"The role of operational innovation and external environment on the relationship between service quality and marketing performance in the hotel business"

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THE ROLE OF OPERATIONAL INNOVATION AND EXTERNAL ENVIRONMENT ON THE RELATIONSHIP BETWEEN SERVICE QUALITY AND MARKETING PERFORMANCE IN THE HOTEL BUSINESS

Abstract

Economic sustainability allows hotel customers and other stakeholders to profit from hospitality services. Hotels can improve their marketing success by leveraging technologies and innovation strategy initiatives to suit guests' ever-changing needs. Thus, this paper investigated the effect of service quality on marketing performance among hotels in Jordan. In addition, it analyzed the moderating role of operational innovation and external environment on the relationship between service quality and marketing performance among Jordanian hotels. This study was quantitative and used the pretested questionnaire by interviewing general managers. The valid questionnaires were distributed stratified randomly to general hotel managers. The analyzed data were from 162 completed questionnaires, employing partial least squares analysis software. The results demonstrate a positive relationship between service quality and marketing performance. Moreover, this relationship was moderated by operational innovation and external environment. Clearly, the managers in Jordanian hotels might find and draw business strategies by linking the marketing performance with the service quality specifically (SERVQUAL) and employing management and technologies strategies through its operational innovation and external environment.

Keywords service quality, SERVQUAL, operational innovation, external environment, marketing performance, hotels

JEL Classification L19, M31, Q55

INTRODUCTION

Marketing performance interpretation is dictated by the individual who is assessing the organization. Additionally, the definition of this concept requires an understanding of the characteristics of the performance elements that exist within each accountability domain. Lynch and Wilson (2009) similarly claimed the need to quantify the results while reporting the organizations' performance levels. Thus, organizations must use key performance indicators to analyze whether they achieve their goals and demonstrate awaited marketing performance.

Additionally, among hotels, an increase in marketing expenditure and improvement in service quality may reinforce a hotel's competitive status. At the same time, it may increase their resilience in managing different disasters, such as, for instance, financial crises (Kim & Han, 2011). Furthermore, Parasuraman et al. (1985) indicated that service quality entails the difference between customers' hopes and observations about the service received from an organization.

The implementation of business strategies and effective quality strategies involving service quality and reputation could also increase marketing performance (Al-Habil et al., 2017). Meanwhile, it was found that the relationship status between marketing performance and service quality was inconsistent because previous studies found negative and positive relationships between them (Pan & Ha, 2021; Bowie et al., 2016). Hence, this relationship needs to be improved by applying some factors such as operational innovation and external environment (Yadav & Singh, 2014).

Based on past findings, this study perceives the need for the hotel industry to improve its marketing performance. Hence, the paper attempted to investigate the impact of service quality on marketing performance among hotels in Jordan. Moreover, it examined the moderating role of operational innovation and the external environments in that relationship.

1. LITERATURE REVIEW

1.1. Service quality

Organizations are obliged to provide quality service because quality service is considered a crucial strategy for the organization to remain competitive in the market in this rapidly expanding business environment (Lian et al., 2020). Therefore, hotel managers need to develop techniques that could optimally fulfill the expectations of customers. As perceived by the customers of services providers like hotels, the infrastructure, physical ambiances, and the attitude and behavior of hotel staff are elements of service quality (Koziol & Mikos, 2019).

Lewis and Booms (1983) were pioneering scholars in the concept of service quality. According to them, it entails the degree to which the provided service matches the customer's anticipations. Equally, service quality concerns a general deduction of the superiority of a given service, even though it is rather unclear as to the specific characteristics of such deduction.

Several scholars have investigated elements of service quality. Sasser et al. (1978) found service quality to have three dimensions: physical facilities, materials, and staff. According to Grönroos (1984), service quality carries two aspects of technical quality and functional quality. Similarly, Rust and Oliver (1993) found three aspects of service quality: technical quality, functional quality, and environment. Parasuraman et al. (1985) relevantly proposed ten elements a customer would consider in the evaluation of service quality. These elements include security, reliability, credibility, tangibles, communication, competence, respon-

siveness, and courtesy. Additionally, Parasuraman et al. (1988) introduced five aspects of service quality: responsiveness, reliability, empathy, tangibles, and assurance. These aspects have been included as the SERVQUAL model components to measure service quality effectively.

