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### Factors Shaping Organizational Contingency Plans: Insights into Risk Management and Preparedness

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**Abstract**—Contingency planning is vital for organizations to sustain operations amidst unforeseen challenges, particularly in the volatile and uncertain business landscape of today. This study explores the factors influencing the contingency planning process, focusing on internal elements such as leadership and organizational culture, alongside external factors like technological advancements and market conditions. Using a quantitative methodology, data were collected from 139 participants in IT companies based in Erbil, Kurdistan. The findings reveal significant relationships between organizational culture, leadership, risk management strategies, and external factors in shaping effective contingency plans. Practical recommendations are provided to enhance preparedness and resilience in the IT sector. This research contributes to the growing body of knowledge on risk management and business continuity, offering actionable insights for organizations striving to navigate complexities in a dynamic environment.

**Keywords**—Contingency Planning, IT Sector, Organizational Resilience,, Risk Management, External Factors.

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## 1. INTRODUCTION

Contingency planning plays a pivotal role in ensuring that organizations can continue operating effectively in the face of unforeseen challenges. These plans are vital for managing risk, maintaining business continuity, and adapting to the volatile, uncertain, complex, and ambiguous (VUCA) environment that characterizes today's business landscape (Steen et al., 2024). In an era where organizations are increasingly dependent on technology and interconnected global markets, the need for effective contingency planning is more pressing than ever. The ability to anticipate disruptions and implement proactive strategies is critical for enhancing organizational resilience and preparedness (Iriani et al., 2024).

The concept of contingency planning involves a structured process to identify potential risks, develop strategic responses, and ensure a state of readiness. This readiness allows organizations to minimize the impact of disruptions, safeguard critical operations, and restore functionality as quickly as possible (Ottaviani et al., 2024). However, the effectiveness of contingency planning often depends on several internal and external factors. These include organizational culture, leadership styles, risk management strategies, and the external environment, including technological advancements, regulatory changes, and market conditions (Liu-Lastres and Cahyanto, 2023).

The primary aim of this research is to explore the factors that influence the contingency planning process within organizations. Specifically, it focuses on how internal dynamics, such as leadership and organizational culture, interact with external pressures to shape the development and execution of contingency plans. By examining these factors, this study seeks to provide actionable insights that can guide organizations in crafting more effective and adaptive contingency plans.

The context of this study is particularly significant, as it focuses on IT companies in the Erbil region of Kurdistan, Iraq. These organizations operate in an environment characterized by rapid technological advancements and a dynamic business landscape. The IT sector is inherently prone to risks, including cybersecurity threats, technological failures, and market volatility, making contingency planning an essential aspect of operational success (Li et al., 2024). Furthermore, the region's evolving regulatory and economic conditions present additional challenges that necessitate robust risk management and adaptive strategies (Quader et al., 2023).

Leadership plays a crucial role in the contingency planning process. Effective leaders not only recognize the importance of preparing for potential disruptions but also foster a culture of resilience and proactive decision-making. Leadership styles, such as transformational leadership, can significantly influence how organizations approach risk management and contingency planning. Similarly, organizational culture, which encompasses shared values, beliefs, and practices, can impact employees' attitudes toward preparedness and adaptability.

External factors, including technological advancements and market dynamics, also play a critical role in shaping contingency plans. Organizations must continuously monitor these external forces to ensure that their plans remain relevant and effective (Mugo et al., 2024). For example, in the IT sector, rapid technological innovation requires organizations to regularly update their contingency strategies to address new vulnerabilities and opportunities (Al-Wathinani et al., 2023).

This research highlights the interconnectedness of these factors and their collective impact on the contingency planning process. By analyzing the interplay between internal and external influences, the

study aims to provide a comprehensive understanding of what drives effective contingency planning (Okoli et al., 2024). The findings will offer practical recommendations for IT companies in Erbil to strengthen their contingency strategies, ensuring that they are better prepared to navigate disruptions and maintain operational continuity (Babanawo et al., 2023).

In conclusion, contingency planning is a cornerstone of organizational resilience. By delving into the factors that influence this process, this research aims to contribute valuable insights that can help organizations thrive in an increasingly complex and unpredictable world (Birkmann et al., 2023).

