MUHANDISLIK & IQTISODIYOT

ijtimoiy-iqtisodiy, innovatsion texnik,
fan va ta'limga oid ilmiy-amaliy jurnal

2025
oktyabr

TOSHKENT SHAHRIDAGI TURIN POLITEXNIKA UNIVERSITETI

Xalqaro ilmiy-amaliy onlayn konferensiya materiallari to'plami

"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 ЭКОНОМИКЕ К 2030 ГОДУ»

7-MAXSUS SON

74-91 xalqaro daraja
ISSN: 2992-8982

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fan va ta'limga oid ilmiy-amaliy jurnal

Elektron nashr.
2025-yil, oktyabr.

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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 modellashtirish
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 – Telekommunikasiya va kompyuter tizimlari, telekommunikasiya tarmoqlari va qurilmalari. Axborotlarni taqsimlash
05.05.03 – Yorug'lik texnikasi. Maxsus yoritish texnologiyasi
05.05.05 – Issiqlik texnikasining nazariy asoslari
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
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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
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08.00.15 – Tadbirkorlik va kichik biznes iqtisodiyoti
08.00.16 – Raqamli iqtisodiyot va xalqaro raqamli integratsiya
08.00.17 – Turizm va mehmonxona faoliyati

Ma'lumot uchun, OAK Rayosatining 2024-yil 28-avgustdagi 360/5-son qarori bilan "Dissertatsiyalar asosiy ilmiy natijalarini chop etishga tavsiya etilgan milliy ilmiy nashrlar ro'yxati"ga texnika va iqtisodiyot fanlari bo'yicha "Muhandislik va iqtisodiyot" jurnali ro'yxatga kiritilgan.

Muassis: "Tadbirkor va ishbilarmon" MChJ

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THE IMPORTANCE OF BEST PRACTICES OF FOREIGN COUNTRIES IN PROCESSING FRUIT AND VEGETABLE PRODUCTS

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Annotatsiya. Ushbu tezisda meva mahsulotlarini qayta ishlash sohasida xorijiy davlatlarning ilg‘or tajribalari, zamonaviy innovatsion yechimlar, xalqaro tadqiqotlar va ilmiy yangiliklar yoritilgan. Shuningdek, ASEAN GAP xalqaro sertifikati va xalqaro standartlar tizimi, hamkorlik va iqtisodiy aloqalar, mamlakatimizda amalga oshirilayotgan yangi tashabbuslar hamda xalqaro tajribalarni O‘zbekistondagi meva mahsulotlarini qayta ishlash korxonalariga tatbiq etish bilan bog‘liq dolzarb masalalar ilmiy jihatdan bayon etilgan.

Kalit so‘zlar: meva mahsulotlari, qayta ishlash sanoati, xorijiy tajribalar, zamonaviy va innovatsion yechimlar, ASEAN GAP xalqaro sertifikati, xalqaro standartlar tizimi, xorijiy tadqiqotlar, iqtisodiy hamkorlik.

Abstract. This thesis examines advanced foreign experiences in the processing of fruit products, modern innovative solutions, international research findings, and recent scientific developments in the field. Particular attention is given to the ASEAN GAP international certification and international standards systems, economic cooperation and partnerships, as well as new initiatives being implemented in Uzbekistan. The study also scientifically highlights current issues related to the adaptation and implementation of international best practices in fruit-processing enterprises of the country.

Keywords: fruit products, processing industry, foreign experience, modern and innovative solutions, ASEAN GAP international certification, international standards system, foreign research, economic cooperation.

Аннотация. В данной тезисной работе рассматриваются передовой зарубежный опыт переработки плодоовощной продукции, современные инновационные решения, международные исследования и научные достижения в данной сфере. Особое внимание уделено международному сертификату ASEAN GAP и системе международных стандартов, вопросам сотрудничества и экономических связей, а также новым инициативам, реализуемым в нашей стране. Научно обоснованы актуальные вопросы внедрения международного опыта на предприятиях по переработке плодоовощной продукции Республики Узбекистан.

