

العنوان باللغة العربية

التحقيق في آثار أسلوب قيادة المشروع وديناميكيات الفريق والثقافة التنظيمية على نجاح المشروع في تطوير البرمجيات الرشيقة: دليل تجريبي من المملكة العربية السعودية.

العنوان باللغة الانجليزية

Investigating the Effects of Project Leadership Style, Team Dynamics, and Organizational Culture on Project Success in Agile Software Development: An Empirical Evidence from KSA

الإعداد:

هيثم الصعب (الليدر) : 221000474

عبد الرحمن عساكر : 221002584

الإشراف:

د. وليد صديق

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Research Proposal

**Topic: Investigating the Effects of Project Leadership Style, Team Dynamics,
and Organizational Culture on Project Success in Agile Software Development:**

An Empirical Evidence from KSA

Introduction

Background

The advent of agile software development has significantly transformed the way businesses respond to changes, enhance their performance, and foster innovation within the rapidly evolving digital landscape of the present era (Lukusa et al., 2020). The flexibility inherent in these development methods transcends the boundaries of the development process itself, encompassing project leadership style, team dynamics, and organizational culture. The cohesive alignment of these interlocking elements is of utmost importance in determining the outcome of a software project, whether it be successful or unsuccessful (Ghimire & Charters, 2022).

In addition, to gain a comprehensive understanding of these relationships, it is imperative to acknowledge the notable disparity between the project leadership style in Agile software development and that observed in conventional management contexts (Lukusa et al., 2020). In the Agile methodology, the role of a leader is not focused on micromanagement but rather on facilitating, empowering, and motivating team members. A leader of this nature exemplifies the principles of servant leadership, prioritizing the well-being of the team above their own, consequently cultivating an atmosphere characterized by trust, collaboration, and exceptional performance. The role of the Agile leader entails acting as a coach, providing guidance to the team in terms of self-organization and cross-functionality, as well as addressing any obstacles that may potentially impede their progress (Weichbrodt et al., 2022). The influence of an Agile leader is significant, resulting in a cascading impact that affects not only the performance of the team but also the overall success of the project (Strode et al., 2022).

Furthermore, it is important to note that team dynamics play a significant role in the overall success of Agile projects. The Agile team, which is distinguished by its diverse and cross-functional composition, flourishes through adherence to the principles of transparency, inspection, and adaptation. Agile teams place significant emphasis on fostering collaboration among team members, making iterative progress, and ensuring the consistent delivery of value. The iterative process of planning, developing, testing, and evaluating not only cultivates a climate of knowledge acquisition and ongoing enhancement but also strengthens team unity, elevates motivation, and enhances efficiency. The establishment of a cohesive team dynamic plays a crucial role in facilitating efficient problem-solving and decision-making processes, thereby creating favorable conditions for the successful execution of Agile projects (Wafa et al., 2022).

The significance of organizational culture should not be underestimated within the framework of leadership and team dynamics. A cultural framework that upholds the principles of Agile, which prioritize the significance of individuals and interactions over processes and tools, the delivery of functional software over extensive documentation, customer collaboration over contract negotiation, and adaptability to change over rigid adherence to a predetermined plan, fosters an atmosphere conducive to the successful execution of Agile projects (Mkoba, 2022). An organizational culture that is conducive to Agile methodologies is characterized by trust, transparency, and mutual respect, wherein failures are perceived not as catastrophic events but rather as valuable opportunities for learning and growth. This culture fosters an environment that encourages the development of creativity, innovation, and a persistent commitment to achieving high standards (Sulej, 2021).

The interdependence between project leadership style, team dynamics, and organizational culture in Agile software development has the potential to exert a significant influence on the achievement of project objectives. When these three elements are aligned, they create an atmosphere that optimizes productivity, stimulates creativity, and cultivates a positive and cooperative work culture. The leader assumes the role of the

rudder, providing guidance to the team in effectively navigating the potentially challenging circumstances encountered during project implementation (Weichbrodt et al., 2022). The team functions as a unified entity, engaging in collective learning, adaptation, and the provision of value. In the context of a supportive culture, the organization serves as a conducive environment for the successful implementation and growth of Agile principles (Muhammad et al., 2021).