Bowie et al. (2016) claimed that service quality propels organizations' economic and marketing performance. Appositely, in examining service quality issues within the government sector, Akroush (2008) found the increasing significance of the provided service quality, especially in developing nations. Furthermore, service quality and marketing performance were generally positively related in past studies.

1.2. Operational innovation

Operational innovation is associated with instruments employed in increasing the organizational processes necessary to accomplish effective and unified exchanges involving staff, administrators, and customers (Lee et al., 2011; Hammouri et al., 2021; Nusairat et al., 2021). As reported by Cox Pahnke et al. (2015), operational innovation decreases cost and lead time, produces effective operational strategies, strengthens service quality, and guarantees customer protection.

Adler et al. (2003) reported that an organizational environment that promotes continuous innovation facilitates the achievement of successful process improvement. In healthcare organizations, the use of an efficient operational process decreases cost by applying the best practices or approaches. Furthermore, McFadden et al. (2009) found the impact of process improvement on organizational

goals achievement by way of improved employee work performance. This demonstrates the significance of effective operational innovation over cost reduction and pressuring staff to increase hospitality. In addition, operational innovation efforts could enhance the processes of service delivery. Some hotels have applied these innovation tools as value chain innovation for process improvement, lean management and six sigma concepts, and the Baldrige criteria necessary to attain excellent performance (Lee et al., 2011).

For this study, operational innovation involves tools that enhance operational activities by improving processes and IT systems in hotels. Operational innovation is essential for improving process efficiency and information flow amongst units within a hotel. Therefore, operational innovation for the context of this study can be broken down into process improvement and the IT system of hotels. The items of measurement for the proposed operational innovation model were adapted from Lee (2015).

In service firms, innovative activities involve constructing systems that methodically include customers in the service generation process and the prompt discovery of customer evaluations of the service (Rew et al., 2021). Relevantly, Tsai et al. (2020) found a positive effect of operational innovation on marketing performance. Indeed, marketing performance is positively affected by service quality, but the effect would be negative if the provided service had poor quality. This statement demonstrates inconclusiveness between service quality and marketing performance. Hence, a moderating variable is included in this study, following Baron and Kenny (1986) and Bibi et al. (2016). Accordingly, in this study, operational innovation would moderate the correlation between marketing performance and service quality.

1.3. External environment

It is impossible for both profit and non-profit organizations to survive standing alone, and organizations are generally formed and administered following their environment. Otache and Mahmood (2015) have mentioned that organizations embrace an open system working alongside their environment. Clearly, the performance and activities of organizations are substantially affected by their environment. In fact, Sul et al. (2002) found that business planning and decision-making activities are generally executed taking into account the changes that occur within the environment. Thus, a successful organization would consistently tailor its resources, services, and strategies following the environment it operates in.

It is very challenging for any organization to survive in an extremely competitive market. García-Sánchez et al. (2018) relevantly mentioned that the internal resources of an organization must match with its external environment conditions so that the organization can effectively function. Sul et al. (2002) highlighted the need for organizations to keep updated with their environment to retain effective and efficient functioning. Fu et al. (2021) indicated that an organization could achieve long-term competitiveness by aligning its policies, capabilities, and resources with the external environment.

External environment can also affect the organizational resource and the organization's internal capacities (e.g., service quality), irrespective of the tangibility level of the resources (Fu et al., 2021; van Breda et al., 2001). Additionally, external environment positively affects marketing performance (Ziyadat, 2019). Service quality positively affects marketing performance as well, but poor service quality has an adverse impact on marketing performance (Pan & Ha, 2021). This implies an unpredictable relationship between service quality and marketing performance. Therefore, following Baron and Kenny (1986) and Bibi et al. (2016), this study included a moderating variable to the relationship between both constructs. Specifically, external environment was chosen as the moderator.

