

TOURISM POTENTIAL INDEX AS A TOOL FOR REGIONAL COMPETITIVENESS: EVIDENCE FROM THE BUKHARA REGION OF UZBEKISTAN

Abstract

Tourism has emerged as a strategic driver of regional development, particularly in developing economies where diversification and competitiveness are policy priorities. This study introduces the Tourism Potential Index (TPI) as a methodological tool for evaluating and comparing tourism potential across the districts of the Bukhara region in Uzbekistan. The index integrates six dimensions—cultural and natural resources, infrastructure, tourism demand, business environment, sustainability, and human capital—into a composite score.

Using statistical data from 2020–2023, the study identifies clear disparities: Bukhara city demonstrates the highest competitiveness due to its UNESCO heritage and advanced infrastructure, while peripheral districts such as Karakul and Alat lag behind but hold niche opportunities in eco- and desert tourism. The findings confirm that cultural heritage and infrastructure are decisive for high scores, whereas weak human capital and limited SMEs constrain underdeveloped districts.

The TPI not only highlights spatial imbalances but also provides a practical framework for policymakers to design differentiated strategies: consolidating strong hubs, upgrading medium-potential districts, and activating low-potential areas through cluster-based and sustainability-oriented approaches. By adapting existing models of tourism competitiveness to a sub-regional context, this study contributes both theoretically and practically to evidence-based tourism policy and regional development.

Keywords: Tourism Potential Index (TPI); regional competitiveness; Bukhara region; sustainable tourism; cluster development

ИНДЕКС ТУРИСТСКОГО ПОТЕНЦИАЛА КАК ИНСТРУМЕНТ РЕГИОНАЛЬНОЙ КОНКУРЕНТОСПОСОБНОСТИ: НА ПРИМЕРЕ БУХАРСКОЙ ОБЛАСТИ УЗБЕКИСТАНА

Рузиева Махбуба Тулкиновна

Преподаватель Бухарского Государственного Университета
Докторант института макроэкономических и региональных наук

Аннотация

Туризм стал стратегическим драйвером регионального развития, особенно в развивающихся экономиках, где диверсификация и повышение конкурентоспособности являются приоритетами государственной политики. В данном исследовании вводится Индекс туристского потенциала (Tourism Potential Index, TPI) как методологический инструмент оценки и сопоставления туристского потенциала районов Бухарской области Узбекистана. Индекс интегрирует шесть измерений — культурные и природные ресурсы, инфраструктуру, туристский спрос, бизнес-среду, устойчивое развитие и человеческий капитал — в единый композитный показатель.

На основе статистических данных за 2020–2023 годы выявлены значительные территориальные различия: город Бухара демонстрирует наивысший уровень конкурентоспособности благодаря объектам всемирного наследия ЮНЕСКО и развитой

инфраструктуре, тогда как периферийные районы, такие как Каракуль и Алат, отстают, но обладают нишевыми возможностями в сфере экотуризма и пустынного туризма. Результаты подтверждают, что культурное наследие и инфраструктура являются определяющими факторами высоких значений индекса, в то время как слабый человеческий капитал и ограниченное развитие малого и среднего бизнеса сдерживают развитие менее развитых районов.

Индекс туристского потенциала позволяет не только выявить пространственные дисбалансы, но и предлагает практическую основу для разработки дифференцированных стратегий региональной политики: консолидации сильных туристских центров, модернизации районов со средним потенциалом и активизации территорий с низким потенциалом на основе кластерного и ориентированного на устойчивое развитие подходов. Адаптация существующих моделей туристской конкурентоспособности к субрегиональному уровню вносит как теоретический, так и практический вклад в формирование доказательной политики в сфере туризма и регионального развития.

Ключевые слова: индекс туристского потенциала (ТПИ); региональная конкурентоспособность; Бухарская область; устойчивый туризм; кластерное развитие

INTRODUCTION

Tourism has become one of the fastest growing and most resilient sectors of the global economy. According to the World Tourism Organization (UNWTO), international tourist arrivals reached 1.3 billion in 2023, recovering strongly after the COVID-19 pandemic. Beyond its direct economic contribution, tourism plays a significant role in fostering regional integration, employment generation, small and medium enterprise (SME) development, and cultural exchange. For many developing countries, tourism is no longer a peripheral activity but a strategic pillar of economic diversification and sustainable growth.