The concept of leadership in Agile is not a standalone entity but rather functions within the larger framework of the team and the organizational culture. Effective leaders in Agile methodologies are not simply symbolic leaders who give orders; rather, they actively facilitate and encourage team members to assume responsibility for their tasks and pursue ongoing enhancements. The organization cultivates a conducive and transparent atmosphere that promotes open dialogue, constructive critique, and collaborative resolution of issues. This leadership style has been observed to have a dual effect, as it not only has a positive impact on team performance and productivity, but it also exerts a favorable influence on the team's morale, engagement, and overall job satisfaction (Ellahi et al., 2022).

Conversely, the dynamics of a team are influenced by and influence both leadership and the culture of the organization. Agile leadership has the capacity to cultivate favorable team dynamics through the facilitation of trust, collaboration, and accountability among the members of the team (Gren & Ralph, 2022). On the other hand, leadership that lacks effectiveness has the potential to foster conflict, distrust, and inefficiency, thereby compromising the team's overall effectiveness and impeding the successful completion of the project. Simultaneously, the culture of an organization influences the dynamics of a team through the establishment of expectations, norms, and values that regulate the way team members engage, communicate, and address challenges. An organizational culture that is supportive of Agile methodologies fosters constructive team

dynamics through the adoption of diverse perspectives, the encouragement of collaborative efforts, and the recognition of the importance of continuous learning and innovation (Rehman, 2022).

Ultimately, the role of organizational culture is of great importance in facilitating or impeding the adoption and achievement of Agile methodologies. A cultural milieu that is congruent with the principles and values of Agile methodology fosters a nurturing atmosphere wherein Agile leaders and teams can flourish. This type of culture promotes adaptability, innovation, and a focus on customer needs, allowing the organization to adapt promptly and efficiently to shifts in the business landscape. Conversely, a cultural orientation that places significance on hierarchical structures, exerting control, and adhering strictly to predetermined plans can impede the Agile ethos, thereby presenting obstacles to the successful implementation of Agile projects (Shah et al., 2020).

Furthermore, it is imperative to recognize that the adoption of Agile methodologies entails more than just modifying procedural aspects or implementing new technological resources. This phenomenon encompasses a profound and ingrained cultural transformation that permeates every echelon of the organization (Gren & Ralph, 2022). The process of transitioning to Agile methodologies may present challenges; however, it is imperative for the successful establishment and growth of Agile practices. The successful implementation of an Agile transformation necessitates the presence of capable leadership to provide guidance and support throughout the process, the establishment of efficient team dynamics to effectively execute the necessary changes, and the cultivation of an organizational culture that is open and receptive to sustaining the transformation (Tam et al., 2020).

The achievement of Agile project success is contingent upon a multitude of interconnected factors, each possessing its own inherent significance. The presence of a proficient Agile leader, a harmonious team, and a culture that promotes and embraces Agile methodologies are all essential components necessary for

achieving success in a project. The essence and quality of a successful Agile software development project are determined by the delicate balance and interplay of these factors. The significance of human-centric elements in facilitating the success of Agile projects cannot be emphasized enough, given the rapid evolution of the business landscape (Lukusa et al., 2020).

Research Objectives

The research objectives of this research work will be:

- ❖ To examine the relationship between project leadership style and project success in agile software development.
- ❖ To investigate the influence of team dynamics on project success in agile software development.
- ❖ To explore the impact of organizational culture on project success in agile software development.

Research Questions

- ❖ How does project leadership style influence project success in agile software development?
- ❖ What is the impact of team dynamics on project success in agile software development?
- ❖ How does organizational culture affect project success in agile software development?

