

Behaviours and Perceptions of Tourists and Residents of the Algarve: A Contribution to Enhancing Sustainable Development

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Manuscript received July 11, 2023; revised September 6, 2023; accepted April 24, 2024; published June 17, 2024

Abstract Literature suggests that measuring the perceptions of all stakeholders, including tourists, residents, and public and private organizations, is required to monitor the sustainable development of a tourist destination holistically and comprehensively. There is a lack of monitoring systems of those perceptions in several tourist destinations, such as the Algarve, Portugal. The main objective of this paper is to contribute to bridging this gap by measuring the perceptions and behaviours of tourists and residents of the Algarve to inform decision-makers for designing and implementing public policies to strengthen the Algarve's sustainable development. The research designed two questionnaires to measure the perceptions and behaviours of tourists and residents of the Algarve. Both questionnaires were based on a previously developed assessment model to monitor the Algarve's sustainable development among four dimensions: economic, socio-cultural, environmental, and destination management. The results of these two surveys will support decision-makers in designing measures for more sustainable tourism development, considering both tourists' behaviours and residents' perceptions of the tourism impacts in the Algarve

Keywords evaluation of tourism destinations, tourist behaviour, resident perceptions, tourism impacts, loyalty

I. INTRODUCTION

Coastal beach destinations have become popular tourism hotspots in recent decades [1]. Roughly 40% of the world's population lives within coastal zones [2], many of which rely on coastal tourism as a source of income [3]. Tourism affects coastal destinations through increased business activities, income generation, and employment [4, 5, 6]. Over half of the tourists to destinations are repeat visitors [7], and attracting such is more cost-effective than reaching new ones [8].

Sustainable and inclusive tourism development requires involving all destination stakeholders directly and indirectly affected by tourism [9]. Such involvement includes understanding stakeholders' perceptions about the sustainability of current tourism practices [10]. Residents are one of the main stakeholders in the tourism sector and a crucial part of enhancing the tourism success of a destination [11, 12, 13]. Tourists, another critical stakeholder group, influence the sustainability level of a destination with their behaviour. Such recognition justifies the effort to gather more profound data on preferences, perceptions, and attitudes concerning tourists and residents.

This study aims to add knowledge by producing new insights for coastal tourism destination research. The study

main objectives are to assess tourist revisit intentions and loyalty towards the coastal destination, the Algarve, Portugal. It further seeks to uncover resident perceptions about the impacts of tourism and tourism development in the region. The study's findings provide empirical insights into the post-pandemic visitor profile of tourist and resident perceptions in the Algarve. The outcomes can be helpful to decision-makers in designing measures for sustainable tourism development, considering both tourist behaviours and resident perceptions

II. THEORETICAL FOUNDATION AND HYPOTHESES DEVELOPMENT

A. Tourist Satisfaction

Tourist satisfaction is crucial for tourism destinations as it affects visiting choices, consumption patterns, and revisit intentions [14, 15]. As such, it is one of the most highly investigated themes in tourism research [16]. Tourist satisfaction is influenced by several elements, such as socioeconomic, demographic, and behavioural factors [17].

Tourist satisfaction is achieved when the expectations of an experience are fulfilled or surpassed [18, 19].

Experiencing satisfactory tourism experiences increases the chances of revisiting intentions and willingness to recommend the experience to others [15, 21, 24]. Hence, satisfaction is an essential predictor of tourist loyalty [25, 28].

Studies examining tourist satisfaction found a positive correlation between tourist satisfaction and recommendation to third parties, especially for Word of Mouth (WOM) [29]. The recommendation of other people (WOM) is considered one of the most valuable types for tourists [22].

B. Tourist Loyalty

Loyalty is one of the most important predictors of future behaviour [22]. Several factors are suggested to impact tourist loyalty, such as visit factors (motives, information search, and destination image [31], tourism type [32], distance travelled [33], satisfaction with the travel experience [34], perceived value [35], destination image [36], and trip quality [18].

