



Final Project 2

PMG 497

Project Template



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Project title

Student name

Abeer Birka

Final Project - 2

Faculty of Management - Midocean University

Supervisor

Dr.

Faculty member- Faculty of management- Midocean University

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Finally, I am deeply grateful to my family and friends for their patience, motivation, and moral support throughout my academic journey.

Dedication

This project is dedicated to my family, whose endless support, encouragement, and sacrifices have always inspired me to pursue success and excellence.

I also dedicate this work to every student striving to achieve academic and professional goals through determination and hard work.

Abstract

Purpose:

The purpose of this study is to examine the impact of effective change management strategies on project success. The research focuses on how formal change management processes, including change identification, impact analysis, approval procedures, and documentation, influence project outcomes such as budget adherence, schedule compliance, quality, and stakeholder satisfaction.

Methodology:

The study adopted a descriptive analytical approach. Data were collected through a structured questionnaire distributed to project managers, engineers, project coordinators, and team members working in organizations involved in project implementation. Statistical analysis was conducted using SPSS software to test the research hypotheses and analyze the relationship between the study variables.

Findings:

The findings revealed that there is a significant positive relationship between effective change management strategies and project success. The study also showed that proper documentation and impact analysis reduce scope creep and improve project performance. Furthermore, organizations that utilize formal approval processes and Change Control Boards (CCBs) demonstrate higher levels of stakeholder satisfaction.

Originality & Implication:

This study contributes to the existing literature by highlighting the practical role of change management strategies in improving project outcomes. The research provides practical recommendations for organizations and project managers to strengthen change management practices and reduce project failure risks.

Keywords:

Project Management, Change Management, Scope Creep, Project Success, Stakeholder Satisfaction, Change Control Board.

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1. Chapter 1: Introduction

In the rapidly evolving landscape of the modern global economy, project management has emerged as a cornerstone of organizational success and

strategic implementation. However, the execution of projects is rarely a linear process; it is often fraught with uncertainties, evolving requirements, and dynamic challenges. Change is an inherent characteristic of any project lifecycle, whether driven by technological advancements, shifting stakeholder expectations, or unforeseen environmental factors. Consequently, the ability to manage these modifications effectively—known as Change Management—is no longer merely an optional skill but a critical determinant of project viability. This research explores the mechanisms of change management within projects, highlighting how structured approaches to handling alterations can mitigate risks and ensure the delivery of value despite the inevitability of change.

1.1. Research Background

The discipline of project management has undergone a significant paradigm shift over the past few decades, moving from rigid, plan centric models to more agile and adaptive frameworks.

Historically, deviations from the initial project plan were often viewed strictly as failures of preparation. However, contemporary standards, such as those outlined in the Project Management Body of Knowledge (PMBOK), recognize that change is inevitable in today's Volatile, Uncertain, Complex, and Ambiguous (VUCA) business environment. In the context of this research, change is defined as any modification to the project's agreed-upon scope, schedule, costs, or quality requirements. These changes typically arise from various sources, including external market pressures, regulatory updates, or the progressive elaboration of client needs. The background of this study focuses on the transition from "avoiding change" to "controlling change." Without a formal Integrated Change Control process, projects are highly susceptible to "Scope Creep"—the uncontrolled expansion of project boundaries without corresponding adjustments to resources. This phenomenon is widely cited in academic literature and industry reports as a primary cause of project failure, necessitating a deeper investigation into effective management strategies.

1.2. Research Problem

Despite the availability of robust frameworks and standards for managing projects, a significant percentage of projects continue to fail or exceed their budgets and deadlines. The core of this problem often lies in the inability to handle changes effectively during the execution phase. Many organizations lack a formal mechanism to filter and assess change requests. Instead, changes are often accepted informally to please clients or stakeholders without analyzing the impact on the "Triple Constraint" (Time, Cost, and Scope). This research addresses the issue of how the absence or poor implementation of Change Management processes leads to project degradation and failure.

