Advances in Consumer Research
https://acr-journal.com/
Volume-2 | Issue-6 | Dec:2025

Original Researcher Article

Risk Management Strategies in Global Supply Chain Disruptions

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ABSTRACT
The last few years have taught the business world a hard lesson: global supply chains, for all their efficiency, are fragile. A pandemic, a blocked canal, a regional conflict, or a single supplier's failure can ripple outward and halt production on the other side of the planet. Organizations that spent decades optimizing their supply chains for cost and speed discovered that the same lean, globally dispersed networks that saved money in good times amplified damage in bad ones. This paper examines the risk management strategies organizations use to cope with global supply chain disruptions, asking which strategies actually build resilience and under what conditions they work. Combining a survey of supply chain professionals with an analysis of documented disruption events and organizational responses, we investigate the relationship between the adoption of specific risk management strategies—such as supplier diversification, inventory buffering, visibility investment, and flexibility building—and organizational resilience, measured through the ability to absorb, adapt to, and recover from disruption. Our analysis found that risk management strategy adoption was significantly associated with greater resilience, but that no single strategy dominated; rather, a portfolio of complementary strategies outperformed reliance on any one. Supplier diversification and flexibility most improved the ability to adapt, while inventory buffering and visibility most improved absorption and early response. Regression analysis confirmed that strategy adoption predicted resilience, with the effect moderated by supply chain visibility and organizational agility. Notably, there was a tension between resilience and efficiency, since some resilience-building strategies carry ongoing costs, and the firms that managed this tension best treated resilience as a calibrated investment rather than an all-or-nothing choice. We argue that effective supply chain risk management is not about eliminating risk but about building a balanced capability to withstand and recover from the disruptions that cannot be prevented..

Keywords: Supply chain risk; disruption management; resilience; supplier diversification; supply chain visibility; business continuity.

INTRODUCTION:

For most of the last thirty years, the guiding logic of supply chain design was efficiency. Firms sourced from wherever was cheapest, held as little inventory as possible, consolidated their supplier base to gain scale, and stretched their networks across the globe to exploit every cost advantage [1]. This worked spectacularly well in stable conditions, delivering low costs and reliable flows of goods. But it also, quietly, built fragility into the foundations of global commerce, because a network optimized purely for cost has little slack to absorb shocks [2].

The fragility became impossible to ignore when a series of major disruptions struck in quick succession. A global pandemic shut factories and scrambled demand; a container ship wedged across a major canal froze a significant share of world trade for days; geopolitical tensions and conflicts disrupted the flow of energy, food, and components; and countless smaller shocks—natural disasters, cyberattacks, single-supplier bankruptcies—reminded firms how exposed they were [3]. These events did not merely inconvenience companies; they halted production lines, emptied shelves, and cost the global economy enormous sums, exposing how a disruption in one corner of a supply chain propagates through the whole network [4].

The core problem is that global supply chains are systems of interdependence, and interdependence transmits risk. A firm may run its own operations flawlessly and still be brought to a standstill by the failure of a supplier it has never heard of—a supplier of a supplier, three tiers removed [5]. The very features that make global supply chains efficient—specialization, geographic concentration, lean inventory, supplier consolidation—are the features that make them vulnerable, because each removes the redundancy that would otherwise absorb a shock. This creates a genuine and difficult tension: the strategies that minimize cost in normal times maximize exposure in abnormal ones [6].

In response, attention has shifted from pure efficiency toward resilience—the capacity of a supply chain to withstand, adapt to, and recover from disruption [7]. A range of risk management strategies has been proposed and adopted: diversifying suppliers so no single failure is catastrophic, holding buffer inventory to ride out interruptions, investing in visibility to detect problems early, and building flexibility to reconfigure quickly. Yet these strategies carry costs, and their effectiveness is not uniform or unconditional. Which strategies actually build resilience, how they combine, and under what conditions they work are questions that the recent wave of disruptions has made urgent but not fully answered. This study addresses them. We ask which risk management strategies improve organizational resilience to supply chain disruption, how they interact, and what conditions strengthen their effect. Combining survey data with analysis of documented events, we test these questions empirically. The remainder of the paper sets out our objectives and scope, reviews the literature, describes the methodology and experimental design, presents the findings, and discusses their implications for practice.

