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Human factors in supply chain change management: Strategies for overcoming resistance and boosting engagement

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Abstract

Supply chain change management is a critical area of study, particularly focusing on human factors that significantly impact the success of these changes. This review paper examines the strategies for overcoming resistance and enhancing engagement among stakeholders during supply chain transformations. It explores the role of human factors, identifies common challenges, and evaluates various strategies to mitigate resistance and foster a collaborative environment. Through an extensive literature review, this paper provides insights into effective change management practices, offering recommendations for practitioners and highlighting areas for future research.

Keywords: Organizational Change Management; Supply Chain Transformations; Digital Transformations; Human Centered Approaches. User Resistance; End User Engagement

1. Introduction

1.1. Background and Significance

In the dynamic and competitive landscape of modern business, supply chain management (SCM) plays a pivotal role in ensuring operational efficiency and customer satisfaction. However, the implementation of changes within supply chains often encounters significant resistance, primarily due to human factors. These factors, encompassing individual behaviours, organisational culture, and leadership styles, can either facilitate or hinder the successful adoption of new processes and technologies (Kotter, 1996; Hiatt & Creasey, 2012).

1.2. Objectives of the Review

The primary objective of this review paper is to explore the human factors influencing resistance to change in supply chain management and to identify strategies that can enhance stakeholder engagement. By synthesizing existing research, this paper aims to provide a comprehensive understanding of the interplay between human factors and supply chain change initiatives, offering practical recommendations for overcoming resistance and promoting successful change adoption.

1.3. Scope and Structure of the Paper

This paper is structured as follows:

Literature Review: This section provides an overview of the role of human factors in supply chain management and the common challenges associated with change management.

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Methodology: The approach to selecting and analysing relevant literature is discussed, including criteria for inclusion and exclusion.

Discussion: An analysis of human factors and their impact on supply chain performance is presented, followed by a discussion on best practices for managing change.

Case Studies: Specific cases of supply chain change management are examined to illustrate successful strategies and lessons learned.

Conclusion: A summary of findings, implications for practice, and recommendations for future research are provided.

By addressing these areas, this paper contributes to the broader discourse on effective change management in supply chains, with a particular focus on human factors that drive resistance and engagement.

2. Literature Review

2.1. The Role of Human Factors in Supply Chain Management

Human factors play a crucial role in the management and optimization of supply chains. These factors include individual behaviours, group dynamics, and organisational culture, all of which can significantly influence the success of supply chain initiatives. Effective supply chain management requires understanding and addressing these human elements to facilitate smooth transitions and operational efficiency.

In the context of supply chain change management, human factors can either drive or impede the adoption of new processes and technologies. For instance, individual resistance to change, stemming from fear of the unknown or loss of job security, can create significant barriers (Kotter, 1996). Additionally, organisational culture, which encompasses shared values, beliefs, and practices, can either support or obstruct change efforts (Schein, 2010).

Leadership styles also play a pivotal role in managing human factors in supply chains. Transformational leadership, which emphasises vision, inspiration, and change, has been shown to effectively reduce resistance and increase engagement among employees (Bass & Riggio, 2006). In contrast, transactional leadership, which focuses on routine and structure, may be less effective in dynamic and changing environments.

2.2. Challenges in Supply Chain Change Management

Supply chain change management is fraught with numerous challenges, many of which are rooted in human factors. Resistance to change is a common issue, often driven by fear, uncertainty, and a lack of trust in the change process. Employees may resist changes due to perceived threats to their job security, alterations in their daily routines, or skepticism about the benefits of the change (Hiatt & Creasey, 2012).

Additionally, poor communication and insufficient engagement from leadership can exacerbate resistance. When employees are not adequately informed about the reasons for change, the benefits it will bring, and their role in the process, they are more likely to resist (Kotter, 1996). Moreover, a lack of training and support can leave employees feeling unprepared and overwhelmed by the new demands placed upon them (Cameron & Green, 2012).

Organizational culture also presents a significant challenge. Cultures that are risk-averse or have a history of unsuccessful change initiatives can foster a climate of skepticism and resistance. Conversely, organizations with a culture of continuous improvement and innovation are more likely to embrace change positively (Schein, 2010).

2.3. Strategies for Overcoming Resistance

To overcome resistance and boost engagement, several strategies can be employed. Effective communication is paramount. Leaders must clearly articulate the vision for change, the benefits it will bring, and the specific roles and responsibilities of employees (Hiatt & Creasey, 2012). Regular updates and open forums for discussion can help alleviate fears and build trust.

Engagement strategies such as involving employees in the planning and implementation process can also reduce resistance. When employees feel they have a stake in the change and their input is valued, they are more likely to support the initiative (Cameron & Green, 2012).

Training and development programs are critical in equipping employees with the skills and knowledge needed to adapt to new processes and technologies. Providing ongoing support and resources can help ease the transition and ensure employees feel confident in their new roles (Kotter, 1996).

Leadership approaches also play a crucial role. Transformational leadership, characterized by vision, inspiration, and encouragement, can motivate employees to embrace change. Leaders who demonstrate commitment to the change and lead by example can inspire similar commitment from their teams (Bass & Riggio, 2006).

