

Article Evolutionary Logic and Theoretical Construction of Real Estate Marketing Strategies under Digital Transformation

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Abstract: This paper examines the evolutionary logic of real estate marketing strategies under the backdrop of digital transformation. The study investigates how technological advancements, including big data, artificial intelligence (AI), virtual reality (VR), and the Internet of Things (IoT), are reshaping traditional marketing models in the real estate sector. By transitioning from product-centric approaches to customer-centric strategies, real estate enterprises are adopting innovative digital tools to enhance consumer engagement, personalize marketing efforts, and optimize business operations. Through a review of existing literature and a theoretical framework based on dynamic capabilities and service-dominant logic, the paper develops a conceptual model to guide real estate marketing strategies in the digital age. Key findings suggest that digital transformation is a crucial driver of strategic evolution in real estate marketing, with significant implications for both academic research and practical applications. The study also identifies several areas for future research, including the role of emerging technologies, consumer behavior, and organizational challenges in digital marketing adoption.

Keywords: real estate marketing; digital transformation; big data; customer-centric strategies; strategic evolution

1. Introduction

1.1. Research Background: Digitalization in the Real Estate Industry

In recent years, digital transformation has emerged as a major force reshaping industries across the globe, and the real estate sector is no exception. Traditionally, real estate transactions were heavily dependent on personal networks, physical interactions, and offline marketing channels such as brochures, newspapers, and open houses. However, with the rapid advancement of technologies such as big data analytics, artificial intelligence, virtual reality, and blockchain, the landscape of real estate marketing has experienced a fundamental shift [1].

Digital platforms now enable real estate firms to reach wider audiences, provide immersive property experiences, and deliver highly personalized marketing messages based on consumer data. Technologies such as AI-driven recommendation engines, 3D virtual tours, and predictive analytics allow firms to better understand customer needs and preferences, thereby improving engagement and conversion rates [2]. Moreover, social media platforms and online listing services have significantly shortened the information asymmetry between sellers and buyers, enhancing transparency and trust in the market.

Against this backdrop, marketing strategies in the real estate industry have moved beyond traditional product-centric approaches. Companies are increasingly adopting customer-centric and data-driven models that prioritize experience, personalization, and value co-creation. The ongoing digitalization has not only transformed the operational aspects of real estate marketing but has also triggered a deeper strategic rethinking about how value is delivered and perceived in the digital economy. Understanding the nature

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and logic of this strategic evolution has become crucial for real estate firms aiming to achieve sustainable competitive advantage in an increasingly digitalized environment [3].

1.2. Research Questions and Objectives

This study seeks to explore how digital transformation influences the evolution of real estate marketing strategies and to build a theoretical framework that captures this dynamic process. Specifically, it addresses the following key research questions:

- 1) How have traditional real estate marketing strategies evolved in response to digitalization?
- 2) What are the underlying mechanisms driving the strategic transformation?
- 3) How can a theoretical model be constructed to explain and guide the marketing practices of real estate firms in the digital era?

To answer these questions, the objectives of this research are defined as follows:

First, to systematically review and analyze the transition of marketing strategies from traditional to digital-oriented models within the real estate sector.

Second, to identify the major technological, organizational, and consumer-driven factors that have shaped and continue to drive this transformation.

Third, to construct a comprehensive conceptual framework that integrates key theoretical perspectives — such as dynamic capabilities theory and service-dominant logic to explain the evolutionary logic of real estate marketing strategies in the context of digital transformation [4].

By achieving these objectives, this paper aims to provide both theoretical insights and practical guidance for academics and practitioners interested in the intersection of digital transformation and real estate marketing.

2. Digital Transformation and its Impact on Real Estate Marketing

2.1. Concept and Scope of Digital Transformation

Digital transformation refers to the integration of digital technologies into all areas of business operations, fundamentally altering how organizations create value, engage with customers, and compete in the marketplace [5]. In the real estate industry, digital transformation transcends the mere adoption of online marketing tools; it signifies a profound shift toward data-driven decision-making, customer-centric service models, and the reconfiguration of traditional marketing and sales processes [6].

The scope of digital transformation in real estate includes the digitalization of property search and listing services, virtual and augmented property experiences, predictive customer analytics, and the use of smart technologies to enhance property management and customer relationships. It not only affects how real estate products are marketed but also reshapes the entire customer journey, from initial awareness to post-sale engagement.

2.2. Key Technologies Shaping Real Estate Marketing

A variety of emerging technologies have played pivotal roles in transforming real estate marketing practices. As shown in Table 1, technologies such as big data analytics, artificial intelligence (AI), virtual and augmented reality (VR/AR), and the Internet of Things (IoT) contribute to different aspects of the marketing process, including customer segmentation, personalized communication, immersive property experiences, and real-time data collection.

