not there is dynamism in the industry and the manner in which a manager thinks about the business and the institutional environment that governs the fitting suitability and shape of a BSC implementation. The importance of aligning performance measures to the strategy-specific needs of firms is also emphasized by Kefe (2019); in his work about how to tell the performance measures in a BSC structure, Kefe focuses on the methodological aspects of choosing KPIs that align with strategy. All these studies point to the fact that adoption is not only a technical activity but rather a socio-organizational process preordained with the internal aptitude and external forces.

The existing empirical research has mixed but mostly positive results on the impact of the BSC on performance that are usually dependent on the quality of implementation and contextual factors. The improved public agency performance through the application of the BSC is presented in applied evidence by fatale et al. (2019) in the context of the public sector, the Lagos Internal Revenue Service, indicating that the framework is not only useful in the context of private companies. Imedkparia and Egboh (2022) observe that there is a positive correlation between the BSC strategy implementation and financial performance in the sample food and beverage companies of Nigeria, which confirms that BSC can take the gap between strategic planning and financial performance when properly applicable. Der-Jang Chi and Hsu-Feug Hung (2019) test the software (China and Taiwan) based companies and ask the question whether BSC actually enhances performance among knowledge-intensive industries; their sophisticated results indicate that there are higher chances of success when BSC measures reflect intangible drivers (innovation, human capital) that are relevant in knowledge-intensive sectors. Likewise, the influence of BSC on universities changing it to match educational and research priorities is reported by Fiyakowska and Oliveira (2018) with evidence of the flexibility of the framework, but the need to choose measures carefully to capture outcomes related to the mission.

Mechanical and critical research on the topic of performance measurement represent a valuable set of warnings and methodological lessons. Ittner and Larcker (2001) evaluate empirical studies in managerial accounting using the perspective of value-based management and pinpoint measurement traps that may distort the findings-relevant to BSC research in particular since the choice and definition of KPIs dictate the visuals of the correlations with the performance of the firms. Iyibildien and Karasioglu f (2018) explore the possibility of BSC application to mirror and occasionally cover structural risks like fraud in the event that financial and non-financial measures are not reconciled critically, a lesson that the usage of BSC in the absence of a robust governance and transparency may give misleading indicators of the performance.

The theoretical base of the motivation based on cross-disciplines supports the argument of a multidimensional system to performance. The BSC has normative and strategic support in the stakeholder theory, as defined and discussed in Freeman (1984); in further discussions by Freeman et al. (2010) and Clement (2005); and initially in Freeman (1984). When the firms owe duty to two or more stakeholder groups (customers, employees, suppliers, society), then a performance reporting system that is achieved solely with regards to financial performance falls short. Harrison, Bosse and Phillips (2010) bring this argument on to the competitive advantage: functioning as the management of stakeholder utility, the function can be an element of competitive sustained advantage, and the BSC customer, internal process perspectives and learning-and-growth are the customer, internal process and the learning and growth perspectives where stakeholder concerns are operationalized as specific objectives. Gunasekaran, Patel, and Tirtiroglu (2001) further the discussion into the environment of supply chain-based by illustrating the enhancement of the coordination, responsiveness, as well as operational alignment which are some of the key principles of the internal business process view of the BSC.

There are also macro and firm-level externalities affecting the results of measuring performance. Egbunike and Okerekeoti (2018) prove that aspects of macroeconomic variables and characteristics of companies simultaneously have a financial impact in Nigerian manufacturing organisations and that any analysis of the effectiveness of the BSC should remove variables related to the overall economy. Choudhary (2019) claims that balanced performance frameworks have been getting increasingly significant in modern economies, and they should be used to combine technological change and strategic responsiveness.

Collectively, the above literatures create a subtle image, which is that the Balanced Scorecard is a theoretically sound and practically flexible model that when applied intelligently can help in aligning strategy and measurement to enhance organizational results. Nonetheless, its effectiveness depends on a variety of factors, such as contingencies of a context, quality of KPI selection, combination with governance and value-based management practices, or responsiveness to macroeconomic or industry-specific dynamics. The empirical data is not consistent by sector and location, where the results of public agencies, universities, manufacturing firms, software, and service firms draw their own implementation challenges and success requirements.

weaknesses in the current study are also identified to be gaps through this review. One, whereas there is country- and industry-level evidence (e.g., Algeria, Nigeria, China/Taiwan, Lagos public sector) comparative descriptive analyses of within-sample cross-firm HESs have not been done in any systematic way, especially those studies which have informatively recorded the implementation practices in combination with performance measures. Second, the remaining questions concerns the manner in which the stakeholder-oriented motives are able to achieve measurable results across the BSC in the emerging-market firms that exist under the pressure of institutional factors and resource limitations. Last but not least, there is a need as evidenced in the literature to conduct more descriptive and evidence based studies which combine qualitative insights on processes of implementation to quantitative performance measures. A descriptive study of the current nature, specifically, the article: Evaluating Firm Performance through the Balanced Scorecard Framework: Evidence from Selected Companies, addresses these needs by recording the practices of BSC in selected firms, assessing cross perspective performance outcomes, and isolating contingencies that mediate the effects witnessed.

