

INNOVATSIYALAR VA INVESTITSİYALAR SANOAT SEKTORINING RAQOBATBARDOSHLIGINI OSHIRISH DRAYVERLARI SIFATIDA

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Annatatsiya: Maqolada investitsiyalar va innovatsiyalarning O'zbekiston sanoat korxonalari ishlab chiqarish jarayoni samaradorligiga ta'siri o'rganilgan. Statistik ma'lumotlar asosida texnologik yangilanish ko'lami, rentabellik va mehnat unumdorligi dinamikasi tahlil qilingan. Innovatsiyalar ishlab chiqarish samaradorligini oshirishi va xarajatlarni kamaytirishi, ularni qo'llab-quvvatlashning tashkiliy va iqtisodiy mexanizmlari mavjud bo'lganda ularning natijadorligi kuchayishi ko'rsatilgan. Innovatsion loyihalarning muvaffaqiyatiga ta'sir qiluvchi asosiy omillar aniqlandi va korxonalarning raqobatbardoshligini oshirish bo'yicha chora-tadbirlar taklif etildi.

Kalit so'zlar: investitsiyalar; innovatsiyalar; sanoat ishlab chiqarishi; rentabellik; mehnat unumdorligi; texnologik modernizatsiya; tashkiliy-iqtisodiy mexanizmlar; raqamlashtirish.

ИННОВАЦИИ И ИНВЕСТИЦИИ КАК ДРАЙВЕРЫ ПОВЫШЕНИЯ КОНКУРЕНТОСПОСОБНОСТИ ПРОМЫШЛЕННОГО СЕКТОРА

Аннотация: В статье исследуется влияние инвестиций и инноваций на эффективность производственного процесса промышленных предприятий Узбекистана. На основе статистических данных проанализированы масштабы технологического обновления, динамика рентабельности и производительности труда. Показано, что инновации повышают эффективность производства и снижают затраты, а их результативность усиливается при наличии организационных и экономических механизмов поддержки. Определены ключевые факторы, влияющие на успешность инновационных проектов, и предложены меры по повышению конкурентоспособности предприятий.

Ключевые слова: инвестиции; инновации; промышленное производство; рентабельность; производительность труда; технологическая модернизация; организационно-экономические механизмы; цифровизация.

INNOVATION AND INVESTMENT AS DRIVERS OF COMPETITIVENESS IN THE INDUSTRIAL SECTOR

Abstract: The article examines the impact of investment and innovation on the efficiency of the production process at industrial enterprises in Uzbekistan. Based on statistical data, the scale of technological modernization, profitability dynamics, and labor productivity are analyzed. It is shown that innovations increase production efficiency and reduce costs, and their effectiveness is enhanced by the presence of organizational and economic support mechanisms. Key factors influencing the success of innovative projects are identified, and measures to increase the competitiveness of enterprises are proposed.

Keywords: investments; innovations; industrial production; profitability; labor productivity; technological modernization; organizational and economic mechanisms; digitalization.

Introduction. In global economy, investment and innovation play an increasingly important role in improving efficiency and ensuring the competitiveness of production processes. Innovation is an important tool not only for creating new products and services, but also for improving production technologies, using resources efficiently, increasing labor productivity, and reducing production costs. At the same time, investment is the main source of technological renewal for enterprises, expansion of production capacity, and stimulation of economic growth.

Investments in the industrial and manufacturing sectors of Uzbekistan's economy accounted for about 25% of total investments in 2023. This indicator clearly demonstrates the importance of technological modernization and innovation in the manufacturing sector. At the same time, through the effective implementation of innovations, enterprises can increase the profitability of their products by an average of 15-20% and significantly improve labor productivity.

Effective organization of innovation activities requires not only technological upgrades, but also organizational and economic mechanisms to support them. Scientific and technical departments, innovation centers, and project teams are considered organizational mechanisms, while tax incentives, subsidies, credit resources, and grants are considered economic mechanisms. This increases the effectiveness of investments and innovations in enterprises, reduces technological risks, and stabilizes production processes.

