



IQTISODIYOT & TARAQQIYOT

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FACTORS INFLUENCING THE INNOVATIVE DEVELOPMENT OF THE PLASTICS INDUSTRY

Ma'rifat Ikramovna Matchanova

PhD Student, Tashkent Institute of Textile and Light Industry, Uzbekistan

Assistant, Department of Economics,

Tashkent Institute of Management and Economics, Uzbekistan

ORCID-(0009-0009-8449-3706)

Abstract. This article systematizes the macro- and micro-level factors influencing the innovative development of the plastics industry. The study examines the economic content of innovation, the functional areas of organizing innovative production processes in industrial enterprises, and the institutional-legal, financial-economic, scientific-technological, external economic, environmental, and internal enterprise factors affecting the plastics industry. As a result, a conceptual system of factors influencing the competitive, export-oriented, and environmentally sustainable development of the plastics industry is developed.

Keywords: plastics industry, innovative development, innovative potential, macro level, micro level, technological modernization, research and development, environmental factors, financial and economic factors.

Annotatsiya. Mazkur maqolada plastmassa sanoatining innovatsion rivojlanishiga ta'sir etuvchi makro va mikro darajadagi omillar tizimlashtirilgan. Tadqiqotda innovatsiyaning iqtisodiy mazmuni, sanoat korxonalarida innovatsion ishlab chiqarish jarayonlarini tashkil etishning funksional yo'nalishlari hamda plastmassa sanoatiga ta'sir ko'rsatuvchi institutsional-huquqiy, moliyaviy-iqtisodiy, ilmiy-texnologik, tashqi iqtisodiy, ekologik va korxonaning ichki omillari o'rganilgan. Natijada plastmassa sanoatining raqobatbardosh, eksportga yo'naltirilgan va ekologik jihatdan barqaror rivojlanishiga ta'sir etuvchi omillarning konseptual tizimi ishlab chiqilgan.

Kalit so'zlar: plastmassa sanoati, innovatsion rivojlanish, innovatsion salohiyat, makrodaraja, mikrodaraja, texnologik modernizatsiya, ilmiy tadqiqotlar va ishlanmalar, ekologik omillar, moliyaviy-iqtisodiy omillar.

Аннотация. В данной статье систематизированы факторы макро- и микроуровня, влияющие на инновационное развитие промышленности пластмасс. В исследовании рассматриваются экономическое содержание инноваций, функциональные направления организации инновационных производственных процессов на промышленных предприятиях, а также институционально-правовые, финансово-экономические, научно-технологические, внешнеэкономические, экологические и внутренние факторы предприятий, влияющие на промышленность пластмасс. В результате разработана концептуальная система факторов, влияющих на конкурентоспособное, экспортно-ориентированное и экологически устойчивое развитие промышленности пластмасс.

Ключевые слова: промышленность пластмасс, инновационное развитие, инновационный потенциал, макроуровень, микроуровень, технологическая модернизация, научные исследования и разработки, экологические факторы, финансово-экономические факторы.

INTRODUCTION

Innovative development is one of the key factors contributing to technological renewal, production efficiency, and competitiveness of industrial sectors. In the study by F. B. Shakirova, innovation is interpreted as a set of novelties, inventions, discoveries, ideas, and new approaches introduced into production and generating economic and social effects [4]. According to this approach, an innovative idea alone is insufficient; its implementation in production and demonstration of its economic usefulness are essential conditions.

The innovative development of industrial sectors is closely associated with technological growth, structural transformations, investment processes, and changes in the external environment [1, 2]. Therefore, it is necessary to examine innovative development not only at the level of an individual enterprise but also as a system influenced by public policy, financing, scientific and technological infrastructure, the external economic environment, and environmental requirements.

In the plastics industry, innovations are particularly evident in recycling technologies, bioplastics, smart polymers, automation, and resource-efficient production. In Uzbekistan, the innovative development of the



sector is being shaped through foreign investment, modernization projects, and the introduction of new technologies.

The main research problem is to systematize the factors influencing the innovative development of the plastics industry and to identify their interrelationships at the macro and micro levels.

LITERATURE REVIEW

The innovative development of industrial enterprises has been widely examined in economic and management literature, particularly in relation to technological modernization, investment activities, competitiveness, and sustainable development. Existing theoretical approaches consider innovation as a complex process involving the introduction of new technologies, products, organizational methods, and managerial solutions aimed at improving economic and social performance.

F. B. Shakirova interprets innovation as a combination of novelties, inventions, discoveries, ideas, and new approaches introduced into production to generate economic and social benefits [4]. This approach emphasizes that innovation is not limited to the creation of new ideas but also requires their practical implementation and economic application. Research on industrial development highlights the relationship between innovation, technological progress, structural transformation, and investment processes [1, 2].

