

Future-Ready Economies: The Impact of Digitalization on Uzbekistan-South Korean Economic Relations

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Abstract: This article explores the impact of digitalization on the economic relations between Uzbekistan and South Korea, highlighting how both countries leverage technology to strengthen their economic futures. Uzbekistan is implementing significant digital reforms under its "Digital Uzbekistan 2030" initiative to enhance economic diversification and global integration. In contrast, South Korea, a global leader in digital innovation, uses its advanced technological infrastructure to expand its economic influence and maintain a competitive edge.

By examining digital policies, joint ventures, and specific technological initiatives, the analysis reveals how digitalization is reshaping trade, industry, and bilateral cooperation between these nations. The study provides insights into the successes, challenges, and future opportunities for economic collaboration in the digital era, suggesting that digitalization is crucial for sustainable economic growth and international competitiveness.

Keywords: Digitalization, Economic relations, Uzbekistan, South Korea, Technological innovation, Economic growth, Bilateral cooperation, Digital economy.

Introduction

In an era where digital technology reshapes borders and markets, the speed and scope of digitalization define a nation's competitive edge and its place on the global stage. The profound impact of digital transformations on economic relations between nations is a narrative of innovation, policy adaptation, and strategic collaboration. This is vividly exemplified in the evolving economic relations between Uzbekistan and South Korea—two dynamically different economies, both striving to harness the power of digital technologies to future-proof their economic landscapes.

Uzbekistan, with its rich historical legacy and strategic Central Asian location, has embarked on a path of significant economic reform and digital transformation. The nation aims to leverage digital technologies to enhance its economic diversification and integrate more profoundly with global markets¹. South Korea, recognized as a global leader in innovation and technology, offers an intriguing contrast and complement to Uzbekistan's initiatives². The country's cutting-edge technological landscape and robust digital policies provide a benchmark and a partner for nations seeking to accelerate their digital journey³.

¹ "Digital Uzbekistan 2030: National Strategy," Ministry of Development of Information Technologies and Communications of the Republic of Uzbekistan

² "Innovation Report 2020," South Korean Ministry of Science and ICT

³ "Digital Economy Outlook 2021," OECD Publishing

The relevance of studying the digital economic relations between Uzbekistan and South Korea stems from their distinctive approaches to digitalization and the mutual benefits that their economic cooperation can generate. For Uzbekistan, South Korea represents a model and a partner in adopting advanced technologies and developing sectors such as e-commerce, smart manufacturing, and digital services⁴. For South Korea, Uzbekistan offers strategic access to emerging markets and a new frontier for the export of technological expertise and investments⁵.

This article aims to explore the depths and nuances of how digitalization impacts the economic interactions between these two nations. It will cover the individual digital transformations of each country, analyze their joint digital initiatives, and evaluate the broader implications of their partnership. By understanding these dynamics, the article seeks to illuminate the potential pathways through which Uzbekistan and South Korea can further their economic interests and contribute to shaping a digital future that promises unprecedented opportunities for growth, innovation, and collaboration.

Background

Uzbekistan: Since gaining independence in 1991, Uzbekistan has progressively transitioned from a centrally planned economy to a more market-oriented one. This shift has been marked by significant structural reforms such as currency stabilization, improvement in the private sector, and fostering open market policies to attract foreign investment. The most ambitious of these reforms is encapsulated in the "Digital Uzbekistan 2030" vision, which aims to digitally transform the economy by enhancing connectivity, boosting digital skills, and integrating digital technologies across various sectors⁶.

South Korea: South Korea's transformation into an economic powerhouse is a result of deliberate state-led industrial policy and heavy investment in education and technology. Starting from the 1960s, the government's focus on creating a robust industrial base and a competitive technology sector has paid off remarkably. Today, South Korea stands as a leading global innovator noted for its advances in digital technology and a highly developed digital economy. It's home to some of the world's leading technology firms and has one of the highest rates of technology adoption⁷.

