

INDICATORS FOR THE DEVELOPMENT OF INNOVATIVE ACTIVITIES IN INDUSTRIAL ENTERPRISES

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Abstract:The article describes the theoretical and practical problems of ways to increase productivity through the use of innovative technologies in industrial enterprises. Today, conclusions and proposals were given on the application of digital technologies, which is a new form of innovation, in accordance with the requirements of the times in the new industrial enterprises of Uzbekistan.

Keywords:effective development, innovative management, scientific research and experimental design developments, information and communication technologies, high-tech products, innovative activities, innovative specialization, product diversification, principles of effective management, impact of innovations, financial situation, project financing, funding sources, oil and gas enterprises, effective management methods, overall management structure.

Enter

Currently, innovation is becoming one of the most characteristic features of economic development. Not long ago, this name reminded of something exotic, unknown and not very clear even among professionals, but now the innovation itself and its concepts are rapidly conquering the world. The international capital market, which plays a significant role in the innovation process and turns innovation into a strategic resource for enterprises, is expanding. New financial structures are helping him in this regard. The experience of developed countries shows that innovation is often hindered by direct negative attitudes and attitudes of people. However, a paradoxical situation is developing in Uzbekistan, that is, the whole society expresses positive attitude and support to innovative processes. In particular, it is reflected in many normative legal documents adopted in Uzbekistan and bills widely discussed in social networks. Such regulatory documents as the Decree of the President of the Republic of Uzbekistan dated July 27, 2020 on innovative activities, the Law "On Science and Scientific Activities" are among them. The purpose of adopting these documents is to create favorable conditions for the development of entrepreneurial activities, the creation and development of new entrepreneurs, to help increase the potential and efficiency of the innovative system, and to create a regulatory, legal, financial and informational environment favorable for innovation. It is also to increase competitiveness and productivity in the industry, to encourage the increase of the share of high-tech products, to increase production and to increase the share in the structure of production and export, to expand the application of innovative technologies and advanced management.

The strategy of self-innovation is structured as a set of goals and tasks that allow to move the target object or its individual features from the current state to a more useful state. Features management structure, technology support, features of the financial-economic model, etc. can be understood. An important component of the innovative development strategy is the rules for the implementation of the developed project. Both regulations and strategic development principles ultimately determine the nature of innovation incentives. For example, an enterprise that adapts to such development can passively monitor the market or, in both cases, apply a policy of aggressively occupying new market areas using similar innovative tools.

Relevance of the topic

Initially, the main goals are set for the development, implementation and organization of methods of using innovations, taking into account the factors of instability of the external environment. The tactics of managing innovative development also play an important role, which is understood as a continuous process of developing and implementing strategic tasks. The definition of this tactic is based on taking into account existing problems and expert opinions that allow creating a development model under certain conditions.

The Decree of the President of the Republic of Uzbekistan "On additional measures to increase the industrial potential of the regions" was adopted. The decree is significant in that it aims to create a comprehensive system that supports the rapid development of local industries, as well as to increase the industrial potential of the regions. According to paragraph 13 of the document, the activity of the Electronic Cooperation Portal was transferred to the Ministry of Investments and Foreign Trade.

World experience shows that innovations have not only positive, but also negative effects, which largely determine the problems of their application. To a large extent, all the risks of innovative activities are related to the need for constant support of logistics and scientific activities. research base, in which you can believe that the same advanced business projects will pay off. However, the entire layer of problems of innovative development in Uzbekistan is related to the lack of personnel working in advanced research and development.

Research methodology

Various methods were used in the process of conducting research on the topic of this article. Deductive methods were used in data collection and sorting. The results obtained as a result of the research were drawn as a final conclusion through the method of induction. Statistics have been widely used to compare financial and non-financial data and obtain research results. At the same time, the relationship between corporate governance and organizational behavior was studied through the method of analysis in scientific research. A synthesis method was used to calculate discussion summaries.

