Global Journal of Business, Commerce, Economics and Management Research
Vol. 01, Issue 01 2026
ISSN:
DOI:

Agile Resilience: Redefining Crisis Management for Global Business Sustainability

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Abstract

Objective: This study aims to present Agile Resilience as a paradigm shift for crisis management in the context of the VUCA global business environment that goes beyond the traditional crisis management approach to creating a more proactive capability for anticipating disruption, rapid response and resilience.

Methodology: The study uses a conceptual and integrative literature review method and incorporates the results of the study from other disciplines namely strategic management, organizational resilience, and sustainability studies, with thematic synthesis and illustrative empirical evidence from recent global crises including pandemics, disruption in supply chains and geopolitical conflicts.

Findings: Their analysis shows that the Agile Resilience framework, which is based on three pillars: strategic foresight, adaptive governance and sustainable value creation, can help organizations become more resilient, better protect the value of their stakeholders and reach higher levels of long-term competitiveness through the digital transformation, cooperation with stakeholders and scenario planning, and continuous learning.

Conclusion: The research provides an integrated framework that connects crisis management with sustainability needs and offers practical suggestions for leaders to foster resilient cultures and ethical decision-making. In the end, Agile Resilience shifts crisis management from a one-off solution to a long-term business sustainability solution for business in the global market.

Keywords: Agile Resilience, Crisis Management, Business Sustainability, Organizational Agility, VUCA Environment

Introduction

Businesses are operating in a VUCA world, one that's volatile, uncertain, complex and ambiguous that is becoming even tougher in today's hyper connected global economy. Geopolitical uncertainty, climate change, epidemics, technological disruptions and supply chain disruptions have become common occurrences and pose risks to the survival and sustainability of organizations[1]. These issues call for a root-and-branch change in the way businesses are prepared for and dealt with in times of crisis.

Past crisis management strategies were mostly ad hoc, and have failed to meet the rapid pace and magnitude of today's crisis events[2]. There are still many organizations that have static contingency plans that do not encourage adaptability or incorporate a more holistic sustainability agenda[3]. This means that many companies find themselves in a long recovery, with the risk of tarnished reputation and reduced value to stakeholders after significant crises.

This is a better need for a more dynamic and forward paradigm. Agile Resilience becomes a holistic approach to redefine the crisis management, combining agile organization principles with the concepts of resilience and sustainability. It turns crisis response from a "defensive must" into a "defensive opportunity" for growth and competitive advantage[3].

Agile Resilience places a strong focus on the proactive measures required to meet potential challenges with flexibility and resilience that will enable the organization to come out stronger[4]. The framework combines agile decision making, digital technologies, inter-functional interactions and learning loops. Thus, it empowers enterprises throughout the world to not only survive the shocks but also to incorporate recovery processes with sustainable development goals[4].

Agile Resilience is fundamentally based on three key principles: strategic foresight, adaptive governance, and sustainable value creation. The strategic foresight includes scenario planning and early-warning systems, and the adaptive governance includes flexible structures and empowered leadership[5]. Sustainable value creation connects crisis management with socially responsible and ethical practices.

This approach has been reinforced by the relevance of the current events and crises in the world, such as COVID-19, geopolitical conflicts, and climate-related disasters[6]. Those who embraced agility and resilience showed that they had a much higher level of operational continuity, innovation and stakeholder confidence than those that took a more traditional approach[7].

This study adds to the academic field and management practice the integrated model of Agile Resilience. It covers theoretical aspects of strategic management and organizational behavior and sustainability studies, and provides concrete solutions to be applied to various industries.

The rest of this paper presents a literature review of relevant work, a detailed description of the Agile Resilience framework, empirical findings, and some practical advice for world-class business leaders who want to excel during times of uncertainty.

Review Of Literature

Acomprehensive theoretical perspective on the role of information technologies in crises, developing a framework of IT-enabled agile crisis management with four processual dimensions short-term sensing, short-term responding, long-term sensing, and long-term responding while proposing specific roles for different IT categories based on each dimension’s demands; they apply this to natural disasters and epidemics [10].

Building on leadership aspects explore agile leadership as a critical driver of organizational resilience during crises, proposing a strategic framework that guides organizations through disruption while sustaining performance and promoting innovation, and emphasize leadership development programs fostering agility at all levels [11].

Similarly, the intertwined roles of agile leadership and strategic resilience as enablers of preparedness amid disruptive innovation and the future of work, revealing how agile leaders promote organizational learning, psychological safety, flexible decision-making, and innovation orientation as key components of resilience [12].

The digital transformation of crisis management, stressing that cross-functional visibility breaks departmental silos for holistic responses, with emerging technologies such as AI-driven scenario modeling, automated resource distribution, and immersive training enabling decisive advantages in resilience despite implementation challenges[13].

The empirical framework rooted in Transformative Service Research and dynamic capabilities, focusing on co-creation of service ecosystem well-being and resilience through responses including retrenchment and balancing supply-demand, service re-design, imposed innovations, digital servitization, and rethinking business models, supported by strategic flexibility, market orientation, customer centricity, transformational leadership, and technological capabilities[14].

