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A competitive study of two tourism destinations through the application of conjoint analysis techniques: the case of the Canary Islands¹

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Resumen: La aspiración de conocer y corresponder las expectativas de los consumidores, supone un continuo objetivo en la gran mayoría de las empresas, así como un tema central de análisis y debate a lo largo y ancho de la literatura. Existe un amplio consenso sobre la importancia que la orientación al cliente tiene para la competitividad de las empresas actuales. Este hecho se acentúa aún más si cabe en las empresas del sector turístico. En este trabajo tratamos de profundizar en el conocimiento de las ventajas competitivas del sector hotelero de dos destinos turísticos a través del estudio de la utilidad que aportan a la demanda los diferentes productos ofertados. Mediante la aplicación de técnicas estadísticas de análisis conjunto y de simulación hemos obtenidos un modelo de aplicación en la toma de decisiones empresariales, y que permite reconocer no sólo el producto que, entre los ofertados, mayor valor aporta a la demanda de cada destino turístico sino la existencia de diferencias significativas entre destinos.

Palabras clave: Orientación al cliente; Ventaja competitiva; Productos hoteleros; Destino turístico; Análisis de conjunto

Abstract: The aspiration to know and to correspond to consumer expectations, supposes a continuous challenge that companies must confront and has become a central issue in an extant literature. There is ample agreement about the importance of consumer orientation for the competitiveness of companies. Businesses are faced with the need to satisfy customers today and to develop new products for the future. These requirements are accentuated in the tourist sector because they have a particular dependence on "tourist preferences". The aim of this paper is to contribute to this debate with the results of an analysis that seeks to deepen the knowledge of competitive advantages in the hotel sector of two tourism destinations by studying the utility that the different products offered provides to demand. By means of the application of the statistical techniques of conjoint analysis and simulation, we have obtained a model to apply to entrepreneurial decision-making that enables us to recognise the product that, among those supplied, most value provides to the demand of each tourism destination, as well as the observation of significant differences between those destinations.

Keywords: Customer orientation; Competitive advantage; Hotel products; Tourism destination; Conjoint analysis

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Introduction

Aspiring to discover and correspond to consumer expectations is an on-going challenge faced by many present-day firms in their search for competitiveness. This capacity to offer and increase value for the customer is a critical factor, which is accentuated even more in firms within the hotel sector, where customer loyalty shows dynamic and volatile characteristics that require continuous, in-depth study of their expectations, motivations and preferences.

Slater and Narver (1998²; 1999³) point out differences between market-orientation and customer orientation, distinguishing between those businesses whose activities are entirely directed towards current demands (customer-led), and those whose activities focus entirely upon the future (market-led). In this regard, Connor (1999)⁴ argues that firms are always in the shortand long-term at the same time as they must survive in the short-term to ensure a long-term, and that it is inappropriate to think in terms of choice between customer and market orientation. Both approaches seek to provide an strategic alignment of organizations with the external environment.

The heart of much of the strategic management literature engages to strive for competitive advantage. The essence of strategy entails an attempt by a firm to achieve and sustain competitive advantage over other firms. This is why different approaches have developed around the concept of competitive advantage within the field of strategic analysis. The "Strategy Theory" (Andrews, 1971; Ansoff, 1980, Selznick, 1957) is concerned with the distinctive competencies in strategic processes, particularly in their relationship with the generation of competitive advantages and competitiveness. From this perspective, the competitiveness of the company will depend on the way in which it adjusts its resources to environmental conditions and on the strengths and weaknesses that it shows in connection with competition (Wernerfelt, 1984; Rumelt, 1991; Hunt, 1995). (See Figure 1)

The traditional industry analysis approach points that there are two compo-

nents to distinguish in every competitive strategy: the structure of the industry in which the firm evolves and the position of the enterprise within the industry (Porter 1980). The resource-based view of the firm points to the firm's unique resources, core competencies, and dynamic capabilities in a rapidly changing market as the real justifications of the differences in results in the same activity (Hansen and Wernerfelt, 1989; Rumelt, 1991; Wernerfelt and Montgomery, 1988; Barney, 1991; Prahalad y Hamel, 1990; Teece et al., 1997). While resources are the source of a firm's capabilities, these are the main source of its competitive advantage. Core Competencies evolve over time as the firm adapts to new circumstances and opportunities. (See Figure 2).