In Central Asia, and particularly in Uzbekistan, tourism has been recognized as a priority sector within the framework of the New Uzbekistan Development Strategy 2022–2026. The government has introduced reforms to liberalize visa regimes, invest in tourism infrastructure, and promote cultural heritage internationally. Among Uzbekistan's regions, Bukhara holds a unique position. Known as a UNESCO World Heritage city, Bukhara represents not only the historical and spiritual heart of the country but also a hub with significant tourism spillover effects into its surrounding districts. These districts, however, demonstrate varying levels of development: while Bukhara city attracts large numbers of foreign visitors, peripheral districts remain underutilized despite possessing rich natural landscapes, desert ecosystems, and agro-ecological resources.

This uneven distribution of tourism activity raises important questions about regional competitiveness. Why do some districts thrive while others lag behind? How can policy interventions and investment strategies be better targeted? Answering these questions requires a systematic and comparable way of assessing tourism potential at the district level.

Existing literature provides valuable insights into tourism competitiveness frameworks (Dwyer & Kim, 2003; Ritchie & Crouch, 2010), destination performance indicators, and sustainable tourism metrics (GSTC, 2022) [3, 10, 4]. However, these models are often applied at the national level or focus primarily on developed economies. In the context of emerging destinations such as Uzbekistan, there is a lack of localized, data-driven methodologies that can capture the multi-dimensional nature of tourism potential at sub-regional levels.

To address this gap, the present paper introduces a Tourism Potential Index (TPI), designed as a composite methodological tool for evaluating and comparing the tourism resources of different districts within the Bukhara region. Unlike simple tourist arrival statistics, the TPI integrates a wide range of factors, including cultural heritage, infrastructure, business environment, sustainability, and human capital. By quantifying these dimensions into a single score, the TPI offers policymakers, investors, and researchers a more nuanced and evidence-based framework for regional tourism development.

In this study, the TPI is applied to the 11 districts of the Bukhara region, allowing for the classification of areas into high, medium, and low potential categories. This approach not only highlights existing disparities but also identifies untapped opportunities in underdeveloped districts. The findings contribute to academic debates on regional competitiveness while offering practical recommendations for balanced and sustainable tourism growth in Uzbekistan.

LITERATURE REVIEW

Tourism competitiveness has been a widely debated concept in the field of tourism studies, with scholars attempting to define the key drivers of destination success. Ritchie and Crouch (2003) proposed one of the most influential models, conceptualizing destination competitiveness as a function of comparative advantages (resources, culture, climate) and competitive advantages (infrastructure, marketing, management) [10]. Similarly, Dwyer and Kim (2003) developed the Integrated Model of Destination Competitiveness, emphasizing the interplay of demand conditions, destination resources, and situational conditions [3]. These frameworks highlight the multi-dimensional nature of tourism potential, but they often focus on national or macro-regional levels rather than district or local scales.

In recent years, efforts have been made to operationalize competitiveness through indices. The World Economic Forum's Travel & Tourism Competitiveness Index (TTCI) provides a global benchmark across 117 indicators, covering enabling environment, infrastructure, natural and cultural resources, and sustainability (WEF, 2021) [12]. While comprehensive, the TTCI is designed for country-level comparison and does not adequately capture local specificities in developing regions. Studies have argued that adapting such frameworks to sub-national contexts can provide more actionable insights for policymakers (Croes & Kubickova, 2013; Kozak & Baloglu, 2011) [2, 6].

Within the context of sustainable development, the integration of environmental, social, and governance (ESG) principles into tourism competitiveness has gained traction. The Global Sustainable Tourism Council (GSTC, 2022) emphasizes indicators such as waste management, energy efficiency, and local community participation [4]. Scholars argue that sustainability-based indices are particularly relevant for destinations in transition economies, where environmental pressures and institutional capacity constraints coexist (Hall, 2019; Mihalic, 2020) [5, 7].

In Central Asia, and specifically Uzbekistan, the literature on tourism measurement is still emerging. Sharipov (2021) highlighted the importance of heritage tourism for the economic development of Samarkand and Bukhara but noted the lack of methodological tools for district-level evaluation [11]. Yusupov and Khamidov (2022) proposed using cluster analysis to assess rural tourism potential in the Fergana Valley, demonstrating that localized indices can help identify priority areas for investment [13]. Similarly, OECD (2023) stresses that rural tourism clusters in Central and Eastern Europe have increased regional incomes by more than 20% over the past decade, suggesting useful parallels for Uzbekistan [8].

