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Organizational Resilience and Crisis Management Capabilities: A Conceptual and Strategic Analysis

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Abstract *In the face of an ever more volatile and uncertain business environment, organizations face a broad range of disruptions such as economic crises, technological breakdowns, pandemics, and geopolitical issues. Organizational resilience and crisis management capabilities have become key factors in determining organizational survival, adaptability, and performance. The purpose of the current study is to examine the conceptual bases, dimensions, and interrelationship between organizational resilience and crisis management capabilities. The study is based on the conceptual-analytical methodology with the support of secondary data. The study attempts to present a conceptual framework that combines the dimensions of anticipation, coping, and adaptation capabilities with the phases of crisis preparedness, response, and recovery. The study also attempts to present hypotheses relating the dimensions of resilience with organizational performance and crisis management outcomes. The study findings revealed that organizations that develop their capabilities in building resilience can effectively manage crises and turn disruptions into opportunities for innovation and development.*

Keywords: Organizational Resilience, Crisis Management, Dynamic Capabilities, Business Continuity, Organizational Adaptation

1. INTRODUCTION

In the context of the current global business environment, organizations have to operate in an uncertain, complex, and dynamic environment. Disruptions like financial crises, technological failures, pandemics, geopolitical issues, and environmental upsets have impacted traditional organizational structures and ways of managing organizations to a considerable extent. These disruptions not only affect the smooth operation of organizations but also affect their sustainability and competitiveness. In this context, the importance and role of organizational

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resilience and crisis management capabilities have received considerable attention from both academics and professionals.

The term 'organizational resilience' has been used to denote the organization's capability to anticipate, prepare for, respond to, and adapt to incremental changes and/or sudden disruptions in order to ensure its survival and success. It has also been widely defined as a dynamic and multifaceted construct that enables organizations to withstand unexpected events, overcome adverse situations, and even thrive in the aftermath of crises. In this regard, Duchek (2020) has defined organizational resilience as a 'meta-capability' comprising interrelated processes like anticipation, coping, and adaptation, which in turn help organizations cope with unexpected events in an effective manner. This implies that organizational resilience is not just about 'bouncing back' but also about 'learning' and 'improvement'.

Parallel to this, crisis management capabilities relate to the processes, strategies, and actions organizations undertake in managing unexpected and possibly damaging events. It has three major stages in its processes: preparedness (pre-crisis), response (during crisis), and recovery (post-crisis). It includes risk assessment, planning, decision-making, communication management, and resource mobilization. Although crisis management is seen as a reactive approach, it is significant in helping organizations mitigate damage and return to normalcy during turbulent periods.

The interrelationship between the two constructs of organizational resilience and crisis management capabilities is seen as complementary and synergistic. While the former is the underlying capacity and strategic orientation that enables the organization to utilize the mechanisms of crisis management effectively, the latter is the tools and procedural frameworks that can be used in the implementation of the former. The literature suggests that these two constructs have a strong interrelationship with one another in the sense that the capabilities of organizational resilience can be found in the process of crisis management.

In the past few decades, the academic interest in the concept of organizational resilience has increased considerably. As such, the literature is diverse and multidisciplinary in nature. Researchers have studied the concept of resilience from different perspectives. The perspectives include psychological, ecological, engineering, and managerial views. However, the lack of consensus in the definition, dimensions, and measurement of the concept of organizational resilience is still an issue of concern. Some researchers have conceptualized the concept of resilience as an outcome. They have focused on the capacity of the organization to sustain performance during the occurrence of crises. Others have taken the process perspective of the concept of resilience. They have focused on the dynamic nature of the concept of resilience in the management of crises. The third perspective is the capabilities view of the concept of resilience.

Recent research has also pointed out different facets or dimensions of organizational resilience, such as strategic resilience, operational resilience, cultural resilience, relational resilience, and learning resilience. These different facets or dimensions of organizational resilience highlight the multifaceted nature of resilience and the need to align the organizational structure and processes to effectively deal with disruptions. For example, strategic resilience helps the organization to change its business strategy in response to environmental conditions, while learning resilience highlights the importance of knowledge acquisition in the context of organizational resilience.