Finally, the marketing concept says that a firm's purpose is to discover needs and wants in its target markets and to satisfy those needs more effectively and efficiently than competitors. What establishes a firm's competitive advantage, and has therefore become a critical factor for its long term success, is the ability to serve customers' present and future needs; it is the firm's awareness and fulfilment of customers' evolving needs that nurture and validate their ongoing relationship with the customer (Kandampully and Duddy, 1999:51). This is especially important in the hotel sector, where customer loyalty shows dynamic and volatile characteristics, which demands an on-going, in-depth study of their expectations.

The adjustment between supply and demand in the hotel sector increases in complexity owing to the fact that some components of what is perceived and expected by the customer as the product are not merely one but the combination of a variety of products, partly outside the hotel's control. The value of an accommodation service is also influenced by facilities and attractions offered by the tourism destination in which the hotel is located, which are a part of customer expectations and experiences. Therefore, the need arises for a systematic approach, which includes a group of interrelated elements where some properties of the system are additions of an individual nature, while others are holistic, a result of the relation between the parts (Oreja, 2000) (See Figure 3).

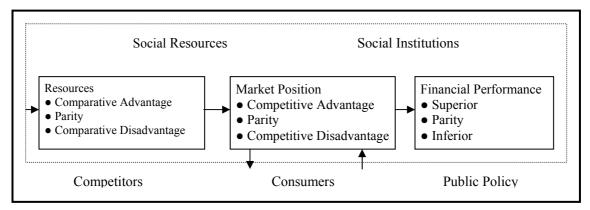


Figure 1. Schematic of the Resource-Advantage Theory of Competition Source: Adapted from Hunt(1995)

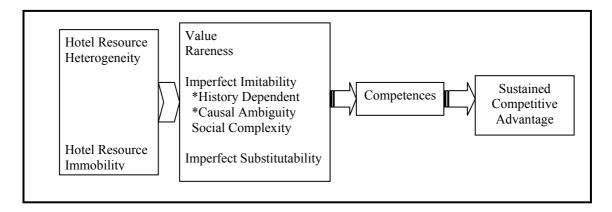


Figure 2. The Relationship between the resources and capacities of the firm and competitive advantage. *Source: Adapted from Barney (1991).*

The Hospitality sector in the Canary Islands

With just over 2,000 km², Tenerife is the largest of the Canary Islands and is internationally known as the island of eternal spring, owing to its climate of mild all-year-round temperatures, especially in the coastal area where the tourist resorts are located. The island economy is fundamentally based on the services sector, and tourism is considered to be the driving force behind the economy. The Tourism contribute of over 76.7% the Gross Added Value (GVA) in 1996 in the Canary Islands. There is a fixed population of around 730,000 inhabitants, but Tenerife receives a large number of tour-

ists every year: in the year 2000, there were 4,730,425 visitors (see Graph 1).

Throughout its history, Tenerife has been a destination for travellers and visitors, but it was mainly in the 1960's that tourism began to play a significant economic and quantitative role.

At first, tourism was located mainly in the north of the island (Puerto de la Cruz), but in the 1980's the south of the island gained ground with the development of the necessary infrastructures (see Graph 2).

More recently, Tenerife has been confronted with increased competitiveness in tourism products and destinations, a

change in visitor expectations and habits, along with the concentration and restructuring processes to which the tourism business sector is being subjected. In particular within the hotel industry, the need has arisen for the analysis and awareness

of these trends, in order to adequately anticipate and respond to them. This may lead to an eventual reorientation of policies undertaken by both public and private institutions in relation to tourism development and management.

