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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
- 05.04.01 – Telekommunikatsiya va kompyuter tizimlari, telekommunikatsiya tarmoqlari va qurilmalari. Axborotlarni taqsimlash
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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
- 08.00.07 – Moliya, pul muomalasi va kredit
- 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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THE ECONOMIC ESSENCE AND MODERN REQUIREMENTS OF THE FOOD SUPPLY CHAIN

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Abstract. This study analyzes the economic essence and modern requirements of food supply chains in emerging economies. Food supply chains create economic value by delivering products from farmers to final consumers, improving efficiency, and contributing to sustainable development. Modern supply chains require technological integration, digital solutions, resilience, and flexibility. Innovative technologies such as the Internet of Things (IoT), blockchain, artificial intelligence, and data analytics enable product traceability, real-time monitoring, and efficient resource utilization. At the same time, complex supply chain structures, dependence on global trade and long transportation routes, and limited resources available to small and medium-sized enterprises may affect overall efficiency. The study highlights the economic significance of food supply chains, their modern requirements, opportunities, and key challenges.

Keywords: food supply chain, economic essence, modern requirements, digital technologies, sustainability, emerging economies.

Annotatsiya. Ushbu tadqiqot rivojlanayotgan iqtisodiyotlarda oziq-ovqat ta'minot zanjirining iqtisodiy mohiyati va zamonaviy talablarini tahlil qiladi. Oziq-ovqat ta'minot zanjirlari mahsulotlarni fermerlardan yakuniy iste'molchilarga yetkazib berish, samaradorlikni oshirish va barqaror rivojlanishga hissa qo'shish orqali iqtisodiy qiymat yaratadi. Zamonaviy ta'minot zanjirlari texnologik integratsiya, raqamli yechimlar, barqarorlik va moslashuvchanlikni talab qiladi. Narsalar interneti (IoT), blokcheyn, sun'iy intellekt va ma'lumotlar tahlili kabi innovatsion texnologiyalar mahsulotlarning kuzatuvchanligini, real vaqt rejimida monitoringni va resurslardan samarali foydalanishni ta'minlaydi. Shu bilan birga, ta'minot zanjirlarining murakkab tuzilishi, global savdo va uzoq transport yo'nalishlariga bog'liqlik hamda kichik va o'rta korxonalar resurslarining cheklanganligi umumiy samaradorlikka ta'sir ko'rsatishi mumkin. Tadqiqot oziq-ovqat ta'minot zanjirlarining iqtisodiy ahamiyati, zamonaviy talablari, imkoniyatlari va asosiy muammolarini yoritadi.

Kalit so'zlar: oziq-ovqat ta'minot zanjiri, iqtisodiy mohiyat, zamonaviy talablar, raqamli texnologiyalar, barqarorlik, rivojlanayotgan iqtisodiyotlar.

Аннотация. В данном исследовании анализируются экономическая сущность и современные требования к цепочкам поставок продовольствия в странах с формирующейся экономикой. Цепочки поставок продовольствия создают экономическую ценность за счёт доставки продукции от фермеров к конечным потребителям, повышения эффективности и содействия устойчивому развитию. Современные цепочки поставок требуют технологической интеграции, цифровых решений, устойчивости и гибкости. Инновационные технологии, такие как Интернет вещей (IoT), блокчейн, искусственный интеллект и анализ данных, обеспечивают прослеживаемость продукции, мониторинг в режиме реального времени и эффективное использование ресурсов. В то же время сложная структура цепочек поставок, зависимость от глобальной торговли и протяжённых транспортных маршрутов, а также ограниченность ресурсов малых и средних предприятий могут влиять на общую эффективность. В исследовании освещаются экономическое значение цепочек поставок продовольствия, современные требования к ним, возможности и основные проблемы.

Ключевые слова: цепочка поставок продовольствия, экономическая сущность, современные требования, цифровые технологии, устойчивость, страны с формирующейся экономикой.

INTRODUCTION

The food supply chain is an essential system that ensures the efficient movement of agricultural products from producers to consumers while maintaining product quality, safety, and economic value throughout the process. In today's rapidly changing global environment, its economic essence is determined by its ability to create value by integrating production, processing, transportation, distribution, and retail into a unified mechanism. Each link affects cost formation, resource utilization, risk management, and market stability. Therefore, the food supply chain is an integral component of national food security and economic growth.

