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DEVELOPMENT OF UZBEKISTAN IN THE ERA OF DIGITAL ECONOMY RENEWAL (The Role of IT Platforms, Emerging Technologies, and Innovative Business Models)

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Abstract: The transformation of Uzbekistan's economy in the digital age represents a critical pathway toward sustainable development, global integration, and competitiveness. This study explores how IT platforms, emerging technologies such as artificial intelligence, blockchain, and cloud computing, and innovative business models contribute to economic renewal in Uzbekistan. The paper combines theoretical perspectives with practical insights and policy analysis to propose a comprehensive framework for digital economic growth. The findings highlight that digital platforms not only enhance efficiency but also democratize access to markets, particularly benefiting small and medium enterprises (SMEs). The study concludes with strategic recommendations for policymakers, businesses, and stakeholders to accelerate Uzbekistan's digital transformation.

Keywords: Digital Economy, Uzbekistan, IT Platforms, Artificial Intelligence, Business Models, Innovation, SMEs.

RAQAMLI IQTISODIYOTNI YANGILASH DAVRIDA O'ZBEKISTONNING RIVOJLANISHI (IT platformalari, rivojlanayotgan texnologiyalar va innovatsion biznes modellarning roli)

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Abstrakt: Raqamli davrda O'zbekiston iqtisodiyotining o'zgarishi barqaror rivojlanish, global integratsiya va raqobatbardoshlikka erishishning muhim yo'lini ifodalaydi. Ushbu tadqiqot IT platformalari, Sun'iy intellekt, blokcheyn va bulutli hisoblash kabi rivojlanayotgan texnologiyalar va innovatsion biznes modellari O'zbekistonda iqtisodiy yangilanishga qanday hissa qo'shishini o'rganadi. Maqolada nazariy nuqtai nazarlar amaliy tushunchalar va siyosat tahlili bilan birlashtirilib, raqamli iqtisodiy o'sish uchun keng qamrovli asos taklif qilinadi. Tadqiqot natijalari raqamli platformalar nafaqat samaradorlikni oshirishi, balki bozorlarga kirishni demokratlashtirishi, ayniqsa kichik va o'rta korxonalar (KO'B) uchun foydali ekanligini ta'kidlaydi. Tadqiqot siyosatchilar, biznes va manfaatdor tomonlar uchun O'zbekistonning raqamli transformatsiyasini tezlashtirish bo'yicha strategik tavsiyalar bilan yakunlanadi.

Kalit so'zlar:Raqamli iqtisodiyot, O'zbekiston, IT platformalari, Sun'iy intellekt, Biznes modellari, Innovatsiya, Kichik va o'rta biznes.

РАЗВИТИЕ УЗБЕКИСТАНА В ЭПОХУ ОБНОВЛЕНИЯ ЦИФРОВОЙ ЭКОНОМИКИ (Роль ИТ-платформ, новых технологий и инновационных бизнес-моделей)

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Абстрактный: Трансформация экономики Узбекистана в цифровую эпоху представляет собой важнейший путь к устойчивому развитию, глобальной интеграции и конкурентоспособности. В данном исследовании рассматривается, как ИТ-платформы, новые технологии, такие как искусственный интеллект, блокчейн и облачные вычисления, а также инновационные бизнес-модели способствуют экономическому обновлению в Узбекистане. Работа сочетает теоретические перспективы с практическими выводами и анализом политики, предлагая комплексную концепцию цифрового экономического роста. Результаты показывают, что цифровые платформы не только повышают эффективность, но и демократизируют доступ к рынкам, особенно принося пользу малым и средним предприятиям (МСП). В заключение исследования предлагаются стратегические рекомендации для политиков, бизнеса и заинтересованных сторон по ускорению цифровой трансформации Узбекистана.

Ключевые слова:Цифровая экономика, Узбекистан, ИТ-платформы, искусственный интеллект, бизнес-модели, инновации, малые и средние предприятия.

1. Introduction. In recent years, Uzbekistan has embarked on a transformative journey toward a digital economy. The government's strategic initiatives, including the "Digital Uzbekistan – 2030" program, aim to modernize economic structures, improve public services, and foster innovation-driven growth. The digital economy is no longer an optional pathway; it is a necessity for countries aiming to compete globally. For Uzbekistan, with its young population and growing technological adoption, the integration of IT platforms and innovative business models presents a unique opportunity to leapfrog traditional stages of development.

2. Literature Review. The concept of the digital economy has evolved alongside advancements in Information Technology and communication systems. Scholars emphasize the role of digital platforms in reducing transaction costs, improving efficiency, and enabling new forms of value creation.

Emerging technologies such as Artificial Intelligence, Blockchain, and Cloud Computing are widely recognized as key drivers of digital transformation. These technologies enable automation, transparency, and scalability, which are essential for modern economies.