Ключевые слова: плодоовощная продукция, перерабатывающая промышленность, зарубежный опыт, современные и инновационные решения, международный сертификат ASEAN GAP, система международных стандартов, зарубежные исследования, экономическое сотрудничество.

INTRODUCTION

Globally, the processing, packaging, storage, drying, and preservation of fruit products have become some of the most pressing issues in the agro-industrial sector. Around the world, advanced innovative solutions for processing, packaging, storing, drying, and preserving fruit products are being implemented through the use of artificial intelligence, robotics, and smart technologies. Many modern scientific achievements and innovative experiments are actively being introduced into practice. Today, fruit processing has become one of the rapidly developing industries worldwide and has reached a high industrial level. This demonstrates that the fruit-processing sector occupies an important place in the global market.

As a result, international experience in the fruit and vegetable industry continues to improve. Intensive trade relations are expanding within the global market. New competitive technologies aimed at developing the fruit-processing industry in developed countries, modern experiments, the latest scientific achievements and innovations, as well as scientific and practical research based on these developments, are rapidly advancing worldwide. The development of international experience contributes to the expansion of economic opportunities and sustainable growth in the fruit and vegetable

processing industry. Therefore, studying, analyzing, and applying international practices opens up new prospects for development.

In the global practice of developed foreign countries, extensive experience has been accumulated in the processing of fruit and vegetable products. Numerous scientific, practical, innovative, and modern approaches demonstrating high economic efficiency have been introduced, the analysis of which is presented below.

Foreign researchers N. J. Al Maalouf, J. Elia, F. Boutros, M. Balouza, and Ch. Sawaya conducted a scientific research project entitled *"Sustainable Practices for the Supply Chain of Fresh Fruits and the Storage of Fruits and Vegetables at Low Temperatures."* Within the framework of this study, scientific and practical experiments were carried out on enterprises operating in the fruit and vegetable sector of Lebanon.

During the research conducted in 2019, the experience of Italy was widely utilized. Experiments were carried out on the use of bio-based polymers in raspberry preservation. As a result, bio-based polymers were recognized as one of the most effective alternatives to traditional plastics for storing fruit products. Researchers concluded that bio-based polymers are more environmentally and socially sustainable due to their lower negative impact on the environment compared to conventional plastics.

Based on these successful experiments, the use of bio-based polymers in fruit storage was also introduced in Lebanon[1]. This demonstrates that the accumulated scientific and practical experience has become an environmentally sustainable tool for fruit preservation. The findings of this research and the practical application of bio-based polymer containers in fruit-processing enterprises in our country can contribute to the development of environmentally safe products that meet international standards.

One of the most advanced international experiences in fruit processing is the ASEAN international standards system. Today, these standards are recognized as modern and innovative international practices. ASEAN (Association of Southeast Asian Nations) is an international organization established to promote economic, political, and cultural cooperation among Southeast Asian countries. Its primary goals include maintaining regional peace and stability, strengthening economic cooperation, and implementing reforms aimed at increasing trade and investment.

Within the framework of ASEAN, a modern agricultural production system ensuring the safe and high-quality production of fruits and vegetables has been developed for farms, agricultural enterprises, and fruit-processing companies. In this regard, an international standards system based on innovative practices and modern technologies has been established.

The ASEAN GAP international standards consist of four main modules, which are presented in Figure 1 developed by the author. These modules form an international standards system aimed at ensuring the safety and quality of agricultural products. Based on this system, agricultural enterprises, farms, and fruit-processing companies may obtain ASEAN GAP certification (Figure 1).



Figure 1. Composition of modules of the ASEAN GAP international standard[2]

ASEAN GAP certified agricultural enterprises, farms, and fruit-processing enterprises are recognized as

1 N.J.Al Maalouf, J.Elia, F.Boutros, M.Balouza, Ch.Sawaya "Sustainable practices and their impact on the operations of fresh fruits and vegetables market in the cold chain", Cleaner Logistics and Supply Chain 13 (2024) 100196

2 https://asean.org/ Developed by the author based on data from.

environmentally friendly enterprises.

