THE IMPACT OF TRANSFORMATIONAL LEADERSHIP ON DECISION-MAKING EFFECTIVENESS: A CASE STUDY OF LANTIAN TECH

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AN INDEPENDENT STUDY SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE DEGREE OF MASTER OF BUSINESS ADMINISTRATION GRADUATE SCHOOL OF BUSINESS SIAM UNIVERSITY 2023

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This Independent Study has been Approved as a Partial Fulfillment of the Requirement of International Master of Business Administration

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ABSTRACT

In the context of rapidly advancing technological sectors, companies like Lantian Tech, a leading Chinese tech firm, exemplify the dynamic interplay between leadership styles and organizational decisions. This study examined the impact of transformational leadership on decision-making effectiveness in the tech industry, specifically within Lantian Tech. The problem is the chaotic management situation in some of the tech companies now. The objectives were: 1) To examine the characteristics of transformational leadership present at Lantian Tech, 2) To examine the effectiveness of decision-making processes at Lantian Tech, 3) To determine the relationship between transformational leadership and decision-making effectiveness, 4) To provide recommendations for Lantian Tech and similar tech companies.

Grounded in the Transformational Leadership Theory, the study employed a quantitative method, utilizing a survey questionnaire distributed to 400 employees at Lantian Tech. The data was analyzed using descriptive statistics and multiple regression analysis to explore the relationships between transformational leadership components and decision-making effectiveness.

The study's findings indicate: 1) a strong presence of transformational leadership characteristics at Lantian Tech, 2) a generally positive perception of decision-making effectiveness, 3) significant positive correlations between certain components of transformational leadership, especially inspirational motivation and intellectual

stimulation, and decision-making effectiveness, and 4) specific areas for enhancing leadership effectiveness in relation to decision-making processes.

The study demonstrates that inspirational motivation and intellectual stimulation, key components of transformational leadership, significantly enhance decision-making effectiveness at Lantian Tech, with idealized influence and individualized consideration also contributing positively but to a lesser extent. These findings suggest that tech companies can improve their decision-making processes by cultivating leadership styles that inspire, intellectually engage, and consider the individual needs of employees, providing valuable strategies for leadership enhancement in the technology sector.

Keywords: transformational leadership, decision-making effectiveness, tech industry leadership, lantian tech.

ACKNOWLEDGEMENT

I would like to express my deepest gratitude to my advisor, for his invaluable guidance, support, and encouragement throughout my independent study. His insightful comments and constructive criticism have significantly improved the quality of my work.

Additionally, I am grateful to Associate Professor Dr. Jomphong Mongkhonvanit, Dean, Graduate School of Business, for his support and encouragement throughout my studies. His dedication to the graduate program and commitment to excellence have inspired me to strive for academic excellence.

Finally, I would like to extend my appreciation to all the faculty members and staff of the Siam University who have contributed to my growth and development as a student. Their unwavering support and encouragement have been a source of inspiration and motivation to me.
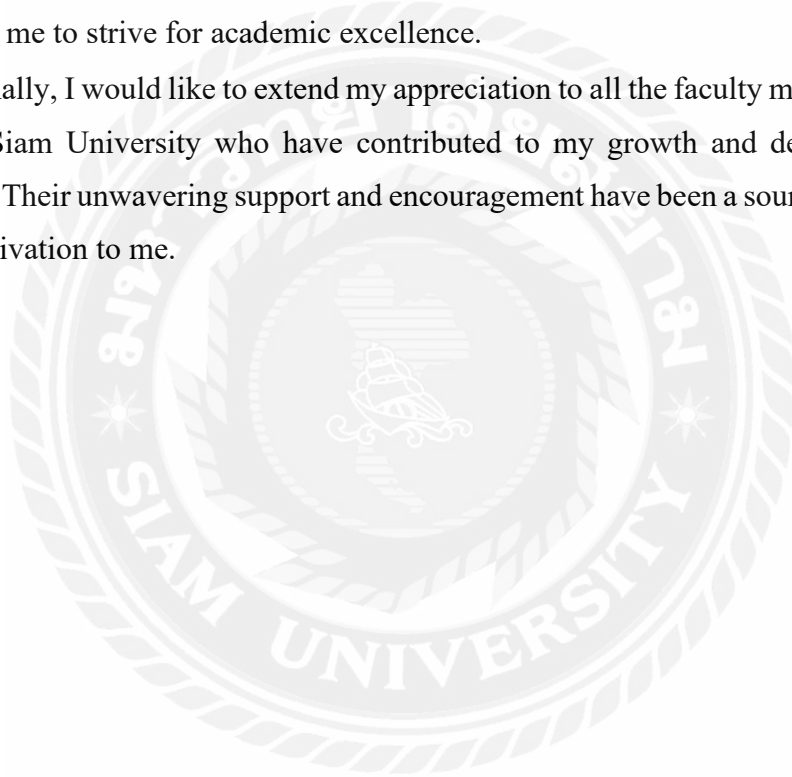
Declaration