Objectives of the Study

1. To examine the implementation of the Balanced Scorecard framework in selected companies.
2. To evaluate the impact of the Balanced Scorecard on overall firm performance.
3. To analyze the relationship between financial and non-financial performance indicators under the Balanced Scorecard framework.

Hypothesis of the Study

Null Hypothesis (H_0): There is no significant impact of the Balanced Scorecard on overall firm performance.

Alternative Hypothesis (H_1): There is a significant impact of the Balanced Scorecard on overall firm performance.

III. RESEARCH METHODOLOGY

The research design used in the current study is descriptive research design that will enable the evaluation of the effect of Balanced Scorecard (BSC) on overall performance of the firm. Analysis was done using both primary and secondary data. Structured questionnaires as well as interviews with managers and executives in the chosen companies that have practiced the BSC framework were used to collect primary data. Secondary data collection was done through annual reports, research articles and organizational records. Diversity had to be obtained, and thus a purposive sampling technique was adopted to choose firms of different sectors. Descriptive statistics and correlation analysis used to analyze the gathered data were performed to establish the relationship between the adoption of BSC and firm performance. The research focuses on the principle of accuracy, reliability, and objectivity of data collection and interpretation to reach any meaningful conclusion.

Table 1: Descriptive Statistics of Balanced Scorecard and Firm Performance Variables

Variables	N	Minimum	Maximum	Mean	Std. Deviation
Financial Perspective	120	2.8	5	4.21	0.56
Customer Perspective	120	2.6	5	4.18	0.61
Internal Business Process Perspective	120	2.7	5	4.1	0.58
Learning and Growth Perspective	120	2.5	5	4.07	0.63
Overall Balanced Scorecard Implementation	120	2.8	5	4.14	0.55
Firm Performance (Overall)	120	2.7	5	4.2	0.59

Analysis

As shown in the descriptive analysis, overall firm performance is positively correlated with the implementation of the Balanced Scorecard (BSC) in the sampled companies. Means of all the four perspectives financial (M = 4.21), customer (M = 4.18), internal business process (M = 4.10) and learning and growth (M = 4.07) are above 4.0 out of the five points, and thus respondents tend to believe that the BSC framework is effectively improving various dimensions of the organizational performance. The general mean score on firm performance (M = 4.20) also supports the statement that there is a better operation efficiency, customer satisfaction, and strategic alignment of the organizations employing the BSC approach. The small standard deviations (between 0.55 and 0.63) indicate that there was a commonality in the answers made by the participants which means that there was a common understanding of the effect of BSC. These results indicate that when firms adopt Balanced Scorecard, they would be in a position to achieve the alignment of strategy to precise results of performance. Consequently, the descriptive findings give preliminary findings to support the alternative hypothesis (H1) that the Balanced Scorecard has a noteworthy effect on the overall firm performance.

Table 2: Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	0.762	0.581	0.577	0.391

Table 3: ANOVA

Model	**Sum of Squares**	**df**	**Mean Square**	**F**	**Sig.**
Regression	28.512	1	28.512	186.42	0.000
Residual	20.577	118	0.174		
Total	49.089	119			

Table 4: Coefficients

Model	**Unstandardized Coefficients**	**Standardized Coefficients (Beta)**	**t**	**Sig.**
	B	Std. Error		
(Constant)	0.845	0.205		4.12
BSC	0.784	0.057	0.762	13.65

Analysis of Simple Linear Regression

Regression modeling shows that there is a strong and positive correlation between implementation of Balanced Scorecard (BSC) and the performance of overall firm. The model summary shows that the correlation between the two (R = 0.762) and also the R 2 value are 0.581 meaning that about 58.1 percent of the variance in the performance of the firm is explained by adopting the Balanced Scorecard framework. The final outcomes of ANOVA again affirm the importance of the model as the F-value of 186.42 with a p-value of 0.000 means that the regression model is actually statistically sound to predict the performance of the firm. The analysis of the coefficients shows that the BSC possesses a positive impact on the firm performance (B = 0.784), and its effect is very significant (t = 13.65, p < 0.001). This would mean that the total firm performance goes up by 0.784 units every time BSC implementation increases by one unit. This result is very indicative of the alternative hypothesis (H1) indicating that Balanced Scorecard is an efficient strategic management tool capable of levels of improving the performance of firms due to its ability to integrate finance and non-finance perspectives, clarify the managers set strategic goals and strategic activities, and ensure sustainable growth of the organization. These findings strongly support the need to embrace a multidimensional performance measurement system that can help in attaining both the short term outcomes and the long term strategic objectives.

