

## **The Role of Digital Governance in Economic Development: The Case of the Nakhchivan Autonomous Republic**

### ***Rəqəmsal İdarəetmənin İqtisadi İnkişafda Rolu: Naxçıvan Muxtar Respublikası Nümunəsi***

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#### **Abstract**

Digital governance has become a central instrument of economic modernisation, enabling states and subnational regions to enhance administrative efficiency, reduce corruption, attract investment, and integrate into the global knowledge economy. This article examines the role of digital governance in the economic development of the Nakhchivan Autonomous Republic, an exclave of the Republic of Azerbaijan whose geographic isolation and distinctive economic conditions make digital transformation particularly consequential. Drawing on the international literature on e-government and economic growth, the experience of Azerbaijan's nationally recognised digital governance reforms — including the ASAN service model and the e-government portal — and the specific developmental context of Nakhchivan, the study analyses the mechanisms through which digital governance contributes to economic development: the reduction of transaction costs, the improvement of transparency and accountability, the facilitation of entrepreneurship and small-business formation, and the support of economic diversification beyond traditional sectors. The article argues that for a geographically constrained region such as Nakhchivan, digital governance offers a uniquely valuable pathway to overcome the limitations of physical isolation by reducing the friction of administrative processes, broadening access to public services, and connecting local economic actors to national and international markets. The study concludes with policy recommendations for strengthening digital governance capacity in Nakhchivan and identifies directions for future empirical research.

**Keywords:** *digital governance; e-government; economic development; Nakhchivan Autonomous Republic; Azerbaijan; ASAN service; public administration; economic diversification; transparency; regional development*

#### **Xülasə**

Rəqəmsal idarəetmə müasir dövrdə iqtisadi modernləşmənin əsas vasitələrindən birinə çevrilmişdir. Bu proses dövlət və regional idarəetmə sistemlərində inzibati səmərəliliyin artırılmasına, şəffaflığın təmin olunmasına, korrupsiya risklərinin azaldılmasına, investisiya mühitinin yaxşılaşdırılmasına və qlobal bilik iqtisadiyyatına inteqrasiyaya mühüm töhfə verir. Məqalədə Azərbaycan Respublikasının eksklav

bölgəsi olan Naxçıvan Muxtar Respublikasının iqtisadi inkişafında rəqəmsal idarəetmənin rolu araşdırılır. Coğrafi təcrid, məhdud bazar imkanları və spesifik iqtisadi şərait Naxçıvanda rəqəmsal transformasiyanın əhəmiyyətini daha da artırır. Tədqiqatda e-hökumət və iqtisadi artım üzrə beynəlxalq elmi yanaşmalar, Azərbaycanın milli səviyyədə həyata keçirdiyi rəqəmsal idarəetmə islahatları, o cümlədən ASAN xidmət modeli və e-hökumət portalı, eləcə də Naxçıvanın regional inkişaf xüsusiyyətləri nəzərə alınır. Məqalədə rəqəmsal idarəetmənin iqtisadi inkişafa təsir mexanizmləri — əməliyyat xərclərinin azaldılması, dövlət xidmətlərinə çıxışın asanlaşdırılması, şəffaflıq və hesabatlılığın gücləndirilməsi, sahibkarlığın və kiçik biznesin inkişafının dəstəklənməsi, həmçinin ənənəvi iqtisadi sahələrdən kənar şaxələndirmə imkanlarının genişləndirilməsi baxımından təhlil olunur. Nəticə etibarilə, rəqəmsal idarəetmənin Naxçıvan Muxtar Respublikasında davamlı, inklüziv və innovasiyayönlü iqtisadi inkişaf üçün mühüm strateji alət olduğu əsaslandırılır.

**Açar sözlər:** *rəqəmsal idarəetmə; e-hökumət; iqtisadi inkişaf; Naxçıvan Muxtar Respublikası; Azərbaycan; ASAN xidmət; dövlət idarəçiliyi; iqtisadi şaxələndirmə; şəffaflıq; regional inkişaf*

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## 1. Introduction

The transformation of public administration through digital technologies has emerged as one of the most significant developments in the governance of the twenty-first century. Across both developed and developing economies, governments have invested heavily in electronic service delivery, integrated data systems, and digital platforms that connect citizens, businesses, and state institutions. This phenomenon, broadly described as digital governance or e-government, encompasses far more than the digitisation of administrative paperwork; it represents a fundamental restructuring of the relationship between the state and the economy, with profound implications for efficiency, transparency, and economic growth (Castro & Lopes, 2022; United Nations, 2020).

