



CONSUMERS BEHAVIOUR IN FAST-FOOD RESTAURANTS: A FOOD VALUE PERSPECTIVE FROM SPAIN

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STRUCTURED ABSTRACT

PURPOSE

This paper aimed to understand consumers behaviour in fast-food restaurants in Spain. To this end, we conducted a survey that combined a classification of food values, as proposed in the relevant literature, with a related model that links personal values to behaviour.

DESIGN/METHODOLOGY/APPROACH

A sample of 400 consumers was gathered from two different, leading fast-food chains operating in Spain.

With these data, respondents were grouped through hierarchical cluster analysis and K-measures, and in accordance with Lusk and Briggeman's (2009) food values and the food-related lifestyle (FRL) model. The authors validated these clusters by means of ANOVA and discriminant analysis, which led to useful observations about inter-group differences in consumers' habits, as well as their satisfaction, trust and loyalty.

FINDINGS

The results indicate that consumers can be clustered into three groups based their food values assessments: the "mainly utilitarian" group, the "mainly hedonic" group and the "ethical values" group. These groups not only demonstrate diverse habits, but also differ on key variables such as satisfaction, trust and loyalty.

PRACTICAL IMPLICATIONS

The authors offer several managerial recommendations for designing and developing segmentation strategies in the fast-food industry. Any such strategies should acknowledge that all consumer groups appear to value restaurants' efforts to provide them with both hedonic and utilitarian benefits, although the extent varies across groups.

ORIGINALITY/VALUE

Among the relevant literature, this research is the only one that examines the existence of distinct consumer groups based on their food values assessments. In addition, this paper analyses inter-group differences in terms of both diverse consumptions habits (frequency of visits, expenditure, etc.) and key marketing variables (satisfaction, trust, loyalty).

KEYWORDS

Values, cluster, consumer habits, satisfaction, trust, loyalty.

1. Introduction

Over the last few decades, the process of globalization has led to important cultural and sociological changes that have seeped into consumers' habits and culinary preferences. For instance, today's consumers exhibit a heightened sensitivity about the food they eat, and their anxieties are wide-ranging: from the dangers of food poisoning, to the broad health impact of food (e.g., chemical additives, high fat content and the related chronic diseases), to the environmental and regulatory issues surrounding food production (Worsley and Lea, 2008). These concerns have arisen in tandem with many consumers spending less time buying and cooking their own meals (Ayechu and Durá, 2010).

In light of these developments, restaurant industry operators are challenged to design and develop strategies tailored to specific market segments. However, the restaurant sector is already highly atomised: On the supply side, for instance, companies cater to very specific consumer segments (vegetarian, organic, etc.) or adapt their offer to segments with specific needs (e.g., gluten intolerance). This trend has similarly compelled producers and manufacturers to offer segment-specific products in order to better meet consumers' needs. Hence, restaurants need more refined strategies in order to differentiate themselves from their competitors and gain thorough knowledge of their customers (e.g., Kivela, 1997; Koo et al., 1999).

This need is especially pronounced among fast-food restaurants, which are an increasingly important sector of the industry. As one of the most iconic forms of globalization, fast-food restaurants have spread rapidly to major cities all over the world in response to the changing habits of urban consumers (Schroeder and McEachern, 2005; Tong and Wong, 2016; Xu, 2014). Such restaurants draw consumers for several reasons: convenience and/or time savings (Clemente-Ricolfe and Gómez-Layana, 2006); the pleasure of enjoying this type of family meal (Darian and Cohen, 1995); the positive image that they project when marketed as establishments of youthful and modern food (Fàbrega, 2004); their low price, wide schedules, and service speed, or even food offerings that are healthier and more respectful toward the environment (Libremercado, 2016).

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3 Operators can use several variables to design and develop such segmentation strategies. The
4 common tradition has been to use socioeconomic and demographic variables such as gender,
5 age, standard of living and education. However, there has been recent interest in new features
6 stemming from consumers' values. Within this latter research stream, it is worth highlighting
7 the food values scale proposed by Lusk and Briggeman (2009), who classified food values
8 based on a review of the literature on food preferences and human values. Also worth noting is
9 the food-related lifestyle (FRL) model proposed by Grunert et al. (1993), which tries to explain
10 consumers' behaviour towards their food choices in terms of their individual food-related
11 lifestyles. The FRL model effectively proposes a relationship between the product and value
12 attainment (although such a relationship can be more or less indirect).

