Evaluation of the Level of Enterprise Risk Management Adoption and Maturity of insurance Companies in Kenya

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Abstract

Purpose: The purpose of this study was to evaluate the extent to which insurance companies in Kenya have adopted ERM process, and then to assess the maturity, challenges and strategies in the implementation of this process.

Materials and methods: The research design adopted for the study is descriptive research. The researcher conducted a survey on the 49 insurance companies of Kenya to encapsulate the factors that are relevant in articulating the extent of adoption of ERM and the level of maturity. A sample of 196 respondents was selected from a population of 245 respondents. The study used quantitative and qualitative methods of data analysis. Statistical Package for Social Sciences (SPSS) version 20 program was used for analysis. The results were presented using tables and pie charts. Similarly, qualitative data was summarized and categorized according to common themes and presented in continuous prose form.

Results: The study concluded that organizational related challenges hindered implementation of ERM programs. Results revealed that inadequate application of the risk management framework, ambiguity in roles and responsibilities in risk management, complexities in risk measurement, lack of embodiment of ERM in organizational culture, difficulty in risk quantification, linking risk information to strategic decision making, ensuring that all decisions remain within the organization’s risk tolerance, proactively identifying current and emerging risks, cost and budgetary constraints, misalignment of the risk and business operating models, risk management not seen as a priority by top management and inadequate information to make risk-based decisions hindered implementation of ERM frameworks among insurance firms in Kenya. The findings imply that organization related challenges have a significant effect on ERM implementation.

Recommendations: The study recommends that there should be better organizational strategies to help improve implementation of ERM programs. It was found that building a strong risk
culture, engaging consultants, building a dedicated ERM function, committed board of directors and top management, developing risk appetite statement, appointment of a Chief Risk Officer (CRO) and availing ERM budgets improved the implementation of ERM programs.

**Key words:** enterprise risk management, adoption, maturity

1.0 Introduction

1.1 Background of the Study

Enterprise Risk Management (ERM) has been a developing area of practice for actuaries for over 10 years. Advisory Committee on Enterprise Risk Management produced a report that recommends areas of research and education that are needed by actuaries entering this emerging field (D’Arcy & Brogan, 2001). The SOA, (2002) formed a Risk Management Task Force that wrote guides to Economic Capital and Enterprise Risk Management practice as well as initiating several research projects. The task force evolved into a new Risk Management Section of the Society of Actuaries (SOA, 2004) and became the first and largest joint activity in 2005 when it became the Joint Risk Management Section cosponsored by the SOA and the Canadian Institute of Actuaries (CIA). The Joint Risk Management Section has been tightly linked with an annual ERM Symposium event that started as a joint activity of the SOA and the Professional Risk Managers’ International Association (PRMIA).

Effective risk management can bring far reaching benefits to all organizations, whether large or small, public or private sector (Ranong & Phuenngam, 2009). A recent study by Hoyt and Liebenberg (2011) provides evidence of the value relevance for insurance companies. They estimated the effect of ERM using Tobin’s Q and find a positive relationship between the use of ERM and firm value. The ERM premium of roughly 20% is both statistically and economically significant. Some research papers present evidence to indicate that ERM improves firm performance (McShane, Nair & Rustambekov, 2011). ERM is value adding to firms by enabling objective capital allocation as a result of risk-return tradeoff assessments, as well as by mitigating financial risks and exploiting business risks which in turn leads to gaining and maintaining competitive advantage (Hoyt & Liebenberg, 2011). US-based studies of the financial sector Hoyt and Liebenberg (2011) found that US insurance firms adopting ERM were likely to lower their marginal cost of adopting risk.

The trend towards the adoption of ERM programs is attributed to a combination of external and internal pressure. Manab, Kassim and Hussin (2010) argued that the reasons for an organization to adopt between the formal or informal RM approach is due to the RM adoption drivers such as corporate governance, compliance to regulations, technology advancements and competitive advantage. Based on the RM adoption drivers, the implementation of RM practices is dependent upon the firm and industrial factors, internal factors, and external factors (Ismail, Rose, Uli & Abdullah, 2012)

1.2 Statement of the Problem

According to COSO ERM Frameworks study, ERM is already an accepted approach to deal with business wide risks; however the stage of most ERM systems is still very immature. Although the idea of ERM has gained widespread acceptance as a key component of effective governance, organizations vary in the extent to which they have adopted it. According to Paape and Speke

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(2012), some organizations have invested in sophisticated ERM systems, whereas others rely on rather ad hoc responses to risks as they become manifest. A research conducted by Ernst & Young (2012) revealed that organizations with greater risk management maturity outperform their peers financially. Only a few organizations have implemented a systematic, robust and repeatable process of ERM. A large number of organizations is still not satisfied with their process of risk assessment and need further guidance in implementing ERM (Beasley, Branson & Hancock, 2010).

