# E-Commerce and Digital Markets: A Literature Review on Opportunities and Challenges of Change Management in Information Technology

# Yurika Narulita Maulidya<sup>1\*</sup>

#### **Abstract**

This article aims to empirically describe change management in the digital era from the perspective of organizational opportunities and challenges. The method employed is a literature study using a qualitative approach. The researcher collected relevant scientific articles from ScienceDirect and Google Scholar using the keywords change management, digital era, challenges, and opportunities to support the conceptual analysis. The findings indicate that factors influencing change include knowledge, skills, trust among organizational members, organizational and the environment. The challenges in implementing change generally stem from resistance, which can be categorized into individual and organizational resistance. Individual resistance includes habits, the need for security, economic factors, fear of the unknown, and perception. Overall, this study emphasizes that managing change in the digital era requires adaptability, strategic use of information technology, and leadership capable of aligning organizational transformation with digital opportunities.

## Keywords

Change management, digital era, e-commerce, organizational adaptation, literature review

#### Article History

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<sup>1\*</sup> Universitas Bina Darama Palembang, Indonesia, Corresponding email: |yurikanm@gmail.com|

#### Introduction

The digital era has brought profound transformations across all dimensions of human and organizational life—from patterns of thinking and decision-making to work systems, social interactions, and operational management (Dwidienawati et al., 2021). Economists and futurists had long anticipated this evolution, predicting that "the world would eventually be in the palm of human hands." This vision materialized with the onset of widespread digitalization and disruptive innovation in the early 2000s, further accelerated by the COVID-19 pandemic (Prasetyono et al., 2022). The pandemic acted as a global catalyst for digital transformation, forcing organizations to adopt technology not merely as a support tool but as the foundation for survival and competitiveness in an interconnected world.

The global health crisis revealed how digital disruption fundamentally reshaped human behavior, economic systems, and organizational structures. The rapid proliferation of the internet, mobile devices, and cloud-based platforms has redefined daily life—transforming how individuals learn, shop, communicate, and work (Watajdid et al., 2012). Traditional organizations faced unprecedented pressure to pivot toward digital operations to maintain relevance and continuity. This shift underscores the urgent need for adaptive strategies that enable firms to respond effectively to external shocks, technological change, and evolving consumer expectations.

As organizations embrace digital transformation, effective change management becomes a critical determinant of success. Change management involves structured processes designed to guide individuals, teams, and institutions through transitions toward new technologies, structures, and work cultures (Robbins & Counter, 2010). Without systematic change management, even the most advanced technological implementations can fail due to human resistance, cultural misalignment, or inadequate training. Robbins (2015) emphasizes that legacy institutions must abandon outdated systems and cultivate agile, data-driven, and customer-centered practices to remain competitive in digital markets. Thus, technological adaptation must be accompanied by deliberate human and managerial transformation.

Within this landscape, e-commerce and digital markets have emerged as dominant manifestations of the digital economy. E-commerce integrates digital platforms with logistics, finance, and data analytics to facilitate online transactions and expand market reach. Beyond merely enabling sales, e-commerce serves as a driver of innovation, entrepreneurship, and value creation within digital ecosystems. However, its rapid evolution introduces new managerial complexities, including data security, privacy regulation, consumer trust, and technological integration across diverse business units (Turban et al., 2023). The pace of technological change demands not only digital infrastructure but also resilient leadership capable of steering continuous adaptation.

The intersection of information technology (IT), e-commerce, and change management presents both opportunities and challenges. On one hand, IT enables efficiency, scalability, and analytical precision—allowing organizations to make informed, data-driven decisions (Mascagni et al., 2021; Van Wart et al., 2017). On the other hand, organizations must contend with challenges such as technological resistance, cybersecurity threats, high implementation costs, and skill gaps among employees. Successful IT-driven transformation therefore requires balancing innovation with governance, agility with control, and digital ambition with human

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adaptability. Understanding these dynamics is crucial for developing sustainable models of change management that align with the evolving demands of digital commerce.

This study aims to conduct a literature-based analysis of the opportunities and challenges associated with change management in the context of e-commerce and digital markets. By synthesizing existing theoretical and empirical studies, this paper seeks to identify best practices, barriers, and strategic approaches that influence successful IT-based transformation. The study contributes to academic and managerial discourse by linking change management theory with the operational realities of digital business ecosystems. It also offers a conceptual framework for understanding how leadership, organizational culture, and technological infrastructure interact in shaping effective digital transformation. Ultimately, this research underscores that achieving success in e-commerce and digital markets requires not only technological investment but also strategic change management rooted in ethical leadership, continuous learning, and innovation-oriented thinking.

# Methodology

This research adopts a qualitative literature review approach to examine the opportunities and challenges of change management within the context of e-commerce and digital markets. The qualitative literature review method enables a conceptual synthesis of diverse scholarly perspectives to develop a holistic understanding of how change management frameworks are applied in information technology (IT)-driven business environments. This approach emphasizes analytical interpretation rather than statistical generalization, aligning with the study's objective of exploring conceptual linkages and managerial implications in digital transformation (Snyder, 2019).

## **Data Sources and Search Strategy**

Data and theoretical foundations were obtained from peer-reviewed journals, conference proceedings, and e-books related to change management and digital transformation. The search process was conducted using academic databases such as ScienceDirect, Scopus, Emerald Insight, and Google Scholar, which were selected for their high-quality, peer-reviewed content.

