

A NEW STAGE OF ECONOMIC AND TECHNOLOGICAL DEVELOPMENT

Javokhir Yaqukjanov Karimovich B.A.,
Namangan State University

Annotation

The article analyzes the development and infrastructure of the digital economy in several developed countries, and based on the results obtained, discusses in detail a number of problems in the development of the digital economy in our country and their possible solutions.

Keywords: digital economy, block-chain technology, cyber-security, neuro-technology, quantum technology, crypto-currencies, ICO, 3D technology.

The digital revolution, which is emerging as a new stage of economic and technological development, has dramatically changed the lives of human beings and created a wide range of opportunities, as well as a period of intensification of international competition.

The term "digital economy" was first coined in 1995 by Don Tepecott in *The Digital Economy: Promise and Peril in the Age of Networked Intelligence*. This publication highlights the key components of the digital economy: fundamental innovations (semiconductors, processors), key technologies (computers), and connective infrastructure (Internet and telecommunications networks).

Digital economy is used to express two different concepts. First, the digital economy is a modern stage of development characterized by the predominance of the benefits of creative labor and information. Second, the digital economy is a unique concept, the object of study of which is the information society. In today's fast-paced global economy, the digital economy is in its infancy, and the transition to the digital information age is only a few decades away.

In general, the digital economy is a digital environment that allows you to significantly increase the efficiency of storage, sales and delivery of various industries, technologies, equipment, goods and services, based on the use of the results of process analysis and large-scale data processing. The data in the view is the activity that is the main factor of production.

In the future, modern data processing technologies (Big Data), artificial intelligence, neuro-technology, quantum technology, Internet of Things, robotics and sensory, digital electronic platforms, cloud and mobile technologies, virtual and augmented reality technologies, digital technologies such as crowdsourcing, block-chain technology, crypto-currencies and ICO, 3D technology are playing a crucial role.

It is estimated that the digital economy will bring unprecedented changes in more than half of the existing sectors. In particular, according to World Bank experts, a 10% increase in the number of high-speed Internet users will increase the total volume of national economies by an average of 0.4-1.4% annually. The growth rate of the global digital economy is almost 20% per year. In developed countries, the share of the digital economy in GDP has reached 7%. They are already reaping the benefits of the digital economy. In particular, the United States exports more than \$ 400 billion a year in digital services. More than 5% of the country's GDP is directly related to the Internet and information and telecommunications technologies. By 2025, the U.S. will receive an additional \$ 20 trillion from the digitalization of industry. dollars in revenue is expected. Such economic efficiency is particularly high in consumer goods production (\$ 10.3 trillion), the automotive industry (\$ 3.8 trillion) and logistics (\$ 3.9 trillion).

According to various studies, the share of the digital economy in the world economy ranges from 4.5% to 15.5%. The United States and the People's Republic of China account for nearly 40 percent of the value added in the global ICT sector and 75 percent of block-chain technology patents.

President of our country Sh.M. Mirziyoyev at an event dedicated to the development of information technology on February 13, 2020, the share of the digital economy in GDP is 10.9%, 10% in China and 5.5% in India. In Uzbekistan, the figure is less than 2%. To assess the growing importance and impact of digitalization, it is enough to look at the share of capital in the global market of several major technology companies and digital platforms over the last decade. In particular, according to the UN Conference on Trade and Development, this figure rose from 16% in 2009 to 56% by the end of 2018.

It is a fact that in the process of such rapid changes in the world community and the intensification of competition, without the widespread introduction of innovations and digital technologies, we will not be able to sustainably develop the economy and ensure its competitiveness in the near and long terms in turn, requires the intensification of scientific and practical efforts. In this regard, in recent years, as part of the comprehensive reforms aimed at radical modernization of the national economy, a number of measures have been taken to introduce digital technologies in the socio-economic life of the country and public administration. In particular, the adoption of the Resolution of the President of the Republic of Uzbekistan No. PP-3832 of July 3, 2018 "On measures to develop the digital economy in the Republic of Uzbekistan" is an important step in the development of the digital economy. The most important development tasks have been identified:

- a) introduction of crypto-asset turnover activities, including mining, smart contracting, consulting, issuance, exchange, storage, distribution, management, insurance, crowd funding technologies to diversify various forms of investment and business activities;
- b) training of qualified personnel with a good understanding of modern information and communication technologies in the field of development and use of block-chain technologies, as well as the involvement of highly qualified foreign specialists;
- c) comprehensive development of cooperation with international and foreign organizations in the field of crypto-assets and block-chain technologies, as well as the creation of the necessary legal framework, taking into account the best international practices;

Ensuring close cooperation between government agencies and businesses in the implementation of innovative ideas, technologies and developments for the further development of the digital economy.