Revisit intentions and the willingness to recommend an experience or destination to others are predictors of customer loyalty [37, 38]. The intention to revisit a destination has

been reviewed in several studies as a component of loyalty competitiveness of a destination [57]. [29, 39, 40] However, some argue that repeat visitation is H1. Perceived destination risks directly affect tourist triggered by either loyal or habitual behaviour [41]. A study intentions to revisit the Algarve. by Kozaket al. [42] suggested that repeat visitors show lower Visitor characteristics may influence their satisfaction satisfaction levels but keep returning due to demographic levels with a destination [58], which in turn affects revisit factors, such as being older domestic travellers. It could be intentions. The visitor profile is relevant for destination argued that even visitors with lower satisfaction scores can be management strategies and sustainability practices applied to frequent return visitors due to convenience factors, such as achieve tourist satisfacti [59]. The quality of tourism offer geographical location or their visitor profile encouraging and visitors' perception of the experiential quality are crucial habitual return visits. for the success of a destination [60].

C. Resident Perceptions of Tourism Impacts

It is crucial to understand the residents of tourism in popular tourist destination [42, 43]. Recognizing residents' attitudes through frequent monitoring can support the development of holistic and sustainable tourism policies [44, 45]. Including residents' views in decisionmaking is becoming more common; however, such measures have to be effectively executed in Portugal [45].

Studies on resident perceptions of tourism impacts reported economic, social, cultural, psychological and environmental effects [45]. The key factors influencing resident attitudes on tourism impact are sociodemographics, the type and scale of tourism activity at the destination, the proximity of residential areas and tourist zones, residents' awareness of sustainability measures in place [42, 45, 46]. Research shows that residents welcome the positive benefits of tourism activity while being overly perceptible to the negative ones [44, 46].

D. Resident Opinions about Tourism Development

It is believed that a balance between local opinions of the detriments and advantages of tourism plays a significant role in visitor satisfaction [47, 48]. Studies indicate that residents who benefit from tourism activity via economic gains or socio-cultural improvements are more likely to support its development, whereas those with little to no benefit are more likely to oppose it [44, 49, 50]. Others argue that residents assess tourism by the visual and ambient impacts it causes on the host community [51]. Those observing adverse effects on the quality of life, such as litter, noise, graffiti, increased traffic, and criminal activity, are more likely to oppose tourism and tourism development [49]. The failure to regard residents' opinions and concerns can lead to a loss of support towards tourism [52], hostility towards tourists or even a reluctance to work in the tourism industry [38].

E. Hypotheses

The interactions between tourists and residents, the perceived adverse effects caused by tourism and how tourists perceive destination risk play a role in a tourism destination success. Based on these assumptions, the following hypotheses have been developed for this research.

Relationship between tourists' perceptions about the destination and revisit intentions. Perceived risk is a subjective expectation of loss [53, 54], leading in turn to various levels of risk assessment among different people [55]. Tourists' perceived risk at a travel destination is a significant pull factor for destinations and their image [56]. Safety concerns negatively influence tourists' destination choices (Crotts, 2003). Thus, making visitors feel secure and safe at a destination is critical for the international

H2. Perceived destination quality positively influences tourists' intentions to revisit the Algarve.

H3. Perceived price level at the destination negatively influences tourist intentions to revisit the Algarve.

H4. Perceived existence of assets at the destination influences tourists' revisit intentions.

Relationship between residents' perception of tourists' behaviour and attitudes toward tourism development.

The perceptions of residents on tourism and tourism development have been reviewed in numerous studies.

However, opinions and behaviour toward tourists, particular, have not been extensively researched [61].

The quality of interaction and relationships between the residents and tourists is influenced by several factors, such as social distance theory, leading to preferred interactions with visitors from similar cultural backgrounds [62]. Interactions also be assessed based on tourist compatibility, whereas the favourite tourist groups received favourable treatment [61].

H5. Tourists' respect, treatment and behaviour directly affect residents' attitudes towards tourism.

