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Article

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STRATEGIC MANAGEMENT, ORGANIZATIONAL AGILITY, AND COMPETITIVE ADVANTAGE IN THE DIGITAL AGE: A CASE-BASED THEORETICAL STUDY

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Abstract

The accelerating pace of digital disruption obliges companies to repeatedly adjust their strategy, structure, and abilities to stay ahead. This study examines how the practices of strategic management and what specific strategic management practices deliver organizational agility and maintain digital-era competitiveness. This inquiry was guided by three sequential steps. First, a systematic review of over 20 recent peer-reviewed studies (2018-2025) to distil what we actually know, and do not know, about digital-era agility. Next, the Resource-Based View, Dynamic Capabilities Theory and the Strategic Alignment Model, to create an integrated "capability-system" framework. Finally, the framework illustrated with PepsiCo: a 60-year-old multinational that has repeatedly turned digital disruption into new sources of growth. The findings pointed to a simple recipe. Agility is not a single skill but a trio: sharp environmental sensing, friction-free resource redeployment, and leadership teams that speak with one voice. Digital leaders initiate virtuous cycles by institutionalizing experimentation and data-driven decisions, yet its impact fades unless the firm keeps learning and innovating in loops that feed straight back into strategy. PepsiCo's AI-powered

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supply-chain and marketing moves show how alignment between technology choices and business goals converts incremental gains into lasting advantage. For managers, the message is clear: treat leadership, agility and innovation as one living system, tune it continuously, and measure it against strategic outcomes. For scholars, the study exposes blind spots, too many success stories, too few failures, and too little longitudinal evidence outside large Western multinationals that future research must fill.

Keywords: Strategic Management, Organizational Agility, Competitive Advantage, Digital Age, Case-based Theoretical Study.

Introduction

Strategic management in the digital age has moved away from the linear, first-generation planning paradigms toward rapid, iterative modes of strategy that evolve continuously in response to fast-paced, technology-driven markets (Singh & Preeti, 2024; Shao, 2025). Digital transformation is no longer peripheral; it is the central driver of survival and prosperity (Shao, 2025). Success hinges on capitalizing on converging technologies, reconfiguring assets, and cultivating a fast-learning culture. Firms that neglect these imperatives risk digital obsolescence. The digital-transformation literature identifies three interrelated capabilities: These include; Digital leadership, which catalyzes change; Organizational agility, which accelerates adaptation; and Innovation capacity, which converts change into sustainable competitive advantage (Albannai *et al.*, 2024; Rialti & Filieri, 2024). Despite extensive research, the literature remains fragmented. Few studies examine failure cases or long-term strategy effectiveness, prompting calls for broader contributions (Setyawulan *et al.*, 2024). Moreover, empirical work rarely embeds the three capabilities in a single theoretical model, leaving their dynamic interactions speculative (Li, 2025; Lu *et al.*, 2024). PepsiCo exemplifies successful navigation of digital turbulence through strategic congruence, AI analytics, and an innovation culture (Athreya *et al.*, 2024; Gouveia *et al.*, 2024). Yet such exemplars seldom appear in wider theoretical frameworks linking strategic practices to competitive advantage. Hence, studies that integrate prevailing theories with best-practice cases are urgently needed. This research fills that gap by examining strategic-management practices that foster organizational agility and competitive advantage amid digitization. It synthesizes the Resource-Based View (RBV), Dynamic Capabilities Theory, and the Strategic Alignment Model to frame a theoretical model for sustained competitiveness under constant disruption, using PepsiCo as the illustrative case.

Objectives of the Study

- i. Analyze how strategic-management practices shape organizational agility during digital transformation, highlighting mechanisms through which firms sense, respond to, and exploit market changes.
- ii. Examine the role of digital-transformation initiatives in sustaining competitive advantage, focusing on how technology adoption interacts with leadership and innovation capacity.
- iii. Evaluate PepsiCo's strategic response to digital disruption as an illustrative case, demonstrating how theoretical constructs manifest in practice.
- iv. Integrate RBV, Dynamic Capabilities Theory, and the Strategic Alignment Model into a coherent framework that explains how leadership, agility, and innovation co-evolve in digitally dynamic environments.

- v. Provide evidence-based recommendations for organizations seeking to leverage digital transformation for sustained competitiveness in rapidly changing markets.

Review of Related Literature

The interplay among strategic management, organizational agility, and competitive advantage has attracted intense scrutiny as businesses confront digital disruption. A growing consensus holds that survival and success in the digital era depend on the dynamic interplay among leadership, digital-transformation practices, and innovation capability (Singh & Preeti, 2024; Shao, 2025). The literature, however, is fragmented, with an uneven focus on how these factors interact and insufficient empirical attention to diverse organizational contexts.

