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# STATE AND PROSPECTS OF THE REPUBLIC OF UZBEKISTAN IN INTERNATIONAL RATINGS OF INNOVATION DEVELOPMENT

Abstract: Trends in the development of the world economic system indicate the growing influence of innovation on the rate of economic growth. In the world market, products of intellectual labor have a higher cost compared to other areas of economic activity. The article examines current trends, state and prospects of the Republic of Uzbekistan in international ratings that characterize innovative processes in the country. Based on the research conducted, the author proposes a number of directions for enhancing innovation processes in Uzbekistan.

Key words: global innovation index, innovation, innovation process, international rating, economy of Uzbekistan.

Language: English

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### Introduction

#### UDC 338.242

Market demands dictate the need to create conditions that determine the widespread use of innovations and the innovative susceptibility of the economy. Innovation processes have an impact not only on production, but also on almost all aspects of social life. As a result, the structure of consumption of material and non-material benefits is being improved, new spheres of human life are being created [1,2,3,4,5,6,7,8].

In this regard, the issue of assessing the level of development of innovations in the countries of the world is becoming more and more relevant every year. Today, there are several international indices that assess the innovative development of countries, both partially and completely. The first category includes the Global Competitiveness Index, which identifies a separate block for analyzing the factors that characterize innovation processes. In turn, the Global Innovation Index (GII) and Bloomberg Innovation Index (Bloomberg Innovation Index) are fully devoted to assessing innovation processes [9,10,11].

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The Global Competitiveness Index and the Bloomberg Innovation Index use fewer indicators and replicate those used in the Global Innovation Index. For example, and the Bloomberg Innovation Index, a country is ranked according to indicators such as R&D expenditures from GDP, gross value added of industry, level of productivity, the share of innovative enterprises in the total number of companies, the share of university graduates, the number of researchers per 1 million of the country's population, patent activity. [12]. Also, this Index in 2009 included only 60 countries.

#### Analysis of literature on the topic

The problem of innovative development of the economy has become relevant recently and occupies a leading position in the works of foreign and domestic scientists. I. Schumpeter [13], who was actually the founder of the theory of innovative development, was one of the first issues of the innovation economy. P.A. Fatkhutdinov [14], I. L. Kalyuzhny [15], S. I.



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Abramov [16]. Professor R.A. Fatkhutdinov, among the methods of innovative management, emphasizes the methods of personnel management of an organization aimed at innovation and competitiveness. Issues related to the analysis of innovation processes have been studied in the works of such authors as JJYun [17], S. Wootton [18], A. Leckel, Veilleux, S., & Dana, LP [19], Karhade, P., & Dong, JQ [20], Ridley, M. [21], Malhotra, A., & Schmidt, TS [22], Loorbach, D., Wittmayer, J., Avelino, F., von Wirth, T., & Frantzeskaki, N [23], A. A. Yakushev, A. V. Dubynina [24] and others. Such domestic scientists as A. M. Kodirov [25], M. A. Makhkamova study the innovative activity of industrial enterprises. [26], M. A. Ikramov [27], D. V. Trostvansky [28], Kholmuminov, A. Kh. [29], K. I. Kurpayanidi [30,31,32,33,34] and others. At the same time, the issues of innovations and tendencies of the international ranking remain insufficiently studied in the scientific literature.

# **Research methodology**

The study used methods of analysis and synthesis, induction and deduction, comparative analysis, correlation and regression analysis, economic and mathematical modeling. Analysis and results.

# Analysis and results

The Global Innovation Index (GII) is a global benchmarking tool that enables policymakers to better understand incentives and quantifies innovation as a major driver of economic and social development [35]. GII 2020 evaluates 129 countries and territories based on 80 different parameters. Thus, the GII is one of the most important tools for assessing innovation in the world.

The last time Uzbekistan was ranked 122nd out of 141st countries in the 2015 GII ranking. Then Russia took the 48th position, Kazakhstan - 82nd, Kyrgyzstan - 109th, Tajikistan - 114th.

In the past five years, Uzbekistan has dropped out of the GII ranking. The main reason was insufficient data on GII indicators and old figures of existing statistics.

It is known that one of the main tasks set in the Presidential Decree "On Approval of the Strategy for Innovative Development of the Republic of Uzbekistan for 2019-2021" is the country's entry into the top 50 countries in the Global Innovation Index by 2030.

To achieve this ambitious goal and address existing gaps, the Ministry of Innovative Development with the assistance of Cornell University, WIPO, the UNESCO Institute for Statistics, the International Monetary Fund, the International Labor Organization, the United Nations Statistical Office and the World Trade Organization, the World Bank, the International Organization for standardization, Thomson Reuters, UN Industrial Development, Wikimedia and more than 15 international organizations held a number of meetings and individual negotiations to study the problems that prevent Uzbekistan from being included in the rating.

To include our country in the GII ranking and systematically solve existing problems, on October 29-31, 2019, within the framework of the Week of Innovative Ideas "InnoWeek-2019", a round table was held on the topic "Improving the position of the Republic of Uzbekistan in the Global Innovation Index" with the participation of the WIPO leadership, representatives of Elsevier and other foreign organizations. Opinions on 18 GII international indicators, 5 World Economic Forum polls and quantitative statistics on 57 indicators were discussed.

