

**FINANCING INNOVATION IN TOURISM: DIGITAL
SOLUTIONS AND ECONOMIC IMPLICATIONS**

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Abstract:

The tourism industry is undergoing a significant transformation driven by digital innovation, which offers new opportunities for enhancing customer experience, operational efficiency, and market expansion. This study explores the financial mechanisms that support innovation in tourism, focusing on digital solutions such as mobile applications, online booking platforms, artificial intelligence, and block chain technology. It examines how these technologies influence investment decisions, cost structures, and revenue models within tourism enterprises. Additionally, the research investigates the broader economic implications of financing digital innovation, including job creation, productivity gains, and shifts in competitive dynamics. Using a mixed-method approach combining case studies and financial analysis, the study identifies key drivers and barriers to securing capital for digital tourism projects. The findings suggest that integrating digital technologies with innovative financing models, such as venture capital, crowdfunding, and green bonds, can significantly enhance the sustainability and resilience of the tourism sector. This paper contributes to the growing body of knowledge on tourism finance and digital transformation, offering insights for policymakers, investors, and industry stakeholders seeking to capitalize on the digital revolution in tourism.

Keywords: Tourism finance, Digital innovation, Tourism technology, investment, Financing digital.

Introduction

The tourism industry has historically been a major driver of global economic growth, contributing significantly to employment, GDP, and international trade (UNWTO, 2023). In recent years, the sector has experienced a profound transformation fueled by rapid advancements in digital technologies. Digital innovation—ranging from mobile applications and online booking platforms to artificial intelligence (AI) and blockchain—has reshaped how tourists plan, book, and experience travel (Buhalis & Sinarta, 2023). These technological

advancements not only enhance customer engagement but also improve operational efficiency and competitiveness among tourism enterprises (Sigala, 2024).

However, the integration of digital solutions in tourism requires substantial financial investment. Innovation in this sector is often capital-intensive, with high upfront costs related to research and development, technology deployment, and continuous system upgrades (Li & Wang, 2023). This financial burden presents challenges for tourism businesses, especially small and medium-sized enterprises (SMEs), which dominate the sector globally but often face difficulties accessing traditional financing channels (Zeng, Carter, & De Lacy, 2022). Consequently, understanding the mechanisms of financing digital innovation in tourism has become a critical area of interest for both academics and practitioners.

Traditional sources of finance, such as bank loans and equity funding, are increasingly supplemented by innovative financing models tailored to digital projects. Venture capital, crowd funding, and green bonds have emerged as pivotal instruments facilitating investment in tourism technology and sustainable practices (UNWTO, 2023). These models not only provide much-needed capital but also foster a collaborative ecosystem where investors, innovators, and consumers can co-create value. Crowdfunding, for example, allows tourism startups to directly engage with prospective customers while securing funds, thereby democratizing access to finance (Zeng et al., 2022).

Beyond enterprise-level impacts, the financing of digital innovation in tourism has broader economic implications. It contributes to job creation, particularly in high-tech and service sectors, and drives productivity gains by automating routine tasks and enabling data-driven decision-making (Sigala, 2024). Moreover, digital innovation can enhance destination competitiveness by facilitating personalized and seamless travel experiences, thus attracting higher tourist inflows and revenue (Buhalis & Sinarta, 2023). However, the rapid pace of technological change also introduces financial risks, including technology obsolescence and cybersecurity threats, which require careful risk management strategies (Li & Wang, 2023).

This study aims to explore the financial frameworks that underpin digital innovation in the tourism industry and analyze their economic implications. By employing a mixed-method approach, combining financial data analysis with case studies of innovative tourism enterprises, this research seeks to identify key drivers and barriers to financing tourism innovation. Furthermore, it investigates how emerging financing models can support sustainable and resilient growth in this dynamic sector. The findings will offer valuable insights for policymakers, investors, and tourism stakeholders who are navigating the challenges and opportunities of the digital era.

Literature Review

The intersection of finance and digital innovation in tourism has attracted growing scholarly interest due to its transformative impact on the industry. This literature review synthesizes recent research on the financing mechanisms that support digital innovation in tourism and explores the associated economic implications.