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14 There are at least three strategic reasons for fast-food operators to consider this research stream:
15 (i) the need to identify how the health issues surrounding fast-food (such as the observed
16 relationship between its consumption and weight gain and/or obesity; Currie et al., 2010) might
17 affect consumers' perception of the firm's image; (ii) the growing need to establish long-term
18 relationships with customers, which requires detailed analysis of their behaviours; and (iii) the
19 intensive competitive environment of the fast-food industry and the subsequent need for long-
20 term survival strategies (Law et al., 2004; Momtaz et al., 2013).

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22 Given the above, the present study seeks a better comprehension of the behaviours of fast-food
23 consumers in Spain—specifically, how to achieve and/or bolster their satisfaction with, trust in
24 and loyalty toward this type of store. This research hopes to provide managers with a greater
25 understanding of different consumer segments and their respective food values—and further,
26 how these values relate to satisfaction, trust and loyalty. With this intention in mind, we adopted
27 Lusk and Briggeman's (2009) food values classification, which reflects many of the previously
28 mentioned tendencies and is consistent with the precepts of the FRL model, to classify fast-food
29 consumers into different clusters. This will enable us to investigate significant differences in
30 those clusters' habits and non-financial metrics (satisfaction, trust and loyalty). Based on the
31 results, we will propose a series of recommendations for the managers of fast-food restaurants.

2. Literature Review

2.1. *The relevance of values*

As previously pointed out, the past few decades have seen several shifts in how people purchase and consume food. In order to sustain a competitive advantage, fast-food business managers need to understand the aspects that guide consumer preferences and then incorporate those aspects in their marketing strategies (Abdullah et al., 2011). It is in this vein that the work of Lusk and Briggeman (2009) becomes especially useful. Their paper developed a classification of food values, reflecting a set of beliefs regarding the relative importance of the meta-attributes, consequences, and desired end-states associated with purchasing and consuming food. Having built the values upon a deep literature review on food preferences and human values, the authors created a system that recognizes consumers as complex and multi-dimensional (Martínez-Ruiz and Gómez-Cantó, 2016). Indeed, these values encompass most of the previously highlighted aspects, such as the growing concern for nutrition (nutrition and safety values), the natural environment (environmental impact value), social justice (fairness, origin, tradition and naturalness values) and whose consumption evokes feelings and provides experiences (appearance, taste and convenience values). By considering these values, fast-food restaurants may be able to develop better segmentation strategies

In the food research domain, it is common to see values linked to consumers' lifestyles. One of the commonly used models in this field is Grunert's (1993) FRL model, which relates to the systems of cognitive categories, scripts, and their associations, which relate a set of food products to a set of values (Grunert et al., 1993). The system of cognitive structures that the FRL contains is assumed to include different kinds of cognitive schemas related to food, purchase motives and food quality aspects, as well as broad cognitive scripts related with cooking methods, ways of shopping, and consumptions situations (Grunert et al., 1993).

The FRL and food values scale overlap in a few ways. For one, the model proposes a relationship between the food product and value attainment (although this relationship could be indirect depending on the product, the usage situation, and the way that food products are transformed into meals) (Steenkamp and van Trijp, 1990). This relationship reflects consumers'

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3 freedom in how they try to use food products to attain values and difficulties that the consumer
4 chooses food products directed by expected value attainment. Second, the desired higher-order
5 product attributes that underpin the FRL model refers to attributes that may apply to food
6 products in general, such as natural, nutritious, convenient, etc. These latter attributes are
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10 considered by the values proposed by Lusk and Briggeman (2009).

