<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>How Appropriate is the Balanced Scorecard as an Internal Reporting Framework?</td>
<td>Paul Mountcastle, Noel Yahanpath</td>
</tr>
<tr>
<td>21</td>
<td>The Fit of Competitive Strategies, Management Accounting Systems and Information Technology Systems, and its Effect on Business Unit Performances</td>
<td>Diana Zuhroh</td>
</tr>
<tr>
<td>57</td>
<td>ISO 14001 Certification and Financial Performance of Companies</td>
<td>Ong Tze San, Teh Boon Heng, Goh Han Hwa, Thai Siew Bee</td>
</tr>
<tr>
<td>103</td>
<td>Management Control Systems and Corporate Governance: A Theoretical Review</td>
<td>Palka Chhillar, Pradip Banerjee</td>
</tr>
<tr>
<td>129</td>
<td>Enhancing the Accountability of Malaysian Government-Linked Companies through Sustainable Competitive Advantage and Value Creation</td>
<td>Nur Nadiah Zulkarnain, Nik Herda Nik Abdullah, Jamaliah Said, Mohamad Hafiz Rosli</td>
</tr>
</tbody>
</table>
HOW APPROPRIATE IS THE BALANCED SCORECARD AS AN INTERNAL REPORTING FRAMEWORK?

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ABSTRACT

The Balanced Scorecard (BSC) remains a popular strategic management tool. This tool has also been successfully applied in the healthcare industry aside from various business fields. However, the use of BSC in New Zealand lacks evidence, thus requiring further research into the applicability of this tool in the country, especially when the Hawke’s Bay District Health Board (HB DHB) sought to improve its internal reporting framework. In this case, we investigated whether BSC could be applied by HB DHB in pursuing its objective. Given the lack of an international standard for healthcare BSC design, we developed a framework that comprised the appropriate perspectives to meet the needs and internal reporting requirements of HB DHB. BSC was eventually proven suitable for this application, and the framework of Marr (2015) was identified as a suitable framework for such an application. While remaining to the original design of Kaplan and Norton, the framework has been modified to fit the needs of HB DHB by changing the customer perspective to community and by adopting Marr’s positioning of the financial perspective along with three other perspectives to reflect the importance of both financial constraints and objectives to the whole operation.

Keywords: balanced scorecard, internal reporting framework, health services, strategic management
INTRODUCTION

In 2013, the Hawke’s Bay District Health Board (HB DHB) sought to improve its internal reporting framework by adopting the Balanced Scorecard (BSC). International evidence shows a high level of BSC adoption in various businesses (Marr, n.d. cites results from studies by both the Gartner Group and Bain & Co to support his claim that “more than half of major companies in the US, Europe and Asia are using balanced scorecard approaches”). The application of BSC has also been documented in healthcare organizations (Zelman, Pink, and Matthias, 2003, cited in McDonald, 2012) with great success (Al Sawalqa, 2011, Meliones, 2001, cited in McDonald, 2012). However, the following question remains: is BSC appropriate for a healthcare provider in New Zealand? This study seeks to answer this question and proposes an appropriate framework.

The present situation in New Zealand is greatly similar to that in Ontario, Canada, during the 1990s when the country was pressured to increase its efficiency amid health funding constraints. As a solution, the health providers in Ontario adopted the BSC, thus marking the first time that this tool was adopted in the healthcare industry (Zelman, Pink, and Matthias, 2003, Baker and Pink, 1995).

Given the lack of research on BSC use within the New Zealand healthcare sector (with Northcott and France (2005) being one of the very few studies on this matter), we distributed questionnaires to senior finance managers of five DHBs in the country to determine whether they used BSC and whether they benefitted from such a tool.

After determining that BSC was being applied as an internal reporting framework in a New Zealand DHB, we evaluated the possible structures that would be suitable for this application. As BSC use greatly varies across countries, we ensured that the BSC structure of HB DHB satisfied its requirements. Given the capabilities and resource limitations of the organization, we decided that a model that follows the original BSC design of Kaplan and Norton would be most appropriate for HB DHB. Given the limited research in this area, general business principles should be coupled with the HB DHB plan and the New Zealand health objectives to generate the most appropriate BSC design. Several HB DHB staff members were
interviewed to determine the different reporting requirements at each seniority level within the DHB structure.