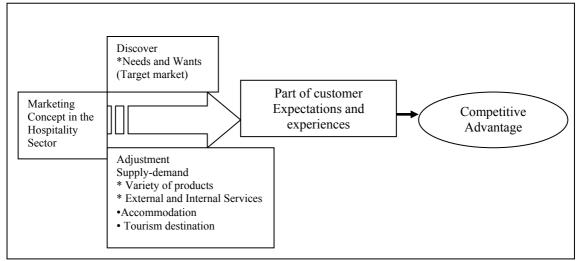
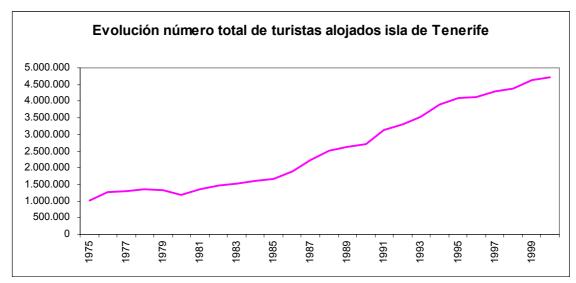
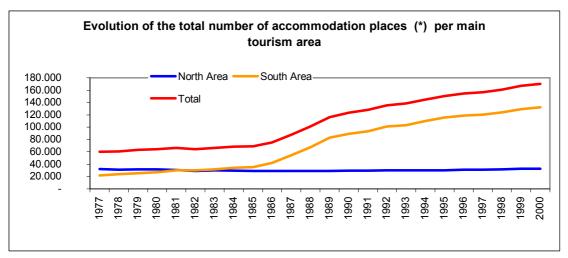


Figure 3. The Marketing Concept and his purpose to discover needs and wants in its target markets and to satisfy those needs more effectively and efficiently than competitors in the Hospitality Sector. *Source: Own elaboration*



GRAPH 1. Evolution of total number of tourists accommodated on the island of Tenerife. Source: Cabildo Insular de Tenerife (Tenerife Island Council). Receptive Tourism Statistics.

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GRAPH 2. North zone South zone Island Total. Source: Cabildo Insular de Tenerife (Tenerife Island Council). Receptive Tourism Statistics. (*) The island is divided into 4 tourism zones.

Research Methodology

This study applied a model of competitive analysis for tourism destinations and, in particular, for the hotel sector of these destinations, developed from the work of Oreja, 1998 and 2000; Melchior, Ramos and Jiménez, 2000; and Melchior, Parra and Ramos, 2000.

The research objective was to establish a model based on techniques of multivariant analysis with which to simulate the dynamic relations that occur between supply and demand in the hotel sector. The aim is to recognise and predict the product that contributes most utility to the demand of each destination analysed, and to discover the existence of significant differences in the competitive position of these tourist destinations, North zone and South zone of Tenerife. This study has been applied to two welldifferentiated tourism destinations on the island of Tenerife (Oreja, 1995; Melchior and Gutiérrez, 1995; Melchior, 1998).

The research was guided by two hypotheses:

• Hypothesis no. 1: The conjoint analysis technique enables us to observe the competitiveness of tourism destinations by studying the fit between the product offered and demand expectations.

• Hypothesis no. 2: The analytical model proposed enables the utilities from the different hotel products to be distinguished, and, with that, the competitive differences between and within tourism destinations.

Methodology

In order to reach the objective put forward, we have used a group of statistical techniques denominated "Conjoint Analysis". This methodology allows us to calculate the structure of individual preferences or of a group of potential customers, bearing in mind that the consumer considers the product as a set of attributes (Green and Srinivasan, 1978). Hence, from the results, we can measure the extent to which the customer is prepared to sacrifice any of the attributes, in order to gain more benefits from another.

This methodology is applied by following a process that includes defining the problem to be solved, identification of the reference population, sample and questionnaire design, market simulation and conclusions.

THE MODEL: The model for the r_i response for the i-th card of a tourist is:

$$r_i = \beta_0 + \sum_{i=1}^p u_{jk_{ji}}$$

Where u_{jk} is the partial utility associated with the k_{ji} -th level of the j-th factor in the i-th card.

The competitive analysis was performed on two aggregation levels: first, the basic units for analysing the offer and, second, including the preferences and utilities experienced by demand in relation to the product received⁵.

