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# FOOD PRODUCT TRADE TECHNOLOGY: MODERN APPROACHES AND THE EXPERIENCE OF UZBEKISTAN

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## ABSTRACT

This article provides a comprehensive analysis of the theoretical foundations, development trends, and practical aspects of food product trade technology in the context of Uzbekistan. The study scientifically substantiates the interrelationship between trade organization processes, logistics systems, storage technologies, and digitalization factors. In addition, the current state of the national food industry and the prospects for modernizing the trade system are examined.

**Keywords:** Food trade, trade technology, logistics, retail trade, digitalization, Uzbekistan.

## INTRODUCTION

Food product trade is one of the most important and strategic sectors of the economy, as it is directly related to the daily life and living standards of the population. This sector not only ensures the provision of quality products to consumers but also plays a crucial role in organizing effective economic relations between producers and consumers. In modern economic conditions, food trade processes are becoming increasingly complex, which necessitates the continuous improvement of trade technologies.

The concept of food product trade technology encompasses all processes from production to the delivery of goods to the final consumer. These processes consist of interconnected stages, including product reception, quality control, storage,

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transportation, and sales. Each of these stages requires a specific technological approach, and their integration ensures the formation of an efficient trade system. In recent years, globalization, the rapid development of digital technologies, and changes in consumer behavior have significantly influenced the food trade system. Particularly in Uzbekistan, ensuring food security, developing the domestic market, and increasing export potential have made the modernization of this sector a pressing issue.

### METHODS

This study is aimed at a comprehensive analysis of both the theoretical and practical aspects of food product trade technology and is based on a multi-stage scientific approach. The methodological framework includes system analysis, empirical observation, and the processing of statistical data. This approach made it possible to examine trade technology not merely as a set of separate elements, but as an interconnected and dynamically evolving system.

At the initial stage of the research, existing scientific literature, regulatory and legal documents, and international practices related to food trade technology were thoroughly analyzed. This stage enabled the identification of key concepts, development patterns, and modern trends in trade technology. In particular, scientific perspectives on logistics systems, cold chain technologies, digital trade platforms, and consumer behavior were systematized.

At the next stage, a comparative method was applied to analyze the similarities and differences between the trade systems of developed countries and Uzbekistan. This approach made it possible to identify the strengths and weaknesses of the national trade system, as well as opportunities for adapting advanced international practices. The comparison focused on indicators such as trade infrastructure, logistics efficiency, level of digitalization, and service quality.

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Statistical analysis played a significant role in the research. Available statistical data on Uzbekistan's food industry and trade system were analyzed to examine production volumes, trade turnover, changes in consumption structure, and import-export dynamics. Based on these data, the key factors influencing the efficiency of trade technology were identified and their interrelationships were revealed.

Furthermore, a system-based approach was employed to analyze food trade technology as an integrated system. In this context, production, storage, transportation, and sales processes were considered as interdependent stages. This approach allowed for the identification of systemic problems within trade processes and the development of scientifically grounded recommendations for their resolution.

### RESULTS

The results of the study demonstrate that food product trade technology represents a complex, multi-level, and multi-component system. Within this system, logistics serves as a key element, ensuring the continuity and efficiency of product movement. In the presence of an effective logistics system, products are delivered on time, which leads to increased trade volume and improved satisfaction of consumer demand.

The findings also indicate that storage technologies play a decisive role in maintaining the stability of the trade system. Given that many food products are perishable, the availability of refrigeration and freezing systems is essential for preserving product quality. Proper control of temperature and humidity conditions extends the shelf life of products and significantly reduces economic losses.

The development of trade formats has also emerged as an important result. In recent years, alongside traditional markets, modern supermarkets, hypermarkets, and e-commerce platforms have been rapidly expanding. This creates broader

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choices for consumers and contributes to greater transparency and efficiency in trade processes. In particular, the introduction of digital technologies facilitates the automation of trade operations, reduces the influence of the human factor, and improves service quality.

The analysis conducted in the context of Uzbekistan shows that the country's food industry and trade system are in a stage of steady development. The increase in agricultural production contributes not only to the saturation of the domestic market but also to the expansion of export potential. At the same time, the development of the processing industry enables the creation of added value, thereby enhancing the overall efficiency of the trade system.

The study further confirms that the implementation of digital technologies is a key factor in modernizing the trade system. Electronic payment systems, online trade platforms, and automated management systems contribute to the acceleration and optimization of trade processes. This, in turn, improves customer service and strengthens the competitiveness of trade enterprises.

### DISCUSSION

The obtained results also made it possible to identify several challenges in the development of food product trade technology. One of the most significant issues is the insufficient development of logistics infrastructure. In certain regions, the lack of efficient transport networks and modern warehouse facilities leads to delays in product delivery. This situation is particularly critical for perishable goods, resulting in substantial economic losses.

In addition, the incomplete development of cold chain systems negatively affects the quality of food products. Violations of temperature regimes lead to faster spoilage and a decline in product quality delivered to consumers. This further intensifies concerns related to food safety.

The limited technological capacity of small and medium-sized enterprises also represents a significant challenge. Many trade entities lack sufficient financial

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resources to implement modern technologies, which results in lower efficiency of trade operations. Moreover, the level of digitalization varies across regions, creating disparities in the development of the trade system.

Despite these challenges, the study highlights considerable opportunities for further development. The establishment of modern logistics centers, expansion of cold chain systems, and advancement of digital trade platforms can significantly mitigate existing problems. Government reforms and support measures play an important role in accelerating these processes.

### CONCLUSION

The conducted research confirms that food product trade technology is a vital and strategic component of the modern economy. Its effective functioning not only contributes to economic growth but also plays a crucial role in ensuring food security for the population.

The findings indicate that modernization of trade technologies, development of logistics infrastructure, and improvement of storage systems are key factors in enhancing the efficiency of food trade. In particular, the widespread implementation of digital technologies provides significant opportunities for optimizing trade processes and improving service quality.

In the context of Uzbekistan, the food industry and trade system possess substantial development potential. Effective utilization of these opportunities can enhance the competitiveness of the national economy. Therefore, the application of scientifically grounded approaches, innovative technologies, and international best practices will ensure the sustainable development of this sector in the future. In conclusion, the comprehensive development of food product trade technology will lead to increased economic efficiency, reduced product losses, and improved quality of service provided to consumers.

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