3. Current State of Digital Economy in Uzbekistan

Uzbekistan has made significant progress in digital infrastructure development, including:

- Expansion of broadband connectivity
- Growth of mobile internet penetration
- Development of e-government services
- Rise of digital payment systems

Institutions such as IT Park Uzbekistan play a pivotal role in fostering innovation and supporting startups. However, challenges remain in areas such as digital literacy, infrastructure gaps in rural regions, and limited integration of advanced technologies in traditional sectors.

Year	GDP Growth (%)	ICT (%)	Internet (%)	Investment (USD bn)
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2017	5.3	1.3	43	0.4
2018	5.4	1.5	46	0.5
2019	5.7	1.7	55	0.7
2020	1.6	1.9	60	0.9
2021	7.4	2.0	65	1.1
2022	5.7	2.1	70	1.3
2023	6.3	2.2	73	1.5
2024	6.0	2.4	76	1.7

4. Role of IT Platforms in Economic Development

IT platforms serve as the backbone of the digital economy by connecting users, businesses, and services.

4.1 E-Commerce Platforms

E-commerce platforms enable businesses to reach broader markets, reduce operational costs, and improve customer engagement. For SMEs, these platforms provide an entry point into global trade without requiring significant capital investment.

4.2 Digital Service Platforms

Platforms offering services such as ride-hailing, online education, and telemedicine enhance accessibility and efficiency. These platforms contribute to job creation and service delivery optimization.

4.3 Financial Technology Platforms

FinTech platforms revolutionize financial inclusion by providing digital payment systems, micro-lending, and mobile banking services. This is particularly important in rural areas where traditional banking infrastructure is limited.

5. Emerging Technologies and Their Impact

5.1 Artificial Intelligence

AI enhances decision-making, predictive analytics, and automation across sectors such as agriculture, healthcare, and finance.

5.2 Blockchain Technology

Blockchain ensures transparency and security in transactions, making it suitable for applications in supply chain management, land registration, and financial services.

5.3 Internet of Things (IoT)

IoT enables smart agriculture, smart cities, and industrial automation by connecting devices and collecting real-time data.

6. Innovative Business Models. Digital transformation enables new business models that redefine value creation:

- **Platform-Based Models:** Businesses act as intermediaries connecting buyers and sellers.
- **Subscription Models:** Continuous revenue through recurring services.
- **Freemium Models:** Basic services are free, while advanced features are paid.
- **On-Demand Models:** Services delivered instantly via digital platforms.

These models enhance flexibility, scalability, and customer-centricity.

7. Challenges in Digital Transformation. Despite progress, several challenges hinder the full realization of the digital economy in Uzbekistan:

- Digital divide between urban and rural areas
- Limited digital skills among the workforce
- Cybersecurity risks
- Regulatory and institutional constraints

Addressing these challenges requires coordinated efforts between government, private sector, and educational institutions.

8. Policy Recommendations

8.1 Strengthening Digital Infrastructure

Investment in high-speed internet and data centers is essential to support digital services.

8.2 Enhancing Digital Literacy

Education systems should integrate digital skills training to prepare the workforce for future demands.

8.3 Supporting Startups and SMEs

Providing financial incentives, incubation programs, and access to global markets can accelerate innovation.

8.4 Promoting Public-Private Partnerships

Collaboration between government and private sector can drive large-scale digital initiatives.

8.5 Ensuring Cybersecurity

Developing robust cybersecurity frameworks is crucial to protect digital assets and build trust.

9. Discussion. Beyond statistics and policies, digital transformation in Uzbekistan is about people. It is about a farmer using a smartphone to check market prices, a student accessing global education online, and an entrepreneur launching a startup from a small town.

The digital economy is not just technology—it is empowerment. It bridges gaps, creates opportunities, and gives individuals the tools to shape their own futures. Uzbekistan stands at a turning point where technology can transform lives, not just industries.

10. Conclusion. Uzbekistan's journey toward a digital economy presents immense opportunities for sustainable growth and global integration. By leveraging IT platforms, adopting emerging technologies, and embracing innovative business models, the country can accelerate its development trajectory. However, success depends on inclusive policies, strong infrastructure, and continuous innovation. A human-centered approach to digital transformation will ensure that the benefits of technology reach all segments of society.

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USING ARTIFICIAL INTELLIGENCE IN TEACHING ENGLISH

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Abstract: The current globalization era discusses the use of artificial intelligence in language learning and teaching for primary school students and its importance. In addition, it examines the advantages of personalized learning, pronunciation analysis, and automatic assessment mechanisms using modern platforms. It also highlights the advantages and disadvantages of artificial intelligence in teaching elementary