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Article

Motivation, Satisfaction and Recommendation Behaviour Model in a Touristic Coastal Destination: Pre and During COVID-19 Pandemic Compared

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Abstract

The growth of tourism in coastal destinations has attracted academic attention due to the link between tourists' motivations and their likelihood of recommending the destination. This study explores changes in tourist motivations, satisfaction, and recommendation behaviours in a coastal destination during the summers of 2019 (pre-COVID-19) and 2020 (during the pandemic). Employing quantitative analysis with Confirmatory Factor Analysis and Structural Equation Modelling, data from 394 pre-pandemic and 468 pandemic-period visitors were analysed. The findings reveal a shift in the tourist profile during the pandemic, with a predominance of younger visitors from nearby regions. Despite heightened uncertainty, satisfaction and the intention to recommend remained relatively high, albeit lower than pre-pandemic levels. The study underscores the importance of adapting marketing and management strategies to evolving tourist preferences, emphasising safety and sustainability in response to global crises. These results highlight the need for resilient policies to ensure positive visitor experiences and long-term growth in coastal tourism, contributing to the broader understanding of how external disruptions impact destination dynamics and tourist behaviour.

Keywords: behaviour; motivation; satisfaction; recommendation; structural equation modelling; coastal destination; COVID-19; Platja d'Aro

1. Introduction

Tourism is a key driver of sustainable development in many regions but is highly vulnerable to health crises and natural disasters, even those of smaller scale [1,2]. Studies highlight how events such as terrorism, earthquakes, floods, and pandemics significantly impact the sector, creating uncertainty in markets [3,4]. The COVID-19 pandemic reconfigured the perception of these crises, prioritising protection and resilience in tourist destinations [5,6].

In response to these challenges, current strategies focus on strengthening response and recovery capacities to mitigate future disasters [7,8]. These efforts include improvements in infrastructure, the involvement of local communities, and a proactive approach to prevention [9,10]. Furthermore, the pandemic underscored the importance of understanding tourist behaviour during crises and identifying the most vulnerable sectors [11]. Effective information management is essential to developing mitigation strategies and accelerating recovery. Cases such as the attacks in Paris and earthquakes in Japan demonstrate the importance of reliable information and agile response plans in restoring traveller confidence and reviving local economies [12,13]. On the other hand, tourist satisfaction has been extensively studied, particularly in relation to the intention to recommend a destination [14–16] and the likelihood of returning in the future [17–19]. Motivations vary among tourists and studies, with the common distinction between internal ("push", such as relaxation) [20,21] and external ("pull", such as the destination's attractions) [22,23].

The aim of this study is twofold. Firstly, it seeks to identify the influence of tourist motivations on destination satisfaction and its effect on recommending the destination. Secondly, it aims to compare these effects across two time periods: one prior to the COVID-19 pandemic (summer 2019) and another during the pandemic (summer 2020), specifically a few months after the pandemic was officially declared. This study focuses on Platja d'Aro, a coastal tourist destination located on the Costa Brava in the northeast of Spain. The research adopts a quantitative methodology, using Multiple Group Structural Equation Modelling (MGSEM) to compare the two periods of interest (2019 pre-pandemic and 2020 during the pandemic) and to analyse the relationship among motivation, satisfaction and recommendation. Data were collected through surveys conducted in 2019 (pre-pandemic) and 2020 (during the pandemic), with a total of 862 respondents.

The article is structured as follows: firstly, the theoretical framework on tourist motivation, satisfaction, and recommendation is introduced, alongside the presentation of the estimated model and relevant COVID-19 pandemic studies. This is followed by an explanation of the survey design, sampling methods, and analytical approach. Results are then presented and compared between the pre-COVID-19 and pandemic periods. Finally, the conclusions and implications are discussed.

2. Literature Review

The travel restrictions and public health measures imposed by the pandemic led to a historic decline in global tourism demand, severely impacting destinations dependent on this sector and exposing their lack of preparedness [24]. Mobility restrictions shifted tourist flows to perceived "safe" areas, such as coastal destinations leveraging open spaces to attract visitors [25,26]. Understanding tourist motivations, both internal and external, became crucial, particularly as safety and health emerged as key factors [27,28]. Satisfaction, linked to the quality of the experience and the fulfilment of expectations, significantly influences loyalty and destination recommendations, particularly in coastal settings, becoming an essential element for post-pandemic economic recovery and the sustainable development of tourism [29,30].

2.1. COVID-19 and Tourism

The COVID-19 pandemic triggered an unprecedented crisis across various aspects of global society, with the tourism sector being one of the most severely impacted [31]. One of the primary effects of the pandemic was the halt in international mobility due to government restrictions [5]. This disproportionately affected destinations reliant on international tourism, particularly those focused on mass tourism, such as beaches, islands, and urban centres [7,32]. The crisis exposed the limited resilience of the sector and the inadequacy of recovery plans, leading to reactive and unsustainable strategies [10].

In this context, the pandemic altered tourists' perceptions and behaviours, who prioritised destinations with better healthcare infrastructure and stricter hygiene policies [33,34]. The perception of health risks became a decisive factor in destination selection. Consequently, new demands emerged, focusing on less crowded destinations, with greater proximity to nature and an emphasis on sustainability [35].

