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Application Analysis of Balance Score Card Techniques for Performance Measurement: A Structural Study

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ABSTRACT

This research article is framed toexplain the concept of balance scorecard by highlighting its use, application in depth. A critical enabler in achievingdesired performance goals is the ability to measure performance. Despite the importance of accurately measuring organizational performance in most areasof academic research, there have been very few studies that have directly addressed the question of how overall organizational performance is or shouldbe measured. The most popular of the performance measurement frameworkhas been the balanced scorecard abbreviated as BSC. The BSC is widely acknowledged to have moved beyond the original ideology. It has now become astrategic change management and

performance management process.The approach used in this paper is the combination of literature review evolution of balance score card and its applications in various sectors/organizations/areas. This identify that the balanced scorecard is a powerful but simple strategic tool and the simplicity of the scorecard is in its design. This paper provides a comprehensive overview of the balanced scorecard combined with application and strategy, which are now in a better position to begin to recognize management's expectations and to discover new ways to build value workplace for learning and performance within organization.

Keywords: Performance Measures, Performance Measurement, Balance Score Card

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INTRODUCTION

Over the past few decades, the complex global businessenvironment and increasing business competitiveness havehighlighted the importance of performance measurement. Performance measurement methods were widely adopted many industries and they had received more and moreattention (Niven, 2002; Yang, John, Albert, Chiang & Daniel, 2010). Owing to recent pressures attributed totechnological and competitive changes faced by all sectors, performance measures and measurement continue to becritical to the tracking, management and improvement of the competitive performance of organizations. In this context, understanding the scope, frequency and relevance of different performance measures available to executives is essential to the process of integrating the different dimensions of organizational performance. (Gomes, Jabbour, Adriana & Charbel, 2011).

Research in the field of performance measurement (PM)has drawn on a wide cross section of disciplines, fromoperations and production management to accountingand management control (Neely, Gregory & Platts, 1995;Neely, 2005). Over the last two decades, the focus hasmoved from PM system design (Neely *et al.*, 1995) tothe design and deployment of enterprise performancemanagement systems (Neely, 2005). With academic and practitioner interest in the balanced scorecard (BSC),there has spawned a literature around the design (Kaplan Norton, 1992; Neely, Mills, Gregory, Richards, Platts Bourne, 1996; Bititci, Turner & Begemann, 2000),implementation (Bourne, Neely, Mills & Platts, 2003;Bourne, Kennerley & Franco-Santos, 2005; Bititci, 2006)and use of performance measures to manage performance (Bourne *et al.*, 2005; Wouters Wilderom, 2008) together with a more critical interest in whether scorecards work (Norreklit, 2000, 2003) and whether they have a positive impact on performance (Bourne, Melnyk & Faull, 2007; Griffith & Neely, 2009). However, there remains one fundamental yet excruciatingly complex question – how is the performance of an organization managed? (Pavlov Bourne, 2011).

Figure 1 below clearly indicates the significance, importance and the extent which performance measurement enables tocompare organizations performance and further growth. Organizations are managing their improvement efforts based on fact. And measuring performance is deriving those facts. That is, organizations are using performance measurements to help achieve desired performance levels. Companies are discovering that performance measures can help any organization:

As indicated in Figure 1 performance measurement is, therefore, the key to calibrating the effectiveness of abuilt facility in a comprehensive manner. Amaratunga, Baldry and Sarshar

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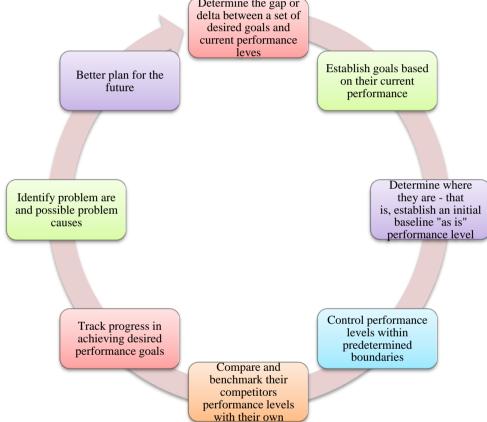
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(2000) argue that performancemeasurement is vital to an organization as it providesmuchneeded direction to management for decisionmaking. Performance measurement extends opportunities review past and present functioning, and to derive futurestrategies for successful operation of the organization and for the fulfillment of its strategic goals (Lebas, 1995, Lavy, Garcia & Dixit, 2010)

Determine the gap or delta between a set of

Figure 1: Process of Performance Measurement



PERFORMANCE MEASUREMENT USING BALANCE SCORECARD

Introduction to Balance Scorecard

Successful competition in this era requires competencies not traditionally reflected in the existing financial statements. To a certain extent, a heavy reliance on financial performance measures could hinder future competitive advantage as financial indicators are outcome measures, which do not reflect drivers of future performance and true value creation (Adrien, Mark & Sin-Hoon, 2009). Hence, a balanced perspective ought to be adopted in approaching the topic of performance measurement (Kaplan & Norton, 1996).