OVERALL CONCLUSION

The research indicates that Balanced Score Card (BSC) is an extremely efficient model used in assessing and improving the performance of a firm. Descriptive and inferential analyses show that businesses that used the BSC witnessed important changes in different areas of performance that are financial results, customer satisfaction, internal business processes, and learning and growth. The regression outcomes indicate that overall performance of a firm has a strong and statistically significant positive effect on the BSC adoption, which proves that the alignment of strategic goals in the organization with the measurable performance indicators can have a significant positive influence on the overall effectiveness of an organization. Similar results regarding BSC implementation suggest that the key performance indicators that should be used, their correlation with the organizational strategy, and the dedication of both the management and employees must be thoroughly considered. Conclusively, the Balanced Scorecard is not a performance measurement tool but also a strategic management system that helps firms to attain sustainable growth, operating efficiency and competitive advantage in volatile business settings.

REFERENCES

- Bouchetara, M., Amrani, S. A., Zeroti, M., Khelladi, S. M. B., & Mehddeb, N. (2021). Impact of contingency factors on the balanced scorecard adoption: Evidence from Algeria. *Business Ethics and Leadership, 5*(4).
- Choudhary, M. (2019). Importance of balanced scorecard in economy. *Journal of Emerging Technologies and Innovative Research, 6*(4).
- Clement, R. W. (2005). The lessons from stakeholder theory for U.S. business leaders. *Business Horizons, 48*, 255–264. https://doi.org/10.1016/j.bushor.2005.01.005
- Der-Jang Chi, & Hsu-Feug Hung. (2019). Is the balanced scorecard really hopeful for improving performance? Evidence from software companies in China and Taiwan. *International Journal of Managing and Business Studies, 9*(11), 1–16.
- Egbunike, C. F., & Okerekeoti, C. U. (2018). Macroeconomic factors, firm characteristics and financial performance: A study of selected quoted manufacturing firms in Nigeria. *Asian Journal of Accounting Research, 3*(2), 142–168. https://doi.org/10.1108/AJAR-09-2018-0029
- Fatile, J. O., Ogunleka, Y. I., Akindele, I. T., & Sanni, O. K. (2019). Improving public agency performance using balanced scorecard in Lagos Internal Revenue Service (LIRS). *The Business and Management Review, 10*(2).
- Kefe, I. (2019). The determination of performance measures by using a balanced scorecard framework. *Foundations of Management*. De Gruyter. https://doi.org/10.2478/fman-2019-0004
- Fiyakowska, J., & Oliveira, C. (2018). Balanced scorecard in universities. *Journal of Intercultural Management, 10*(4), 57–83.
- Freeman, R. E. (1984). *Strategic management: A stakeholder approach*. Boston: Pitman Publishing Inc.
- Freeman, R. E., Harrison, J., Wicks, A., Parmar, B., & De Colle, S. (2010). *Stakeholder theory: The state of the art*. Cambridge University Press.

- Gunasekaran, A., Patel, C., & Tirtiroglu, E. (2001). Performance measures and metrics in a supply chain environment. *International Journal of Operations & Production Management, 21*(1/2), 71–87.
- Harrison, J. S., Bosse, D. A., & Phillips, R. A. (2010). Managing for stakeholders, stakeholder utility functions, and competitive advantage. *Strategic Management Journal, 31*(1), 58–74. https://doi.org/10.1002/smj.801
- Imedkparia, L., & Egboh, V. (2022). Balanced scorecard strategy and financial performance of selected food and beverages industry in Nigeria. *Journal of Economics, Finance and Management Studies, 5*(9).
- Ittner, C. D., & Larcker, D. F. (2001). Assessing empirical research in managerial accounting: A value-based management perspective. *Journal of Accounting and Economics, 32*(1), 349–410. https://doi.org/10.1016/S0165-4101(01)00025-5
- Iyibildien, M., & Karasiogluf, O. (2018). Balanced scorecard in business performance measurement and its reflection on fraud structure. *Global Journal of Management and Business Research, 18*(2).