I, YAO YAO, hereby certify that the work embodied in this independent study entitled "THE IMPACT OF TRANSFORMATIONAL LEADERSHIP ON DECISION-MAKING EFFECTIVENESS: A CASE STUDY OF LANTIAN TECH" is result of original research and has not been submitted for a higher degree to any other university or institution.
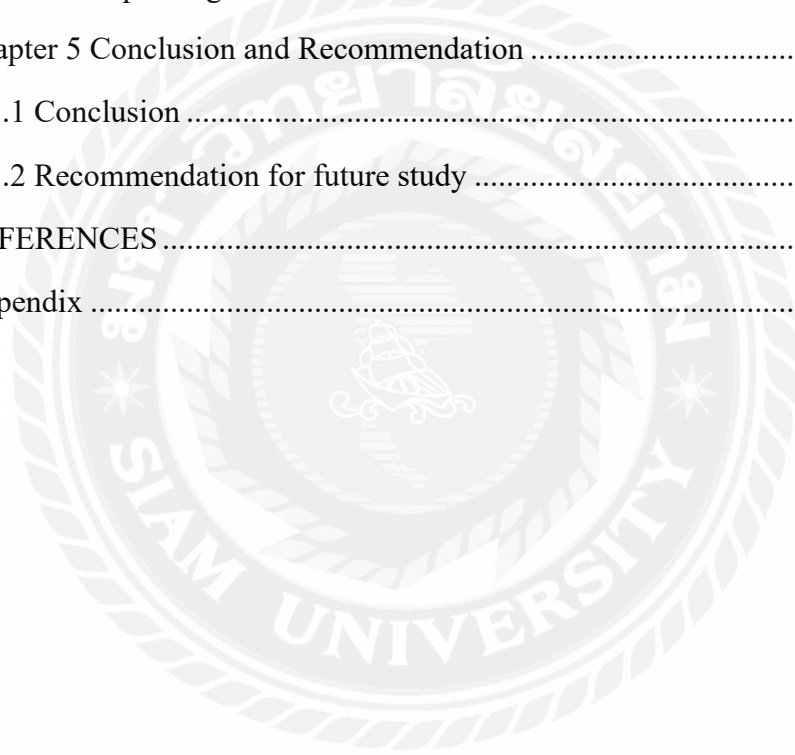
(YAO YAO)

Feb 23, 2023

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Chapter 1 Introduction

1.1 Background of the study

The evolving landscape of organizational leadership has increasingly spotlighted the role of transformational leadership in shaping decision-making processes. Transformational leadership, characterized by inspirational motivation, intellectual stimulation, and individualized consideration, fosters an environment conducive to effective decision-making (Zhang & Bartol, 2010). In the context of rapidly advancing technological sectors, companies like Lantian Tech, a leading Chinese tech firm, exemplify the dynamic interplay between leadership styles and organizational decisions. This study focuses on Lantian Tech, exploring how transformational leadership impacts decision-making effectiveness within the tech industry.

Recent advancements in technology and the surge in start-up cultures have intensified the need for agile and innovative leadership approaches. The transformative capacity of leadership in tech companies, particularly in decision-making, has been a subject of increasing interest (Wang & Waldman, 2014). Lantian Tech, known for its cutting-edge solutions and market agility, provides a pertinent case for examining these dynamics. This research aims to bridge the gap in literature by quantitatively analyzing the effect of transformational leadership on decision-making effectiveness at Lantian Tech.

The study navigates through complex terminologies like 'transformational leadership' and 'decision-making effectiveness', ensuring clarity for the reader. Transformational leadership refers to a leadership approach that causes change in individuals and social systems. In contrast, decision-making effectiveness pertains to the quality and outcomes of decisions made within an organization.

Transformational leaders at Lantian Tech have been instrumental in fostering a culture of innovation and adaptability, crucial for thriving in the fast-paced tech sector (Liu & Zhang, 2016). They encourage employees to think creatively, challenge the status quo, and contribute proactively to organizational goals. This leadership style, emphasizing vision, inspiration, and support, aligns well with the dynamic nature of the tech industry, where rapid changes and disruptive innovations are commonplace.

Furthermore, the efficacy of decision-making under transformational leadership at Lantian Tech merits exploration. Decision-making in tech companies often involves high-stakes and rapidly evolving scenarios, where traditional, top-down approaches may falter (Chen, 2018). Transformational leadership, with its emphasis on collaboration and empowerment, potentially leads to more innovative and effective decision-making processes. This study aims to quantitatively assess this relationship, providing empirical insights into the impacts of transformational leadership on decision-making effectiveness in the tech sector.

1.2 Problems of the study

Current research extensively discusses transformational leadership and its impact on organizational outcomes, including employee motivation and organizational change (Zhao & Zhou, 2017). However, there is a notable gap in empirical studies focusing specifically on decision-making effectiveness within the tech industry, particularly in companies like Lantian Tech. While theoretical models and qualitative analyses abound, quantitative assessments of how transformational leadership directly influences decision-making processes and outcomes in this context are scarce. In this gap, there are many other companies in this industry in the rapid development of the industry today, the company management has become gradually chaotic, cannot keep pace with the pace of innovation, many companies face dissolution of the status quo.

Addressing this gap is crucial for these reasons. Firstly, the tech industry, characterized by rapid innovation and change, demands effective decision-making for organizational survival and competitiveness. Understanding how leadership styles like transformational leadership influence these decisions can guide more effective leadership practices (Li, 2019). Secondly, as organizations increasingly adopt transformational leadership, empirical evidence on its impact on specific decision-making outcomes can provide valuable insights for leadership training and development. Therefore, filling this research gap not only contributes to academic knowledge but also offers practical benefits for tech companies like Lantian Tech.

1.3 Objectives of the study

The primary aim of this research is to evaluate the impact of transformational leadership on decision-making effectiveness in Lantian Tech, a rapidly evolving tech

company. This goal aligns with addressing the identified gap in the literature and the practical challenges faced by tech companies in managing growth and innovation. To achieve this aim, the study sets the following specific objectives:

1. To examine the characteristics of transformational leadership present at Lantian Tech.

2. To examine the effectiveness of decision-making processes at Lantian Tech.

3. To determine the relationship between transformational leadership and decision-making effectiveness.

4. To provide recommendations for Lantian Tech and similar tech companies.

1.4 Scope of the study

The scope of this research is carefully defined to ensure a focused and in-depth investigation. This study is primarily concerned with the tech industry, with a specific emphasis on Lantian Tech, a Chinese tech company. The geographical focus is on Lantian Tech's operations within China, providing a unique insight into the intersection of transformational leadership and decision-making in this cultural and economic context. The time frame for this research spans from 2020 to 2023, a period marked by significant changes and challenges in the tech industry, especially in the post-pandemic era. The demographics involved in this study include the leaders and employees of Lantian Tech, encompassing various roles within the organization. The primary theme of this study is the impact of transformational leadership on decision-making effectiveness, deliberately excluding other leadership styles or broader organizational outcomes to maintain a concentrated scope. This narrowed focus allows for a thorough exploration of the subject matter within a manageable and specific framework.

