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### SUSTAINABILITY RISK MANAGEMENT (SRM): AN EXTENSION OF ENTERPRISE RISK MANAGEMENT (ERM) CONCEPT



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#### ABSTRACT

*This paper aims to provide an insight of the Malaysian experience in terms of Risk Management practices and the integration of the sustainability as part of the enterprise risk management (ERM). Sustainability has been a paradigm shift in the business operations nowadays. The awareness by most of the companies in the world towards the environmental perils leads to the sustainability development. By emphasizing the sustainability risk management (SRM) and the sustainability agendas as part of corporate strategy, it's not only effecting on the company's financial performance but also maintaining the longer term of survival in the industry.*

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**Keywords:** Sustainability, Enterprise risk management (ERM), Sustainability risk management (SRM), Corporate governance, Company's survival, Malaysia.

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#### Contribution/ Originality

This contributes in the existing literature by highlighting the significance of integrating ERM and corporate sustainability practices in mitigating both known and unknown risks for longer term of survival in the industry in addition to addressing the potential opportunities for improvement in the ERM practices.

#### 1. INTRODUCTION

In ensuring that risk management is effectively implemented, its initiatives have been integrated as one of the important part of corporate governance codes in many countries of the world. Most of the countries, including Malaysia, have introduced their corporate governance codes

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and risk management initiatives. At present, there is an increase of awareness and acceptance of enterprise risk management (ERM) in Malaysia among the industry players. Corporate governance is the strongest external pressure and it has been found as one of the primary reasons for companies to adopt ERM (Kleffner *et al.*, 2003a; Manab *et al.*, 2007). In fact, according to Manab *et al.* (2010) the ERM concept and its efforts have become a growing concern especially among public listed companies (PLCs) in Malaysia. By aligning with the company's strategy and involvement of employees at all levels of the organization, enterprise-wide risk management is considered as a comprehensive approach of risk management by addressing all types of risks in the organization.

However, ERM basically failed to evaluate and identify those risks which inevitably resulted in operational surprises to the company concerned. Some of these risks involve events that rarely occur but could have a critical impact on company's operations once they arise such as of climate change risks, boycott risks, social justice risks, ecosystem risks, toxic-tort risks, and disaster risks. ERM does not take into consideration the environmental and social performance in the company's wide view (Godfrey *et al.*, 2009).

Presently, most of the organisations start looking at sustainability risk management (SRM). This new concept of risk management is an extension to ERM concept. The objective of ERM practices is to increase the shareholders' value. In SRM concept, besides the shareholders' value it also incorporates the environmental and societal aspects for company's survival. The concept of sustainability is broader and not only highlights on the environmental risk but also includes the issues of social responsibility and other important emerging risks such as poverty, stakeholder activism, national security, globalization and reputational risk. The issue of sustainability is now being stressed by the shareholders due to the expanding of social responsible investors (Crump, 2008).

Those companies that merely focus on the profit maximization without taking into considerations the risk costs in the environmental and social responsibility would experience the decline in their profits. Recent developments in the risk management field have highlighted the sustainability risk management which focuses on management of environmental and social responsibility risks (Anderson and Anderson, 2009). Thus, the aims of this paper is to discuss the integration of sustainability as a part of ERM practices and to examine the motivation to adopt the new concept of *sustainability risk management* among environmentally sensitive sectors of Malaysian listed companies.

## 2. RISK MANAGEMENT CONCEPT

### 2.1. Enterprise Risk Management (ERM)

There are many definitions given for the ERM concept. For example, Tilling hast-Tower Perrin defined ERM as in Miccolis and Shah (2000):

*“A rigorous approach to assessing and addressing the risks from all sources that threaten the achievement of an organisation's strategic and*

*objective. In addition, EWRM identifies those risks that represent corresponding opportunities to exploit for competitive advantage”.*

Deloach (2000) defined ERM as:

*“A structured and disciplined approach: it aligns strategy, processes, people, technology and knowledge with the purpose of evaluating and managing the uncertainties the enterprises faces as it creates value.”*

The definitions signify that ERM is a comprehensive approach of risk management by looking at a portfolio view of risks; a process that aligns with the company’s strategy; and involves employees at all levels of the organisation. Its implementation is for the purpose of increasing shareholders’ value. Barton *et al.* (2002) explained the details of the risk management term from the enterprise viewpoint. The term *risk* includes any event or action that will badly affect the ability of an entity or organisation to achieve the desired objectives and strategies. The word *management* that relates to integrated, holistic, corporate, or enterprise-wide risk implies people, technology, and knowledge that are being used in managing all types of risks faced by an organisation in order to create, protect, and enhance shareholder value. The *enterprise-wide* term means that functional, departmental, and cultural barriers are eliminated (Deloach, 2000).