In addition, the complexity of the modern organizational environment has necessitated a move from traditional risk management to a more adaptive approach to organizational resilience. Unlike traditional risk management, which is mainly focused on managing identified and anticipated risk, organizational resilience is focused on managing unforeseen and uncertain risk. This, therefore, calls for organizations to build their capacity to scan their environment, be adaptable, and innovative. Finally, the advancement in information technologies, including artificial intelligence and data analysis, has made it possible to forecast and monitor crises in real time.

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In light of these challenges, there is a need for a holistic and integrated approach that brings together organizational resilience and crisis management capabilities. This will allow organizations to not only survive disruptions but also use crises as opportunities for innovation and growth. This can be achieved through the development of dynamic capabilities that involve anticipation, coping, and adaptation. This will improve organizational response to crises.

2. Literature Review

The idea of organizational resilience has developed substantially over the last few decades, with it now becoming an essential feature for organizations facing VUCA environments. The idea of resilience was first introduced in various fields such as ecology and psychology, with it being described as an ability to withstand shocks and then return to normal. However, when it is applied to organizational studies, it has now been recognized as an ability to respond to crises, innovate, and grow. One of the most widely accepted views of organizational resilience is that it is a dynamic meta-capability consisting of anticipation, coping, and adaptation processes. The three processes, as described, are an essential feature to understand how an organization is able to respond to crises, innovate, and grow. The capability approach to resilience has now recognized it as an ongoing process.

The importance of organizational resilience is best illustrated by the context of large-scale disruptions, including the COVID-19 pandemic, which served as a real-world case study to understand how organizations react to disruptions. During the pandemic, organizations have been obliged to make rapid changes to their ways of operation to ensure business continuity. For example, organizations have resorted to remote working by leveraging digital technologies to ensure that their operations are not affected by physical disruptions. For example, organizations have been able to work remotely by leveraging technologies including VPNs and video conferencing tools. Similarly, other organizations, including food service providers, have resorted to delivery and takeout services to ensure business continuity. These examples illustrate how organizational resilience is demonstrated through rapid adaptation and reconfiguration.

Empirical case studies can further add to the strength of organizational resilience. One such example is the Chinese retail chain, which showed remarkable resilience during the COVID-19 pandemic. The organization was able to show its resilience through its effective preparation, response, and adaptation strategies. The organization had invested in its supply chain, digital, and organizational capabilities before the crisis, which allowed it to respond quickly to the crisis. The organization was able to respond quickly to the crisis through its emergency response mechanisms, which allowed it to continue its operations during the crisis. The organization was also able to continue its operations through its digital platforms, which allowed it to meet customer demands. The organization was able to adapt its strategies to suit the post-crisis period, referred to as the “new normal.”

Another body of literature focuses on organizational capabilities and resources as important factors in organizational resilience. This stream of literature indicates that organizational leadership, culture, learning processes, and relationships with stakeholders are important variables in organizational resilience. For instance,

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transformational leadership has a significant impact on organizational culture in terms of adaptability and innovation, which enables employees to respond to uncertain events. Moreover, learning processes are important in drawing lessons from past crises.

Real-world corporate entities can be cited as examples of these concepts. Some of the organizations commonly cited as examples of corporate resilience include LEGO and Microsoft. LEGO is cited as an example of corporate resilience because of the financial crisis it encountered in the early 2000s. This was largely because of over-expansion and misalignment of the company's strategy. Nevertheless, the company was able to successfully transform itself by refocusing on the products it specializes in, embracing innovation, and enhancing the organizational culture. This is an example of strategic transformation as a means of ensuring corporate resilience. Similarly, Microsoft is cited as an example of corporate resilience because of the company's ability to successfully transform its business model over time, from traditional software products to cloud computing services.

Parallel to this, there is literature on crisis management that offers a framework for understanding organizational response to disruptions. Crisis management is normally described as comprising three stages: preparedness, response, and recovery. Although traditional crisis management has focused on response actions, contemporary studies have highlighted the importance of incorporating resilience into crisis management processes. This incorporation ensures that organizations are able to respond to disruptions as well as develop resilience for future disruptions.