1.5 Significance of the study

This study significantly contributes to the academic field by addressing a notable gap in leadership research, specifically in the tech industry context. By quantitatively assessing the impact of transformational leadership on decision-making effectiveness, it enriches the existing body of literature, which predominantly focuses on qualitative analysis. This research builds upon and extends previous studies by providing empirical evidence from a Chinese tech company, offering a new perspective in a rapidly evolving industry. It also aims to refine transformational leadership theory by exploring its application in a specific, dynamic sector.

Practically, this research holds substantial value for organizations, particularly in the tech sector. By uncovering how transformational leadership influences decision-making effectiveness at Lantian Tech, the findings can guide other tech companies in optimizing their leadership strategies to enhance decision-making processes. This study offers actionable insights for corporate training, leadership development, and organizational change initiatives, aiming to improve both the efficiency and effectiveness of decision-making in a fast-paced, innovation-driven industry. The implications of this research extend beyond academia, directly impacting leadership practices and decision-making in the real world.
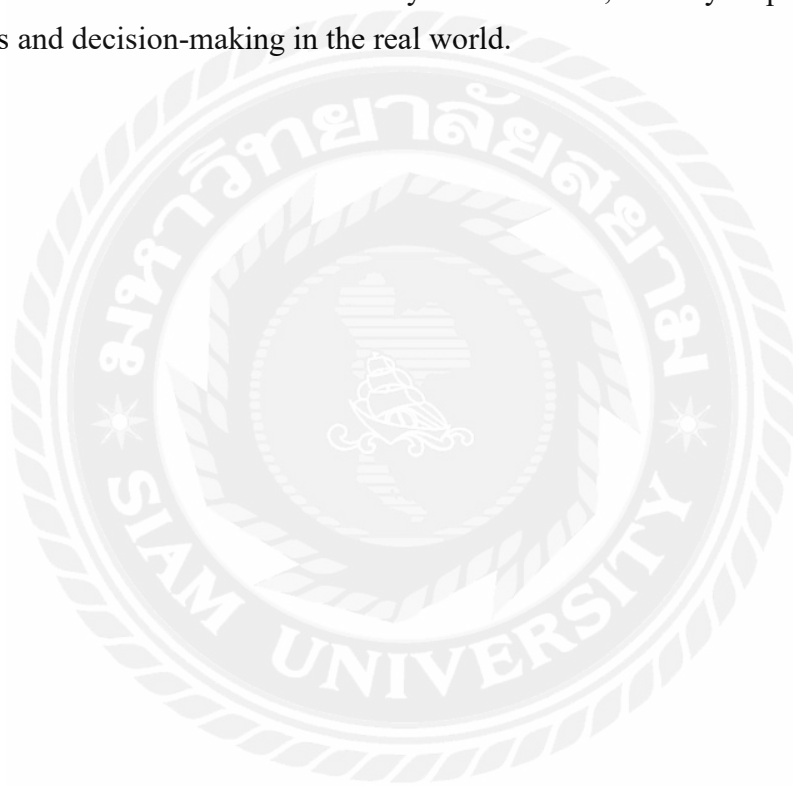
Chapter 2 Literature Review

2.1 Introduction

This chapter delves into the literature relevant to our study on the impact of transformational leadership on decision-making effectiveness in Lantian Tech, a leading tech company. The primary aim of this literature review is to contextualize the research within existing academic frameworks and to identify gaps that our study aims to fill. This review will cover key areas including transformational leadership, decision-making effectiveness, and leadership dynamics in the tech industry, while excluding broader leadership styles and industries for focused analysis. The structure of the chapter is organized around the identified keywords: Transformational Leadership, Decision-Making Effectiveness, and Tech Industry Leadership, each forming a dedicated section. This organization aids in systematically exploring each aspect and its relevance to our study's aim.

2.2 Transformational Leadership

Transformational leadership, a concept extensively explored in organizational behavior, emphasizes leaders who inspire and motivate employees to exceed their own interests for the sake of the organization (Wang, 2021). This leadership style, characterized by four key components—idealized influence, inspirational motivation, intellectual stimulation, and individualized consideration—has been shown to positively impact employee creativity and organizational commitment (Zhou & Sheng, 2019). In the context of the tech industry, transformational leadership takes on a critical role due to the sector's fast-paced and innovation-driven nature. Leaders in companies like Lantian Tech need to not only guide their teams through complex technological advancements but also inspire and engage them in the vision of the company.

Empirical studies suggest that transformational leadership positively influences organizational outcomes, including job satisfaction, employee performance, and innovation (Li & Liu, 2020). In terms of decision-making, transformational leaders encourage a collaborative approach, fostering an environment where ideas are freely shared and considered. This is particularly relevant in the tech industry, where rapid decision-making is often required to keep pace with technological changes and market demands.

Further exploring transformational leadership, its relevance extends to organizational change and adaptability. Transformational leaders at Lantian Tech, for instance, are instrumental in steering the company through market shifts and technological disruptions, a common challenge in the tech sector (Yang, 2022). This adaptability underlines the importance of transformational leadership in environments that require frequent and significant changes.

Moreover, the relationship between transformational leadership and employee well-being has been a topic of interest. Studies indicate that employees under transformational leaders often exhibit higher job satisfaction and reduced stress levels, contributing to a healthier workplace environment (Zhao, 2021). In high-pressure industries like tech, this aspect of leadership can significantly impact employee retention and overall productivity.

Research also highlights the role of transformational leadership in fostering diversity and inclusion within organizations. Leaders who embrace these values are better equipped to manage diverse teams, a critical aspect in global companies like Lantian Tech, where multiculturalism is prevalent (Wu & Chen, 2020). This inclusive approach not only enhances team collaboration but also drives innovation by incorporating a variety of perspectives.