III. METHODOLOGY

A. Study Area

The Algarve is the southernmost region of Portugal, occupying an area of 4,997 km² divided into 16 municipalities. It is one of the two Portuguese regions registering a population growth over the last ten years, leading to a population of 467,495 in 2021. In 2022, Algarve welcomed 28.9 million guests and 77 million overnight stays. In the first two months of 2023, total overnight stays grew by 23.7% for residents and 26.9% for non-residents compared to the same period in 2022 [63].

B. Data Collection Process

Tourist survey. The questionnaire was conducted in the Algarve in the high season, between June and August 2022. The tourist questionnaire was distributed at Faro Airport and the selected popular tourist sites of the Algarve. It was available in English, German, French, Spanish and Portuguese, allowing respondents to answer in their preferred language. The questionnaire consisted of 27 closed and 14 open-ended questions and was self-administered by respondents.

The population consisted of international and national tourists to the Algarve over 18 years old who spent at least one night and a maximum of 12 months in the Algarve. Respondents were personally approached by the interviewers applying a random sampling approach. Stratified targets were assessed to ensure the target group reflected the distribution of tourism numbers per country of origin, and correlating nights were chosen for data collection.

Residentsurvey. The surveyof residents was run in all 16 origin markets highlighted in the statistics of priority markets municipalities of the Algarve region during the high seasonof the Algarve Tourism Board, with the majority originating between July and August 2022. The eligibility criteria fofrom Portugal, the UKand Germany. participants include residing in the Algarve for at least one The resident survey sample follows the 2022 resident year, being 18 years or older, and speaking Portuguese distribution of inhabitants by the municipality based on fluently. Consequently, the questionnaire was only provided gender and age group. Table 1 highlights the main in Portuguese. characteristics of the resident and tourist samples.

The questionnaire consisted of 23 closed questions. After explaining the research objectives, it was distributed to participants who agreed to collaborate. Residents were approached by random selection in each of the municipalities in the Algarve.

C. Sampling

The resident and tourist surveys were conducted under stratified sampling to represent each population subgroup accurately. For the tourist questionnaire, stratified samples were based on the country of origin to ensure the target group reflected the distribution of tourism numbers per country of origin correlating flights were chosen for data collection. The resident questionnaire was stratified based on 2022 data of the 467,343 inhabitants by municipality, gender, and age group.

The sample size was calculated for a 95% confidence level and a margin of error of 3%. A total of 1,047 tourists and 1,000 residents completed the survey, of which 974 (tourists) and 990 (residents) were valid questionnaires. Incomplete questionnaires with nonresponse rates above 10% were discarded, as the missing data could compromise the study statistical results[64]. It was ensured that the sample representativeness was maintained despite the discarded questionnaires.

D. Data Analysis

After reaching the targeted sample size, the data were processed and analyzed using SPSS software.

The resident survey was disaggregated according to sociodemographic characteristics such as the area of residence in the Algarve, time of residence, age group, education level and individuals dependency on the tourism sector. The statistical data analysis was done through descriptive statistics.

The tourist survey data was analyzed using descriptive statistics and the logistic regression model to estimate determinants of tourist loyalty. A dummy variable was assigned to measure tourist loyalty (coded as 1 for yes and 0 for no); the intention to revisit the destination in the next five years. Since 100% of respondents stated their intention to return, the variable of willingness to pay was chosen as a proxy for loyalty. The independent variables were selected from the ones that revealed an explanatory relationship in the literature review and are as follows: perceived risks, quality level of prices and the existence of assets at the destination. The literature on this topic reports that characteristics, such as the tourist type (domestic and international) and frequency of visiting the destination (first time or repeat visitor), are predictors of tourist loyalty[24, 32,39].