To ensure systematic coverage, the following keyword combinations were employed:

Search results were filtered by publication year (2015–2024) to capture the most recent developments in digital change management research. Only English-language sources with full-text availability were included.

<sup>&</sup>quot;change management" AND "digital transformation";

<sup>&</sup>quot;information technology" AND "organizational adaptation";

<sup>&</sup>quot;e-commerce" AND "challenges";

<sup>&</sup>quot;digital era" AND "opportunities."

# **Selection and Screening Process**

The review followed a systematic literature review (SLR) protocol inspired by the Preferred Reporting Items for Systematic Reviews and Meta-Analyses (PRISMA) framework. The procedure comprised four major stages:

- 1. Identification: 74 documents were initially collected from database searches.
- 2. Screening: Duplicates and non-relevant studies were removed based on titles and abstracts.
- 3. Eligibility: Full-text articles were evaluated against inclusion criteria (relevance, conceptual clarity, methodological rigor).
- 4. Inclusion: 18 final studies were retained for detailed analysis.

These selected studies encompassed three thematic domains: (1) digital transformation and innovation, (2) organizational change management, and (3) information technology adaptation in e-commerce ecosystems.

## **Analytical Technique**

Data were analyzed using qualitative descriptive analysis guided by the stages of data reduction, data display, and conclusion drawing/verification (Prasetyono et al., 2019).

- Data reduction involved summarizing key findings, concepts, and frameworks from each article.
- Data display organized results into thematic matrices to identify patterns and relationships across studies.
- Verification involved iterative comparison and synthesis to ensure consistency and conceptual accuracy.
- Through this process, the researcher derived key themes representing opportunities (e.g., innovation, efficiency, agility) and challenges (e.g., resistance, digital skill gaps, security concerns) in IT-based change management.

# Validity, Reliability, and Ethical Considerations

To enhance validity and reliability, triangulation was employed by comparing conceptual insights from multiple authors and publication types. The analytical framework was cross-checked with two academic experts in management and information systems to ensure interrater consistency and theoretical soundness. The inclusion of diverse data sources—conceptual papers, empirical studies, and meta-analyses—further strengthened the credibility of the findings.

All reviewed materials were obtained from publicly accessible scholarly databases, ensuring compliance with academic integrity and ethical research standards. Proper citation and acknowledgment were maintained for all referenced works.

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# Results and Discussion Factors Influencing Organizational Change

Effective change requires individual readiness and behavioral adaptability. Key influencing factors include knowledge, skills, trust, and organizational environment (Putri et al., 2022).

- 1. Knowledge enhances adaptability by enabling individuals to understand and adopt new practices.
- 2. Skills both physical and non-physical determine how efficiently individuals implement new systems.
- 3. Trust affects how employees internalize new knowledge and apply it in practice.
- 4. Organizational environment, including leadership and incentives, shapes behavioral responses and supports the effectiveness of transformation initiatives.

# Utilization of Information Technology in Organizations

The implementation of information technology (IT) significantly influences organizational productivity, efficiency, and culture (Santosa & Ringgo, 2017). IT integration helps organizations improve data processing, decision-making, and competitiveness (Van Wart et al., 2017).

The strategic use of IT can be classified into three dimensions (Sani & Wiliani, 2019):

- 1. Operational Efficiency IT reduces time and costs.
- 2. Managerial Effectiveness IT facilitates data accessibility and progress monitoring.
- 3. Strategic Improvement IT strengthens competitive advantage through innovation and adaptability.

To ensure long-term success, organizations must continuously train employees, enhance digital literacy, and integrate human resources with evolving technologies (Ochieng et al., 2023).

## Challenges in Managing Change

Resistance to change is a natural organizational phenomenon (Dewi & Kurniawan, 2019). It may be explicit (e.g., strikes, protests) or implicit (e.g., reduced motivation, absenteeism). Resistance arises from individual or organizational sources:

- 1. Individual Resistance: Driven by habits, the need for security, economic concerns, fear of the unknown, and negative perceptions.
- 2. Organizational Resistance: Rooted in structural inertia, group norms, power relationships, and resource allocation (Pertiwi & Atmaja, 2021).

The digital era intensifies these challenges. Organizations must move from traditional hierarchical models toward flatter, agile, and innovation-driven structures (Rahmadyah & Aslami, 2022). Successful change management thus requires visionary leadership, adaptability, and continuous learning.

#### **Conclusion and Recommendations**

The digital era presents both opportunities and challenges for organizational change management. Factors influencing change include knowledge, skills, trust, and environmental conditions. Information technology serves as a catalyst for efficiency, effectiveness, and ISSN: 2721-1193 https://iitss.or.id/ojs/index.php/jiksi/index

strategic improvement. However, digital transformation also triggers resistance—both individual and organizational—that must be addressed through leadership, communication, and adaptive strategies. Organizations that embrace technological change proactively will sustain competitive advantage and maintain long-term relevance in a rapidly evolving digital economy.

#### **Disclosure Statement**

No potential conflict of interest was reported by the authors.

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# **Biographical Notes**

YURIKA NARULITA MAULIDYA is a graduate student at the Master of Management Program, Universitas Bina Darma, Palembang, Indonesia. Her research interests include organizational change management, digital transformation, and strategic information systems.