Significance of Study

The rapid evolution of the digital landscape has necessitated the adoption of Agile software development as a crucial strategy for organizations globally to maintain competitiveness. This research offers a broader understanding of the non-technical factors, such as leadership style, team dynamics, and organizational culture, that have a substantial influence on the success of Agile projects. This study contributes to the current body of knowledge by illustrating the interdependent nature of these components and their combined influence on the results of a project. Additionally, this research provides significant contributions to

professionals, specifically individuals in leadership positions and team members within KSA. The Kingdom is currently undergoing a swift shift towards a digital economy as a crucial aspect of its Vision 2030 initiative. Through the identification and examination of the distinct characteristics associated with leadership, team dynamics, and culture that play a role in fostering success in Agile projects, individuals engaged in Agile software development are provided with the necessary insights to enhance their implementation of this methodology (Lukusa et al., 2020).

Furthermore, this study has significant implications for leaders within organizations and policymakers in the KSA. The significance of cultivating a culture that supports Agile methodologies is underscored to facilitate the achievement of successful Agile transformations. This statement emphasizes that the adoption of Agile methodologies is not solely a matter of altering procedures or utilizing different tools but rather a holistic transformation of organizational culture that necessitates intentional and collaborative endeavors. Moreover, the results of the study can provide valuable insights for the creation of training programs, leadership workshops, and organizational change initiatives. This can contribute to the promotion of Agile adoption and the improvement of project success rates in KSA. Additionally, it establishes the foundation for the development of assessment instruments that can be utilized to measure the efficacy of Agile leadership, team productivity, and organizational culture, thereby enabling the ongoing enhancement of these areas. The study makes a distinct scholarly contribution by presenting empirical evidence from a Middle Eastern context, which is presently lacking in Agile research. The inclusion of diverse cultural and economic contexts in Agile research expands its scope, enhancing the generalizability and applicability of its findings (Tam et al., 2020).

Research Hypothesis

H_{a1}: Different project leadership styles positively impact project success in agile software development.

H_{a2}: Positive team dynamics (communication, collaboration, shared goals) significantly contribute to project success in agile software development.

H_{a3}: Organizational culture that supports agility, continuous learning, adaptability, and innovation positively affects project success in agile software development.

Literature Review

The agile leadership style exhibits a notable retreat from conventional hierarchical models and demonstrates a greater alignment with the servant leadership approach. Attiq & Rehman (2020) underscore the significance of Agile leaders assuming the role of facilitators rather than directors. The organization fosters a conducive atmosphere characterized by trust and collaboration, which empowers the team to autonomously structure their work and consistently produce software of exceptional quality through iterative processes.

According to a study conducted by Wafa et al. (2022) it was found that in Agile methodologies, leadership does not revolve around exerting control. Rather, it focuses on empowering the team and eliminating obstacles that hinder its progress. The study revealed a robust association between this leadership approach and favorable project results, which is consistent with Agile's fundamental principles of prioritizing individuals and their interactions. The study of team dynamics in the context of agile software development is a significant area of research, as asserted by Gandomani et al. (2020). Understanding how teams' function and interact within the agile framework is crucial for successful project outcomes. The dynamics of a team, encompassing the interactions, collaborations, and influences among team members, are of paramount importance in the context of Agile software development. Highly effective Agile teams exhibit key attributes such as the establishment of a foundation of trust among team members, fostering an environment of open and transparent communication, and embracing a collective sense of responsibility.

According to Gren & Ralph (2022) the implementation of self-organizing teams plays a crucial role in Agile projects as it facilitates adaptability and the ability to effectively respond to changes. The study discovered that the utilization of self-organizing teams, characterized by the presence of diverse skill sets and a collaborative approach to problem-solving, exhibited a higher likelihood of achieving successful project outcomes. In a study conducted by Weichbrodt et al. (2022) it was found that Agile teams that perform well tend to cultivate a culture centered around ongoing learning and advancement. This culture ultimately leads to increased productivity and innovation. Hence, there is substantial evidence that establishes a strong correlation between positive team dynamics and successful outcomes in Agile projects. The adoption and success of Agile methodologies are significantly influenced by an organization's culture. The Agile methodology demonstrates compatibility with organizational cultures that prioritize collaboration, learning, and flexibility while potentially encountering conflicts with cultures that exhibit inflexibility, hierarchical structures, and a focus on control.