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The balanced scorecard (BSC)has attracted considerable interest among researchers and practitioners. Gautreau and Kleiner (2001) cite Silk asreporting that 60 percent of Fortune 1000 companies are either implementing the BSC or are attempting to do it. It is over 20 years since Schneiderman (1987) first used aBalanced Scorecard in analogue devices and now over 15 years since Kaplan and Norton's (1992) first HBR article(Bourne *et al.*, 2008). The balanced scorecard (BSC) is a powerful and balanced strategic management systemthat facilitates the implementation of strategy, using measures to ensure that corporate vision and strategy are implemented and achieved (Kaplan & Norton, 1996). The Balanced Scorecard (BSC) translates an organization's mission and strategy into a comprehensive set of performance measures that provides the framework for a strategic measurement and management system. The scorecard measures organizational performance acrossfour linked perspectives: financial, customer, internal business process, and learning and growth (Armstrong, 2006).

In the early 1990s, Robert Kaplan and David Nortondeveloped a new approach to strategic management. They named the system the "balanced scorecard". Indealing with some of the vagueness ofprevious weaknesses and management approaches the scorecardapproach provides a clear definition as to what businessorganizations should measure in order to balance the financial perspective. The balanced scorecard can effect largescale organisational change and improvement but itdoes require a degree of expertise in its implementation(Pitt & Tucker, 2008). The balanced scorecard is not justa system of performance measurement but it is also amanagement system that enables organizations to clarifytheir vision and strategy and translate them into action. It provides feedback around both the internal businessprocesses and external outcomes in order to continuouslyimprove strategic performance and results. When it hasbeen fully deployed, the balanced scorecard transformsstrategic planning from a routine undertaking into thefocus of organizational strategic direction. Kaplan and Norton claim that "The balanced scorecard retainstraditional financial measures. But financial measures tellthe story of past events, an adequate story for industrialage companies for which investments in long-termcapabilities and customer relationships were not criticalfor success. These financial measures are inadequate, however, for guiding and evaluating the journey that information age companies must make to create futurevalue through investment in customers, suppliers, employees, processes, technology and innovation".

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Evolution of Balance Scorecard

Performance measurement in organizations is notsomething new, but in the last 30 years or so, organizationshave realized that financial measures alone are notsufficient for evaluating the success of an enterprise. In the 1970s, productivity became a big concern, and business and government organizations began tracking the productivity of labor; machinery, and other resources. In the 1980s, we all became concerned with quality and customer satisfaction, so those measures became part of organizational scorecards.

In the mid-1990s, the balanced scorecard concept was introduced; forcing executives to take a hard look at howmany of their metrics were financial and then balance outtheir scorecards with non-financial metrics. The balancedscorecard approach also recommended that fewer are better: The number of metrics that companies tracked had been increasing each year for many years, but Kaplan and Norton suggested that no one should have more than 15 to 20 metrics per scorecard.

Over the last 30 years or so, the approaches thatorganizations use to measure performance have gonethrough three clear phases or stages. Each phase haslasted 10 or 15 years, and with each successive phase, the practice of measuring performance has becomemore exact. The process is still a long way from whatyou would call science, but the measures are improving, as is the integrity of the data. Models like the Baldrigecriteria have helped facilitate this systematic approach tomeasuring and managing performance. Figure 4 shows the evolution of the balanced scorecard.

Mostly financial operational metrics
All lagging indicators alanced scorecard adopte Most metrics analytics Many quality metrics 12-20 metrics typical Application to education and healthcare and government Customer, financial, internal and growth metrics 30 to 50 metrics common Productivity metrics Scorecards deployed multiple levels All singular metrics All singular metrics All singular metrics Metrics for many levels - not just executives Use of scorecard software Customer & employee annual and based on sur Before 1990's Definition of links between Spreadsheets and Power Points used to review data Scorecards for all employees

Figure 2: Evolution of the Balanced Scorecard

The four perspectives of Balance Score Card

The balanced scorecard views the organization from fourperspectives, develops metrics, collect data and analysesthem relative to each of these perspectives: They are indicated in Figure 5.



