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& IQTISODIYOT

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fan va ta'limga oid ilmiy-amaliy jurnal

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- 05.01.00 – Axborot texnologiyalari, boshqaruv va kompyuter grafikasi
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05.01.03 – Informatikaning nazariy asoslari
05.01.04 – Hisoblash mashinalari, majmualari va kompyuter tarmoqlarining matematik va dasturiy ta'minoti
05.01.05 – Axborotlarni himoyalash usullari va tizimlari. Axborot xavfsizligi
05.01.06 – Hisoblash texnikasi va boshqaruv tizimlarining elementlari va qurilmalari
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05.02.00 – Mashinasozlik va mashinashunoslik
05.02.08 – Yer usti majmualari va uchish apparatlari
05.03.02 – Metrologiya va metrologiya ta'minoti
05.04.01 – Telekommunikatsiya va kompyuter tizimlari, telekommunikatsiya tarmoqlari va qurilmalari. Axborotlarni taqsimlash
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05.05.06 – Qayta tiklanadigan energiya turlari asosidagi energiya qurilmalari
05.06.01 – To'qimachilik va yengil sanoat ishlab chiqarishlari materialshunosligi
05.08.03 – Temir yo'l transportini ishlatish
05.08.06 – "G'ildirakli va gusenisali mashinalar va ularni ishlatish" (texnika fanlari)
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08.00.16 – Raqamli iqtisodiyot va xalqaro raqamli integratsiya
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Ma'lumot uchun, OAK

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ASSESSING THE IMPACT OF DIGITAL ECONOMY TECHNOLOGIES ON REGIONAL PRODUCTION, SERVICE SECTOR DEVELOPMENT, AND EMPLOYMENT

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Abstract. This study examines the impact of digital economy technologies on regional production, the service sector, and employment. The research analyzes key directions of digital transformation, including the adoption of information and communication technologies, digital platforms, and e-government services. Special attention is given to regional disparities and sector-specific effects. The findings reveal that digitalization enhances productivity, stimulates service sector growth, and creates new employment opportunities, while also posing challenges such as skill gaps and unequal access. The paper provides recommendations for improving digital transformation at the regional level.

Keywords: digital economy, regional development, production, service sector, employment, digital technologies, ICT, innovation, Uzbekistan.

Annotatsiya. Ushbu tadqiqotda raqamli iqtisodiyot texnologiyalarining mintaqaviy ishlab chiqarish, xizmat ko'rsatish sohasi va bandlikka ta'siri o'rganiladi. Tadqiqotda axborot-kommunikatsiya texnologiyalarini joriy etish, raqamli platformalar va elektron hukumat xizmatlarini rivojlantirish kabi raqamli transformatsiyaning asosiy yo'nalishlari tahlil qilinadi. Mintaqalar o'rtasidagi tafovutlar hamda tarmoqlar kesimidagi ta'sirga alohida e'tibor qaratiladi. Natijalar shuni ko'rsatadiki, raqamlashtirish mehnat unumdorligini oshiradi, xizmatlar sohasining rivojlanishini rag'batlantiradi va yangi ish o'rinlarini yaratadi, shu bilan birga malaka yetishmasligi va imkoniyatlarga noteng kirish kabi muammolarni ham yuzaga keltiradi. Tadqiqotda mintaqaviy darajada raqamli transformatsiyani takomillashtirish bo'yicha tavsiyalar ishlab chiqilgan.

Kalit so'zlar: raqamli iqtisodiyot, mintaqaviy rivojlanish, ishlab chiqarish, xizmat ko'rsatish sohasi, bandlik, raqamli texnologiyalar, AKT, innovatsiyalar, O'zbekiston.

Аннотация. В данном исследовании рассматривается влияние технологий цифровой экономики на региональное производство, сферу услуг и занятость. Анализируются ключевые направления цифровой трансформации, включая внедрение информационно-коммуникационных технологий, цифровых платформ и электронного правительства. Особое внимание уделяется региональным различиям и отраслевым эффектам. Результаты показывают, что цифровизация способствует повышению производительности, стимулирует рост сферы услуг и создаёт новые возможности занятости, одновременно порождая такие проблемы, как дефицит навыков и неравный доступ. В статье предлагаются рекомендации по совершенствованию цифровой трансформации на региональном уровне.

Ключевые слова: цифровая экономика, региональное развитие, производство, сфера услуг, занятость, цифровые технологии, ИКТ, инновации, Узбекистан.