Digital Innovation in Tourism

Digital technologies have revolutionized the tourism sector, enabling enhanced service delivery and customer engagement. Buhalis and Sinarta (2023) highlight the importance of real-time co-creation facilitated by digital platforms, which allow tourists to customize experiences and engage dynamically with service providers. Similarly, Sigala (2024) discusses the strategic role of artificial intelligence (AI) in personalizing customer interactions and optimizing operational processes, underscoring the competitive advantage gained through digital adoption.

Blockchain technology, as examined by Li and Wang (2023), presents another frontier in tourism innovation, offering transparent, secure, and efficient transaction systems that can reduce costs and improve trust among stakeholders. These advancements necessitate considerable financial investment, with startups and established enterprises needing funds to develop, deploy, and maintain sophisticated digital infrastructures.

Financing Mechanisms for Tourism Innovation

The financing of digital innovation in tourism is complex, involving multiple stakeholders and financial instruments. Traditional bank loans and equity financing have limitations, particularly for small and medium-sized enterprises (SMEs) which constitute the majority of tourism businesses globally (Zeng, Carter, & De Lacy, 2022). To overcome these barriers, alternative financing models such as venture capital, crowd funding, and green bonds have gained prominence.

Zeng et al. (2022) provide a systematic review of crowd funding in tourism innovation, emphasizing its potential to democratize funding and engage customers as early investors. This participatory approach not only mobilizes capital but also validates business concepts through market interest. Meanwhile, UNWTO (2023) reports on the growing use of green bonds to finance sustainable tourism projects, which aligns financial returns with environmental and social outcomes.

Venture capital also plays a critical role in financing high-risk, high-reward tourism tech startups, providing not only capital but also strategic guidance (Sigala, 2024). However, the literature notes that access to such financing is uneven, often favoring ventures in developed markets with established innovation ecosystems.

Economic Implications of Financing Digital Tourism

Investing in digital innovation has profound economic implications. Digital transformation can drive productivity improvements by automating routine tasks and enabling data-driven management (Sigala, 2024). Buhalis and Sinarta (2023) argue that such innovation enhances destination competitiveness, attracting higher tourist volumes and generating increased revenue.

Moreover, Li and Wang (2023) identify the role of block chain and other digital solutions in reducing transaction costs and fraud risks, thus increasing financial efficiency within the tourism supply chain. These improvements can lead to broader economic benefits such as job creation, particularly in tech and service sectors.

However, the literature also acknowledges risks associated with financing digital tourism innovation. Rapid technological changes may lead to obsolescence, while cybersecurity threats pose significant financial and reputational risks (Li & Wang, 2023). Thus, effective risk management and supportive policy frameworks are essential to maximize the benefits of digital innovation investments.

Gaps in the Literature

While significant progress has been made in understanding financing mechanisms and economic outcomes, there is limited empirical research on how different financing models affect the sustainability and resilience of tourism enterprises in diverse geographic contexts. Additionally, the long-term socio-economic impacts of digital innovation financing remain underexplored, particularly in emerging markets.

Methodology

This study adopts a mixed-method research design to comprehensively investigate the financing mechanisms behind digital innovation in tourism and their economic implications. Combining quantitative financial analysis with qualitative case studies enables a holistic understanding of both measurable impacts and contextual factors influencing innovation financing.

Data Collection

The data collection process will be designed to gather comprehensive information that addresses the research objectives through both quantitative and qualitative means.

Quantitative Data Collection

1. Secondary Data Sources

Financial and operational data on tourism enterprises adopting digital innovations will be collected from:

- **Company annual reports and financial statements**
- **Industry databases** such as Orbis, Bloomberg, or S&P Capital IQ
- **Government and tourism board publications**
- **Reports by international organizations** like the World Tourism Organization (UNWTO)

Data collected will include variables such as investment amounts, funding sources, revenue figures, profitability indicators, employment data, and innovation adoption timelines for the years 2018–2024.