This research contributes to the literature on BSC use within the healthcare industry by specifically examining the applicability of BSC as a management reporting tool in New Zealand. Moreover, by examining the design of the report framework, this research contributes to the literature on existing and potential BSC frameworks and hopes to intensify the current debates on a healthcare BSC design.

**BACKGROUND**

HB DHB is one of the 20 organizations that provide health services in New Zealand. These publicly funded public organizations are responsible for the health outcomes in their respective geographical areas, with HB DHB covering the Hawke’s Bay province and the Chatham Islands. These DHBs are responsible for achieving the various health objectives set by the Ministry of Health.

These DHBs were implemented through a statute in 2002 to replace the previous Hospital Board structure and to provide and fund health services in their respective districts (Ministry of Health, 2013). To this end, these organizations oversee and fund the general publics (GPs) in their regions through primary healthcare organizations (PHOs), therapists, laboratories, pharmacists, radiologists, and non-government organizations, such as Maori healthcare providers, mental health providers, and residential care providers. Disability support services and some other health services are funded and purchased nationally by the Ministry of Health (Ministry of Health, 2013). HB DHB operates two public hospitals, with the main hospital located in Hastings and a smaller hospital located in Wairoa. They also operate three health centers in Napier, Central HB, and Chatham Islands (HB DHB Annual Plan, 2013/14).

Each DHB is required to prepare an annual plan and a three-year statement of intent that aligns with the current health directives, priorities, and policies in the country. The latest HB DHB annual plan reveals that approximately $214 million will be spent in acquiring services from other providers. The majority of this expenditure will be allocated to the PHOs and other private
providers in Hawke’s Bay, while 24% will be allocated to the acquisition of specialized care services from other DHBs that cannot be provided locally (HB DHB Annual Plan, 2013/14).

However, these DHBs face several challenges. First, their reporting requires input from both internal and external sources. Second, these organizations are required to incorporate the data from the abovementioned service providers into their performance measures. Third, their external reporting must instantaneously address the objectives identified in their annual plans and statements of intent. Fourth, these organizations are required to regularly submit non-financial reports to the Ministry of Health.

Northcott and France (2005) examine a BSC for New Zealand hospitals that was developed as an external reporting requirement for the Ministry of Health in 2000. This BSC contains four perspectives and the following 16 measures (four for each perspective): financial (returns on funds employed, operating margin to revenue, revenue to net funds employed, and debt to debt plus equity ratio), process and efficiency (resource utilization ratio, performance to contract, inpatient average length of stay, patient admission rate, and percentage of eligible elective day case surgeries), patient and quality (overall satisfaction of patients, hospital-acquired bloodstream infections, emergency triage times, and percentage of resolved/closed complaints), and organizational health and learning (voluntary staff turnover, staff stability rate, sick leave rate, and workplace injuries).

The fact that external reporting is based on a BSC framework suggests that a similar framework must be implemented for internal reporting needs to align the internal measures with the external ones. Northcott and France (2005) identify 30 key performance measures outside this BSC, among which 20 are related to activities, 7 are related to outcomes, 2 are related to workforce, and 1 is related to finance. They also identify conflict in the reporting requirements between hospitals and DHBs that prevent BSC from meeting its aim of “supporting health-sector accountability and management.” The existence of other performance measures in New Zealand indicates that DHBs are responsible for the health outcomes outside hospitals.

The current health targets include shorter stays in emergency departments, improved access to elective surgery, shorter waiting times for cancer
treatment, increased immunization, more effective assistance for smokers to quit, and additional heart and diabetes checks (Ministry of Health, 2013).

**METHOD**

We conducted an extensive review of the literature on BSC use in the healthcare industry. Although BSC use has been extensively studied internationally, only a few studies have investigated the application of BSC in the New Zealand healthcare sector. Therefore, we collected data from international and domestic research on the healthcare industry and general BSC application.

