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**“GLOBAL RAQAMLI INTEGRATSIYALASHUV:
2030-YILGACHA YASHIL IQTISODIYOTGA O'TISHDA
TEXNOLOGIK VA INDUSTRIAL SANOATNI RIVOJLANTIRISH
ORQALI MIKRO VA MAKROIQTISODIY BARQAROR
O'SISHNI TA'MINLASH DOLZARBLIGI”**

**“GLOBAL DIGITAL INTEGRATION: THE RELEVANCE OF
ENSURING MICRO AND MACROECONOMIC SUSTAINABLE
GROWTH THROUGH TECHNOLOGICAL AND INDUSTRIAL
DEVELOPMENT IN THE TRANSITION TO A GREEN
ECONOMY BY 2030”**

**«ГЛОБАЛЬНАЯ ЦИФРОВАЯ ИНТЕГРАЦИЯ:
АКТУАЛЬНОСТЬ ОБЕСПЕЧЕНИЯ УСТОЙЧИВОГО
МИКРО- И МАКРОЭКОНОМИЧЕСКОГО РОСТА ЧЕРЕЗ
РАЗВИТИЕ ТЕХНОЛОГИЧЕСКОЙ И ИНДУСТРИАЛЬНОЙ
ПРОМЫШЛЕННОСТИ В ПЕРЕХОДЕ К ЗЕЛЁНОЙ
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- 05.01.00 – Axborot texnologiyalari, boshqaruv va kompyuter grafikasi
- 05.01.01 – Muhandislik geometriyasi va kompyuter grafikasi. Audio va video texnologiyalari
- 05.01.02 – Tizimli tahlil, boshqaruv va axborotni qayta ishlash
- 05.01.03 – Informatikaning nazariy asoslari
- 05.01.04 – Hisoblash mashinalari, majmualari va kompyuter tarmoqlarining matematik va dasturiy ta'minoti
- 05.01.05 – Axborotlarni himoyalash usullari va tizimlari. Axborot xavfsizligi
- 05.01.06 – Hisoblash texnikasi va boshqaruv tizimlarining elementlari va qurilmalari
- 05.01.07 – Matematik modellash
- 05.01.11 – Raqamli texnologiyalar va sun'iy intellekt
- 05.02.00 – Mashinasozlik va mashinashunoslik
- 05.02.08 – Yer usti majmualari va uchish apparatlari
- 05.03.02 – Metrologiya va metrologiya ta'minoti
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- 05.05.06 – Qayta tiklanadigan energiya turlari asosidagi energiya qurilmalari
- 05.06.01 – To'qimachilik va yengil sanoat ishlab chiqarishlari materialshunosligi
- 05.08.03 – Temir yo'l transportini ishlatish
- 05.09.01 – Qurilish konstruksiyalari, bino va inshootlar
- 05.09.04 – Suv ta'minoti. Kanalizatsiya. Suv havzalarini muhofazalovchi qurilish tizimlari
- 10.00.06 – Qiyosiy adabiyotshunoslik, chog'ishtirma tilshunoslik va tarjimashunoslik
- 10.00.04 – Yevropa, Amerika va Avstraliya xalqlari tili va adabiyoti
- 08.00.01 – Iqtisodiyot nazariyasi
- 08.00.02 – Makroiqtisodiyot
- 08.00.03 – Sanoat iqtisodiyoti
- 08.00.04 – Qishloq xo'jaligi iqtisodiyoti
- 08.00.05 – Xizmat ko'rsatish tarmoqlari iqtisodiyoti
- 08.00.06 – Ekonometrika va statistika
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- 08.00.08 – Buxgalteriya hisobi, iqtisodiy tahlil va audit
- 08.00.09 – Jahon iqtisodiyoti
- 08.00.10 – Demografiya. Mehnat iqtisodiyoti
- 08.00.11 – Marketing
- 08.00.12 – Mintaqaviy iqtisodiyot
- 08.00.13 – Menejment
- 08.00.14 – Iqtisodiyotda axborot tizimlari va texnologiyalari
- 08.00.15 – Tadbirkorlik va kichik biznes iqtisodiyoti
- 08.00.16 – Raqamli iqtisodiyot va xalqaro raqamli integratsiya
- 08.00.17 – Turizm va mehmonxona faoliyati

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OPTIMIZATION OF THE FOOD SUPPLY AND DELIVERY SYSTEM IN TASHKENT REGION

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Abstract. This thesis analyzes the current state of the food supply and delivery system in Tashkent Region, identifies existing problems, and examines ways to address them. It substantiates the need to optimize the system through the development of logistics infrastructure, digitalization, and the implementation of a cold-chain system.

Keywords: food products, logistics, supply and delivery, optimization, digitalization, Tashkent Region.

Annotatsiya. Mazkur tezisda Toshkent viloyatida oziq-ovqat mahsulotlarini ta'minlash va yetkazib berish tizimining hozirgi holati tahlil qilinib, mavjud muammolar hamda ularni bartaraf etish yo'llari ko'rib chiqilgan. Logistika infratuzilmasini rivojlantirish, raqamlashtirish va sovuq zanjir tizimini joriy etish orqali mazkur tizimni optimallashtirish zarurati asoslab berilgan.

Kalit so'zlar: oziq-ovqat mahsulotlari, logistika, ta'minlash va yetkazib berish, optimallashtirish, raqamlashtirish, Toshkent viloyati.

Аннотация. В данном тезисе проанализировано современное состояние системы снабжения и доставки продовольственных товаров в Ташкентской области, выявлены существующие проблемы и рассмотрены пути их решения. Обоснована необходимость оптимизации данной системы посредством развития логистической инфраструктуры, цифровизации и внедрения системы холодовой цепи.