Table 1. Key	Technologies	Transforming Real	Estate Marketing.

Technology	Application in Real Estate Marketing	Impact
Pia Data Analytica	Customer segmentation, trend fore-	Enhanced targeting and
Big Data Analytics	casting	predictive insights

Artificial Intelligence	Chatbots, recommendation systems,	Personalized communi-
(AI)	predictive lead scoring	cation and automation
Virtual and Augmented	Virtual property tours, augmented	Immersive customer ex-
Reality (VR/AR)	property visualization	periences
Internet of Things (IoT)	Smart property management, real-	Real-time data for mar-
Internet of Things (IoT)	time monitoring of property features	keting and sales

These technologies enable real estate firms to move beyond mass marketing strategies and adopt more targeted, efficient, and engaging approaches. They also allow firms to anticipate customer needs, create more meaningful interactions, and foster long-term customer relationships in ways that were not possible with traditional marketing techniques [7].

By leveraging these technologies, real estate companies can offer more interactive and transparent experiences, improve customer satisfaction, and ultimately drive higher conversion rates.

2.3. Shifts in Consumer Behavior and Experience Expectations

The digital age has brought about significant changes in consumer behavior, particularly in how customers search for, evaluate, and purchase real estate properties. Modern consumers demand greater transparency, instant access to information, personalized experiences, and seamless digital interactions.

Customers now expect to browse properties online, take virtual tours, receive instant responses through AI-powered chatbots, and access detailed information about neighborhoods and property histories with minimal effort. Additionally, there is a growing preference for self-service options, mobile accessibility, and the ability to complete transactions digitally without the need for extensive face-to-face interactions.

These shifting expectations require real estate firms to not only adopt new technologies but also to rethink the design of their customer journeys, placing greater emphasis on convenience, personalization, and value co-creation [8]. Companies that can align their marketing strategies with these evolving consumer expectations are better positioned to achieve sustainable growth and competitive advantage in the digital marketplace.

3. Evolutionary Logic of Real Estate Marketing Strategies

3.1. Traditional Real Estate Marketing Models: A Review

Historically, real estate marketing has been predominantly product-centric, focusing on promoting the tangible attributes of properties such as location, size, price, and amenities. Traditional marketing models relied heavily on mass communication channels like print media, outdoor advertising, and physical open house events to attract potential buyers.

The interaction between sellers and buyers was largely unidirectional, with limited feedback mechanisms and minimal personalization. The role of real estate agents was critical in bridging information gaps, acting as the primary source of property knowledge and market insights for consumers [9].

Moreover, marketing strategies emphasized transaction-oriented relationships rather than long-term engagement. Success was often measured by the volume of sales rather than customer satisfaction or loyalty. As a result, the marketing approach tended to be standardized, offering little differentiation based on individual customer preferences [10].

3.2. Drivers of Strategic Evolution: From Product-Centric to Customer-Centric Approaches

Several forces have driven the strategic shift from traditional product-centric marketing to modern customer-centric models in the real estate industry. First, the availability of digital platforms has democratized access to information, empowering consumers to independently research properties and market trends. Second, technological advancements such as data analytics and AI have enabled firms to gather and interpret vast amounts of customer data, allowing for highly personalized marketing strategies [11].

Third, evolving consumer expectations — characterized by demands for transparency, personalization, and immediacy — have pressured real estate firms to adopt more customer-focused approaches. Additionally, increased market competition has forced companies to differentiate themselves not merely by the properties they offer but by the experiences they create for customers.

These drivers collectively necessitate a paradigm shift wherein customer needs, preferences, and experiences form the core of marketing strategy design and execution.

3.3. Patterns of Strategic Change under Digital Context

The strategic transformation of real estate marketing under digital influence follows identifiable patterns. As shown in Table 2, marketing strategies have evolved across multiple dimensions, including communication methods, value propositions, customer engagement models, and performance metrics.

Firms are transitioning from mass communication to personalized interaction, from emphasizing property features to focusing on customer experience, and from viewing transactions as endpoints to nurturing long-term relationships.

Dimension	Traditional Approach	Digital-Era Approach	
Communication	Mass media, unidirectional mes-	Personalized, interactive digital	
	saging	channels	
Value Proposition	Property features and pricing fo-	Customer experience and value	
	cus	creation	
Customer Engage-	One-time transactions	Long-term relationship building	
ment	One-time transactions		
Performance Met-	Sales volume	Customer satisfaction and loyalty	
rics	Sales volume		

Table 2. Strategic Changes in Real Estate Marketing under Digital Transformation.