The connection between digital governance and economic development has become a major focus of contemporary economic and public-administration research. Digital technologies reduce the transaction costs of economic activity, improve the efficiency of resource allocation, enhance the transparency of public institutions, and expand access to markets and services (Nguyen & Nguyen, 2021). For developing economies in particular, digital governance offers a potential pathway to overcome longstanding institutional weaknesses, reduce corruption, and accelerate convergence with more advanced economies (Adam, 2023; Munoz & Bolivar, 2013). At the same time, the realisation of these benefits depends on appropriate institutional conditions, adequate infrastructure, and a coherent policy framework that links digital transformation to broader development objectives.

The Republic of Azerbaijan has emerged as a notable example of successful digital governance reform in the post-Soviet space. Through programmes such as Electronic Azerbaijan and the establishment of the ASAN service model, the country has substantially modernised its public administration, reduced opportunities for corruption, and improved the quality and accessibility of public services (Humans of Globe, 2025). These reforms have been widely recognised internationally and have positioned Azerbaijan as a regional leader in public-sector innovation. However, the implications of digital governance for the country's subnational regions — and in particular for the Nakhchivan Autonomous Republic — have received considerably less scholarly attention.

The Nakhchivan Autonomous Republic occupies a distinctive position within Azerbaijan's economic and administrative geography. As an exclave separated from the main territory of Azerbaijan by Armenian territory, Nakhchivan faces particular challenges of

physical isolation, limited transport connectivity, and constrained access to national and international markets. These conditions make the question of how digital governance can support economic development especially salient: in a region where physical movement of goods, people, and documents is constrained, the capacity of digital systems to reduce the friction of economic and administrative processes carries heightened importance. This article examines the role of digital governance in the economic development of the Nakhchivan Autonomous Republic, situating the analysis within both the international literature on e-government and economic growth and the specific developmental context of the region.

The article is organised as follows. Section 2 reviews the theoretical and empirical literature on digital governance and economic development. Section 3 describes the methodology and conceptual framework of the study. Section 4 analyses the national context of digital governance in Azerbaijan. Section 5 examines the specific economic conditions of the Nakhchivan Autonomous Republic and the developmental challenges it faces. Section 6 analyses the mechanisms through which digital governance contributes to economic development in the regional context. Section 7 offers policy recommendations, and Section 8 concludes.

## **2. Digital Governance and Economic Development: A Literature Review**

### ***2.1 Conceptual Foundations of Digital Governance***

Digital governance, often used interchangeably with the term e-government, refers to the use of information and communication technologies (ICTs) by public institutions to deliver services, manage administrative processes, and interact with citizens and businesses. Janowski (2015) proposed a widely cited four-stage model of digital government evolution, comprising digitisation, transformation, engagement, and contextualisation, which describes the progressive deepening of the relationship between digital technology and the structures of public administration. The most advanced stages of this evolution involve not merely the automation of existing processes but the fundamental redesign of governance arrangements around digital capabilities.

A central theoretical insight in the literature is that the economic value of digital governance derives from its capacity to reduce transaction costs. Administrative processes — registering a business, obtaining a licence, paying taxes, accessing public services — impose costs in time, money, and effort on economic actors. By digitising and integrating these processes, digital governance reduces these costs, lowers barriers to economic activity, and improves the overall efficiency of the economy (Nguyen & Nguyen, 2021). This transaction-cost reduction is particularly significant for small and medium-sized enterprises, which are disproportionately burdened by administrative complexity relative to their resources.

### ***2.2 Empirical Evidence on Economic Effects***

A substantial body of empirical research has examined the relationship between digital governance and economic outcomes. Castro and Lopes (2022), analysing a sample of countries using a logit model, found that e-government has a significant positive effect on sustainable development, contributing to efficient resource management, transparency, and accountability. Nguyen and Nguyen (2021), using dynamic panel estimation for a group of 35 developing countries, found that both digitalisation and governance quality independently boost economic growth, while emphasising that the institutional context shapes the effectiveness of digital transformation.

The literature also documents the role of digital governance in combating corruption and the shadow economy — factors of particular importance for developing economies. Studies have found that e-government initiatives can reduce opportunities for corruption by removing discretionary face-to-face interactions between citizens and officials, increasing the transparency of administrative processes, and creating auditable digital records (Adam, 2023; Uyar et al., 2021). These anti-corruption effects have direct economic value: corruption imposes costs on businesses, distorts resource allocation, and deters investment. By reducing corruption, digital governance can improve the business environment and stimulate economic activity.