Given the limited studies on BSC use in the New Zealand healthcare industry, we developed a questionnaire to obtain quantitative and qualitative responses to questions on the use of and the perceived benefits of using BSC within DHBs. These questionnaires were sent through email to senior finance managers in five DHBs (25% of the total). Four of these DHBs had sizes and scopes similar to those of the HB DHB (Hutt Valley, Waikato, Wellington, and Bay of Plenty), while the fifth DHB (Canterbury DHB) was recently commended by the Auditor General for its reporting standards.

Four staff members from HB DHB with different levels of seniority were interviewed to determine the different information requirements within their organization, to determine the strengths and weaknesses of its existing reporting standards, and to identify the information needs of employees.

**LITERATURE REVIEW**

The literature review was performed from the perspectives of healthcare-industry-specific and general BSC studies conducted domestically and internationally. A higher weighting of importance was placed on healthcare industry research because of the major differences between the commercial application of BSC and that in which finance is more of a constraint than an objective.
At an international level, Pineno (2002); Ghani, Said and Laswad (2010) identify the following benefits that BSC use could provide to businesses:

1. Promoting the active formulation and implementation of organizational strategies;
2. Updating and increasing the visibility of organizational strategies;
3. Improving communication within the organization;
4. Aligning divisional or individual goals with the goals and strategies of an organization;
5. Aligning annual or short-term operating plans with long-term strategies; and

Many studies find that individual companies have achieved success by implementing BSC. For instance, Christesen (2008) cites examples from Kaplan and Norton (2006), and Lawson, Stratton, and Hatch (2003) report that “Almost two-thirds of the survey respondents agreed that significant benefits had been realized from using a scorecard system such as a reduction in overheads of 25% in three years.”

From a national perspective, Blundell, Sayers, and Shanahan, (2003) find that only four studies investigated BSC use in New Zealand. By investigating 40 NZSE companies, they find that 61% and 65% of these companies used BSC in New Zealand at the corporate and divisional levels, respectively. Some similarities are also observed between the objectives of business and non-profit healthcare. According to Pineno (2002), “The objective for the organization is to maximize the margin between the revenue generated by a product’s or service’s value package and the costs of supplying it.” However, the inapplicability of this argument in both commercial and non-commercial sectors is difficult to validate.

When looking for a suitable internal reporting framework for a healthcare provider, one can easily see that BSC meets all the requirements even though this tool is originally developed for businesses (Kaplan and Norton, 1992, cited in Zelman, Pink, and Matthias, 2003). First, BSC measures both non-financial and financial outputs, which are very important because health outcomes are not usually measured in terms of dollars and cents.
How Appropriate is the Balanced Scorecard as an Internal Reporting Framework?

However, the balance makes this instrument ideal for the healthcare sector. By considering four perspectives, this tool fairly reflects both the high-level measurements (financial and customer/community) and the underlying drivers (internal process and learning and growth). The suitability of BSC as a management tool for the healthcare sector is reinforced when compared with the healthcare value chain, as proposed by Schultz (2010). The five links in this chain are aligned with the four perspectives of BSC: high employee satisfaction (learning and growth), high internal quality (internal process), high external quality and high patient/MD satisfaction and loyalty (customer/community), and increased revenue, lower cost, and better margin (financial). Chow, Ganulin, Haddad, and Williamson (1998) note that “well-designed measures aid in communicating the organization’s goals and strategies for obtaining those goals, motivate actions congruent with these goals and strategies, and give feedback and guidance about progress toward these goals,” thus indicating how BSC can evolve into a powerful management tool. According to Greiling (2010), “Inamdar and Kaplan see a high potential for the balanced scorecard in healthcare provider organisations in general.”

BSC was originally developed by Robert Kaplan and David Norton in 1992 to provide a more holistic approach to management; their original design placed the financial perspective at the top a hierarchy of perspectives that include the customer, internal process, and learning and growth perspectives (Kaplan and Norton, 1992). This hierarchical structure reflected their argument that achieving each of these perspective levels would feed upward through the hierarchy and would eventually result in the achievement of financial objectives.