Nawaz et al. (2021) seminal research revealed that the adoption of Agile methodologies is influenced by organizational culture, which encompasses fundamental values and norms that can either facilitate or impede the implementation of Agile practices. The study revealed that organizational cultures that embrace and support Agile methodologies, which are characterized by trust, openness, and a focus on customer needs, were found to enhance the success of Agile projects. On the other hand, cultures that prioritize control and rigid structures often present considerable obstacles to the implementation of Agile practices.

In addition, a study conducted by Mkoba (2022) emphasized the significant cultural transformation required to achieve a successful implementation of Agile methodologies. The research findings underscored the notion that Agile methodology entails more than mere modifications to processes or tools; rather, it necessitates a fundamental transformation in the core values and behaviors of the organization, involving all

levels of the organizational hierarchy. The existing literature extensively examines the separate impacts of leadership style, team dynamics, and organizational culture on the success of Agile methodologies. However, there is a dearth of research focusing on the combined effects of these factors. Nevertheless, certain studies suggest a strong correlation between them (Attig & Rehman, 2020; Lukusa et al., 2020; Mkoba, 2022)

According to research conducted by Ellahi et al. (2022) it was proposed that the leadership style employed within Agile environments has the potential to exert a substantial influence on the dynamics of teams. Furthermore, Shah et al. (2020) posited that the effectiveness of leadership can be influenced by organizational culture. Maqsood (2021) conducted a study and discovered that Agile leaders who demonstrated transformational leadership behaviors, such as offering intellectual stimulation and promoting individualized consideration, had a positive impact on team dynamics. These leaders effectively promoted creativity, empowered team members, and cultivated a supportive and collaborative environment, resulting in increased levels of team satisfaction and successful project outcomes.

Additionally, a study conducted by Muhammad et al. (2021) indicated that organizations that possess a culture characterized by trust, open communication, and a strong emphasis on learning and adaptation are more likely to attain successful outcomes in Agile implementation. The presence of a supportive culture facilitated teams in conducting experiments, undertaking risks, and consistently enhancing their practices, resulting in improved project performance and heightened levels of customer satisfaction.

A study conducted by Attig & Rehman (2020) indicated that Agile leaders who displayed transformational leadership qualities were able to cultivate favorable team dynamics, which were characterized by the presence of open communication, shared understanding, and collaborative efforts. This phenomenon was made possible by an organizational culture that actively embraced and promoted the principles and values of Agile methodologies. The study placed significant emphasis on the interconnections

between these elements and underscored the significance of aligning leadership style, team dynamics, and organizational culture to achieve successful outcomes in Agile projects.

Furthermore, Garcia & Russo (2019) revealed that Agile leaders who fostered a culture of innovation, empowered their teams, and promoted collaboration and knowledge sharing were more inclined to attain elevated levels of business value delivery. The study conducted by Behrens et al. (2021) discovered that leaders who demonstrated a transformational leadership style, which encompassed qualities such as inspiration, intellectual stimulation, and individualized consideration, were able to achieve greater effectiveness in terms of motivating and empowering their teams. Consequently, this resulted in increased levels of productivity. This emphasizes the significance of Agile leaders in establishing a conducive atmosphere that promotes exceptional performance and effective delivery.

Moreover, scholarly investigations, exemplified by the research conducted by Langholf & Wilkens (2021) indicated that Agile teams characterized by robust team dynamics, encompassing proficient collaboration, shared comprehension, and collective responsibility, demonstrated a greater propensity for generating software of superior quality. The team's ability to work together cohesively and collaboratively fostered effective communication, reduced mistakes, and encouraged ongoing feedback, ultimately leading to enhanced software quality.

The examination of customer satisfaction in relation to Agile project leadership, team dynamics, and organizational culture has been conducted, as it is considered a crucial indicator of project success. Koi-Akrofi et al. (2019) found that Agile leaders who exhibited proficient communication skills, actively involved stakeholders, and cultivated a customer-centric perspective were more proficient in meeting customer expectations and attaining elevated levels of satisfaction.