The ASEAN organization operates through a certification system. Agricultural enterprises, farms, and fruit-processing enterprises must meet the requirements of the above-mentioned four modules and their relevant criteria. If these enterprises comply with ASEAN GAP standards, they are issued the ASEAN GAP certificate, which is one of the recognized international certificates. On the basis of this certificate, agricultural enterprises, farms, and fruit-processing enterprises can confirm that their activities meet international standards of product safety, quality, and environmental sustainability.

The ASEAN organization was established on August 8, 1967, in Bangkok, Thailand, by Indonesia, Malaysia, the Philippines, Singapore, and Thailand as the founding member states through the signing of the ASEAN Declaration. Later, its membership expanded: Brunei Darussalam joined on January 7, 1984; Vietnam on July 28, 1995; Lao PDR on July 23, 1997; Myanmar on April 30, 1999; Cambodia on April 30, 1999; and Timor-Leste became a member state on October 25, 2025. Currently, ASEAN consists of 11 member states. The names of these member states are presented in Figure 2, developed by the author (Figure 2).

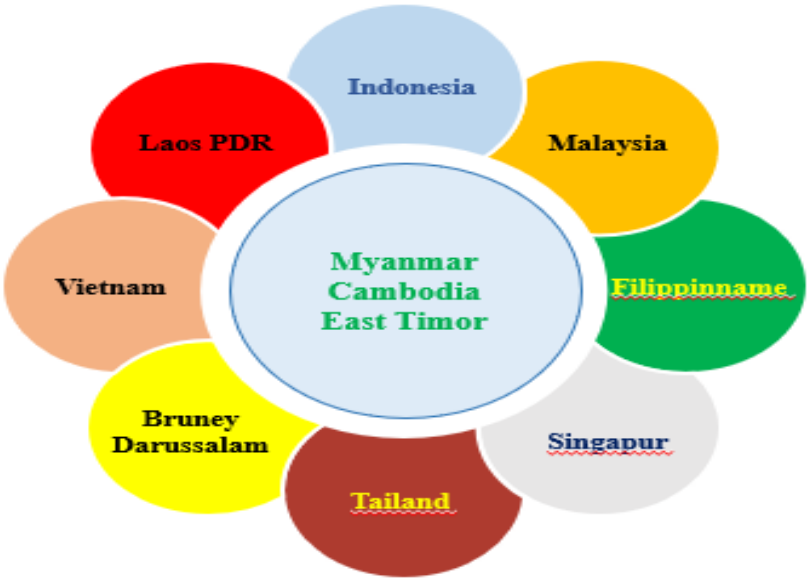

Figure 2. Names of ASEAN member states[3]

Figure 2 presents the member states of the Association of Southeast Asian Nations (ASEAN), which currently consists of 11 countries. These countries conduct their activities and mutual economic cooperation based on four main pillars.

The Republic of Uzbekistan is not a member state of ASEAN; however, in terms of cooperation, Uzbekistan is recognized as a country that has acceded to the ASEAN Treaty of Amity and Cooperation. According to information published by the Gazeta.uz website, the Association of Southeast Asian Nations (ASEAN) approved Uzbekistan's application to join the Treaty of Amity and Cooperation in Southeast Asia. On November 20, 2025, during the regular ASEAN meeting held in Malaysia, Uzbekistan's application to accede to the treaty was officially approved.

The initiative for Uzbekistan's accession to the Treaty of Amity and Cooperation in Southeast Asia was proposed by the President of the Republic of Uzbekistan, Shavkat Mirziyoyev. During the meeting of ASEAN Foreign Ministers held in Kuala Lumpur under the chairmanship of Malaysia, all member states of the organization supported Uzbekistan's application to join the treaty.