Methodology

Digitalization in Global Context:

Globally, the digital economy is rapidly becoming a critical component of modern economic systems. Digitalization affects all aspects of life, reshaping industries, altering job markets, and changing the way businesses and governments operate. In recent years, particularly in response to the COVID-19 pandemic, there has been an accelerated shift towards digital services and platforms, underscoring the importance of digital readiness in modern economies⁸. This global trend highlights the increasing interconnection between digital technology and economic growth, with a significant shift towards automation, data exchange, and online commerce⁹.

International Trade and Digitalization:

The advent of digital technology has transformed international trade. Digital platforms and tools have enabled businesses, especially small and medium-sized enterprises (SMEs), to access global markets more easily. E-commerce, digital payments, and automated supply chains are now fundamental components of international trade, facilitating faster, more cost-effective transactions that are accessible to a broader range of businesses. Emerging economies,

⁴ "Digital Transformation Strategy for Uzbekistan," World Bank Reports

⁵ "Korea's Digital Trade and Investment Strategies," Korea International Trade Association

⁶ Ministry of Development of Information Technologies and Communications of the Republic of Uzbekistan. "Digital Uzbekistan 2030"

⁷ <https://www.worldbank.org/en/country/korea/overview>

⁸ United Nations Conference on Trade and Development (UNCTAD). "Digital Economy Report 2021"

⁹ Schwab, Klaus. "The Fourth Industrial Revolution: what it means, how to respond." World Economic Forum, January 14, 2016

recognizing the potential of digitalization to overcome traditional barriers to economic development, are investing heavily in digital infrastructure to harness these benefits¹⁰.

Digital Transformation in Uzbekistan

Uzbekistan's national ambition to transform into a digitally enabled economy is evident in its comprehensive "Digital Uzbekistan 2030" strategy. This strategic framework is not just about upgrading the country's digital infrastructure; it represents a holistic approach to fostering a digital culture across all layers of society and economy.

Current Digital Landscape: Since the launch of the digital transformation initiative, Uzbekistan has made significant strides in building a robust digital infrastructure. The government has prioritized improving internet access across urban and rural areas, leading to increased digital connectivity. Efforts to enhance mobile network coverage have also been significant, resulting in widespread adoption of mobile services and an increase in mobile commerce transactions. As of 2023, major cities like Tashkent, Samarkand, and Bukhara are experiencing a digital boom, with public Wi-Fi zones, digital kiosks, and smart city technologies becoming increasingly commonplace¹¹.

Key Digital Policies and Initiatives: Uzbekistan's digital policies are shaped by the need to foster an environment conducive to technological innovation and digital entrepreneurship. The "*One Million Uzbek Coders*" initiative, for example, is designed to combat the skills gap by providing free access to coding courses for young Uzbeks, thereby cultivating a generation equipped to thrive in a digital economy. Furthermore, the government has launched several e-government services that simplify various administrative processes for citizens and businesses alike, promoting transparency and efficiency in public service delivery¹².

Another notable initiative is the development of the "Silk Road" digital hub, aimed at enhancing Uzbekistan's role in digital trade routes between the East and the West. This project is part of a broader vision to establish Uzbekistan as a central link in Eurasia's digital infrastructure, facilitating data flow and digital commerce across continents¹³.

Impact on Economy: The impact of these digital transformations is multifaceted. In the agricultural sector, for instance, digital technologies such as drone-based monitoring systems and IoT-based smart farming techniques have revolutionized traditional practices, leading to higher productivity and better resource management. In the manufacturing sector, the adoption of Industry 4.0 technologies has enabled factories to improve efficiency and reduce costs through automation and real-time data analytics¹⁴.

The burgeoning tech startup ecosystem in Uzbekistan is another testament to the positive effects of digital transformation. With the support of government programs and international partnerships, local startups are increasingly contributing to economic diversification, creating jobs, and driving innovation.