3. Methodology

3.1. Approach to Literature Selection and Analysis

The methodology for this review paper involves a systematic approach to selecting and analysing relevant literature on human factors in supply chain change management. The process can be divided into the following steps:

Literature Search: The search for relevant literature was conducted using academic databases such as Google Scholar, JSTOR, and ScienceDirect. Keywords used in the search included "human factors," "supply chain change management," "resistance to change," "engagement strategies," and "organisational culture."

Inclusion Criteria: To ensure the relevance and quality of the selected literature, the following inclusion criteria were applied:

3.2. Peer-reviewed journal articles and books.

Publications from the past two decades to capture recent advancements and current practices.

Studies focusing on human factors in the context of supply chain management and change management.

3.3. Exclusion Criteria: The following exclusion criteria were applied to filter out less relevant sources:

Non-peer-reviewed articles, opinion pieces, and editorials.

Studies not directly related to the supply chain or change management.

3.4. Data Extraction and Synthesis

Data from the selected studies were extracted and synthesised to identify common themes, challenges, and strategies related to human factors in supply chain change management. Key findings were summarised and categorised to facilitate discussion and analysis.

3.5. Quality Assessment

The quality of the included studies was assessed based on their methodology, sample size, and the robustness of their findings. Studies with strong empirical evidence and clear methodologies were prioritised.

4. Analysis and Interpretation

The selected literature was analyzed to identify patterns and trends in human factors affecting supply chain change management. This analysis involved comparing different studies, identifying gaps in the existing literature, and interpreting the findings in the context of practical change management.

5. Discussion

5.1. Analysis of Human Factors and Their Impact

Human factors significantly impact the success of supply chain change management initiatives. The literature reveals that individual resistance, often driven by fear of the unknown and loss of job security, is a major barrier to successful change (Kotter, 1996). Resistance can manifest in various forms, including active opposition, passive non-compliance, and reduced productivity (Hiatt & Creasey, 2012).

Organizational culture is another critical factor influencing change management. Cultures that value stability and risk aversion tend to resist change, while those that embrace innovation and continuous improvement are more likely to support change initiatives (Schein, 2010). Leadership styles also play a pivotal role, with transformational leaders being more effective in reducing resistance and fostering engagement compared to transactional leaders (Bass & Riggio, 2006).

To avoid failure, it's crucial to ensure all six elements—Vision, Consensus, Skills, Incentives, Resources, and Action Plan—are fully integrated and actively managed (Lippitt-knoster-model-for-complex-change, 2024, Figure 1). Neglecting any one aspect can lead to resistance or failure; for example, lacking a clear vision can cause confusion, while insufficient resources can lead to frustration. Continuous monitoring and adjustment of these elements enhance the resilience and effectiveness of change initiatives.

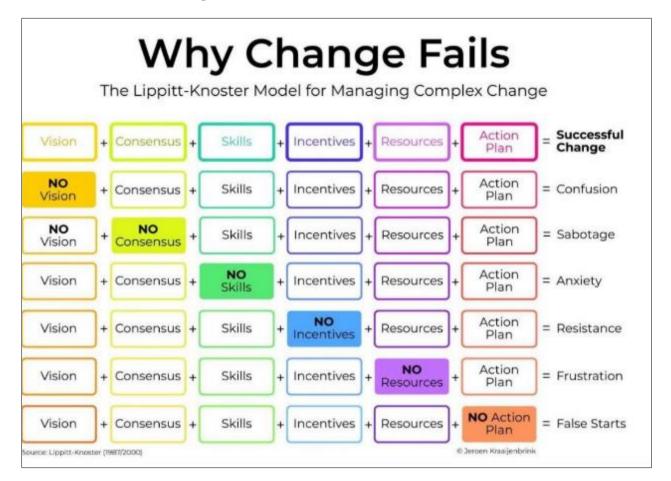


Figure 1 Lippitt-knoster-model-for-complex-change

5.2. Best Practices for Managing Change

Effective communication is consistently highlighted as a best practice for managing change. Clear, transparent, and frequent communication helps to build trust, reduce uncertainty, and align employees with the change objectives (Hiatt & Creasey, 2012). Involving employees in the change process through participatory decision-making and feedback mechanisms also helps to mitigate resistance and increase buy-in (Cameron & Green, 2012).

Training and development programs are crucial for equipping employees with the necessary skills and knowledge to adapt to new processes and technologies. Continuous support and resources further ease the transition and boost employee confidence (Kotter, 1996).

Leadership approaches significantly impact the success of change initiatives. Transformational leadership, characterised by vision, inspiration, and encouragement, motivates employees to embrace change. Leaders who demonstrate commitment and lead by example inspire similar commitment from their teams (Bass & Riggio, 2006).

Comparative analysis of different approaches shows that strategies combining effective communication, employee involvement, training, and transformational leadership are most successful in overcoming resistance and boosting engagement. These strategies create a supportive environment where employees feel valued, informed, and capable of contributing to the change process.