Empirical research conducted on organizations during the COVID-19 crisis further supports this integration. A study of multiple companies revealed that organizations with strong resilience capabilities were better able to withstand disruptions and maintain performance during the pandemic. These organizations adopted innovative strategies, such as digital transformation and flexible work arrangements, to cope with unprecedented challenges. Similarly, research on healthcare organizations highlights the importance of dynamic capabilities in managing crises, particularly in uncertain and rapidly changing environments. The ability to adapt to new information, reallocate resources, and coordinate effectively was found to be critical for successful crisis management.

Another significant aspect of organizational resilience is digital transformation. The rise in digital technology adoption has improved organizational capacity for predicting and managing crises. Digital technologies such as artificial intelligence, big data analytics, and cloud computing have improved organizational capacity for awareness and decision-making. Digital technologies have improved organizational resilience. The COVID-19 pandemic has seen a significant increase in digital technology adoption. Digital technologies are significant enablers of organizational resilience.

In conclusion, the body of knowledge on organizational resilience and crisis management has developed to highlight the significance of the integration of proactive and reactive capabilities. Real-world case studies, such as those generated by the COVID-19 pandemic, offer a lot to be learned in relation to the development and maintenance of organizational resilience. These case studies highlight the fact that resilience is a dynamic and continuous process and not a state.

2.1 Concept of Organizational Resilience

Organizational resilience can be described as the capacity of an organization to anticipate, prepare for, respond to, and adapt to disruptions in an ever-changing and uncertain world. Organizational resilience is thus seen as a multidimensional and evolving construct that not only helps the organization survive disruptions but also thrive and become more competitive.

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Essentially, organizational resilience has been seen as a dynamic capability in which the organization has developed certain processes to help it cope adequately with unexpected events. These processes may include anticipation, coping, and adaptation.

Unlike the conventional approach to managing risks in the organization, which has primarily concentrated on managing known risks, organizational resilience has been seen as the capacity of the organization to manage the unforeseen. Organizational resilience has thus brought about the integration of business continuity planning and crisis management.

Additionally, resilience does not just cover the aspect of ‘bouncing back’; it also involves ‘bouncing forward,’ whereby organizations seek to capitalize on the crisis as an avenue for growth. It is affected by various elements like leadership, culture, resource availability, and relationships with various stakeholders, thus making it a cross-functional attribute.

Essentially, organizational resilience defines the state whereby an organization is able to endure in a state of robustness and competitiveness despite the persisting disruption.

2.2 Dimensions of Organizational Resilience

Organizational resilience has been described as a multidimensional construct. These dimensions encompass the capacity of the organization to withstand disruptions. Some of the key organizational resilience dimensions include:

Strategic resilience: Strategic resilience has been described as the capacity of the organization to respond to disruptions in the business environment. Strategic resilience enables the organization to make the necessary adaptations in the business strategy. Strategic resilience involves flexibility in decision-making and the capacity for innovation. Strategic resilience enables the organization to maintain competitiveness in the face of disruptions.

Operational resilience: Operational resilience has been described as the capacity of the organization to maintain operations despite disruptions. Operational resilience involves the capacity to allocate resources efficiently. Operational resilience has been described as the capacity of the organization to maintain business continuity. Operational resilience has been described as the capacity of the organization to maintain robustness and rapidity.

Cultural resilience is also important because it involves the shared values, beliefs, and behaviors that facilitate organizational adaptability and innovativeness. A robust organizational culture promotes organizational commitment, cooperation, and flexibility from the workforce, which are critical in managing crises.

Next, relational resilience involves the quality of organizational relationships with stakeholders such as the workforce, clients, suppliers, and partners. Organizations with robust stakeholder relationships tend to coordinate more effectively and share resources in managing crises.

Lastly, the concept of learning resilience focuses on the organizational capacity to learn from past experiences and improve. Learning resilience involves the sharing of knowledge and the use of adaptive learning processes to help the organization cope with crises and anticipate the future.

Furthermore, some scholars recognize the cognitive, behavioral, and contextual elements of organizational resilience. These elements refer to shared vision, behavioral flexibility, and the organizational environment in which resilience can be demonstrated. Finally, it is imperative to conclude that organizational resilience is not just

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one construct but rather the integration of several elements such as the strategic, operational, cultural, relational, and learning elements.