Mature risk management companies are companies that are very capable of identifying, measuring and monitoring risks across their organizations; process these risks dynamically and can easily adapt to change. These companies also align their risk management process with their strategic objectives efficiently and effectively (AON, 2013). Risk maturities models have been developed to measure the level of ERM maturity. Zhao, Hwang and Low (2013) developed an enterprise risk management maturity model (ERMMM) consisting of 16 important ERM maturity criteria and presented 66 applicable best practices under these criteria and this can be applied in companies to measure maturity and identify areas of improvement.

ERM studies such as Wanjohi and Ombui (2013); Yegon, Mouni and Wanjau (2014), Waweru and Kisaka (2012) have been conducted in the financial market of Kenya and mainly cover banking institutions and listed companies and only a few cover the insurance sector. Furthermore, the maturity of ERM has not been tested in the studies that have measured the value of ERM implementation. It would follow then that management would be interested to know the level of maturity of their risk management programs and what strategies can be put in place to improve the ERM practices so that the company can derive value from it. Therefore, this study addressed this knowledge and management gap as a direct relationship exists between ERM maturity and value derived from the program.

1.2 Research objective

To determine the level of maturity of the ERM programs

1.4 Scope of the Study

The study targeted all insurance and reinsurance companies in Kenya. The study entailed a questionnaire survey with the requisite criteria to measure the level of ERM maturity. Data collection phase was conducted in the month of May 2015. There was a possibility of not receiving responses from all the respondents sampled. To mitigate this, follow up calls was made and interviews arranged to increase our response rate. Further, to mitigate against possibility of question misinterpretation, the questionnaire was tested with a few risk managers who assessed areas that were not clear. Alternatively inconsistencies were followed up with follow up interviews.

2.0 LITERATURE REVIEW

2.1 Enterprise Risk Managements Frameworks

This section provides literature review analysis of enterprise risk management basing arguments on ERM Frameworks, Risk Management Maturity levels, strategies and challenges in the implementation of ERM. Enterprise Risk Management is a globally accepted and growing field.
As a result, a number of risk frameworks and statements have been published by professional organizations around the world. Some of the publications urge businesses to use these frameworks. The ERM Process is the time-tested foundation of risk management methodology, pioneered by the risk management discipline and detailed in the Associate in Risk Management (ARM) designation program (Framework, 2004). Some of the ERM frameworks include; The Combined Code and Turnbull Guidance. The Code states that the role of the board is to provide a framework of effective control so that risk is assessed and managed. The board is also required to review the effectiveness of controls, including all controls over financial, operational, and compliance areas as well as risk management systems (McCrae & Balthazor, 2000). This framework was published in 2002 to promote corporate governance and has 5 sections including Board and directors, Risk management, internal audit, integrated sustainability reporting and accounting. According to this framework, the board is responsible for the risk management process and its effectiveness.

2.2 ISO 31000: 2009, Risk Management - Principles and Guidelines

ISO 31000: 2009, Risk Management framework is also among the common risk management frameworks used. While all organizations manage risk to some degree, this International Standard establishes a number of principles that need to be satisfied to make risk management effective. This International Standard recommends that organizations develop, implement and continuously improve a framework whose purpose is to integrate the process for managing risk into the organization's overall governance, strategy and planning, management, reporting processes, policies, values and culture (ISO, 2009).

Zhao, Hwang, & Low (2013) developed an enterprise risk management maturity model (ERMMM) consisting of 16 important ERM maturity dimensions or criteria and presented 66 applicable best practices or sub-dimensions under these criteria. The ERM maturity criterion scores can provide the management staff with a clear understanding of their strengths and weaknesses of the ERM implementation.

2.3 Standard and Poor's, (IMA, 2011)

Standard and Poor’s, (IMA, 2011) is another ERM framework that has already started to incorporate the company’s ERM practice into the Standard and Poor rating of the company. It currently applies this rating to both financial institutions and insurers. Its framework for evaluating ERM at banks includes a review of ERM policies, ERM infrastructure and ERM methodology. ERM policies should address risk culture, appetite and strategy, control and monitoring, disclosure and awareness. ERM methodology refers to capital allocation, model vetting and valuation methods. ERM infrastructure covers risk technology, operations and risk training. The framework for evaluating insurers includes an assessment of risk management culture, risk controls, emerging risk management, risk and capital models and strategic risk management. Standard and poor rates for the insurer can be rated as weak, adequate, strong or excellent. An adequate rating would mean an insurer has fully functioning risk control systems.

