



ANALYSIS OF FUNDS FROM THE STATE BUDGET TO SCIENTIFIC ORGANIZATIONS FOR THE FIGHT AGAINST CORONAVIRUS INFECTION "COVID-19"

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ABSTRACT

This article provides an analysis of the funds allocated from the state budget for scientific research and studies related to the coronavirus pandemic and the analysis of scientific research carried out by scientific organizations.

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INTRODUCTION

Today, pandemic efforts are underway around the world. All countries of the world are working to develop pandemic mitigation and proposals, as well as a vaccine against covid-19. Work is underway on information and analytical services for the branches of science, including the preparation of digests and bulletins on the latest innovative technologies and scientific developments in the country and in the world, as well as the national report on the science of the Republic of Uzbekistan for 2017-2020.

COVID-19 vaccine development digests are prepared and published on a daily basis.

Discussion. Scientific organizations have access to leading databases of scientific and technical information, such as Springer Link (Springer Nature), Clinical Key (Elsevier), Wiley (John Wiley & Sons, Inc.), etc., conduct training webinars, and provide technical support.

To select scientific and innovative developments, to attract investors for commercialization, the portal "Customer-scientist-Investor" was launched, which registered a series of 530 developments.

Transfer of technologies is carried out and the introduction of new high technologies into the country's economy. On the basis of the transfer of foreign advanced technologies, investment projects with a total value of \$ 28.7 million are being developed: the Uzbek-Chinese pharmaceutical technology park - \$ 10 million, JV NOVOL ASIA - \$ 1.5 million, Maya international infrastructure LLC - \$ 6 million US dollars, SP Chirana Asia - 6 million US dollars, DMC Clinic - 5.2 million US dollars.

V.Chirana Asia LLC presented the first ventilator under the brand name "Made in Uzbekistan". It is planned to establish its mass production.

The International Center for Molecular Allergology was established. The center launched a system to analyze more than 282 allergens using DNA chip technology. Transfer of technology of aerobiological monitoring system for allergens was carried out. The data generated by this technology is regularly monitored from the website of the European Community health care providers - www.polleninfo.org. The Italian company Lanzoni s.r.l has delivered eight pollen traps, installed in four regions of the country.

Watergen technology for air production in Bukhara, Q-scan device and "Electronic bell" for secondary schools, "Plant Clinic", "Smart Station", Q-box device for autonomous resources in the Cypkhandara region were introduced. In collaboration with the Japanese corporation OYO, the saxaul cultivation technology has been transferred to a completely new closed-root system for planting desert plants. The joint venture Medical Manufacture Center LLC was the first in Central Asia to launch the production of innovative medical products and implants.

Together with the Smart Chain company, innovative travel projects "Smart Cards" based on VR technology, "Smart Card" of Samarkand have been implemented. The Smart School software has been successfully implemented in 10 schools in Fergana.

Also, in 2018-2020, in order to develop innovative entrepreneurship, attract investors to the industry, and commercialize scientific results, the innoWeek International Week of Innovative Ideas was held three times. In particular, this year, for the first time, the fair was organized interactively through an online platform. Scientists, investors and entrepreneurs from more than 40 foreign countries took part in InnoWeek.

For the development of innovative activities, 1,423.2 billion soums were allocated from the state budget for 2018-2020, of which the total amount of funding for 2020 amounted to 604.5 billion soums. The bulk of the allocated funding (67%) is directed to government programs related to scientific activities. During 2018-2020, based on the proposals and needs of sectoral ministries and enterprises, research institutes and universities, research centers, 117.2 billion soums were allocated for 147 projects. A competitive environment has been created between scientific organizations. 40% of funds within the framework of projects are directed to the purchase of modern laboratory equipment, reagents and materials in scientific organizations.

Moreover, within the framework of co-financing research projects with the private sector and industry organizations, 30 billion soums of additional funds will be allocated for the implementation of research programs.

Work has begun to strengthen the work of the Office of the National Coordinator in Uzbekistan in terms of providing assistance to the scientific and innovative community in participating in competitions and events of the 9th Framework Program of the European Union for the Development of Scientific Research and Technology "Horizon Europe".

For the first time in the republic, the English for Science project has been launched, within the framework of which free training courses are organized aimed at improving the knowledge and skills of domestic scientists and researchers in the English language.