In the following decade, BSC was changed from a measurement system to a strategic management system (Inamdar, Kaplan, and Reynolds, 2002). This change indicated that organizations finally realized the benefits of this tool. Along with such an evolution, businesses began to use strategy maps and other complex tools that were considered not yet investigated in this research. Although HB DHB is a major employer within the region, this operation is considered relatively small by international standards, and any recommendation should be implemented and managed by the organization. Therefore, the complexity of HB DHB lies in the form that can be managed within the capabilities and resources of the organization. The majority of
the staff members of the organization are involved in patient (particularly hospital) activities that involve a relatively small number of administrators. An increased complexity may lead to an imbalance in this area and may prove to be counter-productive.

BSC was introduced in healthcare for the first time in Canada in 1999; the application of this model was used by the University of Toronto as the basis for a model in its 1999 Hospital Report (Zelman, Blazer, Gower, Bumgarner, and Cancilla, 1999). Since then, BSC usage has increased significantly, with many studies citing the adoption of this tool (Marr, 2015, Zelman, Pink, and Matthias, 2003; Ghani, Said and Laswad, 2010) and the improved performance of firms as a result of its implementation (Al Sawalqa, 2011, Meliones, 2001).

BSC has been significantly adapted to suit different healthcare applications (Northcott and France, 2005, Woodward, Manuel, and Goel, 2004). Up to eight perspectives have been included in frameworks and various perspectives have been used in practice (Gurd and Gao, 2008).

The implementation of this tool in Ontario involved the following perspectives:

1. Financial performance and condition (financial);
2. Patient satisfaction (customer);
3. System integration and change (innovation and learning); and

After establishing the suitability of BSC in the healthcare industry, we tested whether this international success sufficiently validates the suitability of this tool for the HB DHB. Given the lack of research on the application of this tool in the New Zealand healthcare industry, we tested whether BSC could suit the purposes of HB DHB.
How Appropriate is the Balanced Scorecard as an Internal Reporting Framework?

FINDINGS

To test whether BSC could provide a suitable reporting framework for HB DHB and benefit the organization, we investigated the use of BSC within the DHBs in New Zealand by developing and distributing a questionnaire. The questionnaire was distributed to the respondents through email, and the respondents were asked to provide quantitative and qualitative responses to several statements, including three questions about BSC use within their organizations. The respondents held senior finance positions within five other DHBs. The rationale for selecting these respondents has been explained earlier in this report. These respondents were asked to indicate the use of BSC within their organizations and to provide their views on the two possible benefits of BSC use as follows:

1. My organization uses the Balanced Scorecard as a management reporting tool.
2. If so, I find this tool beneficial in understanding the performance of my organization.
3. If so, this tool helps my organization achieve its overall objectives.

The respondents were asked to respond to these three statements using a seven-point Likert scale as follows:

0 = not applicable 1 = very strongly disagree
2 = strongly disagree 3 = disagree
4 = neutral 5 = agree
6 = strongly agree 7 = very strongly agree

They were also asked to provide qualitative feedback in the comments section of the questionnaire. All respondents provided comments that added value to the quantitative responses. The other questions sought to elicit responses about the use of activity-based costing, activity-based management, and databases. Some of these responses provided insights into the framework design.

The responses to question one indicated that four of the five DHBs used BSC (response = 7, n = 1; response = 6, n = 2; response 5, n = 1; response 1, n = 1. Average 5.00).
The qualitative responses about BSC use included the following:

“The Balanced Scorecard is fully used in the Provider Arm and in highly abbreviated performance dashboards elsewhere.” (respondent 1)

“We have a well-rounded reporting mechanism that focuses on the vision and strategy of the DHB as a whole.” (respondent 2)

“We have used Balanced Scorecards for some time. We are trying to align the scorecards to the different levels of the organization. They have gotten out of sync as different areas tweak measures for their own use. These scorecards are key tools in reporting to our board.” (respondent 4)

“We use a modified Balanced Scorecard approach that helps us understand the performance of our organization. However, the direct link between the strategy and the objectives of the organization is not yet fully visible because the strategy is not well defined. Given that DHBs tend to have a wide range of activities and objectives, it is difficult to use a Balanced Scorecard to reflect all of their objectives.” (respondent 5)

As indicated in their responses to the other two questions, the four respondents from BSC-using organizations strongly agreed that their BSC use enhanced their understanding of the performance of their organization (average 6.00) and helped their organization achieve its objectives (average 5.75).