11 12 13 *2.2. The customer-business relationship*

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15 Businesses exist and compete to create satisfied customers (Anderson and Fornell, 2000).
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17 Investors are attracted to companies that excel at satisfying their customers, as those firms
18 recognize that the amount of goods or services they produce matters less than convincing
19 customers to return. In the restaurant industry, providing a variety of fresh, healthy food remains
20 an important criterion for satisfying customers (Qin et al., 2010), but companies must also offer
21 dining experiences that combine tangible and intangible elements in order to meet or exceed
22 customers' expectations (Tarn, 1999).
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29 In the past, when fast-food companies were more novel, they could satisfy customers simply
30 through tangible offerings (i.e., the food itself). However, people have become more
31 gastronomically sophisticated, and consequently, they have become more demanding about
32 their dining expectations. For example, newer generations are shifting away from the traditional
33 towards the new, the innovative and the exciting—all of which are intangible qualities. While
34 many traditionalists might believe that innovation can only be achieved through tangible
35 elements, such as the introduction of a new food item, intangible aspects have the power to
36 evoke deep, long-lasting emotions and memories (Zopiatis and Pribic, 2007).
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45 This trend toward the novel and intangible is largely driven by younger consumers, perhaps
46 indicating the importance they attribute to hedonic (i.e., subjective and individualistic)
47 consumption. Hedonic consumption provides these consumers with joy and pleasure (Irani and
48 Heidorzaden, 2011) through the multisensorial, fantasy and emotional aspects derived from
49 their experience with the product (Hirschman and Holbrook, 1982). In the context of fast-food
50 restaurants, such hedonic benefits might be derived from the food's good taste, among other
51 features (Maehle et al., 2015). The flip side of hedonic consumption is utilitarian consumption,
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3 which is more 'rational' and focused towards an objective (Arnold and Reynolds, 2003). This
4 implies that consumers acquire products in an efficient way and for a functional purpose
5 (Hirschman and Holbrook; 1982; Strahilevitz and Myers, 1998). In the fast-food context,
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7 utilitarian benefits might take the form of low prices, for example (Maehle et al., 2015).
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10 In practice, though, the majority of products seek to provide a combination of hedonic and
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12 utilitarian benefits, albeit with different degrees of emphasis. However, consumers frequently
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14 consider the majority of products as exclusively hedonic or utilitarian (Batra and Abtola, 1990;
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16 Fuljahn and Moosmayer, 2011). For this reason, Ryu et al. (2010) divided fast-food customers
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18 based on whether they professed a hedonic or utilitarian motivation for patronising such
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20 restaurants. This research found that both hedonic and utilitarian values significantly influenced
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22 customer satisfaction and behavioural intentions, and that customer satisfaction played a
23
24 significant role in changing behavioural intentions.
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26 Based on the above, restaurateurs should seek to improve customers' perceptions of both
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28 hedonic and utilitarian values to ensure satisfaction and encourage positive behaviours and
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30 emotions, such as returning to the restaurant or talking positively about their dining experience.
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32 Thus, managing customer satisfaction levels is a critical strategy for fast-food restaurants to
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34 retain current customers and attract new business via word-of-mouth (Qin and Prybutok, 2008).

35 In order to enact this strategy, companies need to build trust built with consumers, which is
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37 required for positive outcomes such as customer loyalty, retention, purchase intention,
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39 willingness to act, and overall market performance (Erdem and Swait, 2004).
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42 However, most of the extensive research on brand trust has focused more on the results of trust
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44 (e.g., loyalty and repeat business) than its predictors. For instance, Jacoby and Chestnut (1978)
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46 found that loyalty is a behavioural result of consumers' preferences for one brand over a
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48 selection of similar brands over a given period of time, which influences the evaluative process
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50 involved in decision-making. As a result, they suggested analysing loyalty from a twofold
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52 perspective: behavioural and attitudinal. Earlier studies often pursued the former approach: Dick
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54 and Basu (1994), for example, defined loyalty as the relationship between the 'relative attitude'
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3 towards an entity (brand/store/vendor) and 'patronage behaviour'. However, more recent studies
4 have adopted an attitudinal approach (De Ruyter et al., 1998) in order to provide a fuller picture.
5 Still, there is a largely answered question about what builds trust in consumers. With a focus on
6 the service sector, Parasuraman et al. (1985) suggested that trust arises for clients when they feel
7 secure with how they are treated and trust that any information they might provide will be kept
8 confidential. Several authors have since translated this issue of perceived service quality to the
9 fast-food industry, finding that factors such as food taste, establishment cleanliness, service
10 speed, and staff friendliness impact customer satisfaction and loyalty (Qin and Prybutok, 2009;
11 Qin et al., 2010). Price and nutritional value are gaining increasing importance, though (Kara et
12 al., 1995), as are convenient operating hours. With regard to food products, trust is closely
13 linked to other basic marketing concepts such as safety, nutrition and health. Trust is also a
14 potentially important factor in consumers' purchasing behaviour toward food products (Bredahl,
15 2001). Consumers sometimes lose their trust in the food production chain and fear that their
16 health could be seriously compromised (c.f. Worsley and Lea, 2008), and then it might become
17 necessary to restore said trust. Such considerations are crucial for companies trying to gain
18 customer loyalty and expand their persistent customer base.