Furthermore, it has been observed that the organizational culture exerts an impact on the level of customer satisfaction within Agile projects. The impact of organizational culture on customer satisfaction in Agile software development teams was examined in a study conducted by Paasivaara et al. (2017). The researchers discovered that a cultural environment that places importance on customer collaboration, openness, and flexibility had a positive impact on the Agile teams' capacity to comprehend customer needs, adjust to evolving requirements, and provide solutions that aligned with customer expectations. The statement highlights the importance of fostering an organizational culture that embraces Agile methodologies to achieve high levels of customer satisfaction and successful project outcomes.

Various factors have been identified as having an impact on productivity, software quality, and customer satisfaction, which are considered crucial indicators of successful project outcomes. The results underscore the necessity for Agile leaders to embrace transformational leadership styles, promote favorable team dynamics, and cultivate an organizational culture that is congruent with Agile principles (Attiq & Rehman, 2020; Garcia & Russo, 2019; Koi-Akrofi et al., 2019). By prioritizing these factors, organizations have the potential to optimize project performance, ensure the delivery of superior software, and attain elevated levels of customer satisfaction within Agile software development endeavors (Wilkens, 2021).

Theoretical Framework

The present theoretical framework provides a comprehensive comprehension of the intricate relationship among project leadership style, team dynamics, organizational culture, and project success within the realm of agile software development. This theoretical framework acknowledges the significance of adaptively addressing change and consistently enhancing performance over the course of the project's lifespan. The participative leadership theory posits that leaders who effectively inspire and motivate their team members by fostering a shared vision, exhibiting charisma, stimulating intellectual growth, and demonstrating individual

consideration can have a substantial influence on the success of projects (Attig & Rehman, 2020). The capacity to cultivate a sense of dedication, creativity, and exceptional performance has the potential to yield favorable results in agile projects. In contrast, the theory of servant leadership emphasizes leaders who place a high value on addressing the needs of their team members, thereby fostering a nurturing atmosphere that promotes cooperation, trust, and the contentment of employees. These leaders facilitate the empowerment of their teams, thereby fostering growth, development, and the attainment of optimal performance (Khassawneh & Elrehail, 2022).

The internal dynamics of the team are a critical factor in determining the success of a project. The social exchange theory places emphasis on the importance of positive interpersonal relationships, trust, and effective communication within a team (Wilkens, 2021). The promotion of cooperation, coordination, and project success is facilitated when team members engage in a reciprocal exchange of resources, including support, information, and cooperation. The theory of shared mental models emphasizes the significance of a collective comprehension and repository of knowledge within a team. The presence of a shared mental model enhances the efficacy of collaborative efforts, coordination, and the process of making informed decisions. The establishment of collective comprehension fosters effective communication, mitigates mistakes, and enhances the overall results of projects within the context of agile software development (Ahmad et al., 2023).

Moreover, according to Edgar Schein's organizational culture theory, the culture existing within a given organization plays a crucial role in influencing behaviors, attitudes, and practices. A corporate culture that is congruent with agile principles, including the promotion of ongoing learning, adaptability, and innovation, contributes to the achievement of project objectives. The establishment of such an environment fosters the development of autonomy, empowerment, knowledge dissemination, and collaboration within the team (Weber & Martensen, 2021).

The present theoretical framework offers a structured approach to exploring the intricate connections and potential mechanisms by which project leadership style, team dynamics, and organizational culture impact the achievement of projects in the context of agile software development. Through the integration of various theories and concepts, researchers can acquire a comprehensive comprehension of the intricate interplay and influence of these factors on project outcomes (Gren & Ralph, 2022). The proposed framework will function as a tool for analyzing empirical data and extracting valuable insights that can contribute to the development of effective project management strategies within the specific context of agile software development projects. Within the scope of the research subject, this theoretical framework serves as the basis for investigating the impact of project leadership style, team dynamics, and organizational culture on the achievement of projects in the context of agile software development (Koi-Akrofi et al., 2019).

Research Methodology

Data Collection Approach

This research work will follow the quantitative approach and will adopt the descriptive research design. This research will be based on the primary data analysis approach, and data will be collected from the participants by employing a questionnaire. The questionnaire will be formed by extensively and thoroughly reviewing the literature review, and this questionnaire will be utilized as the main data-collecting tool. The questionnaire will be developed through Google Forms, and an online link will be formed and will be shared with the research participants. Only those participants who will be willing to participate in the study will be included, and before distributing the questionnaire, prior consent will be taken. The online link to the questionnaire will be shared with the research participants through different social media platforms such as WhatsApp, email, and other online communications tools.