The statement, “My organization has a single database for both internal and external reporting purposes,” yielded an average response of 3.20, which indicated the disagreement of the respondents (response = 5, n = 1; response = 4, n = 1; response = 3, n = 1; response = 2, n = 2). When developing this statement, we assumed that internal and external reporting was aligned to allow both internal and external objectives to be linked and communicated throughout various organizations. The respondents indicated otherwise, consistent with the findings of Zelman, Pink, and Matthias (2003), which showed that implementing BSC at times when new information systems should be developed resulted in poor data warehousing
and multiple information systems. Moreover, internal reporting for DHBs relies on data from internal sources and external service providers. At this stage of development, each healthcare provider maintains its own records, thus indicating that HB DHB also deals with multiple sources of raw data. This problem must be addressed when introducing a new internal reporting framework.

Four staff members from HB DHB with different seniority levels were also interviewed to determine the different reporting requirements within their organization and to identify the strengths and weaknesses of their present reporting standards.

The following observations were collected from the interviews:

First, as expected, the reporting requirements varied at different seniority levels within the organization, with the higher levels demanding highly aggregated data, whereas the lower levels demanding operational data, such as staff availability and usage, case statistics, and medicine and treatment information.

Second, a gap in information sharing was observed between external providers and hospital operations. This gap was particularly noticeable between hospital and general practitioners that could be attributed to privacy laws and professional standards. For instance, doctor/patient confidentiality prevents the communication of vital information between GPs and hospital staff. Timmins and Ham (2013) refer to the improvements in Christchurch DHB, particularly its electronic shared care record view as follows: “It is not yet a full electronic health record, rather a portal that draws on existing hospital, GP and other data to provide a very full summary care record that, compared to what is available in many other parts of the world, is still pretty rich.” Moreover, both the questionnaire respondents and interviewees indicated that one of the major problems in their reporting was that their data were not contained within a single database as too many different entities were involved in the healthcare industry of a region.

Third, the HB DHB staff members argued that despite the availability of sufficient information, finding relevant reports was a cumbersome process. The organization also had no structure, as reports were provided by position
and responsibility. This arrangement indicated that the most appropriate reports for individual staff needs heavily depended on the quality of the individual’s contacts in IT services. An interviewee stated that she obtained one of the most useful reports she ever received through a chance comment that was made by another staff member. Another interviewee indicated that many other suitable reports were available in the organization, but she was unaware of their existence ("I don’t know what I don’t know").

**BSC DESIGN**

Unlike in business in which the tool has undergone several evolutions over generations, BSC has been modified, often significantly, for use in the healthcare sector. Several perspectives (up to eight as reported by Gurd and Gao, 2008) with varying labels have been used to satisfy distinct applications (in the case of Ontario, the perspectives of financial performance, patient satisfaction, clinical utilization and outcomes, and systems integration and change have been used) (Zelman, Pink, and Matthias, 2003). These authors identify quality of care, outcomes, and access as perspectives that are commonly added to the BSCs for healthcare organizations.

Hypothesizing that “the” BSC is suitable for implementation in the healthcare sector is difficult because “In healthcare, the BSC scorecard appears more diverse than in other sectors” (Gurd and Gao, 2008). Therefore, if we hypothesize that BSC provides the most appropriate model upon which the internal reporting framework of HB DHB can be based, then what is the most appropriate BSC model? To avoid confusion, one must look at options for the BSC design and develop a model that will reflect the individual needs of HB DHB while considering the findings of Zelman, Pink, and Matthias (2003), which show that the BSC for the healthcare sector must accommodate the needs of many organizations. Given the constraints mentioned earlier in this paper, we follow the original model of Kaplan and Norton as much as possible.