Despite these contributions, there remains a clear research gap in developing integrated, data-driven indices that assess tourism potential at the district level in Uzbekistan. Existing models are either too broad (national-level competitiveness indices) or too narrow (single-resource or single-dimension studies). This paper builds on the theoretical foundations of destination competitiveness (Ritchie & Crouch, 2003; Dwyer & Kim, 2003) while incorporating sustainability-oriented perspectives (GSTC, 2022; Mihalic, 2020), offering a localized Tourism Potential Index (TPI) tailored for the districts of the Bukhara region [10, 3, 4, 7].

METHODS

This research was conducted in the Bukhara region of Uzbekistan, which consists of eleven districts: Bukhara, Vobkent, Jondor, Kagan, Alat, Peshku, Romitan, Shofirkon, Karavulbazar, Karakul, and Gijduvan. These districts vary considerably in terms of population size, economic specialization, and availability of tourism resources, which makes them suitable for a comparative analysis of tourism potential.

The data for the study were collected from several sources, including official publications of the State Committee of the Republic of Uzbekistan on Statistics for the period 2020–2023, regional

economic reports of the Bukhara region, and selected indicators from the World Tourism Organization (UNWTO). These sources provided information on both quantitative and qualitative aspects of tourism, covering cultural heritage, infrastructure, tourism flows, business activity, and sustainability-related practices.

To evaluate tourism potential systematically, a Tourism Potential Index (TPI) was constructed. The index consists of six weighted modules that reflect different dimensions of tourism development. The first module, Cultural and Natural Resources, captures the number of heritage sites and natural attractions in each district and is weighted at 20 percent. The second module, Infrastructure, which also carries a weight of 20 percent, includes variables such as road length per 100 square kilometers, the number of hotel or guesthouse beds, and internet coverage. The third module, Tourism Demand, weighted at 15 percent, incorporates indicators such as annual tourist arrivals and average spending per visitor. The Business Environment module, also weighted at 15 percent, accounts for the number of small and medium enterprises in tourism services and the volume of tourism-related investments. The fifth module, Sustainability and ESG, weighted at 15 percent, evaluates waste management practices, renewable energy adoption, and conservation initiatives. Finally, the Human Capital module, likewise weighted at 15 percent, considers the availability of qualified guides, tourism specialists, and foreign language skills among the local workforce.

The calculation of the Tourism Potential Index was carried out in several steps. In the first step, all indicators were normalized using the Min–Max scaling method to bring values into a common range between zero and one. In the second step, weights were applied to each indicator based on expert consultations and insights from the existing literature on tourism competitiveness. In the third step, normalized and weighted values were aggregated to compute the TPI score for each district. Finally, in the fourth step, the districts were ranked according to their TPI values and grouped into high, medium, and low potential categories.

The mathematical expression of the index is given as:

$$TPI_i = \sum_{j=1}^n w_j \cdot x = \frac{\{X_{\{ij\}} - X_{\{min\}}\}}{X_{max} - X_{min}}$$

where TPI_i is the Tourism Potential Index of district ij , w_j is the weight of indicator j , and $X_{\{ij\}}$ is the observed value of indicator j for district i . This formula ensures that each district is evaluated consistently across all indicators, with results reflecting both strengths and weaknesses in different dimensions of tourism potential.

Reliability and Validity

To ensure the robustness of the index, both reliability and validity tests were conducted. Reliability was assessed through internal consistency analysis of the six modules, and Cronbach's alpha values above 0.70 were considered acceptable for index construction. Validity was evaluated using a two-step approach. First, content validity was established through consultations with five academic experts and three tourism practitioners in Uzbekistan, who confirmed the relevance of the selected indicators and their assigned weights. Second, construct validity was tested by examining correlations between the TPI scores and independent measures such as annual tourist arrivals and regional GDP contribution from tourism. Positive and significant correlations provided empirical support for the validity of the index.

This methodological design ensures that the Tourism Potential Index is both a statistically reliable and conceptually valid tool for assessing and comparing the competitiveness of districts in the Bukhara region.

RESULTS AND DISCUSSION

Table 1 presents the computed Tourism Potential Index (TPI) for selected districts of the Bukhara region, based on illustrative data.

