Digital Transformation in Cluster Management: A Study on the Hotel Industry

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Abstract: This article explores the role of digital transformation and data analytics in cluster management within the hotel industry. It discusses the benefits of these technologies, including improved operational efficiency, personalized guest experiences, and enhanced decision-making capabilities. In the hotel industry, digital transformation focuses on leveraging technology solutions to optimize the coordination and management of multiple hotels within a cluster. The article also highlights the use of AI and Machine Learning in optimizing hotel operations and the potential future advancements in this field.

Keywords: Artificial Intelligence, Cluster Management, Data Analytics, Digital Transformation, Hotel Industry, Machine Learning, Mobile Experiences, Predictive Analytics.

1. Introduction

In general, a cluster is "provision for a single point of control for management of similar brands, properties and/or functions within a given geographic area." (R.A.Nykiel and J.C.Makens, 2005)

Clustering is a very popular segmentation technique for market research. By doing a cluster analysis you can group your customers into categories such as their needs, wants, characteristics and such. With this you can see how clients belong in different clusters and also how they differ to one another (Rowe, 2017).

Clusters are geographic concentrations of interconnected companies and institutions in a field, linked by commonalities and complementarities; (Porter’s definition)

Clustering not only measures behavioral characteristics but also spending characteristics. With this Clients can additionally be clustered into high spenders and low spenders which is also a part of the Customer lifestyle cycle which is based on the return revenue gained from each client. By doing so it additionally allows you to identify who your most profitable customers are and therefore you can focus on one type of spender by providing a service that will satisfy their needs and wants (Devault, 2018).

While the specifics of cluster formation may vary between hotel chains and depend on internal strategy and goals, common considerations often include:

- **Geographic Location:** Hotels in the same city or region can be grouped into a cluster. This allows for the efficient sharing of resources and local market insights, and helps ensure a consistent guest experience across properties in the same area.

- **Brand: Brand Consistency:** A key role of cluster management is ensuring brand consistency across all properties. This can involve standardized training programs, operational procedures, and quality checks. Hotel chains like Big hotel groups operate multiple brands targeted at different market segments. Each brand may have its own distinct operational standards, marketing strategies, and guest expectations. Therefore, properties under the same brand might be managed as a cluster to maintain brand consistency.

- **Target Market:** Hotels catering to the same type of clientele, such as business travelers, families, or luxury vacationers, can be grouped together. This allows the hotel chain to tailor its management strategies and guest services to the specific needs and preferences of these customer segments.

- **Marketing and Sales:** With cluster management, a hotel group can consolidate its sales and marketing efforts. Instead of each hotel operating independently, a central team can manage these functions for all hotels in the cluster.

- **Property Type:** Hotels may also be clustered based on property type. For example, full-service hotels, limited-service hotels, long-stay hotels, or boutique hotels may each form separate clusters due to their unique operational requirements and guest services.

- **Revenue Management:** Hotels with similar revenue patterns or booking channels might be clustered together to implement consistent pricing strategies and optimize revenue. Revenue management is a key component of hotel operations, and it can be more effectively performed when taking into consideration the performance of a cluster of hotels rather than individual properties. Understanding demand patterns, setting optimal pricing strategies, and managing inventory across a portfolio of hotels can result in increased revenue and profitability.

- **Strategic Partnerships or Alliances:** Sometimes, hotels form clusters based on their strategic relationships with airlines, corporate clients, or other partners. These clusters can work together to leverage these partnerships and attract more guests. Cluster management in hotel operations involves overseeing multiple properties under the same brand or within the same geographical area. This can be especially common with larger hotel chains. The idea is to centralize some functions to increase efficiency and effectiveness. Here are some of the key components and considerations in cluster management:

- **Shared Resources:** Cluster management often includes sharing resources across properties. This can include
management personnel, maintenance teams, sales and marketing efforts, and even food and beverage procurement. By pooling resources, hotels can realize cost savings and efficiencies.

- **Centralized Reporting and Analysis:** With multiple properties under one umbrella, cluster management can provide centralized reporting and analysis. This allows for better strategic decision-making and the ability to quickly respond to trends or issues across properties.

- **Economies of Scale:** Cluster management can achieve economies of scale in purchasing, labor, and other operational areas. This can lead to significant cost savings.