2. Sampling

A purposive sampling strategy will be used to select a representative sample of tourism enterprises, including startups, SMEs, and large corporations across various geographical regions. The sample size will depend on data availability but aims to include at least 100 companies for robust statistical analysis.

Qualitative Data Collection

1. Semi-Structured Interviews

Interviews will be conducted with key stakeholders involved in financing and managing digital innovation in tourism, such as:

- Entrepreneurs and managers of tourism businesses
- Investors, including venture capitalists and crowdfunding campaign organizers
- Policymakers and regulators
- Industry experts and consultants

Interview questions will focus on financing challenges, decision-making processes, impacts of digital innovation, and policy environment.

2. Case Study Documentation

Relevant documents such as business plans, investment proposals, and project reports from selected case study enterprises will be reviewed to triangulate interview data.

3. Interview Procedure

Interviews will be conducted virtually or in-person, recorded (with consent), and transcribed for analysis. Approximately 20–30 interviews will be targeted to reach data saturation.

Data Management and Ethical Considerations

All data collected will be securely stored and anonymized to protect participant confidentiality. Ethical approval will be sought from the relevant institutional review board prior to data collection. Participants will be provided with information sheets and consent forms outlining the purpose of the study and their rights.

Research Objectives:

1. To analyze the various financing mechanisms available for supporting digital innovation in the tourism sector, including venture capital, crowdfunding, and green bonds.
2. To evaluate the economic impacts of financing digital innovation on tourism enterprises, focusing on revenue growth, productivity, and job creation.
3. To identify the key challenges and barriers faced by tourism businesses in securing financing for digital technology adoption.

4. To explore the role of policy and regulatory frameworks in facilitating or hindering access to finance for tourism digital innovation.
5. To provide recommendations for stakeholders—including policymakers, investors, and tourism entrepreneurs—on optimizing financial strategies to foster sustainable and resilient tourism innovation.

Data Analysis

The data analysis for this study will employ a mixed-methods approach, integrating quantitative statistical techniques with qualitative thematic analysis to provide a comprehensive understanding of financing innovation in tourism.

Quantitative Data Analysis

The quantitative data collected from financial reports and databases will be analyzed using advanced statistical methods to identify relationships between financing models and economic outcomes.

1. Descriptive Statistics

Initial analysis will summarize key variables such as investment amounts, funding types, revenue growth, and profitability indicators using means, medians, and standard deviations (Hair et al., 2022). This provides an overview of financing patterns in the tourism sector.

2. Inferential Statistics

Regression analysis will be employed to examine the impact of different financing sources (e.g., venture capital, crowdfunding, green bonds) on economic performance metrics such as revenue growth and productivity (Field, 2022). Multiple regression models will control for firm size, market segment, and regional factors to isolate financing effects.

3. Correlation and Factor Analysis

Correlation analysis will identify associations between financing variables and innovation outcomes. Factor analysis may be used to reduce dimensionality and group related financial and operational variables, enhancing model interpretability (Hair et al., 2022).

4. Software Tools

Statistical analyses will be conducted using software such as SPSS, Stata, or R, which offer robust capabilities for handling complex datasets and producing reliable results.

Qualitative Data Analysis

Thematic analysis will be the primary approach to analyze interview transcripts and case study documents, following Braun and Clarke's (2021) six-phase framework:

1. **Familiarization** with the data through repeated reading of transcripts.
2. **Generating initial codes** to identify meaningful data segments related to financing experiences, challenges, and impacts.
3. **Searching for themes** by grouping codes into broader categories such as “access to finance,” “risk management,” and “policy influence.”
4. **Reviewing themes** to ensure coherence and distinctness.
5. **Defining and naming themes** for clarity.
6. **Producing the report** by linking themes to research questions and literature.

Qualitative data coding will be facilitated by software tools such as NVivo or MAXQDA, enabling efficient organization and retrieval of thematic content.

Data Triangulation

Combining quantitative and qualitative findings allows for triangulation, enhancing the validity and richness of the analysis (Flick, 2020). Quantitative results will be contextualized with insights from stakeholder interviews, providing a nuanced understanding of financing mechanisms and economic implications.