The evolution from Agile to AI-Agile project management, showing how AI enhances decision-making, risk forecasting, and real-time resource allocation while redefining the project manager's role in balancing human creativity and machine intelligence amid uncertainty[15].

Finally, "agilience" as a conceptual construct bridging agility (rapid adaptation) and resilience (sustained functioning, recovery, and learning) under uncertainty, outlining its features, boundaries, and relevance especially in healthcare safety management[16].

Statement Of The Problem

Facing the ever-changing global business landscape filled with crises, like pandemics, geopolitical conflicts, climate change, supply chain shortages, and fast-paced technological advancements, organizations are constantly challenged to maintain an uninterrupted operation and sustainable existence. The traditional crisis management techniques are still largely reactive, short-term and rigid, with a tendency to rely on a single contingency plan that is unable to adjust to the pace and complexity of today's crisis. These traditional approaches are often blind to incorporating agility and sustainability elements within the organization, leading to extended recovery periods, considerable losses, damaged reputations, and lost stakeholder confidence. Organizations often fail to foresee the threats that are on the horizon, are not prepared to adjust accordingly or take advantage of a crisis as an opportunity to become innovative and sustainably grow. Moreover, there is a significant lack of existing approaches that can integrate agile work and the development of resilience strategies in a meaningful way with the general environmental, social and governance (ESG) goals. This disconnect exposes global enterprises to repeated shocks and stymies their ability to compete over the long-term in dynamic markets. If not acted upon, organizations can find themselves operating at risk, losing market share and not meaningfully contributing to the sustainable development agenda. Without an integrated model that challenges the concept of crisis management and looks at the idea from an Agile Resilience perspective, these difficulties are further compounded and the need for a complete model that gives leaders the proactive, adaptive and sustainability skills to cope with uncertainty and excel in the face of adversity becomes more apparent.

The aim of this study is to identify the objectives of the study.

To propose and conceptualise the Agile Resilience framework as a transformative framework which incorporates organisational agility, resilience and sustainability principles to recreate the traditional definition of the crisis management in a VUCA global business environment.

To explore the significance of Agile Resilience for helping organizations to predict disruption, respond to it and recover in a sustainable way, based on theory and empirical evidence from the lessons learned from disasters in other parts of the world in recent times.

To offer strategies and practical recommendations for business leaders on how to implement Agile Resilience, with a focus on adaptive governance, strategic foresight and sustainable value creation in order to be competitive and sustainable in the global business environment.

Statement Of The Problem

In the contemporary global business landscape characterized by heightened volatility, uncertainty, complexity, and ambiguity (VUCA), organizations frequently encounter severe crises such as pandemics, geopolitical conflicts, climate emergencies, supply chain disruptions, and rapid technological advancements that severely threaten operational continuity, financial stability, and long-term sustainability[17]. Traditional crisis management practices remain largely reactive, bureaucratic, and inflexible, relying on outdated contingency plans that lack the agility and adaptability required to address the speed, scale, and interconnectedness of modern disruptions [18]. Consequently, many businesses experience extended recovery periods, substantial economic losses, reputational harm, erosion of stakeholder trust, and missed opportunities to transform crises into drivers of innovation and growth [19]. Moreover, existing approaches often fail to integrate sustainability principles, resulting in short-term fixes that overlook environmental, social, and governance (ESG) responsibilities [20] There is a critical gap in the literature and practice regarding comprehensive frameworks that effectively merge organizational agility with resilience while aligning crisis management with sustainable development goals. This deficiency leaves global enterprises vulnerable to recurring shocks, competitive disadvantages, and inability to build enduring capabilities in dynamic markets. Without a paradigm shift toward proactive and integrated strategies, organizations risk operational fragility, loss of market relevance, and failure to contribute positively to global sustainability objectives [21]. The lack of an Agile Resilience framework that redefines crisis management as a strategic enabler for adaptability and long-term value creation underscores the pressing need for new theoretical and practical solutions in this domain.

Methodology

The methodology used in this study is conceptual and integrative literature review which is adapted to develop the Agile Resilience framework. The systematic search was carried out in major academic databases (Scopus, Web of Science, and Google Scholar) to find relevant peer-reviewed articles, books, and reports on the topic of crisis management, organizational agility, resilience, and sustainability from 2010 to 2026. Thematic analysis was used to critically analyse the selected literature and draw themes, gaps and interconnections. This framework was developed using an inductive approach with empirical examples from recent global crises, as illustrative cases. Last but not least, the proposed model was confirmed by consistency checks as well as by its consistency with known theories in strategic management and organizational studies.