Studies examining the organization of innovative production processes identify production, financial and economic, technical and technological, and human capital development activities as interconnected components of enterprise innovation management [3]. These components demonstrate the importance of integrating technological capabilities with financial resources, organizational mechanisms, and employee development.

The literature also emphasizes the influence of macro- and micro-level factors on industrial innovation. Institutional and legal conditions, financial support mechanisms, scientific and technological infrastructure, and government innovation policies contribute to the formation of a favorable environment for innovative activities [7–10]. At the enterprise level, technological potential, qualified personnel, financial stability, research and development activities, and effective management systems play an important role in transforming innovative opportunities into practical economic outcomes [11–13].

In the plastics industry, particular attention is given to the development of recycling technologies, advanced polymer materials, bioplastics, automation, and resource-efficient production. International market conditions, raw-material prices, investment flows, and environmental requirements also influence the direction of innovative development [16]. These factors indicate the importance of considering economic competitiveness and environmental sustainability within a unified analytical framework.

Overall, the reviewed literature provides a theoretical basis for understanding the multidimensional nature of industrial innovation. On this basis, the present study systematizes the institutional, economic, technological, environmental, and enterprise-level factors influencing the innovative development of the plastics industry and examines their interrelationships within a unified conceptual framework.

RESEARCH METHODOLOGY

The methodological basis of the study is a systems approach to the analysis of innovative development. The factors influencing the innovative development of the plastics industry are divided into two principal levels: macro and micro.

At the macro level, institutional and legal, financial and economic, scientific and technological, external economic, and environmental factors are considered. At the micro level, the study systematizes the technological potential of enterprises, research and innovation activities, financial resources, human capital, internal management systems, product range and quality, research and production infrastructure, and competitiveness [5, 6]. The study employs systems analysis, classification, comparative analysis, and conceptual modeling. Based on the available materials, the functional areas of organizing innovative production processes in industrial enterprises are identified and linked to factors specific to the plastics industry.

The information base consists of academic literature, data reported in international reports, materials related to investment programs, and publicly available sources used in the article. The statistical indicators presented in the initial materials were retained without introducing new numerical values not supported by the source materials.



ANALYSIS AND RESULTS

Organization of Innovative Production Processes in Industrial Enterprises

The analysis identified four functional systems for organizing innovative production processes in industrial enterprises: innovative production activities; innovative financial and economic activities; innovative technical and technological activities; and innovative labor and human capital development [3]. Their principal components are presented in Table 1.

Table 1. Main Functional Systems for Organizing Innovative Production Processes in Industrial Enterprises¹

Organization of innovative production activities	Organization of innovative financial and economic activities	Organization of innovative technical and technological activities	Organization of innovative labor and human capital
Planning the innovative production strategy; developing new products and technologies; introducing innovations into production processes; forming innovation infrastructure; managing innovative logistics and supply chains	Financing innovative projects; managing innovative investments; evaluating innovation efficiency; managing costs and risks; attracting grants, subsidies and venture financing; monitoring and auditing projects	Introducing digital and automated systems; managing modern technological equipment; organizing R&D; introducing green technologies and recycling systems; implementing quality management and international standards	Developing personnel policy; organizing employees' innovative activities; retraining and professional development; creating an innovation motivation system; developing corporate innovation culture; managing intellectual capital and social development

These functional systems are interrelated and cover innovation strategy planning, the development of new products and technologies, investment management, organization of R&D activities, introduction of modern technological equipment, employee development, and monitoring of innovative projects.

Macro-Level Factors of Innovative Development of the Plastics Industry

The conceptual system of factors influencing the innovative development of the plastics industry is divided into macro and micro levels. Macro-level factors shape the institutional and economic environment in which enterprises operate. Institutional and legal factors include legislation regulating innovation activities, industrial and investment policies, technical regulations, standardization, intellectual property protection, and fiscal and financial incentives provided by the state [7, 9]. Financial and economic factors include enterprises' own funds, bank loans, investments, foreign direct investment, venture capital, subsidies, grants, and other support instruments. Demand, competition, exchange-rate conditions, and raw-material prices also determine the economic conditions for innovative projects.

Scientific and technological factors are associated with research institutions, universities, technology parks, patent activity, technology transfer, and qualified personnel [8, 9, 10]. These factors create the basis for developing and implementing new polymer materials, composite products, and recycling technologies. External economic factors are manifested through global market conditions, demand and supply for plastics and polymer products, oil and gas raw-material prices, customs tariffs, non-tariff restrictions, international integration, and foreign investment flows [16].