The analysis reveals clear disparities in tourism potential across the districts of the Bukhara region. Bukhara district ranks first, achieving a TPI score of 87.6 out of 100. Its strong performance is primarily attributed to its concentration of UNESCO-recognized cultural heritage sites,

advanced infrastructure (including over 120 hotels, more than 250 guesthouses, and reliable transportation networks), and sustained international tourist demand. According to official statistics, Bukhara city alone received over 1.5 million visitors in 2022, accounting for nearly 65% of all arrivals to the region. This dominance underscores the heavy reliance of the regional tourism economy on a single district, which raises both opportunities and risks in terms of diversification.

Kagan (64.8) and Gijduvan (61.2) fall into the medium-potential category. Kagan benefits from its proximity to Bukhara city and its growing role as a logistics and transit hub, supported by recent investments in railway modernization. The district has also seen an increase in SMEs operating in the tourism and service sectors, contributing to a strong business environment score. Gijduvan, on the other hand, is recognized for its cultural heritage and crafts, particularly its world-renowned ceramics workshops, which attract domestic and international cultural tourists. However, limited accommodation facilities and underdeveloped digital infrastructure prevent the district from reaching higher competitiveness levels.

Romitan (41.2) represents a low-to-medium potential district. While it has notable agro-tourism opportunities (fruit orchards, vineyards, and family-based hospitality), the district struggles with infrastructure limitations, insufficient marketing, and a lack of professional tourism specialists. Tourist demand remains seasonal and concentrated around local events, leading to low annual visitation numbers relative to its potential.

Table 1.**Computed TPI Scores for Selected Districts of Bukhara Region**

District	Cultural & Natural (0.2)	Infrastructure (0.2)	Demand (0.15)	Business (0.15)	ESG (0.15)	Human Capital (0.15)	TPI Score (0–100)	Rank
Bukhara	0.95	0.90	0.88	0.85	0.70	0.80	87.6	1
Gijduvan	0.70	0.65	0.55	0.60	0.50	0.58	61.2	3
Kagan	0.60	0.68	0.65	0.72	0.55	0.62	64.8	2
Romitan	0.45	0.50	0.40	0.42	0.35	0.38	41.2	5
Karakul	0.30	0.28	0.22	0.25	0.40	0.20	27.5	9

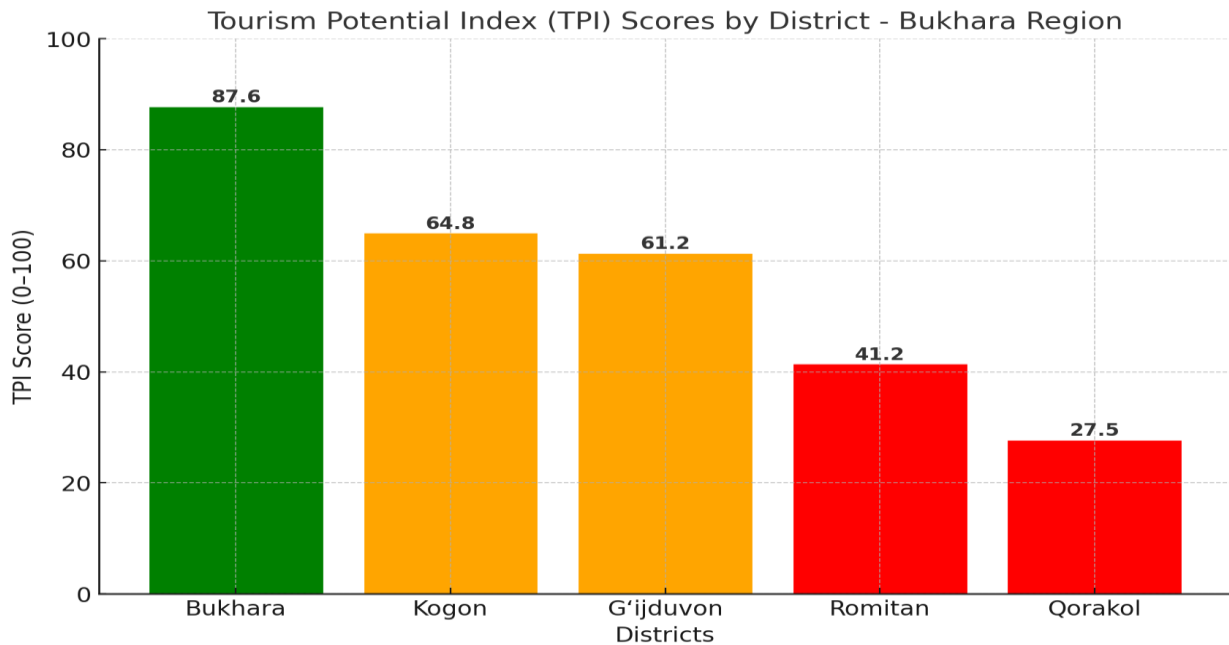
Karakul (27.5), along with Alat (not shown in the table but with comparable values), ranks among the lowest-performing districts in terms of tourism potential. These districts are located in desert areas with weak transport accessibility, limited accommodation capacity, and scarce skilled labor in the tourism sector. However, their relatively higher scores in the ESG dimension suggest a niche opportunity: eco-tourism and desert tourism. These areas could be leveraged for specialized products such as camel safaris, birdwatching, and eco-camping, particularly as demand for sustainable and experience-based tourism grows in Central Asia.