COMPONENTS OF OFFER ANALYSIS:

- Accommodation and Services: This study is centred on the hotel offer on the island of Tenerife, the weight and distribution of which can be observed in Table 1. The island is statistically divided into four tourism areas, two of which are clearly outstanding (South zone and North zone) and which will be the object of our study.
- Price of the product/service: the study of prices is based on the price scale for restaurant services in a sample of hotels in Tenerife. The data is provided by the Cabildo Insular de Tenerife (Tenerife Island Council) and the Ministry of Tourism and Transport of the

- Government of the Canaries (see Table 2). Price classification is a result of the interquartilic intervals of the series of prices offered in Tenerife.
- External Services: The standard offered by these services has been done by applying an analysis of the principal components to the data provided by the Ministry of Tourism and Transport of the Government of the Canaries, concerning the number of bars, restaurants and cafeterias existing in the different boroughs of Tenerife. Table 3 shows a classification of those affected by this study.
- Holiday Environment: while the South zone under study offers an almost exclusively beach environment, the North zone is not typically associated with beach tourism, but has the attraction of a much more varied landscape.

Type of accommodation	Total Island (*)	North zone	South zone
5*	5.174	1.052	3.545
4*	40.563	12.799	27.634
3*	23.727	4.595	17.996
2*	1.911	699	357
1*	946	311	388
Total hotel places	72.321	19.456	49.920
Total non-hotel places	94.521	13.051	79.447

TABLE 1. Distribution of the hotel offer on the island of Tenerife. (*) Total 4 tourism areas. Source: *Cabildo Insular de Tenerife* (Tenerife Island Council). Receptive Tourism Statistics 2001. Places referring to 01/01/2001

Hotel Category	Breakfast Cost	Cost Half-board	Cost full board
1*	-	-	-
2*	Low	Low	Low
3*	Low	Low	Low
4*	High	High	High
5*	High	High	High

TABLE 2. Hotel prices according to category *Source: Cabildo Insular de Tenerife (Tenerife Island Council). Receptive Tourism Statistics 2001 and own elaboration.*

Borough	Area	No. bares	No. cafeterias	No. restaurants	Factorial score	External Services
LOS REALEJOS		146	12	63	-0,07166	full
LA OROTAVA	North	208	13	61	0,03823	full
PUERTO DE LA CRUZ		304	94	217	1,86372	full
ARONA		503	71	465	2,74385	full
ADEJE	South	217	68	308	1,67783	full
SANTIAGO DEL TEIDE		65	13	78	-0,13999	full

TABLE 3. External services in the different boroughs of the island of Tenerife. Source: ISTAC (2001). Chart: Own elaboration.

2001	Total island (*)	North zone	South zone
GERMANY	818.564	238.662	453.199
UNITED KINGDOM	1.548.065	93.668	1.496.196
SPAIN	1.026.009	478.979	343.736
ITALY	122.972	7.938	108.920
FRANCE	166.992	27.661	147.419
OTHER COUNTRIES	959.202	136.510	888.991
TOTAL	4.641.804	983.418	3.438.461

TABLE 4. Number of tourists per main nationality and tourism area. Source: Cabildo Insular de Tenerife (Tenerife Island Council). Receptive Tourism Statistics 2001

Nationality	Maximum estima-	No. Tourists	Sample Size	Months	Sample
	tion error	Sept 98-Aug 99		Dagamban	Size
		0.62.0=2	4.60	December	33
Spanish	±3.81%	963.073	160	April	49
				August	78
				December	45
British	±3.69%	1.531.775	144	April	45
				August	54
				December	67
German	±3.43%	712.559	171	April	62
				August	42
				December	24
French	±4.49%	174.523	121	April	58
				August	39
				December	30
Italian	±4.51%	115.972	115	April	34
				August	51
				December	44
Rest	±4.8%	100.1956	86	April	27
			1 1) 0	August	15

TABLE 5. Sample of tourists interviewed (technical card) Source: Own elaboration.

COMPONENTS OF DEMAND ANALY-SIS:

The reference population considered for this study is composed of tourists visiting the island of Tenerife. Table 4 shows the nationalities and areas studied.

Sample Design: the data collection process was undertaken with a sample of 797 tourists interviewed on their departure from the island, at the departure terminal of the Tenerife South International Airport (see Table 5).

The information collected through the survey included personal characteristics of the tourists interviewed and the product consumed, in addition to an ordered preference structure of the different op-

tions presented, ranging from 1 for the preferred option to 9 for the least preferred. The option design provided was the result of an orthogonal design based on the four factors considered as most determinant of the tourism product in Tenerife (see Table 6), with three levels for each.

These four factors are the result of applying a analysis of principal components to the 24 group characteristics considered by the Tenerife Island Council as representative of the products and services offered to tourists visiting the island (Jiménez and Ramos, 1995).