Figure 3: The four perspectives of Balance Score



Table 1: The summary of these four perspectives

Sr.No.	Organization four	Description	
1	perspectives Learning and growth	This perspective includes employee training and corporate cultural attitudes related to bothindividual and corporate self-improvement. In a knowledge-worker organization, people are the main resource and in the current climateof rapid technological change, it is becoming necessary for employees to be in acontinuous learning mode. Metrics can be put into place to guide managers in focusingstaff training funds where they can help the most. In any case, learning and growth constitutethe essential foundation for success of any knowledge based organisation. Kaplan andNorton emphasize that "learning" is more than "training" as it also includes things like;mentors and tutors within the organization, things that enable effective communicationamong workers, effective help in problem solving when it is needed and it also includestechnological	
2	Business processes	tools. This perspective deals with internal business processes. Metrics based on this perspectiveallow the managers to determine how effectively their business is operating and whether itsproducts and services are meeting customer requirements. These metrics have to be carefullydesigned by those who are most familiar with these processes. In addition to the strategic management process two kinds of business processes may be identified: core business focused processes; and support processes. The support processes are often more repetitive in nature, and hence easier to measure and benchmark using generic metrics. However, the changing nature of facilities managements ince the introduction of the balanced scorecard means that the two types of processes cannot now be treated in isolation.	
3	Customer focused	The importance of customer focus and customer satisfaction in any business might be regarded sself-evident. If customers are not satisfied, they will eventually find other suppliers that will meet their needs. Poor performance from this perspective is seen as an indicator of potential future decline of the business even though the current financial situation may look good. In developing metrics from this perspective, customers should be analyzed in terms of sector, organizational similarity and the kinds of processes for which the productor service is being provided.	

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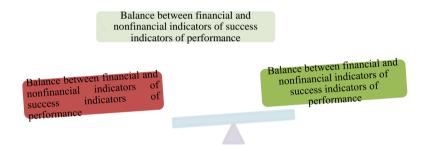
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4	Financial	It is important to note that within the balanced scorecard system	
		Kaplan and Norton donot disregard the need for traditional financial	
		data. Accurate data, which is available asand when needed, should	
		always be a priority. The argument is, however, that emphasis	
		onfinancial data alone leads to the unbalanced situation with regard	
		to other perspectives. It is that the balanced scorecard system	
		seeks to address	

Source: Michael Pitt (2008)

The BSC idea is to communicate a holistic model, linkingindividual efforts and accomplishments to business-unitobjectives because the concept of balance is central tothe system, specifically relating to three areas (Johanson, Skoog, Backlund & Almqvist, 2006) as showed in Figure 4.In 1993 Kaplan and Norton provided some step-by-stepapproach of balanced scorecard.

Figure 4: Balance in the Balanced Scorecard



As described by Kaplan and Norton, the balancedscorecard enables companies to track short-term financialresults while simultaneously monitoring their progress inbuilding the capabilities and acquiring the intangible assetsthat generate growth for future financial performance. Itsaim is to ensure that a broader and more balanced view istaken of the factors affecting business performance. Thisreplaces the focus on financial indicators alone, which could lead to short-term decisions, over- investment ineasily valued assets through mergers and acquisitions with readily measurable returns, and underinvestment inintangible assets, such as produce and process innovation, employee skills and motivation or customer satisfaction, whose short-term returns are difficult to measure.

The balanced scorecard is, however, not simply a measuring device. It can and should be used as a fundamental approach to managing a business by ensuring that strategic goals in key performance areas are defined and communicated to all employees. If this is done, individual goals can be aligned to corporate goals within a clearly defined framework, which can also be used as a basis formeasuring, rewarding and improving their performance.

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METHODOLOGY

The steps required to introduce and operate a balancedscorecard approach are listed in Figure 5.