1.4. Marketing performance

Performance management has a crucial goal of accomplishing the organization's key objectives, generally by improving employee performance and organizational performance in general. In business administration domains, such as manufacturing, product development, and logistics (to name a few), performance management has been regarded as a primary strategy.

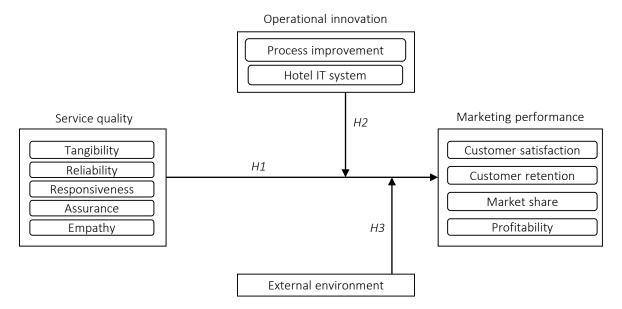


Figure 1. Proposed research model

Essentially, marketing performance management comprises marketing performance measurement, management, and analysis, to increase return on investment and organizational effectiveness (Halimi et al., 2021). It can also be referred to as the evaluation of the connection between business performance and marketing activities (Clark & Ambler, 2001). It was reported that shareholder wealth is substantially affected by the investment in marketing activities (O'Sullivan et al., 2009). However, such a connection may not be discernible in some organizations. Marketing managers thus have the responsibility to prove the value of their marketing investments.

Market performance is arbitrage to the organization's key objectives and productivity (Chang et al., 2018). It is also a capability in the producing and marketing services and products to accomplish the set goals. Notably, marketing performance of an organization reflects how effective the organization is in using its resources to satisfy customers' needs. Therefore, in market performance evaluation, the applied dimensions are market share and profitability, customer retention, and customer satisfaction.

Marketing performance measurement (MPM) has been utilized by marketing experts in depicting the marketing effectiveness analysis (O'Sullivan et al., 2009). MPM connects all activities that are associated with marketing, strategies, and metrics with business goals (Collins et al., 2007). It involves

the use of a metrics framework usable in marketing performance monitoring. To this end, MPM dash-boards were created, covering the following: advertising and promotional share, brand recognition and satisfaction, contribution margin, turnover, market share, profit, purchase intent, customer penetration, loyalty and satisfaction, distribution level, profitability of intermediaries, and innovativeness.

The essence of marketing performance and organizational orientation toward its performance are two factors that make the core structure of organizations different from that of marketing performance metrics. Marketing performance measures can be classed into two major metrics, including sales, cash flow, profitability, and sales growth (Farris et al., 2010). Others include market share, adaptation, innovation capacity, new product success, customer satisfaction, and customer loyalty (Clark & Ambler, 2001). Accordingly, profitability, market share, innovation or creativity, sales growth, customer satisfaction, customer retention, and customer loyalty are among the factors to be considered in evaluating marketing performance (Albakri & Hadi, 2014).

2. AIM AND HYPOTHESES

The present paper aims to assess the moderating effect of external environment and operational innovation on the correlation between service quality and marketing performance in the hotel business. Hence, the following hypotheses are proposed (Figure 1):

- H1: Service quality has a positive impact on marketing performance.
- H2: Operational innovation moderates the relationship between service quality and marketing performance.
- H3: External environment moderates the relationship between service quality and marketing performance.