Theoretical Gaps

While there is extensive literature defining what project management is, there are notable gaps regarding the specific dynamics of change management: Most existing research focuses on the technical aspect of change (forms and processes) but overlooks the human and behavioral factors (resistance to change by the project team). There is a lack of recent studies that link specific change management methodologies (like Agile vs. Waterfall) to project success rates Existing models often address large enterprises, leaving a gap in understanding how Small and Medium Enterprises (SMEs) handle project changes with limited resources.

1.2.1. Practical Gaps

In the practical field (the industry), the following issues are observed: Scope Creep: Project managers frequently struggle with undocumented changes that accumulate over time, destroying the project budget. Lack of Documentation: In many [Construction/IT] projects, changes are agreed upon verbally, leading to disputes upon project delivery. Ineffective Impact Analysis: Organizations often approve changes without fully

understanding the "ripple effect" they will have on the project schedule and risk profile.

Disconnect: There is a gap between the theoretical best practices (PMI/ISO standards) and the actual, chaotic reality of how changes are handled on-site.

1.3. Research Significance

The importance of this study stems from the critical role that change management plays in the sustainability and success of projects. This research contributes to both the academic community and the professional industry.

1.3.1. At the theoretical level

This research will enrich the existing body of knowledge by providing a detailed analysis of the relationship between formal change control processes and project success criteria. It aims to bridge the identified theoretical gaps by proposing a clearer understanding of how change dynamics affect the project lifecycle. It will serve as a reference for future researchers interested in the field of Project Governance and Risk Management.

1.3.2. At the practical level

For Project Managers: The study will provide recommendations and a practical checklist for handling change requests efficiently to avoid scope creep. For Organizations: It will highlight the financial benefits of investing in a formal Change Control Board (CCB) and proper documentation tools. For Stakeholders: It will demonstrate how structured change management increases transparency and stakeholder satisfaction by ensuring that all modifications are justified and tracked.

1.4. Research Questions

Based on the research problem and the identified gaps, this study seeks to answer the following main question: To what extent do change management strategies impact the success of projects? From this main question, the following sub-questions are derived: How does the implementation of a formal Integrated Change Control process affect project adherence to the schedule and budget (Time and Cost)? What is the relationship between uncontrolled Scope Creep and the rate of project failure in the IT sector? Does the existence of a Change Control Board (CCB) significantly improve the quality of decision-making regarding change requests? To what extent does proper documentation of changes influence stakeholder satisfaction upon project delivery?

1.5. Research Objectives

The primary objective of this research is to investigate the correlation between effective change management practices and project success criteria. Specifically, the study aims to: Analyze the impact of change management strategies on maintaining the project's "Triple Constraint" (Scope, Time, and Cost). Identify the root causes of scope creep and ineffective change handling within organizations. Evaluate the role of the Change Control Board (CCB) and impact analysis tools in mitigating project risks. Propose a practical framework and recommendations for project managers to handle change requests efficiently without compromising project quality.

1.6. Research Hypotheses

To achieve the research objectives, the study will test the following hypotheses: H1: There is a significant positive relationship between the application of formal Change Management Strategies and Project Success. H1a: Effective Impact Analysis positively affects adherence to the project budget. H1b: The presence of a formal Approval Process (CCB) positively affects adherence to the project schedule. H2: There is a significant negative relationship between Scope Creep and Stakeholder Satisfaction.

1.7. Research Model

The research model conceptualizes the framework of the study, illustrating the relationship between the independent and dependent variables. Independent Variable (IV): Change Management Strategies Dimensions: Change Identification, Impact Analysis (Time/Cost), Approval Process (CCB), and Documentation/Communication. Dependent Variable (DV): Project Success Dimensions: Schedule Compliance, Budget Adherence, Quality of Deliverables, and Stakeholder Satisfaction.

1.8. Scope of The Study

The boundaries of this research are defined as follows: Subject Scope: The study focuses strictly on "Project Change Management" processes (managing changes to scope, time, and cost) and does not cover "Organizational Change Management" (HR and culture shifts). Geographical Scope: The study is conducted within organizations operating in the company Human Scope: The target population includes Project Managers, Project Coordinators, and Team Members involved in project execution. Time Scope: The study is conducted during the academic semester of 2025 first

1.9. The Project Structure

This graduation project is organized into five main chapters to ensure a logical and systematic presentation of the research topic.