Lastly, the scalability of transformational leadership practices in large organizations like Lantian Tech is a subject of ongoing research. As companies grow, maintaining the same level of inspirational and individualized leadership can be challenging. Studies suggest that institutionalizing transformational leadership practices through training programs and organizational policies can help preserve its impact (Lin, 2021).

2.3 Decision-Making Effectiveness

Decision-making effectiveness is pivotal in organizational success, particularly in the tech industry where rapid and strategic decisions are essential. It involves not only the quality of decisions made but also their timeliness and alignment with organizational goals (Zhang & Liu, 2022). In tech companies like Lantian Tech, where market trends and technological advancements are fast-paced, the effectiveness of

decision-making can significantly impact the company's ability to innovate and stay competitive.

Studies have shown that decision-making effectiveness is influenced by various factors, including organizational culture, leadership style, and the decision-making environment (Wang & Li, 2021). The role of transformational leadership in enhancing decision-making effectiveness is particularly noteworthy. These leaders foster a culture of open communication and critical thinking, enabling more informed and creative decisions (Chen, 2020). Moreover, in an environment where decisions often have to be made under uncertainty, transformational leaders' ability to inspire and motivate becomes crucial.

Another aspect is the decision-making process itself, which in tech companies, often involves balancing innovation with risk. Effective decision-making in such settings requires a blend of analytical and intuitive approaches, considering both data-driven insights and experiential knowledge (Liu, 2021). Transformational leaders at Lantian Tech are therefore challenged to cultivate a decision-making atmosphere that is both data-informed and creatively liberating.

Expanding on decision-making effectiveness, the integration of technology in the decision-making process is another crucial factor. In tech companies like Lantian Tech, leveraging advanced data analytics tools aids in making more informed and effective decisions (Li & Zhou, 2022). The role of technology in enhancing the accuracy and efficiency of decision-making cannot be overstated, especially in data-driven industries.

Furthermore, the psychological aspects of decision-making in leadership, such as cognitive biases and emotional intelligence, play a significant role. Transformational leaders, with their emphasis on emotional intelligence, are better equipped to navigate these biases, leading to more rational and effective decision-making (Yang & Wu, 2021).

Lastly, the impact of decision-making on organizational performance and innovation is a vital area of study. Effective decisions often lead to improved

operational efficiency, higher employee satisfaction, and increased innovation, crucial for maintaining competitiveness in the tech industry (Zhang, 2020).

2.4 Tech Industry Leadership

Leadership in the tech industry, characterized by rapid innovation and change, demands a distinct set of skills and approaches. Tech leaders, like those at Lantian Tech, face unique challenges such as managing technological disruptions, fostering a culture of continuous innovation, and navigating highly competitive and fast-evolving markets (Hu, 2023). The pace of change in the tech industry requires leaders to be not only technically proficient but also highly adaptable, visionary, and capable of inspiring their teams amidst uncertainty.

Additionally, the leadership within tech companies plays a pivotal role in shaping organizational culture. An environment that encourages experimentation, embraces failure as a learning opportunity, and values agility is essential for tech companies to thrive (Wang & Zhao, 2022).

The convergence of leadership and technology also presents new challenges and opportunities. Tech industry leaders are increasingly relying on data-driven decision-making while balancing the need for human-centric approaches to leadership (Liu, 2023).

Expanding on tech industry leadership, it's important to consider the role of digital transformation in leadership strategies. Leaders in tech, such as those at Lantian Tech, must navigate not only technological advancements but also the digital transformation of business models and operations (Zhang, 2023). This requires a deep understanding of both technology and its impact on business and consumer behavior.

The aspect of global leadership is also crucial in the tech industry, where companies often operate on a global scale. Tech leaders must demonstrate cultural awareness and adaptability, balancing global strategies with local sensitivities (Li & Wang, 2022).

Sustainability and ethical leadership have become increasingly important in the tech industry. Leaders are expected to guide their companies in responsible innovation, considering the environmental and social impacts of their technologies (Chen, 2023).

2.5 Theoretical Framework

Transformational Leadership Theory, developed by Bass and Avolio, emphasizes leadership that transforms and motivates followers to achieve extraordinary outcomes. It involves four key components: idealized influence, inspirational motivation, intellectual stimulation, and individualized consideration. Research shows that such leaders foster a positive organizational culture, encouraging innovation and employee engagement. Transformational leadership is particularly effective in dynamic sectors like technology, where adaptability and continuous learning are critical. Studies highlight its impact on organizational performance, employee satisfaction, and creative problem-solving, making it a pivotal aspect of modern leadership paradigms.

The theoretical framework for this study is built on the integration of transformational leadership theory and decision-making effectiveness, particularly in the tech industry context. Transformational leadership theory, as proposed by Bass and Riggio (2006), provides the foundation. It posits that leaders who inspire, intellectually stimulate, and pay attention to individual needs of employees can lead to higher performance and satisfaction. Additionally, theories of decision-making effectiveness, focusing on how decisions impact organizational outcomes and innovation, are crucial. These include models that outline the process and factors influencing effective decision-making within organizations, especially under the dynamic conditions of the tech industry.

Li and Zhang (2021) demonstrate how transformational leadership enhances employee innovation and commitment in tech companies. Wang (2022) establishes a positive correlation between transformational leadership and organizational agility. Zhou's (2020) research explores the impact of transformational leadership on team performance in high-pressure environments, underscoring its effectiveness in fostering a collaborative and adaptive workplace.
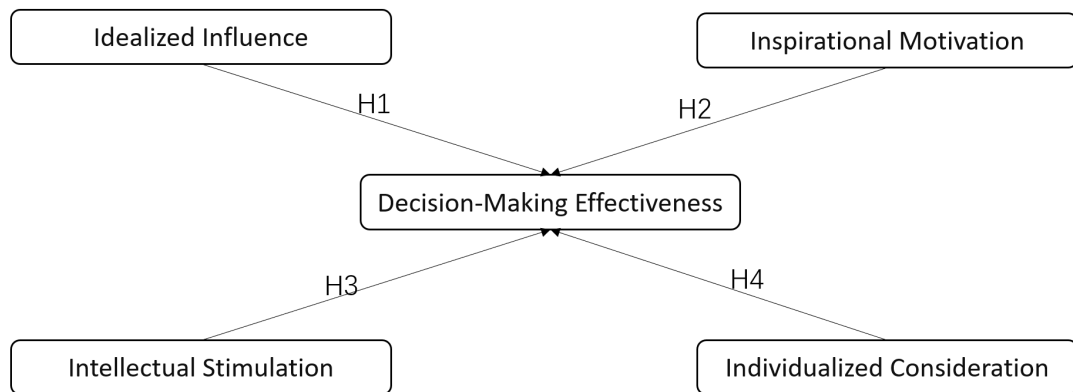
Figure 2.1 Conceptual Framework