The Treaty of Amity and Cooperation in Southeast Asia, signed on February 24, 1976, in Bali, Indonesia, is recognized as one of the key documents defining the fundamental principles of mutual cooperation within the ASEAN region. The ASEAN region includes 11 Southeast Asian countries and represents one of the world's largest markets, with a population of nearly 700 million people.

In May 2024, during a meeting between the President of Uzbekistan and the Prime Minister of Malaysia, an initiative was proposed to establish a dialogue platform in the "Central Asia + ASEAN" format at the level of foreign ministers. This demonstrates that the above-mentioned treaty is economically significant for the Republic of Uzbekistan, contributing to the expansion of opportunities for entering international markets and strengthening external economic relations (Figure 3).

3 https://asean.org/ Developed by the author based on data from.

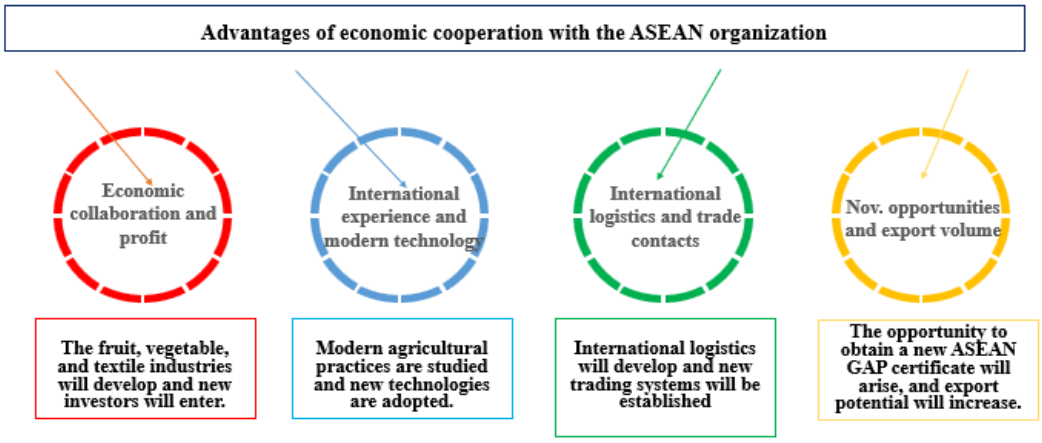

Figure 3. Advantages of economic cooperation with the ASEAN organization[4]

As a result of cooperation with the ASEAN organization, an increase in the export potential of our country can be achieved. At present, official political and diplomatic cooperation with ASEAN has been established. In the future, opportunities to obtain ASEAN GAP certification may also expand. Figure 3, developed by the author, illustrates the benefits of cooperation with the ASEAN organization.

Through cooperation with ASEAN, advanced agricultural practices can be studied, exports of fruits, vegetables, and textiles can increase, new investors may be attracted, and new transport routes and trade relations can be developed. The above-mentioned Figure 3 presents the main economic advantages of cooperation with the ASEAN organization.

Figure 3 details the benefits of economic cooperation with ASEAN, and the establishment of such cooperation will contribute to the practical implementation of these opportunities in the Republic of Uzbekistan. If the Republic of Uzbekistan becomes a full member of the ASEAN organization, the following opportunities may emerge:

– reduction of customs barriers;
– expansion of free trade opportunities;
– participation in regional projects as a full member.

Currently, ASEAN has established partnerships with many major developed countries of the world. In particular, it maintains economic cooperation with:

– the United States of America;
– China;
– Japan;
– India;
– the European Union (EU).

In general, ASEAN member states represent one of the largest markets in the world and occupy leading positions in international trade. The organization actively participates in global meetings, forums, and summits on the international stage.

As one of the advanced international practices in fruit processing, the policy model of India aimed at developing the food-processing industry can be highlighted. This model represents a strategic policy framework designed to strengthen the food industry through the development of agriculture. The primary objective of this strategy is to improve the sustainability and competitiveness of the food industry within the national economy of India.