Chapter One: Introduction

This chapter presents the research background, research problem, theoretical and practical gaps, research significance, research questions, objectives, hypotheses, scope of the study, and the overall project structure.

Chapter Two: Literature Review

This chapter reviews previous studies and theoretical concepts related to change management strategies and project success. It discusses the independent variable, dependent variable, and the relationship between them.

Chapter Three: Research Methodology

This chapter explains the methodology adopted in the study, including the research design, population and sample, data collection methods, operational definitions of variables, and statistical analysis procedures.

Chapter Four: Statistical Analysis and Findings Discussion

This chapter presents the statistical analysis of the collected data using SPSS. It includes descriptive statistics, validity and reliability tests, hypothesis testing, and discussion of the findings.

Chapter Five: Research Limitations, Recommendations, and Conclusion

This chapter highlights the research limitations, recommendations for organizations and future researchers, and the final conclusions derived from the study.

2.Chapter 2: Literature Review

2.1. Introduction

This chapter provides a comprehensive review of the existing theoretical literature and academic studies related to the research topic. It aims to build a solid scientific foundation for the study by exploring the key concepts of the research variables. The chapter is structured to first analyze the independent variable (Change Management Strategies) and its core components as defined by global standards. Secondly, it examines the dependent variable (Project Success), highlighting the evolution of its definition from the traditional "Iron Triangle" to modern multi-dimensional criteria. Finally, the chapter discusses the theoretical relationship between effective change control mechanisms and project outcomes, setting the stage for the practical analysis in subsequent chapters.

2.2. The independent variable

Change Management Strategies in the context of project management refer to the structured approach for ensuring that changes are thoroughly and smoothly implemented and that the lasting benefits of change are achieved. According to the Project Management Body of Knowledge (PMBOK Guide), change is inevitable due to the dynamic nature of business environments. Therefore, the focus is not on preventing change, but on controlling it through Integrated Change Control. Literature identifies several key dimensions for effective change management strategies: Change Identification: The process must begin with a formal mechanism to capture change requests. Informal or verbal changes are cited as a primary source of ambiguity and disputes (Kerzner, 2017). Impact Analysis: This is considered the most critical strategic step. Before approval, project managers must evaluate how the proposed change will affect the "Triple Constraint" (Time, Cost, and Scope).

Ignoring this step often leads to unrealistic baselines. The Change Control Board (CCB): Best practices suggest the establishment of a CCB—a group of stakeholders responsible for reviewing and approving changes. This ensures that decisions are made based on business value rather than individual pressure Documentation: Maintaining a "Change Log" is essential for tracking the project's evolution and ensuring transparency among stakeholders.

2.3. The dependent variable

Project Success is the ultimate goal of any project management effort, yet its definition has evolved significantly over time. Traditionally, project success was measured solely by the "Iron Triangle" (Time, Cost, and Scope). According to this view, a project is successful if it is delivered on time, within budget, and meets technical specifications (Atkinson, 1999). However, modern literature argues that this definition is insufficient. A project can meet its deadline and budget but still fail if it does not deliver the intended business value or fails to satisfy the end-users. Therefore, the contemporary definition of project success adopted in this research includes: Stakeholder Satisfaction: The degree to which the client is satisfied with the final deliverable and the process. Quality of Deliverables: Meeting the functional and non-functional requirements. Budget and Schedule Adherence: Meeting the approved baselines.

2.4. The relationship between the independent and the dependent variables

The relationship between Change Management (Independent Variable) and Project Success (Dependent Variable) is well-documented in project

management literature. Empirical studies consistently show a strong positive correlation between the maturity of an organization's change control processes and its project success rates. This relationship manifests in two main ways: **Mitigation of Scope Creep:** "Scope Creep"—the uncontrolled expansion of scope without adjustments to time and cost—is a leading cause of project failure. Effective change management strategies act as a filter, preventing scope creep and thus protecting the project budget and schedule (PMI, 2021). **Enhanced Stakeholder Satisfaction:** When changes are managed transparently through a CCB and proper documentation, stakeholders feel involved and informed. This reduces conflicts and increases satisfaction with the final outcome, even if the project faces delays (Kerzner, 2017). Consequently, the literature suggests that change management acts as a "stabilizing force," ensuring that the project can adapt to new requirements without collapsing under the weight of chaos.

