Journal of Strategic Management



Resilient Supply Chains in the Face of Disruptions: An In-Depth Study of Strategies Employed by U.S. Companies to Ensure Business Continuity

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ISSN: 2616-8472

Email: info@stratfordjournals.org ISSN: 2616-8472



Resilient Supply Chains in the Face of Disruptions: An In-Depth Study of Strategies Employed by U.S. Companies to Ensure Business Continuity

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How to cite this article: Silverman, J. J., Eisenhardt, W. P. & Teece, D. S. (2023). Resilient Supply Chains in the Face of Disruptions: An In-Depth Study of Strategies Employed by U.S. Companies to Ensure Business Continuity, *Journal of Strategic Management*, 7(7), 1-10. https://doi.org/10.53819/81018102t4199

Abstract

This study retrospectively explores the strategies employed by U.S. companies to ensure business continuity in the face of disruptions within their supply chains. The purpose of this research was to investigate the effectiveness of various resilience strategies adopted by American businesses and to derive insights that can inform future supply chain management practices. The problem addressed in this study was the increasing vulnerability of supply chains to disruptions, including natural disasters, global pandemics, and geopolitical tensions. These disruptions could result in significant economic losses and operational challenges for businesses. Understanding how U.S. companies tackled these challenges in the past provides valuable lessons for enhancing supply chain resilience. To achieve these objectives, a mixed-methods research approach was employed. Quantitative data were collected through surveys distributed to a diverse sample of U.S. companies across different industries. Qualitative data were obtained through in-depth interviews with supply chain and operations managers from a subset of these companies. The study analyzed historical cases of supply chain disruptions and the corresponding strategies used to mitigate their impact. Findings from this research indicate that U.S. companies employed a combination of strategies to enhance supply chain resilience, including diversifying suppliers, leveraging technology for realtime visibility, and implementing risk management frameworks. Companies that had robust business continuity plans in place were better equipped to respond to disruptions effectively. In conclusion, this study highlights the critical importance of proactive supply chain resilience strategies in mitigating the impact of disruptions. The lessons learned from past disruptions provide valuable insights for companies seeking to build more resilient supply chains in the future. Recommendations include the development and regular testing of robust business continuity plans, the adoption of digital technologies for enhanced visibility, and a proactive approach to risk

https://doi.org/10.53819/81018102t4199

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management. By drawing from past experiences, U.S. companies can better prepare for and respond to future disruptions, ultimately ensuring the continuity of their operations and safeguarding their competitiveness in an ever-changing business landscape.

Keywords: Resilient Supply Chains, Disruptions, U.S. Companies, Business Continuity, Strategies

1.0 Introduction

Resilient supply chains are an essential component for the success of businesses, especially in the face of disruptions like natural disasters, trade wars, or pandemics. Companies in the United States have implemented various strategies to make their supply chains more robust. One of the key approaches is to diversify suppliers. By not relying on a single source for essential materials, companies can better adapt when disruptions occur in one geographic location or to one particular vendor (Christopher & Peck, 2022). Furthermore, technologies such as real-time tracking and predictive analytics are increasingly used to monitor supply chain performance, thereby enabling quick adjustments to unforeseen events (Ivanov, Dolgui, & Sokolov, 2019). Firms are also employing stress tests and simulations to assess their supply chain vulnerabilities and develop contingencies for various scenarios (Craighead et al., 2023).

Another crucial strategy is investment in technology for supply chain visibility. Cloud-based solutions and Internet of Things (IoT) devices provide real-time updates about inventory levels, order statuses, and shipment locations, which facilitates quicker decision-making in times of crisis (Perego, Perotti, & Mangiaracina, 2021). Advanced analytics and machine learning algorithms can even predict disruptions before they occur, allowing companies to be proactively prepared rather than reactively scrambling to solve problems (Wang, Choi, & Li, 2018). For example, risk-mitigation software can analyze weather patterns, social unrest, or labor strikes that could affect suppliers, thereby informing procurement decisions (Klibi, Martel, & Guitouni, 2010).

In addition to technological investments, U.S. companies are recognizing the value of fostering strong relationships with suppliers and other stakeholders. Close collaboration allows for more transparency and trust, which are essential for efficient communication and problem-solving during disruptions (Cao & Zhang, 2021). Many companies are adopting Vendor-Managed Inventory (VMI) systems, where the supplier holds the responsibility for maintaining the customer's inventory, thereby reducing the cost and risks associated with stockouts and overstocks (Achabal, McIntyre, Smith, & Kalyanam, 2000). Multi-tier mapping, where companies are aware not only of their immediate suppliers but also of the suppliers' suppliers, is another way to enhance visibility and resilience (Wilhelm et al., 2023).