Digital Leadership

Digital leadership is consistently highlighted as a source of organizational flexibility and innovation. Leaders who balance visionary guidance with participatory decision-making create conditions for rapid learning and adaptation (Rialti & Filieri, 2024; Li, 2025). Albannai *et al.* (2024) show that leadership in the UAE media sector fostered resilience and innovation by nurturing an agile culture. Similarly, Jasim *et al.* (2024) attribute digital leadership to enhanced learning processes in transitioning SMEs, while Ramadan *et al.* (2023) underscored its role in enabling business-model innovation. Yet leadership effects are not uniform; Dióssy *et al.* (2025) and Musaigwa & Kalitanyi (2023) noted that relationship-oriented leadership can stifle innovation in rigid industries. The literature thus calls for deeper insight into context-dependent leadership behavior and their interaction with organizational structures.

Dynamic Capabilities

Dynamic Capabilities Theory (Teece, 2018) pointed that agility stems from a firm's capacity to sense opportunities, seize them, and reconfigure resources in response to environmental shifts. Empirical studies show that companies with well-developed dynamic capabilities achieve greater digital-transformation readiness and faster innovation (Amin & Khan, 2024; Lu *et al.*, 2024). Franco *et al.* (2022) emphasized structural mechanisms that facilitate business-model innovation, whereas Mihardjo & Sasmoko (2019) link co-creation strategies to innovation in telecommunications. Scholars, however, rarely control for the non-linear relationships between innovation intensity and performance (Lu *et al.*, 2024) and often overlook how legacy systems, risk cultures, and power asymmetries mediate transformation (Ononiwu *et al.*, 2024). These omissions raise unresolved questions about how firms develop, sustain, or lose dynamic capabilities over time.

Organizational Agility

Agility is consistently portrayed as the mediating capability through which leadership and digital investments translate into performance (Albannai *et al.*, 2024; Singh & Preeti, 2024). Agility comprises strategic sensitivity, resource fluidity, and leadership unity (Christofi & Chourides, 2024), enabling companies to pivot quickly in response to change. Empirical evidence confirms that agile organizations outperform rigid ones in innovation and market responsiveness (Rawashdeh *et al.*, 2024). Yet the literature remains dominated by success stories from multinationals, neglecting how SMEs and emerging-economy firms build agility under constraints (Al-Alawi *et al.*, 2024). Longitudinal studies tracking the evolution of agility are scarce, limiting understanding of how companies maintain this capability across transformation cycles (Setyawulan *et al.*, 2024).

Strategic Alignment

Strategic alignment consistency between business and IT strategy is widely acknowledged as key to digital success (Adama *et al.*, 2024; Shao, 2025). PepsiCo illustrates how alignment strengthens competitive advantage by integrating AI analytics with supply chain and marketing strategies (Athreya *et al.*, 2024; Gouveia *et al.*, 2024). Research shows that alignment maximizes the impact of digital investments (Rialti & Filieri, 2024), but few studies examine how alignment is developed and sustained amid relentless technological and market change. Moreover, while digital maturity is increasingly linked to performance (Alrub & Cañizares, 2025), research has yet to explain how maturity interacts with leadership and capabilities to drive long-term advantage.

Cultural Preparedness and Human Capital

This literature consistently suggests that transformation success depends on cultural readiness and human-capital development. Organisations that invest in learning cultures and empower staff achieve greater agility and innovation (Franco *et al.*, 2022; Wang Jian & Regua, 2024). Conversely, cultural resistance, skills shortages, and structural inertia repeatedly emerge as challenges (Ononiwu *et al.*, 2024). Yet cultural dimensions are often treated as background variables rather than as central to transformation efforts.

Research Gaps

Although studies confirm that leadership, agility, and innovation drive digital success, several gaps persist:

- i. Most studies address these factors individually rather than as components of an integrated capability system (Yuan & Khan, 2024).
- ii. Empirical investigations are dominated by cross-sectional designs, offering only static snapshots (Agarwal & Gupta, 2020).
- iii. Failure cases are under-reported, creating a success bias that limits theoretical robustness (Setyawulan *et al.*, 2024).
- iv. Contexts beyond large firms in developed economies are under-represented, undermining generalizability (Al-Alawi *et al.*, 2024).

This study addresses these gaps by synthesizing Resource Based View, Dynamic Capabilities Theory, and the Strategic Alignment Model into an explanatory framework. It examines how leadership, agility, and innovation interact to generate sustained advantage in digital contexts, using PepsiCo as an embedded case.