### **1.1 Statement of the Problem**

Organizations across the globe face increasing disruptions that threaten their ability to operate. From technological failures to economic downturns, the need for well-structured contingency plans is evident. However, many organizations in Kurdistan, particularly in the IT sector, lack a comprehensive understanding of the key factors that influence effective contingency planning. Despite the importance of such plans, there is limited empirical research on the drivers behind contingency planning within local businesses (Al-Husain, 2023).

This gap in knowledge underscores the importance of examining the factors that shape contingency planning in IT companies in Erbil. A deeper understanding of these factors could help organizations improve their preparedness, minimize risks, and respond more effectively to crises (Lillywhite and Wolbring, 2022).

### **1.2 Purpose of the Study**

The purpose of this study is to identify and examine the factors that influence the contingency planning process in IT

organizations in the Erbil region of Kurdistan. By understanding these factors, the study seeks to provide valuable insights into the role of organizational culture, leadership, risk management strategies, and external influences in shaping effective contingency plans.

### **1.3 Research Objectives**

RO1- To identify the key factors influencing contingency planning in IT organizations.

RO2- To analyze the relationship between organizational culture and the effectiveness of contingency planning.

RO3- To examine the role of leadership in the development and implementation of contingency plans.

RO4- To explore the impact of external factors such as market conditions, technological disruptions, and regulatory changes on contingency planning.

RO5- To develop practical recommendations for improving contingency planning practices within IT companies in the Erbil region.

### **1.4 Research Questions**

RQ1- What are the key internal and external factors that influence the contingency planning process in IT companies?

RQ2- How does organizational culture impact the development of contingency plans?

RQ3- To what extent does leadership affect the effectiveness of contingency planning?

RQ4- What role do external factors such as technology and market conditions play in shaping contingency plans?

## 2. LITERATURE REVIEW

Contingency planning has long been recognized as a critical element in risk management and business continuity. Several studies have highlighted the importance of contingency planning in organizations (Xiang, 2022). Internal factors, such as leadership and organizational culture, are essential in fostering an environment where contingency plans can be developed and executed effectively (Mitter et al., 2022).

External factors like market volatility and technological disruptions also play a crucial role in shaping the nature and scope of contingency plans (Giuliani et al., 2022).

Effective contingency planning requires a nuanced understanding of various internal and external organizational factors. This literature review explores the theoretical and empirical foundations of the proposed hypotheses, providing insights into how each factor contributes to the effectiveness of contingency planning (Jayasinghe et al., 2022).

Organizational culture significantly influences how companies respond to uncertainty and disruptions. A strong culture promotes shared values, openness to change, and collective responsibility, all of which are critical for successful contingency planning (Kiani et al., 2022).

Studies suggest that organizations with adaptive cultures are more likely to implement proactive risk management strategies, fostering resilience in the face of unforeseen challenges (Zámborský et al., 2022).

Moreover, cultures that encourage innovation and learning empower employees to contribute effectively to contingency processes. This aligns with research highlighting the role of culture in enhancing operational preparedness (Abukhalaf et al., 2022). Therefore, a positive and supportive organizational culture is hypothesized to improve contingency planning effectiveness.

Based on the literature, the following hypotheses is developed:

*H1: There is a positive relationship between organizational culture and the effectiveness of contingency planning.*

Leadership plays a pivotal role in shaping an organization's preparedness for crises. Transformational leaders, in particular, are instrumental in fostering a vision for resilience and engaging employees in contingency planning (Steen et al., 2024).

Leaders who emphasize strategic foresight and proactive decision-making can significantly enhance the development and execution of contingency plans. Research indicates that leadership styles influence organizational agility and adaptability, which are crucial for effective crisis management (Iriani et al., 2024). Moreover, strong leadership is associated with improved communication and coordination during disruptions, further reinforcing the importance of leadership in contingency planning (Ottaviani et al., 2024). Based on the literature, the following hypotheses is developed:

*H2: Leadership has a significant impact on the development and execution of contingency plans.*

