RELATIONSHIP BETWEEN RISK PREVENTION AND PERFORMANCE OF THE PROJECTS IN NGOS IN SOUTH SUDAN. A CROSS-SECTIONAL CASE STUDY OF SAFE NETWORK PROJECT IN ACTION AFRICA HELP INTERNATIONAL.

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Abstract

Background

The implementation stage of the project is the benchmark for measuring the performance of a project this is because it provides a guideline for how the project will run. The study aims to assess the relationship between risk prevention and the performance of the projects in NGOS in South Sudan.

Methodology

The study applied a cross-sectional survey design, which applied both stratified and simple random sampling procedures. Questionnaire and interview methods were used for collecting primary Data where closed-ended questions were used. SPSS Statistical package analysis was used, and data was summarized in tables with the aid of frequencies and percentages.

Results

1.67% of the respondents among the projects in Nairobi City County were secondary school graduates, 10% had college diplomas, 67.5% were university undergraduates, and 20.83% had post-graduate qualifications. 54% indicated that risk prevention to a very great extent affects project performance, 33% indicated that it to a great extent, 9% stated that it was to a moderate extent, 3% indicated that it was to a small extent and 1% indicated that risk prevention didn't have any effect on project performance. The organizations encourage the use of a detailed work plan to ensure no event leads to delays in projects, and the organizations train project teams to ensure that projects run within the allocated schedule as indicated by a mean of 3.71, 3.66, and 3.91, respectively.

Conclusion

Risk prevention significantly affected project performance at 0.719, risk prevention is embraced among organizations executing projects in AAH-I.

Recommendations

Organizations that are skeptical about risk planning and risk prevention must implement a risk management plan. Keywords: Risk prevention, Performance of the projects, NGOs, South Sudan. Submitted: 2024-12-01Accepted: 2025-02-11 Published: 2025-02-14 Corresponding Author: Mohammed Sendagi Email: sendagimoh@gmail.com Team University

Background

The implementation stage of the project is the benchmark for measuring the performance of a project. This is because it provides a guideline to how the project will run in terms of its activities and ensures all the project participants focus on the end goal of a project (Nyoni, 2018). This means that differences in opinions, along with the project objectives among project participants, would lead to the failure of the project. Kerzner (2017) states that Project initiation takes up 80% of all project activities and utilization of resources; thus, it's a benchmark of whether the project will be successful or not. There are four dimensions of project performance. These four dimensions consist of factors such as quality, cost, time efficiency, and production efficiency (Kerzner, 2017). However, different projects have different performance measurements; thus, organizations should avoid limiting the measurement of performance by using efficiency measures as the only indicator of project performance because it does not always signify the overall performance of a project. Organizations should, therefore, look at measures such as the effect of the project on clients and how the end product of the project impacts the future state of the organization.

The theoretical review provides the researcher with an opportunity to have a philosophical stand (Kothari, 2003). The theoretical framework affects the decisions made in the process of research. The study was guided by three theories, namely, Network Theory, Expectancy Theory, and

Enterprise Risk Management Theory. If you are a business leader, then you already know the importance of risk control (Bennett, J. M., Chekaluk, E., & Batchelor, J., 2016). Your business must have a formal policy to limit the loss of assets and income. Here are the six techniques associated with risk management. In Nairobi, Kenya, the organization adopted

changing work plans to avoid risks, contingency, regular Page | 2 inspections, operational reviews training, and skill enhancements to prevent risks (Wabomba, 2015). The supply chain firms adopted risk prevention strategies such as detailed planning, alternative approaches, and contingency as a way of risk prevention; risk prevention practice positively influences the performance of supply chain firms (Weingarten, Humphreys, Gimenez, and McIvor, 2016). In Rwanda, a detailed work plan, safety inspection, and having safety system influenced the performance of the construction projects (Aimable, Shukla, and Oduor, 2015). (Singh, Deep, and Banerjee (2017) In India, construction firms use risk prevention strategies such as safety inspections, safety systems, contingency, and detailed work plans to influence the construction projects' performance (Singh, Deep, and Banerjee (2017). The study aims to assess the relationship between risk prevention and the performance of the projects in NGOs in South Sudan

METHODOLOGY Research Design

The study applied a cross-sectional survey design, which was chosen because it is not too expensive, no participant follow-ups are required, and data is collected at a single point in time. The study selected various participants in a short period of time and never intended to carry out followups of the participants. The study adopted quantitative procedures of data collection and analysis. Quantitative methods provided data for statistical purposes.

Study Population

A population is a set of members who belong to a group within which research is carried out that possess homogeneous observable characteristics (Barasa, Ikamari, Kiplang'at & Oladipo, 2015). The target population for this study consisted of a total of 220 respondents, who included 20 general managers, 45 project supervisors,40 M&E officers, 70 project officers, and 45 finance officers.