Variable	COMP1	COMP2	COMP3	COMP4	COMP5	Determining Factor	Eigenvalues	% va- riance
QUALITY ACCOMMODA- TION	0.79	0.06	0.15	0.08	0.10		3.607	15.029
ACCOMMODATION TREATMENT	0.75	0.31	0.06	0.05	0.02		3.607	15.029
FOOD QUALITY	0.69	-0.03	0.15	0.19	0.13	Accommodation and services	3.607	15.029
SERVICE ATTENTION	0.66	0.39	0.09	0.10	0.01		3.607	15.029
SATISFACTION/PRICES	0.63	0.20	0.38	0.13	0.15		3.607	15.029
OVERALL	0.61	0.34	0.13	0.29	0.15		3.607	15.029
SAFETY	0.40	0.67	0.12	-0.04	-0.05		2.992	12.466
LANDSCAPE	-0.02	0.65	0.05	0.21	0.08		2.992	12.466
TOWN PLANNING	0.15	0.64	0.12	0.41	0.10	Holiday envi- ronment	2.992	12.466
TRANQUILLITY	0.34	0.63	0.11	-0.12	-0.08		2.992	12.466
PUBLIC HYGIENE	0.20	0.61	0.13	0.10	-0.09		2.992	12.466
BEACH	0.04	0.43	0.18	0.36	0.17		2.992	12.466
INSTALLATION PRICES	0.05	0.23	0.76	0.17	0.07		2.868	11.948
BAR PRICES	0.02	0.12	0.76	0.25	0.06	Price	2.868	11.948
MEAL PRICES	0.27	0.03	0.72	0.14	0.08	Product	2.868	11.948
ACCOMMODATION PRICES	0.40	0.07	0.66	0.07	0.12	service	2.868	11.948
QUALITY TRANSPORT	0.10	0.32	0.33	0.29	0.05		2.868	11.948
NUMBER DISCOS	0.12	0.01	0.16	0.83	0.02		2.589	10.787
NUMBER BARS	0.15	0.13	0.14	0.81	0.07	External Servi- ces	2.589	10.787
QUALITY BARS	0.17	0.25	0.36	0.59	0.02		2.589	10.787
QUALITY INSTALLATIONS	0.24	0.31	0.37	0.43	0.07		2.589	10.787
CLIMATE	0.11	0.08	0.11	0.07	0.90		2.572	10.716
SUN	0.11	-0.08	0.07	0.05	0.88	Climatic conditions	2.572	10.716
TEMPERATURE	0.11	0.03	0.09	0.05	0.90		2.572	10.716

TABLE 6. Factors that determine the tourism product of Tenerife Source: Own elaboration

Kozak and Rimmington (1998) proposed a model grouping the most relevant characteristics of a tourism destination in the following components:

Attractions: environment, landscape, natural resources, climate, history, culture

- Facilities and services: accommodation, restaurants and bars, transport, complementary leisure, commerce, etc.
- Infrastructure: water, energy, communication networks, health, safety, road, airport and maritime infrastructure, etc.
- Hospitality: courtesy, willingness to lend aid and assistance, attending complaints, etc.
- Costs: quality/price ratio for accommodation, restaurants, transports, shops.

In its survey, the Tenerife Island Council identifies the components mentioned above through the twenty four variables shown in the first column in Table 6.

We should bear in mind that the relation between the variable and the different factors and their levels is explained by the following models (Ramos 1999): Table 7.

Results

Table 8 shows the estimations of the partial utilities of each type of the four factors considered most determinant.

Measuring the level of the goodness-offit reached with the estimated model and the confidence in the results obtained was done with Pearson's r coefficients and Kendall's τ .⁶ In both cases, significantly high correlation levels are reached between the data observed and the data derived from the estimated model. This can be understood as a high level of confidence in the inferences made from these models (see Table 9).

If we consider the factors as a whole, both the models obtained point to "accommodation and services" as being the most important for both tourism destinations, with a level of 34.84% and 37.75%, respectively, followed in second place by the factor "holiday environment", with 29.97% and 27.10%. In relation to the last two factors ("Price product/service" and "external services"), there are differences between both destinations (see Table 8 Importance box).