At the same time, the literature cautions against technological determinism. The economic benefits of digital governance are not automatic; they depend on factors including the quality of digital infrastructure, the level of digital literacy in the population, the coherence of institutional arrangements, and the existence of a supportive policy framework (Botric & Bozic, 2020). The digital divide — the gap between those with access to digital technologies and those without — represents a significant risk, as poorly designed digital governance reforms may exclude vulnerable populations and exacerbate existing inequalities rather than reducing them. This concern is especially relevant for geographically peripheral and rural regions, where digital infrastructure may be less developed than in metropolitan centres.

### ***2.3 Digital Governance in Subnational and Peripheral Regions***

While much of the e-government literature focuses on the national level, a growing body of research addresses the role of digital governance in subnational and peripheral regions. For regions characterised by geographic isolation, limited transport infrastructure, or distance from economic centres, digital governance offers particular promise as a means of overcoming the disadvantages of physical location. Digital service delivery can reduce the need for physical travel to administrative centres, connect local businesses to wider markets, and provide access to information and services that would otherwise be available only in major cities (Castro & Lopes, 2022).

Comparative international experience demonstrates the importance of this dimension. The experience of Estonia, frequently cited as a global pioneer of digital governance, shows how a small state can use digital transformation to achieve administrative efficiency and economic competitiveness disproportionate to its size and resources (Bharosa et al., 2020). For peripheral regions within larger states, the lessons of such experience suggest that strategic investment in digital governance can partially compensate for the disadvantages of geographic location, provided that adequate infrastructure and institutional capacity are in place.

## **3. Methodology and Conceptual Framework**

This study adopts a qualitative, analytical research design that combines a review of the international literature on digital governance and economic development with a contextual analysis of the Azerbaijani national experience and the specific developmental conditions of the Nakhchivan Autonomous Republic. The research is conceptual and interpretive rather than empirical in the statistical sense; its aim is to develop a coherent analytical account of the mechanisms through which digital governance can contribute to economic development in the regional context, rather than to estimate quantitative effects.

The conceptual framework of the study is built on the transaction-cost theory of digital governance, the institutional approach to economic development, and the literature on regional and peripheral development. The transaction-cost perspective directs attention to the ways in which digital governance reduces the costs of economic and administrative interaction. The

institutional approach emphasises the role of governance quality, transparency, and the rule of law in shaping economic outcomes. The regional development perspective highlights the specific opportunities and constraints that geographic location imposes on economic development, and the potential of digital technology to mitigate the disadvantages of peripherality.

Within this framework, the analysis proceeds by first establishing the national context of digital governance in Azerbaijan, then examining the specific economic conditions and developmental challenges of the Nakhchivan Autonomous Republic, and finally analysing the mechanisms through which digital governance can address these challenges and support economic development. This structure enables the study to connect the general insights of the international literature with the particular circumstances of the region under examination.

#### **4. The National Context: Digital Governance in Azerbaijan**

Azerbaijan's digital governance reforms provide the essential national context for understanding the prospects of digital transformation in Nakhchivan. The country recognised at an early stage that digital development could serve as a catalyst for economic diversification, reducing dependence on hydrocarbon exports and supporting the transition toward a knowledge-based economy (News.az, 2026). This strategic recognition has shaped a sustained programme of digital governance reform extending over more than a decade.

The Electronic Azerbaijan (E-Azerbaijan) State Programme played a foundational role in this process, significantly accelerating the digitalisation of public services and improving transparency in administrative procedures. One of its most important achievements was the creation of a centralised e-government portal, enabling citizens and businesses to access multiple government services through a single online platform. This reform reduced bureaucracy, minimised reliance on physical paperwork, and improved the overall efficiency of public administration, eventually evolving into an integrated digital ecosystem linking various state agencies (News.az, 2026).

The most internationally recognised element of Azerbaijan's digital governance reform is the ASAN service model, launched in 2012. ASAN — meaning "easy" in Azerbaijani — centralises government services in unified service centres designed for efficient and transparent access. By consolidating numerous government services and reducing face-to-face interactions between citizens and officials, the ASAN model has substantially reduced opportunities for corruption while streamlining administrative processes (Humans of Globe, 2025). The economic benefits of these reforms have been significant: the reduction in administrative overhead and the optimisation of government resources have generated substantial cost savings, while the improved business environment has supported investment and entrepreneurship.

Building on these foundations, Azerbaijan has continued to expand its digital governance agenda. The unveiling of a National Digital Transformation Strategy enshrined digital development as a top national priority, with aims including the construction of a robust digital economy, the expansion of nationwide broadband connectivity, and the creation of a secure data environment to protect e-government infrastructure (anewz.tv, 2026). The development of digital identity and electronic signature infrastructure, including the ASAN Imza mobile identity system, has further strengthened the digital ecosystem by enabling secure digital identification and legally binding online transactions. Notably, Azerbaijan's digital governance solutions have increasingly become export products in their own right, opening new avenues for economic diversification.