The fundamental concept is every organisation whether profit, non-profit, or government agency, provides value for its stakeholders (COSO, 2003). This had been stressed in the definitions of ERM and in the ERM concept itself. The ERM definition by Deloach (2000) and COSO (2004) and studies done by Miccolis and Shah (2000) and Kleffner *et al.* (2003b) showed the important role of ERM in creating shareholder value in an organisation. Deloach (2000); Stroh (2005) and Panning (2006) agreed that the function of ERM is to drive value creation, either in terms of financial and non-financial aspects. Nevertheless, a study by Fatemi and Glaum (2000) on non-financial firms of PLCs differs from other findings in ERM. The study reports that *ensuring the survival of the firm* is the most important goal, followed by *increasing the market value of the firm*. A study by Manab *et al.* (2010) provides evidence that supports this finding. The result of the study indicates that beside shareholders value, survival is the other reason for PLCs to implement ERM. The result contradicted the theories and other studies which state that maximizing shareholder value is the ultimate goal in implementing risk management. Most of the companies are now realizing the efficient management of risks is essential for their long-term survival. Therefore, they are now getting ahead in implementing ERM to sustain and accomplish their business goals (Frigo *et al.*, 2011).

## 2.2. Sustainability Risk Management (SRM)

Current risk management approach or ERM hardly assess the emerging risks and other non-quantifiable risks arising from unforeseeable events. In fact, sustainability issues are still not encompassed in the ERM strategy (KPMG International, 2011). The awareness towards the environmental perils by most of the companies in the world leads to the sustainable development.

Sustainability has been a paradigm shift in the business operations nowadays. According to [Swiss Reinsurance Company \(2012\)](#) “Sustainability risks are ethical concerns related to environmental and socio-economic impacts of our business transactions and the reputational risks they may entail”. In order for the companies to reach the sustainability goals, a systematic process needs to be developed by the companies to identify sustainability risk ([Heinrich et al., 2010](#)).

The implementations of sustainability capture three significant values consist of growth, return on capital, and risk management. A company who fails to manage risk associated with sustainability will be imposed large fines by the regulators and corporate reputation is tarnished. The growth and return on capital of the company enhanced with the sustainable strategy implemented by the company ([Bonini and Gorner, 2011](#)). Most of the risk management practices focus on the quantitative analysis; SRM encompasses risks to the reputation deriving from social, environmental, and economic impacts ([MacDonald, 2011](#)). According to [Anderson \(2007\)](#) “Sustainability risk management deals with risks emanating from the environmental and corporate social responsibility areas”. SRM refers to managing all corporate risks related to social, environmental, and economic aspects ([Yilmaz and Flouris, 2010](#)). Definitely, SRM is a process which addresses and manages a broad spectrum of unknown and new risks derive from sustainability issues to achieve sustainable value for a long-term survival. Due to complexity of risks facing by the business, SRM should be encompassed in the ERM framework ([Anderson and Anderson, 2009](#)). This view is also supported by [Gardiner and Endicott \(2011\)](#) who suggested that the sustainability should be integrated as a critical part in the ERM. The failure to incorporate the three components of sustainability which are economic, social, and environmental aspects leads to ineffective performance in the long run.

### 3. SUSTAINABILITY RISK MANAGEMENT PRACTICES IN MALAYSIA

Presently, most of the Malaysian companies are aware of the sustainability issues. This can be shown through the sustainability activities performed by most of the companies in Malaysia. Malaysian government dynamically contributes commitments towards sustainability. Sustainability also being is highlighted as the main goals in the New Economic Model presented by our Prime Minister, Dato' Sri Najib Tun Razak.<sup>1</sup> Furthermore, the Malaysian Code on Corporate Governance 2012 ([Securities Commission, 2012](#)) requires the Board to promote the sustainability in the company's strategies for the long survival. It is also recommended that all listed companies to disclose their policies on sustainability and the implementation of it in their annual reports and websites. The code provides an opportunity for all companies in Malaysia to integrate the environmental, social and governance aspects in their companies' strategies in order to ensure the longer survival of the company and increase the expected firm value.