Governments, in turn, responded by promoting public-private collaborations to facilitate recovery and adaptation to new demands [6,36]. In Macao, for example, these alliances supported product innovation and financial assistance [37], while in Japan, trust in governance increased visitor loyalty and destination recommendations [18]. The pandemic drove the fast growth of Smart Tourist Destinations (STDs) to rebuild tourist confidence. Digital tools such as health certificates and real-time visitor flow management became critical, along with social media platforms to maintain engagement and promote safety [38].

2.2. Motivation

Motivation is a fundamental element in a tourist's decision-making process when choosing a destination, and is therefore a key topic in tourism research, as it plays a crucial role in understanding tourist behaviour and improving satisfaction [27]. There is a widespread idea that motivation is defined as a set of forces that stimulate individual behaviour to satisfy needs and wants through different appropriate activities [23], which arise from an inconsistency between a desired and an existing condition [39]. Since motivation is one of the main indicators of tourists' behaviour which influences their preferences and expectations, its study allows to recognise the reasons why the traveller is mobilised for the development of the tourist activity [40]. According to Correia et al. [41], a tourist's motivation can be associated with various aspects, such as the quest for unique experiences, the desire to relax and escape from the daily routine, the need to explore new places, or curiosity about discovering other cultures. It is commonly considered that Tourists' travel motivations are relevant since they are not only towards certain behaviours, but also useful to create criteria by which tourists will evaluate their experience at the destination [42].

The push-pull concept has been one of the most widely used approaches to explain tourists' motivations [6,20,43], their satisfaction [44] and destination choice [45,46]. This concept particularly suggests that push factors refer to internal elements (intrinsic motivators), which are related to the decision to travel [47,48], while pull factors (destination attributes) are destination characteristics that attract travellers to choose a particular destination [23].

In the case of coastal destinations, Orams and Lück [49] state that recreational motivation of tourist in coastal areas is continuously growing, making them particularly interesting for research. For Yoon and Uysal [50], there are "push" motivational factors, understood as internal forces related to tourists' desires, such as relaxation, achievement, family togetherness, safety/fun. Attraction" motivational factors were also identified, which are external forces related to destination attributes; these factors are: destination size and reliable (pleasant) climate, cleanliness and shopping, nightlife and local cuisine. In this sense, Koutra and Karyopouli [51] suggested that the geographical and climatological characteristics of a destination such as climate, sun or sea are relevant in tourist motivation, hence seasonality has a high incidence on visits during specific time periods.

2.3. Satisfaction

Satisfaction is fundamental in tourism planning as it influences destination choice, product consumption, loyalty, and the intention to recommend [50]. This multidimensional construct reflects visitors' subjective evaluation, influenced by emotional, cognitive, and contextual factors [52]. Regalado-Pezúa et al. [53] describe satisfaction as an emotional response resulting from the comparison between tourists' prior expectations and their lived experience, encompassing both tangible and intangible aspects. Therefore, understanding tourist satisfaction is a fundamental parameter for assessing the performance of destination products and services [23].

Perceived value is one of the main determinants of satisfaction, as it contributes significantly to the construction of the tourism image. This value is conceptualised as a combination of emotional, functional, economic, and social benefits associated with the tourist experience [54]. In coastal destinations, factors such as the conservation of the natural environment, the quality of infrastructure, and staff attention have a significant impact on visitor satisfaction [55]. When the attributes of a destination meet tourists' needs and desires, a pleasant experience is created, fostering intentions to recommend and revisit the destination [56].

Satisfaction also plays a mediating role in the construction of a destination image, which integrates cognitive and affective dimensions [57]. The cognitive dimension is associated with knowledge and beliefs about the destination, while the affective dimension reflects the emotions and feelings it evokes [53]. Additionally, trust in the destination is a critical factor that strengthens satisfaction and loyalty. This trust is built upon perceptions of safety, service quality, and the authenticity of the tourism experiences offered [54,55]. This element is positively correlated with tourist satisfaction, making it a key indicator for assessing the quality and attributes of a destination [35].

Furthermore, recent studies have demonstrated that marketing strategies integrating specific attributes and the authenticity of each destination - such as its natural, cultural, and recreational offerings, alongside service availability - significantly influence perceptions of satisfaction [46,58]. Wang et al. [59] assert that tourists tend to choose destinations that optimally meet their needs and offer differentiated benefits. Satisfaction levels are based on expectations that, in turn, shape tourists' motivations [60]. When these expectations are met, tourists are likely to consider their experience satisfactory and exhibit stronger intentions to return [61]. Finally, in determining a tourist's level of satisfaction, a comparison is made between the quality of the visited attraction and the motivation behind the trip [56].

2.4. Recommendation

Recommendations play a crucial role in the development of the tourism industry [62]. Within the context of coastal tourism, the behavioural intentions of visitors, manifested in the likelihood of revisiting a destination or recommending it to others, stand as key indicators of customer loyalty in the sector [17]. These intentions can be influenced by various factors, including the perceived attractiveness of the destination, perceived quality, motivations, and visitor satisfaction [23,54]. According to Carvache-Franco et al. [56], motivations related to "escape and novelty" are significant predictors for recommendation in coastal tourist destinations.

In this context, segmenting tourists based on their motivations reveals a variety of interests, such as learning and experiencing coastal life, enjoying nature, and participating in water sports, all of which influence satisfaction and loyalty towards the destination [63]. This implies that a segmented approach in tourism management can be effective in meeting the specific needs of different tourist groups and achieving tourist satisfaction [35,57]. Consequently, a satisfactory experience at a tourist destination not only improves the image and quality of service but also leads to positive future behaviour, such as a greater willingness to recommend the destination to others [23,64].

