

MECHANISMS FOR THE EFFECTIVE ORGANIZATION OF TRADE PROCESSES IN THE FRUIT AND VEGETABLE BUSINESS

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Abstract. This article will scientifically analyze the mechanisms for the development of market marketing of fruit and vegetable products, as well as the management of trade infrastructure. In the course of the study, the specifics of the industry, the role and importance of marketing strategies in meeting consumer demand are highlighted. The study also examined the economic impact of modernizing trade infrastructure, improving the logistics system, and introducing digital technologies. Finally, innovative approaches and practical recommendations were put forward to take the management of fruit and vegetable trade to a new level.

Keywords. Fruit and vegetable products, marketing, trade infrastructure, management mechanisms, digital technologies, efficiency.

INTRODUCTION

In the contemporary economic landscape of Uzbekistan, the cultivation, post-harvest storage, processing, and strategic commercialization of horticultural products have emerged as cornerstones of national economic policy. This focus is not merely sectoral but a strategic response to global food security challenges. The legal framework for this transformation is anchored in the "Strategy for the Development of Agriculture of the Republic of Uzbekistan for 2020–2030," alongside pivotal decrees such as PD–5853 (2019) on reforming state management in agriculture and the "New Uzbekistan Development Strategy for 2022–2026" (PD–60). These documents prioritize the transition from raw material production to a high-value-added export model, emphasizing the modernization of trade infrastructure to meet international quality benchmarks.

The structural reforms have yielded tangible socio-economic dividends. The large-scale establishment of agro-clusters and integrated logistics hubs has increased the national cold storage capacity to 1.8 million tons, effectively reducing post-harvest losses which were historically a bottleneck for the industry. Furthermore, the systematic integration of international certification protocols—notably Global G.A.P., Organic, and Halal—has enhanced the "Made in Uzbekistan" brand's credibility. By the end of 2024, the fruit and vegetable export volume surpassed the \$1.5 billion threshold, diversifying from traditional markets like Russia and Kazakhstan to high-premium markets in the UAE and the European Union.

Despite these milestones, the sector faces a critical juncture. The shift from production-oriented to market-oriented agriculture necessitates a sophisticated leap in marketing intelligence and trade infrastructure management. There is an urgent need to integrate AgTech (Agricultural Technology) and digital marketing tools to optimize supply chain transparency and responsiveness. The relevance of this study is underscored by the gap between current production capacities and the evolving demands of the global consumer market. Consequently, this research aims to develop scientifically grounded mechanisms to refine marketing strategies and enhance the management efficiency of the trade infrastructure, ensuring the long-term sustainability and competitiveness of Uzbekistan's horticultural sector.

LITERATURE REVIEW

The scholarly discourse on entrepreneurship within the Republic of Uzbekistan emphasizes its multifaceted nature, transcending beyond mere profit-seeking. According to A. Olmasov and M. Sharifkhodjaev (2020), entrepreneurship is defined as a synthesis of creative initiative and economic activity aimed at income generation. They argue that if entrepreneurial dynamics are not systematically stimulated, achieving sustainable macroeconomic growth remains elusive. Crucially, their research shifts the focus from quantitative expansion to the qualitative attributes of entrepreneurship, suggesting that the intellectual and innovative capacity of the entrepreneur is the primary engine of value creation in a transitional economy.

In parallel, global marketing scholarship provides diverse interpretations of trade marketing and its organizational integration. Kotler and Keller (2016) posit that trade marketing can function as a formal organizational pillar—either as an independent department or integrated within the sales and marketing hierarchy. This structural formalization ensures that promotional activities are aligned with broader corporate objectives.

Conversely, Baker (2014) highlights a more flexible approach, where trade marketing operates through indirect methodologies or direct sales mechanisms, depending on the market's maturity and the firm's strategic orientation. This inherent universality and adaptability allow trade marketing to be customized to the specific requirements of various economic entities, ranging from small-scale horticultural producers to large-scale retail chains.

The integration of local entrepreneurial creative initiatives with international trade marketing frameworks creates a robust mechanism for market penetration. While Olmasov and Sharifkhodjaev emphasize the internal drive (creativity and growth), Kotler and Baker provide the external tools (organizational structure and market adaptation) necessary for converting entrepreneurial potential into market efficiency (Table 1).

table 1

Definitions of trade marketing by various scholars

Author(s)	Core Definition
A. Olmasov & M. Sharifkhodjaev	An extension of entrepreneurial creativity aimed at ensuring continuous economic growth and qualitative value addition.
Philip Kotler & Kevin L. Keller	A formal organizational function integrated within the company's structure (Marketing or Sales departments).
Michael J. Baker	A flexible set of direct and indirect methodologies used to adapt to specific market environments and consumer needs.
Modern Synthesis (Integrated View)	A strategic management mechanism that synchronizes the interests of producers, distributors, and consumers through digital and logistical infrastructure.

METHODOLOGY

To evaluate these dynamics, this study employs a multidimensional methodological approach. The framework is built upon the synchronization of agrarian economic growth with demographic trends, ensuring that production volumes align with the evolving consumption demands of a growing population.

Strategic Balancing and Specialization: Analyzing regional production strengths to optimize resource allocation.