The requirements imposed on modern food supply systems are shaped by technological advances, changes in consumer behavior, the expansion of international trade, and increasingly stringent quality and safety standards. Digital solutions such as real-time information systems, automation, product traceability technologies, and smart logistics improve transparency and reduce waste. Sustainability requirements,



including reducing food waste, lowering environmental impact, and ensuring fair incomes for farmers, require new approaches to supply chain management. Modern food supply chains must therefore combine economic efficiency with innovation, sustainability, and rapid adaptability.

This study aims to identify the economic essence and modern requirements of the food supply chain and employs a combination of qualitative and quantitative approaches. The first stage was based on a literature review. Articles, reports, and academic sources concerning food chain management, sustainability, digital technologies, and economic efficiency in developing countries were systematically examined. This review identified major problems, opportunities, and innovative solutions in modern food supply chains.

Interviews and surveys were conducted with food supply chain participants, including farmers, processors, logistics companies, and retailers. These methods provided data on supply chain efficiency under real-world conditions, technology adoption, resource utilization, and economic outcomes. The analysis also assessed the role of digital technologies, including IoT, blockchain, artificial intelligence, and data analytics, in food supply chains.

The economic essence and modern requirements of food supply chains have been widely studied in emerging economies. In recent years, numerous studies have been conducted at both international and national levels. Globally, the efficiency and sustainability of food supply chains and the integration of digital technologies have been examined through academic articles, reports, and case studies.

ANALYSIS AND RESULTS

The need to examine food supply chain management in emerging economies is becoming increasingly important. As the world population grows rapidly and incomes rise in developing countries, demand for food products continues to increase. The food industry plays a vital role in supplying essential products that meet people's daily needs. After agricultural products are harvested or food is manufactured, they must be stored under appropriate conditions, transported to the required destinations, and brought to market. These processes ensure that products reach consumers on time while preserving their quality.

The food supply chain is a complex network of activities that transforms raw agricultural products into final consumer goods. It encompasses production, processing, storage, distribution, and retail, linking farmers, processors, logistics service providers, distributors, and retailers. Its economic essence is reflected in value creation, efficiency improvement, and cost reduction at every stage, while maintaining product quality and safety.

By optimizing flows of resources, finance, and information, food supply chains contribute to economic growth, job creation, and income generation while ensuring efficient resource use and reducing waste. They connect producers with markets and consumers, support price formation based on supply and demand, and contribute to market stability.

Modern food supply chains have evolved significantly in response to globalization, technological progress, and changing consumer requirements. Environmentally responsible practices are increasingly required, including waste reduction, prevention of food loss, efficient use of water and energy resources, and adoption of circular economy principles.

Digital technologies such as the Internet of Things, artificial intelligence, blockchain, cloud computing, and big data analytics are fundamentally transforming food supply chain operations. These tools improve product traceability, transparency, and real-time monitoring, enabling participants to respond quickly to disruptions, strengthen quality control, and optimize logistics and inventory planning. Digital product passports, for example, provide detailed information about a product's origin, processing stages, and movement throughout the supply chain, increasing consumer confidence and supporting safety and environmental requirements.

The food supply chain encompasses the key stages from production on farms through processing, storage, logistics, and delivery to the final consumer. It represents a set of interconnected processes that ensures the high-quality, safe, and uninterrupted supply of food products.



Figure 1. Main stages of the food supply chain¹

Flexibility and resilience are important requirements for modern food supply chains. They must be prepared to operate under rapid market changes, climate change, geopolitical tensions, and global crises such as pandemics. Resilient supply chains ensure continuity through risk assessment, diversification of suppliers and distribution routes, and scenario-based planning.

Effective supply chain management requires all participants, from farmers to retailers, to cooperate to improve overall efficiency. In emerging economies, further development of technology adoption, infrastructure, and regulatory capacity can support the implementation of innovative solutions and improve supply chain efficiency.

Economic optimization is central to modern food supply chain management. Supply chain design involves decisions regarding production volumes, the allocation of in-house and contract production, and the integration of value-added processes, aiming to maximize profits while maintaining environmental and social standards. Automation, precision agriculture technologies, cold-chain systems, and distribution innovations improve operational efficiency, reduce costs, and minimize product losses.

Market differentiation is also important, as introducing new products or product variants can create specialized supply chains and strengthen competitive advantage.

The economic essence of the food supply chain is based on value creation, efficient resource utilization, risk reduction, and market integration. Modern requirements include sustainability, technological integration, resilience, transparency, and flexibility. Food supply chains deliver high-quality, safe, and environmentally responsible products to consumers, contributing to economic development and long-term food security.