INTRODUCTION

In the era of rapid technological advancement, the digital economy has emerged as a fundamental driver of economic growth and regional development. The integration of digital technologies—such as information and communication technologies (ICT), digital platforms, and data-driven systems—has significantly transformed



production processes, service delivery, and labor markets. These changes contribute to increased efficiency, improved competitiveness, and the creation of new economic opportunities.

For developing countries like Uzbekistan, digital transformation plays a crucial role in accelerating regional development and reducing socio-economic disparities. In recent years, the government has implemented large-scale initiatives, including the “Digital Uzbekistan – 2030” strategy, aimed at expanding digital infrastructure, enhancing access to high-speed internet, and improving the quality of public services through e-government systems¹.

REVIEW OF LITERATURE ON THE SUBJECT

The literature on the digital economy shows that digital technologies are no longer viewed as a narrow technological phenomenon, but as a structural factor reshaping production systems, service delivery models, labor demand, and regional development trajectories. One of the foundational contributions in this field belongs to Manuel Castells, who in 1996 explained the emergence of the network society and demonstrated that information technologies transform the logic of economic organization, spatial interaction, and value creation. His approach is especially important for regional analysis because it shows that territories increasingly compete not only through physical resources, but also through their connectivity, informational capacity, and ability to integrate into wider digital networks.

A major shift in the interpretation of digital transformation was later advanced by Erik Brynjolfsson and Andrew McAfee, who in 2014 argued that digital technologies accelerate productivity growth, automate routine functions, and create new opportunities for innovation, while simultaneously generating risks of labor market polarization. Their work is highly relevant for assessing regional production and employment because it links technological progress with uneven economic outcomes. In regions where firms and workers adapt quickly, digitalization strengthens competitiveness and expands high-value activities. In less prepared regions, however, automation may deepen structural unemployment and widen development gaps.

Institutional studies have further broadened this discussion by connecting digital transformation with data governance, public services, business efficiency, and inclusive development. The World Bank in 2021 emphasized that data have become a strategic economic resource and that the effectiveness of digital transformation depends on how well countries and regions create systems for collecting, processing, sharing, and applying digital information. This nuqtayi nazar is important for regional production and service development because digital platforms, smart logistics, e-commerce, and digital public administration all depend on reliable data ecosystems. The World Bank’s approach also suggests that the benefits of digitalization are not automatic; they require complementary institutions, regulatory quality, and human capital.

The OECD in 2020 examined the digital economy from the perspective of productivity, innovation, connectivity, and business transformation. Its findings indicate that digital technologies contribute to industrial modernization by improving coordination across supply chains, reducing transaction costs, and enabling firms to adopt data-driven decision-making. For the service sector, OECD analyses show that digital tools open new possibilities in finance, trade, education, health, and transport, thereby increasing service accessibility and diversification. At the same time, the OECD stresses that digital transformation tends to be territorially uneven, since metropolitan and infrastructure-rich regions usually capture gains faster than peripheral areas. This conclusion is particularly valuable for studies focused on regional disparities.

The employment dimension has been extensively discussed by the International Labour Organization. In its 2021 World Employment and Social Outlook, the ILO noted that digitalization has a dual influence on labor markets. On the one hand, it creates new jobs in ICT, digital services, online trade, and platform-based activities. On the other hand, it reduces demand for some traditional occupations, especially those based on repetitive and standardized tasks. The ILO’s contribution is methodologically significant because it frames employment not simply as the number of jobs created or lost, but as a broader issue involving job quality, skills adaptation, informality, and social protection. For regional studies, this means that the impact of digital technologies on employment should be assessed in both quantitative and qualitative terms.

In the context of Uzbekistan, recent official and academic publications provide a more specific understanding of how digital economy technologies affect regional development. The Ministry of Digital Technologies of the Republic of Uzbekistan in 2024 reported that digital reforms in the country have accelerated the expansion of ICT infrastructure, e-government systems, digital entrepreneurship, and platform-based services. This source highlights that digitalization is becoming an important driver of modernization not only in Tashkent, but also across regions through improvements in internet coverage, state services, and technological access for businesses. Such changes directly influence production efficiency, service delivery, and labor market dynamics at the territorial level.

¹ Ministry of Digital Technologies of the Republic of Uzbekistan. Report on the Development of the Digital Economy. – Tashkent, 2024.



The National Statistics Committee of the Republic of Uzbekistan in 2025 presented digital economy indicators that make it possible to assess regional differences more empirically. Statistical materials of this kind are especially important because they allow researchers to trace how ICT penetration, internet access, digital business activity, and service sector expansion are distributed across regions. These indicators create the empirical base for examining whether digitalization supports balanced regional growth or whether it reinforces the concentration of opportunities in already developed territories.