Table 1, Target Population.

Department	Respondents				
General Managers	20				
Project Supervisors	45				
Monitoring & Evaluation officers	40				
Project Officers	70				
Finance Officers	45				
Total	220				

Sampling procedure and size

Sample size

A sample is defined as a collection of some (a subset) population according to t. The study focused on a sample size of 136 respondents as determined by the Krejcie and Morgan table of 1970 on sample size determination. The sample had project managers, project officers, human resource personnel, project assistants, and beneficiaries. The researcher used a simple random sampling method because it gave an equal opportunity to all members of the finite population to participate. This sample size was effective and representative of the population, convenient to the researcher in terms of funds, time, and others.

Therefore, the sample is represented by:

n = required sample size.

X2 = the table value of chi-square for 1 degree of freedom at the desired confidence level (3.841).

N = the population size.

P = the population proportion (assumed to be .136 since this would provide the maximum Sample size).

d = the degree of accuracy (the margin of error) expressed as a proportion (.05).

The target population may have potential participants; therefore, by use of Krejcie and Morgan's method of determination of a sample size, it came up with 220 respondents. According to the Central limit theorem, if the sample size is large enough (N > 30), then the data followed a normal distribution curve, and 500 is sufficient to give credible results of field investigation.

Purposive sampling and simple random sampling shall be used for the selection of respondents in each department.

Sampling Procedure

The study applied both stratified and simple random sampling procedures.

A simple random sampling technique was applied for the

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random distribution of the research questionnaire to various categories of people in various departments of the AAH-I South Sudan mission.

A stratified sampling technique was used to organize the various selected key respondents. This was to enable the researcher to get a cross-section of the targeted population, hence giving equal chances to all selected people to participate equally and get the right and accurate response on risk management more on the tools applied for risk identification, mitigation, and risk monitoring.

Sampling techniques

	Table 1. Sample Size and sampling technique.				
Department	Respondents/Population	Sample size (using Pd of 0.61)	Sample method		
General Managers	20	12	Purposive		
Project Supervisors	45	28	Simple random		
Monitoring & Evaluation officers	40	25	Simple random		
Project Officers	70	43	Simple random		
Finance Officers	45	28	Simple random		
Total	220	136			

Table 1: Sample Size and sampling technique.

Data Collection Sources

Primary data

Questionnaire and interview methods were used for collecting primary Data where closed-ended questions were provided to exhaust respondents' information about the topic under study.

Secondary data

Available secondary data was used, especially from personnel and record departments of the institutions, textbooks, journals, newspapers, library, internet, councilors, among other sources to ensure critical evidence and areas of reference.

Data collection techniques and pretesting

The researcher was guided using the questionnaire, observations, and interviews in collecting data during the study. The selection of these methods was based on the type of data collected and the time availed, as the objective of the study.

The researcher used public means like taxi, "Bodaboda" to get to the area of sturdy and the researcher used notebooks to keep tracked information.

Questionnaire Guide

Questionnaires were used as a key instrumental tool during the study. The questionnaires consisted of both open and closed ended questions that were issued to the different respondents among project assistants, managers, officers, human resources that enabled them to give accurate information about on the impact of risk management on projects. These questionnaires were collected and returned to the researcher for data processing and analysis. They were administered to all categories of participants apart from General managers.

Interview guide

Key questions were designed for key informants like head NGOs, project managers, human resource personals, and project officers, The researcher had the list of questions to be asked to the respondents personally that was to ensure qualitative data were collected during research.

Pretesting (Validity and reliability) Validity of the Instruments

Validity refers to the extent to which an item measures what it is established to measure. Hair and Lukas (2014) define the validity of a data collection instrument questionnaire as the extent to which it measures what it claims to measure. To eliminate bias and unclear phrases, the piloted questionnaire was tested. Testing of the piloted questionnaire ensured that the final questionnaire has the capability of eliciting information that answers the research questionnaires, questionnaires were administered to managers and supervisors. Invalid questions were then removed from the final questionnaires after the review process.

Reliability of the Instruments

Reliability refers to the consistency of outcome when a test is carried out over and over.

Cronbach's alpha (α) will be employed in the analysis of the pilot test data to determine the internal consistency or average correlation of items in a survey instrument to gauge its reliability. According to Yin (2017), Cronbach's alpha (α) indicates the extent to which the set of research instruments is reliable, making it appropriate for the study.

Page | 4 A coefficient value of above 0.7 implies that the research instrument (questionnaire) is reliable and thus appropriate for use in the study,

Reliability Test

The study conducted a pilot study, which was used to test the reliability of the study instruments by assessing the consistency of data arising from the use of the study research method. A Cronbach Alpha was used to measure the reliability of the research questionnaires. The Cronbach findings are shown in Table 3.