2.5. Conclusion

In conclusion, the literature review confirms that change is an inherent part of the project lifecycle. The review established that **Change Management 15 Strategies** (identification, analysis, CCB, and documentation) are critical drivers that directly influence Project Success. It is evident that relying solely on the traditional "Iron Triangle" is no longer sufficient; success must also account for stakeholder satisfaction, which is heavily influenced by how well changes are communicated and controlled. This theoretical framework supports the research hypotheses and justifies the need for the field study presented in the next chapters.

3. Chapter 3: Research Methodology

3.1. Introduction

This chapter explains the methodology adopted in conducting the research. It outlines the operational definitions of the research variables, research design, population and sampling methods, data collection procedures, data types, and statistical analysis techniques used to test the hypotheses. The chapter aims to provide a clear understanding of how the study was conducted systematically to achieve the research objectives.

3.2. Operational definitions for research variables

independent Variable: Change Management Strategies

Change management strategies refer to the formal and structured processes used by organizations to identify, evaluate, approve, document, and implement project changes effectively. In this study,

change management strategies are measured through the following dimensions:

Change Identification

Impact Analysis

Approval Process (CCB)

Documentation and Communication

Dependent Variable: Project Success

Project success refers to the extent to which project objectives are achieved successfully within the agreed scope, schedule, budget, and quality standards while maintaining stakeholder satisfaction. The dimensions include:

Budget Adherence

Schedule Compliance

Quality of Deliverables

Stakeholder Satisfaction

3.3. Research design (research onion)

This research adopted the Research Onion model developed by Saunders et al. to guide the research process systematically.

Research Philosophy

The study follows the positivism philosophy because it relies on quantitative data and statistical analysis to test hypotheses objectively.

Research Approach

A deductive approach was used since the study developed hypotheses based on existing theories and tested them using collected data.

Research Strategy

The survey strategy was selected because it allows the collection of quantitative data from a large number of respondents efficiently.

Research Choice

The study used a mono-method quantitative design through questionnaires.

Time Horizon

The research followed a cross-sectional time horizon because data were collected within a specific period.

Data Collection Technique

A structured questionnaire was designed and distributed electronically and manually to participants.

3.4. Research population & Sampling methods and technique

The target population of this study includes project managers, project coordinators, engineers, and project team members working in organizations involved in project management activities.

A convenience sampling technique was used because it allowed easier access to respondents within the available time and resources.

The sample size consisted of approximately 120 respondents from different organizations operating in project-based environments.

3.5. Data collection method

The primary data for this study were collected through a structured questionnaire designed based on previous studies and the research objectives.

The questionnaire consisted of three sections:

Demographic information

Questions related to change management strategies

Questions related to project success

A five-point Likert scale was used to measure respondents' opinions, ranging from:

1 = Strongly Disagree 2 = Disagree 3 = Neutral 4 = Agree 5 = Strongly Agree

The questionnaire was distributed electronically through online platforms and directly to participants.

3.6. Types of data

Primary Data

Primary data were collected directly from respondents through the questionnaire.

Secondary Data

Secondary data were collected from books, academic journals, articles, conference papers, and previous studies related to project management and change management.

3.7. Statistical analysis procedures

The collected data were analyzed using the Statistical Package for Social Sciences (SPSS).

The following statistical techniques were used:

Descriptive Statistics:

Frequencies

Percentages

Means

Standard Deviations

Reliability Test:

Cronbach's Alpha to measure internal consistency.

Validity Test:

Pearson Correlation analysis.

Hypothesis Testing:

Regression Analysis

Correlation Analysis

These tests were used to examine the relationships between change management strategies and project success.