Another essential aspect in the recommendation of coastal destinations is the perception of the destination's image and its relationship with tourist loyalty. Carvache-Franco et al. [63] note that factors such as "Personal Attention" and "Tourist Infrastructure" are essential in forming a positive image and fostering loyalty towards the destination. While the perception of the destination's image is often measured in an objective or subjective manner, it constitutes a multidimensional construct that encompasses various factors, from brand creation to the types of products, services, interactions with local populations, and activities offered at the destinations [52,65].

In relation to the destination's image, it is essential to consider the influence of tourists' perceptions of environmental impact and the management of tourist overload, as environmentally responsible behaviour of tourists in coastal destinations is increasingly relevant [46]. Panwanitdumrong and Chen [66] highlight that the implementation of sustainable practices, especially in coastal destinations, is key not only in preventing and mitigating environmental problems such as marine litter but also in enhancing the destination's image and the intention to recommend it. This means that the perceived adaptation of the destination to the challenges of mass tourism is also essential in maintaining the quality of the tourist experience and promoting positive recommendations at the destination [16,67,68].

2.5. Relationship Among Tourist Motivation, Satisfaction and Recommendation

An important research interest in tourism is to know which the reasons tourists are to travel to a certain destination, it means, which are their needs to fulfil during their stay, and its relationship with their satisfaction [28,62]. This relationship has been widely studied; however, still contrary results are found in the investigation [20,45,63,69–71]. The success of destination marketing is mainly based on finding the relationship between tourist motivation, satisfaction and recommendation to a touristic destination [61]. Satisfaction has been shown to have a positive influence on tourist loyalty and subsequent recommendation of the destination [20]. For several authors, people travel because they are "pushed" to make travel decisions based on their interests and "attracted" by destination



attributes [21,22,48]. Thus, satisfaction based on tourists' motivation to travel contributes to destination recommendation [72].

Tourist satisfaction is a key indicator of the likelihood of recommending a destination, as a positive experience encourages other travellers to visit [73]. Conversely, dissatisfaction reduces this likelihood and negatively influences destination choice [19,59]. This underscores the causal relationship between recommendation, motivation, and satisfaction, where satisfied tourists are more inclined to recommend the destination [23,53].

The relationship between motivation and satisfaction has been examined through various frameworks. Push and pull factors are a common classification [19,44,74–76], while other studies focus on individual motivations [6,14,16,45]. Albayrak and Caber [20] propose three perspectives: (1) motivation as the sole determinant of satisfaction, highlighting factors such as escape and cultural interest [77,78]; (2) motivation combined with additional variables, such as destination image, which indirectly influences satisfaction [14,79]; and (3) employing motivational factors to assess satisfaction at the attribute level, with elements like relaxation, attractiveness, and socialising having a significant impact [28,80].

Destination quality, including attributes, activities, and services, is also a strong predictor of satisfaction and loyalty [81]. High satisfaction fosters loyalty, recommendations, and repeat visits, underscoring its importance in shaping tourists' positive intentions [19,59]. According to Ferreira da Silva et al. [82], previous and on-site experience directly influences the cognitive image of the destination, affecting attributes such as scenic beauty, gastronomy, and natural heritage, while the affective image shows less variability among groups. Visitors with greater experience have a more favourable perception of the destination and a higher intention to recommend and return, confirming the positive relationship between familiarity, destination perception, and loyalty [83,84].

Tourist recommendations are regarded as significant sources of information that allow potential visitors to evaluate the attributes and quality of a tourist destination. In this context, Prayag et al. [15] methodologically used Structural Equation Modelling to conclude that there is an interdependent relationship between the perception of the destination's image and tourist satisfaction, as well as between the destination's image and its loyalty, which directly affects the intention to recommend that destination. Similarly, Huang et al. [14] used a structural equation model to investigate how motivation, satisfaction, and perceived value affect tourist recommendations, finding that both perceived value and satisfaction have a significant influence on tourist recommendations. Santoso [85] explored the theoretical and empirical connections between the destination image, tourist motivation, satisfaction, and the intention to visit using Structural Equation Modelling analysis. The results concluded that the quality, value, and satisfaction with the destination have a direct and positive impact on the intention to recommend a visit.

2.6. Hypotheses

Based on the theories and findings of previous authors, there is a need to understand whether a disruptive context, such as the COVID-19 pandemic, has impacted motivation, satisfaction, and the likelihood of recommending the destination. In this context, the following hypotheses are proposed:

H1: There is a significant positive relationship between tourists' motivations to visit Platja d'Aro and their level of satisfaction with the tourist experience.

- **H1a:** Previously to COVID-19 period, tourists' motivations to visit Platja d'Aro have a positive relationship with their overall satisfaction during the stay.
- **H1b:** During COVID -19 pandemic, despite travel restrictions and health concerns, there is a positive relationship between tourists' motivations and their satisfaction with the experience in Platja d'Aro.

H2: There is a significant positive relationship between the satisfaction of tourists in Platja d'Aro and their willingness to recommend the destination to friends and family.

