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THE DIALECTICS OF TRANSITION FROM AN INFORMATION SOCIETY TO A DIGITAL TECHNOLOGY SOCIETY

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In today's world, where the process of globalization is expanding and deepening on a global scale, the penetration of modern information and communication tools as well as digital technologies into all spheres of human life and their rapid development are causing significant changes in the development of society. The concepts of "Information Society" and "Digital Technologies" have acquired a global significance. These processes influence human thinking in various directions, affecting humanity's life in different ways, sometimes positively and sometimes negatively, becoming a powerful force that shapes outcomes.

In such a complex environment, educating highly qualified, talented, and modern-thinking students and conducting comprehensive research in this field are recognized as key issues that determine the future of nations and states today.

In our country, under current globalization conditions, the rapid growth of information, the swift development of information technologies and digitalization, and the increasing level of informatization and computerization in various spheres of social life are having a profound impact on all sectors of society.

The growing importance of this factor is manifested in the wide use of information resources and digitalization opportunities as an integral part of these processes, along with the significant attention given to improving national information systems and ensuring information security.

In recent years, reforms aimed at integrating Uzbekistan into the ranks of developed countries have made the development of digital technologies one of



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the top priorities. Today, the main principles of the state policy regarding these reforms and innovations have been fully developed, and priority areas have been clearly defined.

From this perspective, it is essential to summarize international experiences, identify general patterns specific to the practice of digital technologies, determine the national characteristics of their implementation in Uzbekistan, and develop scientifically grounded proposals and recommendations.

Under the influence of ongoing fundamental reforms, research is being focused on the dynamic changes and innovations taking place in state policy aimed at developing digital technologies, highlighting their significance as a priority trend in the new stage of Uzbekistan's development. This topic remains highly relevant. In this context, the President of Uzbekistan emphasized in his speech at the 75th session of the UN General Assembly:

“As a result of our comprehensive measures to politically, socially, and economically modernize society, a new Uzbekistan is being formed. Today, the democratic changes in our country have reached an irreversible stage.”

It should be noted that in the policies and activities of many leading countries, concepts such as “Internet,” “E-Government,” “Electronic Management,” “Digital Technologies,” and “Websites” are widely applied and studied in the works of scholars and research by specialists.

At the same time, terms such as “IT technologies,” “digital technologies,” “digital communications,” “digital commerce,” “digital assets,” “digital dividends,” “blockchain technology,” and “cryptocurrency” have become familiar and are being deeply studied from various perspectives.

In this regard, research on digitalization is given significant attention at: Oxford University, Cambridge University, Manchester University, Central Asian Studies, and Jawaharlal Nehru University (UK and India); Massachusetts



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Institute of Technology, Indiana University, Stanford University, University of Pittsburgh (USA); Humboldt University (Germany); University of Sorbonne (France); Tokyo University and Kiofo University (Japan); Asia Research Institute (South Korea); and the Institutes of Technology and Sociology of the Russian Academy of Sciences (Russia).

Globally, analyzing concepts such as “digital technologies” and “development of digital technologies” as scientific research objects, and demonstrating the laws governing the formation of digital technologies, has attracted the attention of scholars and specialists due to a range of issues common to almost all countries. Today, there is a growing demand for research and studies aimed at developing practical proposals and recommendations that help optimize the system and mechanism of innovative development principles reflected in state policies for the implementation of digital technologies worldwide.

The decree of the President of the Republic of Uzbekistan, “On Measures to Further Improve the Field of Information Technologies and Communications,” dated February 19, 2018, became highly significant in this field. Similarly, the Presidential Decree No. PF-5598 of December 13, 2018, “On Additional Measures for the Introduction of Digital Technologies, E-Government, and Information Systems in State Administration of the Republic of Uzbekistan,” and Decree No. PF-6079 of October 5, 2020, “On Approving the ‘Digital Uzbekistan – 2030’ Strategy and Measures for Its Effective Implementation,” further strengthened the legal basis of these processes.

