



ATTENTION TO SCIENCE IN NEW UZBEKISTAN AND DEVELOPMENT OF COOPERATION WITH FOREIGN COUNTRIES

Submission Date: September 19, 2023, **Accepted Date:** September 24, 2023,

Published Date: September 29, 2023

Crossref doi: <https://doi.org/10.37547/history-crjh-04-09-04>

Journal Website:
<https://masterjournals.com/index.php/crjh>

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ABSTRACT

The attention to science, which began in the early period of independence, brought about many significant changes in our country. In the current era, which is called New Uzbekistan, these positive activities have undoubtedly reached their peak.

As the first President of the Republic of Uzbekistan, I.A. Karimov, said: "A deep truth should be clear to all of us - no matter how well-thought-out programs we create for the future development of our country, what material base and opportunities we create for the implementation of these plans, how much investment we mobilize for this, There is a powerful factor that implements and realizes all of them, and if it is a highly qualified labor force and our mature professional youth who are able to take responsibility for the future and development of our country, I think it will be no mistake" [1]. On the basis of the above, certain works were carried out in Uzbekistan in connection with these works.

KEYWORDS

President Sh.M.Mirziyoev, from the first years of his work as the President of the country, carried out comprehensive reforms in the field of science as well as in all other fields in New Uzbekistan.

INTRODUCTION

Pursuant to the decision PQ-3698 of May 7, 2018 of the President of the Republic of Uzbekistan "On additional measures to improve the mechanisms for introducing innovations into economic sectors and industries" [2], fundamental improvement of the mechanisms of state

regulation of innovation activities, economic sectors and in order to create conditions for more effective introduction of innovations in the fields of science and technology, 36 deputy directors for science of research institutions and 78 vice-rectors for scientific affairs of



higher education institutions were appointed to the position of vice-rectors for scientific affairs and innovations.

Also, within the framework of the execution of this decision, units for commercialization of innovative funds and scientific and innovative developments were established in the structure of higher education institutions. More than 3.8 billion soums have been formed in the funds. Within the framework of the state scientific and technical programs, practical scientific and technical projects and innovative developments for 2019-2021 were formed step by step based on the priority directions and tasks of innovative development of economic sectors and fields, taking into account foreign experiences, and grants were constantly announced.

In particular, in 2018, a total of 1,748 projects were financed in the amount of 193.4 billion soums, of which 912 were practical projects and 114.5 billion, fundamental projects were 369 and 38.2 billion, innovative projects were 285 and 32.9 billion. practical projects of scientists - 165 and 6.3 billion, and international scientific and technical projects - 17 and 1.3 billion soums. Continuous monitoring of the effectiveness of these projects was carried out.

According to the decision of the President of the Republic of Uzbekistan No. PQ-3899 dated August 6, 2018[3], the Presidential Fund for commercialization of the results of scientific and scientific and technical activities was established under the Ministry of Innovative Development. 15 scientific inspection institutes of the Academy of Sciences to all issues related to the commercialization of 43 developments approved in accordance with the decision of the President of the Republic of Uzbekistan dated July 14, 2018 No. and 6 commercial banks were involved.

32.3 million US dollars were allocated in 2018-2021 to strengthen the material and technical base of research institutions. In 2018-2021, 1.9 million US dollars were allocated to the continuous supply of necessary consumables (reagents) to research institutions.

In 2018-2022, a total of 88 normative legal documents related to science and innovative activities were adopted - 3 laws, 6 presidential decrees and 28 decisions, 40 decisions and 12 orders of the Cabinet of Ministers. As a result, an atmosphere of competition, interest and accountability was formed in the industry. It is possible to learn from the following information that a very large amount of funds are allocated in the new Uzbekistan with special attention to the development of science and innovation.