The introduction of innovative technologies and sustainable practices improves operational efficiency while supporting global efforts to ensure food security, reduce waste, and promote sustainable consumption and production. As consumer requirements change and global challenges intensify, food supply chains must continuously adapt and use digital solutions and collaborative strategies to remain efficient and resilient under economic, environmental, and social pressures.

1 Source: Developed by the author.

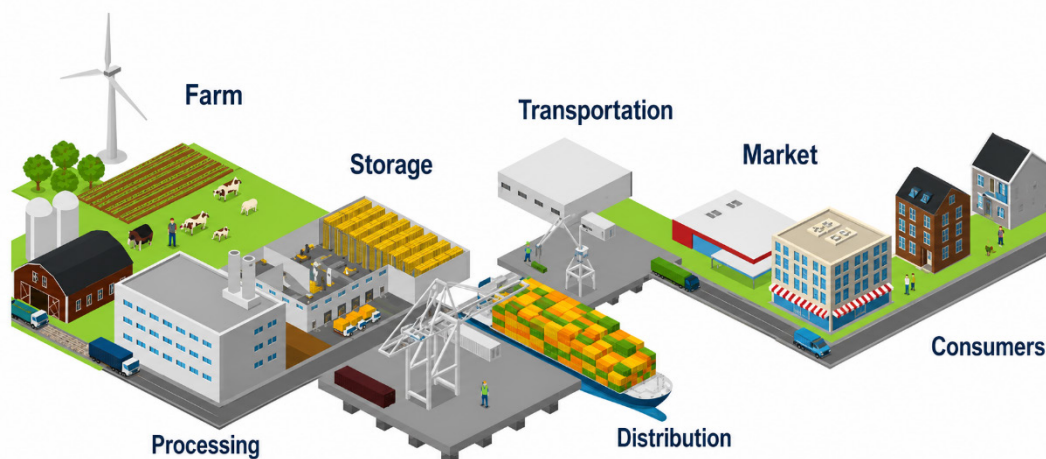


Figure 2. Structural stages of the food delivery system²

The economic essence of the food supply chain lies in its role as a vital link between agricultural production and consumers. It creates economic value by ensuring the efficient movement of products from farms to markets and consumers, provides income for farmers, businesses, and retailers, and contributes to national and global economies.

Modern food supply chains focus on efficiency, sustainability, and resilience. Integrating IoT, blockchain, artificial intelligence, and data analytics enables real-time monitoring, product traceability, and efficient resource management, thereby reducing waste, improving food safety, and lowering costs. Sustainable practices reduce environmental impacts, improve energy efficiency, and align with global development goals.

Modern supply chains are flexible and responsive and can address disruptions caused by climate change, pandemics, or geopolitical challenges, thereby supporting food availability and price stability.

Food supply chains involve numerous participants and intermediaries, creating opportunities to improve coordination, reduce delays, and optimize costs through more integrated management approaches. The growing role of global trade and long transportation routes highlights the importance of diversified logistics networks and effective mechanisms for managing disruptions and price fluctuations. The adoption of modern practices by small and medium-sized enterprises can be supported by expanding access to advanced technologies, financial resources, and skilled labor.

Integrating new technologies requires appropriate investment and specialized knowledge, highlighting the importance of financial support, capacity building, and knowledge transfer in developing regions. Further implementation of sustainability measures can contribute to reducing food losses and waste during production, processing, distribution, and consumption. In emerging economies, further harmonization of regulations, development of standardization systems, and improvement of infrastructure can enhance the economic efficiency and reliability of modern food supply chains.

CONCLUSION AND SUGGESTIONS

Effective management of food supply chains in emerging economies is crucial for ensuring national and global food security and for contributing to economic growth and sustainable development. The food supply chain is a complex system integrating processes from production to the final consumer, with the objective of creating value, reducing costs, and improving efficiency at every stage.

Modern food supply chains require technological integration, sustainability, transparency, and flexibility. Digital solutions such as IoT, artificial intelligence, blockchain, and big data analytics make it possible to optimize operations, ensure product quality and safety, and reduce waste. At the same time, expanding technology adoption, improving infrastructure and regulatory mechanisms, and strengthening the capacities of small and medium-sized enterprises can further enhance efficiency and resilience.

Food supply chain management strategies in emerging economies should focus on adopting innovative technologies, implementing sustainable practices, managing resources efficiently, and making markets more adaptable. Efficient and resilient food supply chains not only create economic value but also strengthen food security by delivering high-quality and safe products, reducing waste, and increasing environmental responsibility.

2 Source: Developed by the author.



The development and modernization of food supply chains in emerging economies are therefore important for ensuring economic, environmental, and social sustainability and for contributing to global food security strategies.

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