3. METHODS

This study examined the moderating effect of external environment and operational innovation on the relationship between marketing performance and service quality of star-rated Jordanian hotels. As well, the current study is quantitative in nature. Accordingly, data were obtained using a questionnaire that included quantitative indicators as the following details. Section one contained 20 items covering the five factors of service quality (empathy, reliability, responsiveness, assurance, and tangibles) adapted from Parasuraman et al. (1988). Section two contained seven items covering two factors (process improvement and hotel IT systems) adapted from Lee (2015). Next section contained 20 items on marketing performance represented by four factors of customer satisfaction (5 items), customer retention (5 items), market share (5 items), and profitability (5 items). Finally, section four contained 15 items representing the construct of external environment adopted from Fu et al. (2021). All constructs in the questionnaire were handled as multidimensional construct, except for the construct of external environment, which was handled as a uni-dimensional construct. In addition to the four sections of construct items, one section was added, and this section contained six demographic questions. Altogether, there were 68 items in the questionnaire broken down into five sections.

Prior to the current survey, the established questionnaire was validated by three university scholars who were experts in the field related to the study topic. The feedback that these experts pro-

vided was used for questionnaire amendments – the amending process took place after receiving feedback from these experts. This was to assure that the questionnaire was valid for the study context. Next, the amended questionnaire underwent the pretesting process, as recommended by Akroush et al. (2015). In the pretest, interviews were carried out involving 30 general managers to gain their viewpoints concerning the sufficiency and clarity of the items in the questionnaires. Their inputs were taken into account.

A Likert-type scale was used in this study to measure the response to the questionnaire items. This type of scale has been popular and has been expansively tested within marketing and social sciences (Garland, 1991). In the scale, the quantity of points is determined based on the study context. Hence, specific rules on this do not exist. However, generally, the use of 5, 7, or 10 points has been common in studies, with the five-point scale being considered most effective for the present study, as proposed by Sekaran and Bougie (2013).

The study population comprised 236 hotels rated with between 1 and 5 stars. In line with the suggestions of Lo et al. (2010), this study employed the critical informant method in selecting the study sample. Specifically, general hotel managers were the study informants, and they were regarded as high-level respondents for their deep knowledge of their respective organizations. According to Smith and Chang (2010), informants as respondents would provide answers to the questionnaire items based on their professional knowledge and practices as much as they could. Meanwhile, the minimal sample size was established using G-power technique, which is grounded upon the number of predictors.

The determined minimum sample size was 74. However, considering that the survey method has a weak response rate, Hair et al. (2010) had recommended that the number of respondents should be more than 100 to increase the rate of response and hence the accuracy of results. This study thus distributed to a total of 212 questionnaires. The selection of hotel categories was based on stratified sampling, while the respondents for each hotel were selected using a simple random sampling technique. SPSS Version 18 and PLS Version 3.3.6

were used in the data analysis. The response rate and the respondents' profiles were determined using descriptive statistics, while the relationship between the variables and (service quality and market performance) was determined through inferential analyses.

4. DATA ANALYSIS

4.1. Demographic characteristics

Out of 160 obtained responses, 22 were incomplete and hence dismissed, resulting in 138 responses usable for analysis. The outcomes of the analysis are as follows: males made up the majority of respondents at 61.2%; 59.6% were single. Most respondents were between 40 and 44 years old (59.2%), and 54.1% had at least one degree (education-wise). Data normality was ascertained in this study by evaluating the multivariate skewness and kurtosis of the data. The evaluation of skewness and kurtosis in determining data normality has been proposed by Hair et al. (2014). The results were showing that the data were of non-multivariate normal as follows: Mardia's multivariate skewness (B = 9.003, p < 0.01) and Mardia's multivariate kurtosis (B = 61.777, p < 0.01).

Next, this paper employed Smart-PLS to estimate relationships between the constructs. It consisted of two steps. First, confirmation of the measurement model was made through convergent validity and discriminate validity affirmation. Second, the hypothesis testing or the confirmation of the structural model was done. In this study, external environment was the inspected key variable of first-order construct. Service quality as reflective-reflective structures was the second-order construct represented by the following variables: credibility, trustworthiness, expertise, experience, and physical appearance. Second-order constructs extend the understanding of pertinent logical and consent functions.