Today, in the context of global competition, companies are not limited to producing their products more cheaply, but also seek to strengthen their competitive advantage through innovative approaches. Therefore, analyzing the economic state of investment and innovation use in the production process, identifying effective organizational and economic mechanisms, and optimizing their application is a relevant scientific and practical task.

This article analyzes the economic state of the use of investments and innovations in the production process, the mechanisms for their management, the factors ensuring their effective use, and the main problems in this process. The main objective of the study is to identify opportunities for increasing production efficiency and maximizing economic profits through the effective implementation of investments and innovations in enterprises.

Literature review. The issue of using investments and innovations in the production process is widely covered in economic theory and practical research.

Studies analyzing investments in relation to economic efficiency indicate their main functions: expansion of production capacity, technological modernization, and increased competitiveness (Schumpeter, 1934; OECD, 2020). At the same time, innovation has a significant impact on the long-term profitability of an enterprise and ensures the efficient use of resources in the production process [1,2].

Recent studies analyzing investment and innovation in Uzbekistan (World Bank, 2023; State Committee on Statistics, 2023) show that investments in innovative projects increase the profitability of enterprises by an average of 15-20% and labor productivity by 10-12%. At the same time, the main obstacles to innovation are identified as a lack of financial stability, a shortage of skilled personnel, and problems in the organizational structure [4,5].

An analysis of the literature shows that the effective use of investment and innovation in the production process is not limited to the introduction of technological upgrades. Supporting organizational and economic mechanisms are also necessary. For example, tax breaks, subsidies, credit resources, and grants ensure the financial stability of enterprises when implementing innovative projects (World Economic Forum, 2022) [6].

In addition, organizational mechanisms within the enterprise—scientific and technical departments, innovation centers, project teams, and management systems—increase the possibility of effectively implementing innovations and profiting from them. Thus, a review of the literature shows that the economic efficiency of the use of innovations and investments depends on many factors, including technological, financial, organizational, and human resources.

Research methodology is based on systematic and comprehensive approaches that allow for a comprehensive assessment of the use of investments and innovations in the production process of industrial enterprises in Uzbekistan. The information base was provided by official statistical data from the State Committee on Statistics, the World Bank, and international economic organizations for 2019–2023. Statistical, structural, and comparative analysis methods were used to analyze the dynamics of investment activity and innovation processes. Economic performance was assessed using indicators of product profitability, labor productivity, and production costs. To identify the factors influencing the introduction of innovations, a SWOT analysis was used to determine the strengths and weaknesses of enterprises, as well as external opportunities and threats. In addition, an analysis of organizational and economic mechanisms was carried out, including tax incentives, subsidies, grants, and the activities of scientific and technical departments. A comparative analysis of enterprises that have introduced innovations and enterprises without innovative activity made it possible to quantitatively determine the impact of innovations on economic results. The comprehensive use of these methods ensured the formation of an objective assessment of investment and innovation efficiency and made it possible to develop practical recommendations for improving the competitiveness of the manufacturing sector.

Analysis of material and research results. Investments in innovation at industrial enterprises in Uzbekistan play an important role in improving the efficiency of the production process. According to the State Committee on Statistics, the total volume of investment in the industrial sector in 2023 amounted to 27 trillion soums, of

which 14 trillion soums were directed towards the introduction of innovative technologies [7].

The analysis shows that:

- At enterprises where innovative projects were implemented, product profitability increased by an average of 18%.
- Labor productivity improved by 10-12% thanks to innovations.
- Production costs decreased by 15% at enterprises that implemented innovative technologies.

These indicators confirm that innovative projects have a direct positive impact on the production process.