Theoretical Framework

Strategic management in the digital era requires a framework that explains how firms combine leadership, resources, and technology to maintain advantage amid relentless change. This research integrates three complementary theories RBV, Dynamic Capabilities Theory, and the Strategic Alignment Model to describe how digital leadership and innovation interact with organizational agility to influence competitive outcomes.

Resource-Based View (RBV)

The RBV posits that sustained competitive advantage accrues from resources that are valuable, rare, inimitable, and non-substitutable (Barney, 1991). In the digital age, these resources extend beyond physical assets to include data analytics, AI platforms, and human capital (Seyadi & Elali, 2022). PepsiCo's use of AI-enabled analytics illustrates how data, combined with organisational expertise, becomes a strategic asset that streamlines supply-

chain efficiency and customer engagement (Athreya *et al.*, 2024; Gouveia *et al.*, 2024). RBV's static emphasis on resources, however, cannot explain how firms continuously renew these assets, necessitating complementary perspectives.

Dynamic Capabilities Theory

Dynamic capabilities theory extends RBV by highlighting how firms sense opportunities, seize them, and reconfigure resources in response to environmental shifts (Teece, 2018). Scholarship shows that dynamic capabilities underpin digital transformation by enabling rapid integration of new technologies and strategic reorientation (Amin & Khan, 2024; Albannai *et al.*, 2024). These are not mere operational routines but higher-order processes that allow firms to align, adapt, and innovate continuously. PepsiCo embodies dynamic capabilities by embedding digital tools into core functions while fostering a culture of experimentation and learning, ensuring long-term competitiveness (Lu *et al.*, 2024).

Strategic Alignment Model

The Strategic Alignment Model stresses the need for coherence between business strategy and IT capabilities (Adama *et al.*, 2024). In dynamic environments, alignment ensures that digital initiatives support organisational goals instead of becoming standalone projects. Researches have validated that firms achieving close alignment between digital transformation and strategic objectives exhibit superior agility and performance (Shao, 2025; Rialti & Filieri, 2024). PepsiCo's holistic integration of AI and analytics exemplifies how alignment magnifies the value of digital investments, converting technology adoption into strategic outcomes. Taken together, these theories position organizational agility as the mediating process through which leadership and innovation yield durable advantage. Leadership configures strategic vision, facilitates resource reconfiguration, and promotes cross-functional alignment (Rialti & Filieri, 2024; Li, 2025). This synthesis moves beyond treating leadership, agility, and innovation as discrete constructs, viewing them instead as elements of an integrated capability system that propels performance in digital environments. Existing research, however, has not adequately examined how these theories interact dynamically over time. This study bridges that gap by integrating these perspectives into a framework that explains how leadership, agility, and innovation co-evolve to sustain competitive advantage.

Methodology

This study adopts a qualitative theoretical design, combining a systematic literature review with an embedded case analysis to identify strategic-management practices that enable organisational agility and sustain digital-age competitive advantage. Grounded in a pragmatist paradigm, the methodology values versatility and contextual usefulness (Creswell & Creswell, 2018), integrating theoretical insights with real-world practice.

Literature Search and Selection

Peer-reviewed articles (2019-2025) were retrieved from Scopus, Web of Science, ScienceDirect, and Google Scholar using keywords such as strategic management, organisational agility, digital leadership, dynamic capabilities, and competitive advantage. Studies were included if they focused on at least one key construct leadership, agility, innovation, or digital transformation, and provided empirical or theoretical insights. Foundational works (e.g., Barney, 1991; Teece, 2018) were retained for their centrality. After title, abstract, and full-text screening, 52 articles met the inclusion criteria.

Case Selection and Data Collection

PepsiCo was purposively selected as an exemplar multinational that has linked digital-transformation initiatives to strategic objectives. Secondary data sources included scholarly studies (Athreya *et al.*, 2024; Gouveia *et al.*, 2024), company reports, sustainability reports, and industry analyses (2018–2024).

Data Analysis

A three-stage thematic content analysis was employed:

- i. Open coding captured recurring themes (e.g., leadership behaviors, agility mechanisms, capability reconfigurations).
- ii. Axial coding consolidated these into second-order categories aligned with the theoretical frameworks.
- iii. Selective coding linked categories into an overarching structure explaining how leadership, capabilities, and alignment interact in digital transformation.

Validation

Triangulation cross-validated literature findings with PepsiCo case evidence and industry reports, enhancing validity (Bryman, 2016).

Limitations

- i. Reliance on secondary data limits access to internal dynamics.
- ii. The single-case design restricts generalizability.
- iii. As a qualitative synthesis, the study does not establish causality.