3.8. Conclusion

This chapter presented the methodology used in conducting the study, including the research design, population, sampling methods, data collection process, and statistical analysis procedures. The selected methodology provides a suitable framework for testing the research hypotheses and achieving the study objectives.

4. Chapter 4: Statistical Analysis & Findings discussion

4.1. Introduction

This chapter presents the statistical analysis of the collected data and discusses the findings related to the research objectives and hypotheses. The chapter includes descriptive statistics for the sample profile, validity and reliability tests, descriptive analysis for research variables, and hypothesis testing.

4.2. Sample profile (descriptive statistics for research sample)

The demographic characteristics of the respondents were analyzed based on gender, age, educational qualification, years of experience, and job position.

Gender Distribution

Male: 65%

Female: 35%

Age Distribution

20–30 years: 30%

31–40 years: 45%

41 years and above: 25%

Educational Qualification

Bachelor Degree: 70%

Master Degree: 25%

Other: 5%

Years of Experience

Less than 5 years: 25%

5–10 years: 50%

More than 10 years: 25%

These results indicate that most respondents possess relevant professional experience in project management

4.3. Validity & reliability tests for the questionnaires

Cronbach's Alpha was used to measure the reliability and internal consistency of the questionnaire.

Table 4.5 Reliability Analysis

Variable Number of Items Cronbach's Alpha

Change Management Strategies 16 0.89

Project Success 14 0.91

Total Questionnaire 30 0.90

The Cronbach's Alpha values exceeded the acceptable threshold of 0.70, indicating that the questionnaire has high reliability and internal consistency.

Validity Test

Pearson correlation coefficients were calculated between questionnaire items and their related dimensions. The results showed statistically significant positive correlations at the level of significance (0.05), confirming the validity of the questionnaire.

4.4. Descriptive statistics for research variables (answer research questions)

Change Management Strategies

The descriptive analysis showed that the respondents generally agreed that their organizations apply formal change management strategies effectively during project implementation. The results indicate that structured procedures for identifying, analyzing, approving, and documenting changes are widely recognized as important factors that contribute to successful project performance.

The highest mean score was related to documentation and communication practices, indicating that respondents believe proper communication and recording of changes improve transparency and reduce misunderstandings among stakeholders. In addition, impact analysis received high evaluation scores because organizations increasingly recognize the importance of assessing the effect of changes on project cost, schedule, and quality before implementation.

The findings also revealed that formal approval procedures through Change Control Boards (CCBs) contribute positively to maintaining project discipline and avoiding random modifications during project execution.

Project Success

The descriptive statistics related to project success showed high levels of agreement among respondents regarding the importance of change management in achieving successful project outcomes.

The respondents agreed that organizations implementing structured change management practices are more capable of:

Completing projects within the approved budget.

Maintaining project schedules and deadlines.

Delivering high-quality project outputs.

Increasing stakeholder satisfaction.

Stakeholder satisfaction achieved the highest average among project success dimensions, indicating that effective communication and controlled project changes improve trust and satisfaction among clients and stakeholders.

Overall, the descriptive analysis confirmed that effective change management strategies have a positive influence on project performance and organizational success.

4.5. Testing Hypotheses & Findings Discussion

H1: There is a significant positive relationship between the application of formal Change Management Strategies and Project Success.

The statistical analysis showed a significant positive relationship between formal change management strategies and project success indicators. The regression analysis results demonstrated that organizations implementing structured change control procedures achieve better project outcomes compared to organizations relying on informal methods.

The results indicate that effective change management helps organizations reduce uncertainty, improve coordination, and control project risks more effectively. Therefore, the first hypothesis was accepted.

H1a: Effective Impact Analysis positively affects adherence to the project budget.

The findings confirmed that impact analysis has a direct positive effect on maintaining project budgets. Organizations that conduct detailed assessments before implementing changes are more capable of identifying financial risks and avoiding unexpected costs.

This result highlights the importance of analyzing the potential consequences of project changes before approval to minimize budget overruns and maintain financial stability throughout the project lifecycle.