Figure 5: Steps of Balance Score Card Approach

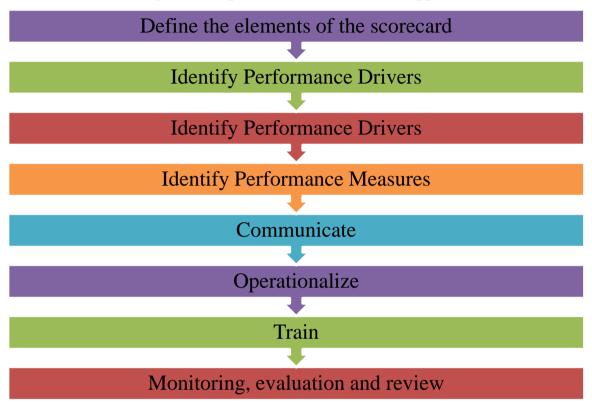


Table 2: Balance score card and application

Author	Year ofPublicatio	Sector/Area/ Application	Application of Balance Score Card
	n		
Hasan, H. and	2000	Strategic	This paper discusses a case study of the implementation
Tibbits, H. R.		management of	J
		electronic	be analysed to suggest how the basic concepts
		commerce	andphilosophy of the balanced scorecard can be retained
			in its adaptation to the strategicmanagement of
			electronic commerce.
Turner, G.	2000	Human Resource	This paper considers, in relation to the human element
		Accounting	of an organization, howit may be possible to strengthen
			the innovation and learning perspective of thebalanced
			scorecard, where the knowledge and skills of employees
			are the principalasset of an organization. This model
			may well be considered the beginning Puxty's (1993)
			long road in search of a planning, control and
			performancemeasurement system that accounts for the
			human element of an organization's intellectual assets.
Olsson, B,	2000	Telecommunicatio	This paper explores the links between aspects of the
Karlsson, M.		n Firm Ericsson	implementation of BSC withobservations with the help
and Sharma, E.			of theories of organizational change.

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Johnsen, A.	2001	Public	In this study it is argued that positive agency theory is a
ŕ		management	relevant theoretical perspective in studies of the balanced
			scorecard in business management becauseagency
			theory addresses implementation and organizational
7	2001		control issues.
Rodney A.	2001	Construction	This paper looks at potential applications and benefits of
Stewart, Sherif Mohamed			using the BSC as aframework to evaluate the performance improvement resulting from IT/IS
Monameu			implementation by a construction organization. The
			paper firstly seeks to adapt theoriginal BSC concept to
			construction and then attempts to develop a
			performancemeasurement framework in the form of a
			tiered "Construct IT" BSC.
Chua, C. C.	2002	Hospitals	This paper discusses a specific case study of a public
and Goh, M.			sector hospital in Singaporeis provided to illustrate how
			the SQA and the BSC can be integrated to help a
			publicsector hospital implement and manage performance-based programs. Throughthis framework,
			hospitals can make better quality decisions based on
			structuredmeasurement and knowledge
Carmona, S	2003	Swedish Law	This paper discusses implementation of the balanced
and Grönlund,		Enforcement	scorecard in police workthis study details concern about
A			the aggregation of non-financial performancemeasures.
Dabhilkar and	2004	Manufacturing	This paper illustrates how strategic continuous
Bengtsson, L		companies	improvement (CI) capabilities were developed in three
			Swedish manufacturing companies that have implemented the Balanced Scorecard (BSC).
Kettunen, J	2005	Management	This paper concludes that the balanced scorecard
and Kantola, I	2003	information	approach is useful not only inaccomplishing the
, -		system	objectives, measures and targets of the institutional
			strategybut also in the planning of the management
			information system.
Kaplan, R. S	2005	McKinsey 7-S	This paper indicates that the BSC model as the
		model	contemporary manifestation of the 7-S model, helping to
			explain its popularity as a practical and effective toolfor aligning all the organizational variables and processes
			that lead to successfulstrategy execution.
Gibler, R. R.	2006	Distribution	The paper gives examples of how one company
ĺ		facility locations	identified their key performanceindicators and applied
			them to the facility closure decision-making process.
Funck, E.	2007	Healthcare	The study indicates that different interests that are made
		organizations	visible within the perspectivesof the BSC without giving
Cimmon I	2000	Ctoloolooldou	priority to one interest over another.
Simmons, J	2008	Stakeholder accountable	The paper identifies the concept of the responsible organization as a means of assessing organizational
		performance	maturity in performance management, and links it to
		management	dimensions of organizational justice.
		systems	
Chavan, M	2009	Australian	The paper concludes that the balanced scorecard
		organisations	approach may require somesubstantial changes in
			culture within the organization. The balanced
			scorecardrequires understanding, commitment and
Yongvanich, K	2009	Thai stock	support from the very top of the businessdown. The study found no significant association between
and Guthrie, J	2009	exchange stock	types of BSC usage and companysize. Also, the extent
and Gamile, J		- Cheminge	of BSC use is not significantly different between
			differentlypes of BSC usage. Further, the extent and
			manner of BSC use are notsignificantly associated with

