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**Title: Online Travel Agencies and the Digital
Reinvention of Tourism Distribution: An
Analytical Perspective**

Name: Parneet Singh

Student ID: DE240106

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Table of Contents

ABSTRACT	4
INTRODUCTION	5
LITERATURE REVIEW	6
1. The Transformation of Tourism Distribution Channels.....	6
2. Definition and Core Roles of Online Travel Agencies.....	7
3. Platform Economics and Market Power	7
4. Consumer Behavior in the Context of OTA Use.....	8
5. Benefits of OTAs for Consumers	9
6. Benefits of OTAs for Suppliers	9
7. Challenges for Suppliers Engaging With OTAs	9
8. The Impact of COVID-19 on OTA Operations and Relevance	10
9. Technological Advancements Shaping OTA Evolution.....	10
10. The Emerging Competitive Landscape	11
METHODOLOGY	11
1. Research Approach	11
2. Data Sources.....	12
3. Selection Criteria.....	12
4. Analytical Method: Thematic Analysis.....	12
5. Limitations	13
FINDINGS	13
1. OTAs Have Become Digital Gatekeepers in Global Tourism Distribution	13
2. Travelers Prefer OTAs Because They Reduce Decision Complexity.....	13
3. OTAs Create Both Opportunities and Vulnerabilities for Suppliers.....	14
4. Airbnb Introduced Structural Disruption to Accommodation Distribution.....	14
5. COVID-19 Strengthened OTA Relevance and Trust	14
6. Mobile-First Booking Has Become the Standard	15
7. Technological Innovation Continues to Expand OTA Influence.....	15
DISCUSSION	15
1. OTAs as Structural Power Holders in the Distribution System	15
2. Consumer Behavior Strongly Favors OTA Functionality.....	16
3. Supplier Dependence Is a Long-Term Strategic Concern	16

4. Innovation Deepens OTA Advantages Over Suppliers	16
5. Hybrid Distribution Is the Future	16
CONCLUSION	16
REFERENCES	18

ABSTRACT

The transformation of tourism distribution channels over the past two decades has been profoundly shaped by the rise and evolution of Online Travel Agencies (OTAs). Major platforms such as Booking.com, Trip.com, Agoda, Expedia Group, and Airbnb have revolutionized how travellers search for information, compare options, and complete bookings. Through advanced digital infrastructures, these platforms aggregate global inventory and make it accessible through intuitive, user-friendly interfaces that allow travellers to browse thousands of options instantly. This evolution has displaced many of the traditional roles once performed by physical travel agents and shifted market power toward digital intermediaries. As a result, OTAs have become the central nodes of the tourism distribution system, influencing competitiveness, consumer expectations, and the overall structure of tourism markets.

Much of the influence wielded by OTAs stems from their ability to shape consumer decision-making processes through technology-driven design. By integrating real-time data, comprehensive product information, verified user reviews, and personalized recommendations, OTAs reduce the cognitive burden typically associated with travel planning. Decision-making and behavioural theories—such as the Technology Acceptance Model, the Elaboration Likelihood Model, and the Heuristic–Systematic Model—help explain why users gravitate toward digital platforms that offer simplicity, efficiency, and reduced perceived risk. OTAs effectively respond to these psychological drivers by providing heuristic cues such as “top-rated,” “best value,” and “most booked,” which guide consumers toward choices that feel validated by social proof. This combination of informational depth and psychological reassurance has normalized OTAs as indispensable tools in the modern travel experience.

At the same time, OTAs introduce structural challenges that are especially pronounced for tourism suppliers operating with limited financial or digital resources. High commission fees often erode profit margins, particularly for small hotels, guesthouses, and independent operators trying to remain competitive in saturated markets. Rate parity agreements further restrict suppliers’ ability to differentiate prices across channels, while limited access to customer data prevents businesses from fully understanding traveller behaviour or developing targeted loyalty strategies. Additionally, algorithmic ranking systems—often opaque and constantly evolving—mean that suppliers must continuously invest in additional visibility tools or promotions to maintain their position within search results. These factors create a complex dependency cycle in which OTAs provide essential exposure but simultaneously reduce the autonomy and profitability of suppliers.