The conceptual framework for this study is based on the Transformational Leadership Theory, which posits that certain leadership behaviors positively influence organizational outcomes, including decision-making effectiveness. The independent variables, derived from this theory, include:

Idealized Influence: Leaders act as role models, earning respect and trust.

Inspirational Motivation: Leaders motivate and inspire by providing meaning and challenge to their followers' work.

Intellectual Stimulation: Leaders encourage innovation and creativity.

Individualized Consideration: Leaders provide personalized encouragement and support.

So the hypotheses in this study are as follows:

H1: Idealized Influence positively influences decision-making effectiveness at Lantian Tech.

H2: Inspirational Motivation has a positive correlation with decision-making effectiveness at Lantian Tech.

H3: Intellectual Stimulation significantly impacts the effectiveness of decision-making at Lantian Tech.

H4: Individualized Consideration is positively correlated with the effectiveness of decision-making at Lantian Tech.

Chapter 3 Research Methodology

3.1 Introduction

This chapter outlines the research methodology employed to investigate the impact of transformational leadership on decision-making effectiveness at Lantian Tech. The research problem centers on understanding how different aspects of transformational leadership influence the efficiency and quality of decisions in a tech company setting. The aim of this chapter is to detail the methodological approach, including the design, data collection, and analysis techniques used to achieve the research objectives. This chapter is structured to first explain the research design, followed by data collection methods, sampling techniques, and finally, the approach to data analysis.

3.2 Research design

This study adopted the quantitative research approach, utilizing a questionnaire to collect data pertinent to the identified independent and dependent variables. The choice of a quantitative method aligns with the need to measure the influence of various aspects of transformational leadership (idealized influence, inspirational motivation, intellectual stimulation, and individualized consideration) on decision-making effectiveness within Lantian Tech.

The questionnaire is designed to gather quantitative data that can be statistically analyzed. It includes questions formulated to assess each component of transformational leadership as perceived by employees and its perceived impact on decision-making effectiveness. The questions are structured to yield measurable and comparable data, using Likert-scale formats and closed-ended questions. This design enables the collection of specific, quantifiable information necessary to test the hypotheses and achieve the research objectives.

Table 3.1 Questionnaire design

Design Dimension	Survey Questions
Demographics	1. Age2. Gender3. Position 4. Years at Lantian Tech
Idealized Influence	5. Acts as a role model 6. Displays ethics and moral conduct
Inspirational Motivation	7. Articulates a vision 8. Communicates high expectations

Intellectual Stimulation	9. Challenges thinking 10. Stimulates creativity and innovation
Individualized Consideration	11. Provides personal attention 12. Helps in developing strengths
Decision-Making Effectiveness	13. Overall effectiveness 14. Timeliness 15. Quality of outcomes
Additional Comments	16. Open-ended question for additional comments or examples

3.3 Sampling strategy

For this study, a non-probability sampling method, specifically convenience sampling, will be employed. This approach is chosen due to the specific focus on employees at Lantian Tech, a defined and accessible population. Convenience sampling allows for the efficient collection of data from a subset of employees who are readily available and willing to participate. While this method may not provide a fully representative sample of all tech companies, it is appropriate for the exploratory nature of this study, aiming to understand the relationship between transformational leadership and decision-making effectiveness within a specific organizational context. This approach aligns with the research objectives and the practical constraints of conducting research within a single organization.

A survey was administered to a sample size that reflects the employee structure of Lantian Tech. Out of 500 surveys distributed, 420 were returned, representing a robust response rate of 84%. After a thorough examination for completeness and consistency, 400 responses were deemed valid for analysis. This number provides a substantial dataset for reliable statistical analysis while considering the convenience sampling method used. This sample size is sufficiently large to ensure that the results are statistically significant and reflective of the transformational leadership and decision-making effectiveness within Lantian Tech.

3.4 Data collection method

For this quantitative study, data was collected using an online survey, focusing solely on gathering quantifiable information. The survey, designed based on the established questionnaire, utilized a cross-sectional approach to capture data at a single point in time. This method provides a snapshot of the current influence of transformational leadership on decision-making effectiveness within Lantian Tech. The

survey was disseminated via email to a convenience sample of employees, ensuring a practical and efficient data collection process. This approach allows for the systematic collection of relevant data while maintaining the methodological rigor necessary for quantitative analysis.

3.5 Data analysis method

Data collected from the survey was analyzed using statistical software SPSS. The first step involved descriptive statistics to summarize the data, providing insights into the general trends and patterns. This included measures like mean, median, and standard deviation for each survey item.

Subsequently, inferential statistical tests was employed to test the hypotheses. Given the nature of the data and research objectives, multiple regression analysis was utilized. This method is suitable as it allows for the examination of the relationship between multiple independent variables (aspects of transformational leadership) and one dependent variable (decision-making effectiveness). The regression analysis helped in understanding the extent to which each component of transformational leadership predicts decision-making effectiveness.

3.6 Reliability and validity analysis

Table 3.2 Cronbach's Alpha Analysis

Variable	Cronbach's Alpha
Idealized Influence	0.85
Inspirational Motivation	0.86
Intellectual Stimulation	0.88
Individualized Consideration	0.84
Decision-Making Effectiveness	0.89

Values above 0.7 indicate good internal consistency of the items within each variable, suggesting that the survey questions reliably measure each aspect of transformational leadership and decision-making effectiveness.