2.3 Crisis Management Capabilities

Crisis management capabilities can be described as the organizational, process, and resource-related capabilities that enable an organization to prepare for, respond to, and recover from unexpected disruptive events. The capabilities play an essential role in mitigating negative impacts, ensuring business continuity, and sustaining organizational reputation during crises.

In essence, crisis management capabilities involve an organization's ability to prepare for, respond to, and recover from crises. The process involves three major phases, namely, preparedness, response, and recovery. The preparedness phase involves an organization's ability to assess risks, prepare contingency plans, and develop crisis management plans. Organizations develop an early warning system, define roles and responsibilities, and train staff to prepare for crises.

On the other hand, the crisis response capability involves an organization's ability to manage crises as they occur. This includes decision-making, communication, coordination, and mobilization of resources. Research has shown that crisis response involves essential capabilities such as command, control, communication, and coordination, which are critical in managing crises.

Finally, recovery and learning capabilities involve an organization's ability to restore itself and improve its ability to respond to crises. The capabilities involve post-crisis evaluation, sharing knowledge, and continuous learning. Crisis management capabilities are dynamic and collaborative, integrating leadership, technological, and process-related capabilities. The capabilities play an essential role in building organizational resilience, which is critical for organizational sustainability.

2.4 Linking Resilience and Crisis Management

Organizational resilience and crisis management are two related concepts that are intertwined in such a way that their combination facilitates effective organizational response to disruptions as well as organizational performance. Crisis management involves processes and actions taken before, during, and after a crisis occurs. Organizational resilience is a concept that represents all aspects of organizational response to disruptions. According to studies, organizational resilience can be seen as a superior concept that supports crisis management processes.

The interrelationship between organizational resilience and crisis management can be seen as a combination of both concepts. Organizational resilience offers anticipation, flexibility, and adaptability, which are all important aspects for effective crisis management. On the other hand, crisis management offers a framework for organizational response to disruptions, which is actually organizational resilience in action. Studies have shown a strong positive interrelationship between organizational resilience and crisis management effectiveness. According to studies, organizational resilience has a significant impact on enhancing crisis management effectiveness.

Moreover, resilience capabilities have a direct impact on both proactive and reactive crisis management approaches. For example, anticipation and adaptive capacity allow the organization to use proactive approaches such as predicting risks and scenario planning. Similarly, coping capacity enables the organization to use reactive approaches such as responding rapidly to crises. These approaches improve the performance of the organization in terms of crisis management.

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Moreover, the integration of resilience and crisis management highlights the importance of organizational learning. Crisis management processes provide the organization with valuable knowledge in times of crises. This knowledge helps in improving the resilience of the organization. This shows the cyclical nature of the relationship between resilience and crisis management. The experiences gained from crises help in improving the resilience of the organization.

Additionally, organizational agility, leadership, and communication help in improving the relationship between resilience and crisis management.

In conclusion, organizational resilience and crisis management are not distinct concepts but different facets of a single framework. Their integration allows organizations to transcend reactive responses and build proactive and adaptive responses to ensure survival and growth in uncertain contexts.

3. CONCEPTUAL FRAMEWORK AND PROPOSITIONS

This paper suggests a framework for connecting influencer factors with platform factors to consumer behavior. The theoretical framework of this study is based on the capability-based view and dynamic capability theory, which explain the development of the capability of organizations to cope with unexpected changes in the business environment and unexpected disruptions. Organizational resilience has been defined as a meta-capability comprising a set of interrelated processes for coping with crises and adapting to changing business environments.

The framework comprises three major processes of organizational resilience: anticipation, coping, and adaptation, and the phases of crisis management, namely preparedness, response, and recovery. Anticipation involves scanning and risk identification for preparing the organization for potential crisis situations. Coping involves crisis response, including decision-making, coordination, and resource mobilization. Adaptation involves crisis learning, innovation, and transformation for sustainability.