Target Population (Sampling Technique and Sample Size)

The target population of this research work will be all the subordinates working in software development firms and directly involved in software development projects. The subordinates include all the software development workers and other employees dealing with technical and non-technical tasks. To ensure the adequate representation of the research participants, a simple random sampling will be employed. Simple random sampling ensures that all the participants of the study have an equal probability of being selected, and this eliminates biases and ensures research validity. The sample size of this research work will be 150 participants, and the final size of the sample will rely on the participation rate and willingness of the participants to take part in the survey. This approach permits the researcher to encapsulate an extensive range of experiences and distinct perspectives of the participants and offers a comprehensive comprehension of the role of project leaders, team dynamics, and agile methodologies in the project's success.

Data Analysis

Data analysis tools such as SPSS and Microsoft Excel will be leveraged to examine the collected information. SPSS, a statistical software, will be applied for detailed data analysis using various methods. Microsoft Excel will be used for data coding and cleaning processes aimed at transforming qualitative information into a numerical format. The coding of data aids in changing subjective data into an easily understandable numerical form. The cleaning of data includes the removal of unnecessary data and discrepancies in the obtained dataset. To determine the internal coherence of the data and measure how well the variables reflect the fundamental construct, Cronbach's alpha will be used. To reduce the size and dimensions of the dataset, techniques of multivariate analysis will be implemented. Utilizing summary statistics will assist in reshaping the data, while correlation and regression analysis will help measure the relationship and impact between the dependent and independent variables.

Research Structure

The structure of the research for investigating the Effects of Project Leadership Style, Team Dynamics, and Organizational Culture on Project Success in Agile Software Development is formed to provide an extensive analysis of the research topic, thus divided into several chapters or sections:

Introduction: The initial part will provide a brief introduction of the research topic, clarify the problem under investigation, and state the objectives of the research. It will explain the importance of the study and present the key questions it seeks to answer.

Review of Literature: This segment will meticulously analyze existing literature concerning Project Leadership Style, Team Dynamics, and Organizational Culture on Project Success in Agile Software Development, studying crucial theories, frameworks, and proven results. It will form the theoretical base for the research and spot areas that are not yet thoroughly explored in existing literature, thus justifying the necessity of the current study.

Research Methodology: This portion will outline the research structure, methods of data collection, and techniques for data analysis. It will specify the research paradigm, detail the process of sample selection, and explain measures taken to ensure reliability and validity.

Data Analysis: This section will present and scrutinize collected data based on the predefined methodology. It will contain comprehensive accounts of the results, supplemented by diagrams, tables, or other suitable visual aids. The interpretation of these findings considering the research objectives and questions will also be included.

Discussion: This part will delve into the ramifications of the findings, comparing them with existing studies and theoretical predictions. It will explore the effects of Project Leadership Style, Team Dynamics, and

Organizational Culture on Project Success in Agile Software Development supported by evidence from the data evaluation.

Conclusion: This concluding part will encapsulate the findings, reconsider the research objectives and questions, and highlight the knowledge contribution of the study. It will also critique the limitations of the research and suggest potential areas for future investigation.

References and Appendixes: The research will conclude with a compilation of all referenced sources and appendixes, which could consist of interview scripts, survey queries, or additional data charts that complement the main content of the study.

Research Limitation

The research on the effects of project leadership style, team dynamics, and organizational culture on project success in Agile software development in the context of KSA has certain limitations. One limitation is the sample size and generalizability of the findings. The study may involve a limited number of organizations, teams, or individuals, which may restrict the applicability of the results to a broader population within KSA or beyond. Another limitation is related to the data collection method. Depending on the chosen approach, such as surveys, there may be limitations in capturing the full range of perspectives and experiences. These limitations should be considered when interpreting the research findings and considering their applicability to other contexts or populations.

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