- In 2018, the "Innovative Development Strategy of the Republic of Uzbekistan in 2019-2021" was adopted, and in 2022, the "Innovative Development Strategy of the Republic of Uzbekistan in 2022-2026" was adopted;
- A new grant system of financing scientific projects was introduced by forming a state order for scientific research works based on the orders of network enterprises and the social sector;
- The amount of annual funds allocated from the state budget to the fields of innovation and science was increased by 3 times and the amount of project financing was increased by 3.5 times, in particular, 40 percent of the funds were directed to the purchase of necessary equipment, reagents and materials;
- The management system in the field of science has been improved, in particular, a national rating system aimed at evaluating the effectiveness of scientific and innovative activities of scientific organizations has been introduced;



- The number of young scientists was increased by 1.5 times, in particular, from 6.5 thousand people (indicator in 2018) to 10.8 thousand people (indicator in 2022);
- Basic salaries of employees with academic degrees in higher education and research institutions were increased by 3.2 times, and the procedure for paying additional wages to employees based on target indicators was introduced;
- The material and technical base of scientific research institutes has been fundamentally renewed, and a total of 160.16 billion was provided to them over the course of 5 years. 272 types of laboratory equipment worth soums were supplied;
- The system of financing science and scientific activity has been diversified, the funds allocated to science and innovation from industrial enterprises and the private sector have increased threefold in 2018-2022, in 2022 (954 billion soums were spent) from state funding (allocated 591 billion soums) 1 increased by 6 times [5].

One of the important actions aimed at the further development of science in new Uzbekistan was the adoption of the Law No. O'RQ-576 "On science and scientific activity" [6] on October 19, 2019. The Law of the Republic of Uzbekistan "On Science and Scientific Activities" consists of Chapter 6 and Article 46.

On August 30, 2019, "Resolution PQ-4433 of the President of the Republic of Uzbekistan on measures to improve the system of attracting young people to the field of science and supporting their initiatives" [7] was adopted.

On October 29, 2020, Uzbekistan No. PF 6097 "On approval of the concept of development of science until 2030" on October 29, 2020, in accordance with the

state program on the implementation of the Strategy of Actions on the five priority directions of the development of the Republic of Uzbekistan in the "Year of Development of Science, Enlightenment and Digital Economy" in 2017-2021 Promulgation of the decree of the President of the Republic [8] was also important.

In his address to the Oliy Majlis on January 24, 2020, President Sh.M. Mirziyoev stated that "we aim to turn Uzbekistan into a developed country, and we can achieve this only through rapid reforms, science and innovation."

Decree No. PF-6198 "On improving the state management system for the development of scientific and innovative activities" and PQ-5047 No. "Measures for further improvement of state policy in the field of science and innovation development" adopted by our president on April 1, 2021 The approval of the program of measures in connection with the Decision "on the activities" started a new stage of science and innovative development in Uzbekistan.

Also, to determine the priority directions for the development of science and scientific activity and its regular reform in the future, to raise the process of training highly qualified personnel with modern knowledge and high spiritual and moral qualities, who think independently, to a new level in terms of quality, to modernize scientific research institutions, modern "Concept of development of science until 2030" was adopted in order to develop the rapid application of innovative technologies to economic sectors and the social sphere [9].

Thanks to the developed measures, Uzbekistan's position in international rankings began to improve. According to the 2021 results of the Global Innovation Index, which determines the innovative development trends of the countries of the world, Uzbekistan took



the 86th place among 132 countries, and therefore entered the top 10 countries with the greatest progress [10]. Uzbekistan's position in the rating has increased by 7 points compared to last year, and by 36 points compared to 2015.

In order to improve the innovative development of the country, it is necessary to strengthen the activity of venture funds. Venture investments have contributed to the development of many companies and products. For example, when the two founders of Google invested 200,000 US dollars, the current capitalization of the company exceeds one trillion US dollars.