Table1. Sample characteristics

Characteristic	Tourists (n = 974)		Residents (n = 990)	
	n	%	n	%
Gender				
Male	442	45.7%	424	42.8%
Female	524	54.1%	565	57.1%
Other	2	0.2%	1	0.1%
Age Group				
18-24 years	163	19.0%	120	12.1%
25-64 years	670	78.1%	773	78.1%
65 and more	25	2.9%	97	9.8%
Marital Status				
Single	342	35.8%	366	37.6%
Married/Living together	541	56.6%	477	49.0%
Divorced/Separated	64	6.7%	106	10.9%
Widowed	8	0.8%	25	2.6%
Education Level				
Primary School	45	4.9%	147	15.1%
High School	342	37.1%	495	50.9%
University	534	58.0%	330	34.0%
Employment Situation				
Employed	632	66.9%	707	74.9%
Entrepreneur	148	15.7%	155	16.4%
Unemployed	23	2.4%	9	1.0%
Student	103	10.9%	46	4.9%
Retired	34	3.6%	24	2.5%
Homemaker	5	0.5%	3	0.3%

Fifty-nine percent of respondents were first-time visitors to the Algarve (n = 578). Only a small percentage (16%) of respondents indicated having visited sun, sand and sea destinations offering a similar tourism product as the Algarve. Respondents who could compare their experience in the Algarve with that at other destinations rated the destination as positive, rating them the same (39%) or better (52%). A similar evaluation was provided on the Algarve safety, with the majority rating the Algarve as a safe destination (42%) or safer destination than other similar destinations (56%). One important factor influencing residents support of tourism in their municipality or region is their dependency on the sector. In this study, most respondents indicated not being employed or receiving monetary gain from tourism. With the Algarve being a prime tourism location in Portugal, the relatively low number of people not employed in tourism jobs in the summer of 2022 may be attributed to the aftermath of the COVID-19 pandemic. Unemployment rates in accommodation, food and similar services peaked in 2021, and though on the road to recovery in 2022, employment has yet to fully recover to preCOVID levels at the point of this study[65]. The results in Table 2 highlight that the support of residents for tourism in their municipality is moderate, with little variation in opinions among the surveyed group. The pro-tourism behaviour of residents is slightly lower than the support for tourism while maintaining a moderate ratio with a low between responses.

IV. RESULTS

Fifty-eight nationalities views are included in the survey. The tourist sample characteristics reflect the distribution of

Table2. Tourist and resident relationship and perception of the destination

Variable	Tourists (n = 974) %	Variable	Residents (n = 990) %
First Visit		Work in tourism	
Yes	59%	Yes	41.3
No	41%	No	58.7
Visited other sun and sand tourism destinations beyond the Algarve		Residence time	
Yes	16%	until 3 years	9.9%
No	84%	4 to 5 years	19.7%
		16 or more years	70.4%
If YES, compared to other sun and sand tourism destinations, the Algarve is generally.		Assessment of Tourism Development in Municipality of Residence	
Much worse	0%	Very weak	3.0%
Worse	8%	Weak	9.2%
The same	39%	Moderate	39.1%
Better	41%	Strong	37.4%
Much better	11%	Very strong	11.4%
If YES, compared to other sun and sand tourism destinations, the Algarve is:		Mean Standard deviation	
Much less safe	0%	Support for tourism	3.9/0.7
Less safe	2%		
Neutral	42%	Pro-tourism behaviour	3.4/0.6
Safer	44%		
Much safer	12%		

Table3. Tourist perceptions of primary features of the destination

Variables	Mean	Standard Deviation
Perceived Risk (Alpha = 0.858)	2.3	0.86
Existence of crime and violence was a concern during my visit	2.4	1.16
Global threats, such as those posed by terrorist attacks, were a concern during visit	2.2	1.17
Occurrence of epidemics, such as COVID-19, was a concern during visit	2.5	1.14
Occurrence of epidemics, such as COVID-19, affects choice of tourism destinations	2.7	1.20
Generally, the Algarve is an unsafe tourism destination	1.8	0.61
Perceived Quality (Alpha = 0.826)	3.9	0.56
Overall quality level of tourist services	4.0	0.66
Quality level of accommodation services	4.0	0.73
Quality level of restaurants and similar services	3.9	0.78
Quality level of local trade/traditional stores	3.8	0.74
Quality level of shopping centres/malls	3.7	0.77
Perceived Prices (Alpha = 0.887)	3.2	0.65
Overall price levels	3.3	0.80
Price level of accommodation services	3.4	0.84
Price level of restaurants and similar services	3.3	0.84
Price level of local trade/traditional stores	3.1	0.73
Price level of shopping centres/malls	3.1	0.63
Perceived Assets (Alpha = 0.727)	3.9	0.61
Generally, the Algarve has a good environmental quality	3.9	0.74
Generally, the Algarve is a destination that preserves its cultural heritage	3.8	0.76
Generally, residents in the Algarve treat tourists with sympathy	3.9	0.82