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21 In any case, it is clear that consumer trust, loyalty, and satisfaction are interconnected
22 constructs. For instance, several studies have determined that high customer satisfaction and
23 service quality result in higher customer loyalty and a willingness to recommend a firm to
24 another person (Bolton and Drew, 1991; Boulding et al., 1993; Rust and Oliver, 1994).
25 Likewise, Anderson and Sullivan (1993) found that a high level of customer satisfaction
26 decreases the perceived benefits of switching service providers, which, in turn, increases
27 customers' repurchasing intentions and loyalty. By defining loyalty in terms of purchase
28 frequency and amount spent per order or visit, Kendrick (1998) effectively implied that
29 customers must be satisfied in order to become loyal to and profitable for a company. Bowen
30 and Chen (2001) corroborated this argument in their study on the relationship between customer
31 loyalty and customer satisfaction, finding a positive correlation between loyal customers and
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3 profitability. Similarly, Kumar and Shah (2004) noted that customer loyalty is an important part
4 of developing relationships that increase business and promote retention.

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6 Relatedly, many researchers have provided empirical evidence for a positive relationship
7 between customer satisfaction and behavioural intentions such as returning to an establishment
8 or recommending it to friends—all of which have obvious implications for profitability (Ryu et
9 al., 2010). Moreover, high levels of satisfaction have the collateral effect of reducing the amount
10 of money that needs to be invested in attracting new customers, as loyal customers effectively
11 fill that role for free (Lovelock and Wright, 2002).
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18 **3. Methodology**

19 **3.1. Data collection**

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21 In order to collect the data, we developed a structured questionnaire that intended to gather all
22 the necessary information for the research. In order to keep the sampling error below 5%, we
23 conducted 400 personal surveys at the exit of different McDonalds and Telepizza establishments
24 located in the city of Burgos (Spain) in 2013. We selected these fast-food chains because
25 McDonalds is the leading fast-food chain in Spain, and Telepizza is one of the Spanish-
26 originating brands that has achieved a consolidated image and global coverage. We chose the
27 city of Burgos because its population size is fairly representative of most Spanish cities (La
28 Caixa, 2014). The restaurants were visited at different times of day and over the course of
29 several months so as to ensure that the data would not be seasonal. The survey was voluntary
30 and completely anonymous, and consumers did not receive any kind of incentive.
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42 **TABLE 1**

43 **3.2. Empirical research**

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45 Most marketers understand that mass marketing is an ineffective approach to meeting diverse
46 customer needs. Grouping customers with similar requirements and buying behaviour into
47 segments is one way to address this diversity. In doing so, marketing managers are likely to
48 reach their target market(s) far more effectively and efficiently, and thereby better satisfy their
49 customers' needs.
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We utilized a sequential process to meet the objectives of determining, analysing and characterising consumer groupings at fast-food restaurants. First, we built upon the food values identified by Lusk and Briggeman (2009) to form user groups through hierarchical cluster analysis and K-measures. In a second phase, we validated these clusters by means of ANOVA and discriminant analysis. In a third and final phase, we performed parametric and non-parametric tests to uncover the existence of inter-group differences in terms of satisfaction, trust, loyalty and consumer habits.

3.3. Results and discussion

In the hierarchical cluster analysis, we used squared Euclidean distance as the measure of proximity and the Ward method as the classification algorithm. This produced a dendrogram that allowed us to determine the number of clusters and the centroids, which was necessary to apply the K-means method. We obtained a total of three clusters, which were validated by both ANOVA and discriminant analysis. The ANOVA results reflect the existence of inequality of means between the groups (see Table 2).