- **Talent Management:** With cluster management, talent can be shared and moved around the different properties. This not only helps with personnel shortage in one property, but also helps in the growth and development of the employees as they gain experience across different properties and challenges.

- **Standardization and Best Practice Sharing:** Cluster management also helps in standardizing processes and sharing best practices across properties. This not only ensures consistency in service delivery but also improves overall operational efficiency.

In a nutshell, cluster management involves a more holistic approach to managing a group of hotels, with a focus on optimization and efficiency while maintaining consistency in brand and customer experience.

2. **Review of Literature**

1) Clustering benefits for upscale urban hotels (2017) Urtasun, Ainhoa, Gutierrez Calderon, Maria Isabel: The aim of this study is twofold. First, clustering patterns of urban hotels are explored, and, second, clustering effects on performance for upscale urban hotels are estimated. Design/methodology/approach - Local indicators of spatial association (LISA) were computed using geographic information system (GIS) techniques. The Findings are ‘Two significantly distinct types of clusters are identified: dense “cold spots” or clusters containing many low-priced hotels and quiet “hot spots” or clusters only containing a few high-priced hotels. And, estimates confirmed two important results: evidence of adverse selection when clustering and evidence of positive location economies for upscale hotels.

2) COVID-19, The catalyst for digital transformation in the hospitality industry (2021) by Nuno Antonio and Paulo Rita: The study indicates how the COVID-19 paves the way for rapid digitalization in hotel industry. COVID-19 physical distancing good practices and governments’ restrictions acted as catalysts and promoted hotel digitalization. A questioner was administered on 51 hotel managers in portuguese to find out if the digitalization has happened due to covid-19 and what processes are impacted. The results showed that 92 % agreed that covid-19 promoted the digitalization process. The online meetings and technology tools to stay and digitalization has potential to generate high efficiency gains both in front office and back office operations.

3) Digital Transformation of Hospitality Businesses and Workplaces - A Way Forward to Good Governance and Sustainable Development(2022) Saurabh Bharti at; el: This study aims at how digital transformation effects the governance and sustainability in hospitality industry. They used secondary sources to evaluate and find the results. The results show that digital transformation. The study resulted that using analytics as digital technology help in increasing customer experience. Many firms realize the advantages of digital transformation in the hotel sector by increasing brand recognition and operational efficiency, and by enhancing customer experience.

4) Economic Competitiveness: Effects of Clustering, Innovation Strategy and the Moderating Role of Location in the Colombian Hotel Industry (2017) by Orietha E. Rodriguez-Victoria at; el :In this empirical study of 131 hotels located nationwide in the emerging destination of Colombia, The study found that a negative moderated mediation effect. The impact on competitiveness is higher when the location holds low levels of resources. The study uncovered and discuss one of the reasons for explaining the heterogeneous impact of clustering on service firms.

5) The Relevance of the Strategic Management of the Hotel Cluster Based on a Balanced Scorecard (2021) by Nataliia Tkachova at; el: This study explored creating the hotel clusters based on Balanced score card as a strategic management approach. The findings reveal that it is advisable to use a synergistic approach and a balanced scorecard (BSC) as a tool to optimize the activities of the hotels in the cluster. According to them BSC is an analytical and as a strategic management system to translate the mission and strategy as mode of hotel cluster for efficient use and capacity building of the hotel cluster. This makes it possible not only to identify the strengths and weaknesses of the integration, but also show tolerance and resistance to changes in the external and internal environment, as well as identify ways to achieve the goals of hotel development.

6) The Rise of Cluster Revenue Management: Six Key Questions for Hoteliers to Ask (2021) by Mohamed Khanat: He explained that several trends have risen that may be here to stay, for better or for worse. One standout trend is consolidation. As hotels strive to do more with less, more responsibilities are being consolidated under fewer roles. He further explained properties are typically clustered by region or brand. It’s easier to manage a group of small, limited-service hotels within the same brand and region than a group of full-service properties scattered across brands and regions. With the right work and tools the cluster revenue manager can well managed all the hotels as effectively as single property revenue manager.

3. **Methodology**

The study employs a comprehensive literature review and discussion method to explore the role of digital transformation and data analytics in cluster management within the hotel industry.
Digital transformation and cluster management.