The assessment of the tourists' perceptions of the primary features of the Algarve shows that the perceived risk is low.

(mean 2.3), with a low rating of the Algarve as an unsafe tourism destination (mean 1.8). Further highlights of Table 3 include the moderately high rated quality (mean 3.9) and assets (mean 3.9) at the Algarve as well as the average price level (mean 3.2). The Cronbach's alpha coefficients range from 0.56 to 0.86, which indicates satisfactory construct reliability.

Determinants of loyalty. The logistic regression model was used to identify determinants of the intention to revisit the Algarve. First, a multicollinearity check was run to confirm that there was no strong collinearity among the covariables.

Table4. Determinants of intention to revisit the destination (logistic regression)

	Coefficient	Standard Error	p-value	Exp (coefficient)
Perceived Risk	0.774***	0.168	< 0.001	2.17
Perceived Quality	1.134***	0.281	< 0.001	3.11
Perceived Prices	0.519*	0.246	0.035	0.60
Perceived Assets	0.801**	0.236	0.001	2.23
First-time visitor	1.488***	0.327	< 0.001	4.43
International tourist	2.832***	0.694	< 0.001	16.97
Constant	-6.364***	1.533	< 0.001	0.002
Test				
Score test (LM test)	143.1	6	< 0.001	
Hosmer and Lemeshow test	7.925	8	0.441	
Cox and Snell R ² = 0.180		Nagelkerke R ² = 0.347		

Note: * p-value < 0.05; ** p-value < 0.01; *** p-value < 0.001

The results presented in Table 4 show that the null hypothesis of the test of overall model significance (Lagrange multiplier test) is rejected (< 0.001), but the null hypothesis of the Hosmer and Lemeshow test is not rejected (p = 0.441), which shows that the fitted model is correct. Pseudo R² measures indicate a good model fit (e.g., Nagelkerke R² = 0.347).

The Wald tests for each coefficient indicate that control variables (first-time visitor and tourist type) influence the intention to revisit the destination. The logistic model identifies first-time visitors as a specific characteristic that explains heterogeneity in loyalty and indicates that first-time visitors are 4.43 times more likely to revisit the destination than repeaters (odds ratio 4.43), which confirms results of other studies with a positive correlation between first-time visitors and higher levels of revisit intention [66]. Considering tourist type, the odds of revisiting the destination are 17 times higher for domestic than international tourists (odds ratio 16.97).

The results of Table 4 meet the model hypothesis regarding dimensions as predictors of tourists' revisit intention. Firstly, the estimates of the logit model reveal that perceived risk is statistically significant (< 0.001), implying that a one-unit decrease in tourists' perceived risk will increase the odds of intention to revisit the destination by 2 (odds ratio 2.17). Thus, H1 (Perceived destination risks directly affect tourist intentions to revisit the Algarve) is supported.

Results show that when there is a unit increase in the level of perceived quality of the destination, it increases the probability of tourists' revisit intention by 211% (odds ratio of 3.11), which supports H2 (Perceived destination quality positively influences tourists' intentions to revisit the Algarve).

Results also show that a unit increase in the perceived level of prices at the destination decreases the odds of revisit intention by 40%; that is, intention to revisit the Algarve is 0.60 times as likely with a unit increase in the perception of high price levels at the destination, from 1 to 2, or 2 to 3). As a result, H3 (The perceived price level at the destination negatively influences tourist intentions to revisit the Algarve) is supported.