Ключевые слова: продовольственные товары, логистика, снабжение и доставка, оптимизация, цифровизация, Ташкентская область.

INTRODUCTION

In recent years, ensuring food security and the uninterrupted supply of high-quality products to the population have become pressing issues in the Republic of Uzbekistan. Population growth, urbanization, and the modernization of logistics infrastructure require a systematic approach in this area.

As one of the economically active regions of the Republic, Tashkent Region plays an important role in optimizing the food supply chain. The timely and high-quality delivery of food products is an important factor in ensuring food security for the population. This issue remains particularly relevant in Tashkent Region, where large population centers and industrial hubs are located. Climatic factors and global events such as the pandemic have highlighted the need to strengthen the resilience of the food supply and delivery system. Therefore, it is necessary to conduct a comprehensive analysis of the system and develop measures for its optimization.

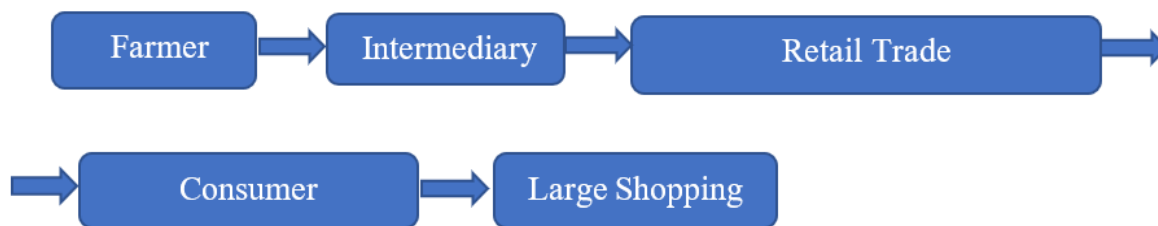
In Tashkent Region, food products are supplied mainly by local farms, large agricultural clusters, cooperatives, and, in some cases, from other regions. Imported products also account for a certain share. The region has a certain level of infrastructure for the production, storage, and delivery of food products to consumers. Several large logistics centers, refrigerated warehouses, and motor transport facilities are operating in the region. However, a number of problems remain:

- Extended delivery times and occasional delays;
 - Areas requiring further improvement in road infrastructure;
 - Insufficient use of information technologies;
 - Opportunities for improving the efficiency of resource allocation.
- Supply Chain

The supply process is mainly carried out according to the following chain:



Figure 1.
Food Supply and Delivery Chain



In this chain, the involvement of multiple intermediaries, together with limitations in transportation and storage conditions, may contribute to higher product prices and reduced product quality.

Logistics Infrastructure

Although infrastructure is relatively well developed in some districts of Tashkent Region, such as Qibray and Zangiota, direct delivery of products to consumers remains relatively limited in some rural areas. Many farmers report a shortage of vehicles for transporting their products to markets.

Key Problems in the System

Insufficient development of the cold-chain system;
 Limited availability of modern product storage facilities;
 Delivery time constraints, product losses, and relatively high logistics costs;
 Limited application of modern logistics technologies;
 Insufficiently developed direct links between farmers and consumers.

Ways to Optimize the System

Digitalization

Digital platforms can enable orders to be placed quickly and accurately and make it possible to track product movement in real time. For example, mobile applications and online marketplaces can strengthen direct interaction between producers and buyers.

Establishment of Logistics Centers

Modern logistics centers equipped with storage and distribution warehouses and specialized transport vehicles should be established in major district centers of the region. This could reduce product losses and contribute to more efficient delivery.

Implementation of a Cold-Chain System

Cold-storage facilities and refrigerated transport vehicles are particularly important for milk, meat, fish, and other perishable products. They help preserve product quality and safety.

Development of Cooperation

Establishing cooperative relationships among farmers and jointly organizing product collection, storage, and distribution can reduce costs and increase efficiency.

Key Directions for Optimization

Digitalization: The introduction of ERP and SCM systems into the logistics system can enable real-time monitoring of product movement.

Transport Logistics: Route optimization and the use of GPS and IoT devices can reduce transportation time and associated logistics costs.

Cooperation with Local Producers: Direct contracts with farms in the region can reduce the number of intermediaries.

Improvement of Warehouse Infrastructure: Increasing the number of refrigerated warehouses will help preserve product quality.

Innovative Approaches

The application of artificial intelligence (AI) and big data analytics makes it possible to analyze and forecast supply and demand and determine optimal inventory levels. For example, AI can be used to forecast seasonal demand and ensure that the necessary products are prepared in advance in warehouses.

Recommendations Based on International Experience

In developed countries around the world, particularly the Netherlands, Japan, and South Korea, food supply systems are highly automated and digitalized. The following practices can be learned from their experience:

Logistics monitoring based on GPS and AI;
 Potential use of unmanned aerial delivery technologies in hard-to-reach rural areas;
 Smart Warehouse systems;



Forecasting and planning based on consumer data.

CONCLUSION AND SUGGESTIONS

The analysis of the food supply and delivery system in Tashkent Region shows that The existing system has several areas requiring further improvement. The following measures are important for addressing them:

- Modernization of logistics infrastructure;
- Expansion of the cold-chain system;
- Establishment of a direct communication system with farmers;
- Introduction of digital technologies;
- Strengthening cooperation.

The implementation of these measures could contribute to strengthening food security, improving economic efficiency, and supporting the stability of the regional food supply system.

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