- **H2a:** Previously to COVID-19 period, the level of satisfaction of tourists with their visit to Platja d'Aro directly influences their likelihood of recommending the destination to friends and family.
- **H2b:** During COVID-19 pandemic, despite the restrictions and changes in the tourist experience, the satisfaction of visitors continues to be a key predictor of their willingness to recommend Platja d'Aro to friends and family.

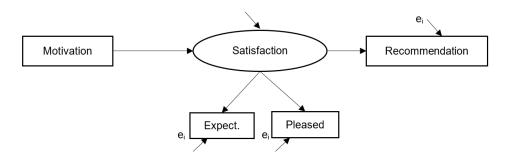


Figure 1. The model and the hypotheses specified. The squares represent indicators, the circle represents the construct (latent variable of tourism satisfaction), and the random measurement error for the responses is represented by e_i.

3. Materials and Methods

In this section the place of study is presented with the main touristic figures of the destination. Methodologically, the questionnaire and the operationalization of the questions are explained. Also, sampling, data collection, and the method of analysis are shown.

3.1. Tourist Destination

Platja d'Aro is a municipality located in the Baix Empordà region of Catalonia, along the Costa Brava, approximately 30 km from Girona and 100 km from Barcelona. Its strategic location and excellent connectivity via road networks and public transport make it an attractive year-round destination for leisure and cultural tourism [86].

Demographically, the municipality's population has grown significantly, increasing from 5,785 inhabitants in 1998 to 12,773 in 2024 [86]. Additionally, the full-time equivalent annual seasonal population reaches 9,328 inhabitants, 73% higher than the resident population (ETCA population/resident population), highlighting the region's strong dependence on tourism [86].

Tourism is a major economic driver, supporting local employment and business activity. Events like "La Santa Market" attract hundreds of thousands of visitors, with the 2024 edition generating €31.8 million in economic impact [87]. Furthermore, the destination holds cultural significance, with the Castell de Benedormiens standing out as an important historical monument that underscores the area's heritage, in contrast to the modern coastal resorts [87]. Platja d'Aro boasts a diverse tourism infrastructure, including 32 hotels with 5,111 beds, 5 campsites with a capacity for 10,422 campers, and one rural tourism establishment with 9 beds, expanding its offerings to nature tourism and rural getaways [86].

3.2. Questionnaire Design and Operationalisation

The questionnaire was designed and agreed together with the city council and the tourist office. The questions used in this study are the tourist profile (gender, age and nationality), tourist motivations, tourist satisfaction and recommendation to family and friends.

Tourist satisfaction was measured by indicators. The specific questions were "The place satisfies my expectations" and "I am pleased with my decision" in a 5-point Likert scale from 1 (strongly disagree) to 5 (strongly agree). Recommendation was asked in a 11-point Likert scale, as "To what extent will you recommend this destination to your friends and relatives? (Where 0 was "not recommended" and 10 was "highly recommended")".

In order to identify the motivations or reason tourists choose this particular destination, the following ten motivations were asked in a binary scale: 1) To enjoy sun and beach; 2) To do water activities; 3) To do sport activities (hiking, cycling); 4) To enjoy gastronomy; 5) To discover new places; 6) To explore historical and cultural heritage; 7) To enjoy shopping facilities; 8) Good value for money; 9) To enjoy nature; and 10) To take a rest and relax.

3.3. Sampling and Data Collection

Sampling was carried out during summer high season, in this case during August 2019 and July and August 2020, during pandemic COVID-19. Data were randomly collected throughout the days of the week (weekdays and weekends), as well as at different times of the day and in diverse selected spaces in the municipality, this ensures a representative sample of the tourism demand. Therefore, the Passeig Marítim was selected due to the high influx of beach visitors. The Eix Comercial was chosen for its role as a central axis of the city, characterised by significant commercial activity and a wide range of tourist services. Finally, the Parc d'Aro was selected for being a prominent shopping and leisure centre, attracting a large number of visitors (see Figure 2).

Data collection was carried out through in-site by interviewers, who used a tabled device to enter the data. This data collection method allowed to send each completed survey automatically to a server. This procedure helped to reduce the number of errors compared with traditional data collection with paper and pencil, as well as to be able to carry out periodic controls during data collection process. Specially in 2020, during COVID-19, the fact of not using paper and pencil helped to maintain the security distances and protocols for the pandemic Final sample size collected were 862 respondents, divided into summer 2019 (394 responses) and summer 2020 (468 responses), during COVID-19.

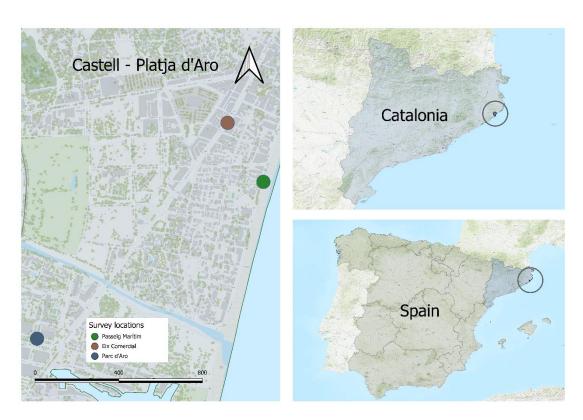


Figure 2. Map of Castell-Platja d'Aro.