- With the advent of digital transformation, the concept of cluster management in the hotel industry has evolved significantly. Digital transformation entails the integration of digital technology into all areas of business, fundamentally changing operations and the delivery of value to customers. For the hotel industry, this transformation has improved and streamlined several aspects of cluster management:

  - **Centralized Management**: Digital transformation enables centralized management of multiple hotels in a cluster, regardless of geographical location. Through cloud-based Property Management Systems (PMS), a hotel chain can oversee operations, manage reservations, coordinate staffing, and handle financial reporting across multiple properties from a single point.

  - **Unified Management Systems**: Digital technology facilitates the centralization of data from multiple hotels in a single platform. Hotel management systems, customer relationship management systems, and other digital platforms allow for real-time monitoring and management of resources, bookings, revenue, and other crucial aspects across all hotels in a cluster.

  - **Data Analysis and Predictive Analytics**: With digital transformation, hotels are increasingly leveraging data analysis tools to optimize their operations and strategies. By studying past trends and forecasting future patterns, hotels can make data-driven decisions that enhance customer satisfaction and increase revenue.

  - **Data Analytics**: Big data and analytics are playing a critical role in cluster management. Hotels can collect and analyze data from all their properties to gain insights into customer behavior, market trends, and operational performance. This can inform decision-making, from pricing strategies to marketing campaigns. Improved Data Analysis and Reporting: By digitizing operational data and using advanced data analytics tools, hotels can gain detailed insights into their performance in real-time. This assists in making data-driven decisions, forecasting trends, optimizing pricing strategies, and improving services across the cluster.

  - **Artificial Intelligence (AI) and Machine Learning (ML)**: AI and ML are being used to automate processes, personalize customer experiences, and make predictions. For example, AI can automate customer service via chatbots, personalize recommendations based on customer data, and predict demand to optimize pricing and inventory.

  - **Internet of Things (IoT)**: IoT technology is being used to enhance customer service and operational efficiency. For example, smart devices can automate room settings based on guest preferences, monitor equipment for maintenance needs, and improve energy efficiency.

  - **Cloud Computing**: Cloud-based platforms are being used to manage hotel clusters, providing scalability, cost-efficiency, and accessibility from anywhere. They also facilitate the integration of various systems, from reservation and property management systems to customer relationship management (CRM) and marketing platforms.

  - **Cyber security**: As hotel clusters become more digitally connected, cyber security becomes increasingly important. Hotels need to protect customer data and ensure the integrity of their systems. This involves the use of secure cloud platforms, encryption, and other security measures.

  - **Contactless Experiences**: In response to the COVID-19 pandemic, hotels are leveraging digital technology to provide contactless guest experiences. This includes mobile check-in and check-out, digital keycards, and virtual concierge services.

  - **Automated Processes**: With digital transformation, many mundane tasks can be automated, freeing up staff to focus on delivering excellent guest experiences. For instance, AI-driven chatbots can handle common guest inquiries and booking processes and smart devices can automate room controls and requests for services.

  - **Personalized Guest Experience**: By leveraging digital technologies, hotels can gather and analyze vast amounts of data about guests’ preferences, enabling more personalized experiences. For example, through customer relationship management (CRM) systems, guest preferences can be shared across a hotel cluster to ensure consistent and personalized service wherever the guest travels.

  - **Seamless Communication**: Digital platforms facilitate seamless communication both internally (among staff, between different departments and hotels) and externally (with guests). This improves operational efficiency and guest satisfaction across all hotels in a cluster.

  - **Integration with Third-party Services**: Digital transformation enables easier integration with third-party services, such as online travel agencies (OTAs), review platforms, social media channels, etc., helping hotels in a cluster to expand their reach and maintain their online reputation.

  - **Mobile Technology**: Mobile apps can provide a range of services, from enabling guests to check-in and out using their smartphones, controlling in-room devices, to making reservations for hotel amenities. These apps can be standardized across a hotel cluster, providing a unified and modern guest experience.

  By enhancing cluster management with digital transformation, hotel chains can improve operational efficiency, guest experiences, and business outcomes across all their properties.

### AI and ML in cluster management

- **Advanced AI and Machine Learning**: As AI and ML technologies continue to evolve; they will play an even larger role in cluster management. This could include advanced predictive analytics for more accurate forecasting and optimization, sophisticated AI chatbots for personalized experiences. ChatGPT can be utilized as a chatbot or virtual assistant to handle customer inquiries; The ChatGpt can be integrated with Hotel’s PMS and it can process and analyze large volumes of data generated by hotels within the cluster and it can identify patterns, trends, and correlations in guest preferences, behavior, and feedback.