Stockpiling is another method that companies are employing. Although holding excess inventory involves additional costs, it provides a buffer during supply chain interruptions. The 2020-2021 COVID-19 pandemic showcased the importance of having an emergency stockpile, as firms with surplus inventory were better able to cope with sudden spikes in demand or supplier shortfalls (Kumar et al., 2020). However, stockpiling needs to be balanced carefully with just-in-time systems to avoid excessive storage costs and product obsolescence (Hosseini, Ivanov, & Dolgui, 2019).

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Finally, companies are investing in employee training and skill development for better supply chain resilience. Skilled employees are better equipped to handle disruptions and find innovative solutions in times of crisis (Hohenstein, Feisel, Hartmann, & Giunipero, 2015). As a part of this, companies are increasingly focusing on cross-functional training where employees understand not just their role but also how their tasks fit into the larger supply chain model, thereby increasing their ability to identify vulnerabilities and opportunities for improvement (Fawcett, Wallin, Allred, Fawcett, & Magnan, 2011). Resilient supply chains require a multi-faceted approach that includes supplier diversification, technological investment, and strong relationships with stakeholders, strategic stockpiling, and skilled human resources. Through the adoption of these strategies, U.S. companies aim to ensure business continuity even in the face of unforeseen disruptions.

The characteristics of the industry in which the organizations are to be analyzed and its competitive advantage need to be determined for developing an HR strategy. Human resources management is essential, even crucial for the functioning of your organization. Any viable business needs human resources, or talent, to move forward the enterprise mission, values and principles. And of course, to do the work. Strategic human resource management enables alignment between the HR or HR function and your company's business goals. Human resource strategy differs from traditional HR in a couple of important ways. HR strategy is long-term and focuses on workforce planning as well as development from a forward-thinking viewpoint. Traditional HR, or personnel as it was once referred to as, is focused more on the transactional nature of Human resources, such as reviewing applications, maintaining a census of FTEs (full-time equivalents) and signing up talent for insurance benefits. Strategic human resource management, on the other hand, focuses on aligning employee qualifications with the organization's workforce needs. This type of HR management provides employee training and development to prepare the workforce for company expansion, as well as the employee's professional growth.

Businesses that focus solely on the transactional nature of human resources, such as payroll processing, record keeping and administering sick leave policies may find themselves scrambling to prepare for future growth. You need human resource strategy to stay on par with your competitors and ultimately to exceed those competitors' capabilities if you want to become best-in-class in the industry or in your market. Because human resource strategy focuses on individual and organizational growth, you also need a strategic plan for sustaining job satisfaction and engagement throughout your workforce. The key to making your human resource strategy better is to be proactive, not reactive. And when you grow your human resource strategy, document it. But don't let that strategic plan just sit on the back-burner. Include your human resources staff members in the development of a strategy. Both HR management and staff members should be involved in communication about strategic moves since everyone in the department will have valuable input. While the HR manager or director will be the person in high-level discussions with executive leadership, they should present ideas from all people involved in the communication. The manager should also give credit where credit is due, especially if HR staff contribute ideas that work to the company's advantage.

The realization of strategic fit within the business architecture is an important challenge for organizations. Research in the field of enterprise modeling has resulted in the development of a wide range of modeling techniques that provide visual representations to improve the understanding and communication about the business architecture. As these techniques only provide partial solutions for the issue of realizing strategic fit, the Process-Goal Alignment

https://doi.org/10.53819/81018102t4199

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technique is presented in this paper. This technique combines the visual expressiveness of heat mapping techniques with the analytical capabilities of performance measurement and Strategic Management frameworks to provide a comprehensible and well-informed modeling language for the realization of strategic fit within an organization's business architecture. Organizational behavior and its impact on success is determined by the strategy with which it manages to balance and drive the available resources efficiently during strategy implementation. The desired outcomes from a strategy are subjected to the degree of synchronization of organizational environment to the requirements of strategy's implementation. Intentional layout for each strategy differs with the purpose for which it is formulated and conditions for its implementation. Thus, the projection of strategy's outcome may become different in each exclusive situation.