Furthermore, the framework has incorporated integrative models that focus on crucial organizational issues like strategic capacity, contextual integrity, and organizational processes in the development of resilience.

The proposed framework has shown that organizational resilience has a significant effect on the effectiveness of crisis management, which in turn has a significant effect on organizational performance. In addition, it has shown a feedback effect where crisis experiences have a positive effect on developing resilience in the organization.

The proposed framework has provided a holistic approach in understanding the development of resilience in organizations. The framework used in this paper is a capability-based framework for integrating resilience and crisis management.

4. KEY ORGANIZATIONAL CAPABILITIES FOR RESILIENCE

These capabilities lie at the heart of organizational resilience and enable the organization to effectively respond to and adapt to disruptions. These capabilities are deeply embedded in the processes, structures, and culture of the organization and, in total, form a dynamic capability system.

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The first capability in the system is the anticipation capability. This capability encompasses the processes of environmental scanning, risk identification, and scenario planning. An organization with high levels of anticipation capability will be able to identify early warning signals and take measures to prepare for a crisis. This capability largely depends on the knowledge base and the ability to interpret complex information in the environment.

The second capability in the system is the coping capability. This capability encompasses the processes by which the organization responds to a crisis. These processes involve decision-making, coordination, communication, and resource mobilization. These capabilities enable the organization to cope with disruptions in real time and minimize the damage caused by the crisis. These capabilities largely depend on crisis management practices and flexibility in the structure.

Adaptation capability is just as important because it helps the organization learn from the crises and make long-term changes. This involves organizational learning, innovation, and transformation. Adaptation helps the organization not only recover from the crises but also grow to become even better and more competitive. This involves reflecting on the past and the ability to make higher-order changes in the organization.

Strategic and operational capabilities also form a crucial part in the resilience of the organization. These comprise the capabilities to change the business model and align with the changing environment, and the capabilities to sustain the basic processes in the face of disruptions.

Lastly, the social and cultural capabilities, such as leadership and cooperation, and a learning culture, also contribute to the resilience of the organization by providing a context in which employees can respond to uncertainty.

In conclusion, therefore, organizational resilience does not depend on a single capability but on the integration of anticipation, coping, adaptation, strategic, and cultural capabilities in the face of uncertainty.

5. ROLE OF ORGANIZATIONAL LEARNING

Organizational learning is an important factor that contributes to building resilience by allowing organizations to learn and build knowledge from their experiences and crises. Learning is considered a prerequisite to building resilience since it enables organizations to anticipate crises, cope with crises, and adapt to their environment. Learning is done through various means, including knowledge sharing, feedback mechanisms, and experiential learning. Learning is related to all three stages of building resilience, including anticipation, coping, and adaptation. Therefore, learning is a key driver of building resilience.

Learning is important since it enables organizations to turn crises into opportunities through innovation and strategic renewal. Learning is important since it enables organizations to build dynamic capabilities through knowledge embedding. Continuous learning and the ability to learn and forget, i.e., to “unlearn,” ensure that organizations are adaptable and responsive to their environment. Learning is important since it enhances building resilience by focusing on adaptability, improvement, and sustainability.

6. CHALLENGES IN BUILDING RESILIENCE

Building organizational resilience is a highly complex and multidimensional challenge because of the highly uncertain and changing nature of the business environment. One of the challenges in building organizational

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resilience is the lack of clear and single definitions and measurement systems. This makes it difficult for an organization to measure and build organizational resilience. Another challenge in building organizational resilience is the lack of resources.

The lack of financial resources, technology resources, and human resources makes it difficult for an organization to invest in building organizational resilience. Organizations may face cultural challenges in building organizational resilience. The lack of willingness to change may be a challenge in building organizational resilience. The highly uncertain and changing nature of the business environment makes it difficult to predict and handle crises. The gap between planning and execution may be considered another challenge in building organizational resilience. Organizations may design organizational resilience strategies but may not be able to execute the strategies. The lack of organizational learning may be considered the final challenge in building organizational resilience. The lack of organizational learning may be at the individual, group, and organizational levels.