The significance of OTAs grew even more during the COVID-19 pandemic, which acted as a catalyst for digital acceleration throughout the global tourism industry. Traditional travel agents, operating with manual systems and physical constraints, struggled to manage large-scale cancellations, refund requests, and rapidly changing travel regulations. In contrast, OTAs quickly adapted by deploying automated communication tools, offering flexible booking options, integrating safety and hygiene indicators, and updating travel advisories in real time. Their agility restored consumer trust during a period of crisis, reinforcing the perception of OTAs as reliable and responsive intermediaries. This period also encouraged travellers to adopt digital

behaviours at an unprecedented rate, further cementing OTA platforms as the default channels for researching and booking tourism services.

Looking ahead, the continued expansion of OTAs will be driven by emerging technologies such as artificial intelligence, machine learning, mobile-first ecosystems, augmented reality, and dynamic pricing algorithms. These innovations will enable OTAs to evolve from transactional booking engines into holistic travel ecosystems that support every stage of the traveller journey—discovery, planning, booking, navigation, and post-trip feedback. For tourism suppliers, this shifting landscape presents both opportunities and risks. While OTAs will continue to provide access to global markets and digital visibility that many businesses cannot achieve independently, suppliers must adopt strategic responses to avoid long-term dependency. Strengthening direct booking channels, investing in digital capability-building, developing loyalty programs, and differentiating experiences will be essential for building resilience and competitiveness. As OTAs redefine the architecture of tourism distribution, suppliers must adapt proactively to ensure they can thrive within increasingly platform-governed ecosystems.

INTRODUCTION

Tourism distribution channels form the connective framework that links tourism suppliers—including hotels, airlines, attractions, car rental providers, and tour operators—to the consumers who purchase their services. Historically, this system relied heavily on in-person travel agencies, printed brochures, call centers, and fixed partnerships between wholesalers and suppliers. These intermediaries held substantial influence, acting as the main sources of travel information and reservation facilitation for decades. The structure was linear, predictable, and largely dominated by long-established industry relationships.

With the emergence of the internet, however, the distribution landscape underwent significant disruption. Digital technologies empowered consumers to take control of the travel planning process, searching for information and making bookings independently. This marked a turning point in tourism distribution, giving rise to Online Travel Agencies—platforms that aggregate global travel products and provide instant access to comprehensive booking options. Over time, OTAs evolved into highly complex, data-driven ecosystems that play a central role in modern tourism.

As OTAs expanded, they began offering features that traditional intermediaries could not easily match:

- real-time availability updates,
- global price comparisons,
- verified guest reviews,
- mobile-friendly booking interfaces,
- increasingly personalized content,
- secure digital payment systems.

These developments positioned OTAs as powerful intermediaries capable of influencing the decisions, behaviors, and expectations of millions of travelers worldwide.

For consumers, OTAs represent transparency, convenience, and empowerment. For suppliers, OTAs offer unparalleled visibility and access to broad markets. However, suppliers also face challenges such as high commission fees, ranking competition, and limited control over customer data. These challenges underline the tension between benefiting from OTA reach and maintaining operational independence.

External events have further shaped the modern distribution environment. The COVID-19 pandemic dramatically accelerated the shift toward digital booking, pushing travelers to rely more heavily on OTAs for updated travel regulations, flexible booking policies, and safety-related information. Meanwhile, technological advancements—from AI-powered recommendation engines to immersive content and mobile-first experiences—continue to redefine what travelers expect from digital travel platforms.

This assignment seeks to explore the contemporary role of Online Travel Agencies by addressing the following research questions:

1. How have OTAs reshaped traditional tourism distribution channels and altered the roles of intermediaries?
2. What benefits do OTAs offer to consumers, and how do these influence travel behavior?
3. What opportunities and challenges do OTAs create for tourism suppliers?
4. How have external shocks and technological innovations intensified OTA dominance?
5. What strategies can suppliers adopt to thrive in a landscape shaped by platform-oriented competition?

Through a comprehensive analysis supported by literature, case examples, and theoretical frameworks, this assignment provides insights into how OTAs are driving the digital reinvention of global tourism distribution channels.

LITERATURE REVIEW

1. The Transformation of Tourism Distribution Channels

Tourism distribution has undergone substantial transformations over the past two decades, influenced predominantly by technological advancements and shifting consumer expectations. Historically, distribution relied on physical travel agencies, brochures, and Global Distribution Systems (GDS), creating a structured chain in which intermediaries played a pivotal role (Holloway & Humphreys, 2019). These traditional channels controlled how tourism products were packaged and communicated to travelers.