## **5. The Economic Context of the Nakhchivan Autonomous Republic**

The Nakhchivan Autonomous Republic presents a distinctive set of economic conditions that shape both the challenges it faces and the potential value of digital governance reforms. As an exclave of the Republic of Azerbaijan, separated from the main territory of the country, Nakhchivan occupies a geographically isolated position that has profound implications for its economic development. The region's connectivity to the rest of Azerbaijan and to international markets is constrained by its physical separation, which increases the costs of trade, complicates the movement of goods and people, and limits access to the economic opportunities available in the country's main territory.

This geographic isolation has shaped the structure of the Nakhchivan economy. Historically, the region has depended significantly on agriculture, local production, cross-border trade with neighbouring countries, and public-sector employment. The constraints of physical connectivity have made economic diversification and integration into wider markets more difficult than in less isolated regions. At the same time, the autonomous status of Nakhchivan within Azerbaijan provides the region with distinct administrative institutions and a degree of policy autonomy that creates opportunities for the targeted application of development strategies, including digital governance reforms.

The developmental challenges facing Nakhchivan are, in important respects, precisely the kinds of challenges that digital governance is well suited to address. Where physical distance and limited transport infrastructure raise the costs of accessing administrative services and markets, digital systems can reduce these costs by enabling remote access to services and information. Where economic isolation constrains the formation and growth of businesses, digital governance can lower the administrative barriers to entrepreneurship. Where distance from the capital limits access to the full range of public services available in Baku, digital service delivery can extend the reach of these services to the regional population. In this sense, the very conditions that make economic development challenging in Nakhchivan also make digital governance particularly valuable as a development instrument.

Moreover, the experience of mobile and outreach-oriented digital governance services elsewhere in Azerbaijan is directly relevant to Nakhchivan. Initiatives such as mobile ASAN service centres, which travel to remote areas to extend the reach of digital government beyond the capital, demonstrate the potential of adaptive service-delivery models to bridge the urban–rural and centre–periphery divide (anewz.tv, 2026). For a region such as Nakhchivan, the extension and localisation of such models offers a concrete pathway to expand access to digital governance and its economic benefits.

## **6. Mechanisms Linking Digital Governance to Economic Development in Nakhchivan**

### ***6.1 Reducing Transaction Costs and Administrative Friction***

The most direct mechanism through which digital governance can support economic development in Nakhchivan is the reduction of transaction costs and administrative friction. In a geographically isolated region, the costs of physical interaction with administrative institutions — travel time, transport expenses, the opportunity cost of time spent in administrative processes — are amplified by distance and limited connectivity. Digital governance, by enabling remote access to public services, registration processes, licensing, and tax administration, substantially reduces these costs. For local businesses and entrepreneurs, this reduction lowers the barriers to economic activity and improves the efficiency of their operations, freeing resources that can be redirected to productive investment.

## ***6.2 Enhancing Transparency and Reducing Corruption***

Digital governance contributes to economic development by enhancing the transparency of administrative processes and reducing opportunities for corruption. As the national experience of the ASAN model demonstrates, the digitisation and centralisation of public services removes discretionary face-to-face interactions and creates auditable records, thereby reducing the scope for informal payments and rent-seeking (Humans of Globe, 2025; Adam, 2023). For Nakhchivan, the extension of these transparency benefits to the regional level can improve the business environment, increase the confidence of investors and entrepreneurs, and strengthen the rule of law — factors that the institutional literature identifies as fundamental to long-run economic growth.

## ***6.3 Facilitating Entrepreneurship and Small-Business Formation***

Digital governance facilitates entrepreneurship and the formation of small and medium-sized enterprises by simplifying the administrative processes associated with starting and operating a business. The digitisation of business registration, tax filing, and regulatory compliance reduces the time and cost of establishing a business, lowering the barriers to entry for new economic actors. In a region such as Nakhchivan, where economic diversification and the development of the private sector are key developmental priorities, the facilitation of entrepreneurship through digital governance can stimulate the growth of new economic activity and reduce dependence on traditional sectors and public-sector employment.