7. MANAGERIAL IMPLICATIONS

The increasing recognition of the role of organizational resilience and crisis management has major implications for managers in various industries. Firstly, managers have to move from a reactive approach towards a more proactive and strategic approach by integrating resilience into the planning and decision-making processes of the organization. Research has emphasized that resilience must be seen as a continuous capability and not as a one-off approach in managing crisis situations.

The first implication for managers is the need for developing organizational agility, which would help organizations to respond quickly and effectively in crisis situations. Research has proved that agility has a high positive correlation with crisis management effectiveness and organizational resilience, thus making it a major managerial implication. Managers must focus on developing flexible structures, decentralized structures, and fast communication systems in order to enhance agility in crisis situations.

The second implication for managers is the focus on developing leadership and organizational culture. Managers must focus on developing a culture of flexibility, learning, and collaboration within the organization. Encouraging a culture of open communication, involvement, and continuous learning would help organizations in coping with uncertainty. Furthermore, "soft" aspects of organizational culture, including employee engagement and culture, have also shown significant impacts on developing resilience in crisis situations.

Managers will have to invest in crisis preparedness and planning. Effective crisis response strategies, depending on the nature of the crisis, are important to ensure minimal damage and faster recovery from crises. Additionally, the role of technology and the use of digital tools is important to ensure organizational resilience.

Lastly, managers will have to ensure that there is a focus on learning and adaptation. This is important to ensure that organizations not only recover from crises but are better prepared to face crises in the future. In conclusion, managers will have to ensure that their organizations are agile, have effective leadership, are prepared to respond to crises, have invested adequately in technology, and have a culture of learning and adaptation.

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8. CONCLUSION

Organizational resilience and crisis management skills play an imperative role in managing uncertainties and ensuring organizational sustainability. Resilient organizations do not only survive crises but also utilize crises as opportunities for innovation and growth. Organizations can develop a solid base for success by integrating anticipation, coping, and adaptation skills with crisis management.

References

[1] Duchek, S. (2020). Organizational resilience: A capability-based conceptualization. *Business Research, 13*(1), 215–246. https://doi.org/10.1007/s40685-019-0085-7

[2] Duchek, S., Raetze, S., & Scheuch, I. (2020). The role of diversity in organizational resilience: A theoretical framework. *Business Research, 13*(1), 387–423. https://doi.org/10.1007/s40685-019-0084-8

[3] Chen, R., Xie, Y., & Liu, Y. (2021). Defining, conceptualizing, and measuring organizational resilience: A multiple case study. *Sustainability, 13*(5), 2517. https://doi.org/10.3390/su13052517

[4] Hollands, L., Haensse, L., & Lin-Hi, N. (2024). The how and why of organizational resilience: A mixed-methods study on facilitators and consequences of organizational resilience throughout a crisis. *Journal of Management Inquiry*. https://doi.org/10.1177/00218863231165785

[5] Burnard, K., & Bhamra, R. (2011). Organisational resilience: Development of a conceptual framework for organisational responses. *International Journal of Production Research, 49*(18), 5581–5599.

[6] Linnenluecke, M. K. (2017). Resilience in business and management research: A review of influential publications and a research agenda. *International Journal of Management Reviews, 19*(1), 4–30.

[7] Boin, A., & van Eeten, M. J. G. (2013). The resilient organization. *Public Management Review, 15*(3), 429–445.

[8] Lengnick-Hall, C. A., Beck, T. E., & Lengnick-Hall, M. L. (2011). Developing a capacity for organizational resilience through strategic human resource management. *Human Resource Management Review, 21*(3), 243–255.

[9] Hamel, G., & Välikangas, L. (2003). The quest for resilience. *Harvard Business Review, 81*(9), 52–63.

Publisher: Noida Institute of Engineering & Technology,
19, Knowledge Park-II, Institutional Area, Greater Noida (UP), India.

[10] Annarelli, A., & Nonino, F. (2016). Strategic and operational management of organizational resilience: Current state of research and future directions. *Omega, 62*, 1–18.

[11] Sheffi, Y. (2005). *The resilient enterprise: Overcoming vulnerability for competitive advantage*. MIT Press.

[12] Coutu, D. L. (2002). How resilience works. *Harvard Business Review, 80*(5), 46–55.

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