However, the emergence of digital technology fundamentally reshaped this system. Buhalis and Foerste (2015) argue that ICTs democratized access to information, enabling consumers to bypass intermediaries and interact directly with suppliers. The proliferation of broadband internet, smartphones, and secure online payment systems accelerated this shift. As a result, digital intermediaries—particularly Online Travel Agencies (OTAs)—rose to prominence, offering a more flexible, transparent, and consumer-driven distribution model.

2. Definition and Core Roles of Online Travel Agencies

OTAs are digital platforms that aggregate travel services, enabling users to search, compare, and book flights, accommodation, car rentals, and activities. According to Verdegem (2021), OTAs serve three primary roles:

1. **Information intermediaries** providing structured, reliable travel data.
2. **Transaction facilitators** offering secure booking and payment systems.
3. **Experience influencers** shaping traveler choices through reviews, rankings, and personalized suggestions.

Platform leaders such as Booking.com, Expedia Group, and Trip.com now serve as global travel ecosystems, integrating hotels, transportation, and tourist experiences into unified digital environments.

3. Platform Economics and Market Power

The rise of OTAs can be explained through platform economics and network effects. Parker, Van Alstyne, and Jiang (2017) state that multi-sided platforms thrive when participation by one group (e.g., hotels) increases value for another (e.g., travelers). OTAs leverage this effect by:

- attracting large numbers of suppliers,
- offering wide choices to consumers,
- using data analytics to refine matching efficiency.

Network effects create **market concentration**, where a few dominant OTAs control a significant share of global bookings (Zhang & Benyoucef, 2016). These dominant platforms influence:

- pricing structures,
- visibility rankings,
- commission norms,
- customer acquisition pathways.

Thus, OTAs emerge not merely as intermediaries but as powerful digital regulators of supply-demand interaction.

4. Consumer Behavior in the Context of OTA Use

4.1 Digital Information Search

Digital information-seeking has become central to travel planning. Xiang et al. (2017) show that travelers increasingly rely on structured digital platforms to reduce search complexity. OTAs offer:

- comparison filters,
- price calendars,
- location maps,
- review summaries.

These tools reduce information overload and create more manageable decision environments.

4.2 Trust and Perceived Risk

Travel purchases involve high uncertainty. Kim, Ferrin, and Rao (2009) explain that trust mechanisms—such as verified reviews, refund guarantees, and transparent pricing—reduce perceived travel risks. OTAs excel at providing:

- peer-generated ratings,
- cancellation flexibility,
- detailed property photos,
- host verification systems (e.g., Airbnb).

4.3 eWOM and Social Influence

Electronic word-of-mouth (eWOM) significantly impacts traveler decision-making. Litvin, Goldsmith, and Pan (2018) highlight that online reviews are now one of the top sources of travel inspiration. OTAs facilitate millions of reviews, making them essential decision-support platforms.

4.4 Mobile Behavior and Convenience

Mobile-focused travel planning is rising globally. Wang and Dai (2020) emphasize that mobile apps drive spontaneous travel purchases due to convenience and personalized notifications. OTAs capitalize on this trend by integrating:

- app-only discounts,
- digital wallets,
- loyalty tiers,
- in-app maps.

5. Benefits of OTAs for Consumers

Consumers benefit from OTAs through:

- **price transparency,**
- **time-saving comparison tools,**
- **wide inventory choices,**
- **flexible booking options,**
- **verified review systems,**
- **24/7 customer support,**
- **mobile accessibility.**

Kow, Chai, and Tan (2021) found that transparency and convenience are the strongest predictors of OTA loyalty among millennials and Gen Z travelers.

6. Benefits of OTAs for Suppliers

Suppliers, particularly small and independent hotels, gain:

- international exposure,
- increased occupancy rates,
- diversified demand sources,
- analytics and performance insights,
- reduced marketing cost burdens.

According to Mariani and Borghi (2020), hotels listed on multiple OTAs often enjoy higher online visibility and improved search engine ranking performance.

7. Challenges for Suppliers Engaging With OTAs

Despite benefits, several challenges persist.