Finally, results display that a unit increase in the perceived assets existent in the destination increases the odds of revisit intention by 123%; that is, the intention to revisit the Algarve is 2.23 times as likely with a unit increase in the perception of assets at the destination.

Table 5 presents the Spearman correlation coefficient between residents' perceptions of tourist behaviour and their attitudes toward tourism (support for tourism and tourism behaviour). The results indicate a weak correlation between tourist spending and resident attitudes towards tourism support and the tourism behaviour of residents. Slightly higher, however still weak, positive correlations are observable between the way tourists treat residents and the respect they exhibit and an increase in residents' attitudes to tourism support or tourism behaviour, leading to the rejection of H5 (Tourists' respect, treatment and behaviour directly affect residents' attitudes towards tourism).

Table 5. Correlation between residents' perception of tourist behaviour and their attitudes toward tourism

Evaluation of tourist behaviour	Mean	Standard deviation	Tourism Support	Pro-Tourism Behaviour
« U H V S H F \ residents	3.13	1.25	0.313**	0.206**
« W K H Z D \ W residents	3.16	0.72	0.323**	0.201**
« W K H L U g V \ residents	3.04	0.81	0.193**	0.106**

Note: * p-value < 0.05; ** p-value < 0.01; *** p-value < 0.001

V. CONCLUSION

The results obtained through the questionnaire reveal that the Algarve is a destination viewed positively by the tourists who visit it. The overall satisfaction with the Algarve is high or very high and it compares favourably with alternative Sun & Sand tourist destinations. Crime, violence, and lack of security are not primary concerns for tourists visiting the region. Finally, many tourists, including domestic ones, intend to revisit the region.

Several conclusions about the behaviours and perceptions of tourists and residents could be drawn. Firstly, an influence of the perceived destination risk on tourists' revisit intentions was observed. Factors positively influencing the revisit intentions of tourists at the Algarve, which affect loyalty, are the perceived destination risk, quality price levels and destination assets.

This study did not confirm a connection between the respect and treatment exhibited by tourists towards residents

and their support for tourism or tourism behaviour.

A. Practical Implications

The findings of this study provide knowledge to policymakers, businesses and tourism bodies in the Algarve and similar destinations on the effects of tourist perceptions and behaviours and residents. The learnings can inform the design and implementation of public policies to strengthen the Algarve's sustainable development. Some of the findings to consider in future policies may be the limited correlation between tourist spending and the treatment of residents of tourist support and tourism behaviour.

Furthermore, tourism boards and providers may utilize the result indicating an effect on tourist loyalty to improve the tourism offer and services at the Algarve. This study suggests a connection between safety, destination quality, perceived price levels, destination assets, and revisit intentions. These factors should receive additional attention in tourism planning and policies implemented at coastal destinations.

B. Limitations

The following limitations are highlighted for this study:

- (1) This study was carried out in the high season of 2022 and thus captured the opinions and views of individuals in the first high season after lifting COVID-19 restrictions. The results may not be easily comparable with previous studies on tourist and resident data in the Algarve.
- (2) The paper only reflects the results of high season data collection. Therefore, the results cannot be applied to assess the behaviours and perceptions of tourists and residents in the low season. Further studies are needed to examine this period and compare the various visitors profiles and resident attitudes at different times of the year. The authors declare no conflict of interest

CONFLICT OF INTEREST

The authors declare no conflict of interest

AUTHOR CONTRIBUTIONS

L.N.P. conducted the statistical analysis and data interpretation. C.M. developed the literature review and supported the writing of the paper. A.S., J.A., and R.N. provided suggestions for improvement. All authors approved the final version of the paper

FUNDING

The authors would like to acknowledge the funding support provided by the Foundation for Science and Technology through projects UIDB/04020/2020, and UIDP/04007/2020 and the European Regional Development Fund by CRESC Algarve 2020 through project Ref. N.º ALG-01-0145-FEDER-072582 (SAICTALG/72582/2020).

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