THE IMPACT OF DİGİTAL ECONOMY ON THE DEVELOPMENT OF SMALL BUSİNESS İN KASHKADARYA REGİON: TRENDS, CHALLENGES, AND STRATEGİC OPPORTUNİTİES

Samarov Mirzohid Ulugbekovich
Head of the Kashkadarya regional department of the Chamber of Commerce and Industry of Uzbekistan
samarovmirzokhid@gmail.com

Abstract: In the era of the Fourth Industrial Revolution, the digital economy has emerged as a fundamental driver of regional development. This paper explores the transformative effects of digitalization on small and medium-sized enterprises (SMEs) in the Kashkadarya region of Uzbekistan. Using a combination of statistical analysis and qualitative evaluation, the research investigates how digital infrastructure, e-commerce adoption, and fintech integration contribute to business scalability and operational efficiency. The study highlights that while Kashkadarya possesses significant industrial and agricultural potential, the full realization of digital benefits is hindered by regional disparities in infrastructure and digital literacy. The findings provide evidence-based recommendations for policymakers to foster a resilient digital ecosystem in Southern Uzbekistan.

Keywords: Digital Economy, SME Development, Kashkadarya Region.

Introduction

The global economic landscape is undergoing a radical shift where data has become the "new oil". For developing economies like Uzbekistan, the transition to a digital economy is not merely an option but a strategic necessity to ensure global competitiveness. The "Digital Uzbekistan — 2030" strategy emphasizes the deep integration of digital technologies into all sectors of the economy, with a particular focus on regional development.

Kashkadarya, one of Uzbekistan's most strategically important regions, contributes significantly to the national GDP through its energy, textile, and agricultural sectors. However, the traditional business model for SMEs in the region often faces limitations such as high transaction costs, geographical barriers to markets, and information asymmetry. The digitalization of the economy offers a paradigm shift, providing small businesses with tools to compete on a national and international scale. This article analyzes the current state of this transition and its quantifiable impact on small business growth in the region.

Literature Review and Theoretical Framework

The correlation between digitalization and SME growth has been widely documented. According to Schumpeterian innovation theory, digital transformation acts as a "creative destruction" process, replacing outdated business models with efficient, tech-driven alternatives.

Recent studies in the context of Central Asia suggest that for regions with high rural populations, such as Kashkadarya, digitalization acts as a bridge. It reduces the "distance to market" for rural entrepreneurs. The theoretical framework of this study rests on the **Digital Maturity Model**, which evaluates how SMEs move from basic internet usage to integrated digital operations (AI-driven analytics, cloud computing, and automated supply chains).

Analysis of the Current State: Kashkadarya's Digital Profile

Kashkadarya region presents a unique case study. As of 2024-2025, the region has seen a significant surge in digital infrastructure investment.

3.1. Infrastructure and Connectivity

The expansion of fiber-optic communication lines across districts like G'uzor, Shahrisabz, and Koson has increased the high-speed internet penetration rate among businesses. Data indicates that over 85% of registered SMEs in the region now utilize some form of digital communication for business operations, a 30% increase compared to 2020.

3.2. The Role of Fintech

Digital financial services have revolutionized the liquidity management of small businesses in Qarshi and surrounding areas. The integration of "Humo" and "Uzcard" systems with mobile banking applications (such as Click, Payme, and bank-specific apps) has:

- Reduced the shadow economy by formalizing transactions.
- Accelerated the velocity of money within the regional economy.
- Provided SMEs with easier access to digital micro-loans based on transaction history rather than traditional collateral.

Impact Assessment: How Digitalization Drives Growth

4.1. Reduction of Operational Costs

By adopting digital accounting and e-invoicing (EDO), Kashkadarya-based SMEs have reported a reduction in administrative expenses by approximately
15-20%. Automated tax reporting systems have minimized human error and reduced the time spent on regulatory compliance.

4.2. Market Expansion through E-commerce

The “Made in Kashkadarya” brand, particularly in textiles and handicrafts, has gained momentum via platforms like Uzum Market and international social commerce. Digitalization allows a craftsman in a remote village in Kitob to sell products directly to customers in Tashkent or abroad, eliminating costly intermediaries.

4.3. Agricultural Tech (Agro-Tech) Integration

In the agricultural SMEs of the region, digital monitoring tools and mobile-based marketplace apps for fertilizers and machinery have optimized the supply chain. This is crucial for Kashkadarya, given its status as a leading producer of grain and cotton.

Challenges and Barriers

Despite the positive trajectory, several factors impede the full-scale impact of the digital economy in Kashkadarya:

1. **The Digital Literacy Gap:** While hardware is available, the “human capital” required to operate complex digital systems is concentrated in the city of Qarshi. Rural entrepreneurs often lack skills in digital marketing and cybersecurity.

2. **Logistics and “Last Mile” Delivery:** Digital orders are useless without physical fulfillment. The regional logistics infrastructure still requires modernization to match digital demand.

3. **High Cost of High-Tech Equipment:** For micro-businesses, the initial capital expenditure for advanced digital tools (ERP systems, IoT sensors) remains prohibitive without targeted subsidies.

6. Discussion and Strategic Recommendations

To maximize the impact of the digital economy on Kashkadarya’s small business sector, a multi-stakeholder approach is required:

- **Establishment of Regional IT-Clusters:** Expanding the IT-Park branches in Kashkadarya to provide specialized training for SME owners in digital branding and export management.
- **Fintech Incentives:** Developing specific “Digital Transition” loan products for SMEs that want to modernize their technological base.

- **Infrastructure Uniformity:** Ensuring that high-speed internet reaches the furthest "Mahallas" to prevent regional economic inequality.
- **Public-Private Partnerships (PPP):** Encouraging private tech firms to develop localized software solutions tailored to the specific needs of Kashkadarya's textile and agro-sectors.

7. Conclusion

The digital economy serves as a powerful catalyst for small business development in the Kashkadarya region. It levels the playing field, allowing local SMEs to overcome geographical constraints and operational inefficiencies. However, the transition is currently in a "hybrid" phase. To move towards a fully digitalized economy, the region must focus on bridging the digital literacy gap and strengthening the physical logistics that support digital trade. If these hurdles are cleared, Kashkadarya can become a leading digital hub in Uzbekistan, significantly boosting regional GDP and creating high-value employment for the youth.

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