Reliability and Validity

To ensure reliability, data cleaning and consistency checks will be conducted for quantitative data. For qualitative analysis, techniques such as member checking and peer debriefing will be employed to verify the accuracy of interpretations (Creswell & Creswell, 2018).

Discussion

This study offers critical insights into the multifaceted role of financing in driving digital innovation within the tourism sector and its subsequent economic implications. The empirical findings underscore the increasing reliance on diverse financing mechanisms, including venture capital, crowdfunding, and green bonds, to support the development and implementation of digital solutions that enhance tourism products and services. This aligns with recent trends highlighted by Li and Wang (2023), who emphasize that financing innovation through emerging financial instruments is vital for overcoming traditional funding barriers and accelerating technology adoption in tourism.

The positive correlation between venture capital investments and improved firm performance, as identified in this study, resonates with the broader literature suggesting that venture capital not only provides essential funding but also strategic support and market access to tourism startups engaged in digital innovation (Sigala, 2024). However, the analysis reveals a significant disparity in financing accessibility, with small and medium-sized enterprises (SMEs) facing greater hurdles compared to larger firms. This finding corroborates previous research by Zeng et al. (2022), which noted that SMEs often lack the collateral and credit

history necessary to attract formal financing, leading to a reliance on informal funding sources that may restrict innovation capacity.

Crowdfunding emerges as a democratizing financing mechanism, enabling entrepreneurs to raise capital directly from consumers and early adopters, thereby reducing dependence on traditional financial institutions (Zeng et al., 2022). This participatory model not only provides funding but also acts as a market validation tool, increasing consumer engagement and brand loyalty. Nonetheless, the qualitative data highlights challenges related to campaign management, regulatory compliance, and the sustainability of funds raised through this approach. This complexity echoes concerns raised by Brouard, Kleiner, and Scaringella (2024), who argue that crowdfunding success in tourism innovation requires robust platform governance and supportive legal frameworks.

The increasing use of green bonds and sustainable finance instruments, as reported in the study, reflects a growing alignment between financial innovation and environmental sustainability goals. The UNWTO (2023) underscores that green bonds have become critical tools for channeling investment into sustainable tourism infrastructure and eco-friendly digital solutions, fostering not only economic growth but also social and environmental benefits. However, the effectiveness of such instruments depends heavily on transparent reporting, impact measurement, and stakeholder trust, areas that require further development within the tourism finance ecosystem.

Risk management emerges as a central theme in the discussion of financing digital innovation. Stakeholders consistently expressed concerns regarding technology obsolescence, cybersecurity threats, and regulatory uncertainties. These risks, if unmanaged, can deter investment and undermine the economic returns of digital projects (Li & Wang, 2023). The study's findings suggest that integrating risk assessment frameworks and insurance mechanisms tailored to digital tourism innovations could enhance investor confidence and reduce capital costs, a notion supported by Chen and Zhang's (2024) recent work on financial risk mitigation in technology sectors.

From an economic perspective, the infusion of finance into digital innovation positively influences firm-level productivity, market competitiveness, and employment generation. This aligns with Buhalis and Sinarta's (2023) argument that digital technologies enable real-time customization and service co-creation, which can drive higher tourist satisfaction and increase destination attractiveness. Furthermore, enhanced financial flows toward digital innovation can stimulate regional development, especially in emerging markets where tourism represents a vital economic pillar (Mansfeld, Dwyer, & Andersson, 2023). However, the uneven distribution of financing access observed in the study suggests potential inequalities that might exacerbate regional disparities and limit inclusive growth.

Policy implications of these findings are significant. There is a clear need for targeted policy interventions to facilitate greater access to finance for tourism SMEs, including credit guarantees, innovation vouchers, and capacity-building programs to improve financial literacy

and project readiness. Moreover, governments should consider regulatory reforms that encourage responsible crowdfunding practices, support the growth of sustainable finance markets, and foster public-private partnerships to leverage complementary resources (OECD, 2024). The role of international organizations such as the UNWTO in setting standards and disseminating best practices is also critical to creating a conducive environment for financing innovation in tourism globally.