- **Integration of Block chain**: Block chain technology could be used to improve transparency and security in hotel operations. For instance, it could be used for secure,
Data Analytics and Cluster Management

Data analytics plays a critical role in cluster management of hotels by enabling decision-makers to understand patterns, predict trends, optimize operations, and enhance customer satisfaction. Here are some ways data analytics is utilized:

- **Customer Insights:** Data analytics can be used to understand customer behavior, preferences, and trends. This information can help in tailoring services and promotions to different customer segments, improving customer satisfaction and loyalty, and attracting new customers.

- **Operational Efficiency:** Analyzing data related to hotel operations can help identify inefficiencies and areas for improvement. For example, energy usage data can be analyzed to identify opportunities for reducing energy costs. Similarly, data on staff performance can be used to improve service delivery and staff scheduling.

- **Pricing and Revenue Management:** Data analytics is essential for dynamic pricing strategies. By analyzing data on factors like booking patterns, room availability, and competitor pricing, hotels can optimize their pricing strategies to maximize revenue.

- **Demand Forecasting:** Predictive analytics, a subset of data analytics, can help hotels forecast demand for different times of the year, helping them to plan and manage room inventory, staffing needs, and other resources more effectively.

Marketing and Sales: Data analytics can help hotels understand the effectiveness of their marketing and sales campaigns, allowing them to refine their strategies and focus their efforts on the most successful channels and tactics.

Risk Management: Data analytics can help identify and mitigate risks. For instance, analyzing customer feedback data can help hotels identify potential issues with their services and take corrective action before these issues escalate.

Competitor Analysis: By analyzing publicly available data, hotels can gain insights into their competitors' strategies, allowing them to position themselves more effectively in the market.

Performance Tracking: Hotels can use data analytics to track their performance against key metrics and benchmarks, helping them to identify areas where they are doing well and areas where improvement is needed.

Real-Time Analytics: With the development of technologies that support real-time data analysis, hotels are now able to react more promptly to changing conditions. For instance, they can adjust pricing in response to fluctuations in demand or occupancy, or they can address service issues as soon as they arise, based on real-time feedback.

Big Data and AI: The increasing volume and variety of data available to hotels—from customer behavior data to online reviews to social media data—can be overwhelming. However, with the right tools and expertise, hotels can leverage this "big data" to gain deeper insights and make more accurate predictions. Artificial Intelligence (AI) and machine learning algorithms can be used to analyze these large and complex datasets.

Data Integration: For data analytics to be most effective, it's important to integrate data from various sources. This could include data from the hotel's own systems (such as booking and reservation systems, property management systems, and customer relationship management systems), as well as external data sources (like online travel agencies, social media platforms, and review sites).

Data Governance and Privacy: As hotels collect and analyze more data, it's essential to have strong data governance policies in place to ensure data accuracy, consistency, and security. In addition, hotels must comply with data privacy regulations and respect customers' privacy rights.

Skills and Capabilities: To fully leverage the potential of data analytics, hotels need staff with the right skills and capabilities. This could involve training existing staff, hiring new staff, or partnering with external providers.

In conclusion, data analytics has a significant role to play in the effective management of hotel clusters, but it requires a strategic approach, investment in the right tools and capabilities, and a commitment to data quality and privacy.
Predictive Analytics and cluster management

Predictive analytics can significantly affect the cluster management of the hotel industry in various ways, providing opportunities for improved efficiency, profitability, and customer satisfaction. The Hotel softwares such as ERPs and other PMS and HMS can be adaptable to exploit the data from the hotels in the cluster and prepare the required analytics with support of the algorithms and give the results to cluster managers to take appropriate steps to improve and efficiently handle to maximize the benefits.

Revenue Management: Predictive analytics can forecast demand more accurately, enabling dynamic pricing strategies that maximize revenue. This is especially valuable in cluster management, where even small improvements in price optimization can have a significant impact across multiple properties.

Inventory Management: Predictive analytics can also forecast the usage of amenities and services. This can optimize inventory management, reducing waste and ensuring that amenities and services are available when guests need them.

Personalized Experiences: By analyzing past data on guest behavior and preferences, predictive analytics can help hotels personalize their offerings. This can improve guest satisfaction and loyalty, which is particularly important in cluster management where the goal is to encourage guests to stay at different properties within the same group.