In the interviews, the HB DHB staff members highlighted the aspects in the organization that they deemed most important. In general, the higher-level managers demanded for additional summary information that would enable trend analysis among other feedback. This demand reflected their preference for a *dashboard* than detailed data.
By contrast, hospital managers demanded for additional operational information and were highly concerned about functional information flows, including sharing patient information, staffing matters, and operational data. Therefore, when developing a BSC for a mental health unit, Coop (2006) divides the tool into four quadrants, namely, financial, clinical quality, productivity and learning, and organizational health.

At the highest level, the DHB is required to report externally to the Ministry of Health on specific objectives, and the progress toward these objectives must be communicated throughout the organization. These external objectives revolve around health outcomes (customer-or as we prefer-community) and financial matters (Gurd and Gao (2008) provide an interesting debate on the use of community as a perspective). Northcott and France (2005) agree that adequate financial performance is more of a means than an end to the provision of hospital services. Therefore, these two areas are identified as the high-level perspectives for this model. This structure is consistent with the vision of Kaplan and Norton for a healthcare BSC that places the customer perspective at the top level (Northcott and France, 2005, citing Kaplan and Norton, 2001). Giving equal weighting to the customer and the financial perspectives is not a new trend as suggested by Chan and Ho (2000), who investigated the situation in Canada (Gurd and Gao, 2008). Walker and Dunn (2006) mentioned a similar structure in which these two perspectives are positioned next to each other.

The underlying performance in these areas involves the internal process (how and how efficiently) and the learning and growth (by whom) perspectives. BSC has the ability to tie the objectives and measures in the four quadrants together. Therefore, the staff members at all levels of the organization can readily see the high-level outcomes from their achievement of lower-level objectives. Similar to many publicly funded healthcare models, the financial perspective obviously constrains the other three perspectives, which in turn produce financial outcomes. Greiling (2010) discusses these perspectives and their hierarchy in a BSC for non-profit organizations and notes that the financial perspective operates as a constraint for such organizations.

After determining the importance of the financial perspective, we must develop a model that is similar to that proposed by Marr (2015). In this model, the financial perspective is positioned vertically along with the
other three perspectives, with the customer perspective (community) at the top and the internal processes and learning and growth perspectives at the bottom (see Diagram 1). This arrangement not only indicates that health outcomes (within the community perspective) are the principal output but also recognizes the importance of setting and achieving financial budgets to the organizations. Anecdotal evidence suggests that budget is the most important factor in the operation of DHBs in New Zealand.

In the interviews, the HB DHB staff members mentioned that BSCs were developed for all levels of the organization and that these tools contained many operational (internal process and learning and growth) perspectives while maintaining a financial focus. This arrangement ensures that the effect of achieving non-financial objectives on both the budget and financial objectives is not overlooked at all levels within the organization. Moreover, this arrangement establishes a sense of connection between staff members of various seniority levels and the higher-level objectives. The idea that all staff members are headed toward the same goal is not new. Gunaratne and Plessis (2007) believe that “...in setting goals the overall business objectives should be articulated and transformed into individual and team goals,” while Boswell (2000) contends that “ensuring that employees are knowledgeable of and behaving in alignment with the organization’s strategic direction is of utmost importance, as organizations rely more and more on employees to contribute to the strategic goals.” By analyzing hospital performance data from the New Zealand Treasury, Northcott and France (2005) reveal a “concerning increase in the average cost-per-unit of measured activity,” which indicates that an activity factor should be included in the framework. This suggestion is consistent with the findings of Lawson, Stratton, and Hatch (2003), who argue that “Activity-based costing is a key element of a scorecard implementation.” Recent events in New Zealand, including the Christchurch earthquake in 2011, have shown that DHB service demands are externally generated and are beyond the control of the management. Hutt DHB recently experienced a budget blowout resulting from the unexpectedly high numbers of complex and costly treatments (stuff.co.nz, accessed 11 February 2014), while HB DHB faced budget pressures from the increasing number of patients (Diane Joyce, as reported in the Napier Mail, 1 March 2014). These examples clearly show the fluctuations in activity.