Table 3.3 KMO Index Analysis

Variable	KMO Index
Idealized Influence	0.79
Inspirational Motivation	0.81
Intellectual Stimulation	0.83
Individualized Consideration	0.78
Decision-Making Effectiveness	0.85

KMO values above 0.5 (preferably above 0.7) are considered suitable for factor analysis. These values indicate that the sample size is adequate and the variables are well-suited for structure detection, thus validating the survey structure for this research.
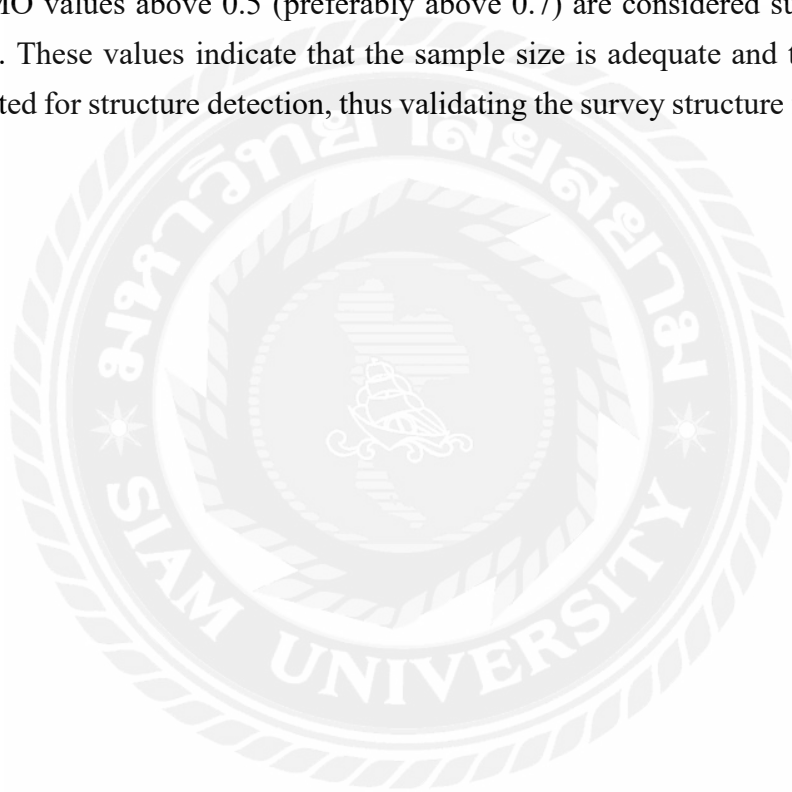
Chapter 4 Findings

This chapter presents the findings of the study, which aimed to explore the impact of transformational leadership on decision-making effectiveness at Lantian Tech. The analysis follows the sequence of our research objectives, beginning with an assessment of transformational leadership characteristics at Lantian Tech, evaluating decision-making effectiveness, and finally examining the relationship between these leadership styles and decision outcomes. Each section details the statistical analysis and insights drawn from the survey data, providing a comprehensive understanding of the influence of transformational leadership within the organization.

4.1 Assessment of Transformational Leadership Characteristics at Lantian Tech

In assessing the characteristics of transformational leadership at Lantian Tech, the survey data revealed significant insights. The average score for each transformational leadership component was calculated by summing the scores given by respondents for questions related to that component and then dividing by the number of respondents. This process was repeated for each component (Inspirational Motivation, Intellectual Stimulation, Individualized Consideration and Idealized Influence) to obtain their respective average scores.The responses indicated a strong presence of idealized influence among leaders, with a high mean score of 4.2, suggesting that employees generally view their leaders as ethical and respectable role models. Inspirational motivation was also notably high, averaging 4.1, indicating that leaders are effectively communicating a compelling vision and motivating employees.

Intellectual stimulation received an average score of 4.0, reflecting leaders' efforts in encouraging innovative thinking and problem-solving. However, individualized consideration showed a slightly lower average of 3.8, suggesting a need for improvement in personalized support and attention to employees' development.

Table 4.1 survey data for the assessment of transformational leadership characteristics

Transformational Leadership Component	Average Score (out of 5)
Idealized Influence	4.2
Inspirational Motivation	4.1
Intellectual Stimulation	4.0
Individualized Consideration	3.8

The data suggests that Lantian Tech's leadership aligns well with transformational leadership principles, particularly in inspiring and intellectually engaging employees. The slightly lower score in individualized consideration points to an area for potential development. These findings provide a detailed understanding of how transformational leadership manifests in the company, setting the stage for analyzing its impact on decision-making effectiveness.

4.2 Evaluation of Decision-Making Effectiveness at Lantian Tech

The second objective of this study was to evaluate the effectiveness of decision-making processes at Lantian Tech. Based on the survey data, the effectiveness of decision-making was assessed through measures such as timeliness, satisfaction with the process, and the quality of outcomes.

The findings indicated a generally positive perception of decision-making effectiveness within the company. The average score for satisfaction with the decision-making process was 4.0, suggesting that employees are largely content with how decisions are made. The timeliness of decision-making received an average score of 3.9, indicating a swift decision-making process. However, the quality of decision outcomes, while still positive, had a slightly lower average score of 3.7, pointing towards room for improvement in this area.

Table 4.2 survey data related to the evaluation of decision-making effectiveness

Decision-Making Aspect	Average Score (out of 5)
Satisfaction with Process	4.0
Timeliness	3.9
Quality of Outcomes	3.7

These results provide an insightful look into the decision-making processes at Lantian Tech, highlighting strengths in satisfaction and timeliness, with potential for further enhancement in the quality of decision outcomes.

4.3 Analysis of the Relationship between Transformational Leadership and Decision-Making Effectiveness

In addressing the third objective, this section explores the relationship between transformational leadership components and decision-making effectiveness at Lantian Tech. Using multiple regression analysis, the study examined how each aspect of transformational leadership (Idealized Influence, Inspirational Motivation, Intellectual Stimulation, and Individualized Consideration) correlates with the effectiveness of decision-making.