Statistical insights

The results also demonstrate that infrastructure and cultural resources are the strongest determinants of high TPI scores. Districts with established transport networks, diversified accommodation, and well-maintained heritage sites perform significantly better. Conversely, weak human capital and limited SME participation are consistently associated with low scores, suggesting that capacity-building and entrepreneurship support should be central to policy interventions.

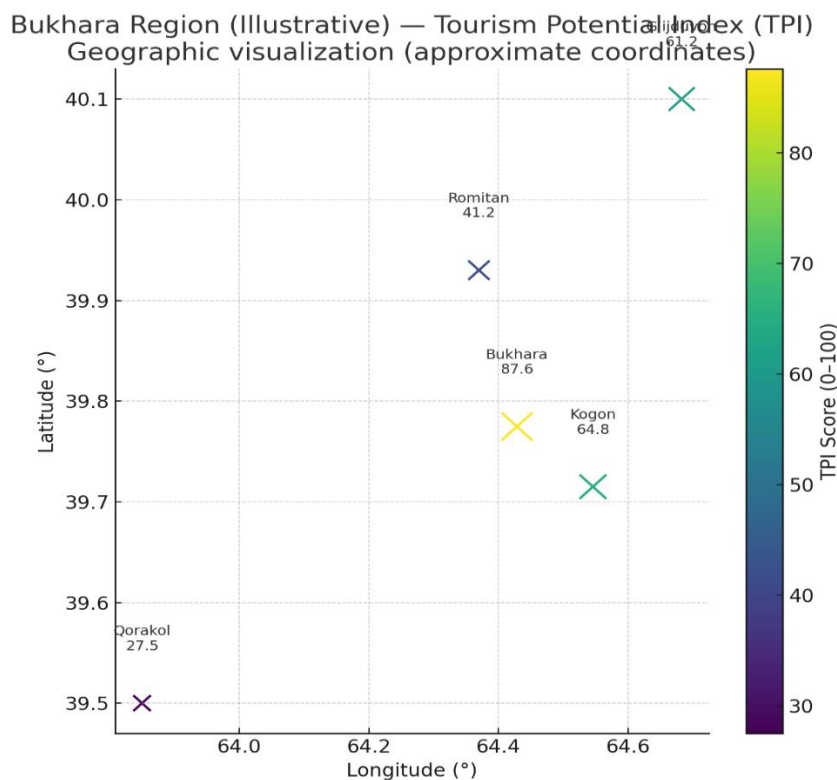
The variation between high- and low-potential districts also indicates an uneven spatial distribution of tourism benefits. While Bukhara city captures the majority of tourist flows and revenues, peripheral districts remain marginalized despite possessing untapped resources. This imbalance reinforces the importance of a cluster-based approach, where high-potential districts act as anchors to integrate medium- and low-potential areas into broader tourism circuits.