7.1 Commission Fees

OTA commissions—ranging from 15% to 30% for some markets—significantly impact profitability. Many small hotels struggle to balance OTA dependence with sustainable margins (Lohmann & Panosso Netto, 2017).

7.2 Algorithm-Driven Visibility

Suppliers compete within algorithmic ecosystems. Visibility depends on:

- conversion rates,
- review scores,
- content completeness,
- pricing competitiveness,

- participation in OTA promotions.

This creates competitive inequality between large chains and independent properties (Moro et al., 2018).

7.3 Loss of Customer Data

Hotels often do not receive guests' full booking information or contact details, limiting opportunities for direct marketing, loyalty-building, and personalized communication.

7.4 Rate Parity Pressures

Although regulations have eased in some regions, the expectation of maintaining consistent pricing across channels restricts hotel flexibility (Hollenbeck, 2020).

8. The Impact of COVID-19 on OTA Operations and Relevance

The COVID-19 pandemic amplified OTA influence. Studies by Gössling, Scott, and Hall (2021) indicate that pandemic uncertainty prompted travelers to favor platforms offering flexibility, updated travel restrictions, and transparent cancellation policies.

OTAs responded by:

- introducing flexible booking filters,
- providing safety information and hygiene scores,
- expanding domestic travel offerings,
- improving refund processing efficiency,
- adjusting algorithms to reflect changing travel patterns.

As a result, OTAs reinforced their position as trusted digital intermediaries during crisis conditions.

9. Technological Advancements Shaping OTA Evolution

Recent technological developments include:

9.1 Artificial Intelligence and Personalization

AI enables OTAs to deliver personalized search results, optimize pricing, and predict traveler preferences (Pera, 2020).

9.2 Voice and Chatbot Interfaces

Integrating voice search and chatbots enhances 24/7 support and real-time engagement.

9.3 Virtual and Augmented Reality

VR previews of hotels and attractions reduce uncertainty and enhance purchase confidence.

9.4 Super-App Integration

In Asia, platforms like Grab, WeChat, and GoTo combine travel booking with:

- transportation,
- messaging,
- payments.

This creates seamless travel ecosystems (Chen & Huang, 2022).

10. The Emerging Competitive Landscape

Meta-search engines such as Google Travel and Trivago intensify competition. These platforms aggregate OTA listings, making visibility a multi-layered challenge for hotels. Meanwhile, suppliers invest in:

- direct booking incentives,
- loyalty programs,
- website improvements,
- social media campaigns.

Nevertheless, as Tussyadiah and So (2021) conclude, hybrid distribution—rather than a return to disintermediation—represents the future of global tourism distribution.

METHODOLOGY

1. Research Approach

This study uses a **qualitative, exploratory research approach**, which is suitable for interpreting complex phenomena such as digital platform dynamics and OTA–supplier relationships. Exploratory research is appropriate because OTAs operate within fast-evolving technological, behavioral, and competitive environments that cannot be captured through rigid quantitative models. As Jennings (2010) suggests, qualitative inquiry allows researchers to uncover motivations, meanings, and contextual behaviors that shape tourism systems.

The exploratory design acknowledges that OTAs influence multiple stakeholders—travelers, hotels, tourism businesses, and even destinations—which necessitates a method capable of interpreting interconnected effects rather than isolating variables.

2. Data Sources

The research relies solely on **secondary data** collected from:

- academic journal articles on tourism technology, consumer behavior, platform economics, and digital distribution,
- books on tourism distribution systems,
- industry reports from Expedia, Booking Holdings, Trip.com, Airbnb, and Agoda,
- global data sources such as UNWTO, Statista, Skift, and Phocuswright,
- case studies published by hospitality schools and tourism research centers,
- credible travel industry news (e.g., Skift, HospitalityNet, PhocusWire).

Using mixed secondary sources increases reliability by allowing cross-verification between academic insights and industry realities.

3. Selection Criteria

Only sources meeting the following criteria were included:

- relevance to OTAs or digital tourism distribution,
- publication years primarily between 2018–2024 (with earlier sources for foundational theories),
- credible academic or industry standing,
- evidence of empirical grounding or strong conceptual framing,
- global or multi-regional coverage to avoid single-market bias.