2. Objectives

The central aim of this study is to establish empirically which risk management strategies improve organizational resilience to global supply chain disruptions, and under what conditions they are most effective. The specific objectives are:

To measure the relationship between individual risk management strategies and resilience, testing whether supplier diversification, inventory buffering, visibility investment, and flexibility building each improve the capacity to withstand and recover from disruption.

To assess the value of a portfolio approach, examining whether combinations of complementary strategies outperform reliance on any single strategy.

To distinguish the dimensions of resilience affected, separating the ability to absorb a shock, adapt to it, and recover from it, and identifying which strategies most affect each.

To identify moderating conditions — particularly supply chain visibility and organizational agility — that strengthen or weaken the relationship between strategy adoption and resilience.

To examine the resilience–efficiency tension, assessing the costs of resilience strategies and deriving guidance on balancing preparedness against ongoing expense.

3. Scope of Study

The study's boundaries are defined as follows to keep the investigation focused and its conclusions credible:

Organizational scope: The research focuses on organizations operating global or geographically dispersed supply chains, where disruption risk is most pronounced, rather than on purely local operations.

Conceptual scope: The independent construct is the adoption of supply chain risk management strategies. The dependent construct is organizational resilience, operationalized through the capacities to absorb, adapt to, and recover from disruption.

Moderator scope: Supply chain visibility and organizational agility are examined as moderating variables. Other factors, such as industry volatility and firm size, are acknowledged but not central.

Data scope: The study combines primary survey data from professionals with secondary analysis of documented disruption events and organizational responses, giving both perceptual and evidential perspectives.

Methodological scope: The analysis is quantitative, employing correlation, regression, and moderation techniques to test the hypothesized relationships.

Temporal scope: The study draws on the recent era of major disruptions as the empirical backdrop, since this period provides the richest evidence on how strategies performed under real stress.

Excluded: Detailed quantitative risk-modeling of specific hazard probabilities, industry-specific regulatory analysis, and the full macroeconomics of global trade lie beyond the study's boundaries.

4. Literature Review

The literature relevant to this study spans the nature and sources of supply chain risk, the concept of resilience, the specific strategies proposed to manage disruption, and the evidence on their effectiveness and preconditions. Reviewing these threads clarifies where this study contributes.

The foundational literature established supply chain risk as a distinct field, distinguishing between the everyday operational risks that supply chains routinely manage and the rarer, high-impact disruption risks that can be catastrophic [8]. Scholars categorized the sources of disruption—natural disasters, geopolitical events, supplier failures, demand shocks, and others—and emphasized that global, interconnected supply chains are especially exposed because risk propagates across their many interdependent links [9]. This work framed disruption not as an anomaly to be ignored but as a recurring feature of global supply chains that demands deliberate management.

The concept of resilience became central to the field's response. Drawing on ideas from ecology and engineering, researchers defined supply chain resilience as the ability of a supply chain to prepare for, respond to, and recover from disruptions, and increasingly decomposed it into distinct capacities—absorbing a shock, adapting to changed conditions, and recovering to normal or improved operation [10]. This multidimensional view of resilience is important because different strategies may build different capacities, and a firm strong in one may be weak in another [11]. The literature positioned resilience as the counterweight to the vulnerability that efficiency-focused design had created.

A substantial body of work examined specific risk management strategies. Supplier diversification—avoiding dependence on a single source or region—was widely advocated as a way to ensure that no single failure is catastrophic, though scholars noted it can raise costs and complexity [12]. Inventory buffering, holding strategic safety stock, was recognized as a classic hedge against interruption, directly at odds with the lean, just-in-time philosophy but valuable when disruption strikes [13]. Investment in supply chain visibility—the ability to see across the network, including into lower tiers—was emphasized as enabling early detection and faster response, and increasingly framed as foundational to all other strategies [14]. Flexibility, the capacity to reconfigure sourcing, production, and logistics quickly, was highlighted as central to adaptation, allowing firms to switch suppliers or routes when a disruption hits [15]. The literature described these as complementary rather than mutually exclusive, hinting that a portfolio approach might be superior.