In general, this center already today has all the prerequisites to become the leading intellectual agency in the field of science and innovation in the Central Asian region and is able to provide a full range of information and analytical services at the international level.

Resolution of the President of the Republic of Uzbekistan No. PP-4679 of 15.04.2020 "On measures to ensure the stability of the State Budget of the Republic of Uzbekistan during the coronavirus pandemic and timely funding of priority measures";[1]

2. The following should be identified as priorities to ensure the stability of the State Budget of the Republic of Uzbekistan and the optimization of budget expenditures during the coronavirus pandemic and the global crisis:

- implementation of urgent measures to combat the spread of coronavirus infection;
- ensuring full implementation of significant social expenditures;
- analysis of the state of socio-economic activity in the world and in the republic and the transfer of projects and expenditures that are not considered relevant based on the level of importance;
- taking into account the priority and social orientation of projects in reducing budget funds allocated for the implementation of state programs;
- ensuring full implementation of internal and external obligations of the state, including payments for goods, works and services provided on the basis of civil law contracts, as well as obligations under public-private partnership projects;

Innoweek International Innovation Ideas Week was held three times in 2018-2020 in order to develop innovative entrepreneurship, attract investors to the industry, commercialize scientific results. In particular, this year, for the first time, the fair was organized interactively through an online platform. Innoweek was attended by scientists, investors and entrepreneurs from more than 40 foreign countries.

The practice of testing for coronavirus infection at the Center for Advanced Technologies has been successfully mastered. For this purpose, a special laboratory for the detection of SARS-Cov-2 virus has been established at the center. BioTestLab, a manufacturer of reactive kits for clinical biochemical analysis, has been established.

1423.2 billion soums were allocated from the state budget for the development of innovative activities for 2018-2020, of which the total funding for 2020 amounted to 604.5 billion soums. The main part of the allocated funds (67%) is directed to government programs related to scientific activities. During 2018-2020, based on the proposals and needs of line ministries and enterprises,

research institutes and universities, research centers, 117.2 billion soums will be allocated for 147 projects. A competitive environment has been created between scientific organizations. 40% of the funds are directed to projects aimed at the purchase of modern laboratory equipment, reagents and materials for scientific organizations.

In addition, 30 billion soums will be allocated for the implementation of research programs in the framework of co-financing research projects with the private sector and industrial organizations.

In turn, the Fund for Support of Innovative Development and Innovative Ideas has allocated 52.3 billion soums for equipping research laboratories of research and higher education institutions with 95 types of modern equipment in 2018-2020.[2]

The Ministry of Innovative Development of the Republic of Uzbekistan within the framework of state scientific programs to form and finance research projects aimed at creating new effective methods and technologies of disease treatment, improving the quality and efficiency of medical services, improving the quality of health care and public health special attention is paid.

In 2021, the republican budget will allocate 3 trillion soums for the fight against the coronavirus pandemic and the purchase of vaccines, and as of July 15, 2021, 1.7 trillion soums have been disbursed.

At present, in the framework of state programs on scientific activities in 27-34 rounds in the field of "Medical Sciences" the total amount of 89.1 billion soums. Competitions for practical and innovative projects on 42 topics and 11 topics worth 22.5 billion soums in the field of "Pharmacology and Pharmaceutical Sciences" have been announced, and the acceptance of scientific projects in electronic form continues.

Scientific organizations under the Ministry of Health are currently implementing 145 research projects worth 53.5 billion soums, including 20 fundamental projects worth 4.1 billion soums and 124 applied projects worth 47.6 billion soums., 2 innovative projects worth 1.6 billion soums and 1 international joint project worth 0.13 billion soums (Uzbekistan-Germany).

It should be noted that the amount of grant funding for research organizations in the health system is growing from year to year. In particular, in 2017, 73 research projects of scientific organizations in the health system amounted to 4.8 billion soums. In 2018, 191 research projects worth 24.7 billion soums. The amount of funds allocated for research projects in 2020 will increase 2.2 times compared to 2018, and the funds will be directed to the creation of a specific scientific product, rather than increasing the number of projects.