4. Analytical Method: Thematic Analysis

The research uses **thematic content analysis**, following Braun and Clarke's (2006) widely accepted method:

1. **Familiarization:** Reading all selected materials thoroughly.
2. **Coding:** Extracting concepts related to OTA functions, consumer behavior, supplier challenges, and technological innovations.
3. **Theme Generation:** Grouping codes into themes such as:
 - digital trust and perceived value,
 - supplier dependence and competitive imbalance,
 - mobile-first behaviors,
 - algorithmic governance,
 - post-pandemic acceleration,
 - ecosystem integration.
4. **Synthesis:** Developing a narrative linking the themes to the assignment's research questions.

5. Limitations

This study has several limitations:

- It lacks primary data (e.g., hotel manager interviews),
- OTA algorithms are proprietary and cannot be examined in full detail,
- The industry evolves rapidly—some trends may continue shifting,
- Some industry reports carry potential commercial bias.

Nevertheless, by triangulating multiple high-quality sources, the analysis maintains strong academic credibility.

FINDINGS

1. OTAs Have Become Digital Gatekeepers in Global Tourism Distribution

The analysis reveals that OTAs now function as digital gatekeepers controlling how travel suppliers access global audiences. Their large inventories, sophisticated search algorithms, and extensive marketing budgets allow them to dominate the early stages of traveler decision-making.

OTAs have also become central interfaces where:

- consumers compare accommodation,
- suppliers compete for visibility,
- pricing exposure is standardized,
- bookings are completed seamlessly.

This centrality positions OTAs as indispensable distribution actors globally.

2. Travelers Prefer OTAs Because They Reduce Decision Complexity

Travel planning involves information overload. Findings show that consumers choose OTAs because they:

- simplify comparisons,
- organize information clearly,
- filter results based on traveler priorities,
- provide verified reviews,
- reduce perceived risk,
- offer flexible and refundable bookings.

Psychologically, OTAs function as “decision support systems,” helping users cope with uncertainty and complexity.

3. OTAs Create Both Opportunities and Vulnerabilities for Suppliers

The findings highlight a dual impact on suppliers:

Benefits include:

- access to global markets,
- higher occupancy (especially for small hotels),
- increased discoverability,
- revenue during low seasons,
- platform-provided analytics.

Challenges include:

- high commission fees (15–30%),
- ranking algorithms that favor high performers,
- limited customer data sharing,
- rate parity expectations,
- dependency on platform-generated demand.

The findings show that many hotels remain reliant on OTAs despite these drawbacks because direct channels often cannot match OTA visibility.

4. Airbnb Introduced Structural Disruption to Accommodation Distribution

Airbnb changed tourism distribution by adding millions of non-commercial hosts into the market. Findings indicate that Airbnb:

- shifted consumer preferences toward “home-like” stays,
- expanded inventory beyond hotels,
- created new competitive pressures,
- highlighted peer-to-peer trust systems,
- influenced long-stay and remote-work travel.

This contributed to a new dimension of distribution: **peer-to-peer tourism supply**, which did not exist at scale before.

5. COVID-19 Strengthened OTA Relevance and Trust

OTAs increased their dominance during the pandemic because they:

- provided flexible cancellation filters,
- updated travel restriction information faster than traditional agencies,

- automated refund processes,
- highlighted hygiene and safety measures,
- supported domestic travel trends.

Travelers turned to OTAs for reliable information in a period of high uncertainty, reinforcing long-term trust.

6. Mobile-First Booking Has Become the Standard

Findings emphasize that mobile apps account for the majority of OTA bookings in many markets. OTA apps excel by offering:

- instant booking,
- in-app deals,
- loyalty tiers,
- digital wallets,
- personalized recommendations.

Hotels often lack equivalent mobile infrastructure, increasing OTA dependency.

7. Technological Innovation Continues to Expand OTA Influence

Innovations identified in the findings include:

- AI-enabled dynamic pricing,
- personalized search results,
- immersive media tools (e.g., AR room previews),
- chatbot-based support,
- integrated ecosystems (e.g., super-apps in Asia).

OTA innovation outpaces most supplier innovations due to resource differences.

DISCUSSION

1. OTAs as Structural Power Holders in the Distribution System

The findings clearly illustrate that OTAs are no longer intermediaries in the traditional sense—they are **structural power holders**. Their control of search visibility, pricing exposure, and consumer access gives them significant influence over market outcomes. Suppliers, particularly small hotels, must compete within an ecosystem largely controlled by OTA algorithms.