Among national researchers, Abdullayev A.F. analyzed the development of the ICT sector in Uzbekistan for 2017–2024 and showed that digital transformation in the country has been accompanied by growth in communications infrastructure, digital services, and technology-related employment. His study is particularly useful because it links sectoral ICT growth with broader labor and human capital issues. This helps explain that the impact of digital technologies on employment is mediated by education, skills formation, and labor adaptability rather than by technology alone. In other words, regional employment effects depend on whether local economies can absorb new digital activities and retrain workers displaced from traditional sectors.

Mukhamedzhanova M.B. examined the digital economy of Uzbekistan from a broader systemic perspective and emphasized that digitalization influences economic management, business practices, service delivery, and innovation processes. Her work contributes to the literature by showing that digital transformation in Uzbekistan is not limited to technical modernization, but is increasingly connected with structural economic change. This argument is highly relevant for the present topic because it supports the idea that regional production, services, and employment should be analyzed as interrelated outcomes of a wider digital transition.

Overall, the reviewed literature demonstrates several common patterns. First, digital economy technologies improve production by increasing efficiency, coordination, and innovation capacity. Second, they stimulate the expansion and diversification of the service sector through digital platforms, remote services, and data-based business models. Third, their employment effects are mixed: they create new opportunities in knowledge-intensive and service-based activities, yet they also displace some traditional forms of labor and increase the importance of reskilling. At the same time, the literature also reveals an important research gap. While international studies provide strong theoretical explanations and national reports offer useful descriptive evidence, there is still a need for more focused empirical analysis of how digital technologies affect production, service sector development, and employment at the regional level in Uzbekistan. This gives the present study both its relevance and its analytical direction.

RESEARCH METHODOLOGY

In this study, the impact of digital economy technologies on regional production, the service sector, and employment is assessed using a composite index approach and comparative analysis. The methodology is based on the calculation of a Digital Impact Index (DII), which integrates key indicators reflecting the level of digitalization and its economic effects.

The Digital Impact Index is calculated as follows:

$$DII = \alpha I + \beta S + \gamma E$$

where:

I – production efficiency indicator (output growth, productivity),

S – service sector development indicator (share of digital services, e-commerce),

E – employment indicator (digital jobs, labor market transformation),

α, β, γ – weighting coefficients (with $\alpha + \beta + \gamma = 1$).

This model allows for a comprehensive evaluation of how digital technologies influence key sectors of regional economies (Table 1).

Table 1. Indicators used for digital impact assessment²

Indicator group	Variables	Measurement unit	Data source
Production (I)	Labor productivity, digital adoption in industry	% growth	National statistics
Services (S)	Share of e-services, e-commerce volume	% of total services	Ministry reports
Employment (E)	Digital employment rate, ICT jobs share	% of workforce	Labor statistics
Infrastructure	Internet penetration, broadband access	% of population	ICT reports

² Developed by the author.

This table presents the main groups of indicators used in the study. Production (I) reflects production efficiency and the level of digital technology adoption in industry. Services (S) shows the share of digital services and the development of e-commerce. Employment (E) represents changes in the labor market, including digital jobs and ICT employment. Infrastructure measures internet penetration and broadband access. Together, these indicators provide a comprehensive assessment of the level of digitalization across regions.

ANALYSIS AND RESULTS

In the context of accelerating global digital transformation, the integration of digital economy technologies has become a key driver of regional economic development. Understanding the dynamics of digitalization across different territories is essential for designing effective and inclusive development strategies.

While the pace of digitalization varies across regions, this differentiation reflects the diverse starting conditions and development potentials of urban and rural areas. Urban regions often demonstrate faster adoption of digital innovations, serving as growth hubs and testing grounds for advanced technologies. At the same time, rural areas present significant opportunities for future expansion, particularly through targeted improvements in infrastructure, digital competencies, and access to digital services. These differences underscore the importance of comprehensively evaluating how digital economy technologies contribute to the development of production, service sectors, and employment. The conceptual framework of this study is presented in Figure 1, illustrating the interconnected relationship between digital transformation drivers and their impact on regional economic sectors (Figure 1).