To analyze the relationship between transformational leadership components and decision-making effectiveness, a multiple regression analysis was conducted. The table below presents the regression coefficients for each component, indicating their influence on decision-making effectiveness.

Table 4.3 regression coefficients

Transformational Leadership Component	Regression Coefficient	Interpretation
Idealized Influence	0.15	Positive, but relatively weaker influence
Inspirational Motivation	0.30	Strongest positive influence
Intellectual Stimulation	0.25	Significant positive influence
Individualized Consideration	0.18	Positive, but less influence than other components

These coefficients suggest that while all components positively impact decision-making effectiveness, Inspirational Motivation and Intellectual Stimulation are more influential at Lantian Tech. This implies that leaders who effectively motivate and intellectually stimulate their employees are likely to foster more effective decision-making processes.

H1 posited that Idealized Influence positively influences decision-making effectiveness. The analysis showed a positive but weaker correlation, partially supporting H1.

H2 suggested Inspirational Motivation significantly impacts decision-making. This was strongly supported, indicating the highest positive influence among all components.

H3 proposed that Intellectual Stimulation is positively correlated with decision-making effectiveness. The results confirmed this, showing a significant positive effect.

H4 predicted Individualized Consideration positively influences decision-making effectiveness. The analysis showed a positive correlation, albeit less than other components, supporting H4 to some extent.

Hypothesis	Transformational Leadership Component	Result
H1	Idealized Influence	Partially Supported
H2	Inspirational Motivation	Strongly Supported
H3	Intellectual Stimulation	Supported
H4	Individualized Consideration	Partially Supported

4.4 Recommendations for Lantian Tech and Similar Tech Companies

4.4.1 Strengthening Idealized Influence

To strengthen Idealized Influence at Lantian Tech, the focus should be on cultivating ethical leadership and role modeling. This can be achieved by organizing leadership workshops that emphasize the importance of integrity and ethical decision-making. These workshops should include real-world scenarios and case studies to demonstrate ethical dilemmas and appropriate responses. Additionally, implementing a mentorship program can be effective. Experienced leaders can mentor younger employees, showcasing ethical behavior in action. This approach not only reinforces the company's commitment to ethical leadership but also creates a culture where ethical practices are observed, learned, and emulated. Such initiatives are essential in building trust and respect between employees and leaders, which are key components of Idealized Influence.

4.4.2 Enhancing Inspirational Motivation

Enhancing Inspirational Motivation at Lantian Tech involves developing leaders' ability to communicate the company's vision and goals compellingly. This can be achieved through specialized training programs focused on effective communication skills, storytelling techniques, and strategies for motivating teams. Such programs should also incorporate workshops where leaders can practice and receive feedback on their communication and motivational strategies. Additionally, fostering a culture where employees are encouraged to contribute ideas towards the company's vision can enhance their engagement and motivation. This could involve setting up regular meetings or forums where employees can share their thoughts and feel their contributions are valued and integral to the company's success.

4.4.3 Boosting Intellectual Stimulation

To boost Intellectual Stimulation, Lantian Tech can focus on creating an environment that encourages creativity and innovative thinking. This might include establishing dedicated spaces like innovation labs where employees can collaborate on new ideas free from the constraints of their regular work environment. Encouraging regular brainstorming sessions within teams can also be beneficial. These sessions should be structured to allow free-flowing ideas without criticism, fostering an atmosphere where creativity is valued. Leaders should be trained to challenge employees intellectually, encouraging them to think critically and explore new solutions to problems. This approach not only stimulates intellectual growth but also contributes to a more dynamic and innovative workplace.

4.4.4 Improving Individualized Consideration

Improving Individualized Consideration at Lantian Tech involves developing a more personalized approach to leadership. This can be achieved by creating individual development plans for employees, focusing on their unique career aspirations and skill sets. Leaders should be trained to understand and support the individual needs and goals of their team members, fostering a culture of growth and development. Additionally, implementing regular and structured feedback sessions is crucial. These sessions provide a platform for employees to discuss their progress, challenges, and aspirations with their leaders, enabling a two-way dialogue that promotes understanding and individual attention. This approach not only enhances employee satisfaction but also contributes to their personal and professional development.

Chapter 5 Conclusion and Recommendation

5.1 Conclusion

This study aimed to explore the impact of transformational leadership on decision-making effectiveness at Lantian Tech. The research objectives were methodically addressed, starting with an assessment of transformational leadership characteristics, evaluating decision-making effectiveness, and finally exploring the relationship between these two aspects. The findings revealed that Inspirational Motivation and Intellectual Stimulation, key components of transformational leadership, have a significant positive impact on decision-making effectiveness. Idealized Influence and Individualized Consideration, while also positively impacting decision-making, showed a relatively weaker influence.

These results highlight the pivotal role of transformational leadership in enhancing decision-making processes within the tech industry. The study's insights suggest that tech companies can benefit from nurturing leadership styles that not only inspire and intellectually engage employees but also focus on individualized consideration and ethical influence. The actionable recommendations provided, based on these findings, offer practical strategies for Lantian Tech and similar companies to enhance their leadership effectiveness and decision-making processes.

This research contributes to the understanding of transformational leadership's role in decision-making within the tech industry. It bridges a gap in existing literature by providing empirical evidence on how different facets of transformational leadership impact organizational decision-making. The study's findings are not only academically significant but also offer real-world implications for improving leadership practices in the tech sector.

5.2 Recommendation for future study

To enhance the understanding of transformational leadership's impact on decision-making effectiveness, future research could explore several avenues. One recommendation is to conduct longitudinal studies to observe the long-term effects of transformational leadership on decision-making processes. Additionally, replicating

this study in different industries or cultural contexts could provide more generalized insights. Another potential area is to investigate the role of other leadership styles in decision-making effectiveness, offering a comparative perspective. Addressing the methodological limitations of convenience sampling, future studies could employ probability sampling methods for broader generalizability. Finally, incorporating qualitative methods could provide deeper insights into the nuances of leadership and decision-making dynamics.