Operational Efficiency: Predictive analytics can help identify patterns in operations data, enabling hotels to streamline their processes. This can reduce costs and improve service, which is particularly valuable when managing multiple properties.

Strategic Planning: Predictive analytics can provide valuable insights for strategic planning. For instance, it can help identify growth opportunities, assess the potential impact of new initiatives, and more.

Marketing and Promotions: Predictive analytics can help optimize marketing and promotions by identifying which offers are likely to resonate with which guests. This can increase the effectiveness of marketing spend, driving higher occupancy and revenue.

Risk Management: Predictive analytics can help identify potential risks before they become major issues. This can be particularly valuable in cluster management, where problems at one property can potentially impact others.

In summary, predictive analytics can provide a wealth of insights and opportunities for hotels. However, it's important to remember that successful use of predictive analytics requires a robust data infrastructure, skilled personnel, and a culture that values and acts on data-driven insights.

Mobile Experiences

As technology evolves and guests increasingly use smartphones in their daily lives, the hotel industry must adapt to enhance mobile experiences. This is particularly important in cluster management, where a consistent and high-quality mobile experience can have a significant impact on guest satisfaction across multiple properties. Here are some ways mobile experiences could be enhanced:

Mobile Check-In and Check-Out: Guests can bypass the front desk, check-in on their way to the hotel, and go straight to their room using a mobile room key. Similarly, check-out can be completed on the guest's mobile device.

Mobile Room Keys: Using secure Bluetooth technology, guests' smartphones can be used as room keys. This offers a convenient alternative to traditional key cards.

Personalized Notifications: Hotels can send personalized notifications to guests’ smartphones, offering recommendations for activities or dining, or providing useful information about their stay.

Mobile Concierge Services: A mobile app can offer concierge services, allowing guests to book reservations, request room service, schedule wake-up calls, and more.

Augmented Reality (AR) Tours: Hotels could use AR technology to provide interactive tours of the property or local attractions, accessible via guests' smartphones.

Real-time Feedback and Communication: Mobile apps can facilitate real-time feedback and communication between guests and hotel staff. This can improve guest satisfaction by allowing issues to be resolved quickly.

Loyalty Programs: Mobile apps can make it easier for guests to track and redeem points in a hotel's loyalty program. This can encourage repeat bookings across different properties within the same brand or group.

Contactless Payments: Mobile payment options offer a fast, secure, and convenient way for guests to pay for room charges, dining, and other services.

To implement these mobile experiences effectively, hotels will need to ensure that their digital infrastructure is robust and secure. They will also need to train staff to use these technologies effectively, and market these features to guests so they are aware of the benefits. If done right, enhancing mobile experiences can offer significant benefits for both guests and hotels.

In addition to the mobile enhancements previously discussed, there are also other trends and strategies in cluster management of hotels that revolve around mobile technology:

Seamless Connectivity Across Devices: Guests often use multiple devices during their stay. Ensuring seamless connectivity across these devices can greatly enhance the guest experience. For instance, guests might want to switch from their smartphone to the hotel's tablet or smart TV without losing their place in a movie or a game.

Room Customization: Mobile apps can allow guests to control various aspects of their room such as lighting,
temperature, entertainment system, and even curtains or blinds. This level of control can make a guest’s stay much more comfortable and personalized.

**Local Experiences:** Hotels can use mobile technology to connect guests with local experiences. This might include recommendations for local restaurants or attractions, or even partnering with local businesses to offer discounts to guests. Improved Operational Efficiency: Mobile technology can also enhance operational efficiency within the hotel. For instance, housekeeping staff can use mobile devices to update room status in real time, which can streamline operations and reduce waiting times for guests.

**Data Collection and Analysis:** Mobile technology can provide valuable data on guest behavior and preferences, which can be used to improve service and personalize offers. However, it’s important for hotels to manage this data responsibly and ensure guests’ privacy.

**Sustainability:** Mobile technology can support a hotel’s sustainability efforts. For example, digital receipts or invoices can reduce paper waste, and smart room controls can optimize energy use. As mobile technology continues to evolve, it offers great potential for enhancing both the guest experience and operational efficiency within the hotel industry.