At the end of December 2022, the Ministry of Innovative Development was transformed into the Ministry of Higher Education, Science and Innovation. There have been unique changes in the development of cooperation with foreign countries. In particular, on October 8, 2018, the President of the Republic of Uzbekistan Sh.M. During his official visit to France, Mirziyoyev met with the Director General of UNESCO, Audrey Azoulay, and jointly signed a program aimed at developing UNESCO relations with Uzbekistan until 2021. In 2019, grants of about 40 billion soums were announced in cooperation with India, Turkey, Great Britain, South Korea and China.

On April 8, 2022, the sixth meeting of heads of science and technology of the member states of the Shanghai Cooperation Organization was held in Tashkent.

This event, which has been held since 2010, is an effective platform for establishing and improving scientific-technical and innovative cooperation, and serves to further strengthen mutually beneficial ties in the SCO territory.

The leaders of the ministries responsible for the development of innovation, technology, education

and science of the SCO countries took part in this conference hosted by our capital.

The Minister of Innovative Development of the Republic of Uzbekistan Ibrahim Abdurahmanov and the Secretary General of the SCO Zhang Min welcomed the participants.

It is known that today world science is rapidly developing in the fields of artificial intelligence, nanotechnology, biotechnology, space exploration, medicine, "green" energy and many others. Life itself proves that the close cooperation of states and peoples in these fields is always one of the important factors that lead to the development of society. In this sense, it is very important for Uzbekistan to strengthen cooperation with advanced countries of the world in all spheres of the economy, including science and innovation.

- today, on the initiative of President Shavkat Mirziyoyev, special attention is being paid to stimulating scientific and innovative activities in our country, - said Ibrahim Abdurahmanov. - After all, the innovative development strategy adopted in Uzbekistan envisages that our republic will be among the 50 strongest countries in the world by 2030. Two important laws of the Republic of Uzbekistan "On science and scientific activity" and "On innovative activity" have been adopted in order to accelerate the development of science and innovation in our country. Currently, these documents serve as a solid ground for the development of scientific and innovative activities in our country.

A number of joint scientific projects are being implemented within the framework of partnership with India and the Russian Federation, and active cooperation is being carried out in the scientific and technical direction.



A meeting with German experts was held at the Scientific-Research Institute of Cotton Selection, Seeding and Cultivation. Florian Nitzsinger, head of the GIZ cotton development project in the field of agriculture, Gina Burgard, project study and advisory system coordinator at the main body of the organization, Dina Burgard, manager of the development of long-term and short-term concepts of projects at the main body of the organization expert Steffen Noleppa and the organization's expert consultant in the field of agriculture, Joachim Lentz, the leadership of the scientific institution met.

The meeting was opened by the deputy director of the institute for scientific affairs and innovative developments, doctor of agricultural sciences, professor F. Teshaev, who briefly informed his German colleagues about the institute's history, scientific potential, and the work it has done.

Florian Nitzsinger, the head of GIZ's cotton development project in the field of agriculture in Uzbekistan, expressing gratitude for the warm relations and giving information about the activities, goals and tasks of GIZ organization, said that this organization has three areas in Uzbekistan - cultivation and creation of environmentally friendly cotton varieties, textile industry in processing cotton raw materials. emphasized that they will carry out work on the development and creation of new jobs, the development of the priority directions of the development of the added value of cotton in the cotton industry.

During the discussion, Florian Nitzsinger emphasized that the first of the three tasks of the GIZ organization mentioned above is inextricably linked with the activity of the institute.

On January 14, 2022, a Memorandum of Understanding was signed between the Oxford Center for Islamic

Studies and the Imam Moturidi International Research Center under the International Islamic Academy of Uzbekistan.

Extensive cooperation relations in the field of science have also been established between Uzbekistan and Iran.

The economies of Uzbekistan and Iran complement each other in a mutually beneficial way, and the scope of cooperation in such fields as biotechnology, textiles, electrical engineering, chemistry, pharmaceuticals, construction materials production is expanding year by year.