Statistical and Factorial Analysis: Utilizing empirical data from the National Statistics Agency (2020–2024) to assess the primary factors influencing agribusiness profitability.

Innovation-Driven Efficiency: Exploring the integration of AgTech and digital management as catalysts for operational performance.

Competitiveness Modeling: A comparative analysis of price-quality parity and international certification standards (Global G.A.P., Halal) to enhance the competitive advantage of Uzbek products in global markets.

This comprehensive methodology ensures a holistic evaluation of the sector, shifting from descriptive analysis to a predictive optimization model for modernizing trade infrastructure and maximizing marketing efficiency.

RESULTS

The agricultural sector in Uzbekistan plays a pivotal role in meeting the population's demand for food and agricultural products while significantly enhancing the nation's export potential. In recent years, particular emphasis has been placed on incentivizing and developing specialized farming enterprises. Notably, the "Development Strategy of New Uzbekistan for 2022–2026" identifies the radical increase of agricultural efficiency and diversification as a top priority. This includes advancing the sector through the deep processing of products based on cluster principles, ensuring food security, and improving the living standards in rural areas. Furthermore, the strategy aims to create necessary conditions to double the income of farmers and achieve a minimum annual growth rate of 5% in the agricultural sector.

table 1

Agricultural Production Overview

Indicator	2020–2021	2022–2024	2025
Primary Focus	Food Security & Stability	Cluster-based Processing	Digitalization & Efficiency
Export Volume	~\$0.9–1.1 Billion	\$1.5+ Billion	Target: \$2.0 Billion
Storage Capacity	Initial Expansion	1.8 Million Tons	2.0+ Million Tons
Growth Rate	2.5% – 3.2%	4.1% – 4.8%	5.0% +

The data presented in the summary table reflects a strategic shift in Uzbekistan's agricultural paradigm, moving from a production-centric model to a value-chain-driven approach. The analysis reveals three distinct phases of development:

1. The Recovery and Stability Phase (2020–2021): During the initial years of this period, the focus was primarily on ensuring domestic food security amidst global supply chain disruptions. With an export volume hovering around \$0.9–1.1 billion and a growth rate of 2.5%–3.2%, the sector demonstrated resilience. The methodology at this stage was largely focused on extensive growth and maintaining the stability of the consumer market.

2. The Modernization and Cluster Phase (2022–2024): A significant qualitative leap is observed during this stage. The implementation of the "New Uzbekistan Development Strategy" catalyzed the transition to cluster-based production. Key observations include:

- Infrastructure Synergy: The expansion of storage capacity to 1.8 million tons acted as a multiplier for export efficiency. By reducing post-harvest losses, the sector was able to sustain an export volume of over \$1.5 billion.

- Quality Standards: The shift from volume to value is evident in the adoption of international certifications (Global G.A.P., Halal), which allowed Uzbek products to penetrate premium markets in the EU and Middle East, moving away from price-sensitive traditional markets.

- Growth Acceleration: The annual growth rate reached 4.1%–4.8%, signaling that the diversification of crops and deep processing started yielding economic dividends.

3. The Digitalization and Sustainability Outlook (2025): The projections for 2025 suggest a target export volume of \$2.0 billion, supported by a growth rate exceeding 5.0%. This ambitious goal is underpinned by two emerging factors:

- Technological Integration: The focus is shifting toward E-Agriculture and precision farming. This is no longer an option but a necessity to mitigate climate risks and water scarcity.

- Vertical Integration: The 2025 strategy emphasizes the "field-to-table" approach, where trade infrastructure is not just a logistical tool but a data-driven management mechanism that synchronizes production with real-time global demand.

In summary, the transition from 2020 to 2025 illustrates a move from "quantity-driven agriculture" to "intelligence-driven agribusiness." The correlation between increased storage capacity and export growth confirms that trade infrastructure management is the primary driver of competitiveness in the fruit and vegetable sector. The success of the 2025 targets will largely depend on the continued integration of digital marketing tools and the further specialization of farming enterprises.

CONCLUSION

Ensuring the sustainable commercialization of agricultural output is intrinsically linked to the efficient organization of organic trade processes. This requires a comprehensive multi-layered approach that synchronizes domestic and foreign market intelligence with the active collaboration of marketing channel participants. The transition toward this model necessitates the deep integration of modern AgTech and market-driven logistics.

To maximize the competitiveness of horticultural products, the following strategic pillars must be reinforced:

- Supply Chain Optimization: Guaranteeing a continuous supply of raw materials and resources to rural enterprises while developing robust communication and logistical infrastructures.

- Agro-Logistical Integration: The establishment of specialized agro-logistics centers and the adoption of digital marketing platforms are critical to aligning Uzbekistan's supply with global trends.
- Quality and Standardization: Expanding export potential is directly dependent on the rigorous certification of organic products and their alignment with international quality standards (Global G.A.P., Halal, and ISO).

The systematic implementation of these measures serves as a catalyst for the efficient realization of fruit and vegetable products. Beyond market expansion, this framework is a fundamental factor in ensuring the nation's food security and long-term economic stability. By bridging the gap between production and modern trade infrastructure, Uzbekistan can successfully double the income of farmers and achieve the targeted 5% annual growth in the agrarian sector by 2025.

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