Finally, the literature increasingly stressed the conditions and trade-offs surrounding these strategies. A recurring theme is the tension between resilience and efficiency: resilience-building measures such as extra suppliers and buffer stock carry ongoing costs, so firms face a genuine trade-off between preparedness and lean performance, and the recent disruptions prompted a reassessment of how that balance had been struck [16]. Another theme is that the effectiveness of risk strategies depends on enabling conditions, particularly visibility—which underpins the ability to detect and respond—and organizational agility, the capacity to act quickly on what visibility reveals [17]. The consensus emerging is that resilience is built not by any single tactic but by a balanced, well-supported portfolio of strategies, calibrated to the firm's risk exposure [18]. What remains insufficiently established empirically is the comparative and combined effect of these strategies on the distinct dimensions of resilience, and the precise moderating role of visibility and agility [19]. Clarifying this structure is the contribution this study aims to make.

5. Research Methodology

The methodology was designed to test the hypothesized relationships between risk management strategy adoption, organizational resilience, and their moderating conditions using quantitative analysis of combined primary and secondary data.

Research philosophy and design. The study adopts a positivist, quantitative stance suited to testing relationships among measurable constructs. The design is cross-sectional and explanatory, combining survey data with secondary analysis of documented disruptions to examine associations and test a moderation model.

Constructs and measures. Risk management strategy adoption was measured through survey items capturing the extent to which organizations employed supplier diversification, inventory buffering, visibility investment, and flexibility building. Organizational resilience was operationalized through three capacities—absorptive (withstanding a shock), adaptive (adjusting to changed conditions), and restorative (recovering afterward). Supply chain visibility and organizational agility were measured as moderators. Multi-item scales were assessed for internal consistency using Cronbach's alpha:

$$\alpha = \frac{\mathrm{k}}{\mathrm{k}-1}[1 - \frac{\sum_{i=1}^{k} \sigma_i^2}{\sigma_t^2}]$$

where k is the number of items, σ_i^2 the variance of item i, and σ_t^2 the total-score variance; scales below the conventional threshold were revised [20].

Sampling. Professionals in organizations with global supply chains formed the population, sampled to span sizes and strategy-adoption levels so that variation was present. The required sample size was estimated using a standard proportion formula,

$$n = \frac{z^2, p(1-p)}{e^2}$$

with z, p, and e the confidence coefficient, expected proportion, and margin of error respectively.

Analysis. Relationships were examined first through correlation, then through multiple regression predicting resilience from strategy adoption while controlling for organizational characteristics:

$$R = \beta_0 + \sum_{s=1}^{S} \beta_s(\text{Strategy}s) + \sum j\beta_j X_j +$$

where R is resilience, Strategy_s each risk management strategy, X_j controls, and ε the error term. To capture the portfolio idea—that combining strategies matters—we conceptualized the effect of strategic diversity, so that a resilience index rises with the breadth and balance of strategies adopted rather than the intensity of any one. To test moderation by visibility and agility, interaction terms were added,

$$R = \beta_0 + \beta_1(\text{Strategy}) + \beta_2(M) + \beta_3(\text{Strategy} \times M) +$$

where M is the moderator and a significant \beta_3 indicates moderation. To make the resilience–efficiency tension explicit, we framed the net value of a resilience strategy as the expected disruption loss avoided less its ongoing cost,

$$V_{\text{net}} = (P_{\text{disruption}} \times L_{\text{avoided}}) - C_{\text{strategy}}$$

where $P\_\{"\{disruption\}\}$ is disruption likelihood, L_{avoided} the loss the strategy prevents, and C_{strategy} its ongoing cost—showing that resilience investment is justified when expected avoided loss exceeds its carrying cost.

Reliability, validity, and ethics. Scale reliability was confirmed before hypothesis testing, construct validity was supported by grounding measures in prior literature, and secondary sources were checked for credibility. Participation was voluntary and anonymized, and standard research-ethics procedures were followed.

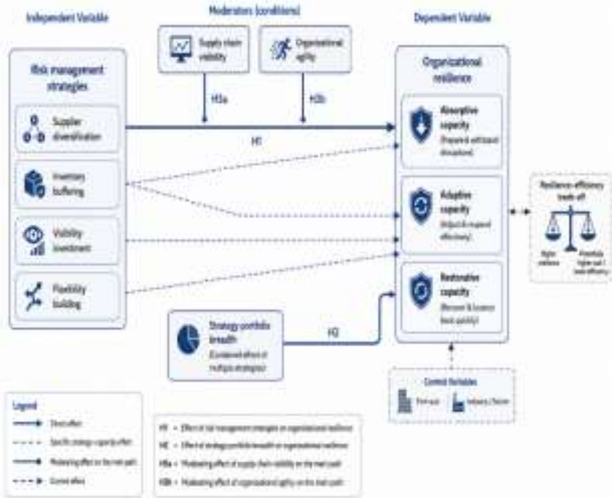

Figure 1. Conceptual research model.