3.4. Method

As two years of comparison are involved, a first method of analysis will be Multiple Group Structural Equation Modelling (MGSEM) [88–92]. This permits to evaluate the latent construct of satisfaction and its relationship with recommendation, as well as the effect of each motivation

typology on the tourist satisfaction in 2019 (pre-COVID-19) and 2020 (during COVID-19). When comparison among groups is of interest for a latent variable, satisfaction construct in this study, measurement invariance among the groups should be established. In this article, metric measurement invariance which requires equal loadings for each group is analysed; if invariance holds, it permits relationships comparison among variables [92]. Mplus 7 [93] is used for those analyses.

Multiple Group Confirmatory Factor Analysis [88,90–92] is generally used for cross-cultural comparison in order to test if a latent variable of interest is comparable across groups, countries and/or years, taking measurement invariance into account. In the case that invariance holds, relationships and/or latent means of the constructs can be compared across groups (countries and/or time periods).

4. Results

In this section is first described the sample profile, followed by the pre and during pandemic models of Figure 1 on motivation, satisfaction and recommendation. In order to determine the change between the two periods, pre and during pandemic models will be compared.

4.1. Sample Description

Table 1 shows the distribution of the sample profile for the pre-COVID-19 pandemic and during COVID-19 at the destination and their demographic characteristics. The data show a similar proportion of men and women in 2019, with an increase of the proportion of men in 2020. The mean age in 2019 was 41.0 (sd=13.5) while in 2020 was 38.1 (sd=15.4), showing more younger visitors, in average, during the pandemic year 2020. Visitors with 34 or less years increase during the pandemic (46.1%) compared with the pre-pandemic (33.4%) in the age distribution of the visitors.

Table 1. Characteristics of the sample profile.

	2019 (N=394)	(%)	2020 (N=468)	(%)
Gender				
Man	190	48.2	255	54.5
Woman	204	51.8	213	45.5
Total	394	100.0	468	100.0
Age				
24 or less	53	13.9	119	25.6
25-34 years	74	19.5	95	20.5
35-44 years	99	26.1	92	19.8
45-54 years	92	24.2	82	17.7
55-64 years	39	10.3	46	9.9
65 and over	23	6.1	30	9.5
Total	380	100.0	464	100.0
Min	16		16	
Max	80		81	
Average	41		38.1	
SD	13.5		15.4	
Origin				
Catalonia	169	43.4	262	57.7
France	86	22.1	72	15.9
Rest of Spain	30	7.7	37	8.1
Netherlands	30	7.7	22	4.8
UK	16	4.1	11	2.2
Belgium	14	3.6	12	2.6
Germany	11	2.8	12	2.6
Russia	10	2.6	15	3.3
Rest of Europe	11	2.8	20	2.2
Rest of the world	12	3.1	2	0.4
Total	389	100.0	454	100.0

Tourists are mainly from the region of Catalonia, especially during the 2020, due to worldwide restrictions due to the COVID-19 pandemic. Followed by French tourist due to the proximity, and the tourists from the rest of Spain. As expected, the traditional tourism markets for the destination, such as The Netherlands, UK, Belgium or Germany also reduced its proportion in the total of visitors. In sum, during the pandemic in 2020, tourists at the destination were younger and traveling from closer destinations than the ones in 2019.

Table 2 shows the variables motivation, satisfaction and recommendation to friends and family which were used to estimate the structural model from Figure 1. The table shows the averages for satisfaction (out of 5 points) and recommendation (out of 10 points), and the percentage of agreement with each pull and push motivation. All results are shown for 2019 and 2020.

Descriptive statistics show a high level of satisfaction and recommendation in both periods; even with the uncertain situation in 2020 the satisfaction with the expectation was maintained. Concerning tourism motivations, visitors during the pandemic COVID-19, in 2020, had higher levels, which can be related with that with the pandemic, they have clearer motivation to visit the destination.

Table 2. Selected characteristics of the sample profile.

	Factor	2019	2020
Motivations			
1. To enjoy sun and beach	Pull	93.6%	86.6%
2. To do water activities	Push	58.8%	76.2%
3. To do sport activities	Push	48.6%	62.8%
4. To enjoy gastronomy	Push	48.8%	74.5%
5. To discover new places	Push	44.5%	72.3%
6. To explore heritage	Push	35.5%	67.2%
7. Good value for money	Pull	34.5%	76.8%
8. To take a rest and relax	Push	73.9%	80.6%
9. To enjoy nature	Push	63.4%	74.7%
10. To enjoy shopping	Push	50.4%	70.4%
Satisfaction			_
I am pleased with my decision		4.51	4.04
The place satisfies my expectations		4.61	4.07
Recommendation			
Recommendation to friends and relatives		8.48	7.80

4.2. Pre-COVID-19 Pandemic and Pandemic Models' Comparison

Table 3 shows the fit measures for the model from Figure 1, for the different motivations. Maximum Likelihood Robust (MLR) estimator was used for each model estimated.

Table 3. Fit measures.