It should be noted that as a result of the large projects being implemented, the number of enterprises with the participation of Iranian capital in Uzbekistan has increased 4 times over the last 5 years. The activation of bilateral dialogues and mutual exchanges is observed, and the number of trade indicators and cooperation projects is also increasing. If we look at the numbers, the trade has increased by 73% in the past year and by 22% since the beginning of this year.

On July 19 of this year, our President received Sorena Sattori, Vice President for Science and Technology of the President of the Islamic Republic of Iran, who was on a business visit to our country.

Uzbekistan-Iran science and innovation forum was held as part of the visit. The basis of multifaceted cooperation is to further expand cooperation in the field of science, innovation and technology, to expand cooperation in conducting joint scientific and practical research, and as a result, special attention was paid to attracting the private sector to finance research and venture initiatives.

As part of this forum, an exhibition of products of innovative companies and startups of Uzbekistan and



Iran was organized in the exhibition hall of the Ministry of Innovative Development.

Cooperation between the Republic of Uzbekistan and the Republic of Belarus in the field of science and technology is also developing widely. On October 29, 2021, the second meeting of the Uzbekistan-Belarus joint commission on cooperation in the field of science and technology was held. The meeting was chaired by the Minister of Innovative Development Ibrahim Abdurakhmanov from Uzbekistan and the Chairman of the State Committee for Science and Technology of the Republic of Belarus Alexander Shumilin. At the meeting, the current state and prospects of scientific and technical cooperation between Uzbekistan and Belarus, activation of directions of scientific and technical cooperation, implementation status of joint scientific projects implemented in 2019 - 2021, results of joint scientific projects competition, list of scientific projects to be completed in 2021 - 2023, as well as other events organized in cooperation were discussed. It should be noted that in 2019-2021, 15 projects were implemented within the framework of the Uzbekistan-Belarus scientific and technical cooperation program, and a number of important scientific results were obtained as a result of them. Now, additional financing is required to organize the commercialization process of these projects. This issue was discussed at the event, and an agreement was reached on the allocation of additional funds for the preparation of commercialization of the scientific developments obtained as a result of these projects.

The parties agreed to increase the number of joint scientific projects to 30 in 2021-2023. It was noted that by the end of this year, 50 young scientists should be sent to Belarusian scientific institutions for internship and their number should be increased in the following years.

As a result of the discussions during the event, the scientific areas to be implemented in cooperation were confirmed, including Energy and energy conservation, Medicine and medical technologies, Pharmaceuticals and pharmacology, Nano and biotechnology, Chemical technologies, New materials, Digital economy, Food safety, Agro-industrial technologies, Smart nature management (reasonable use of nature), prevention and elimination of consequences of natural disasters, water resources management technologies, mineral extraction technologies, laser technologies and photonics were identified as priorities.

In addition, it was agreed that a competition for joint startups will be announced and the activities of the startups will be organized on the basis of the newly established "INNO" technopark in our capital. In general, it was noted that the two countries should increase the number of conferences, forums, exhibitions, experience exchange programs in the field of science.

The commission decided to hold the third meeting of the Uzbekistan-Belarus joint commission on cooperation in the field of science and technology in 2023 in the Republic of Belarus. The President of the Republic of Uzbekistan Shavkat Mirziyoyev took part in the second meeting of the leaders of Central Asia and Europe held on June 2, 2023 in the city of Cholpan and gave a speech. In his speech, the President focused on priority and mutually beneficial areas of cooperation and emphasized the following. "Seven branches of European universities are successfully operating in Uzbekistan. In the near future, we intend to establish partnerships with leading higher education institutions of the European Union and introduce joint educational programs, primarily in technical specialties.

We are in favor of reviving regular meetings of education ministers and university rectors in this format. We propose to consider the possibility of



expanding support for research and educational projects for the Central Asian region within the framework of the "European Horizons" program [11].

In general, as a conclusion, it should be noted that the development of many important measures for the further development of science in New Uzbekistan will serve as an important factor in ensuring future development.

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