In particular, the introduction of e-government in our country is an integral part of the development of the digital economy, the main purpose of which is to simplify the administrative procedures, improve the quality of life, improve the investment and business environment. In order to achieve the set goals, as well as to achieve the goal of developing a digital society in our country, creating favorable opportunities for the population and entrepreneurs, developing an effective and transparent system of public administration free from bureaucratic barriers and corruption, The national concept of "digital economy", which provides for modernization on the basis of digital technologies, is being developed, and it is expected that through the development of the digital economy it will be possible to increase GDP by an additional 30%.

In order to further develop science in our country, to bring up our youth with deep knowledge, high spirituality and culture, to form a competitive economy, the President of the Republic of Uzbekistan Sh. M. Mirziyoyev's January 24, 2020 Address to the Oliy Majlis, which called for 2020 the Year of Science, Enlightenment and the Digital Economy, confirmed the beginning of a historic turning point in Uzbekistan's life in line with global development.

In the context of globalization and technological development of the world economy, it is difficult to imagine the economic development of Uzbekistan without a digital economy. According to the study, by 2022, a quarter of global GDP is expected to be in the digital sector. However, the fact that Uzbekistan ranks 103rd out of more than 170 countries in the International Information and Communication Technologies Development Index shows that our country still has a lot of unresolved issues and work to be done in this area will give.

According to the President, “Although our country has risen by 8 places in the International Information and Communication Technologies Development Index in 2019, it is still far behind. It is also true to say that most ministries and departments, enterprises are far from digital technologies. Of course, we know that building a digital economy requires the necessary infrastructure, a lot of money and manpower. But no matter how hard we try, if we don't start today, when will we start ?! It will be too late tomorrow. Therefore, the active transition to the digital economy will be one of our priorities for the next 5 years.

Digital technologies not only improve the quality of products and services, they reduce unnecessary costs. At the same time, they are an effective tool in overcoming the scourge of corruption, which is one of the biggest worries and annoyances. We all need to understand this deeply. Public and social governance, as well as the social sphere, can increase productivity and, in short, dramatically improve people's lives through the widespread introduction of digital technologies. It should be noted that some elements of the digital economy are already successfully operating in our country. In particular, given the mass transfer of documents and communications to digital media, the issuance of electronic signatures, communication with the state is also transferred to electronic platforms.

In the words of UN Secretary General Antonio Guterres, “the digital economy can pose new threats, including threats to cyber-security, easing of illegal economic activity, and breaches of privacy. Making new decisions requires the concerted action of governments, civil society, academia, the scientific community and the technology sector.”

Indeed, as the digital economy expands, international cooperation needs to be strengthened as much as possible. It is gratifying to note that as a result of effective measures taken in the field of information security in Uzbekistan, in 2019 we rose by 41 places to 52nd place in the global index of cyber-security.

In conclusion, the qualitative development of economic sectors, the social sphere and the system of public administration in the current and near future of human development is directly related to the widespread introduction of digital technologies. The prospects for the development of our country also depend on the development of the digital economy and the level of coverage of digital technologies. To achieve this, it is necessary to list the following basic conditions and priorities for the development of the digital economy:

1. *Strengthening the scientific and theoretical base in the field of digital economy and supporting scientific activities in this area with the targeted use of funds from the Digital Trust Fund;*
2. *To hold seminars, courses and other events in educational institutions in order to promote and expand "digital literacy" among the general population, to involve them in the adoption of information technology;*
3. *Strengthening the regulatory framework and improving the legislation in the field of digital economy, as well as the concept of "startups", the creation of a legal framework for their financing through venture funds;*

Strengthening international cooperation in the field of digital economy, implementation of joint projects with leading international technology companies, including the establishment of modern research and production laboratories for innovative developments.

International experience shows that today digital technologies are developing rapidly, mainly in the scientific community and the private sector. Therefore, the state should create a favorable ecosystem by supporting innovative projects and IT companies in these areas. The government will also support modern methods of digital education in support of innovation and digital ecosystems, develop standards for effective regulation of innovative services, assist in the development of new markets and reduce the risks of deepening technological processes. It is advisable to take measures.

References:

1. Address of the President of the Republic of Uzbekistan to the Oliy Majlis of December 28, 2018 on the most important priorities for 2019.
2. Resolution of the Cabinet of Ministers "On additional measures for the further development and implementation of the digital economy in the Republic of Uzbekistan dated August 31, 2018 ..
1. 3.Gulyamov S.S. etc. Block-chain technologies in the digital economy. T .: Economy Finance Publishing House, 2019. 396 pages. –T: "Science and technology" publishing house, 2018.