As for each of the factors and their types, the analysis produces the following results (see Table 8 Utilities box):

Holiday Environment: demand in the South zone shows a higher estimated preference for an exclusively beaching environment, as opposed to visitors to the North zone, who opt for a holiday environment of countryside and beach.

О	HOLIDAY ENVIRONMENT	DISCRETE FACTOR
О	Accommodation and services	Positive linear factor
0	Price of the product/service	Negative linear factor
О	External services	Positive linear factor

TABLE 7. Explanatory models of the relation between the different factors and their levels and the response variable. *Source: Own elaboration*.

Factor	Level	Uti	lity	Import	tance
		SOUTH	NORTH	SOUTH	NORTH
	Beach	0.5869	0.0728		
Haliday anyiranmant	Countryside and	0.3023	0.3474	29.67%	27.10 %
Holiday environment	Beach	-0.8893	- 0.4202	29.0770	27.10 70
	Countryside				
	1 Star	0.6459	0.7300		
Accommodation and	3 Stars	1.9377	2.1901	34.84%	37.75 %
Services	5 Stars	3.2295	3.6502	34.0470	37.73 70
	Coefficient	0.6459	0.7300		
	Low	0.2630	- 0.0399		
Price Product/Service	Medium	0.5260	- 0.0798	17.64%	17.13 %
File Floduct/Service	High	0.7890	- 0.1197	17.0470	17.13 70
	Coefficient	0.2630	- 0.0399		
	Minimum	0.2442	0.2770		
External Services	Regular	0.4884	0.5540	17.55%	17.84 %
External Services	Full	0.7326	0.8310	17.3370	17.04 70
	Coefficient	0.2442	0.2770		
Constant		2.0468	2.3357		

TABLE 8. Estimations of the partial utilities of each of the types of each of the four factors considered to be most determinant. *Source: Ramos (1999).*

South	Zone	North Zone		
Coefficient	Significance	Coefficient	Significance	
Pearson: 0.983	0.0000	Pearson: 0.975	0.0000	
Kendall: 0.833	0.0009	Kendall: 0.833	0.0009	

TABLE 9. Correlation between the data observed and the data derived from the estimated model *Source: Own elaboration.*

Accommodation and services: this factor shows a positive relation with the utility level reached by its types, so that the higher the category of accommodation and services, the higher the resulting utility. This increase in utility when passing from a lower to a higher level is observed to be more pronounced in the North zone.

Price of Product/Service: demand in the South zone reveals a positive relation between the price and utility variables achieved, in that the tourist is apparently willing to pay more for a product that provides better features. Contrary to this, visitors to the North zone are not apparently prepared to pay more and show a preference for lower prices.

External Services: this last factor shows a positive relation with the dependent variable utility in both tourist zones, so that there seems to be a preference for a higher standard of external services offered.

CONTRAST OF THE RESULTS

At this stage of the research, we decided to discover the level of significance of the estimations of the partial utilities corresponding to each attribute level. With this aim in mind, a variance analysis was performed that compared the four tourist areas found in Tenerife: Puerto de la Cruz, Las Américas-Los Cristianos, Fañabé-Puerto Santiago-Los Gigantes and Costa del Silencio-Ten Bel. The first destination is in the north, while the other three are located in the south.

All the variation sources were significant, while in zone 3 "Fañabé-Puerto Santiago-Los Gigantes" and "Costa del Silencio-Ten Bel", both the price and the external services do not appear to have a significant influence on the variation of the preferences of tourists staying in that area.

In other words, these two factors appear to have much less influence on the preference structure of tourists staying in the two areas mentioned.