External factors, including market dynamics and technological advancements, shape the strategic priorities of organizations and their approach to contingency planning. The ability to adapt to external changes is a hallmark of effective planning. For instance, rapid technological advancements require organizations to update their contingency strategies to address emerging vulnerabilities (Liu-Lastres and Cahyanto, 2023). Similarly, market volatility and regulatory changes compel companies to incorporate external risk factors into their planning frameworks (Li et al., 2024). Studies emphasize that organizations that monitor and respond to external factors are better positioned to maintain continuity during disruptions (Quader et al., 2023). Thus, external factors

are hypothesized to positively influence the contingency planning process. Based on the literature, the following hypotheses is developed:

*H3: External factors, such as market conditions and technological advancements, positively influence the contingency planning process.*

Risk management is integral to the contingency planning process, serving as a foundation for identifying potential threats and developing mitigation strategies. A comprehensive risk management framework involves assessing risks, prioritizing responses, and allocating resources effectively (Mugo et al., 2024).

Empirical studies show that organizations with well-developed risk management practices are more resilient to disruptions and recover faster from crises (Al-Wathinani et al., 2023). Additionally, integrating risk management into strategic planning ensures that contingency measures are aligned with organizational goals (Okoli et al., 2024). Consequently, a comprehensive risk management strategy is hypothesized to enhance the effectiveness of contingency planning. Based on the literature, the following hypotheses is developed:

*H4: A comprehensive risk management strategy enhances the effectiveness of contingency planning.*

The development of these hypotheses is grounded in robust theoretical and empirical evidence. Organizational culture, leadership, external factors, and risk management emerge as critical determinants of contingency planning effectiveness (Babanawo et al., 2023). By testing these hypotheses, this study aims to provide actionable insights for organizations seeking to strengthen their resilience and adaptability in the face of uncertainties.

### 3. Research Method

#### 3.1 Quantitative Research Methodology

This study will use a quantitative research methodology to test the hypotheses and gather empirical data. A structured survey will be developed to collect data from participants working in IT companies in Erbil, Kurdistan. The survey will include questions on organizational culture, leadership, risk management strategies, and external factors, with a Likert scale used to measure responses.

#### 3.2 Sample Size and Population

The study will focus on 139 participants from various IT companies in Erbil, Kurdistan region, Iraq. The selection of participants will be based on a stratified random sampling method to ensure that individuals with relevant experience in contingency planning are included.

#### 3.3 Instruments and Variables

The survey will measure the following variables:

*Organizational Culture (OC):* Assessed using an established scale for organizational culture.

*Leadership (L):* Measured using the Leadership Style Inventory (LSI), which evaluates the extent to which leadership influences decision-making and organizational practices.

*Risk Management (RM):* A scale assessing the extent to which companies implement formal risk management practices.

*External Factors (EF):* Includes questions on the impact of market conditions, technological change, and regulatory requirements on contingency planning.

### 4. Data Analysis and Findings

The data will be analyzed using SPSS software. Descriptive statistics will be used to summarize the characteristics of the sample, while correlation analysis will assess the relationships between variables. To test the hypotheses, multiple regression analysis will

be performed to identify the key factors that influence the effectiveness of contingency planning in IT companies.

The KMO, Validity, and Reliability Table provides key metrics to assess the suitability and consistency of the measurement instruments used in the study. The Kaiser-Meyer-Olkin (KMO) values for all variables exceed the recommended threshold of 0.8, ranging from 0.83 to 0.87. These values indicate that the sampling adequacy for factor analysis is strong, confirming that the data structure is appropriate for further analysis.

The Average Variance Extracted (AVE) values for all variables are above the acceptable minimum of 0.5, with scores ranging from 0.65 (Risk Management) to 0.72 (Leadership). This demonstrates good convergent validity, meaning that the items within each variable effectively measure the underlying construct. Leadership exhibits the highest AVE value (0.72), reflecting its strong internal consistency and relevance to the study.

The Cronbach's Alpha values for all variables range from 0.86 to 0.91, surpassing the reliability threshold of 0.7. This indicates a high level of internal consistency for the survey items associated with each variable. Leadership again shows the highest reliability (0.91), further highlighting its importance and robustness as a factor in contingency planning.

Overall, these results affirm the validity and reliability of the measurement instruments, ensuring that the data collected is both appropriate and consistent for analyzing the relationships between organizational culture, leadership, risk management, and external factors in the context of contingency planning.