A collection of literature

Innovative activity is the result of introducing innovation in order to change the object of management and increase efficiency in economic, social, ecological, scientific and technical and other directions. It is necessary to highlight some differences in the theory and practice of interpreting the concept of "innovative activity". The main reason for this is that in modern conditions, innovative activity is one of the main elements of the innovation management system. Therefore, it has a great impact on its structure, functions, management methods and tools, and activity goals.

According to E. Brinolfsson and B. Kakhin, the digital economy includes innovations, as well as information processing innovations, products and services offered with the help of innovations. According to B. Karlsson and R. Stow, in the developed concept, the influence of innovation on the process of transformation of the economy was developed and it was justified that innovations can play an important role in the development of not only the production sector, but also in the development of the processing system.

Issues related to the problems of improvement based on the application of innovations in industrial enterprises from scientists of the CIS countries: M. Kastells, B. Panshin, A. Sokolov, A. Kunsman, R. Bukht, R. Hicks, M. Polozhikhina, I. Strelkova, M. Kalujsky, S.Plugotarenko, .R.Guseinov, and other scientists are widely covered in scientific research.

Uzbek scientists AVVakhabov, HPAbulqasimov, TSRasulov, NMMakhmudov, DNAkabirova, AMQodirov, ATakhmedova, NRAlimova, ARYokubjonov, ZT Gaibnazarova, Sh.E.Sindarov, UAMadrahimov, OXXhamirayev and others have discussed some theoretical aspects of the national economy in ensuring the stable development of the national economy.

researched in scientific works. It should be noted that in the scientific works of the above-mentioned economists, the mechanisms of increasing the effectiveness of innovative activities in industrial enterprises have not been thoroughly studied as an object of research.

Analysis and results

It should be noted that in 2021, 451.6 trillion will be spent by republican enterprises. industrial products worth soums were produced (108.7% more than in 2020). According to the contribution of the industry producing the largest share in the structure of industrial production, its share in the total industrial production was 83.0%.

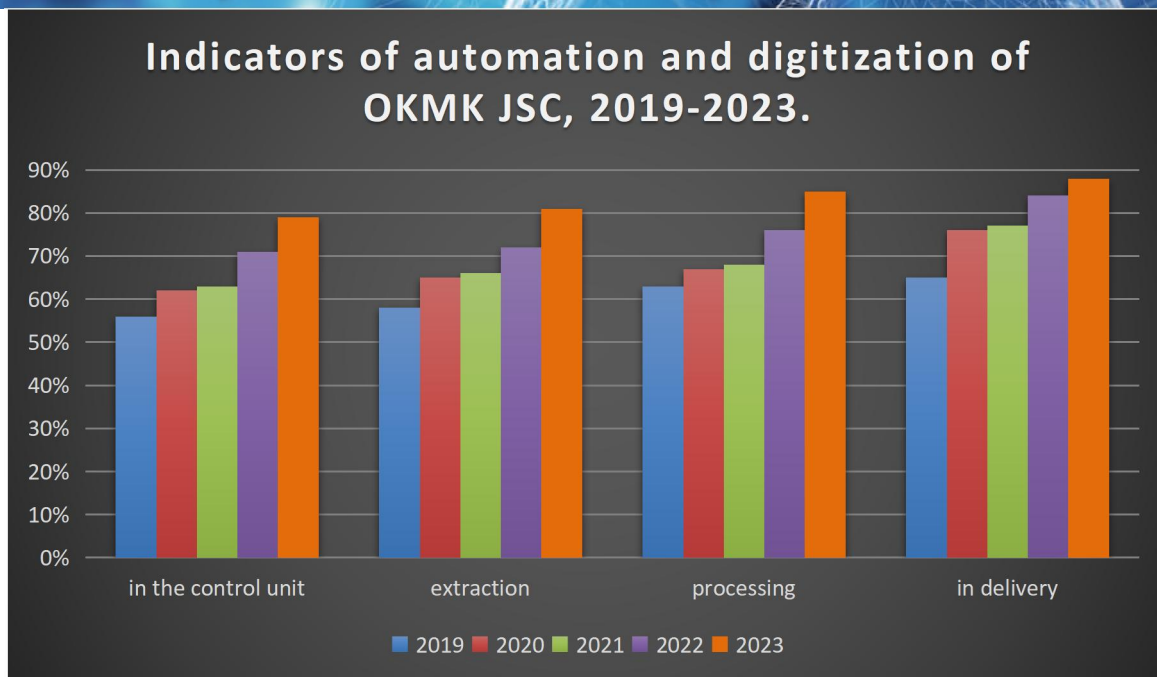
7% of the industrial products produced in our country, 15% of the export volume is accounted for by the Almaliq Mining and Metallurgical Combine. In recent years, as a result of large investments in science and technology, new deposits have been discovered, and the volume of production has increased.