	χ^2	df.	P	CFI	TLI	RMSEA	SRMR
Metric Invariance							
Model 1. To enjoy sun & beach	7.700	6	.261	.996	.992	. 026 (CI 90%: .000, .071)	.024
Model 2. To do water activities	20.521	6	.002	.969	.938	. 075 (CI 90%: .041, .104)	.034
Model 3. To do sport activities	18.107	6	.006	.975	.950	. 068 (CI 90%: .034, .106)	.036
Model 4. To enjoy gastronomy	9.046	6	.171	.993	.987	. 034 (CI 90%: .000, .058)	.031
Model 5. To discover new places	9.815	6	.133	.992	.983	. 038 (CI 90%: .000, .080)	.032
Model 6. To explore heritage	13.428	6	.037	.984	.968	. 054 (CI 90%: .013, .093)	.031
Model 7. Good value for money	11.747	6	.068	.988	.976	. 047 (CI 90%: .000, .087)	.036
Model 8. To take a rest and relax	5.597	6	.470	.999	.999	. 000 (CI 90%: .000, .060)	.002
Model 9. To enjoy nature	6.876	6	.332	.998	.996	. 018 (CI 90%: .000, .067)	.021
Model 10. To enjoy shopping	11.199	6	.082	.989	.978	. 045 (CI 90%: .000, .085)	.028

The following goodness-of-fit measures were used for the model fit: standardised root mean square residual (SRMR), and root mean square error of approximation (RMSEA) measures. SRMR values of 0.08 or lower [94] and RMSEA values of 0.06 or lower indicate acceptable fit [95]. The comparative fit index (CFI) and Tucker-Lewis index (TLI) are incremental fit indices used to calculate improvements over competing models. Values higher than 0.90 for these two indices are an indicator of acceptable model fit [94]. Therefore, the different estimated models present an acceptable fit. Thus, metric measurement invariance [92] for the latent variable on satisfaction is obtained, which means that relations can be interpreted between pre-covid and during pandemic periods.

Results of the structural model relationships in Figure 1 are shown in Table 4. Relations between motivation and tourist satisfaction (Table 4a) -which corresponds to H1a and H1b-, and between satisfaction and recommendations (Table 4b) -which corresponds to H2a and H2b- are shown previously and during COVID-19 period.

Relations between the motivations and the tourist satisfaction (H1a and H1b) are different depending on the motivation and the period analysed, which also makes differences. In any case, the motivations that have statistically significant effect on tourist motivation are all of them positive relationships. Specifically, gastronomic, and cultural heritage exploration are not statistically significant on tourist satisfaction for none of the periods. Thus, previously and during pandemic those motivations have no effect on the tourist satisfaction.

Motivations concerning to water activities, discovering new places and good value for money had a statistically significant effect on tourist motivation only in pre-pandemic period. However, during COVID-19 period, these motivations had not significant effect on the level of tourist satisfaction. In the other side, sport activities had only effect on tourist satisfaction during summer 2020, COVID-19 period.

Four motivations, sun and beach, relax, nature and shopping have a statistically significant effect on tourist satisfaction in both periods. Comparing the effects between periods, unstandardized estimates are used, it is clearly showed that those effects were stronger during 2020, the pandemic period.

Concerning the relation between tourist satisfaction on recommendation (H2a and H2b) to friends and family, for both 2019 and 2020 periods, there is a positive statistically significant effect of satisfaction on recommendation, which represent that the more satisfied tourists are the more they tend to recommend the destination for friends and family. Such effects are higher in pre-pandemic, 2019, than during the pandemic, in 2020.

Summarizing, the statistically significant effects of motivations on satisfaction are higher in 2020, while the effects of satisfaction on recommendation to friends and family are higher in the 2019 period. Thus, the effects of motivations on satisfaction became stronger during the pandemic period, which can be relevant result for destination management organizations (DMO) in order to consider future tourism policies.

Table 4a. Unstandardised coefficients of the model.

Motivation → satisfaction				
	2019	2020	Sig. effect	
Model 1. To enjoy sun and beach	.323**	.502***	2019 & 2020	
Model 2. To do water activities	.281***	.139	2019	
Model 3. To do sport activities	.062	.341***	2020	
Model 4. To enjoy gastronomy	.068	.174	-	
Model 5. To discover new places	.156**	.180	2019	
Model 6. To explore heritage	.103	.160	-	
Model 7. Good value for money	.377***	.207	2019	
Model 8. To take a rest and relax	.256**	.261*	2019 & 2020	
Model 9. To enjoy nature	.175**	.395***	2019 & 2020	
Model 10. To enjoy shopping	.182**	.362***	2019 & 2020	

^{***}p<.001; **p<.01;*p<.05.



Table 4b. Unstandardised coefficients of the model.

Satisfaction → recommendation			
	2019	2020	Sig. effect
Model 1. To enjoy sun and beach	1.100***	.873***	2019 & 2020
Model 2. To do water activities	1.103***	.846***	2019 & 2020
Model 3. To do sport activities	1.105***	.860***	2019 & 2020
Model 4. To enjoy gastronomy	1.106***	.869***	2019 & 2020
Model 5. To discover new places	1.106***	.860***	2019 & 2020
Model 6. To explore heritage	1.104***	.860***	2019 & 2020
Model 7. Good value for money	1.109***	.850***	2019 & 2020
Model 8. To take a rest and relax	1.101***	.864***	2019 & 2020
Model 9. To enjoy nature	1.101***	.869***	2019 & 2020
Model 10. To enjoy shopping	1.099***	.859***	2019 & 2020

^{***}p<.001; **p<.01;*p<.05.