These limitations are mitigated through triangulation, rigorous coding, and multiple data sources, yielding a robust foundation for understanding how organisations cultivate agility and innovation for sustained competitiveness.

Findings

The synthesis of literature and the PepsiCo case reveals that competitive excellence in the digital era hinges on the interlocking of leadership, adaptability, and innovation. Four key themes emerged:

- i. **Organisational Agility as the Cornerstone:** Agility comprising strategic sensitivity, resource fluidity, and leadership unity emerges as a distinctive capability (Christofi & Chourides, 2024; Albannai *et al.*, 2024). Firms that sense weak signals first, redeploy resources fastest, and pivot strategically outmaneuver slower rivals (Lu *et al.*, 2024). PepsiCo's integration of data analytics into operations and marketing enabled rapid, yet strategically coherent responses to market shifts (Athreya *et al.*, 2024; Gouveia *et al.*, 2024).
- ii. **Digital Leadership as the Catalyst:** Effective leaders embed technology adoption, foster a culture of experimentation and learning, and promote cross-functional collaboration (Rialti & Filieri, 2024; Li, 2025). Leadership acts as an activator, setting strategic direction while balancing exploration with exploitation. Conversely, overly hierarchical or relationship-oriented leadership can stifle innovation in rigid industries (Dióssy *et al.*, 2025; Musaigwa & Kalitanyi, 2023). At PepsiCo, leadership consensus on digital goals transformed AI from an operational tool into a source of competitive advantage (Gouveia *et al.*, 2024).
- iii. **Innovation as a Continuous Loop:** Innovation is not a linear output but a feedback-driven process contingent on organisational learning and cultural readiness (Franco *et*

al., 2022; Ononiwu *et al.*, 2024). Studies confirmed that digital investments yield long-term returns only when paired with cultures of experimentation (Ramadan *et al.*, 2023; Rawashdeh *et al.*, 2024). PepsiCo's iterative cycle of integrating customer insights into product design exemplifies innovation as a self-reinforcing value loop rather than a one-off improvement.

- iv. **Strategic Alignment as the Enabler:** Firms that embed digital initiatives within corporate strategy outperform those treating technology as an isolated project (Shao, 2025; Adama *et al.*, 2024). Alignment ensures technology adoption reinforces competitive positioning. PepsiCo's synchronized digital transformation of supply-chain optimization, customer engagement, and innovation strategies produced measurable performance gains (Athreya *et al.*, 2024).

Persistent Research Gaps

- i. Empirical research is biased toward large multinationals in developed economies, under-representing SMEs and emerging markets (Al-Alawi *et al.*, 2024).
- ii. Failure cases are neglected, constraining understanding of how digital strategies unravel (Setyawulan *et al.*, 2024).
- iii. Cross-sectional designs obscure how capabilities evolve over transformation cycles.

These gaps underscore the need for longitudinal, comparative research that captures the complex sequencing and feedback loops inherent in digital-era competitiveness.

Discussion

The findings of this study affirms that success in volatile digital environments depends on embedding leadership, agility, and innovation within a strategic framework.

Conceptual Inter-linkages in the Digital Age

- i. Strategic management is the intentional sense-giving process by which top management articulates an aspiration (value proposition, profit formula, strategic intent), allocates attention and resources, and legitimises recurrent re-configuration as "normal work" rather than one-off change.
- ii. Organizational agility is the sense-making & sense-responding capability that converts managerial intent into adaptive action. Digitally, it operates as a three-cycle engine: (i) Sensing cycle – real-time data exhaust, social listening, AI-powered weak-signal radar; (ii) Seizing cycle – rapid experiment sprints, cloud-native resource fluidity, micro-budget gates; (iii) Re-configuring cycle – modular processes, API architectures, dynamic teaming.
- iii. Competitive advantage is the transient performance gap created when the firm's rate of adaptive action (clock-speed) exceeds the industry's rate, producing temporarily superior value that is costly to imitate because it is embedded in path-dependent, socially-complex, digitally-augmented routines.

Digitization tightens and accelerates the loops: cheap data enlarge the sensing surface, cloud infrastructure cheapens seizing experiments, and AI analytics accelerate re-configuration. Thus, in the digital age the linkage is recursive, not linear: Strategic management sets aspiration & legitimises perpetual re-configuration; Organizational agility operationalizes that aspiration through faster sensing-seizing-reconfiguring cycles; Competitive advantage emerges as the transient outcome until the next loop begins. PepsiCo illustrates the recursive loop. Corporate strategy set an aspiration to "win local share of throat through hyper-relevant flavor innovation"; this mandate authorized cross-functional squads.