In the change enablement cycle organization needs to go through The Commitment Curve (Figure 2) that illustrates the levels impacted by the stakeholders during the life of the project. The goal of change enablement and business readiness is to help drive stakeholders up this curve.

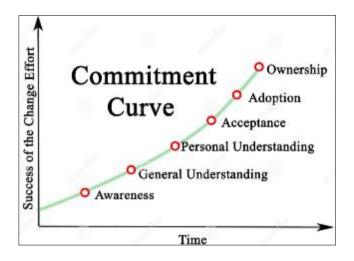


Figure 2 Commitment Curve

The goal of the change management in the Supply chain will be ownership at every layer of the management starting from executive office to next level management up to the shop floor operator. This cascading of involvement will be of paramount importance for Supply chain management where change is not a regular practice.

5.3. Role of the People Manager in the change management process

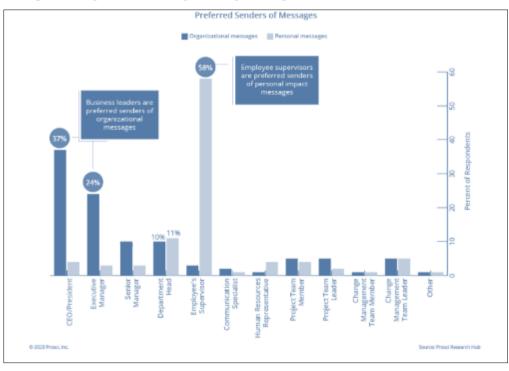


Figure 3 Top contributor of the success of Change

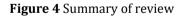
As per Prosci's Best Practices in Change Management benchmarking research 2011 survey, a people manager (Figure 3) is one of the top contributors of the change management success because of the relationship and influence they have on the employees affected by the change. Posci research shows that employees like to get the change message directly from the reporting manager who is well positioned to help employees through their change journey successfully.

6. Summary of Findings

The review identified several key findings:

- **Individual Resistance**: Fear of the unknown, job security concerns, and comfort with the status quo are major drivers of resistance to change (Kotter, 1996).
- **Organisational Culture**: Cultures that value stability and are risk-averse tend to resist change, while those that embrace innovation and continuous improvement support change initiatives (Schein, 2010).
- **Leadership Styles**: Transformational leadership, characterised by vision, inspiration, and encouragement, is more effective in reducing resistance and fostering engagement compared to transactional leadership (Bass & Riggio, 2006).
- **Effective Communication**: Clear, transparent, and frequent communication helps build trust, reduce uncertainty, and align employees with change objectives (Hiatt & Creasey, 2012). But over-communication can kill the spirit of the change and communication should be conducted through multiple channels.
- **Employee Involvement**: Engaging employees in the change process through participatory decision-making and feedback mechanisms reduces resistance and increases buy-in (Cameron & Green, 2012).
- **Training and Development**: Providing training and development programs equips employees with the necessary skills and knowledge to adapt to new processes and technologies, easing the transition and boosting confidence (Kotter, 1996).
- **Identify Fuel & Friction**: Fuel means within the transformation that are likely to be adopted positively and Friction means changes that may be challenging for users to adopt, or initially add frustration. Organisations need to identify employees' enthusiasm for fuel and challenges for the friction and take the right approach accordingly.
- **Cultural Change**: In the supply chain world, a process might be in practice for the last 15,20,25 years and the end user says "We have always done this in this way here". In the world of technology where change is very frequent and exponential, employees' mindset change is very critical for success.





6.1. Implications for Practice

The findings of this review have several practical implications for supply chain managers and practitioners:

- Adopt Transformational Leadership: Leaders should adopt transformational leadership styles to inspire and motivate employees during change initiatives.
- **Enhance Communication**: Establish clear and transparent communication channels to keep employees informed and engaged throughout the change process.
- **Involve Employees**: Actively involve employees in the planning and implementation of changes to foster a sense of ownership and commitment.
- **Invest in Training**: Provide continuous training and development opportunities to ensure employees are wellprepared for new roles and responsibilities.
- **Foster a Supportive Culture**: Cultivate an organisational culture that values innovation, continuous improvement, and adaptability to change.

7. Conclusion

This review paper has explored the critical role of human factors in supply chain change management, highlighting the challenges and strategies for overcoming resistance and boosting engagement. The analysis has shown that human factors, including individual behaviours, organisational culture, and leadership styles, significantly impact the success of change initiatives in supply chains.

Recommendations for Future Research

While this review has provided valuable insights, several areas warrant further investigation:

- **Longitudinal Studies**: Long-term studies on the impact of human factors on supply chain change management could provide deeper insights into the sustained effects of different strategies.
- **Comparative Analysis**: Comparative studies between different industries and regions could highlight context-specific challenges and strategies.
- **Technology Integration**: Research on the integration of emerging technologies, such as artificial intelligence and automation, in change management processes could provide new perspectives on managing human factors.

Compliance with ethical standards

Disclosure of conflict of interest

No conflict of interest to be disclosed.

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