5. Discussions and Conclusions

The analysis of tourists' motivations and satisfaction in Platja d'Aro, before and during the pandemic, revealed changes in the relationship between internal and external factors influencing their decisions. Before the pandemic, tourists prioritised recreational and cultural experiences, whereas during the pandemic, they placed greater emphasis on safety and personal well-being, reshaping their motivational dynamics and their connection to the tourism experience. Despite the shift in motivations, the fundamental link between satisfaction and the intention to recommend remained strong, albeit slightly weakened by the heightened perception of risk. This behaviour aligns with the "push and pull" theory, which highlights how internal factors (such as the desire for relaxation) and external factors (such as destination attractions) interact to shape the tourism experience, even in contexts of uncertainty [21].

Concerning to the relationship of tourists' motivations on satisfaction (hypotheses H1a and H1b), In the pre-pandemic period, results showed a strong correlation between specific motivations of tourists and their satisfaction. These findings are consistent with prior studies emphasising that satisfaction is profoundly influenced by the destination's ability to meet or exceed tourists' expectations [50]. This relationship is also consistent with the "push and pull" theory [75], according to which internal motivational 'push' factors (such as the search for relaxation or adventure) and 'pull' factors (attractive attributes of the destination) interact to shape the complete tourism experience. The satisfaction reflected in this pre-pandemic phase establishes that when visitors find that their motivations are adequately fulfilled, for example through recreational and cultural activities, they tend to report higher levels of overall satisfaction.

During the same period, tourists seeking sun and beach, water activities, and cuisine found their expectations well met, as evidenced by 93.6% of visitors motivated by enjoying the sun and beach, and 58.8% by water activities, supporting the theory that satisfaction is greater when there is a congruence between what tourists seek and what they find [20,43].

Hypothesis 1a is supported by most of the motivations. However, it is not supported by three specific motivations: sport activities, gastronomy, and heritage. Therefore, overall, Hypothesis 1a, relating to the pre-COVID-19 period, is partially supported.

During the pandemic, the motivations influencing satisfaction showed an adjustment towards activities perceived as safer, reflecting a shift in the 'push' factors influenced by a new context of safety and health restrictions. This phenomenon supports the proposal by Higgins-Desbiolles [96] who asserts that, in times of crisis, motivational factors can significantly change, leading to a higher valuation of aspects such as safety and personal well-being. Furthermore, this adjustment supports the theory of tourism demand elasticity in response to external factors [24], where it is observed that tourist motivations and expectations are highly susceptible to macro-environmental conditions.

The increase in the proportion of tourists motivated by activities perceived as safe, such as sports (from 48.6% to 62.8%), and a good value for money (from 34.5% to 76.8%), reflected an adjustment in preferences and expectations. This corroborates the theories of various researchers who assert that tourists can adapt their travel motivations in response to crises imposed by the environment [6,16,96].

Hypothesis 1b is supported by half of the motivations. However, it is not supported by the remaining motivations: water activities, gastronomy, discovering new places, heritage, and value for money. Therefore, overall, Hypothesis 1b, relating to the COVID-19 period, is partially supported.

Concerning to the effect of the tourist satisfaction on the intention to recommend the destination (hypotheses H2a and H2b), in the pre-pandemic period, the data revealed a strong relationship between visitor satisfaction and their willingness to recommend Platja d'Aro. Results support other studies [15,23]. Essentially, visitors who feel that their expectations have been exceeded, not only in terms of the destination's attractions but also in their interaction with it, tend to become more fervent promoters of the destination.

Similarly, recommendation scores were notably high (8.48 out of 10 points), indicating a strong preference to recommend the destination. This reinforces the theoretical framework that establish a direct relationship between tourist satisfaction and the likelihood of recommending a destination, confirming that previous expectations of visitors lead to high satisfaction and, consequently, a greater willingness to recommend the destination [53,63,64]. Thus, hypothesis 2a, related with the previous period of COVID-19, is fully supported by the structural model.

During the pandemic, although the relationship between satisfaction and recommendation persisted, a weakening in the intensity of this correlation was observed (7.8 out of 10 points). This situation can be interpreted through the prism of increased risk perception and uncertainty due to the global health crisis. The relevant literature suggests that, in times of crisis, psychological factors such as fear and uncertainty can significantly alter consumer behaviour patterns [24,97]. Moreover, the research by Higgins-Desbiolles [98] underscores how altered perceptions about safety can negatively affect tourists' willingness to recommend a destination, even if their personal experience was positive. This phenomenon can further be explained by the concept of "perceived risk", which has been shown to be a significant moderator in the relationship between customer satisfaction and loyalty in crisis contexts [19]. Concerns about health and safety during the pandemic could have elevated the perceived risk associated with traveling and, consequently, recommending travel to others.

Despite this slight reduction in tourists' intention to recommend the destination, the results still indicate that tourists were satisfied with the activities at Platja d'Aro, which was determinant for recommending the destination. This phenomenon is supported by recent research that ensures that, during periods of crisis, tourists value their satisfying experiences even more and may feel motivated to share these experiences as a form of support for the destination [64,96]. In short, the satisfaction and recommendation scores are proof of the resilience demonstrated by the tourism sector and the ability of Platja d'Aro to maintain a positive image despite adversities, through strategies oriented towards crisis management and tourism recovery [11].

Thus, hypothesis 2b, related with the COVID-19 period, is fully supported by the structural model.

