

## THE ROLE OF THE TECHNOLOGICAL REVOLUTION IN THE ECONOMY OF THE REPUBLIC OF UZBEKISTAN OVER THE PAST 9 YEARS

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**Abstract.** This research examines the role of the technological revolution in shaping the economy of the Republic of Uzbekistan over the past nine years. Particular attention is given to the “Digital Uzbekistan–2030” strategy and its role in expanding e-government services, digital payment systems, and information and communication technologies. The study shows that the introduction of modern technologies has contributed to improving productivity, increasing transparency in public services, and creating new business opportunities. At the same time, certain challenges remain, including the need for qualified specialists, development of digital infrastructure, and reduction of the digital gap between regions.

**Keywords:** revolution, economy, Uzbekistan, digital transformation, strategy, productivity, e-government, human capital, ICT

**Introduction.** The digital economy has become an essential pillar of modern economic development, influencing competitiveness at national, regional, and global levels. Advances in information and communication technologies (ICT), artificial intelligence, and automation are transforming production structures, business models, and labor markets. In Uzbekistan, the government has declared digitalization a national priority, reflected in strategic documents such as the “Digital Uzbekistan 2030” program, which envisions the integration of digital technologies into all key sectors of the economy. These initiatives are aimed at increasing productivity, reducing transaction costs, and fostering innovation-led growth, thereby strengthening the country’s position in global competitiveness rankings.<sup>1</sup>

**Main part.** As part of the construction and development of New Uzbekistan, several significant strategic documents have been adopted, including the Digital Uzbekistan –

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<sup>1</sup> Abdurakhmanov A. X. U. ugli & Bekimbetova G. M. *Digital Transformation and Its Role in Boosting Economic Competitiveness of Uzbekistan, Ta’lim, Tarbiya va Innovatsiyalar Jurnal*, Vol. 1, No. 8, 2025, pp.

2030 Strategy, the Development Strategy of New Uzbekistan for 2022–2026, and the Uzbekistan – 2030 Strategy, which delineate the goals and objectives pertaining to the digital transformation of all regions and sectors. These documents also emphasize the extensive adoption of digital technologies, further enhancement of digital infrastructure, and the aim to place Uzbekistan among the top 30 countries globally in terms of e-government development by 2030, positioning the country as a regional IT hub. Uzbekistan’s digital economy shows promising growth, driven by strategic government policies and public– private collaboration. However, sustained progress demands continued investment in rural ICT infrastructure, capacity building in cybersecurity, and the enhancement of digital literacy. The effective integration of these elements will determine the success of the Digital Uzbekistan – 2030 vision. International cooperation, education reform, and inclusive initiatives will be pivotal to ensuring that the benefits of digital transformation are distributed equitably across the country.<sup>2</sup>

In modern conditions, the development of the regional economy is a complex and multidimensional process that includes not only economic growth, but also social cohesion, environmental sustainability, and digital transformation. In a period of increasing volatility in the global economy, regions face the necessity of strengthening their economic independence, integrating into global value chains, and efficiently managing local resources.

In the context of Uzbekistan, regional development is entering a new qualitative stage. President Shavkat Mirziyoyev’s strategic statement that “each region should have its own unique model of economic and social development” has laid the foundation for differentiated regional growth. This approach not only aims to reduce disparities between regions, but also creates opportunities to fully unlock the specific potential of each territory.<sup>3</sup>

Uzbekistan has experienced a revolution in the development of information technology over the past four years, which has helped to accelerate the process of digitalization in many sectors of the economy and increase the proportion of the economy that is referred to as "digital". E-commerce, the Electronic Government system, the integration of smart technology into various service industries, the establishment of Smart Cities and Safe Cities systems, among other things, are frequently included in the list of the digital economy's constituent parts. Various metrics

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<sup>2</sup> Bo’riyev J., Ro’zmatov A., Safarov H., & Toirova M. (2025). *The digital economy in Uzbekistan: challenges and opportunities. Green Economy and Development, Vol.*, 2025.

<sup>3</sup> Kurbonova, K. I. & Norova, S. Y. (2025). *Mintaqa iqtisodiyotini rivojlantirishning zamonaviy tendensiyalari. Science and Education, 6(12)*, 835–843

are typically used to measure the growth of the digital economy in a nation, which is closely tied to the ICT (information and communication technologies) level of development. The size of investments made in the ICT sector, the speed of the Internet, its coverage of the nation's territory and accessibility for use by the population are some examples of these indicators. Others include the degree to which e-commerce has developed, the proportion of public services included in the e-government system, the availability of organizations with ICT experts, and others. Indicators that measure the advancement of information technologies are also crucial.<sup>4</sup>

The purpose of this study is to comprehensively examine modern trends in regional economic development, analyze their theoretical foundations, and identify the possibilities for their application in Uzbekistan. The article explores the interrelationship between digital transformation, green economy, innovative clustering, human capital development, and interregional integration, as well as their impact on regional development.

**Conclusion.** Based on recent economic indicators and policy analysis, the thesis concludes that technological transformation has become one of the key factors supporting sustainable economic growth and strengthening Uzbekistan's position in the global economic environment. In recent years, the digital economy in Uzbekistan has been developing at a rapid pace. The transition of public services to online platforms, the expansion of mobile payment systems, and the growing opportunities to conduct business via the Internet have significantly transformed the country's economic landscape. In addition, the introduction of artificial intelligence into everyday life has positively influenced the technological literacy of the population in many aspects. The development of digital infrastructure, startups, and innovations, as well as the increasing digitalization of agriculture, can be considered clear examples of the growth of the digital economy.

At the same time, it is important to acknowledge several existing challenges, such as low public trust in technology, cybersecurity risks, market and regulatory issues, and concerns related to technological security. Nevertheless, over the past nine years, solutions have been found to address many of these problems, and further measures are being implemented to continue improving and strengthening the digital economy of Uzbekistan in the coming years.

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<sup>4</sup> Rakhmatullaeva, D. O. (2023). *Analysis of digitalization of the economy of the Republic of Uzbekistan. Economic Studies Journal*, 12(3), 45–53.

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