2.4 The King II Report on corporate governance for South Africa (2002)

The King II Report on corporate governance for South Africa (King II Report, 2002) was published to promote corporate governance. The report consists of five sections including; Board of directors, risk management, internal audit, integrated sustainability reporting and accounting
and auditing. It also includes an appendix on risk management and internal controls. According to the report, the board is responsible for the risk management process and its effectiveness. It sets risk strategy policies, assessing the risk process assessing the risk exposures, such as physical and operational risks, human resource risks, technology risks, business continuity and disaster recovery, credit, market risks and compliance risks, reviewing the risk management process and significant risks facing the company and be responsible for risk management disclosures.

3.0 RESEARCH METHODOLOGY
The research design adopted for the study is descriptive research. According to the Insurance Regulatory Authority of Kenya report of 2014, there are 49 licensed insurance companies in Kenya. The target population of this study comprised of chief risk officers, heads /directors of risk, chief internal auditors and compliance officers from the sample 49 insurance companies. Probability sampling was used in sample selection so as to avoid selection bias. Particularly, simple random sampling was used to pick the sample size. The data was coded and input by the use of a data capturing software and exported to statistical package SPSS. Data inputs were cleaned by checking for consistency and validity. It underwent a data preparation process where the data was coded, edited and cleaned.

The data was quantitative in nature therefore descriptive statistics, frequencies, percentages and rank was used to analyze the data. The overall RMM score for a particular organization was obtained by aggregating scores of individual dimensions by using a simple averaging method. An individual dimension score, in turn, was computed by using the similar procedure of corresponding sub dimensions. The score of a sub dimension was calculated by using a factor score method. A factor score method suggests that the sub dimension score is calculated by summing up the weighted value of item responses. The weighting factor is derived from the item’s factor loading of the factor analysis. The mean scores were then ranked to see which of the ERM maturity factors is the most prominent. Data analysis results will be presented in tables.

4.0 RESULTS PRESENTATION AND DISCUSSION

4.1 Data Analysis

4.2 Response Rate
A total of 196 questionnaires were printed and distributed to the identified respondents. Table 1 showed the total number of questionnaires distributed where 155 were properly filled and returned. This represented a response rate of 79.1%. According to Mugenda & Mugenda (2003) and Kothari (2004) a response rate of 50% is adequate for a descriptive study. Babbie (2004) also asserted that return rates of 50% are acceptable to analyze and publish, 60% is good and 70% is very good. Based on these assertions from renowned scholars 79.1% response rate is adequate for the study.

Table 1 Response Rate

<table>
<thead>
<tr>
<th>Category</th>
<th>Returned</th>
<th>Unreturned</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chief Risk Officers</td>
<td>40 (81.6%)</td>
<td>9 (19.4%)</td>
<td>49 (100%)</td>
</tr>
</tbody>
</table>
Heads /Directors Of Risk  35 (71.4%)  14 (28.6%)  49 (100%)
Chief Internal Auditors  42 (85.7%)  7 (14.3%)  49 (100%)
Compliance Officers  38 (77.6%)  11 (22.4%)  49 (100%)
Total  155 (79.1%)  41 (20.9%)  196 (100%)

4.3 Demographic characteristics
This section contains results on socio-demographic characteristics of the respondents. These characteristics include; type of the company, size of the company, department of the respondent, position of the respondent and number of years the respondent had worked.

4.3.1 Type of Business
Majority (50%) of the insurance firms analyzed specialized on General insurance. Twenty nine percent (29%) of the insurance firms were specializing on Composite insurance while the remaining 21% were dealing with Life insurance.

<table>
<thead>
<tr>
<th>Type of business</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Insurance</td>
<td>50%</td>
</tr>
<tr>
<td>Composite Insurance</td>
<td>29%</td>
</tr>
<tr>
<td>Life Insurance</td>
<td>21%</td>
</tr>
</tbody>
</table>

Figure 1 Type of Business

4.3.2 Size of the Company
Majority (39%) of the Insurance companies were between size Ksh2Bn-Ksh4Bn by worth. Twenty nine percent (29%) of the Insurance firms were in between Ksh5Bn-Ksh9Bn by size, twenty seven percent (27%) had Ksh 10Bn and above with only 5% of the insurance firms being Ksh1Bn and below by size.

<table>
<thead>
<tr>
<th>Size of Company</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>KShs 1Bn and below</td>
<td>5%</td>
</tr>
<tr>
<td>KShs 2Bn to 4Bn</td>
<td>39%</td>
</tr>
<tr>
<td>KShs 5Bn to 9Bn</td>
<td>29%</td>
</tr>
<tr>
<td>KShs 10Bn and above</td>
<td>27%</td>
</tr>
</tbody>
</table>
4.3.3 Department of the Respondent
Respondents were asked to indicate the department they were working in.