	T	1				
Zone	Source	Sum of type III squared	Degrees of freedom	Quadratic average	Snedecor's F	Significance
	Corrected model	2302.75	8	287.84		0.00
	Intersection	47200.01	1	47200.01	8616.19	0.00
	Price	84.27	2	42.14		0.00
	Accommodation	1919.27	2	959.63	175.18	0.00
1	Surroundings	215.83	2	107.91	19.70	0.00
	Ext. Services.	83.39	2	41.69	7.61	0.00
	Error	10304.23	1881	5.48		
	Total	59807.00	1890			
	Corrected total	12606.99	1889			
	Corrected model	4551.19	8	568.90	104.37	0.00
	Intersection	92365.03	1	92365.03	16944.95	0.00
	Price	71.65	2	35.82	6.57	0.00
	Accommodation	3308.19	2	1654.09	303.45	0.00
2	Surroundings	957.28	2	478.64	87.81	0.00
	Ext. Services.	214.08	2	107.04	19.64	0.00
	Error	20113.78	3690	5.45		
	Total	117030.00	3699			
	Corrected total	24664.97	3698			
	Corrected model	1160.18	8	145.02	27.85	0.00
	Intersection	19115.00	1	19115.00	3670.71	0.00
	Price	8.80	2	4.40	0.85	0.43
	Accommodation	975.85	2	487.92	93.70	0.00
3	Surroundings	168.87	2	84.43	16.21	0.00
	Ext. Services.	6.66	2	3.33	0.64	0.53
	Error	3936.82	756	5.21		
	Total	24212.00	765			
	Corrected total	5097.00	764			
	Corrected model	474.66	8	59.33	10.91	0.00
	Intersection	9040.04	1	9040.04	1661.89	0.00
	Price	3.17	2	1.59	0.29	0.75
	Accommodation	358.11	2	179.05	32.92	0.00
4	Surroundings	104.77	2	52.39	9.63	0.00
	Ext. Services.	8.61	2	4.30	0.79	0.45
	Error	1909.30	351	5.44		
	Total	11424.00	360			
	Corrected total	2383.96	359			

Table 10.Level of significance of the estimations of the partial utilities corresponding to each attribute level. *Source: Own elaboration.*

SIMULATION: Below are the profiles that we have simulated by way of example for each of the zones studied (see Table 11):

Thus, in the case of the North zone, the estimated preference level for this type of offer is 0.3474+2.9201-0.1197+0.5540+2.3757=6.0775, which

represents an extremely high preference level, especially if compared with the range of scores where the highest value is 7.1643 and the lowest 2.8028. Nonetheless, owing to the fact that tourists staying in this zone showed a higher preference for lower prices, this simulation was

performed with a resulting utility level of 6.1573.

The simulation corresponding to the conditions of the South zone (see Table 10) shows an estimated preference level for this type of offer of 0.5869+2.5836+0.7890+0.7326+2.0468=6. 7389, which is extremely high, in a scoring range where the highest value is 7.3848 and the lowest 2.799. Satisfaction with the offer in this zone is higher than that registered in the North zone.

CONTRAST OF THE FULFILMENT OF TOURIST EXPECTATIONS ACCORD-ING TO ACCOMMODATION ZONE

We consider comparing the average preference scoring of each group of tourists, staying in the north and south of the island, with the stimuli provided by the current offer in each of these zones. A higher preference would indicate greater fulfilment of customer expectations, since customers show a higher degree of preference and, therefore, satisfaction.

$$H_0: \mu_1 = \mu_2$$

 $H_1: \mu_1 \neq \mu_2$

A priori, and bearing in mind the sampling data, tourists staying in the south zone of Tenerife reveal a higher average preference level towards the stimulus provided by the current offer in their area than do tourists staying in the north. Following is a table of results of the Variance Analysis. (See Table 13)

We can confirm the existence of significant differences in the average preference levels of the two tourist groups towards the respective offer profiles. Therefore, we may conclude that the south zone meets customer expectations to a greater extent than the north zone, since preference levels show this to be the case.

SIMULATED PROFILES				
NORTH ZONE SOUTH ZONE				
Environment of countryside and beach	Beach environment			
Hotel 4*	Hotel 4*			
High prices	High prices			
Regular external services	Full external services			

TABLE 11. Simulations for each of the zones studies. Source: Own elaboration.

