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Directions for Improving the Innovative Activity Management System of the Republic of Uzbekistan

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Abstract: The article is based on the need to develop a single state innovation policy in the management of innovative activities, the role of this policy as the basis of the national innovation system is indicated, its goals and objectives are defined, directions for its further improvement are proposed based on the analysis of the current situation.

Key words: Innovation economy, state innovation policy, national innovation system, technology transfer, commercialization of developments, spending on ITTKI.

In the conditions of the rapidly changing development of the world economy, Uzbekistan should strengthen its position in the system of world economic relations by increasing its economic and social potential and using it effectively.

The national innovative system, which includes legal, organizational, informational, financial, intellectual and administrative components, should serve the innovative development of the country and the effective use of its intellectual potential.

In order to implement these tasks in Uzbekistan, the Innovative Development Strategy for 2022-2026 was developed and adopted, in which the development goals for the near future were defined[1]. In the development of this strategy, the state of scientific, technical and innovative fields was analyzed, and the results of the implementation of the Innovative Development Strategy for 2019-2021 and the previously implemented programs were taken into account [2].

The experience of most industrialized countries shows the connection between long-term sustainable growth and the transition to innovative development. The level of innovative activity carried out by society determines the rate of economic growth (Schumpeter, J. A. (1912), King, R., & Levine, R. (1993), Aghion, P. et al. (2005)). The relationship between the level of innovative development of the economy and economic growth is the object of research of many researchers. In the case of Russia and China, issues of connection between the level of development of technologies and innovations on the growth of the gross domestic product of the countries Balanova M.M. considered in his works. [3. page 83]. O.R. According to Rayimberdieva and B. E. Matrasulova, "Innovation as a factor of economic growth represents an informational and technically conscious need to change the national economic model in terms of quantity and quality" [page 4.572]. Maradan R.P. led by foreign scientists "Does innovation help economic growth?" based on the study of the relationship between innovation and per capita income growth in 19 European countries [5] research expenditures, the number of patents per 1 thousand population, the number of researchers, the export of high technologies and the number of scientific research articles in scientific journals, and the population studied the correlation between per capita income. This relationship showed that the higher the share of expenditures allocated to science, the higher the number of scientific and technical products, their export and, ultimately, per capita income.

Thus, it can be concluded that innovation is a decisive factor of economic growth. In order for the economy to enter the innovative path of development, an appropriate national innovation system that can activate the country's intellectual potential is necessary.

In the preparation of this article, research was carried out using the method of data analysis, synthesis, qualitative comparison and statistical analysis. In the analytical part of the research, the theoretical developments of scientists studying various aspects of innovative activity were studied, the reports of the World Bank and the Ministry of Innovative Development of the Republic of Uzbekistan were used. The analysis of the materials of regulatory and legal documents, local and foreign news sites, newspapers and articles was used in the work.

In order to form an effective national innovation system, an appropriate legal framework is necessary, which defines the legal guidelines of research and innovation activity and the mechanisms of its regulation. It was an important event that today the two most important laws of the Republic of Uzbekistan "On science and scientific activity" and "On innovative activity" serve as a solid basis for the development of scientific research and innovative activity in our country.

In the field of innovation management in Uzbekistan, the Ministry of Innovative Development was established by the decision of the President of the Republic of Uzbekistan in November 2017, and its tasks include management and coordination of activities in the field of scientific, technical and innovative activities.

A strategic document aimed at unifying the efforts of state bodies and organizations in the field of innovative development in our republic - PF-5544 dated September 21, 2018 and "2022-2026-Decree No. PF-165 of 07.06.2022 "On approval of the innovative development strategy of the Republic of Uzbekistan in 2022" was adopted. The main goal of the strategy is to strengthen the quality of human capital and to include the Republic of Uzbekistan in 2030 among the 50 leading countries of the world according to the Global Innovation Index (GII).

Also, in 2018, the concept of development of science until 2030 was adopted in the Republic of Uzbekistan, which defines the basis for the development of this field in the medium and long term. The concept defines the plan of step-by-step development of science according to the following indicators:

- increasing the share of funds directed to science (relative to the gross domestic product);
- increasing the share of Uzbek researchers in the total number of articles published in international scientific journals;
- wide involvement of young specialists in science and raising the average age of scientists to 39 years;
- renewal of machines and equipment in research institutions and higher educational institutions implementing scientific development projects.

Along with the concept, the Law "On Startups" and the strategy for the development of artificial intelligence in the Republic of Uzbekistan in 2021-2022 have been developed, which is the basis for the formation of the startup ecosystem and is a promising direction for our country.

State spending on science and innovation has increased significantly. In recent years, 950.2 billion soums (198 billion soums in 2018, 324 billion soums in 2019, 428.2 billion soums in 2020) have been allocated from the state budget for the implementation of programs and projects on scientific and innovative activities. According to the data of the State Statistics Committee, as of January 1, 2022 in the Republic of Uzbekistan, the ratio of expenditures on scientific research and experimental design development to GDP was 0.15 percent (Table 1).

Table 1. The share of expenses spent on research and development in the gross domestic product of the Republic of Uzbekistan

Years	The share of expenditures on research and development in relation to GDP, %
2018	0,12
2019	0,11
2020	0,14
2021	0,15

* Source: http://stat.uz

The adopted Innovative Development Strategy for 2022-2026 envisages increasing the share of research and development expenses in the country's GDP to 0.24 percent.

In the fall of 2020, the Ministry of Innovative Development together with the World Bank launched a project to modernize the innovation system in Uzbekistan. As a result of the agreements reached for these purposes, 50 million US dollars are allocated by the World Bank. The main goal is to develop international-class scientific research in Uzbekistan's state scientific-research institutes and higher educational institutions.

In order to increase the activity of mutual cooperation between science, education and production, the position of vice-rector for scientific affairs and innovations was introduced. Thanks to this, innovative funds and departments for the commercialization of scientific and innovative developments were established in each higher educational institution.

Based on the analysis of the current state of the innovation system and its management mechanism, the state innovation policy of the Republic of Uzbekistan should be formulated and implemented based on the following principles:

- transition to innovative thinking in order to increase the effectiveness of the level of technological development of the national economy, the competitiveness of products, the quality of life of the population and environmental safety;
- ensuring the necessary balance of state regulation of innovative activities with effective functioning of the competition mechanism in the innovative field;
- increasing state funding of basic research and concentrating state resources on the creation and distribution of key innovations that ensure progressive structural changes in the economy;
- creation of attractive conditions for public-private partnership in financing start-up and innovative developments;
- strengthening the system of state protection of the rights and interests of innovative activities and intellectual property subjects;
- activation of international cooperation in the field of innovation [11, p. 40];
- improving the information supply of the innovative system by increasing the coverage and quality of the Internet, as well as accelerating efforts to enrich the UZ domain zone with scientific-technical, historical-cultural and research materials [8, p. 16].

All this allows to activate innovative activities and effective use of existing intellectual capital.

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