TABLE 2

The following paragraphs offer a brief description of the groups. The clusters were formed by taking the average values of the variables, which are shown in Table 2:

- **GROUP 1. Mainly utilitarian:** People in this group place importance on the price paid for food. They also attach considerable value to appearance and taste. They gave the remaining values lower scores than the other respondents. A total of 34.5% of the sample belonged to this group. **Although these consumers emphasize values related to both utilitarian and hedonic benefits, we coded this group as ‘mainly utilitarian’ due to the high relevance they assigned to price.**
- **GROUP 2. Mainly hedonic:** Accounting for 24% of the sample, this group comprises those consumers who value all aspects highly except for price. Like group 1, these **consumers place high emphasis on values related to both utilitarian and hedonic benefits**, but we coded this group as **mainly hedonic** due to the **high importance placed on appearance, taste (especially with respect to group 3) and convenience (especially with respect to group 1).**

- **GROUP 3. Ethical values:** The people in this group were the least concerned about the price, taste and appearance, and instead identified with a range of values related to health, the environment and social responsibility (for simplicity's sake, we will jointly refer to them as 'values'). They also emphasised aspects such as naturalness, nutrition, origin, tradition, environmental impact, safety and fairness. This group accounted for the largest share of users (41.5%).

The multiple discriminant analysis revealed the existence of differences in means between the groups (i.e., the equality of means). In addition, low Wilks' Lambda values were observed. The chi-square associated with the Wilks' Lambda means that the hypothesis of differences in the scores given to the independent variables between the consumer groups can be accepted.

Box's M test showed that the F statistic was 2.85, with a significance level of 0.0001. With this, we can reject the null hypothesis that the variance-covariance matrices present no statistically significant differences between the groups of clients. Finally, the confusion matrix shows that 96.8% of the originally grouped cases were correctly classified. All of the above confirms that the three clusters obtained were different and correctly identified.

In general, the analysis corroborates earlier findings (Batra and Abtola, 1990; Fuljahn and Moosmayer, 2011) that all consumer groups appreciate fast-food restaurants' efforts to provide them with some combination of hedonic and utilitarian benefits, albeit to varying extents.

Table 3 shows the differences in the three clusters' consumer habits in terms of the variables previously reviewed (e.g., Kendrick, 1998).

TABLE 3

In general, the customers from the sample were heavy fast-food restaurant users: 73.5% ate at such restaurants one or more times a week. Nonetheless, the groups exhibited profound differences in usage: The 'mainly utilitarian' consumers were the least likely to patronise this type of restaurant, while consumers in the other two groups ate at them several times a week or even every day. It is notable that those clients least sensitive to price (the 'ethical values' group) were also the most likely to eat at fast-food restaurants. In line with the practical recommendations of Anderson and Miroso (2014), this latter finding might indicate that, amidst

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3 some restaurant operators' efforts to present a 'healthier' image, some consumers may perceive
4 them as quick service restaurants with healthy food options.
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7 With regard to dining companions, the customers in the sample generally went to the restaurants
8 with their friends, family or partners (82.5% in all). Of the rest, 10.25% went alone and 7.25%
9 went with colleagues from work. In terms of between-group differences, those who ate with
10 friends were mainly from the 'mainly utilitarian' group, while those who went with their
11 families were mainly from the 'mainly hedonic' and 'ethical values' groups. Members of the
12 'mainly utilitarian' group hardly went to fast-food restaurants with their families at all.
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18 We observed no meaningful differences in average per capita expenditure. The largest share of
19 the sample (44.5%) spent between 6 and 11 euros per person. The members of the 'mainly
20 utilitarian' group were the most price-sensitive and patronised restaurants less frequently in
21 order to spend less.
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26 With regard to satisfaction, customers were generally satisfied with the food at the restaurant
27 and with the establishment itself (a score of more than 3 on a scale from 1 to 5). The most
28 satisfied clients were those from the 'mainly hedonic' group (score of approximately 4), while
29 the least satisfied were those from the 'ethical values' group (see Table 4).
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34 **TABLE 4**