The strategy includes the following key objectives:

– creating added value through the processing of agricultural products;
– reducing post-harvest losses;
– increasing farmers' incomes;
– expanding exports and employment opportunities;
– ensuring food security and product quality.

Modern practices implemented in India for the development of the food industry and the improvement of the processing system are presented in Figure 4, developed by the author (Figure 4).

4 https://asean.org/ Developed by the author based on data from.

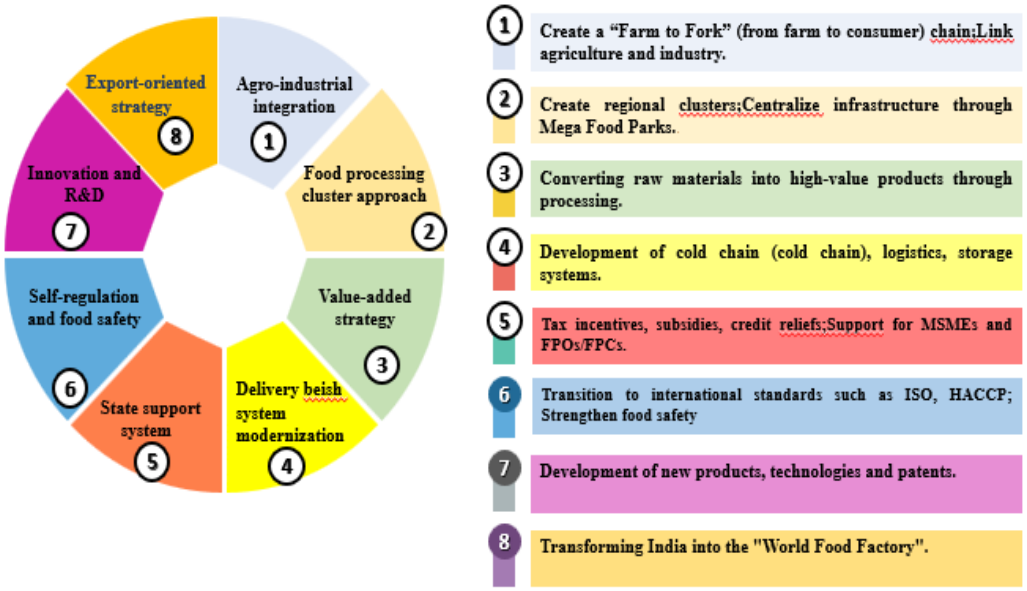

Figure 4. Food industry in the Indian state modern experiences of development[5]

In Figure 4, the Republic of India focuses on the development of the food industry and the improvement of processing activities based on the cluster system approach. The implementation of this experience in fruit-processing enterprises in our country can create new economic opportunities, improve production efficiency, strengthen integration between agriculture and industry, and increase the competitiveness of processed products in international markets.

CONCLUSION AND RECOMMENDATIONS

In conclusion, it should be noted that the importance of advanced foreign experience in fruit processing is highly significant, and the study and broad application of modern international practices have become a requirement of the present time. The extensive implementation of international experience in both research and practice contributes to the development of fruit-processing enterprises in our country, improves their operational efficiency, and expands opportunities for entering international markets.

Furthermore, the application of advanced international practices supports the growth of export potential, the introduction of modern and innovative technologies, the production and processing of environmentally friendly products, and the acquisition of certificates that comply with international standards. In addition, it promotes the expansion of international experience-exchange programs and contributes to the development of a highly qualified human resources system based on advanced global experience.

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muhandislik & iqtisodiyot

ijtimoiy-iqtisodiy, innovatsion texnik,
fan va ta'limga oid ilmiy-amaliy jurnal

Ingliz tili muharriri: Feruz Hakimov

Musahhih: Zokir Alibekov

Sahifalovchi va dizayner: Iskandar Islomov

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