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<sup>1</sup> [http://www.bursamalaysia.com/website/bm/sustainability\\_portal/introduction\\_sustainability.jsp](http://www.bursamalaysia.com/website/bm/sustainability_portal/introduction_sustainability.jsp)

### 3.1. ERM Practices

Essentially, the risk management concept and its efforts have become a growing concern among PLCs in Malaysia. A study on ERM practices in Malaysia has been done in 2009 by Manab (2009). The study used a triangulation approach to examine the extent of ERM practices among financial and non-financial of services listed companies. A total of 55 companies had participated, which comprised 14 financial companies and 41 non-financial companies. The senior manager, risk manager or internal auditor of the unit, who is heavily involved and responsible for the organisational risk management, was selected to answer the questionnaire and interviewed for the case study. From the survey conducted for this study, 94.5 percent of the PLCs agreed that risk management has become a main concern in their daily operations. Even though most companies appear to have moved from the traditional risk management (TRM) concept to ERM; still, there are some companies that have apparently implemented risk management subconsciously in an unstructured and unfocused way.

Corporate governance and compliance are vital mainly at the initial stage of ERM implementation. From the survey, 94.6 percent of PLCs reported that their ERM initiatives are driven by corporate governance. In fact, improved corporate governance is the most selected reason for all non-financial companies (100 percent) to adopt and implement ERM and in financial companies it is among the main motivation factors. In addition, the result of *p* value showed that improved corporate governance had a significant difference between the types of sector at the 10 percent significant level ( $p = 0.061$ ). This was due to most of the companies generally perceived that improved corporate governance had a greater significance in successfully adopting the ERM practices. Based on findings from a case study, the companies that have been considered successful in implementing risk management are not only being driven by corporate governance and compliance, but also they are driven by good business practices, and value creation. Survival is cited as a motivating factor in the financial sector.

**Table-1.** Percentages of PLCs with ERM Drivers According to Type of Company

EWRM Drivers	Percentage within Type of company		'p' value
	Financial	Non- financial	
Compliance	85.7	75.6	0.351
Mandate from BOD	57.1	75.6	0.165
Shareholders value	78.6	73.2	0.494
Technology	7.1	4.9	0.594
Improved decision making	85.7	68.3	0.182
Improved corporate governance	85.7	100.0	0.061*
Improved communication	21.4	14.6	0.413
Globalisation	7.1	9.8	0.623
Competitive pressure	7.1	7.3	0.735
Stakeholder pressure	0.0	4.9	0.552
Good business practice	85.7	65.9	0.141

\*Significant at 10 percent

The study discovered that ERM is found to be a good starting point for risk management efforts. There are a lot of weaknesses that block the abilities of people from quantifying risks. ERM approach is a process that involved all people at all levels of the organisation, and the objective of its implementation to create value was failed. The ERM concept is more general, which focuses more toward operational risks rather than a specific type of risks. There is lack of core people who acquire statistical numerical competency. Such capability is necessary to quantify the risks and to be able to create values. Failure to achieve the objective of value creation and survival would mean that the implementation of ERM is more of following the risk management trend.

### 3.2. SRM Practices

Besides ERM practices, Malaysia was ranked as a third place out of ten countries (Korea, India, Malaysia, Thailand, Singapore, Indonesia, Taiwan, Hong Kong, Philippines, China) in the [Asian Sustainability Rating \(2010\)](#) by Responsible Research and CSR Asia.<sup>2</sup> This shows that most of the Malaysian companies realized the importance of sound governance and responsible business practices. Consequently, a current study is conducted to examine the SRM practices among environmentally sensitive sectors of Malaysian listed companies such as manufacturing, construction, oil and gas, and plantation. This paper discussed the early findings of the study which focused on the stages of ERM implementation, as SRM is an extension of ERM and the motivation or the reasons for the companies to implement SRM.

From a survey analysis on 53 companies, 60.4 percent of the companies mentioned that their ERM program was fully implemented across the organization. While, 28.3 percent was partially implemented across the business segments and the remaining of 11.3 percent was at the early stage of implementation. This indicates that the some of the environmentally sensitive sectors of Malaysian listed companies are still improving their risk management practices and not ready for SRM practices yet. However, in terms of the driven factors of SRM implementation, the reasons of the companies to implement SRM was not only for corporate governance compliance (71.7 %) but also because of good business practices (71.7 %), and improved decision making (69.8 %). This in line with [Laszlo \(2008\)](#) that good business practice is the influencing factor for companies to adopt SRM in achieving sustainable competitive advantages.