Tourist motivation is a crucial subject for the development of effective destination management strategies and for enhancing tourist satisfaction. Understanding motivation involves distinguishing between "push" and "pull" factors, highlighting the complexity of this phenomenon, wherein both internal and external factors converge in the traveller's decision-making process [41,75]. The findings of the study reveal that motivations for visiting Platja d'Aro during the pandemic were more focused on activities perceived as safe, reflecting a shift in 'push' motivational factors towards a pursuit of personal well-being and safety. This is in line with the theories discussed in the literature review on tourist motivation in crisis contexts [16,27,45]. Professionals in the tourism industry can take advantage of this distinction to customise their offers and services to the needs and desires of tourists, all while capitalising on a destination's unique attributes [46,53].

The continuous growth of recreational activities in coastal areas and their attractiveness to tourists underline the importance of researching and understanding in depth the motivations that drive people to visit specific destinations [42]. Furthermore, studies on seasonality and its impact on traveller preferences are fundamental for effective tourism demand management [41,75]. In this regard, the dynamic interaction between motivations and destination attributes must be considered to develop more effective strategies within the tourism industry and promote sustainable destination growth [11].

Satisfaction, for its part, remains a strong predictor of recommendation, even in the midst of a pandemic, as it ensures the return of visitors or word-of-mouth diffusion of the destination. This study complements the existing literature by demonstrating that although the factors influencing tourist satisfaction may vary in response to external crises such as a pandemic, the fundamental relationship between motivation and satisfaction remains robust. This phenomenon is consistent with other studies [6,10,37]. Although academic literature mentions that some tourism dependent territories have begun to reactivate their activity with certain limitations [97], in the case of Platja d'Aro the reactivation has been progressive, and its policymakers considered certain strategies that benefited the tourist activity in 2020.

In that context, tourism destinations have adopted strategies to enhance their appeal and boost tourist confidence. The focus has shifted from increasing visitor numbers to ensuring a more comfortable experience with personalized services and safer activities [10]. Hotels and restaurants have implemented stringent sanitation measures, biosecurity protocols, social distancing policies, and reduced carrying capacities to improve safety [1]. In public spaces, social distancing measures have been enforced to prevent crowding in areas like squares, parks, and beaches [7]. Wakil et al. [99] highlight that some preventive behaviours to avoid infection may persist post-pandemic, influenced by individuals' risk perceptions. Consequently, researchers emphasise the importance of coordinated efforts between local stakeholders and governments during crises. Local stakeholders can foster visitor confidence through differentiation strategies, focusing on high-value services and knowledge integration rather than labour-intensive, low-cost offerings [36]. Simultaneously, government support is crucial for destination survival, particularly through policies that protect and promote tourism, especially in regions heavily reliant on tourism revenues for GDP [97].

5.1. Practical Implications

Several practical implications can be derived from the present study. Firstly, the motivations, preferences, and profiles of tourists differed between the pre-pandemic and pandemic periods. The pandemic resulted in an increase in younger and more local tourists (Catalonia), with a greater focus on activities perceived as safe. Therefore, public managers should direct their marketing campaigns towards these specific market segments, promoting outdoor and safe activities, and using digital media and social networks to reach younger audiences.

Secondly, the results concluded that it is important to focus on improving the visitor experience, as satisfaction continues to be a key predictor in the recommendation of the destination, regardless of the pandemic. Therefore, destinations must ensure that their tourist offerings meet visitors' expectations. In this context, it is vital to constantly analyse demand perceptions, train staff in various areas, and ensure that the infrastructure meets high standards of cleanliness and safety.

Thirdly, crisis management and resilience present challenges but also opportunities to adapt to environmental changes. Destinations must develop contingency plans to face future crises and continuously update their tourism management plans. It is also essential to foster collaboration between different levels of government and the business sector to provide a coordinated response to crises.

Fourthly, the results highlighted the importance of government intervention and support policies for the recovery of tourism activity. In this case, the creation of public policies, the establishment of regulatory frameworks, and the implementation of government support plans are crucial to overcoming crisis processes. Finally, based on this study, future research can be aimed

towards the governance as a central actor in the tourism reactivation in a destination, as the intervention of public managers have strong implications for the behaviour of residents and tourists.

Beyond the extensive research conducted, this study presents several limitations that underscore the need for further investigation. Firstly, as it was applied to a single coastal destination, the findings may lack generalisability. Consequently, it would be important to compare the results with those of other coastal destinations to identify common patterns or significant divergences in motivational and satisfaction dynamics. Secondly, the exclusive reliance on quantitative methods limits a deeper understanding of tourists' perceptions and emotions, aspects that could be enriched through qualitative approaches. Lastly, although the analysis spans two years, the surveys were conducted solely during the summer, potentially overlooking seasonal variations in tourist behaviour.

Based on these limitations, three future lines of research are proposed. First, the study should be extended to post-pandemic periods to determine whether the emerging tourist motivations persist or revert to pre-pandemic patterns. Second, qualitative approaches, such as in-depth interviews, should be incorporated to complement and deepen the findings. Finally, the role of governance as a central axis in tourism recovery should be explored, assessing how decisions made by public managers influence both residents' and tourists' behaviour, and their impact on the sustainability and competitiveness of destinations.

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Informed Consent Statement: This study is based on non-invasive social science research using anonymous structured questionnaires, conducted as part of a tourism demand analysis in Platja d'Aro before and during the COVID-19 pandemic. The study did not involve clinical procedures, biological samples, or experimentation on human subjects. Ethical principles were strictly followed throughout the study. All participants were informed that their participation was voluntary and anonymous. They were told they could withdraw at any time or choose not to answer any question. No identifiable personal data were collected or published.

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