Challenges and Opportunities: Despite these advancements, Uzbekistan faces several challenges in its digital transformation journey. Digital literacy remains low in rural areas, hindering widespread adoption of digital technologies. Additionally, issues of cybersecurity and data privacy are emerging as significant concerns, requiring robust regulatory responses and public awareness initiatives.

However, the opportunities presented by digitalization far outweigh these challenges. As Uzbekistan continues to invest in digital education and infrastructure, it can harness the full

¹⁰ International Trade Centre. "E-commerce in Developing Countries: Opportunities and Challenges for Small and Medium-Sized Enterprises"

¹¹ <https://globalcio.com/articles/main/digital-transformation-of-uzbekistan/>

¹² <https://documents1.worldbank.org/curated/en/099110623155540364/pdf/BOSIB0bffa70a055092ad0700f8cf4b156.pdf>

¹³ Uzbekistan Ministry of Investments and Foreign Trade. "Silk Road Digital Hub Initiative"

¹⁴ Asian Development Bank. "Uzbekistan: Enhancing Agriculture through Technology"

potential of digital technologies to stimulate economic growth, enhance public service delivery, and improve overall quality of life for its citizens¹⁵.

Digital Transformation in South Korea

South Korea's digital transformation is deeply embedded in its national identity as a technology-driven economy. With a history of rapid industrialization powered by information technology, the country has consistently prioritized digital innovation as a core component of its economic strategy.

Advanced Digital Landscape: South Korea's commitment to digital technology is evident in its world-class internet connectivity, which is among the fastest and most widely available on the planet. This connectivity has been a significant driver for the country's digital economy, facilitating the growth of major tech companies and a vibrant ecosystem of startups. The government has heavily invested in broadband and wireless infrastructure, ensuring that digital access is ubiquitous across the country¹⁶.

Moreover, South Korea has been at the forefront of developing and deploying 5G technologies, which have revolutionized industries by enabling faster and more reliable internet services. The deployment of 5G has not only enhanced consumer services but also industrial applications, paving the way for innovations in smart manufacturing, autonomous vehicles, and IoT solutions¹⁷.

Government Initiatives and Policies: The South Korean government's proactive approach to digitalization is demonstrated through various initiatives aimed at fostering innovation and supporting digital ventures. The "I-Korea 4.0" policy, for example, aims to promote the fourth industrial revolution technologies such as artificial intelligence (AI), big data, and cloud computing. This initiative is designed to integrate these technologies across all economic sectors to drive productivity and maintain global competitiveness¹⁸.

Additionally, South Korea's focus on digital education and skill development is crucial for sustaining its technological leadership. Programs aimed at enhancing digital skills from primary education through to professional development are integral to the country's strategy, ensuring a well-prepared workforce adept in the latest digital technologies¹⁹.

Economic Impact: The economic impact of digital transformation in South Korea is profound. The tech sector is a significant contributor to the national GDP, and digital innovations have spurred growth in various industries. E-commerce, in particular, has seen explosive growth, supported by robust digital payment systems and advanced logistics networks. South Korea's entertainment industry, including K-pop and gaming, has also greatly benefited from digital advancements, gaining unprecedented global reach and generating substantial economic returns²⁰.

Furthermore, digitalization has enabled South Korea to enhance its export capabilities, making it a leader in shipping high-tech goods around the world. The digital approach has streamlined trade processes, making them more efficient and less costly²¹.

¹⁵ United Nations Development Programme in Uzbekistan. "Addressing Cybersecurity and Digital Literacy Challenges"

¹⁶ <https://www.kisa.or.kr/EN>

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<https://www.mst.go.kr/eng/newsLetter/view.do?sCode=&mId=&mPid=&pageIndex=3&newsLetterSeqNo=41&searchOpt=#:~:text=5G%2B%20Strategy%20goals%20and%20main%20contents&text=The%20Korean%20government%20aid%20out, strategic%20areas%20to%20this%20end>

¹⁸ Ministry of Economy and Finance, South Korea. "I-Korea 4.0 Initiative Overview"

¹⁹ Ministry of Education, South Korea. "Digital Education Strategy"

²⁰ Korea Creative Content Agency. "Economic Impact of the Digital Transformation in the Entertainment Industry"

²¹ Korea Trade-Investment Promotion Agency (KOTRA). "Impact of Digitalization on Exports"

Challenges and Opportunities: While the path of digital transformation presents numerous opportunities, it also comes with challenges. Cybersecurity remains a critical issue, as increased digital connectivity increases vulnerability to cyber attacks. Addressing these risks is paramount for safeguarding the digital ecosystem.