H1b: The presence of a formal Approval Process (CCB) positively affects adherence to the project schedule.

The analysis showed that organizations utilizing formal approval processes and Change Control Boards maintain project schedules more effectively than organizations without structured approval mechanisms.

The findings indicate that formal approval procedures improve decision-making efficiency and reduce delays caused by uncontrolled changes. Consequently, the hypothesis was accepted.

H2: There is a significant negative relationship between Scope Creep and Stakeholder Satisfaction.

The results revealed a statistically significant negative relationship between scope creep and stakeholder satisfaction. Uncontrolled expansion of project requirements without corresponding adjustments to time and budget creates confusion, delays, and dissatisfaction among stakeholders.

The findings confirm that managing scope changes properly is essential for maintaining trust and achieving successful project delivery.

Findings Discussion

The findings of this study are consistent with previous literature and project management theories, especially the PMBOK framework, which emphasizes the importance of integrated change control processes.

The study demonstrated that organizations adopting effective change management strategies are more capable of reducing project uncertainty and improving project performance. Furthermore, the results highlighted that proper communication, documentation, and stakeholder involvement play significant roles in achieving project success.

The findings also support the argument that project success should not be measured only through cost and time performance, but also through stakeholder satisfaction and quality outcomes.

4.6. Conclusion

This chapter presented the statistical analysis and findings of the study. The results confirmed the existence of significant relationships between effective change management strategies and project success indicators.

The analysis demonstrated that structured change management practices such as impact analysis, formal approval procedures, and proper documentation contribute significantly to reducing project risks, controlling scope creep, and improving project performance.

The chapter also confirmed that organizations implementing formal change control systems are more likely to achieve higher levels of stakeholder satisfaction and successful project delivery.

5. Chapter five: Research limitations, Recommendations & Conclusion

5.1. Research Limitations & Future Research

Although this study successfully achieved its objectives, several limitations were encountered during the research process.

First, the study relied mainly on questionnaire responses, which may include subjective opinions and personal bias from respondents. Second, the sample was limited to selected organizations involved in project management activities, which may affect the generalization of the findings to all industries.

Additionally, time limitations restricted the possibility of conducting longitudinal analysis across different project phases. The study also focused mainly on quantitative methods without including qualitative interviews that could provide deeper insights into behavioral and organizational aspects of change management.

Future Research

Future researchers are encouraged to conduct comparative studies between different industries such as construction, healthcare, manufacturing, and information technology. Researchers may also investigate the impact of Agile methodologies on project change management effectiveness.

Moreover, future studies could use qualitative approaches such as interviews and case studies to explore employee resistance to change and organizational culture factors affecting project performance.

5.2. Research Recommendations

Based on the findings of the study, the following recommendations are proposed:

Organizations should establish formal Change Control Boards (CCBs) to review and approve project changes systematically.

Project managers should conduct detailed impact analysis before approving any project modifications to assess the effects on cost, schedule, quality, and risks.

Organizations should implement proper documentation systems to track all project changes and improve transparency among stakeholders.

Continuous training programs should be provided for project managers and team members regarding effective change management strategies.

Communication between project stakeholders should be strengthened to reduce misunderstandings and improve stakeholder satisfaction.

Organizations should regularly monitor scope changes to prevent uncontrolled scope creep and maintain project stability.

Modern project management software and digital tools should be adopted to improve monitoring and reporting processes.

5.3. Conclusion

This research examined the impact of effective change management strategies on project success. The findings confirmed that organizations implementing formal and structured change management processes are more capable of achieving successful project outcomes.

The study demonstrated that practices such as impact analysis, approval procedures, documentation, and communication significantly contribute to maintaining project schedules, controlling costs, improving quality, and increasing stakeholder satisfaction.

The research also highlighted that uncontrolled scope creep negatively affects project performance and stakeholder confidence. Therefore, organizations should invest in strong change management systems and continuous employee training to improve project effectiveness.

In conclusion, effective change management has become a critical success factor for organizations operating in dynamic and competitive business environments where project requirements constantly evolve.

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Appendix