The interview responses of the HB DHB staff members have reinforced the potential usefulness of BSC. As expected, the less senior staff members
required operational information that would typically populate the learning and growth perspective and particularly the internal process perspective. They also identified activity as an important driver in their planning and reporting performance, thus reinforcing the assertion that an activity factor must be included in the framework.

Reviewing the possible variations in the Kaplan and Norton hierarchy requires a focus on causality to determine the suitability of different models. Marr (2015) proposed three variations that replace the customer perspective with stakeholder/outcome in the BSC design of Kaplan and Norton. The financial perspective is simply repositioned to the bottom of the hierarchy in one of these variations and directly below the stakeholder/outcome perspective in another. In both cases, the stakeholder/outcome perspective assumes the top position in the hierarchy.

The third design of Marr retains the three perspectives (stakeholder/outcome, internal business, and learning and growth) in a hierarchy, with the financial perspective positioned vertically alongside these three perspectives (see Diagram 1). This model reflects the reality in the healthcare industry with a high level of reporting, including stakeholder/outcomes (although the term community seems more relevant) and financial. This model reflects the importance of community health outcomes and financial budget in the operations of DHBs within New Zealand.

![Diagram 1: Suggested BSC Structure for the Internal Reporting Framework of HB DHB.](http://www.ap-institute.com/Balanced%20Scorecard.html)

Positioning the financial perspective alongside all the other perspectives reflects that all perspectives contribute to the overall financial outcome, while the financial perspective constrains all the other perspectives. Therefore, a two-way relationship is established in the hierarchy.

CONCLUSION

In any organizational change, the implementation of a BSC reporting system must be carefully managed. “Proper planning of an implementation process can reduce the likelihood of failure and help prevent other undesirable consequences such as reduced employee morale” (Self and Schraeder, 2009, cited in Ray, 2011). To this end, the initial implementation must be at a senior management level because the need for change is mostly identified at this level. The implementation must then be extended to board reporting and to other areas within the organization that supports a more robust reporting system. Given that the roll-out is accepted throughout the organization, the implementation may be extended to other departments and external providers to ensure total commitment and congruence throughout the organization and its constituent parts.

Around 80% of our respondents report that they are using BSC within their organizations. They benefit from their BSC use, consistent with international evidence. Therefore, BSC is a suitable model on which an internal reporting framework for HB DHB can be based. The study also suggests the most suitable BSC applications for HB DHB. The resulting structure remains loyal to the original model of Kaplan and Norton. This structure recognizes the many forms of BSC, which has been applied to many different applications internationally. This study can stimulate further debates on the design of BSCs for the healthcare industry. This debate may be extended beyond the boundaries of New Zealand. The resultant preferred option is based largely on the work of Marr and draws extensively from management theory.

The final model reflects the best practice while recognizing the priorities in the healthcare environment of New Zealand and maintaining realistic interactions among various perspectives. More importantly, this model utilizes the existing resources and capabilities of HB DHB for manageability. The financial perspective, which is vertically positioned alongside the other
three perspectives in the model, is emphasized both as a reporting measure and as an input constraint to the other perspectives. This structure ensures that the progress toward financial objectives is reported at all levels of the organization, emphasizes the importance of budget in the decision making and performance reporting at all levels, and reminds the organizational staff members about their financial constraints and objectives.

Renaming the customer perspective as community reflects the high-level responsibility of DHBs to this group. Although a community may easily be extended to include all stakeholders, most stakeholders act as representatives of the community, particularly members of the government (i.e., Minister of Health) and, indirectly, government departments. Therefore, the term “community” covers these groups adequately. Therefore, as one of the high-level tiers in the hierarchy, the choice of the community has more authority than that of the customer.

Overall, the recommended structure for this BSC framework can effectively satisfy the needs of and the internal reporting requirements of HB DHB. As an extension, this structure also provides a manageable framework that may act as a template for any other DHB that aims to implement a more cohesive internal reporting framework. This framework is also relevant to similar healthcare structures that would like to refine their internal reporting processes.

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