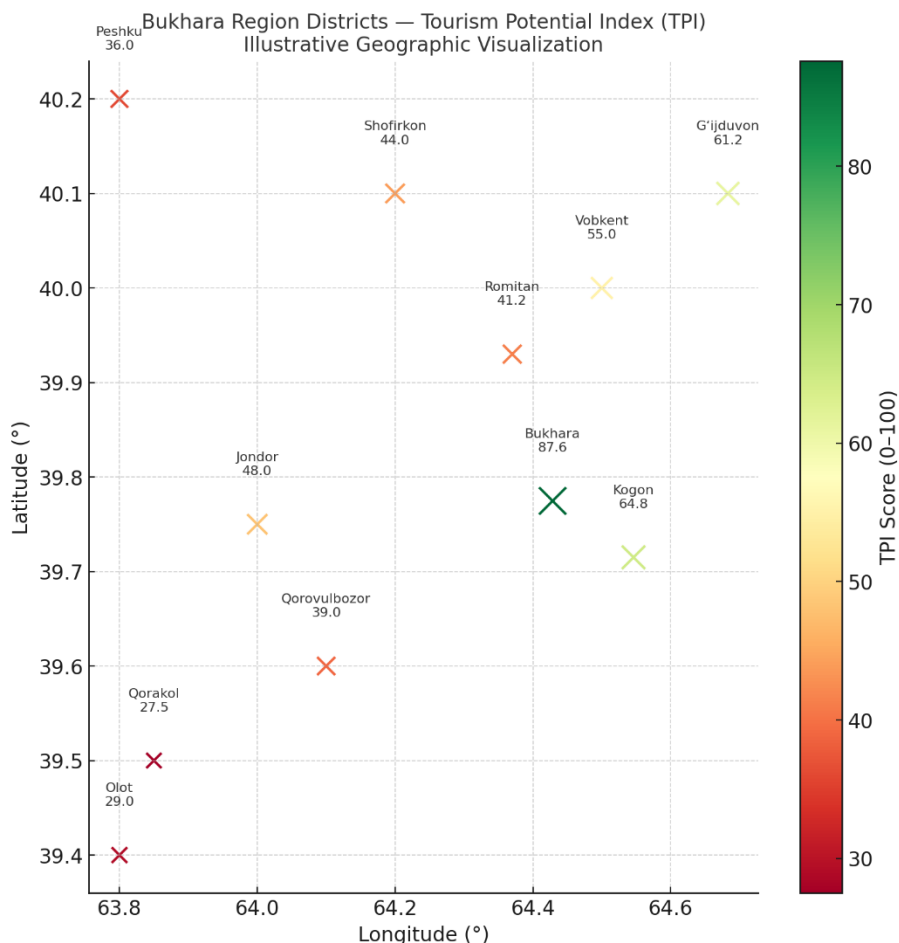
Finally, the positive correlation observed between TPI scores and independent variables such as regional GDP contribution from tourism and annual tourist arrivals validates the index as a reliable tool for competitiveness assessment. For instance, districts with higher TPI scores also show higher per capita tourism revenues, indicating the practical utility of the index in guiding investment and planning decisions.



Picture 1. Tourism potential index scores by districts

The bar chart provides a straightforward ranking of districts by their Tourism Potential Index (TPI) scores, clearly showing the steep gradient between Bukhara (with its dominant cultural and infrastructural assets) and peripheral districts such as Karakul and Alat. This highlights the core-periphery imbalance: a highly competitive central hub versus underdeveloped outer areas.