For comparison, in 2019, 72 thematic projects were submitted by research institutes, higher education institutions and research centers in the health system as a state order for research work. The submitted thematic project orders were considered by experts and are of current importance and total value of 12.3 billion soums. Thematic topics were formed for 22 projects worth UZS 1 billion and announced in rounds 1-17 of the competitions within the framework of state programs on scientific activity.

Results. In January-October this year, 53 thematic topics in the field of "Medical Sciences" worth 110.6 billion soums, "Pharmacology and Pharmacy" The total cost of the project is 29.4 billion soums. 14 thematic topics were formed and published as a state order for scientific research.

For this purpose, a special 32nd round of the competition of innovative and practical projects in

the field of "Medical Sciences" in the framework of state programs of scientific activity in accordance with the requirements of the state order for research work was announced. In this competition, orders for 25 thematic projects totaling 52.0 billion soums were formed as a state order for scientific activities. The competition is aimed at scientific solutions to current problems in the field of medicine, such as dermatovenerology and cosmetology, surgery and neurosurgery, therapy, medical rehabilitation, traumatology and orthopedics, endocrinology, oncology, hematology, dentistry.

It is known that in March of this year the Ministry of Innovative Development announced a competition of scientific projects worth 5.5 billion soums for the development of technologies for their treatment based on in-depth analysis of the pathogenesis of coronavirus infections and the creation and treatment of molecular genetic diagnostics for coronavirus strains.

In June of this year, in the 28th round of the competition of practical projects for three years, the total volume of which is 16.6%, aimed at solving the most pressing problems related to the diagnosis, prevention and treatment of heart disease in accordance with the requirements of the state order. 6 thematic topics worth 5.7 billion soums were announced, as well as 3 thematic topics worth 5.7 billion soums aimed at the development of folk medicine in the country, preservation of medicinal and endangered plants used in folk medicine of Uzbekistan and the establishment of plantations. will be announced. Our scientists can participate in competitions in their fields throughout the year with scientific ideas and proposals.

Conclusion. Research projects on coronavirus infection "COVID-19" funded by the Ministry of Innovative Development are being implemented. Today, scientific research is carried out in the framework of more than 10 scientific projects worth 14,490.4 million soums. In particular, the State Enterprise "Zangiota No. 1" special hospital for the treatment of patients with coronavirus infection under the leadership of Alimova Khilola Pulatovna A research project on the development of clinical protocols based on specific features is underway. The aim of this project is to develop clinical protocols for the control algorithm in all trimesters of pregnancy and newborns in pregnant women infected with COVID-19. To study the mechanism of action of COVID-19 from mother to newborn and to identify ways of mother-to-child transmission of SARS-CoV-2 virus. It consists of studying the pathomorphological changes that occur in the placenta.

Conclusion. In the context of a pandemic, every sector and direction in the country can be damaged and lead to negative consequences. This is due to the fact that the work of enterprises, factories and organizations is slowed down due to the suspension of all work carried out in the conditions of the pandemic.

The main factors that have helped to maintain macroeconomic stability and economic growth in the country during the pandemic are:

- the development of various scientific studies and scientifically based proposals to mitigate and prevent pandemics;
- in recent years, active modernization of production, technical and technological renewal of industries and sectors of the economy, as well as the organization of high-tech industries;
- effective implementation of measures to liberalize foreign trade and ensure the stability of monetary policy;
- implementation of effective mechanisms for fiscal and monetary policy;

- introduction of preferential procedures for private sector development;
- formation of stable gold and foreign exchange reserves;
- Orientation of funds for the implementation of promising projects based on the implementation of a well-thought-out foreign debt policy and the effective use of foreign investment and loans;
- implementation of important reforms to stimulate foreign economic activity, expand ties with leading international and foreign financial institutions;
- effective social support of the population and prevention of sharp decline in incomes, creation of new jobs, etc.

Thanks to the reforms implemented in recent years, a rapid increase in labor productivity in industry has been achieved. First of all, it is necessary to provide full support to export enterprises and ensure their sustainable operation, expand the resource base and increase investment activity in the real sector of the economy, reduce energy and resource consumption in the economy, widely introduce energy-saving technologies in production, support private businesses. measures taken to strengthen support.

As a result of scientific projects implemented in our country during the pandemic and their funding from the state budget, the spread of the coronavirus pandemic in our country has been prevented.

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