In accordance with the "Year of Science, Enlightenment and Digital Economy Development", as well as in order to fulfill the tasks of the President of the Republic of Uzbekistan Shavkat Mirziyoyev in this regard, within the framework of the national strategy "Digital Uzbekistan - digital economy" in 2030, all aspects of our country's life "Almalik KMK" JSC developed the "Digital OKMK - 2030" development concept covering all aspects.

In order to ensure the implementation of digitization and automation concepts and decisions promoted by our President, the global project on automating the accounting of fuel and lubricants at "Almalik KMK" JSC was implemented in 2023 together with Tanti Group Innovative Technologies. The company is our distributor in Uzbekistan, Tajikistan and Kyrgyzstan. Garvex equipment was produced, delivered and installed in more than 60 objects of OKMK in Uzbekistan in the shortest time. This is one of the strategic steps in the implementation of the "Digital AGMK-2030" concept. By the end of 2022, the total diesel fuel saving at the enterprise was 11.9%, and the improvement and optimization of electronic circulation efficiency was 25%. This result was achieved, in particular, thanks to the AZS-Online program of the Garvex company.

We can see a vivid example of this through the graph below and understand how quickly the level of automation has been established at OKMK.

Looking at the graph given below, we can see that OKMK JSC has seen significant growth figures between 2019-2023. Implementation of innovation and new technological achievements in every structure of enterprise activity and enrichment of domestic and foreign markets with low-cost products was considered as the main priority. At the beginning of 2019, human resources in all 4 mentioned components made up almost half (40-45%), then we must admit that automation has increased by 6-8% during the 1-year period. Taking into account that the COVID-19 pandemic has caused great damage to the economy on a global scale and the technology exporting countries have retreated somewhat, in 2021 this process did not fail to have an impact on OKMK JSC and the growth figures are 0% approached. After passing through such a crisis period, it was able to recover suddenly and in the last 2 years it achieved a growth of 15-20% and transferred 80-82% of its internal structure to automatic mode.



Graph 1.

As a result of this large-scale automation, the Olmaliq Mining and Metallurgical Combine achieved the fulfillment of all production forecasts for the first half of 2024:

- ✓ goods with a value of more than 15 trillion soums were produced, and the set forecast was fulfilled by 103.9%;
- ✓ the task of extracting ore was completed by 100%, copper metal in concentrate - by 105.2%;
- ✓ a 104.7% growth rate was achieved in the processing of copper raw materials;
- ✓ production forecasts of products such as copper sulphate, enamelled copper wire, technical selenium and tellurium, ammonium perrennate, palladium powder, molybdenum 3 oxide were also fulfilled;
- ✓ 454.2 million dollars were used in six months under the approved investment program. This is 107.6 percent compared to the forecast;
- ✓ Within the Localization Program, 169.1 billion soums worth of products were actually produced under 131 projects, and the forecast (146.4 billion soums) was fulfilled by 115.5%, compared to the same period last year, the increase was 121.6 made a percentage;
- ✓ As for exports, in the first half of this year, Almalyk Mining and Metallurgical Combine exported 361,954,000 dollars worth of products, the set forecast was fulfilled by 100.4%.
- ✓ in terms of products, 30,012 tons of copper products and 17,549 tons of zinc products were exported.
- ✓ 446 tons of molybdenum products were exported, and the forecast indicator was fulfilled by 132.8%.
- ✓ products such as rhenium, copper sulfate, palladium powder, and lead concentrate were also exported;
- ✓ last year, the geography of export of combined products expanded. Products worth 14.3 million dollars were exported to new markets - Spain, Austria, Germany, Finland, Canada, the Republic of South Africa and Senegal;
- ✓ payments to the budget amounted to 6140.3 billion soums in the first half of the year.