The opportunities for future growth in South Korea's digital economy are vast. As the country continues to innovate and adapt, it is well-positioned to lead in areas such as AI, robotics, and next-generation mobile networks. These advancements will likely continue to propel economic growth and enhance South Korea's position as a global digital leader²².

Bilateral Digital Initiatives and Collaboration

The strategic digital partnership between Uzbekistan and South Korea has become a cornerstone of their bilateral relations, enhancing not just economic ties but also fostering technological exchange and innovation. This collaboration is driven by a shared vision to harness digital technology for economic development and societal benefit.

Joint Ventures and Partnerships: One of the most significant areas of cooperation has been in the telecommunications sector. South Korean companies have played a pivotal role in expanding and modernizing Uzbekistan's digital infrastructure. This includes projects like the development of national broadband networks and the introduction of advanced mobile services across Uzbekistan. These initiatives not only improve connectivity but also lay the groundwork for future tech-driven projects in areas such as IoT and cloud computing²³.

Further, the collaboration extends to digital governance. South Korea, with its advanced e-government platforms, has assisted Uzbekistan in developing similar technologies to enhance the efficiency and transparency of governmental services. This transfer of knowledge and technology has led to significant improvements in how public services are delivered in Uzbekistan, mirroring some of the digital administrative efficiencies seen in South Korea²⁴.

Impact on Bilateral Trade: Digital initiatives have also made a significant impact on trade between the two nations. Enhanced digital trade frameworks have streamlined customs procedures and logistics, greatly facilitating the flow of goods and services. South Korean electronics and automotive parts are now more accessible in the Uzbek market, while Uzbekistan's agricultural and textile products find wider markets in South Korea. Digital trade platforms have reduced barriers, enabling small and medium-sized enterprises in both countries to participate more actively in bilateral trade²⁵.

Cultural and Educational Exchanges: Cultural and educational exchanges have been integral to strengthening ties, with several programs aimed at fostering a deeper understanding and cooperation in the digital field. South Korean universities and institutions offer scholarships and research opportunities to Uzbek students in areas such as digital media, robotics, and artificial intelligence. These educational exchanges are complemented by cultural programs that promote mutual understanding and appreciation of each nation's digital and cultural advancements⁴.

Future Projects: The future of Uzbek-South Korean digital collaboration looks promising, with plans to expand into more complex areas like smart city technologies. Tashkent's Smart City initiative, supported by South Korean technology, aims to implement intelligent transport systems, energy-efficient buildings, and sustainable urban development projects. These initiatives are expected to serve as a model for other regions in Uzbekistan and potentially for other Central Asian countries²⁶.

²² National Information Society Agency (NIA), South Korea. "Future Digital Economy: Challenges and Opportunities"

²³ Ministry of Information Technologies and Communications of Uzbekistan. "Partnership Projects in Telecommunications with South Korea"

²⁴ E-Government of the Republic of Uzbekistan. "Collaborations in E-Government Systems with South Korea"

²⁵ Korea Trade-Investment Promotion Agency (KOTRA). "Enhancing Bilateral Trade through Digitalization"

²⁶ Ministry of Higher Education of Uzbekistan. "Scholarships for Digital Studies in South Korea"

Additionally, both countries are exploring partnerships in emerging technologies such as artificial intelligence and big data analytics. These technologies are crucial for the next wave of economic development and can significantly enhance sectors like healthcare, education, and public safety in both nations²⁷.