The declaration of 2020 as the “Year of Science, Education, and Digital Technologies” in our country, along with the Presidential Decree “On the State Program for the Implementation of the Strategy of Five Priority Directions of Development of the Republic of Uzbekistan in 2017–2021 in the Year of Science,



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Education, and Digital Technologies,” marks the beginning of a new era in this direction.

The Presidential Resolution of April 28, 2020, “On Measures for the Widespread Implementation of Digital Technologies and E-Government,” and the “Digital Uzbekistan – 2030” strategy, demonstrate that these activities are ongoing and that the current “New Uzbekistan – 2030 Strategy” serves as a fundamental platform for taking the field to a new level.

The use of digital technologies is bringing profound changes to people’s daily lives and interactions, as well as to production relations, technology and educational systems, information systems, and services in society. Digital tools and information, due to their alternative value, have become a new factor and are now used to implement new goals and ideas. This globally recognized trend has become an integral part of our country’s life and ongoing reforms, and is manifested in several ways:

First, digital technologies serve as mechanisms for social processes. For example, you can now book medical appointments online, monitor your health via telemedicine, attend top-level courses from thousands of kilometers away, fill out official documents from home, access online financial services, and purchase goods unavailable in nearby stores.

Second, the introduction of digital technologies and services in daily life can significantly improve quality of life and reduce social inequality, especially for people in remote areas or with different income levels. However, unlike most other countries, standards for evaluating data storage and processing centers in Uzbekistan are still being developed, which limits objective assessment of the quality of services provided.

Third, digital technologies allow the creation of safe and convenient cities. They help optimize energy consumption, reduce traffic congestion, and prevent



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accidents. The introduction of digital technologies has led to centralized monitoring systems for urban infrastructure. They enable city authorities to identify where new infrastructure is needed and how to maintain it efficiently and cost-effectively, ultimately providing residents with better living conditions without increasing budget expenditures.

Fourth, in the modern world, enterprises require highly qualified personnel, and talented individuals are selective about where they live and work. Today, a high quality of life is directly linked to economic growth and improvements in the business environment. Creating favorable living conditions has become a mandatory requirement for attracting skilled specialists and large employers, particularly in high-tech industries.

Currently, digital technologies are developing independently of specific individuals, institutions, or states, becoming part of global practice. Therefore, the speed at which each region of Uzbekistan adopts these technologies has become a matter of success and quality of life.

The local characteristics of digital technology usage did not initially position the Third Industrial Revolution as a full-scale global technological project. However, the Fourth Industrial Revolution highlights digital technologies as a key factor in societal development, requiring their rapid advancement.

In Uzbekistan, comprehensive measures are being implemented to actively develop the digital economy and widely introduce modern information and communication technologies across all sectors, particularly in public administration, education, healthcare, and agriculture. Key projects include: improving the e-government system, developing the domestic IT and software market, establishing IT parks throughout the country, and providing the sector with qualified personnel.



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In addition, the “Digital Tashkent” comprehensive program is being implemented, which envisions the launch of a geoportal integrated with numerous information systems, the creation of an information system for managing public transport and communal infrastructure, the digitalization of the social sector, and, in the future, the replication of this experience in other regions.

The ongoing reforms in the New Uzbekistan have created the opportunity to take digitalization to a new level. In such rapidly evolving conditions, it has become an urgent task to develop practical proposals and recommendations that help improve the efficiency of activities and increase the effective work coefficient of the entities participating in digital technologies.

In the coming years, special attention will be paid to utilizing global experience and further developing national content in this area. In particular, the practical importance of the “Digital Services for Uzbekistan” state program for 2021–2025, approved by this decree, has been significant.

Today, increasing the efficiency of using modern technological capabilities, fostering a culture of applying digital innovations and corresponding transformations in the activities of all levels of entities is of great importance. This, in turn, indicates the necessity for each of us to acquire the skills to adopt innovations in this field and use them effectively, which has become a requirement of the current era.

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