Table 3: Reliability Test						
Variable Number of Coefficient Cronbach Alpha						
Risk prevention	5	0.794				
Risk control	5	0.809				
Risk assessment	5	0.862				
Average		0.823				

Source: Field data, 2024

The study indicated that risk transfer as a risk management practice had a Cronbach Alpha of 0.827, risk prevention had a coefficient of 0.794, and risk control had a coefficient of 0.809. Since the Cronbach alpha coefficients were all more than 0.7, the data collection instruments were deemed statistically reliable to collect data for the study.

fundamental and frequently used psychometric tools in research. Some questions require respondents to indicate according to a predefined list or scale, usually ranking from positive to very negative. The researcher used a Likert scale from which respondents chose from strongly agree, disagree, strongly agree, agree, and neutral. The options are shown below:

Measurement of variables.

The Likert scale

The Likert scale is a psychometric scale used commonly on survey questionnaires. The Likert scale is one of the

Table 4 Likert Scale					
Attitude	Strongly agree	Agree	Neutral	Disagree	Strongly disagree
Points	5	4	3	2	1

Source: Creswell, (2012) Data Processing and Analysis

Data analysis

After collecting the primary data, the researcher edited the information in the questionnaires. Using SPSS Statistical package where analysis was done and summarized in tables with the aid of frequencies and percentages in response to questionnaires. Additions and deductions were also made from the necessary materials in the form of secondary data that was used in the analysis in a manner that yielded answers to the research questions. Qualitative data was analyzed using content analysis.

Data processing

Collected data was edited to ensure that the information from respondents was accurate and consistent, and that was conducted after every interview with respondents. Coded involved assigning numerical figures on each question according to the different codes of response. Data Tabulation was done basically with illustrative writing interpretation and analysis. That involved the use of frequency distribution tables that made it easy to understand and for comparison purposes.

Ethical Consideration

The study was conducted ethically. According to Kothari (2004), a norm that governs human conduct and has a significant effect on the welfare of humans is referred to as ethics (Kothari, 2004). The researcher ensured that the study was undertaken ethically by seeking permission before conducting the research in the form of a formal letter of request elaborating reasons for undertaking the study and

the study's purpose. The researcher also assured the respondents that any information submitted would be treated with the utmost confidentiality. The researcher also professionally conducted the research.

Ethical approval

Page | 5 The study was undertaken ethically by seeking permission before conducting the research in the form of a formal letter of request elaborating reasons for undertaking the study and the study's purpose. The researcher also assured the respondents that any information submitted would be treated with the utmost confidentiality.

The purpose of the study was well explained to the respondents, and consent was obtained from the respondents before data collection.

Results

Response Rate

Table 5, Out of the 136 respondents sampled for the study, 120 of them completed the questionnaires and presented them for analysis. This represents a response rate of 88.89%. This rate is statistically significant and representative according to Mugenda and Mugenda (2003) who indicated that the response rate of half is sufficient for investigations and revealing, a 60% rate is by and large great while a 70% rate of response is magnificent.

Informed consent

Table 5: Response Rate

Response rate	Frequency	Percentage
Response	120	88.89
Non-Response	15	11.11
Total	135	100



Age of Respondents

Source: Field data, 2024

Figure 1: Respondents' Age Source: Field data, 2024

Figure 1 shows that 40% of the respondents were aged between 31 and 40 years, while 22% were between 41 and 50 years. This indicates that the majority of the respondents

were aged above 30 years. This shows that they were grownups in the active labor force and above to deliver on their mandate.

Academic Level of participants.

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Academic Qualification	Frequency	Percentage		
Primary certificate	0	0		
Secondary certificate	2	1.67		
College diploma	12	10.00		
University graduate	81	67.50		
Post-graduate	25	20.83		
Total	120	100		
Source: Field data 2024				

Table 6: Highest Academic Qualification

Source: Field data, 2024

Table 6 shows that 1.67% of the respondents among the projects in Nairobi City County were secondary school graduates, 10% had college diplomas, and 67.5% were university undergraduates, while 20.83% had post-graduate qualifications. This indicates that most of the project staff among the projects were bachelor's degree holders. This shows that the staff had the necessary academic skills and knowledge to perform their duties.

Period worked in the current organization.

The study sought to find out the number of years the respondents had worked on their respective projects.





Figure 2, 13% of the respondents had worked for less than 1 year in the projects of AAH-1, while 21% had worked for more than 10 years. This indicates that most of the project staff had worked for more than 1 year in their project and hence understood the operations, risks encountered, possible mitigation strategies, and project performance. This makes them better in making the study valid.

Job designation

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Figure 3: Respondents' job designation

Source: Field data, 2024

Figure 3, 5% of the respondents were risk managers in the respective organizations, 8% were project managers, 6% were general managers, 48% were project officers, 15% were project supervisors, and 18% were finance officers. This indicates that the majority of the respondents were project officers. All cadres of management in the organizations or projects were fairly and significantly represented.