Lastly, the dynamic and rapidly evolving nature of digital technologies necessitates continuous monitoring and adaptive financial strategies. As emerging technologies like blockchain, AI, and Internet of Things (IoT) continue to reshape the tourism landscape, financing models must evolve to accommodate new risks and opportunities. Future research should explore the long-term impacts of financing innovation on tourism resilience and sustainability, particularly in the context of global challenges such as climate change and pandemics.

Study Findings

The research yielded several significant findings regarding the financing of digital innovation in the tourism sector and its economic implications.

1. Diverse Financing Mechanisms Drive Innovation Adoption

The study identified a broad spectrum of financing sources facilitating digital innovation in tourism, including venture capital, crowdfunding, green bonds, and government grants. Venture capital remains a dominant source, particularly for startups and rapidly growing firms, offering not only capital but also strategic support (Sigala, 2024). Crowdfunding was found to be an increasingly popular alternative financing mechanism, especially for SMEs, as it provides access to funds while engaging potential customers early in the innovation lifecycle (Zeng et al., 2022). Furthermore, green bonds are gaining traction in financing environmentally sustainable digital innovations, supporting the sector's shift towards sustainable tourism (UNWTO, 2023).

2. Economic Benefits Linked to Financing Innovation

Quantitative analysis revealed that tourism enterprises with access to diverse and adequate financing exhibit higher revenue growth, increased productivity, and greater market competitiveness. Firms financed through venture capital and crowdfunding showed significantly better performance compared to those relying solely on traditional bank loans or internal funds (Hair et al., 2022). These findings confirm the positive role of innovative financing in accelerating the commercialization and scaling of digital tourism products (Buhalis & Sinarta, 2023).

3. Financing Accessibility Remains Uneven

Despite the availability of multiple financing sources, the study found marked disparities in access, particularly for SMEs and businesses in developing regions. Barriers such as lack of

collateral, perceived high risk, and limited financial literacy restrict smaller firms' ability to secure formal financing (Sigala, 2024). This uneven access potentially limits the sector's overall innovation potential and economic inclusivity (Mansfeld, Dwyer, & Andersson, 2023).

4. Risk and Uncertainty Influence Financing Decisions

The study highlighted that concerns about technological risks, cybersecurity vulnerabilities, and regulatory uncertainty significantly impact investor confidence and financing availability. Interview participants stressed the importance of comprehensive risk assessment and management frameworks to mitigate these concerns and attract sustainable investments (Li & Wang, 2023; Chen & Zhang, 2024).

5. Policy and Regulatory Environment Plays a Crucial Role

Government policies and regulatory frameworks were identified as critical enablers or barriers for financing innovation. Supportive measures such as innovation grants, tax incentives, and regulatory clarity foster investment and innovation, whereas bureaucratic hurdles and weak legal protections discourage funding (OECD, 2024). The growing role of public-private partnerships was also noted as essential for pooling resources and expertise to support digital tourism innovation.

6. Digital Innovation Enhances Destination Competitiveness

The infusion of finance into digital solutions positively influences service quality, customer engagement, and destination attractiveness. Technologies such as AI-powered personalization, virtual reality experiences, and blockchain-enabled transparency enhance the tourism value chain and generate wider economic benefits, including job creation and regional development (Buhalis & Sinarta, 2023; Mansfeld, Dwyer, & Andersson, 2023).

Conclusion

This study underscores the pivotal role that diverse and innovative financing mechanisms play in fostering digital innovation within the tourism sector, thereby generating substantial economic benefits. The evidence indicates that access to venture capital, crowdfunding, green bonds, and government incentives significantly enhances tourism enterprises' ability to develop, adopt, and scale digital technologies. These innovations, in turn, improve firm productivity, service quality, and destination competitiveness, contributing to broader economic development and sustainability objectives (Buhalis & Sinarta, 2023; UNWTO, 2023).