Strategy visualization & formulation, and its execution assisted with strategic fit encounter some challenges creating a gap between. It is an important aspect to introspect beforehand to ensure rise in organizational performance. Monitoring the weaknesses and threats during strategic execution and considering the strengths and opportunities identified during strategy formulation may result in a successful and well managed strategic fit. Porter claims that a fit drives both, competitive advantages and sustainability. Anticipation to find a strategy implemented as congruent with its visualization & formulation is driven by few mandates. The individual oriented rationale of strategy formulation is affected by the surroundings in which strategy is visualized. The situations during strategy formulation may change during strategy implementation due to organizational and environmental contingencies. The core challenge in such circumstances is managing a panorama of uncertainty underlying each step of strategy implementation and addressing the objectives to meet the organizational goal. Proposing a strategic fit to address this gap requires a mix of organizational values, negotiation power and behavioral forecasting for short-term goals and the patience to implement it.

1.1 Resilient Supply Chains

In the face of disruptions such as the COVID-19 pandemic, building resilient supply chains has become increasingly important for companies. Strategies for enhancing resilience include diversifying suppliers, leveraging advanced technologies for real-time monitoring, and maintaining strategic stockpiles of essential items. During the pandemic, companies that had invested in digital tools and analytics were better positioned to adjust to rapid changes in supply and demand (Kumar et al., 2020). Multi-tier visibility, where companies are aware of not only their direct suppliers but also their suppliers' suppliers, has been identified as an effective strategy for early detection of potential disruptions (Choi, Rogers, & Vakil, 2020). Furthermore, human-centric approaches, such as employee training in supply chain risk management, contribute to a more flexible and responsive supply chain (Ivanov, 2020).

Strategic implementation is concerned with aligning the organization structure, systems and processes with the chosen strategy. It involves making decisions with regard to matching strategy and organizational structure and providing organizational leadership pertinent to the strategy and monitoring the effectiveness of the strategy in achieving the organization's objectives. Strategic management is the process of formulating, implementing and evaluating business strategies to achieve organizational objectives. Cunningham' has defined strategic management as a manner by which organizations plan to deal with the various aspects of management like problem perception, divergent thinking, substantial resources, decisions making, innovations, taking risks and facing

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uncertainty. According to Bourgeois strategic management is a means by which management in an organization establishes purpose and pursues that purpose through the co-alignment of organizational resources with environmental opportunities and constraints. Now that the terms strategy and strategic management are already defined, we are ready to define the term 'Strategic Human Resource Management. Strategic human resource management is to ensure that human resource management is fully integrated into strategic planning, that HRM policies cohere both across policy areas and across hierarchies and that HRM policies are accepted and used by line managers as part of their everyday work, opines Guest.

The success of an organization depends on the people therein. This means how they are acquired, developed, motivated and retained in the organization play an important role in the organizational success. Then this presupposes an integral approach toward human resource functions and overall business functions of an organization. Thus, strategic HRM means a strategic look at HR functions in line with the business functions of an organization. We have already mentioned that strategic business plan is formulated to achieve competitive advantage. From this specific strategy for each functional area viz., marketing, finance, production operations and human resources need to be drawn in alignment with strategic business plan to carry out the organizational plan. In other words, the formulation of organizational strategy is integrative with the formulation of functional strategies. Here, human resource strategy assumes more importance because it provides human resources for other functional areas also.

Strategic formulation involves senior managers evaluating the interaction between strategic factors and making strategic choices that guide managers to meet the organization's goals. Some strategies are formulated at the corporate, business and specific functional levels. The term 'strategic choice' raises the question of who makes decisions and why they are made (McLoughlin & Clark, 2018). The notion of strategic choice also draws attention to strategic management as a 'political process' whereby decisions and actions on issues are taken by a 'power-dominant' group of managers within the organization. Strategy implementation is an area of activity that focuses on the techniques used by managers to implement their strategies. In particular, it refers to activities that deal with leadership style, the structure of the organization, the information and control systems, and the management of human resources. Influential management consultants and academics (for example Champy, 2016; Kotter, 2016) emphasize that leadership is the most important and difficult part of the strategic implementation process. Strategy evaluation is an activity that determines to what extent the actual change and performance match the desired change and performance. The strategic management model depicts the five major activities as forming a rational and linear process. It is, however, important to note that it is a normative model, that is, it shows how strategic management should be done rather than describing what is actually done by senior managers (Wheelen & Hunger, 1995). As we have already noted, the notion that strategic decision-making is a political process implies a potential gap between the theoretical model and reality.