Results and Discussions

Case Studies

Case Study 1: Digital Transformation in Uzbekistan's Healthcare System

Uzbekistan has embarked on a significant reform to revolutionize its healthcare system through digitalization. The project, known as "e-Health Uzbekistan," was launched with the goal of integrating digital technology into the healthcare infrastructure to enhance service delivery and patient care.

Implementation and Impact: The initiative involves the implementation of a unified electronic health record system (EHR) across all medical facilities. This system facilitates the digital recording, updating, and retrieval of patient data, reducing paperwork and minimizing errors. By mid-2022, the project had connected over 1,200 healthcare facilities nationwide, significantly improving the coordination of care and enabling remote consultations and telemedicine services.

A critical component of the initiative was training healthcare professionals on the new system, ensuring a smooth transition and adoption. The project also implemented advanced data analytics to monitor health trends and outbreaks, leading to more proactive public health responses²⁸.

The impact has been profound, with noticeable improvements in patient wait times and satisfaction levels. Furthermore, the system has allowed for better resource allocation, predictive analytics for disease outbreaks, and improved health outcomes across populations.

Case Study 2: Busan Smart City Initiative

South Korea's approach to urban management through digital transformation is epitomized in the Busan Smart City Initiative. This ambitious project seeks to integrate IoT, AI, and big data to create an interconnected urban environment that enhances the quality of life for its residents.

Implementation and Impact: The initiative covers various sectors, including transportation, public safety, and environmental management. In transportation, AI-powered traffic management systems dynamically adjust traffic signals and route recommendations based on real-time data, reducing congestion and travel times. In public safety, the city has deployed a network of sensors and cameras that use facial recognition and motion detection technologies to enhance security measures.

Environmental monitoring has also been a key focus, with sensors placed throughout the city to track air and water quality. This data is used to provide real-time environmental updates to residents and to inform government policies on pollution control²⁹.

The initiative has not only improved municipal services but also encouraged civic engagement by enabling residents to interact directly with city management systems through a dedicated mobile app. This app allows citizens to report issues, access information, and receive updates, fostering a more responsive and transparent urban administration.

Comparative Analysis: Both Uzbekistan's and South Korea's projects demonstrate the transformative potential of digital technologies when aligned with clear governmental vision and commitment. While Uzbekistan's focus has primarily been on healthcare, South Korea's project showcases a broader application across multiple facets of urban life. Each case study provides

27 <https://govinsider.asia/intl-en/article/south-korea-leverages-open-government-data-for-ai-development>

28 Ministry of Health of Uzbekistan. "Evaluation of the e-Health Uzbekistan Initiative", 2022

29 Busan Metropolitan City. "Annual Report on the Busan Smart City Project", 2022

valuable insights into how tailored digital solutions can address specific national or local challenges, leading to substantial improvements in public services and governance.

Implications and Future Directions

As Uzbekistan and South Korea continue to advance their digital transformations, the implications for their economies and their bilateral relations are substantial. This section evaluates the broader impacts of these changes and provides insights into potential future directions for both nations.

Economic Implications:

For Uzbekistan, the digital transformation is poised to drive economic diversification, moving away from its traditional reliance on commodities like cotton and gold. By leveraging digital technologies, the country can enhance productivity and competitiveness in various sectors, including agriculture, manufacturing, and services. The digitalization of public services is expected to attract more foreign investment by improving the business environment and making governance more transparent and efficient.

For South Korea, continued innovation and leadership in digital technologies reinforce its position as a global tech hub. The economic implications extend beyond national borders, as South Korea's technology products and digital solutions find robust markets worldwide. Additionally, South Korea's digital economy contributes significantly to its GDP, with growth propelled by exports of high-tech goods and digital services.

Strategic Implications:

The strategic implications of digitalization for Uzbekistan and South Korea include enhanced security, greater economic resilience, and improved international competitiveness. Both countries recognize that a robust digital infrastructure can serve as a buffer against global economic shocks and disruptions, as evidenced during the COVID-19 pandemic.