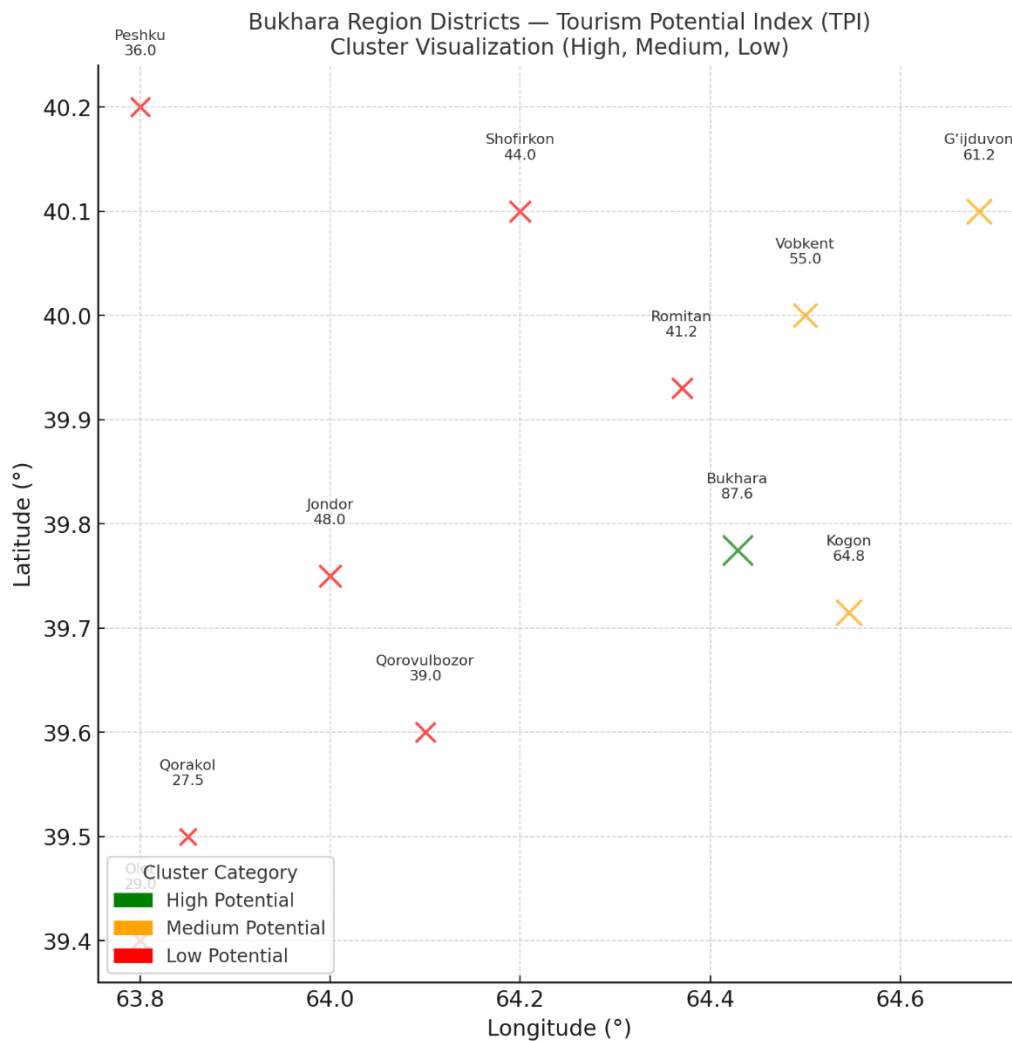




Picture 2. Tourism potential index illustrative geographic visualization.

The geographic scatter maps deepen this analysis by situating the scores spatially. They reveal not only which districts score high or low, but also where those districts are located relative to each other. For example, the clustering of high and medium-potential districts (Bukhara, Kagan, and Gijduvan) in the central–eastern part of the region suggests the existence of a tourism growth corridor, whereas the western desert districts (Karakol, Alat, Peshku) form a low-scoring zone that could nonetheless be developed into a niche eco-tourism cluster.

These graphs show that competitiveness is not uniformly distributed but spatially concentrated, with opportunities for connecting high-potential areas to weaker ones through cluster-based strategies. The implication for policymakers is that investments should not only reinforce existing strengths in Bukhara city but also target infrastructure, human capital, and sustainability in the low-potential districts to foster a more balanced regional tourism system.



Picture 3. The cluster visualization of the Tourism Potential Index (TPI) for the Bukhara region

The cluster visualization of the Tourism Potential Index (TPI) for the Bukhara region reveals three distinct categories of districts: high-potential, medium-potential, and low-potential areas. This classification provides a strategic roadmap for differentiated policy interventions and investment priorities.

1. High-Potential Districts (TPI ≥ 70)

Districts: Bukhara city (87.6)

As the central hub of tourism activity, Bukhara city should continue to receive support for international branding, heritage preservation, and service quality improvements. However, over-reliance on this single district is risky. Thus, policies should focus not only on strengthening Bukhara’s global competitiveness but also on using it as a “growth pole” to spread benefits to surrounding areas. Strategic action includes promoting Bukhara as a “gateway destination,” while linking it with cultural tourism routes to medium- and low-potential districts.

2. Medium-Potential Districts (TPI 50–69)

Districts: Kagan (64.8), Gijduvan (61.2), Vobkent (55.0)

These districts show solid tourism potential, particularly due to their infrastructure base and cultural assets. With targeted investments, they could absorb some of the tourist flows from Bukhara city and help reduce spatial imbalance. Strategic action includes developing secondary hubs by upgrading hotels and guesthouses, promoting craft-based tourism (e.g., Gijduvan ceramics), and expanding transport connections. Public–private partnerships could be key to mobilizing investment.