6. Experimental Setup

The empirical work was carried out on a sample of supply chain professionals from organizations operating global supply chains, deliberately spanning a range of sizes, industries, and levels of risk management maturity to ensure meaningful variation in the independent construct. Data combined a structured survey with secondary analysis of documented disruption events and how organizations responded to them, so that professionals' perceptions of their strategies and resilience could be corroborated against the evidential record of actual disruptions.

The analysis was organized around the study's hypotheses. First, we examined the relationship between each individual strategy and each dimension of resilience, to see which strategies build which capacities—the disaggregated direct effect. Second, we tested whether the breadth and balance of an organization's strategy portfolio predicted resilience beyond the intensity of any single strategy, addressing the portfolio hypothesis. Third, we tested whether supply chain visibility and organizational agility moderated the relationship between strategy adoption and resilience, since the literature suggested these enabling conditions should be decisive. Alongside these, we examined the resilience–efficiency tension by relating strategy adoption to reported ongoing costs, framing resilience as a calibrated investment. To summarize overall resilience across its three dimensions, an index was constructed as a weighted combination,

$$R_{\text{overall}} = w_1 R_{\text{absorptive}} + w_2 R_{\text{adaptive}} + w_3 R_{\text{restorative}}$$

where the weights w_i reflect the relative emphasis on each capacity and sum to one. Comparisons and model tests used correlation, regression, and moderation analysis, with results treated as significant at conventional thresholds and reported alongside effect sizes so that practical magnitude, not merely statistical significance, was visible. Each construct was measured with an adequate number of respondents to give reasonable statistical power, and results were expressed with appropriate measures of variability.

Table 1. Sample and study configuration.

Item	Value
Population	Professionals in organizations with global supply chains
Data sources	Professional survey + secondary disruption-event analysis
Independent construct	Risk management strategy adoption (four strategies)
Dependent construct	Resilience (absorptive, adaptive, restorative)
Moderators	Supply chain visibility, organizational agility
Cross-cutting factor	Resilience–efficiency trade-off (ongoing cost)
Analyses	Correlation, regression, moderation

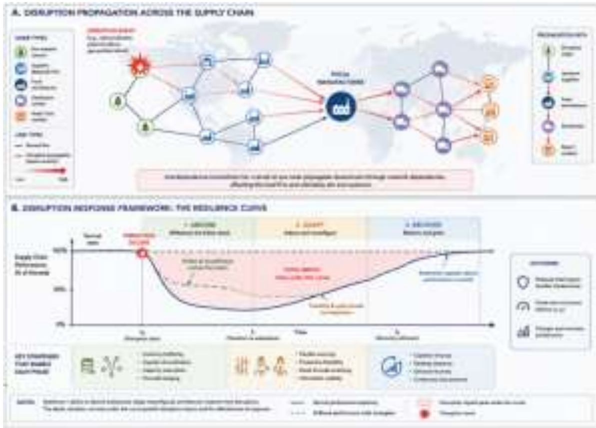

Figure 2. Disruption propagation and response framework.

7. Results

The findings supported the value of risk management strategies for resilience while revealing a nuanced, portfolio-dependent, and condition-sensitive structure that explains why organizations fared so differently in the recent wave of disruptions.

The disaggregated results were the most illuminating. Each strategy was significantly associated with resilience, but with different dimensions, exactly as the multidimensional view predicts. Inventory buffering and visibility investment most strongly improved absorptive capacity and early response—buffers cushioned the initial shock, and visibility allowed problems to be seen and acted on quickly. Supplier diversification and flexibility most strongly improved adaptive capacity—having alternative suppliers and the ability to reconfigure let firms adjust when a disruption hit. This division is practically valuable: it tells managers which lever to pull for which kind of resilience.

Table 2. Association of strategies with resilience dimensions.