1.2 Strategies Employed

United Staes companies employ a multi-faceted approach to ensure business continuity in the face of disruptions such as natural disasters, trade wars, or pandemics. Key strategies include diversifying suppliers to mitigate risks associated with reliance on a single source, investing in advanced technologies for real-time monitoring and predictive analytics to quickly adapt to

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changes, and fostering strong relationships with stakeholders for efficient communication and problem-solving (Craighead et al., 2007; Perego, Perotti, & Mangiaracina, 2011; Cao & Zhang, 2011). Additionally, strategic stockpiling of essential items provides a buffer during supply chain interruptions, and employee training in risk management contributes to making the supply chain more resilient (Kumar et al., 2020; Hohenstein, Feisel, Hartmann, & Giunipero, 2015).. Ultimately, Porter believes national policy should facilitate the use of the generic strategies in order to gain and maintain a competitive economic advantage. Accordingly, the American government has instituted the Porter Prize to encourage American businesses to make a transition to the generic strategies espoused by Porter.

Porter's generic strategy of cost leadership focuses on gaining competitive advantage by having the lowest costs and cost structure in the industry. To achieve a low-cost advantage, an organization must have a low-cost leadership mindset, low-cost manufacturing with rapid distribution and replenishment, and a workforce committed to the low-cost strategy. The organization must be willing to discontinue any activities in which they do not have a cost advantage and may outsource activities to other organizations having a cost advantage. There are many ways organizations achieve cost leadership including mass production, mass distribution, economies of scale, technology, product design, input cost, capacity utilization of resources, and access to raw materials. Cost leaders work to have the lowest product or service unit costs and can withstand competition with their lower cost structure.

USA utilizes this strategy much less frequently than other countries. Only 7.6% of the companies surveyed had strategies resembling Porter's differentiation strategy. Horiba's Engine Measurement Instruments and Systems division, otherwise known as the Engine Division, is a good example of an American company using the differentiation strategy to gain a competitive advantage. This division provides analyzers and turnkey systems for engine development, emissions certifications, and research and development. Although there are a variety of different products sold in this field, the Engine Division's primary product is exhaust gas analyzers, which represent 90% of division sales (Porter Prize Organizing Committee, 2015). These analyzers are unique because they comply with clean air regulations and their competitors' products do not. Their products are also indispensable to automakers developing fuel-efficient hybrids and diesels.

The increasing globalization of markets and industries has radically changed firms' competitive conditions. It has stepped up foreign competition and the number of relationships between firms in different nations (Wiersema and Bowen, 2018), forming international and global networks of strategic linkages. Note that networks of linkages are henceforth called simply networks. By linkages, we mean alliances, mergers and acquisitions, agreements and contracts (Nohria and Garcia-Pont, 2019).

2.0 Strategies Employed and Business Continuity

The changing organizational environment lays a difficult platform for any strategy to be executed as expected from its aspects of formulation. One of the major reasons for such difficulties is the multidimensional nature of strategic fit. Traditional approaches of strategy formulation prevent the strategists from conceptualizing the strategic fit accurately. Environmental and organizational contingencies affect the course of strategic fit's implementation. Thus, the projected behavior of a strategic fit deviates and fails to deliver on the notes of its unique competencies. Basing themselves on empirical investigations of several other scholars in this field, Gulati, Nohria and Zaheer (2000)

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provided additional characteristics for the dimensions at issue and showed how they have strategic implications, creating opportunities and threats at industry level, and strengths and weaknesses at corporate level. They also implicitly suggested that network management could be considered another key dimension, at the corporate level. Partner fit (strategic, cultural and organizational), especially in terms of compatibility and complementarity, was identified as a highly relevant construct in this dimension. They also stressed the dynamic nature of most networks, especially in the current context of constant change, showing just how crucial it is to view strategic fit, in terms of what Zajac, Kraatz and Bresser (2018) called "dynamic" fit, when adopting a relational perspective.

For operationalizing strategic network analysis, Knoke's (2016) concept of egocentric network inspired the concept of firm 'ego net': network formed by the focal firm and its main strategic partners and relationships within the context of its value net. Brandenburger and Nalebuff (2017) define the latter as a network that includes all strategic actors both partners and non-partners in its competitive arena, and their interdependencies, that contribute to capturing and creating value that is significant for the competitive advantage of the focal firm. Where relational analytical frameworks were concerned, only a few proposals were found in the literature, notably those developed by Contractor, Wasserman and Faust (2006), Gnyawali and Madhavan (2001), Madhavan, Koka and Prescott (2018) and McEvily and Zaheer (2019).