The driving factors were further examined according to the sectors as showed in Table 3. Good business practice (100 %) has become a main factor for companies in plantation sector to adopt SRM and followed by manufacturing sector (76.2 %). Improving risk based decision making is the reason for construction's companies to adopt SRM. Meanwhile, corporate governance compliance (90 per cent) is a main motivation factor for companies in oil and gas sector to adopt SRM.

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<sup>2</sup>Asian Sustainability Rating 2010 <[http://www.asiansr.com/Sustainability\\_in\\_Asia\\_\\_\\_ESG\\_Reporting\\_Uncovered.pdf](http://www.asiansr.com/Sustainability_in_Asia___ESG_Reporting_Uncovered.pdf)>[accessed on 12 July 2012]

**Table-2.** Percentages of PLCs with SRM Driving Factors

SRM Drivers	Percentage
Good business practice	71.7
Corporate governance compliance	71.7
Improve risk-based decision making	69.8
Regulatory compliance	64.2
Operational effectiveness	54.7
Board of Directors (BOD) request	32.1
Long-term shareholder value	26.4
Occurrence of unexpected risk events	24.5
Value added function	22.6
Corporate reputation	18.9
Technological advancement	5.7
Competition	5.7
Stakeholder pressure	1.9

**Table-3.** SRM Driving Factors According to Sectors

SRM Drivers	Percentage within Type of Sector				'p' value
	Manufacturing	Construction	Oil & Gas	Plantation	
Good business practice	76.2	61.1	70	100	0.424
Improve risk-based decision making	76.2	72.2	50	75	0.500
Comply with regulatory	66.7	66.7	60	50	0.912
Technological advancement	9.5	0	0	25	0.617
Corporate governance compliance	52.4	89	90	50	0.028**
Occurrence of unexpected risk events	33.3	11.1	30	25	0.425
Corporate reputation	14.3	16.7	20	50	0.410
Board of Directors (BOD) request	23.8	55.6	40	25	0.700
Operational effectiveness	57.1	61.1	50	25	0.601
Long-term shareholder value	43	11.1	30	0	0.086*
Competition	9.5	4.8	0	0	0.699
Stakeholder pressure	0	0	0	25	0.006***
Value added function	14.3	22.2	30	50	0.414

**Note:** \*\*\*significant at 1 percent, \*\*significant at 5 percent, \*significant at 10 percent

Based on the findings, it showed that the integration between sustainability and risk management not only strengthen the corporate governance, but also, most importantly, it ensured the survival of the company. Generally, the practice of sustainability in Malaysia is still at an early stage and the encouragement towards the environmental initiatives by the Malaysian companies is critically needed.

There was an association between stakeholders, pressure and type of sectors at the 1percent significance level ( $p = 0.006$ ) . The result indicated that the industrial sectors exposed more to the environmental risk and were tend to receive greater pressures from the stakeholders as mentioned by [González-Benito and González-Benito \(2006\)](#). In addition, there was a relationship between corporate governance compliance and type of sectors at the 5 per cent significance level ( $p =$



0.028). Complying with the corporate governance requirements is essential for a company to identify sustainability risks and opportunities in fulfilling stakeholder's needs and in align with the study by [Benn et al. \(2009\)](#). Lastly, there was also an association between long-term shareholders value and type of sectors at the 10 per cent significance level ( $p = 0.086$ ). According to [Jondle et al. \(2013\)](#) the integration of ethical values in risk management would be an advantage to the company to strategically protect the shareholder value in the long term.

#### 4. CONCLUSION

This paper has provided the insights of the sustainability in addressing the potential opportunities for improvement in enterprise risk management (ERM) practices. Based on the various literatures, it can be anticipated that the integration of sustainability in the risk management provides the opportunities for the businesses to boost their profit as well as demonstrates the environmental and social awareness. The result of the ERM study shows in terms of the empirical evidence on the weaknesses of ERM practices. The study suggested for the improvement by integrating ERM with sustainability as not only for creating value but also for company's survival. The current study on SRM practices shows that most of the Malaysian listed companies especially in plantation sector realized the importance of SRM as for good business practices and the adoption of SRM is not only be driven by corporate governance compliance. Thus, the integration of sustainability into the business plan would help Malaysian companies to manage environmental, social and financial risk efficiently. In essence, the sustainability encourages the better lives for people, preserve the world's environment as well as ensure the longer term of company's survival.

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