Environmental factors are related to waste reduction and recycling, energy- and raw-material-efficient technologies, water-resource protection, closed-loop production, and the development of biodegradable and secondary-raw-material-based polymer materials.

Table 2. Macro-Level Factors Influencing the Innovative Development of the Plastics Industry²

Institutional and legal factors	Financial and economic factors	Scientific and technological factors	External economic factors	Environmental factors
State laws, strategies, development programs and regulations define the operating framework of the plastics industry.	Financial support mechanisms for innovation determine the pace of technological modernization.	Research institutions, technology parks and R&D expenditure create the scientific and technological basis for innovation.	Global demand and supply and fluctuations in oil and gas prices affect enterprise decisions.	Environmental protection, waste reduction and recycling, and rational resource use shape sustainable innovation.

¹ Source: Compiled by the author based on the analysis and systematization of sources [3, 4, 7].

² Source: Compiled by the author based on the analysis and systematization of sources [7, 8, 10, 16].



Micro-Level Factors of Innovative Development of the Plastics Industry

Micro-level factors are directly related to the internal capabilities and resources of enterprises. Technological modernization, automation, and digitalization increase production efficiency and contribute to reducing product costs. Human capital is an important component of innovative development [11, 12, 13]. The qualifications of engineers, technologists, designers, and researchers determine the ability to develop new products and improve technological processes. Financial stability ensures continuity of modernization and research activities.

The internal management system includes strategic planning, innovation management, risk assessment, and effective decision-making mechanisms. The alignment of product range and quality with market demand is another important factor determining innovative competitiveness.

Table 3. Micro-Level Factors Influencing the Innovative Development of the Plastics Industry³

Factor	Description
Technological potential	Existing equipment, production capacity, and the ability to introduce modern technologies determine the level of innovative development.
Research and innovation activities	The ability to develop new products and technologies, prototype them, and implement them in practice determines the quality of innovation activity.
Financial resources	The ability to mobilize enterprise funds, loans, and investments ensures the implementation of innovative projects.
Human resources and specialist potential	Qualified engineers, technologists, and innovation-oriented employees determine competitiveness and the pace of technological renewal.
Internal management system	Strategic planning, innovation management, and effective decision-making mechanisms optimize production processes.
Product range and quality	The development of new polymer products and their adaptation to market demand increase innovative competitiveness.
Internal research and production infrastructure	Laboratories, testing facilities, technology parks, and prototyping centers support innovation processes.
Competitiveness and domestic market potential	Product price, quality, and market position create conditions for effective implementation of an enterprise's innovation strategy.

Thus, the innovative development of the plastics industry is formed through the interaction of the external environment and the internal potential of enterprises. Macro-level factors create the conditions for innovation, while micro-level factors transform available opportunities into practical economic outcomes.

The results demonstrate that the innovative development of the plastics industry cannot be limited to technological modernization alone. The formation of innovative outcomes depends on the combined influence of financing, the institutional environment, scientific and technological potential, human capital, external market conditions, and environmental requirements. The main feature of the conceptual approach presented in the article is the consideration of macro- and micro-level factors within a unified system. Public policy, financial incentives, and scientific infrastructure generate conditions for innovation, while technological and managerial capabilities at the enterprise level determine the extent to which these opportunities are transformed into economic results. The development of recycling, bioplastics, resource-efficient technologies, and automation in the plastics industry makes it necessary to consider environmental sustainability together with economic efficiency [16]. Therefore, the assessment of innovative development should include not only economic outcomes but also technological, human-capital, and environmental indicators.

The international and national statistical indicators presented in the article originate from different sources. Therefore, in subsequent empirical research, they should be rechecked and harmonized using a common methodology, time period, and measurement units.

CONCLUSION AND SUGGESTIONS

The study systematized the factors influencing the innovative development of the plastics industry at the macro and micro levels. At the macro level, institutional and legal, financial and economic, scientific and technological, external economic, and environmental factors were identified as the main groups. At the micro level, technological potential, R&D and innovation activities, financial resources, human capital, management systems, product range and quality, internal innovation infrastructure, and competitiveness were identified.

3 Source: Compiled by the author based on the analysis and systematization of sources [7, 13, 15].



The organization of innovative production processes in industrial enterprises is based on the interrelationship of innovative production, financial and economic activities, technical and technological activities, and labor and human capital development.

In the innovative development of the plastics industry, it is important to consider technological modernization together with research activities, qualified personnel, financial resources, environmental requirements, and external market conditions. The conceptual approach developed in the study can serve as a methodological basis for the subsequent quantitative assessment of the innovative potential of the plastics industry, the development of an indicator system, and econometric analysis of the efficiency of innovative development.

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