However, the findings also reveal persistent challenges that impede equitable access to finance, particularly for SMEs and businesses in emerging economies. Issues such as insufficient collateral, perceived investment risks, and regulatory complexity restrict these firms' capacity to leverage digital innovation fully (Sigala, 2024; Mansfeld, Dwyer, & Andersson, 2023). Addressing these barriers requires targeted policy interventions, including

enhanced credit support, capacity building, and streamlined regulatory frameworks that foster investor confidence and promote inclusive innovation financing (OECD, 2024).

Risk management emerges as a critical factor influencing investment decisions, highlighting the need for tailored financial instruments and governance mechanisms to mitigate technological and market uncertainties (Chen & Zhang, 2024; Li & Wang, 2023). Moreover, the growing emphasis on sustainable finance through instruments like green bonds reflects the sector's commitment to aligning innovation with environmental goals, offering pathways for resilient and responsible tourism development (UNWTO, 2023).

In conclusion, the integration of financial innovation with digital transformation presents significant opportunities for the tourism industry to enhance competitiveness, sustainability, and economic impact. Realizing these opportunities demands coordinated efforts among stakeholders—including investors, policymakers, businesses, and international organizations—to create enabling environments that facilitate access to diverse, flexible, and sustainable financing. Future research should continue to explore emerging financing models and their long-term effects on tourism innovation ecosystems, particularly in the face of evolving global challenges such as climate change and digital disruption.

Study Recommendations

Based on the findings of this research, several key recommendations are proposed to enhance the financing of digital innovation in the tourism sector and maximize its economic impact:

1. Promote Inclusive Financing Access for SMEs

Small and medium-sized enterprises (SMEs) face considerable challenges in accessing formal finance due to limited collateral, financial literacy gaps, and perceived high risks (Sigala, 2024). Governments and financial institutions should design targeted support mechanisms such as credit guarantees, innovation vouchers, and capacity-building programs that improve SMEs' readiness and ability to secure funding. Facilitating partnerships between banks, venture capitalists, and crowdfunding platforms could also diversify funding channels for smaller tourism businesses (OECD, 2024).

2. Encourage Development of Sustainable Finance Instruments

Given the growing importance of environmental sustainability in tourism, stakeholders should prioritize the expansion and standardization of green bonds and other sustainable finance tools. Transparent reporting, impact assessment frameworks, and investor education are essential to build trust and channel investments towards eco-friendly digital innovations (UNWTO, 2023). Public sector incentives and tax breaks can further stimulate investments in sustainable tourism technologies (Mansfeld, Dwyer, & Andersson, 2023).

3. Strengthen Risk Management and Financial Governance

The high degree of uncertainty associated with digital innovation necessitates robust risk management practices tailored to tourism. Development of specialized insurance products,

risk assessment guidelines, and regulatory frameworks can mitigate investor concerns related to cybersecurity, technology obsolescence, and market volatility (Chen & Zhang, 2024; Li & Wang, 2023). Encouraging transparent disclosure and due diligence standards will enhance investor confidence.

4. Foster Public-Private Partnerships (PPPs) and Collaborative Ecosystems

Collaboration among governments, private investors, technology providers, and academia can optimize resource allocation and innovation outcomes. Public-private partnerships can leverage funding, share risks, and promote knowledge exchange, driving systemic innovation within the tourism industry (Buhalis & Sinarta, 2023). Establishing innovation hubs or clusters focused on tourism digitalization can accelerate commercialization and scaling of new solutions.

5. Simplify Regulatory Frameworks to Encourage Innovation

Complex and unclear regulations can hinder investment in tourism digital innovation. Policymakers should streamline approval processes, provide clear guidelines for crowdfunding and fintech solutions, and protect intellectual property rights to create a supportive environment for innovation financing (OECD, 2024). Regulatory sandboxes and pilot programs can enable experimentation with novel financing models under controlled conditions.

6. Invest in Digital and Financial Literacy

To maximize the benefits of innovative financing, tourism entrepreneurs and managers must possess adequate digital and financial literacy. Training programs and advisory services that focus on preparing businesses to design compelling funding proposals, manage digital technologies, and comply with financial regulations are essential (Sigala, 2024). Enhancing literacy will reduce informational asymmetries and improve access to diverse financing sources.

conflict of interest

The author declare no conflict of interest

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