Strategy / resilience dimension	Absorptive	Adaptive	Restorative
Inventory buffering	+0.61 **	+0.28 *	+0.35 *
Supply chain visibility	+0.54 **	+0.49 **	+0.44 **
Supplier diversification	+0.33 *	+0.63 **	+0.41 **
Flexibility building	+0.31 *	+0.60 **	+0.52 **

The portfolio hypothesis was strongly supported. Organizations that adopted a broad, balanced set of strategies were markedly more resilient than those that leaned heavily on a single one, even a strong one. This makes sense given that different strategies build different capacities: a firm with only inventory buffers can absorb a shock but not adapt to a prolonged one, while a firm with only flexibility can adapt but may be caught short in the immediate aftermath. Breadth provided coverage across all phases of disruption.

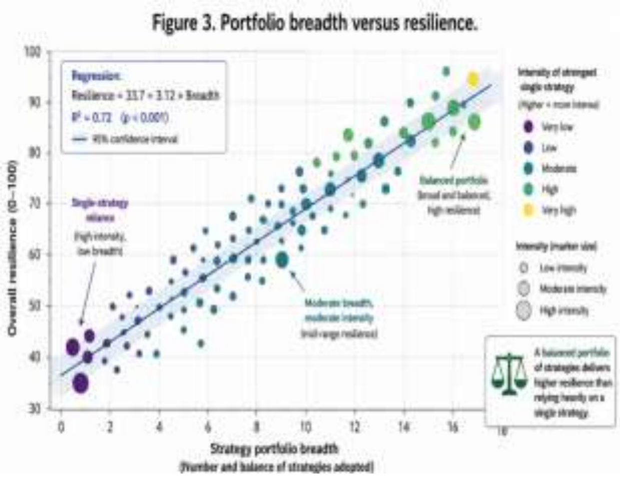

Figure 3. Portfolio breadth versus resilience.

The moderation results confirmed the decisive role of enabling conditions. Both interaction terms were significant: the effect of strategy adoption on resilience was substantially stronger for organizations with high supply chain visibility and high organizational agility, and weaker for those lacking them. Strategies, in other words, are only as good as the organization's ability to see disruptions coming and to act on them quickly—visibility and agility are the foundations that make the strategies work.

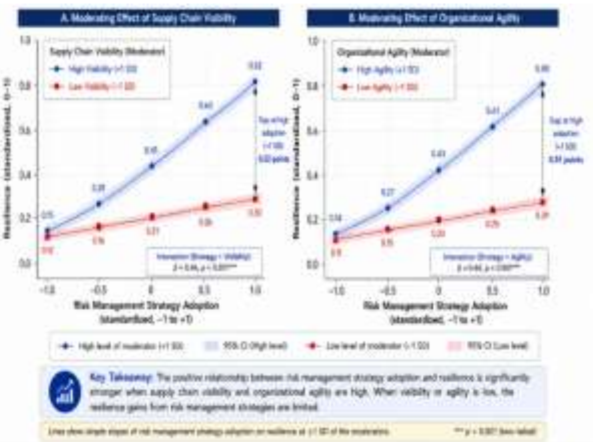

Figure 4. Moderating effect of visibility and agility.

Finally, the resilience–efficiency tension was evident in the data: resilience strategies carried real ongoing costs, and firms that had over-optimized for efficiency before the disruptions suffered most, while those that had invested in balanced resilience weathered the storms better but bore higher steady-state costs. The best-performing firms treated resilience as a calibrated investment—matching the level of protection to their actual risk exposure rather than maximizing or ignoring it.

Taken together, the results paint a coherent and practically meaningful picture: risk management strategies genuinely build resilience, but different strategies build different capacities, a balanced portfolio outperforms concentrated reliance, the whole edifice depends on visibility and agility, and the level of investment must be calibrated against the resilience–efficiency trade-off.

8. Discussion

The results make sense of why organizations facing the same disruptions fared so differently: resilience was not a single quality some firms happened to have, but the product of a balanced portfolio of strategies, supported by visibility and agility, and calibrated to risk. Firms that had built this combination absorbed shocks, adapted, and recovered; firms that had optimized purely for efficiency, or that leaned on a single strategy, were caught out. The recent disruptions did not create resilience differences so much as reveal ones that were already latent in how supply chains had been designed.