Population And Sampling

The population of this study is scholarly literature, empirical case studies, and real world organizational practices on Crisis management, organizational agility, organizational resilience, and organizational sustainability between 2010 and 2026. High-quality peer-reviewed articles, books, and industry reports were identified and selected using a purposive sampling technique from the reputable databases Scopus, Web of Science and Google Scholar. The inclusion criteria concentrated on issues of VUCA environments, digital transformation and sustainable recovery strategies, to generate a sample of more than 80 relevant sources. Further, illustrative cases of global crises, such as COVID19, disruption in supply chains, and geopolitical events, were purposefully selected for providing practical insights. This non-probability sampling technique proved to be a useful way to achieve depth and relevance when developing the conceptual Agile Resilience framework.

Data Collection And Sources

Aspect	Method / Description	Main Sources
Data Collection	Systematic integrative literature review & thematic analysis	Peer-reviewed journals & reports
Secondary Sources	Academic articles, books, and conceptual papers (2010–2026)	Scopus, Web of Science, Google Scholar
Empirical Insights	Illustrative case studies from recent crises	COVID-19 pandemic, supply chain disruptions, geopolitical conflicts
Additional References	Industry reports and sustainability frameworks	UN SDG reports, World Economic Forum

Analysis And Findings

Table 1: Traditional Crisis Management vs. Agile Resilience

Aspect	Traditional Crisis Management	Agile Resilience Framework
Approach	Reactive and rigid	Proactive, flexible, and adaptive

Focus	Short-term recovery	Long-term sustainability and growth
Response Speed	Slow, bureaucratic	Rapid and iterative
Key Elements	Static contingency plans	Strategic foresight + adaptive governance
Sustainability Integration	Minimal or absent	Core component (ESG alignment)
Outcome	Survival and restoration	Stronger competitiveness and resilience

To provide a structure to the framework, the three pillars of the Agile Resilience framework are outlined in Table 2. Strategic foresight helps companies to predict risks through foresight tools. Adaptive governance is pro-adaptable decision-making and team working. Sustainable Value Creation means that responses to crisis serve the long-term ESG goals. These pillars are integrated and work together to go beyond survival. The overall picture of how these interrelated components fashion a powerful strategy for today's crisis management is conveyed in the table. The structure provides good guidance for practical implementation.

Table 3: Key Findings from Literature and Cases

Benefit	Description
Faster Recovery	Reduces downtime during crises
Enhanced Adaptability	Enables quick response to emerging threats
Sustainable Growth	Aligns recovery with ESG and long-term goals
Stronger Stakeholder Trust	Builds confidence through transparent practices
Competitive Advantage	Turns crises into opportunities for innovation

Table 3 summarizes the main conclusions of the literature and real-life cases, thus confirming the effectiveness of Agile Resilience. The practice of agile has proven to be more effective in recovering from crises and to be more adaptable, as evidenced by recent crises. Customer satisfaction and digital integration serve as the key factors in the journey from customers' perspectives.From customers' perspectives, the key factors in this journey are customer satisfaction and digital integration. Those organizations that have adopted this method are able to show better performance and innovation in the long run. Results highlight the applicability of the framework in various situations. Table 3 overall reinforces the importance of Agile Resilience as a key approach to sustainable business success in turbulent times..

Results And Discussion

The results reveal that the proposed Agile Resilience framework is superior to the traditional crisis management approach, allowing for more rapid recovery, a better ability to adapt to VUCA environments, and sustainability more closely aligned with the organizational's goals. Literature review and crisis cases show that strategic foresight, adaptive governance and sustainable value creation are mediators between positive outcomes like improved operational continuity, stakeholder trust, and sustainable competitive advantage. Organizations with agile practices had less downtime, and even turned disruptions into opportunities for innovation. The discussion underscores the value of using digital technology and customer satisfaction as mediators in enhancing the link between crisis response to long-term business sustainability. In general, Agile Resilience sets a new benchmark for crisis management, positioning it as a strategic capability that organizations must embrace to be ready for any crisis in the global landscape.

Suggestions

Investing in strategic foresight tools like scenario planning and AI-powered early warning systems is a crucial step for business leaders to take in building Agile Resilience by preparing for future disruptions. The organizations are encouraged to have flexible organization, multi-functional team and continuous learning culture, which enables fast decision-making, to ensure adaptive governance. To ensure the recovery process in crisis management aligns with the ESG goals and long-term value creation, it is vital to incorporate the principles of sustainability into the management of such situations. Managers should take advantage of the power of digital technologies and customer engagement strategies to improve adaptability and trust of stakeholders in the event of a crisis. Lastly, it is recommended to have regular training sessions and periodic framework reviews to support its implementation and evolution across global operations and ensure its success.

Conclusion

To summarize: Agile Resilience is a paradigm shift and a much needed approach to a new definition of crisis management in a global business environment in constant flux. The framework combines strategic foresight, adaptive governance, and sustainable value creation to enable organizations to shift away from mere survival to proactive, resilient, and sustainable growth. The study shows that adopting agility and sustainability as key values can have a profound impact on the durability of the business, the trust of stakeholders and its long-term competitiveness in a volatile, uncertain, complex and ambiguous environment. In the end, Agile Resilience makes crisis management a strategic tool to lead to long-term success, not just an urgent task. For global companies to flourish in today's volatile and complex global environment, it is vital to embrace this framework.

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