In addition to these, at the moment, the combine includes departments of road transport, technological transport and industrial railway transport, and they have 2520 vehicles at their disposal. Implementation of the planned will create the infrastructure basis for the long-term digital

transformation of the factory. It applies to the mining activity and transport management of the OKMK, and allows the most effective solution to the problem of automatic or manual management of the work of the State Customs Committee. Their implementation increases the productivity of the excavator-dumping complex by 5-15%, reduces equipment operating costs by 8%, and reduces costs by saving fuel by 5-10%. In particular, it should be noted that 1 trillion soums were saved by OKMK as a result of the introduction of automation and digitization of technological production.

Conclusions and suggestions

Each country implements reforms, defining its economic development strategy. Therefore, the fact that Uzbekistan continues its economic development based on its strategic plans is an important step taken for the benefit and well-being of the people. These large-scale reforms, i.e. modernization processes in the industrial sector, are significant in that they are aimed at strengthening the country's economy. The development of the industrial sector not only strengthens the country's economy, but also ensures the creation of jobs in the country and the export of products to world markets. These innovations, i.e., the establishment of new industrial enterprises, determine the future of the country.

In the coming years, a cluster system will be developed in driver areas based on the principle "From raw materials to finished products". In this:

- The volume of GDP will increase by 1.6 times, the volume of industry by 1.4 times;
- "driver" areas are developed;
- the system of industrial clusters will be developed;
- the production volume of copper and other products will increase by 2 times;
- A number of large-scale projects will be implemented in Navoi, Olmaliq and Bekobod metallurgical enterprises;
- processing of natural gas will be increased from 8% to 20%;
- chemical technology clusters will be established;
- a scientific and educational cluster will be established in the field of chemistry;
- tax rates for the use of underground resources will be reduced;
- tax rates for the use of underground resources will be reduced.

Knowing the importance of these projects to be implemented quickly, President Shavkat Mirziyoyev, on October 15 of this year, familiarized himself with the activities of the Almalyk Mining and Metallurgical Combine and new investment projects and started the construction of this new plant by pressing the symbolic button of the 4th copper beneficiation factory. Through this project worth 5.3 billion dollars, 146,000 tons of cathode copper, 13 tons of gold and 73 tons of silver will be created per year. Annual production volume reaches 1.9 billion dollars. More than 3 thousand people work in the factory and its infrastructure. Italian "Wood" and Great Britain "Worley Parsons" companies were involved in the project. High-tech, ecologically safe and cost-effective technologies are used in production.

Currently, the following main problems that need to be solved in the field of innovative development in the near future remain:

- 1) to improve and increase the volume of financing mechanisms of research and innovation projects in public-private partnerships, to attract funds from international financial organizations and funds, and to provide the necessary skills for entrepreneurship to small and innovative entrepreneurship through technoparks, innovation centers and youth technoparks 'requires support;
- 2) regional programs of innovative development have not been developed taking into account the economic specialization, scientific and technical potential and available resources of the regions, and innovative technologies are required to be emphasized and prioritized in the introduction of solutions aimed at ensuring the continuous renewal of the technical and technological base of production;

3) optimal support mechanisms have not been developed by accepting successful start-up projects as members of innovative technology parks and free economic zones at the stages of serial production, strengthening the interest of the private sector in new scientific developments and "co-financing" of innovations (co -finance) special support measures have not been introduced to encourage interest;

4) In order to create cyclic relations of "radically innovative" - "sustainable" - "efficient" innovations (i.e., innovations) in the republic, capital operation of innovation itself - "network-territory-scientific/higher education organization" cyclicality There is no integrated system, and its main processes remain in a very fragmented form.

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