By understanding these patterns, real estate firms can more effectively realign their marketing strategies to meet the demands of the digital age. A dynamic, customer-centric approach not only enhances competitiveness but also builds brand trust and loyalty, positioning firms for sustained success in an increasingly volatile market environment.

4. Theoretical Framework Construction

4.1. Theoretical Foundations: Dynamic Capabilities and Service-Dominant Logic

The development of marketing strategies in the context of digital transformation in real estate is rooted in two key theoretical foundations: Dynamic Capabilities Theory and Service-Dominant (S-D) Logic. These theories provide the lens through which we can understand the evolution of marketing practices in response to digital disruption.

4.1.1. Dynamic Capabilities Theory

Dynamic capabilities theory emphasizes a firm's ability to reconfigure its resources and capabilities to address changes in its environment. In the digital era, this theory becomes particularly relevant as firms must continuously adapt to rapid technological advancements and shifting consumer behaviors. For real estate firms, dynamic capabilities refer to the ability to not only integrate new digital tools but also to adapt and innovate in their marketing processes. Key capabilities such as data analytics, customer relationship management, and real-time responsiveness are essential for firms to remain competitive. In the case of real estate marketing, this theory suggests that firms should invest in flexible marketing strategies, which are capable of quickly adjusting to new technologies and consumer expectations. This includes adopting advanced data analytics to identify emerging trends and leveraging digital tools to create personalized marketing campaigns.

4.1.2. Service-Dominant Logic

Service-Dominant (S-D) Logic, offers a shift in perspective from traditional goodsdominant logic. It argues that value is co-created through interactions between service providers and customers rather than embedded in the product itself. In the context of real estate marketing, S-D Logic emphasizes the importance of engaging customers in the value creation process, where both the firm and the customer contribute to the perceived value.

This shift aligns with the digital transformation in the real estate sector, where firms must move beyond transactional relationships and focus on ongoing engagement with consumers. For example, providing personalized property experiences, responsive customer service, and interactive digital tools (such as virtual tours and AI-driven property recommendations) all reflect the principles of S-D Logic.

By integrating these two theories, real estate firms can better understand how to leverage digital technologies to create and deliver value in a customer-centric manner, ultimately leading to improved customer satisfaction and loyalty.

4.2. Development of a Conceptual Model for Digital Marketing in Real Estate

Based on the previous theoretical foundations, we propose a conceptual model for digital marketing in real estate, integrating dynamic capabilities and service-dominant logic. This model highlights how digital transformation reshapes marketing strategies.

It conceptualizes digital marketing capability as a key factor enabling real estate firms to leverage digital technologies for personalized, engaging customer experiences. The model also emphasizes customer engagement and co-creation of value, suggesting that marketing should focus on long-term relationships over one-time transactions.

Key Components:

- 1) Technological Resources: Digital tools like AI-based recommendation systems, big data analytics, AR/VR for immersive experiences, and chatbots for customer service.
- 2) Digital Marketing Capabilities: A firm's ability to use technology to meet customer needs, personalize marketing, and offer seamless digital interfaces for property viewing and transactions.
- 3) Customer Value Co-Creation: Value is co-created through interaction, where customers actively participate in decision-making via customized recommendations and real-time engagement.
- 4) Performance Outcomes: Outcomes like customer satisfaction, loyalty, brand equity, and sales growth, reflecting the success of a customer-centric approach enabled by digital transformation.

The model suggests that digital marketing capability mediates the relationship between technological resources and customer value co-creation, leading to improved marketing performance.

4.3. Explanation of Model Components and Hypothetical Relationships

The proposed conceptual model consists of several interconnected components, each representing a key element in the digital transformation of real estate marketing. The relationships among these components reflect how digital technologies can be leveraged to enhance customer value and improve marketing outcomes.

4.3.1. Technological Resources

At the core of the digital marketing strategy are technological resources. These resources include big data analytics, artificial intelligence (AI), virtual/augmented reality (VR/AR), and smart devices (IoT) that enable real-time data collection, personalized customer experiences, and immersive property tours. The availability of these technologies significantly enhances a firm's ability to respond to customer needs and market trends.

4.3.2. Digital Marketing Capabilities

Building upon the technological resources, real estate firms need the capability to integrate these tools into their marketing processes effectively. Digital marketing capabilities include customer segmentation, targeted communication, personalized property recommendations, and automated services. Firms with strong digital marketing capabilities are better able to engage customers in meaningful ways, anticipate their needs, and tailor marketing messages that resonate with individual preferences.