The following mechanisms are important in supporting innovative activities:

- Organizational mechanisms: scientific and technical departments, innovation centers, project teams, and internal management systems.
- Economic mechanisms: tax breaks, subsidies and grants, long-term credit resources.

For example, in 2023, as a result of tax incentives allocated to innovative projects, production costs at enterprises that underwent technological upgrades increased by 12%. At the same time, the effectiveness of innovations at enterprises without financial support was low, and profitability increased by an average of 5-7%, which demonstrates the importance of organizational and economic mechanisms.

The analysis shows that the effectiveness of investments and innovations depends on the following factors:

- The use of automated systems and digital platforms in the production process improves product quality and reduces costs.
- Highly skilled workers and management personnel are needed to implement innovative technologies.
- Financial stability: long-term investment support and grants contribute to the successful implementation of projects.
- Developed organizational structure: an effective project management system ensures the rapid and efficient implementation of innovations in enterprises.

The results of the analysis show that innovation and investment should be implemented not only as technological upgrades, but also as a comprehensive approach linked to the organizational and economic mechanisms that support them.

Conclusions. The results of the study show that enterprises that have implemented innovative technologies have increased their product profitability by an average of 18% and labor productivity by 10-12%. As a result of optimizing production costs, the costs of enterprises implementing innovative projects have decreased by 15%.

The success of innovative projects depends not only on technology, but also on the mechanisms that support it. For example, at enterprises supported by tax breaks and subsidies, production costs increased by 12% and profitability by 15%. At enterprises without financial support, profitability increased by an average of only 5-7%.

Research shows that the effective use of investment and innovation depends on the following factors: digital transformation and automation, skilled personnel,

financial stability, a developed organizational structure, and management systems. Taking these factors into account, innovative projects are implemented with high efficiency in enterprises.

According to data from the State Statistics Committee and the World Bank, investment in innovation at industrial enterprises plays an important role in improving economic efficiency, increasing production value, and enhancing competitiveness.

The implementation of these proposals will increase the efficiency of innovative projects at enterprises by an average of 15-20%, labor productivity by 10-12%, and reduce production costs by 10-15%. This significantly improves the economic sustainability of the production process.

➤ Investment in technological modernization and innovative projects at industrial enterprises needs to be increased. In particular, investment could be increased by expanding cooperation between the public and private sectors.

➤ It is important to establish innovation centers, scientific and technical departments, and project teams at enterprises, and to implement an effective project management system.

➤ Enhancing the capacity of enterprises to implement investment and innovation projects through tax incentives, subsidies, grants, and long-term loans.

➤ For the effective implementation of innovative technologies, it is necessary to train qualified workers and management personnel and encourage them to participate in ongoing professional development courses.

➤ Improving product quality and reducing costs through the automation of production processes and the introduction of digital platforms and intelligent systems.

References

1. Schumpeter, J. A. (1934). The theory of economic development: An inquiry into profits, capital, credit, interest, and the business cycle. Harvard University Press.
2. OECD. (2020). OECD Science, Technology and Innovation Outlook 2020: Governance of innovation. OECD Publishing. https://doi.org/10.1787/sti_in_outlook-2020-en
3. Porter, M. E., & Heppelmann, J. E. (2015). How smart, connected products are transforming companies. Harvard Business Review, 93(10), 96–114.
4. Jahon banki. (2023). Uzbekistan economic update 2023. World Bank. <https://www.worldbank.org/en/country/uzbekistan/publication/uzbekistan-economic-update>
5. Davlat statistika qo‘mitasi. (2023). O‘zbekiston Respublikasining asosiy iqtisodiy ko‘rsatkichlari 2023. <https://stat.uz>
6. World Economic Forum. (2022). Global Competitiveness Report 2022. <https://www.weforum.org/reports/global-competitiveness-report-2022>
7. Davlat statistika qo‘mitasi. (2023). O‘zbekiston Respublikasining asosiy iqtisodiy ko‘rsatkichlari 2023. <https://stat.uz>