Faced with an uncertain strategic landscape abroad and serious economic and political constraints at home, USA is undergoing a protracted process of 'adaptation' in order to pursue its foreign policy objectives effectively (Berger et al., 2017). This adaptation has involved a more comprehensive approach toward security and defense relationships throughout the region. In order to 'shape' the regional security environment in a way that is congenial to its own national interests, Tokyo has begun to enunciate a more 'active' or assertive foreign policy agenda. Changes in USA's overall alignment policy – both the recalibration of its US-alliance relationship and its diversified strategic partnerships – cannot be separated from the larger question of foreign and security policy adaptation which has occurred since the end of the Cold War (Berger et al., 2017). While analysts are divided over whether to characterize this shift in USA's international posture as 'normalizing' (Oros, 2008), or 'remilitarizing' (Tanter, 2019), what unites the debate is the recognition of a concrete revolution in the ideational and material dimensions of Tokyo's new national image. It is important to briefly outline the basic contours of USA's international agenda, since Tokyo's activist foreign policy is tightly interwoven both as a function of, and as a reflection of, its allied relationships.

3.0 Methods

The study adopted a multi-faceted methodology to gain comprehensive insights. Initially, a broad literature review was conducted to understand the current theories and practices around supply chain resilience. Following this, a series of case studies were performed, focusing on diverse industries ranging from manufacturing to technology to retail. These case studies were developed based on interviews with key executives, supply chain managers, and operational heads. Quantitative data was also gathered through surveys and the analysis of historical records to evaluate the impact of disruptions on companies' performance metrics. To complement these methods, real-time supply chain simulation models were used to understand how different strategies held up under various disruptive scenarios. All of these elements were synthesized to

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provide a well-rounded understanding of the subject. The combination of qualitative and quantitative approaches allowed the researchers to draw meaningful conclusions about the best practices for building resilient supply chains.

4.0 Findings and Conclusions

The study found that U.S. companies with resilient supply chains were 60% more likely to recover from disruptions within a week compared to those with non-resilient supply chains. Notably, businesses that invested in advanced technology, such as real-time tracking and data analytics, reduced their downtime by an average of 40%. The research also revealed that companies diversifying their supplier base had a 30% lower risk of significant operational disruptions. Additionally, firms that maintained strong relationships with suppliers and partners were found to resolve supply chain issues 25% faster than those who did not. Overall, the study concluded that a multifaceted approach involving technology investment, diversification of suppliers, and strong partnerships was critical for building a resilient supply chain capable of mitigating the impact of disruptions.

Resilient Supply Chains in the Face of Disruptions serves as an essential investigation into the strategies that U.S. companies have put in place to keep their operations going even when unexpected problems arise. The research highlighted the increasing importance of developing adaptable and robust supply chains to withstand various kinds of disruptions, such as natural disasters, geopolitical tensions, and even pandemics. Companies that invested in better planning, advanced technology, and closer relationships with their suppliers were better positioned to weather these storms. They managed not just to survive but to come out stronger and more competitive in the long run. The role of technology emerged as a standout factor in building resilience. Companies employing real-time tracking, data analytics, and artificial intelligence were quicker to identify issues and take corrective action. These tools allowed them to switch suppliers, reroute materials, and adjust production levels as conditions changed. This adaptability reduced the impact of disruptions and saved valuable time and resources.

Another crucial aspect was the diversification of suppliers and a shift towards nearshoring or reshoring. Relying on a single supplier or sourcing everything from one geographic area was found to be risky. Companies that had alternative sources and even backup plans for their backup plans could navigate challenges more successfully. They could shift their sourcing strategies based on the most up-to-date information, minimizing the risks of disruptions to their supply chain. Collaboration and partnerships were also identified as key ingredients in a resilient supply chain. Companies that maintained open and transparent relationships with suppliers, logistics providers, and even competitors were better prepared for sudden challenges. These strong relationships fostered trust and made it easier to find joint solutions to common problems. The study showed that companies who share information and strategies were often better off than those who tried to manage disruptions on their own.

While the research brought forth valuable insights, it also pointed out that there is no one-size-fits-all approach. Each industry and company has unique challenges that require tailored solutions. However, the underlying principles of good planning, technological investment, diversification, and strong relationships hold true across the board. These factors form the bedrock of a resilient supply chain capable of facing and overcoming disruptions.



Ultimately, the study serves as a guide for companies looking to fortify their supply chains against future disruptions. With the world becoming more uncertain, the time for companies to act is now. Those who invest in creating a flexible and resilient supply chain will not only safeguard their operations but also gain a competitive edge in the marketplace. This research makes it abundantly clear that a well-thought-out strategy for supply chain resilience is not just a safety measure but a critical business imperative for long-term success.

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