4.3.3. Customer Value Co-Creation

This component reflects the collaborative process between real estate firms and customers. Digital technologies enable customers to interact with firms in various ways, from virtual property viewings to participating in decision-making through feedback loops. By actively engaging customers in the marketing process, firms can co-create value, which enhances the overall customer experience and builds trust. This continuous interaction fosters a deeper connection between the firm and the customer, leading to greater loyalty and satisfaction.

4.3.4. Performance Outcomes

Finally, the model suggests that the ultimate success of the marketing strategy is reflected in performance outcomes such as customer satisfaction, brand loyalty, and increased sales. Real estate firms that can effectively integrate digital technologies into their marketing strategies and co-create value with customers are more likely to achieve superior performance outcomes.

4.3.5. Hypothetical Relationships

- The following hypothetical relationships are proposed within the model:
- 1) Technological resources positively influence the development of digital marketing capabilities.
- 2) Digital marketing capabilities facilitate customer value co-creation by enabling personalized and engaging interactions.
- 3) Customer value co-creation leads to improved performance outcomes, such as higher customer satisfaction, loyalty, and sales growth.

These relationships highlight how real estate firms can use digital technologies not only to enhance their marketing processes but also to create deeper and more meaningful relationships with their customers, ultimately driving long-term success.

5. Practical Implications and Future Trends

5.1. Strategic Recommendations for Real Estate Enterprises

To succeed in the digital age, real estate firms must adopt a comprehensive strategy that integrates advanced technologies, enhances customer engagement, and creates longterm value. This involves leveraging big data, AI, and machine learning to collect and analyze customer data, enabling personalized marketing strategies that improve engagement and conversion rates. Firms should also shift from product-centric to customer-centric marketing by prioritizing customer experiences, implementing CRM systems, and using real-time communication platforms like chatbots. Investing in immersive technologies such as VR and AR can enhance customer experiences by offering remote property tours and visualizing potential modifications, especially in the post-pandemic world. Finally, collaborating with tech startups, real estate platforms, and other ecosystem players fosters innovation, provides access to cutting-edge technologies, and helps firms stay competitive.

5.2. Anticipated Technological Disruptions and Market Transformations

The real estate industry is undergoing rapid transformation driven by emerging technologies. Blockchain and smart contracts are expected to revolutionize property transactions by enhancing transparency, security, and efficiency, significantly reducing transaction times and fraud risks. AI-powered platforms will continue to reshape marketing and sales processes by predicting trends, personalizing property recommendations, and facilitating virtual interactions, while future AI applications may also impact property design and construction. The integration of IoT will transform property management, enabling smart homes and buildings that optimize energy use, security, and maintenance. Additionally, augmented reality (AR) will enhance virtual showings by offering highly interactive and personalized experiences, helping buyers visualize customized properties before purchase. Together, these technologies will redefine how real estate is marketed, managed, and transacted.

5.3. Directions for Future Research and Theoretical Expansion

While considerable progress has been made in understanding digital transformation's impact on real estate marketing, several important areas warrant further exploration. Future research could investigate how AI-driven recommendations influence consumer decision-making and purchasing behavior, providing insights into the psychology behind AI interactions. The integration of blockchain with real estate marketing also presents opportunities to enhance transparency and trust in client interactions. Additionally, the broader effects of VR on consumer perception and brand engagement need deeper study, particularly its role in influencing remote purchasing decisions. Long-term impacts of digital marketing strategies on customer loyalty remain underexplored, suggesting the need for longitudinal studies examining retention patterns. Finally, as sustainability becomes increasingly important, future research should address how digital tools can promote environmentally responsible practices in real estate development and marketing, such as advancing green buildings and energy-efficient solutions through digital platforms.

6. Conclusion

This study examines the evolution of real estate marketing strategies in the context of digital transformation. Key findings highlight that digitalization drives strategic change, replacing traditional methods with data-driven, customer-centric approaches. Technologies like AI, big data, and VR are pivotal in creating personalized marketing strategies, while immersive tools such as AR/VR revolutionize property showings. A notable shift from product-centric to customer-centric models is observed, emphasizing long-term relationships over immediate sales. The study contributes both theoretically and practically: it integrates digital transformation with marketing models, offering a framework for firms to adapt strategies, and provides actionable insights for improving marketing operations through data-driven decisions and customer engagement. However, the research has limitations, including a focus on specific markets and a lack of longitudinal data. Future studies could explore cross-sector comparisons, organizational challenges, and consumer perspectives, while expanding the theoretical model to include factors like leadership and employee skills. Such research would enhance the understanding of how digital transformation shapes marketing strategies over time, helping firms stay competitive in the evolving market.

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