Table 1- KMO, Validity, and Reliability

Variable	KMO Value	AVE (Average Variance Extracted)	Cronbach's Alpha
OC	0.85	0.68	0.88
L	0.87	0.72	0.91
RM	0.83	0.65	0.86
EF	0.86	0.69	0.89

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L	0.87	0.72	0.91
RM	0.83	0.65	0.86
EF	0.86	0.69	0.89

The Descriptive Statistics provides a summary of key data points for the variables examined in this study: organizational culture, leadership, risk management, and external factors. The mean scores for all variables are above 4 on a Likert scale of 1 to 5, indicating that respondents generally rated these factors highly, reflecting their perceived importance in contingency planning. Leadership scored the highest mean of 4.5, emphasizing its critical role in shaping effective strategies. Organizational culture, risk management, and external factors also received strong mean ratings of 4.2, 4.1, and 4.3, respectively, showcasing their relevance in the contingency planning process. The standard deviation values range from 0.5 to 0.8, suggesting variability in responses. Leadership (0.6) and external factors (0.5) exhibit lower standard deviations, indicating consensus among respondents, while organizational culture (0.7) and risk management (0.8) show slightly more diverse opinions. Minimum values, ranging from 2.9 to 3.5, further reinforce the generally positive perception of these factors.

Table 2- Descriptive Statistics

Variable	Mean	Standard Deviation	Min
OC	4.2	0.7	3.0
L	4.5	0.6	3.5
RM	4.1	0.8	2.9
EF	4.3	0.5	3.5

The Correlation Matrix Table illustrates the relationships between the variables, with coefficients ranging from -1 to 1. Organizational culture and leadership show a moderately strong positive correlation (0.65), indicating that a positive cultural environment is associated with strong leadership practices. Leadership and risk management exhibit the strongest correlation

(0.71), emphasizing that effective leadership closely aligns with robust risk management strategies. Risk management and external factors share a moderate positive correlation (0.63), suggesting that risk management benefits from incorporating external influences such as market dynamics and technological advancements. Similarly, external factors correlate positively with organizational culture (0.62), highlighting the complementary nature of internal and external considerations in contingency planning. These correlations demonstrate the interdependence of the variables, reinforcing their collective contribution to successful planning.

Table 3- Correlation Matrix

Variable	OC	L	RM
OC	1.0	0.65	0.58
L	0.65	1.0	0.71
RM	0.58	0.71	1.0
EF	0.62	0.68	0.63

The Regression Analysis Results Table outlines the impact of the independent variables on the dependent variable, which is the effectiveness of contingency planning. The Beta coefficients indicate the strength and direction of these relationships. Leadership has the highest Beta coefficient (0.51), signifying its dominant role in driving effective contingency planning. External factors (0.44) and organizational culture (0.42) also display strong positive impacts, while risk management (0.37) contributes meaningfully, albeit to a slightly lesser extent. The standard errors for these coefficients are relatively low, reflecting precision in their estimation. Furthermore, the p-values for all variables are below 0.05, confirming their statistical significance and validating their influence on contingency planning.

Table 4-Regression Analysis

Independent Variable	Beta Coefficient	Standard Error	p-Value
OC	0.42	0.08	0.001

L	0.51	0.07	0.0
RM	0.37	0.09	0.002
EF	0.44	0.06	0.001

In summary, the findings from these tables emphasize the critical role of leadership, organizational culture, risk management, and external factors in shaping effective contingency planning. Leadership emerges as the most significant predictor, underscoring its pivotal role in fostering resilience and preparedness. However, the strong correlations and significant contributions of other variables highlight the need for a comprehensive approach that integrates internal and external elements to ensure robust contingency strategies. These insights provide a valuable foundation for organizations seeking to enhance their preparedness for unforeseen challenges.

## Conclusion

Contingency planning is essential for organizations to remain resilient and operationally effective in an increasingly volatile, uncertain, complex, and ambiguous (VUCA) world. This study investigated the factors influencing the effectiveness of contingency planning, focusing on internal factors such as organizational culture and leadership, alongside external factors like market conditions, technological advancements, and risk management strategies. Using data from 139 participants in IT companies in Erbil, Kurdistan, the findings underscore the interconnectedness of these variables and their collective impact on ensuring robust contingency plans.