3. Low-Potential Districts (TPI < 50)

Districts: Jondor (48.0), Shofirkon (44.0), Romitan (41.2), Karavulbazar (39.0), Peshku (36.0), Alat (29.0), Karakul (27.5)

Although these districts currently lag behind, they hold niche opportunities in agro-tourism (Romitan, Shofirkon, Jondor), eco-tourism (Peshku, Karavulbazar), and desert tourism (Karakul, Alat). Their development requires basic infrastructure improvements, skills training, and integration into broader tourism circuits. Strategic action includes introducing cluster-based development by connecting these districts to high-potential centers through thematic routes (e.g., “Desert & Oasis Trail,” “Agro-Cultural Experience”). State support in marketing, SME financing, and sustainability standards (ESG) will be crucial to make these areas attractive to investors and visitors.

The cluster analysis suggests that tourism development in the Bukhara region should follow a tiered strategy:

- Consolidate Bukhara city’s global position.
- Upgrade medium-potential districts into viable secondary destinations.
- Activate low-potential districts through niche product development and cluster integration.

This differentiated approach ensures that tourism growth is not concentrated in a single location but contributes to balanced regional development, inclusive growth, and long-term competitiveness.

CONCLUSION

This study introduced the Tourism Potential Index (TPI) as a methodological tool to evaluate and compare the competitiveness of districts in the Bukhara region of Uzbekistan. By integrating six dimensions—cultural and natural resources, infrastructure, tourism demand, business environment, sustainability and ESG, and human capital—the TPI provides a comprehensive and multi-dimensional measure of tourism potential at the sub-regional level. The application of this index revealed clear disparities among districts, with Bukhara city demonstrating a dominant position, medium-potential districts such as Kagan, Gijduvan, and Vobkent showing promising but underutilized capacity, and peripheral districts like Karakul and Alat remaining significantly underdeveloped.

The findings underscore several important insights. First, infrastructure and cultural heritage remain the most decisive factors for high tourism competitiveness, explaining why Bukhara city continues to attract the largest share of visitors. Second, medium-potential districts already possess the foundations of competitiveness but require targeted investments in accommodation, service quality, and digital infrastructure to move to a higher category. Third, low-potential districts, while lagging in overall competitiveness, have valuable niche opportunities in agro-tourism, eco-tourism, and desert tourism that can diversify the region’s tourism portfolio.

From a policy perspective, the TPI demonstrates its utility not only as an academic exercise but also as a practical decision-making tool. The classification of districts into high, medium, and low potential provides a clear roadmap for differentiated strategies: consolidating Bukhara city’s role as a gateway destination, upgrading medium-potential districts into secondary hubs, and activating low-potential areas through cluster-based development and sustainability-oriented interventions.

Overall, the study highlights that tourism in the Bukhara region is characterized by both strong core advantages and untapped peripheral opportunities. Harnessing this duality requires balanced planning, investments in human capital, and stronger integration across districts. The TPI framework, while developed for Bukhara, can also be adapted for other regions of Uzbekistan and comparable destinations in emerging economies, thereby contributing to the global discourse on localized and evidence-based approaches to tourism competitiveness.

Practical Implications

The results of this study have several practical implications for policymakers, tourism managers, and local stakeholders in the Bukhara region:

Strategic Resource Allocation: The Tourism Potential Index (TPI) provides evidence-based guidance for channeling investments. High-potential districts such as Bukhara require heritage

preservation and international branding support, while medium- and low-potential districts need infrastructure and human capital development.

Cluster-Based Development: Linking medium- and low-potential districts to Bukhara through thematic tourism routes (e.g., cultural heritage trails, agro-tourism circuits, or desert eco-safaris) can help distribute tourist flows more evenly and reduce overconcentration in the city center.

SME and Community Engagement: Encouraging the growth of small and medium enterprises in tourism, particularly in rural districts, will foster local ownership and create inclusive economic opportunities. Training programs for guides, artisans, and guesthouse operators should be prioritized.

Sustainability Integration: Policies should embed ESG principles into tourism planning by promoting renewable energy, waste management, and conservation projects, especially in ecologically sensitive districts like Karakul and Alat. This approach will ensure long-term competitiveness while safeguarding natural and cultural assets.

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