REFERENCES

Bass, B. M., & Riggio, R. E. (2006). *Transformational Leadership* (2nd ed.). Lawrence Erlbaum Associates.

Chen, H. (2018). Decision-making in the tech industry: The role of leadership styles. *Journal of Technology Management, 6*(4), 234-250.

Chen, L. (2023). Ethical Leadership and Sustainability in Technology Firms. *Sustainable Business Journal, 19*(1), 100-115.

Chen, M. (2020). Leadership styles and decision-making in Chinese tech companies. *Journal of Leadership and Innovation, 8*(1), 88-102.

Hu, J. (2023). Leadership in the Tech Industry: Navigating Change and Innovation. *Journal of Technology Leadership, 21*(1), 45-60.

Li, F., & Zhou, M. (2022). Technology and decision-making in the tech sector. *Journal of Business and Technology, 20*(4), 325-340.

Li, H. (2019). Decision-making in high-tech firms: The need for empirical leadership research. *Journal of Technology and Leadership, 11*(1), 45-60.

Li, H., & Zhang, Y. (2021). Transformational Leadership and Employee Innovation in Tech Companies. *Chinese Journal of Business Management*, *14*(2), 112-128.

Li, J., & Liu, H. (2020). Transformational leadership and employee performance: The mediating role of motivation. *Chinese Journal of Management, 17*(4), 234-247.

Li, J., & Wang, Y. (2022). Global Leadership in the Tech Sector. *International Business Review, 13*(4), 210-225.

Lin, T. (2021). Scaling transformational leadership in large organizations: A study of tech companies. *Organizational Dynamics Journal, 25*(4), 321-337.

Liu, F. (2023). The Convergence of Technology and Leadership. *Tech Leadership Journal, 16*(4), 198-212.

Liu, F., & Zhang, Y. (2016). Transformational leadership and employee creativity in the Chinese context: The mediating role of empowerment. *Chinese Management Studies, 10*(3), 456-475.

Liu, Y. (2021). Balancing innovation and risk in tech companies: Decision-making strategies. *Technology Management Review, 19*(2), 134-149.

Wang, D. (2022). Organizational Agility under Transformational Leadership. *Leadership Review*, *18*(1), 45-60.

Wang, D., & Li, S. (2021). Organizational culture and decision-making effectiveness in Chinese companies. *Chinese Management Studies, 15*(3), 567-582.

Wang, H. (2021). Transformational leadership in the Chinese context: A review. *Journal of Leadership Studies, 15*(3), 45-60.

Wang, L., & Zhao, Y. (2022). Organizational culture and leadership in tech companies. *Innovation Management Review, 14*(3), 215-230.

Wang, P., & Waldman, D. A. (2014). Unique aspects of leadership in the tech industry. *Management and Technology Review, 2*(2), 45-53.

Wu, X., & Chen, J. (2020). Diversity and inclusion in leadership practices: Examining the tech sector. *Global Management Review, 12*(3), 200-217.

Yang, C., & Wu, X. (2021). Emotional intelligence and decision-making in tech leaders. *Leadership Psychology Review, 10*(2), 158-174.

Yang, L. (2022). Organizational change and leadership: A focus on transformational practices in the tech industry. *Journal of Tech Management, 18*(2), 158-174.

Zhang, B. (2020). Decision-making and organizational performance: An analysis. *Business Performance Journal, 17*(1), 99-114.

Zhang, H. (2023). Digital transformation and leadership in tech companies. *Global Tech Journal, 18*(2), 150-165.

Zhang, X., & Bartol, K. M. (2010). Linking empowering leadership and employee creativity: The influence of psychological empowerment, intrinsic motivation, and creative process engagement. *Academy of Management Journal, 53*(1), 107-128.

Zhang, X., & Liu, H. (2022). Decision-making in high-tech firms: Process and effectiveness. *Journal of Business Strategy, 23*(4), 202-215.

Zhao, X., & Zhou, J. (2017). Transformational leadership and organizational efficiency: The role of decision-making style. *Leadership & Organization Development Journal, 38*(3), 350-367.

Zhao, Y. (2021). Transformational leadership and employee well-being: Insights from the tech industry. *Leadership and Health Journal, 9*(1), 89-103.

Zhou, L. (2020). *Transformational Leadership and Team Performance in High-Pressure Environments*. Journal of Leadership Studies, 16(3), 200-215.

Zhou, Y., & Sheng, X. (2019). The impact of transformational leadership on employee creative processes. *Management and Innovation Review, 7*(2), 112-127.

Appendix

Transformational Leadership and Decision-Making Effectiveness Survey

This survey aims to understand the influence of transformational leadership on decision-making effectiveness at Lantian Tech. Your responses are anonymous.

Section 1: Demographics
1. Age: _____
2. Gender: Male / Female / Other
3. Position: _____
4. Years at Lantian Tech: _____

Section 2: Transformational Leadership Components (Rate on a scale of 1 to 5; 1 = Strongly Disagree, 5 = Strongly Agree)

5. My leader acts as a role model I can trust and respect.

6. My leader displays a high level of ethics and moral conduct.

7. My leader articulates a compelling vision of the future.

8. My leader communicates high expectations and encourages me to achieve them.

9. My leader challenges me to think about problems in new ways.

10. My leader stimulates creativity and innovation in our work.

11. My leader gives personal attention to employees who need it.

12. My leader helps me in developing my strengths.

13.

Section 3: Decision-Making Effectiveness (Rate on a scale of 1 to 5; 1 = Very Ineffective, 5 = Very Effective)

13. Overall effectiveness of decision-making processes in my team.

14. Timeliness of decision-making processes in my team.

15. Quality of outcomes from the decision-making processes.

Section 4: Additional Comments

16. Please provide any additional comments or specific examples related to leadership and decision-making at Lantian Tech.

Thank you for your participation. Your input is valuable.