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			all performance variables.
Foster, A. et al	2010	Foster and Ferguson- Boucher at Aberystwyth University.	This study identified compatibility between the principles identified in the FosterFerguson-Boucher (FFB) model and the principles associated with the balancedscorecard (BSC) technique and Broady-Preston's earlier work. Bringing togetherthe FFB model and the BSC technique the resulting matrix, the Information SituationScorecard.
Aidemark, L. G	2010	Hospital privatisation	This paper discusses the balanced scorecard (BSC) with the attempt to controlboth volumes and health care quality delivered by the private competing contractors.
Lee, J. K and Morrison, A. M.	2010	Web site performance	This paper attempts to use BSC approach to measure the overall effectiveness of the hotel websites, by comparing hotel websites in South Korea and USA.
Jafari. M., Rezaeenour, J., Akhavan, P., and Fesharaki, M. N.	2010	Aerospace industries	The analytical approach identifies eight issues as critical success factors of theknowledge strategy map in this case study. The overall results from the case studyare positive as well, thus reflecting the appropriateness of the suggested SKMMmodel.
Schneider, R. and Vieira, R.	2010	Wind-farm company	The paper identifies the main issues related to performance measurement and presents a BSC designed for a wind-farm company.
Yu-Jia Hu, Yi- Feng Yang, and Majidul Islam	2010	Manager- Employee Relationship	The findings supported the hypothesis that there is a positive and statistically significant relationship between sales managers' transformational leadership and sales associates' job satisfaction. The result identified the predictors of sales managers' transformational leadership on the sales associates' job satisfaction through regression analysis
Smandek, B., Barthel., A., Winkler, J. and Ulbig, P.	2010	Intellectual property (IP) rights	The BSC approach implemented in this paper provides guidelines to reconcileseemingly conflicting requirements for a public entity while at the same time generating economic benefits in terms of additional income from licensing.
Rasila, H., Alho, J. and Nenonen, S.	2010	Operationalizing FM strategies	The paper illustrates how the balanced scorecard can be used in the workplacenetwork. An exemplary goal is derived to the level of numeric measure.
Bigliardi, B. and Dormio, A. I.	2010	R&D	The preliminary result obtained from this case study, that is a BSC model suitablefor R&D, helps in the development of a general BSC model to be tested on a widesample of firms that actively operate in the R&D field.
Zandi, F. and Tavana, M	2010	Electronic business process management (e- BPM)	A case study is presented to demonstrate the applicability of the proposed frameworkand to exhibit the efficacy of the procedures and algorithms. The contribution of the proposed method is threefold: it is grounded in the four perspectives of a BSC, it considers imprecise or vague judgments which lead to ambiguity in the decision process, and it uses a meaningful and robust multi-objective modelto aggregate both qualitative judgments and quantitative data.
Agostino, D. and Arnaboldi, M.	2011	Non-financial companies	The results show the interdependence between the change process, which is influencedby organizational forces, and its outcome.
David Longbottom, and Julie Hilton	2011	Financial services sector	The paper found that service improvement initiatives have focused on the use ofpopular business models, SERVQUAL, balanced scorecard, and European BusinessExcellence Model. Results show that