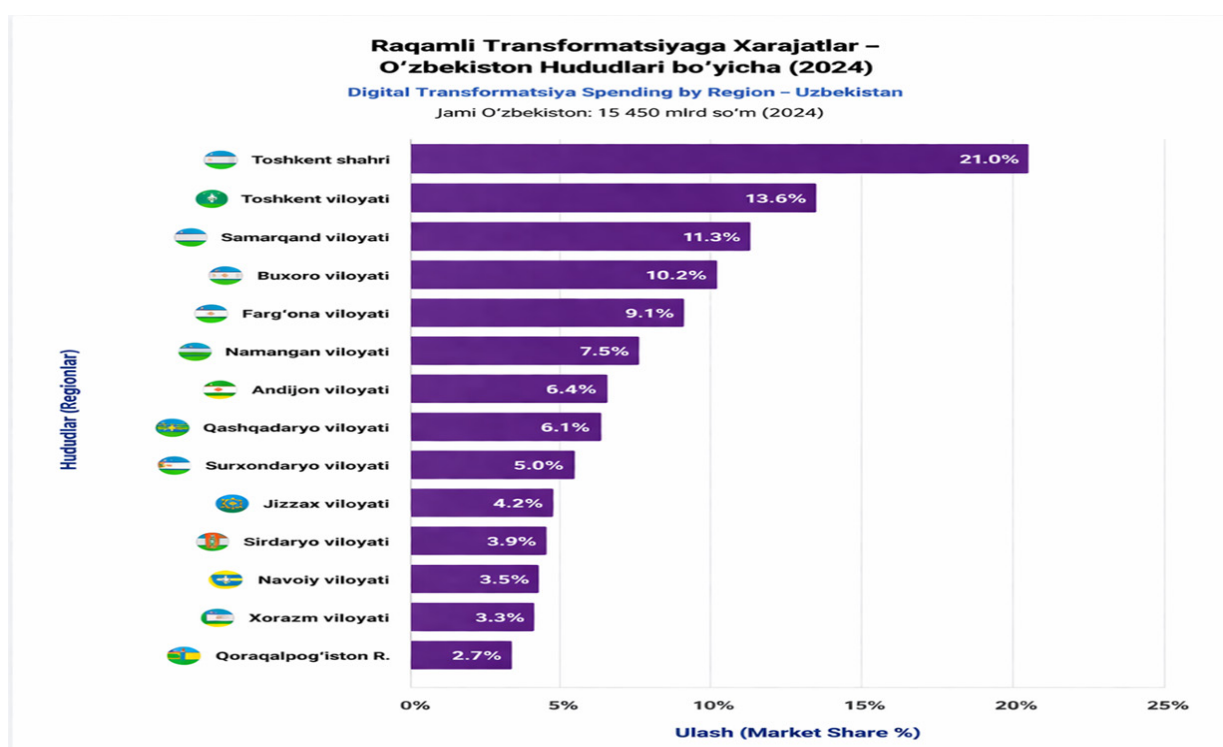


Figure 1. Regional distribution of digital transformation spending in Uzbekistan³

Figure 1 shows the distribution of digital transformation spending across regions of Uzbekistan in 2024. The highest share belongs to Tashkent city, followed by Tashkent and Samarkand regions, while lower levels are observed in less-developed regions such as Karakalpakstan and Khorezm. This indicates regional disparities in digital investment and highlights the need for balanced digital development policies.

The findings of this study confirm that digital economy technologies play a significant role in transforming regional economic structures. The results are consistent with existing international research, which emphasizes that digitalization increases productivity, enhances service sector efficiency, and reshapes labor markets. In the context of Uzbekistan, these effects are more evident in regions with better-developed infrastructure and higher economic activity.

³ Developed by the author based on data from the Ministry of Digital Technologies of the Republic of Uzbekistan and analytical reports on digital economy development, using artificial intelligence tools.



At the same time, the analysis reveals notable regional disparities. While leading regions benefit from advanced ICT infrastructure and active digital adoption, less-developed areas lag behind due to limited access to technology and insufficient digital skills.

The study demonstrates that digital economy technologies have a positive impact on regional development. They contribute to increased production efficiency, expansion of digital services, and the creation of new employment opportunities. Regions with higher levels of digitalization show better economic performance and more dynamic labor markets.

CONCLUSIONS AND SUGGESTIONS

Digitalization is a key driver of regional economic development, positively influencing production, services, and employment. However, unequal access to digital resources limits its full potential. To overcome these challenges, it is essential to expand digital infrastructure, improve digital skills, support innovation, and promote the adoption of digital technologies across sectors. Additionally, reducing regional disparities and strengthening cybersecurity will contribute to more effective outcomes.

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