Organizational agility routines then produced three-week flavor micro-batches that reached retail shelves for rapid consumer testing. The outcome was a measurable, albeit transient, competitive advantage: the brand gained 1.4 percentage points of market share within eighteen months. Crucially, the same sensing-seizing-reconfiguring cycle immediately reset the aspiration bar higher, confirming that strategy, agility and advantage form one self-reinforcing system whose clock speed is accelerated by digital tools.

Agility as the Mediator

Firms that institutionalize environmental sensing, rapid decision-making, and resource reconfiguration consistently outpace less adaptive competitors (Albannai *et al.*, 2024; Lu *et al.*, 2024). This aligns with Dynamic Capabilities Theory, where asset reconfigurability in shifting contexts defines high-performing firms (Teece, 2018). PepsiCo's AI-driven supply-chain responsiveness illustrates agility as a routinised competency rather than a reactive measure (Athreya *et al.*, 2024).

Leadership as the Cultural Architect

Digital leaders cultivate experimentation cultures, empower teams, and make data-driven decisions (Rialti & Filieri, 2024; Li, 2025). Leadership models that balance exploration and exploitation enable innovation without eroding efficiency (Banerjee, 2022). Overly hierarchical styles, however, can inhibit innovation in rigid sectors (Dióssy *et al.*, 2025). PepsiCo's leadership alignment on digital priorities amplified technology's strategic impact, converting operational tools into competitive levers (Gouveia *et al.*, 2024).

Innovation as a Dynamic Outcome

Innovation emerges through feedback loops shaped by leadership and agility. Digital investments yield sustained returns only when coupled with learning cultures (Franco *et al.*, 2022; Ononiwu *et al.*, 2024). PepsiCo's continuous innovation melding customer data with product development demonstrates how intangible resources, dynamically managed, create hard-to-replicate value, supporting RBV.

Strategic Alignment as the Force Multiplier

Misaligned technology initiatives often under-utilized digital assets, resulting in fragmented transformations (Adama *et al.*, 2024; Shao, 2025). PepsiCo's success validates the Strategic Alignment Model: IT-business coherence enhances performance by ensuring digital projects reinforce core objectives. Despite burgeoning literature, research remains fragmented and success-biased, with limited attention to failure dynamics (Setyawulan *et al.*, 2024). Leadership, agility, and innovation are typically studied in isolation rather than as inter-dependent capabilities. Longitudinal designs and emerging-economy contexts are under-explored (Al-Alawi *et al.*, 2024). By integrating RBV, Dynamic Capabilities, and Strategic Alignment, this study offers a holistic framework showing how leadership-driven agility and innovation, anchored in strategic alignment, enable firms not merely to respond to disruption, but to reshape competitive landscapes. PepsiCo's journey exemplifies theory translated into strategic practice.

Conclusion

This study underscores the imperative for leadership attuned to strategic change, particularly in digital transformation. It reinforces the need for organization-wide digital initiatives that support core functions, enhancing operational efficiency, investing in human capital, nurturing agile management, and sustaining growth. Competitiveness and market

responsiveness are achieved through integrated digital initiatives, data-driven strategy formulation, and a culture of continuous improvement and innovation. Crucially, firms must balance innovation with social and environmental responsibility to sustain stakeholder trust and brand equity. Companies adopting these strategies will thrive amid disruption and secure enduring growth.

Recommendations

Organisations seeking digital-era resilience must explicitly design the inter-relationship of leadership, agility, and innovation into a strategically aligned system. Drawing on literature synthesis and PepsiCo's experience, the following propositions are offered:

- i. Prioritize leadership development that cultivate leaders who blend digital acumen with long-term vision, fostering experimenting, data-driven decisions, and empowered teams.
- ii. Institutionalize agility as a core competence with embedded environmental scanning, rapid decision-making, and resource fluidity into routines.
- iii. Embed innovation as a continuous process in this context, digital spending alone is insufficient; it must be coupled with a culture that rewards learning and cross-functional knowledge sharing.
- iv. Ensure strategic alignment by avoiding siloed digital projects and aligning initiatives with core strategic objectives.
- v. Expand Research and Practice Horizons. Both scholars and practitioners should document successes and failures to build organisational memory and inform future action. Future studies should adopt longitudinal, multi-case designs across SMEs and emerging markets to capture the temporal dynamics and contextual nuances of digital transformation.

In sum, competitive advantage through disruption is not delivered by technology per se, but by leadership that drives change, agility that operationalizes it, and innovation that translates it into value all steered by strategic alignment. Organisations that weave these elements into a cohesive system will not merely survive disruption; they will author new rules of competition within their industries.

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