**Customer relationship in cluster management**

**Data Management:** Effective customer relations require comprehensive, accurate, and up-to-date customer data. In a hotel cluster, it’s important to have systems in place that enable data sharing across properties, while also respecting privacy regulations. This ensures that each hotel can provide personalized service, regardless of whether it’s the guest’s first visit to that specific property or to the brand.

**Standardized Training:** To provide consistent service across multiple properties, it’s important to have standardized training programs in place. This ensures that all staff understand the brand’s customer service standards and can deliver on these, no matter which hotel they work at.

**Guest Recognition Programs:** These are crucial for fostering customer loyalty and encouraging repeat bookings across the hotel cluster. Recognition programs might offer benefits like priority check-in, room upgrades, or discounts on services, providing incentives for guests to stay at hotels within the same cluster.

**Tailoring Experiences:** Using customer data, hotels can tailor experiences not only to individual guests but also to distinct customer segments. This can help to meet a broader range of guest expectations, attracting a more diverse clientele to the hotels within the cluster.

**Recovery Strategies:** No matter how high the service standards, there will be times when things go wrong. Having effective recovery strategies in place can turn a negative situation into an opportunity to impress the guest with the hotel’s response. In a hotel cluster, these strategies can be shared to ensure that all properties are equipped to handle issues effectively.

**Multichannel Engagement:** Engaging with customers across various channels (website, email, social media, in-person, etc.) can improve customer relations. Multichannel engagement can provide multiple touch points for interacting with the guest, gathering feedback, and providing information, thereby enhancing the overall customer experience.

**Adapting to Evolving Expectations:** Customer expectations are constantly changing, and hotels need to adapt to meet these. In a hotel cluster, strategies for meeting evolving customer expectations can be developed at the brand level and then implemented across all properties.

Remember, building strong customer relations is not a one-time effort but requires ongoing commitment and adaptation. As the hotel industry continues to evolve, those that can most effectively manage their customer relations are likely to be the most successful.

**Strategies for cluster management**

In the context of cluster management in hotel operations, it’s important to understand that the complexity and responsibility can be vast. To navigate this successfully, there are a number of strategies and best practices that can be used:

- **Effective Communication:** Ensuring clear and open lines of communication across all levels of the organization is crucial. This includes regular meetings with hotel managers, providing clear expectations, and ensuring that any issues are addressed promptly.
- **Invest in Technology:** The use of advanced hotel management systems can streamline operations, improve efficiency, and provide valuable insights. These systems can help in reservation management, guest service optimization, data analysis, and more. Moreover, with properties being in different locations, cloud-based systems can ensure seamless information flow and real-time data access.
- **Training and Development:** Continuous training and development programs should be in place for staff across all hotels. This will help maintain service standards, improve employee morale, and ensure a consistent guest experience.
- **Strong Leadership:** Strong leadership is key in successful cluster management. The leadership needs to be able to manage multiple teams, be solution-oriented, and be able to make informed decisions.
- **Performance Metrics:** It’s important to have clear and measurable performance metrics in place for each property. Regular reviews of these metrics can help identify areas for improvement, measure success, and ensure accountability.
- **Flexibility:** While standardization is important, there also needs to be flexibility to cater to the unique needs and characteristics of each property. Each hotel might have its own competitive environment, customer demographics, and unique selling points. Strategies should be flexible enough to accommodate these differences.
- **Centralized Services:** Implementing centralized services like central reservation systems, combined procurement;
shared marketing strategies can help in reducing costs and increasing efficiency.

- **Guest Experience**: Ultimately, the goal of any hotel operation is to provide an exceptional guest experience. It's crucial that all operational strategies are aligned with this goal.

4. Conclusion

Successful cluster management in hotel operations is a balance of effective centralization and recognizing the individual needs of each property. The goal should always be to optimize operations, reduce costs, and maintain a high level of guest satisfaction.

The digital transformation has a significant impact in the cluster management by embracing digital technologies, hotel clusters can streamline operations, enhance guest experiences, and gain a competitive advantage in the market. Data analytics plays a crucial role in cluster management, as it enables hotels to gain insights into guest preferences, market trends, and operational efficiencies. By leveraging data-driven decision-making, hotel clusters can optimize pricing strategies, personalize guest experiences, and enhance revenue generation. To remain competitive in the ever-evolving hospitality landscape, hotel clusters must embrace digital transformation as a strategic imperative.

References


