

## THE ROLE AND IMPORTANCE OF INFORMATION TECHNOLOGIES IN THE DEVELOPMENT OF NEW UZBEKISTAN

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**Abstract:** *Today, the widespread introduction of computer technologies serves the development of the state and society, the development of the social sphere, and the sharp improvement of people's lives.*

*Uzbekistan in the new and digital era: changes, priorities, achievements, and plans.  
Describes new tasks to be performed in the future.*

**Key words:** *5 important initiatives, One Million Programmers, Ministry of Information Technologies and Communications Development, Uzbektelecom, digital technology, virtual, Digital Tashkent, JICA, Safe City, INHA.*

### What is the status of staffing?

As in any new field, the transition to the digital economy is characterized by a lack of qualified personnel. Admittedly, this problem has always been relevant. It is said that we are facing obstacles in the matter of personnel. Because there is no reserve that can operate in a new field, in a new direction.

Let's give an example here. Now, the positions of deputy heads in the direction of digitization are being introduced in ministries and agencies. Our Ministry is responsible for recommending and, if necessary, securing experienced specialists for these positions. At a time when the Ministry is responsible for digitization in all areas of the country, and in some cases, it needs a professional expert, why should this gap be filled? What should be done about this? A solution to this was also found, and a solid foundation was laid for it. After all, the greatest wealth of Uzbekistan is the youth, who make up more than half of the population. Therefore, increasing the influence of the younger generation in society is important in state policy, and great attention is being paid to their acquisition of new specialties and professions. As everyone knows, with the idea of the President, today, the attention to youth throughout the republic

should be further strengthened, they should be widely involved in culture, art, physical education, and sports, the formation of skills in the use of information technologies in young people, reading “5 important initiatives” are being implemented in order to promote and increase the employment of women. As a part of the third initiative – to organize effective use of computer technologies and the Internet among the population and young people, 30 digital technology training centers were established in the regions. To date, more than 7,200 students have completed training courses.

In its turn, within the framework of the “One Million Programmers” project, which is aimed at teaching young people, students at general education schools, students of higher educational institutions, academic lyceums, and vocational colleges, the basics of programming, more than 69,000 students are learning. 5.8 thousand of them successfully completed the courses. Everyone knows that the most effective way to train highly qualified personnel is to teach them from childhood. For this purpose, in accordance with the decision of the President of the Republic of Uzbekistan on September 14, 2017, a school specialized in in-depth teaching of sciences related to information and communication technologies named after Muhammad al-Khorazmi was established.

In December 2019, the modern building of this educational institution was commissioned. Now, 680 boys and girls who successfully passed exams in mathematics and foreign languages are studying in grades 5-11 of the school.

Great positive changes have also taken place in the field of education at Tashkent University of Information Technologies named after Muhammad al-Khorazmi. Starting from the 2018/2019 academic year, the university was transferred to the credit module system of modern education, and currently, 9,609 students are studying in this system. A joint Uzbek-Belarusian faculty was also established in the structure of the university. In addition, a modern educational media center was opened at the University thanks to a technical grant of 1.6 million dollars from the Japan International Cooperation Organization (JICA). The media center has all facilities for filming and producing video content.

In accordance with the President’s decision on January 7, 2019, Amity University in Tashkent opened the academic year in September 2019.

Admission was made to Amity University in Tashkent for the bachelor’s degree in Information Technologies, Engineering and Computer Technologies, Economics, Tourism Management, and Business Management, and at the same time for the master’s degree.

During this period, INHA University in Tashkent also carried out effective work in the development of international relations. In the future, in addition to educational centers, special courses on teaching digital technologies to young people will be organized in “Ishga Merhamat” monocenter and Technopark branches.

We think that all young people who studied in these centers or became participants in the project will help to solve the problem of personnel if a certain part of them will follow this path, even if they do not choose the direction of information and communication technologies.

## **Uzbekistan in the new and digital era: changes, priorities, achievements, and plans**

New Uzbekistan today has set itself the main goal not only to develop but also to become one of the strongest countries as a result of comprehensive reforms implemented in various spheres of society. President Shavkat Mirziyoyev, who foresaw and felt this in his address to the parliament this year, said that in order to achieve progress, it is necessary for us to acquire digital knowledge and modern information technologies, which will give us the opportunity to take the shortest path to progress. paid special attention to the deep penetration.

Also, the formation of the digital economy requires necessary infrastructure, a lot of money, and labor resources, but no matter how difficult it is, we need to start this work today, therefore, we have set an active transition to the digital economy as one of our top priorities in the next five years. Because digital technologies increase the quality of products and services, and excess costs are reduced. At the same time, they serve as an effective tool in eliminating one of the worst evils – corruption.

A past short time has shown that the widespread introduction of digital technologies can dramatically improve people's lives, in addition to serving the development of the state and society, as well as the development of the social sphere.

In this regard, the Ministry of Information Technologies and Communications Development has carried out comprehensive work in several directions in the last two years.

### **New tasks to be done in the future**

The most important task ahead of us is a comprehensive positive change of Uzbekistan's economy, including all sectors and industries, and increasing competitiveness.

The "Digital Tashkent" concept is directly related to the "Safe City" major project. It is planned to introduce this project gradually in all regions of the republic in 2019-2023. In the first stage, in 2019-2020, work is being carried out to create a single technological platform for the project in the city of Tashkent. In turn, within the third of the "5 important initiatives", an additional 72 digital technology training centers will be established by the end of the year, where more than 15,000 young people will be trained in the field of information technologies. Courses aimed at teaching programming skills to young people within the framework of the "One Million Programmer" project will be launched in youth centers in all regions, and those involved in the project will be involved in training students at secondary schools and higher education institutions a number will reach 100 thousand. It is also planned to expand the capacity of the data storage and processing center of JSC "Uzbektelecom" by 5 times (up to 5 Petabytes). At the same time, by installing broadband connection devices with 600 thousand ports, the total number of ports is 2.8 million, 5.5 thousand km. through the construction of optical cable lines, the total length of optical communication lines across the republic will be increased to 50,000 km. In addition, by installing 1,052 mobile communication base stations and increasing their total number to

28,300, the coverage level of republican residential areas with a broadband mobile network will be increased.

Most importantly, 2,700 pre-school education and 1,740 healthcare facilities, 2,160 public education institutions will be fully connected to high-speed Internet.

Digital technologies are also widely introduced in the agricultural sector

Today, in order to improve the efficiency of management of land relations, agricultural, and water resources, the Ministry of Information Technologies and Communications has been given specific tasks regarding the introduction of the system of digital and geo-information technologies.

In order to develop geoinformation technologies in our republic, the experience of foreign companies with mature experience in the field was studied.

At present, proposals for the establishment of a “virtual” reception station (geo-information center) for receiving and processing space images taken by remote sensing satellites of foreign companies in the territory of our republic are being studied.