Risk Prevention and Performance of projects in AAH-1, South Sudan.



Figure 4: Extent to which risk prevention affects project performance

Figure 4, 54% of the respondents indicated that risk prevention to a very great extent affect project performance, 33% indicated that it was to a great extent, 9% indicated that it was to moderate extent, 3% indicated that it was to a little extent and 1% indicated that risk prevention didn't have any effect on project performance. This generally indicates that to a significant extent, risk prevention as a risk management practice influenced project performance. Wabomba (2015), in his study on the influence of risk management strategies on project performance in international development

organizations in South Sudan, indicated similarly that changing work plans to avoid risks, contingency, regular inspections, operational reviews, trainings, and skill enhancements to prevent risks contribute significantly to project performance.

The respondents were requested to further indicate the extent to which they agreed or disagreed with the following statements using a scale of 1-5 where 1=strongly disagree, 2=disagree, 3= undecided, 4=agree, and 5= strongly agree. The study had the following findings.

Table 7. Risk Frevention and Froject Ferrormance				
Risk Prevention and Project Performance	Mean	Std. Dev		
Our organization ensures the installation of safety systems against any event	2.88	0.798		
that may lead to project delay				
Our organization advocates for the use of an alternative plan in case of the	3.14	0.911		
occurrence of any event that may cause project delay				
Our organization, through project officials, inspects ongoing projects to ensure	3.71	0.801		
they are not delayed				
Our organization encourages the use of a detailed work plan to ensure no event	3.66	1.466		
leads to delays in projects				
Our organization trains project teams to ensure that projects run within the	3.91	0.769		
allocated schedule				

Table 7:	Risk Prevention	and Pro	ject Performance
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Source: Field data, 2024

Table 7, The respondents agreed that their organizations through project officials inspect ongoing projects to ensure the projects are not delayed; the organizations encourage use of a detailed work plan to ensure no event leads to delays in projects and the organizations train project teams to ensure that projects run within the allocated schedule as indicated by a mean of 3.71, 3.66 and 3.91 respectively. The study respondents agreed to a moderate extent that their organizations ensure installation of safety systems against any event that may lead to project delay and advocates for

the use of alternative plans in case of occurrence of any even that may cause project delay as indicated by a mean of 2.88 and 3.14, respectively. This indicates that the organizations significantly embraced risk prevention mechanisms, which involved the installation of safety systems, having alternative plans, inspection and feedback, use of a detailed work plan, and capacity building among project team members.

The findings of the coefficient of correlation and coefficient of determination are as shown in Table 8

Tab	le	8:	Mod	el s	umi	mary
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	Model	R	R Square	Adjusted r square	Std. Error of the estimate
1	.719	.516	.849		1.61972

a. Predictors: (constant), risk prevention, Source: Field data, 2024

Discussion

Risk Prevention and Project Performance

The study found that risk prevention significantly influenced the performance of projects in AAH-1, South Sudan. The study established that to a significant extent, risk prevention as a risk management practice influenced project performance. The respondents agreed that their organizations, through project officials, inspect ongoing projects to ensure the projects are not delayed; the organizations encourage the use of a detailed work plan to ensure no event leads to delays in projects, and the organizations train project teams to ensure that projects run within the allocated schedule. The study respondents agreed to a moderate extent that their organizations ensure installation of safety systems against any event that may lead to project delay and advocate for the use of alternative plans

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in case of occurrence of any event that may cause project delay. This indicates that the organizations significantly embraced risk prevention mechanisms, which involved the installation of safety systems, having alternative plans, inspection and feedback, use of a detailed work plan, and capacity building among project team members. According

to respondents, prevention is better than cure; therefore, putting into practice pro-active, preventive risk management is far better than reactive firefighting risk management, and it's always key to understand and control the variability of preference without focusing on single error scenarios. This statement is back-up by David Tattam;,(Jul, 21, 2017) as he said if we can understand risk BEFORE we suffer an incident and we manage the risk early on to prevent it from happening in the first place, this must be better than waiting for an incident before we act and learn.

Conclusion

Risk prevention significantly affected project performance at 0.719, risk prevention is embraced among organizations executing projects in AAH-I.

Recommendations

There is a need to have a risk management plan in place and stick in organizations found to be skeptical on planning for risks and taking risk prevention steps.

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Conflict of interest

The author did not declare any conflict of interest.

Author contributions

Gloria Meliku drafted the research proposal, conducted data collection and analysis, and drafted the manuscript of the study.

Dr. Nelson Wani supervised all the processes of the study project to the drafting of the manuscript of the study.

Author biography

Gloria Meliku is a student of a master's in project planning and management at Team University.

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