**Figure 2 Size of the Company**

4.3.4 Position of the Respondent
Respondents were asked to indicate their positions in their respective Insurance firms. Majority (33%) were in the Mid-level Management, 32% were in the Top Management with only 18% and 17% in the Lower level Management and Operations respectively.

**Figure 3 Department of the Respondent**
Majority thirty nine percent (39%) were in the Audit and Risk department, 26% of the respondents were in the Finance department, 25% in the Underwriting department with only 10% in the Claims department.

4.3.5 Number of Years Worked
Further respondents were asked to indicate the number of years worked in their Insurance companies. Majority (34%) had worked for a period of between 2-3years, 23% had worked for 4-5years. Twenty two percent (22%) had work experience in their companies of 6years and above while 21% had less than 1year work duration.

**Figure 4 Position of the Respondent**
4.5 Level of maturity of ERM Programs

Analysis of the level of maturity of the ERM Programs was done and presented as shown in the table 3. Most insurance firms were “Normalized” with 69.9%. Insurance firms at “Novice” level had 12.2%, “Natural” level at 11.2% and “Naïve” at 6.6%.

Table 3 Level of maturity of ERM Programs

<table>
<thead>
<tr>
<th>Level of maturity</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naïve</td>
<td>6.6</td>
</tr>
<tr>
<td>Novice</td>
<td>12.2</td>
</tr>
<tr>
<td>Normalized</td>
<td>69.9</td>
</tr>
<tr>
<td>Natural</td>
<td>11.2</td>
</tr>
<tr>
<td>Total</td>
<td>100</td>
</tr>
</tbody>
</table>

5.0 DISCUSSION, CONCLUSIONS AND RECOMMENDATIONS

5.1 Summary

Results indicated that most insurance firms were at level “Normalized” with 69.9%. Insurance firms at “Novice” level had 12.2%, “Natural” level at 11.2% and “Naïve” at 6.6%. These findings agree with those of previous work done. Maturity models offer organizations a simple but effective method to measure the quality of their process. The concept of “maturity” applies to organizations at a state where the entity is in perfect condition in achieving its objectives. This elaborates that maturity models are used in numerous industries for the purposes of assessment and benchmarking as they allow organizations to measure their relative performance position on a pathway to maturity representing an optimal state. Risk maturity models are useful tools in understanding the degree of sophistication of a business risk management process, its reliability and effectiveness in identifying, assessing and managing risks and opportunities (Collier & Esteban, 2007).
5.2 Conclusions
It was possible to conclude that organizational related challenges hindered implementation of ERM frameworks. It was also possible to conclude that certain strategies could be used to mitigate the above mention organizational challenges and implement ERM frameworks. Results revealed that building a strong risk culture, appointment of a Chief Risk Officer (CRO), developing risk appetite, building a dedicated ERM function statement, availing ERM budgets, engaging consultants and board of directors and top management commitment would help in the implementation of the Enterprise Risk Management among insurance firms. The findings imply that strategies have a significant effect on ERM framework implementation. Results revealed that a good and effective ERM framework leads to better implementation of Enterprise Risk Management strategies reducing financial risks that banks face in Kenya. The findings imply that ERM frameworks have a significant effect on Enterprise Risk Management. Results indicated that most insurance firms were at level “Normalized” with 69.9%. Insurance firms at “Novice” level had 12.2%, “Natural” level at 11.2% and “Naïve” at 6.6%. This implies that level of maturity for most insurance firms is normalized.

5.3 Recommendations
The ISO 3100: 2009 should be adopted by the insurance firms as it is the most preferred while BS 31100: 2008 and OCEG “Red Book” 2.0: 2009 frameworks should be looked into to establish the reasons why they are least rated frameworks in the insurance industry. Insurance firms should be encouraged to adopt “Normalized” level of maturity as this level seem to be the most appropriate. Improvement of the existing policies coupled with development of new policies should be adopted so as to resolve the main challenges faced by insurance firms in implementing ERM. The insurance firms should employ the strategies that include building a strong risk culture, appointment of a Chief Risk Officer (CRO), developing risk appetite, building a dedicated ERM function statement, availing ERM budgets, engaging consultants and board of directors and top management commitment to curb the organizational related challenges that it faces when implementing Enterprise Risk Management.

5.4 Recommendations for Further Studies
The study recommends that further investigation be done on the benefits of Enterprise Risk Management among insurance firms in Kenya and adopting more and better strategies and ERM frameworks. The study also recommends that a similar study be undertaken in other state agencies and corporations to mitigate business risks. The study can also be replicated in non-governmental organizations such as the United Nations.

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