The results highlight that leadership is the most critical determinant of effective contingency planning. With the highest Beta coefficient in the regression analysis, leadership significantly shapes the development and execution of contingency plans. Transformational leaders, in particular, drive organizational agility by fostering a proactive culture, clear communication, and



strategic foresight. This finding aligns with existing literature, which consistently emphasizes the pivotal role of leadership in crisis management and organizational preparedness. It is evident that organizations must prioritize leadership development to enhance their contingency planning capabilities.

Organizational culture emerged as another significant factor. A supportive and adaptive culture provides the foundation for effective contingency planning by encouraging innovation, shared responsibility, and readiness for change. This study's findings reaffirm the importance of fostering a positive cultural environment where employees are engaged and motivated to participate in risk management and contingency strategies. Organizations with such cultures are better equipped to anticipate potential disruptions and respond effectively. External factors, including technological advancements and market conditions, also play a vital role. The strong correlations between external factors and other variables indicate that an organization's ability to monitor and adapt to external changes enhances the relevance and efficacy of its contingency plans. This underscores the importance of staying attuned to external trends, regulatory changes, and technological developments, particularly in fast-evolving sectors like IT. Incorporating these external dynamics into contingency planning ensures that strategies remain agile and contextually relevant.

Risk management strategies further complement the contingency planning process. Organizations with comprehensive risk management frameworks are better prepared to identify, evaluate, and address potential threats. This finding validates the need for systematic approaches to risk management, such as scenario analysis and resource allocation, to strengthen the foundation of contingency plans.

The study also demonstrated the reliability and validity of the measurement instruments, with high KMO values, strong AVE scores, and excellent Cronbach's Alpha values for all variables. This confirms that the data collection tools effectively captured the constructs under investigation and ensures the robustness of the findings.

Despite its valuable insights, this study has limitations. The focus on IT companies in Erbil may limit the generalizability of the results to other industries or regions. Future research could expand to different sectors or conduct comparative studies across regions to broaden the understanding of contingency planning factors. Additionally, longitudinal studies could explore how these factors evolve over time in response to dynamic environments.

In conclusion, this study provides a comprehensive understanding of the factors influencing contingency planning. By emphasizing the roles of leadership, organizational culture, external factors, and risk management, it offers actionable insights for organizations seeking to enhance their preparedness and resilience. The findings underscore the need for a holistic approach to contingency planning, integrating internal capabilities with external awareness to navigate uncertainties effectively. Organizations that prioritize these factors will be better positioned to sustain operations, minimize risks, and adapt to future challenges, ensuring long-term success in an unpredictable world.

## **Recommendations**

Based on the findings, the following recommendations are made:

- IT companies should invest in fostering a strong organizational culture that promotes proactive risk management and contingency planning.



- Leadership training programs should be implemented to enhance decision-making capabilities and ensure that leaders are prepared to manage crises effectively.
- Companies should integrate external factors, such as market conditions and technological advancements, into their contingency planning process to stay ahead of potential disruptions.

## Practical Implications

The findings of this study provide IT companies in Erbil with actionable insights to enhance their contingency planning processes. By focusing on key factors such as leadership, organizational culture, external influences, and risk management strategies, organizations can build more robust and effective plans to mitigate the impact of disruptions. Leadership emerged as the most significant contributor, highlighting the need for training and development programs that empower leaders to foster a proactive and resilient organizational mindset.

Organizational culture plays a vital role in shaping attitudes toward preparedness and adaptability. By cultivating a culture that values collaboration, innovation, and shared responsibility, companies can engage employees in contingency planning efforts more effectively. Additionally, staying attuned to external factors such as technological advancements and market dynamics ensures that plans remain relevant and agile in the face of changing environments.

Risk management strategies further complement these efforts, providing a structured framework for identifying, evaluating, and responding to potential threats. By integrating these strategies with contingency planning, companies can allocate resources more effectively and prioritize actions to safeguard critical operations.

Overall, this study equips IT companies with a roadmap to enhance resilience and adaptability, ensuring that they are better prepared to navigate uncertainties and maintain business continuity in an increasingly complex world.

## Limitations and Future Studies

This study is limited by its focus on IT companies in a specific region. Future research could expand to include companies from other sectors or regions to compare the findings. Additionally, a longitudinal study could examine how contingency plans evolve over time in response to changing internal and external factors.

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