Based on the identified problems, in accordance with the requirements of the GII for 2020, statistical data on at least 66 percent of the indicators (out of 80) required for assessing countries have been processed and submitted to international organizations through the relevant ministries and departments.

As a result, after a long break in the GII-2020 ranking, Uzbekistan was assessed by 43 incoming and 22 outgoing indicators and took 93rd place out of 131st countries. Switzerland took 1st place, Sweden -2nd, USA - 3rd, Russia - 47th, Kazakhstan - 77th, Kyrgyzstan - 94th, Tajikistan - 109th.

The return of Uzbekistan to the GII is 29 steps higher than five years ago, and is the first result of reforms, in particular, the policy of transparency and openness, as well as positive changes in the innovation sphere.

In the ranking of the Global Innovation Index-2020, which consists of 80 indicators, Uzbekistan ranks 81st in the world in terms of innovative resources, that is, according to the cost sub-index, which is based on institutions (95th place), human capital and research (77), infrastructure (72), knowledge and technology efficiency (90).

The republic is among the top ten countries in the GII ranking in 2020 for the following sub-indicators: ease of starting a business - 8th, graduates of scientific and engineering specialties - 7th and gross capital formation - 8th. At the same time, the country took 12-45th places in 8 important indicators.

In addition, according to the following indicators, Uzbekistan still has low indicators: the quality of legislation - 127th, the rule of law - 124th, export of ICT services - 129th, gross expenditures on research and development funded from abroad - 96th position.

The Global Innovation Index scores and data for 2020 show that Uzbekistan is among the top 50 countries in the world in 14 out of 80 indicators assessed this year. These are "Public spending on education" (31st place), "The ratio of students to teachers, secondary education" (38)," E-government services" (48), "Ease of protecting minority investors"



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(36), "Patent applications for origin" (45), "Increasing labor productivity" (12) and "Export of cultural and creative services" (33).

Studies have shown that there are some problems and difficulties in the field. In particular, the development of innovation processes in Uzbekistan is hampered by a number of problems [36,37,38,39,40,41,42,43,44,45,46,47,48,49]:

Existing research institutes and universities do not cover the needs of enterprises in certain developments, as well as in their quality. In this regard, enterprises have to activate and strengthen their own scientific potential and reduce the number of orders for research in universities and research institutes. Also, a large number of organizations performing R&D are engaged in research and development, and not design and engineering and technological. Hence, there is a bias of enterprises towards the provision of scientific and technical services.

The existing funding for R&D does not provide the necessary significant increase in scientific and technical developments. Insufficient funding for research activities in Uzbekistan in the medium term can lead to a significant slowdown in technological progress and the competitiveness of the national economy. UNESCO recommends developing countries to bring R&D spending to 1% of GDP.

Despite the fact that most of the funding for R&D spending comes from government spending (55.7% in 2018), the public sector and the higher education sector cannot fully absorb this investment in research. There is a process of reallocation of R&D costs from the public sector to the entrepreneurial one. The interest of enterprises in research-by-research institutes and universities is decreasing.

The country is dominated by the costs of applied research, which provide scientific and technological progress, typical for countries with an industrialoriented economy. However, the role of fundamental research, although not rejected, was in the background. This has led to a lack of fundamental theories and research, which are the basis for applied research and the initial impetus for technological progress.

The level of enterprises that have introduced innovations in the country is rather low (0.30%) compared to world estimates (40% on average). The difficulties of commercialization and new technologies are associated with the lack of a developed technology transfer system, an appropriate regulatory framework and the experience of interaction between science and industry.

The mechanisms for attracting investments in innovative developments are imperfect. In world practice, the most effective mechanisms are business incubators, technology parks, technology transfer agencies. There are practically no such mechanisms in the republic.

# **Conclusion and recommendations**

Based on the foregoing, the following key areas for the further development of innovative activity in the country should be:

Improve legislation in the field of innovations, in particular, adopt a law on innovation, a provision on state order for R&D, on the procedure for registering, recording and transferring rights to R&D results, as well as on the procedure for registering, financing and recording costs for the implementation of scientific and technical projects.

Create funds to support science and innovation at regional centers of innovative ideas, developments and technologies. Send to the fund 10% of the net profit received from the activities of the centers. The main directions of the fund's activities are to determine:

□ allocation of funds to research projects to create a prototype;

☐ financing promising research and development projects of a practical nature and aimed at solving specific problems to improve the economic situation in the region;

☐ financial support for obtaining a patent for the most successful developments and others [50-52].

In terms of spending the funds of the Fund for Supporting Innovative Development and innovative ideas, include funds for the implementation of the program, the implementation of research and development projects.

At the same time, with the participation of the Fund, at least 30% of projects should be financed. Funding for such projects occurs on the principle of allocating from 50% to 100% of the required amount for the implementation of the project.

Strengthen interaction between specialized industry universities and research institutes with industry enterprises. Development of research parks, which have closer ties with universities than technology parks, in which highly qualified personnel and large volumes of science-intensive research are concentrated.

To improve the system of transfer and commercialization of scientific developments being created in the country. Namely, to determine as a central body a scientific and practical center for the implementation of innovative developments under the Ministry of Innovative Development in the technology transfer system being created in the country.

To develop a legislative and legal basis for the functioning of technoparks, providing for the adoption of an appropriate law.



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