Moreover, the strategic partnership in digital initiatives allows for a deeper bilateral relationship, opening up opportunities for cooperation in education, cybersecurity, and technological innovation. This partnership not only benefits Uzbekistan and South Korea but also sets a precedent for other countries in their respective regions.

Recommendations for Strengthening Digital Ties:

- **Enhance Educational Exchanges:** Both nations should consider expanding their educational exchange programs to focus on digital skills and technology transfer. This could involve joint degrees, professional training programs, and research collaborations focusing on areas like AI, cybersecurity, and data science.
- **Invest in Joint Innovation Hubs:** Establishing joint innovation hubs could serve as centers for technological exchange and development. These hubs would support startups and enterprises from both countries in exploring new technologies and co-developing digital solutions.
- **Develop a Bilateral Digital Trade Agreement:** A formal agreement focused on digital trade could streamline regulations, protect digital content rights, and facilitate e-commerce between Uzbekistan and South Korea. This would enhance access to digital goods and services and support the growth of digital economies.
- **Collaborate on Cybersecurity Initiatives:** As both nations digitize their economies, cybersecurity becomes increasingly critical. Collaborative efforts to enhance cybersecurity measures, share best practices, and develop secure digital infrastructure are essential.

Future Directions:

Looking forward, the digital landscape is likely to evolve with advancements in technology and shifts in global economic conditions. Both Uzbekistan and South Korea need to remain adaptable

and proactive in updating their digital strategies. Continued focus on innovation, along with policies that support sustainable and inclusive digital growth, will be crucial for both nations as they navigate the future of their digital economies.

Conclusion

This article has examined the profound impact of digital transformation on the economic relations between Uzbekistan and South Korea, two nations that, while differing in their stages of digital maturity, share a commitment to leveraging technology for economic advancement. Through a detailed exploration of their respective digital strategies, initiatives, and collaborative projects, it has become evident that digitalization is not merely a supplement to their economies but a pivotal driver of their economic evolution.

Key Findings:

- Digital Infrastructure and Policy Frameworks:** Both nations have made significant investments in digital infrastructure and have implemented forward-thinking policies that facilitate digital adoption. Uzbekistan's focus has been on broadening access and integrating digital technologies into public services, while South Korea has emphasized innovation and global competitiveness in high-tech industries.
- Economic and Strategic Impacts:** The digital initiatives undertaken by both countries have yielded substantial economic benefits, including increased productivity, enhanced competitiveness, and improved public services. Strategically, these initiatives have strengthened bilateral ties, paving the way for future cooperation in emerging technologies and digital trade.
- Challenges and Opportunities:** Despite their successes, both countries face ongoing challenges, such as digital literacy, cybersecurity, and ensuring inclusive access to digital technologies. Addressing these challenges head-on is crucial for sustaining digital growth and reaping its full benefits.
- Future Prospects:** The continuation of their digital transformation journeys promises not only to enhance their own economic landscapes but also to contribute significantly to regional and global digital economy dynamics. The potential for further collaboration between Uzbekistan and South Korea, particularly in areas like AI, big data, and cybersecurity, is vast and holds promise for setting benchmarks in digital excellence.

Reflections and Broader Implications:

The digitalization of Uzbekistan and South Korea offers valuable lessons for other countries looking to harness technology for economic development. The strategic integration of digital technologies into economic and societal frameworks can lead to substantial improvements in quality of life, economic resilience, and international competitiveness. Moreover, the partnership between these two nations exemplifies how cross-border collaboration in digital initiatives can yield mutual benefits that extend beyond mere economic gains, fostering deeper intercultural relations and diplomatic ties.

As we look towards a future increasingly dominated by digital interactions, the experiences of Uzbekistan and South Korea highlight the importance of continuous innovation, cooperation, and policy adaptation. Their journey underscores the transformative power of digital technology and sets a precedent for how countries can work together to achieve a more interconnected and prosperous digital world.

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