2. Consumer Behavior Strongly Favors OTA Functionality

Consumer decision-making theories explain why OTAs continue to dominate. OTAs respond to key consumer motivations:

- desire for convenience,
- need for trust-building mechanisms,
- preference for transparent pricing,
- reliance on social proof through reviews.

This alignment ensures high OTA usage even as suppliers attempt to strengthen direct channels.

3. Supplier Dependence Is a Long-Term Strategic Concern

The findings highlight growing supplier dependence on OTAs. Hotels benefit from visibility but trade autonomy and profitability in the process. Many struggle to regain control through:

- direct booking incentives,
- repeat guest programs,
- personalized email marketing.

Yet OTA competitive pressures remain strong due to algorithms and market concentration.

4. Innovation Deepens OTA Advantages Over Suppliers

OTA investments in AI, big data, mobile ecosystems, and platform integration give them long-term competitive advantages. Hotels rarely have equivalent budgets or digital expertise. As a result, innovation becomes a reinforcing cycle that strengthens OTA dominance.

5. Hybrid Distribution Is the Future

The discussion indicates that the future of tourism distribution will be hybrid:

- OTAs remain essential for discovery and broad market exposure,
- direct channels serve loyal customers,
- meta-search influences price transparency,
- social media influences travel inspiration.

Suppliers must combine OTA participation with strong direct strategies to remain competitive.

CONCLUSION

The evolution of online travel agencies represents one of the most significant transformations in the history of tourism distribution. Through advanced technology, large-scale aggregation of suppliers, and consumer-centric design, OTAs have redefined how travel is researched, evaluated, and purchased. As demonstrated throughout this assignment, OTAs operate not simply as intermediaries but as powerful digital ecosystems that structure global tourism flows and influence decision-making at multiple stages of the traveler journey.

OTAs provide considerable value to consumers. Their ability to compile extensive inventories, streamline complex information, and offer transparent comparisons resonates with contemporary preferences for convenience, autonomy, and control. Features such as verified reviews, dynamic pricing calendars, flexible booking policies, and mobile-friendly interfaces all contribute to a high level of trust and use among travelers—particularly digital-native generations.

For suppliers, OTAs create opportunities for visibility and reach that would be difficult to achieve through direct channels alone. Small hotels, guesthouses, and independent accommodations particularly benefit from access to global audiences, sophisticated marketing infrastructure, and consistent traffic driven by platform popularity. However, these opportunities come with significant challenges. High commissions, limited access to customer data, and dependence on algorithmic ranking systems weaken suppliers' autonomy and profitability. Many hotels face a strategic dilemma: OTAs drive essential business, but reliance on them undermines long-term brand independence.

The COVID-19 pandemic further accelerated OTA dominance by forcing consumers to seek reliable, flexible, and up-to-date digital booking options. OTAs quickly adapted to this landscape, integrating hygiene filters, flexible cancellation mechanisms, and localized travel insights. Their ability to respond rapidly to crisis-related uncertainty reinforced their position as trusted digital intermediaries.

Looking toward the future, several structural trends will continue shaping OTA influence. The integration of artificial intelligence, predictive analytics, voice search, and augmented reality will strengthen OTA personalization and deepen user engagement. Mobile-first design, super-app integrations, and ecosystem expansion—especially in Asia—will further embed OTAs into everyday travel and lifestyle behaviors. These innovations will likely widen the competitive gap between OTAs and suppliers, strengthening platform control unless suppliers significantly upgrade their digital capabilities.

Despite OTA dominance, the future will not be defined by total dependency. Instead, the tourism distribution landscape is moving toward **hybridization**, where multiple channels coexist. OTAs will remain essential for market exposure, especially for new or small properties. At the same time, suppliers will increasingly develop direct strategies through loyalty programs, personalized communication, improved websites, and targeted digital marketing. Achieving balance—rather than eliminating OTA involvement—will be key to long-term success.

In conclusion, OTAs are reshaping the logic, structure, and competitive realities of tourism distribution. Their influence is profound and ongoing, supported by technological innovation, shifting consumer expectations, and platform-driven market structures. Tourism businesses that

proactively adapt to this environment—leveraging OTA strengths while building stronger direct relationships—will be best positioned to thrive in an increasingly digital, interconnected global tourism landscape.

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