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			participant perceptions towards thesemodels are generally negative, with a high incidence of failure to achieve expectedresults and negative organizational consequences.
Huang. H. C., Lai. M. C., and Lin, L.H.	2011	Biopharmaceutical firm	The study concludes with implications for theory, research, and practice. Its resultsprovide a logical and reliable way for individual business units to describe and implement their strategies.
Seyedhosseini, S. M., Taleghani, A. E., Bakhsha, A., and Partovi, S.	2011	Auto part manufacturers.	In this research, a systematic & logical method is introduced for the auto part manufacturersto enable them to extract and set criteria for being lean by using the conceptof balance scorecard. There is a cause & effect relationship among the objectivesand draw a lean strategy map for the organization. This will help an organizationto improve criteria selection strategy by using the higher weighted lean objectives.
Northcott, D. and Smith, J.	2011	Performance of New Zealand board	The proposed BSC for the study incorporates multi- dimensional outcome (i.e.lagging) measures. It also recognizes the importance of including subjective measures, rather than focusing on readily quantifiable measures that board membersperceive as less informative.
Garengo, P. and Biazzo, S.	2012	Small and medium-sized enterprises (SMEs)	The authors identify a circular methodology to implement a strategically alignedPMS in SMEs. The proposed methodology is based on the balanced scorecardmodel and features four main phases: (1) the analysis of current 'individual dashboards' to actually show the performances that are kept under control; (2) the clarification of the key success factors (critical success factors (CSFs)) underlyingthe measures under control; (3) the definition of the desired strategy map as a result of the comparison between CSFs that are currently under control and the desired strategy; (4) the translation of the desired strategy map into a dashboard of indicators necessary for the implementation of the strategy. The identified implementation process features key aspects, connecting the actual strategy with theintentional strategy and engaging SMEs in a process of observation and clarification of their future vision.
Danaei, A. and Hosseini, A.	2013	Pipe company.	The proposed study of this paper investigates the existing strategic objectives in the strategy map of a pipe company located in city of Shiraz, Iran. The resultsof our study indicate that the firm could reach 41.4% of its financial objectives,87.38% of its customers' requirements, 66.13% of internal processes and 70.94% of its learning necessities according to four major BSC requirements. In summary, the firm could reach 66.45% of its requirements during the fiscal year of 2011.
Memari, F., Momeni, M., and Ghasemi, A. R.	2014	Application of synthetic technique	Some indexes are necessary for performance evaluation of a managementsystem. Balanced scorecard (BSC) is used in order to extraction of theseindexes for evaluating the necessary performances in the evaluation process. Utilization of BSC causes to prevent in increasing information and data. Furthermore, all of the important indexes are considered in evaluation performance. Data envelopment analysis (DEA) is applied for evaluating the system performance. It is a

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			non-parametric method based on linear programming. This methoduses multiple inputs and outputs indexes. Synthetic application of BSC-DEA causes the weak points of each methodis enveloped using strong points of another one. In the other hand a systematic relation between the methods can be created. In this paper, the BSC-DEA techniques are considered in order to improve the systems performance, synthetic application of BSC and DEA are considered and reviewed
Valmohamma di and Ahmadi	2015	Petrochemical Company	This paper is to present a holistic approach regarding evaluation of knowledgemanagement (KM) practices on organizational performance. The effects of sevencritical success factors (CSFs), namely leadership role, organizational culture, KM strategy, processes and activities, training and education, information technology, and motivation and rewarding system, on organizational performance in the framework of four perspectives of balance scored card (BSC) approach weresurveyed.

CONCLUSION AND SUGGESTIONS

Organisations understand that in order to thrive in acompetitive environment, they must make their processes deliver products and services better, faster, and cheaper. It is crucial for leaders to monitor performance in order to make correct and timely management decisions. Increasing competition and globalization of markets hasled organizations to strive to differentiate themselves from their competitors. Markets are driven more byvalue than cost, forcing organizations to consider quality, customer service, response and other such attributes. This change of focus has generated the need for performance measures to facilitate the control of these attributes (Bourne *et al.*, 2000). Performance measurement is nota one-off activity and should be viewed as a continuum. Measurement and using its output is an on-going effort to identify performance levels against a set of expected baseline performance by meshing strategy with reality and aligning people with goals

Measurement is at the core of process and performancemanagement and is a key enabler for developing and executing organizational strategies and businessgoals. The Balanced Scorecard assists organizations overcoming two fundamental problems: effectively measuring organizational performance and successfully implementing strategy.

Finally, this paper stressed the importance of the word*balance* in the Balanced Scorecard. It represents thebalance among:

- 1. Financial and nonfinancial indicators
- 2. Internal and external constituents of theorganization
- 3. Lag and lead indicators

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This paper highlights the various applications of balancescore card which indicates that the approach is most widelyaccepted for organizational performance in all contextsand almost in every field or sectors. The most importantmanagerial implication of the BSC is that it makespossible to evaluate managerial activities from a broadviewpoint, by looking at both tangible financial aspectsand intangible nonfinancial aspects. BSC having its rootin practical application provides a means of measuringorganizational performance in the new age. Organizationshave been using it for two different but related purposesone for controlling the organization and other as astrategy implementation tool. BSC tries to provide abalance measure of control between past performances indicators (measured by financial perspective) andfuture performance indicators (measured by other threeperspectives viz. Customer, internal business processes and learning and growth). Strategy implementation hasalways been a complex issue for companies as reflected inlow success rate of implementation. BSC gives solutionto the problems related to strategy implementation (viz.linking strategy to organizational goal, bringing all onboard, establishing cause and effect relationship, adaptivelearning or double loop learning.

Upcoming research area could be identifying variables ormeasures under each perspective highlighted in the paperand linking the same with organizational performanceboth in short term and long term using techniques likestructural equation modeling.

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