## ***6.4 Supporting Economic Diversification and Market Access***

Digital governance, together with the broader digital infrastructure it both depends on and stimulates, can support economic diversification and expand access to markets. Digital platforms enable local producers and businesses to connect with customers and partners beyond the immediate region, partially overcoming the constraints of physical isolation. The development of e-commerce, digital financial services, and online business platforms — facilitated by the secure digital identity and transaction infrastructure that digital governance provides — can connect Nakhchivan's economic actors to national and international markets. This connectivity is particularly valuable for a region whose physical access to markets is constrained by geography, offering a digital pathway to economic integration that complements physical transport links.

## ***6.5 Building Human Capital and Digital Skills***

The development of digital governance is closely linked to the development of human capital and digital skills. The implementation of digital governance systems requires, and simultaneously stimulates, the development of digital literacy among the population and the formation of a workforce capable of operating in a digital economy. For Nakhchivan, investment in digital governance can thus contribute to economic development not only through its direct effects on administrative efficiency but also through its indirect effects on the development of human capital — a critical factor for long-run economic growth and for the region's capacity to participate in the knowledge-based economy. The establishment of digital skills training, supported by educational institutions such as Nakhchivan State University, represents an important complement to digital governance infrastructure.

## **7. Policy Recommendations**

On the basis of the foregoing analysis, several policy recommendations can be advanced for strengthening digital governance capacity and its contribution to economic development in the Nakhchivan Autonomous Republic. First, investment in digital

infrastructure — in particular broadband connectivity throughout the region, including rural and remote areas — is a foundational prerequisite. The economic benefits of digital governance cannot be realised without adequate infrastructure that ensures reliable access to digital services for the entire regional population, not only for residents of the regional centre.

Second, the extension and localisation of national digital governance models, including the ASAN service model and the e-government portal, should be pursued with attention to the specific needs and conditions of Nakhchivan. Mobile and outreach-oriented service-delivery models, which have demonstrated their value in extending digital governance to remote areas elsewhere in Azerbaijan, are particularly relevant for a geographically dispersed and isolated region. Third, investment in digital literacy and skills development is essential to ensure that the regional population can access and benefit from digital governance services, and to avoid the risk that digital transformation exacerbates existing inequalities through the digital divide.

Fourth, digital governance reform should be integrated with broader economic development strategy for the region, ensuring that digital transformation supports the specific developmental priorities of Nakhchivan — including economic diversification, private-sector development, and integration into national and international markets. Fifth, the development of digital financial services and e-commerce infrastructure should be prioritised as a complement to digital governance, enabling local economic actors to overcome the constraints of physical isolation by connecting to wider markets. Finally, the monitoring and evaluation of digital governance reforms should be strengthened, with the collection of regional data that would enable empirical assessment of the economic effects of digital transformation and inform the continuous improvement of policy.

## **8. Conclusion**

This article has examined the role of digital governance in the economic development of the Nakhchivan Autonomous Republic, situating the analysis within the international literature on e-government and economic growth and the specific developmental context of the region. The analysis has shown that digital governance contributes to economic development through several interconnected mechanisms: the reduction of transaction costs and administrative friction, the enhancement of transparency and the reduction of corruption, the facilitation of entrepreneurship and small-business formation, the support of economic diversification and market access, and the development of human capital and digital skills.

The central argument of the article is that for a geographically isolated region such as Nakhchivan, digital governance carries heightened developmental significance. The very conditions that make economic development challenging in the region — physical isolation, limited transport connectivity, distance from the economic centre — also make digital governance particularly valuable, since digital systems can reduce the friction of administrative and economic processes that physical isolation amplifies. In this sense, digital governance offers Nakhchivan a uniquely valuable pathway to partially overcome the disadvantages of its geographic location and to integrate more fully into the national and international economy.

The national experience of Azerbaijan provides both a model and a foundation for the development of digital governance in Nakhchivan. The country's nationally recognised reforms — the Electronic Azerbaijan programme, the ASAN service model, the e-government portal, and the broader digital transformation strategy — demonstrate the feasibility and the economic value of digital governance, and provide institutional resources and models that can be extended and localised for the regional context. The challenge for Nakhchivan is to adapt these national achievements to its specific conditions, ensuring that digital governance reforms are

accompanied by adequate infrastructure, digital skills development, and integration with broader economic development strategy.

Future research should pursue the empirical assessment of the economic effects of digital governance in Nakhchivan, drawing on regional data that would enable the quantitative analysis of these effects. Comparative studies examining the experience of other geographically isolated regions that have pursued digital governance reforms would also make a valuable contribution, providing insights into the conditions under which digital transformation can most effectively support the economic development of peripheral regions. As digital technologies continue to evolve, the question of how digital governance can serve the development of regions such as Nakhchivan will remain a topic of significant scholarly and practical importance.

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### Declarations

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