Accommodation			
Zone	Average	Stand. Deviation	N (*)
North	5.69	1.86	
South	6.20	2.03	587
Total	6.07	2.00	797

Table 12. The average preference scoring of each group of tourists staying in the north and south of the island. *N= Number of tourist interviewed. Source: Own elaboration

		Degree of			
Source	Sum of squared	freedom	Quadratic average	Snedecor's F	Sign.
Corrected model	40.22	1	40.22	10.18	0.00
Intersection	21863.04	1	21863.04	5534.55	0.00
ZONE	40.22	1	40.22	10.18	0.00
Error	3140.47	795	3.95		
Total	32500.08	797			•
Corrected Total	3180.69	796			•

Table 13. Results of the Variance Analysis. Source: Own elaboration

Conclusions and implications

The empirical evidence available for studying the breach that exists between a tourism destination's supply and demand and their repercussions on the destination's competitiveness are somewhat inconclusive, since most of the studies undertaken are centred on partial theoretical models or experiments at specific tourism destinations. This article aims to analyse the effects of the definition of the tourist product offered by two different tourism destinations on their level of competitiveness as destinations. To this end, a theoretical framework is defined. which enables us to create an empirical model of tourist consumer behaviour at both destinations, by crossing tourist preferences with the product/service characteristics offered by the destination.

The demand at both destinations assessed is evaluated by the level of utility reached by the tourist through the tourism product/service consumption received or likely to be received, by measuring the product through "accommodation and services", "holiday environment", "price" and "external services". The preference structure of tourists visiting each of the destinations considered is calculated by a conjoint methodology, which facilitates the decomposition of the tourism destination's total utility into partial utilities of each attribute and the level of the attributes that define destination profile.

The sign and quantity of the parameters calculated in this model enable us to reach another series of conclusions about the preferred characteristics of the product consumed by tourists, which will subsequently influence the competitiveness of the destination. Specifically, the existence of a positive effect of the destination's accommodation, price and complementary service level category is corroborated over the utility of the tourist lodging in the South zone destination, while these same parameters reveal similarities regarding accommodation and services, but a negative effect where price is concerned. Nevertheless, given the level of importance attributed to price for establishing the utility in both destinations,

here is justification against using a pricing policy as a sole competitive strategy for both the destinations analysed.

From the results obtained, it can be concluded that these are two well differentiated destinations and that they are perceived as such by the demand. The main difference lies in the factors concerning the holiday environment perceived as different (beach in the South zone, beach-countryside in the North zone) and the price, with a preference for low prices in the North zone, as opposed to a willingness to pay higher prices in the South zone. This latter result has negative implications for the competitiveness of the North zone, as opposed to the South of the island, since, though in the first case there is a higher incremental utility of the product as the hotel category increases, the demand for this destination is not willing to pay for it.

This study has aimed to provide an initial approach to the development of a methodology that will facilitate a conjoint analysis for studying the complex adjustment between hotel offer and demand in a tourism destination, with a view to a more extensive, in-depth future study with the inclusion of other variables, which would provide more knowledge about them, thereby facilitating a basis for designing a competitive hotel product at a specific destination.

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NOTAS

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² Slater, S.F. and J.C. Narver (1998): Costumer-led and market-oriented: Let's not confuse the two. Strategic Management Journal, 19: 1001-1006.

³ Slater, S.F. and J.C. Narver (1999): Market-oriented is more than being customerled. Strategic Management Journal, 20: 1165-1168.

⁴ Connor, T. (1999): Costumer-led and market-oriented: a matter of balance. Strategic Management Journal, 20: 1157-1163.

⁵ The term "card" refers to the format chosen, so as to present the tourists interviewed with the various alternatives of products for them to then place in order of preference. This is as follows: since the method chosen for this stage was the full profile, the card contains a theoretical alternative to the product chosen by the interviewee. Conjoint analysis methodology is a decompositional method, and, unlike other econometric models, is performed on an individual scale. In this way, the number of models obtained to explain the structure of preferences is the same as the number of tourists interviewed. Nevertheless, through a process of calculating the average partial utilities or coefficients of each product attribute type, it is possible to pass from an individual to a group scale, which is less useful and has less value, since it is an average.

 6 The ordinal nature of the measuring scale of the model-dependent variable, the tourist's preference level, obliges us to measure the goodness-of-fit of the actual model with Kendall's τ coefficient, since this coefficient measures the concordance between the preferences expressed by the tourists interviewed and those predicted by the model.

Pearson's r is always between -1 and +1, where -1 means a perfect negative, +1 a

perfect positive relationship and 0 means the perfect absence of a relationship. Pearson's r is symmetric. The correlation between x and y is the same as the correlation between y and x. Pearson's r is also referred to as the "bivariate correlation coefficient" or the "zero-order correlation coefficient. Word of caution: The correlation coefficient assumes that the relationship is linear.

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