Hair et al. (2019) suggested reducing the number of interactions and assumptions in the structural model in the second stage. The purpose was to ease understanding. Therefore, this study simplified the direction model of PLS 3.3.6. Here, there were two phases involved, whereby the former in-

volved using the technique of repetitive indicator to gain the first-order scores for first-order constructs. In contrast, the latter involved the computation of CR. Finally, a calculation was made to obtain the AVE value of second-order constructs, utilizing the weighting of the first-order variables.

Table 1. Convergent validity values for the CFA of the research model

CONSTRUCT	ITEM	FL	CR	AVE
	First	-order		
	TNG1	0.839		
Tangibility	TNG2	0.870	0.004	0.702
(TNG)	TNG3	0.847	0.904	0.702
	TNG4	0.792		
	RLB1	0.853	0.909	0.714
Poliobility (PLP)	RLB2	0.860		
Reliability (RLB)	RLB3	0.867		
	RLB4	0.797		
	RSP1	0.839		0.695
Responsiveness	RSP2	0.856	0.901	
(RSP)	RSP3	0.840	0.901	
	RSP4	0.798		
	ASU1	0.807		
Assurance (ASU)	ASU2	0.825	0.872	0.630
	ASU3	0.813	0.872	0.630
	ASU4	0.727		
(FA4D)	EMP1	0.835		0.750
	EMP2	0.884	0.022	
Empathy (EMP)	EMP3	0.890	0.923	
	EMP4	0.855		
	PRF1	0.844		
Profitability (PRF)	PRF2	0.859	0.932	0.733
	PRF3	0.854		
	PRF4	0.872		
	PRF5	0.851		
	MKS1	0.862	0.925	0.711
	MKS2	0.873		
Market share (MKS)	MKS3	0.857		
(IVIKS)	MKS4	0.856		
	MKS5	0.764		
	CSR1	0.825	0.923	0.705
	CSR2	0.823		
Customer retention (CSR)	CSR3	0.858		
retention (est)	CSR4	0.841		
	CSR5	0.850		
	CSS1	0.816	0.922	0.702
Customer	CSS2	0.829		
satisfaction (CSS)	CSS3	0.851		
	CSS4	0.879		
	CSS5	0.813		
Process improvement (PI)	PI 1	0.984	0.933 0.743	
	PI 2	0.911		
	PI 3	0.923		0.743
	PI 4	0.896		

Table 1 (cont.). Convergent validity values for the CFA of the research model

CONSTRUCT	ITEM	FL	CR	AVE
	First-o	rder		
Hotel IT systems (HS)	HS 1	0.876	0.854	0.877
	HS 2	0.843		
	HS3	0.821		
	EE 1	0.769		
	EE 2	0.871		
	EE 3	0.832		0.644
	EE 4	0.881		
	EE 5	0.893		
	EE 6	0.843		
External	EE 7	0.811	0.843	
Environment	EE 8	0.791		
(EE)	EE 9	0.785		
	EE 10	0.881	•	
	EE 11	0.843		
	EE 12	0.838		
	EE 13	0.992		
	EE 14	0.921		
	EE 15	0.923		
	Second-	-order		
Service quality	Tangibility	0.942		
	Reliability	0.933		
	Responsiveness	0.912	0.852	0.657
	Assurance	0.951		
	Empathy	0.899		
Operational	Process improvement	0.898	0.930	0.729
Innovation (OP)	Hotel IT systems	0.857		
	Profitability	0.860	0.910 0.	0.718
Marketing performance (MP)	Market share	0.762		
	Customer retention	0.889		
	Customer satisfaction	0.872		

5. RESULTS

In this study, PLS 3.3.6 was used to extract the results, where convergent validity was determined according to Hair et al. (2019). Hence, the convergent validity is affirmed if loadings and AVE are greater than 0.5 and composite reliability is greater larger than 0.7. Values displayed in Table 1 are all larger than the proposed cut-off value. Hence, the model proposed in this study has convergent validity. As well, in this study, the constructs in the CFA model all obtained values between 0.080 and 0.796, which is clearly lower than 0.90. Based on the suggestion of Henseler et al. (2015), each latent construct measurement was fully discriminated.