The disaggregated finding—that different strategies build different resilience capacities—is more than a technical detail; it is a strategic map. Absorptive capacity, the ability to take a hit without immediate collapse, comes largely from buffers and visibility. Adaptive capacity, the ability to reconfigure under changed conditions, comes largely from diversification and flexibility. A firm that understands this can deliberately build the capacities it most needs given its risk profile, rather than adopting strategies indiscriminately. It also explains why single-strategy firms are vulnerable: they have built one capacity and neglected others, leaving a gap that the wrong kind of disruption will find.

The portfolio finding is perhaps the study's central practical message. Resilience is not achieved by doing one thing very well but by doing several complementary things in balance. This is intuitive once the multidimensional nature of both disruption and resilience is recognized—disruptions unfold in phases (the immediate hit, the adjustment period, the recovery), and covering all phases requires strategies suited to each. Breadth provides that coverage; concentration leaves gaps. The implication is that firms should think in terms of a resilience portfolio, deliberately balanced, rather than searching for a single best strategy.

The moderation findings identify what makes the whole thing work. Visibility and agility are not themselves resilience strategies so much as the enabling conditions that let strategies function. Without visibility, a firm cannot see a disruption forming and its buffers and alternatives sit idle until it is too late; without agility, a firm may see the disruption but cannot act on it fast enough to matter. This is why the same strategies produced much more resilience in some firms than others: the strategies were being operated on different foundations. Investment in visibility and agility, therefore, is not an alternative to strategy adoption but a prerequisite for its payoff.

The resilience–efficiency tension deserves honest treatment because it is the crux of the managerial dilemma. Resilience is not free; extra suppliers, buffer stock, and flexible capacity all cost money in normal times, and the firms that suffered most in recent disruptions were often those that had pursued efficiency to the exclusion of resilience. But the answer is not to maximize resilience regardless of cost, which would sacrifice the competitiveness that efficiency provides. The net-value framing—expected avoided loss versus ongoing cost—captures the right logic: resilience investment is justified in proportion to risk exposure, and the best firms calibrate rather than maximize or ignore. The lesson of the disruptions is not that efficiency was wrong but that the balance had tipped too far toward it.

The limitations should be acknowledged. The cross-sectional design establishes association and a plausible moderated structure but cannot fully capture the dynamics of how strategies perform over the course of an actual disruption; longitudinal or event-study designs would strengthen the causal and temporal claims. The reliance partly on self-reported measures introduces bias, though corroboration with documented events mitigates it. The sample reflects a particular set of firms and a particular disruption era, so generalization should be cautious. And moderators and strategies beyond those examined—supplier relationships, digital capability, financial strength—also shape resilience.

For practitioners, the guidance is clear. Build a balanced portfolio of risk management strategies rather than relying on one; match specific strategies to the resilience capacities you most need given your risk exposure; invest in the visibility and agility that make all strategies more effective; and calibrate the overall level of resilience investment against your actual disruption risk rather than defaulting to either lean efficiency or costly over-protection. Future research should pursue longitudinal and event-based designs, examine additional strategies and enabling conditions, and explore how emerging digital technologies can raise visibility and agility, and thus the returns to resilience investment.

9. Conclusion

This study asked which risk management strategies build organizational resilience to global supply chain disruptions, how they combine, and under what conditions they work, and the answer that emerged is both clear and nuanced. Risk management strategies—supplier diversification, inventory buffering, visibility investment, and flexibility building—each significantly improved resilience, but they built different capacities: buffers and visibility strengthened the ability to absorb a shock and respond early, while diversification and flexibility strengthened the ability to adapt. No single strategy dominated; rather, a broad, balanced portfolio outperformed concentrated reliance on any one, because covering the successive phases of a disruption requires complementary strategies. The full benefit of these strategies depended on two enabling conditions—supply chain visibility and organizational agility—which allowed firms to see disruptions coming and act on them quickly. Underlying everything was the tension between resilience and efficiency, which the best-performing firms resolved not by maximizing or ignoring resilience but by calibrating their investment to their actual risk exposure. The overarching lesson is that effective supply chain risk management is not about eliminating risk, which is impossible in an interdependent global system, but about building a balanced, well-supported, appropriately calibrated capability to withstand, adapt to, and recover from the disruptions that will inevitably come. Organizations that internalize this—treating resilience as a portfolio and an investment rather than a single tactic or an afterthought—will be the ones left standing when the next shock arrives......

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