The structural model was evaluated to estimate the capability of service quality in foresting the marketing performance. Marketing performance (MP) scored R² value of 0.511. In other words, 51% of the disparity in MP is describable via service quality, which functions as a predictor variable. The obtained R2 value fulfills Chin's (1998) proposed cut-off value of 0.19. Also, for MP, the obtained Q2 value was 0.240, which, according to Chin (2010), shows that the model has predictive relevance and acceptable fit because the value was higher than 0. Table 1 also shows that the variance inflation factor (VIF) value was smaller than Hair et al.' (2014) recommended cut-off value of 5 (2.050). For MP prediction, the p-value of SERVQUAL was 0.000, denoting that the potential of accomplishing an absolute p-value is 0.000, while the standard (SB) was 0.715. MP was thus positively affected by SERVQUAL.

The results of the moderating impact of external environment and operational innovation on the correlation between marketing performance and service quality of hotels operating in Jordan can be viewed as follows. The negative link between marketing performance and service quality and their relationship was moderated by operational innovation with the following details: B = 0.402, t = 3.757: p < 0.05. Equally, external environment also moderated the relationship between marketing performance and service quality: B = 0.418, t= 2.235: p < 0.0.05. Accordingly, the correlation between service quality and marketing performance will be moderated by the high-level influence of both operational innovation and external environment.

6. DISCUSSION

This paper examined the effect of service quality on marketing performance, moderated by operational innovation and external environment. A positive significant direct impact of service quality on marketing performance was found. Thus, HI was supported. Relevantly, past studies (e.g., Al-Habil et al., 2017; Kalinova, 2014; Lee & Lambert, 2008) that considered the influence of service quality on marketing performance have concluded a positive effect of service quality on loyalty and marketing performance. Hence, for hotels, their service qual-

ity could be improved by paying attention to the service quality element, which consequently will increase marketing performance. This means that unique, uncommon, non-replaceable, and distinctive marketing talents and tangible and intangible resources are sources of competitive advantage that lead to an organization's better performance.

The moderating role of operational innovation on the relationship between marketing performance and service quality was affirmed. Hence, *H2* was supported. In this regard, the utilization of tools that increase operational activities by way of process improvement and hotels IT systems increases process efficiency and smoother information flow amongst units within a hotel. Thus, improvements result in increased marketing performance, as well the innovative capacity to produce varied innovations, which will guarantee effective development and boost the performance of a hotel. This is exemplified by the inventive trend in the hospitality

business. Moreover, it is shown by the capability to initiate innovations, ensuring efficient development and hence, increased hotel performance.

Lastly, the external environment was proved to moderate the relationship between marketing performance and service quality. Therefore, H3 was supported. Worded another way, events occurring in the external environment (e.g., activities performed by competitors and the progression of competitors) will push hotels to restructure their services and products to increase their marketing performance. Meanwhile, external environments are significant because they can, directly and indirectly, influence business operations, people, and income. The external environment of a company changes regularly in ways that are beyond the hotel's control. However, executives and managers may watch these changes, mitigate their effects, and influence them to be powerful factors in improving performance.

CONCLUSION

This study finds out that service quality improves marketing performance of Jordanian hotels. Furthermore, this study proved that operational innovation and external environmental moderate the relationship between marketing performance and service quality. In other words, this study found direct and indirect linkages between marketing performance and service quality. On the one hand, this study affirmed the idea that any investments in innovation programs and initiatives such as process improvement and IT systems will lead to better efficiency and marketing performance. However, on the other hand, this study also validated the assumption that the external environment, such as advancements and progress actions by competitors, will encourage hoteliers to improve their services and products, which will lead to better marketing performance.

These results expanded the knowledge of service quality, as well as its impact on marketing performance. Moreover, this study used and applied the RBV theory to investigate the moderating roles of operational innovation and external environment on the linkage between marketing performance and service quality in the Jordanian hotel sphere. The findings of this study give practitioners the right tools and philosophy for leveraging the marketing performance in the hotel industry.

AUTHOR CONTRIBUTIONS

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