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36 An examination of the previous table illuminates several interesting findings. First, all customer
37 groups presented higher scores on those variables related to satisfaction with the food,
38 satisfaction with the establishment, and trust, but lower scores for loyalty. In other words,
39 customers had the most appreciation for variables related to the short- and medium term.
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44 With regard to the short-term, people presented higher satisfaction scores for the food compared
45 to the establishment itself. For the medium-term, it seems important that the scores on the trust
46 variables paralleled those on the satisfaction variables. With regard to the long-term, there were
47 three loyalty variables that received scores lower to 3. From highest to lowest score: "meals
48 outside the home are consumed at this establishment", "best option for food away from home"
49 and "likelihood to recommend the establishment". Notably, although the loyalty variable "regular
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visits to the establishment” had a higher score than its peers, it might reflect a mere routine behaviour more than actual loyalty.

Additionally, we observed that the mainly hedonic group had the overall highest scores, while the ethical values group had the overall lowest scores. As for trust, the data were generally similar to those on satisfaction (with scores of over 3 points). Therefore, it seems that the ‘mainly hedonic’ customer group tends to present higher scores in satisfaction, trust and loyalty. In contrast, the customer group that primarily values aspects related to health, the environment, and social responsibility presented lower scores in all these variables. This latter finding might suggest that fast-food restaurants have not successfully linked their image to ethical values.

Inter-group differences were mainly found among customers from the ‘mainly hedonic’ group, who maintained a very strong trust in the restaurant (score of around 4). We performed an ANOVA and a Mann-Whitney U test on the ‘mainly utilitarian’ and ‘ethical values’ groups to establish whether the two clusters differed. Both tests revealed statistically significant differences for only three variables: the establishment’s honesty, the qualifications of its employees, and its technical resources. The ‘ethical values’ group consistently gave higher scores to the first two variables.

4. Conclusions

The present study aimed to understand how consumers’ food values relate to their behaviours at fast-food restaurants. To this end, we joined the food values scale proposed by Lusk and Briggeman (2009) with the food-related lifestyle (FRL) model proposed by Grunert et al. (1993) in a survey of fast-food customers in Spain. Overall, the results corroborated the importance of designing segmented strategies in order to garner diverse consumers.

First, we identified three distinct groups of consumers: the “mainly utilitarian” group (32.45% of the sample), which comprises those consumers who place top importance on the price paid for food, but also assign considerable value to appearance and taste; the “mainly hedonic” group (24% of the sample), who place high value on all aspects except for price, and especially on the values of appearance, taste and convenience (relative to other clusters); and finally, the “ethical values” group (41.5% of the sample), who most identify with a range of values related to safety,

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3 the environment and social responsibility. In addition, and in line with reviews of the relevant
4 literature, all consumer groups seemed to appreciate fast-food restaurants' efforts to combine
5 hedonic and utilitarian benefits, albeit to varying extents.
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9 Second, even though most of the respondents were heavy fast-food restaurants users, there were
10 some interesting differences between them: Those clients least sensitive to price (the "ethical
11 values" group) were also the most likely to eat at fast-food restaurants. The more that fast-food
12 restaurants position themselves as having healthy options, the more they might attract
13 consumers from this group. Moreover, we found that the majority of consumers went to the
14 restaurants with their friends, family or partners (82.5% in all). Consumers who ate with friends
15 were mainly from the mainly utilitarian group, whilst those who went with their families were
16 mainly from the mainly hedonic and ethical values groups. Members of the 'mainly utilitarian'
17 group hardly went to fast-food restaurants with their families at all. No significant differences
18 were observed in average per capita expenditure, being the largest share of the sample spent
19 between 6 and 11 euros per person.
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23 Third, we observed that all customer groups expressed higher scores for variables related to
24 satisfaction with the food, satisfaction with the establishment, and trust, but lower scores for
25 loyalty. It seems that customers had the most appreciation for the variables related to the short-
26 term (satisfaction) and medium-term (trust). Thus, restaurant managers may struggle with
27 achieving the long-term outcome (loyalty to the store), as consumers do not seem to appreciate
28 fast-food restaurants in that way. Moreover, the high scores among the mainly hedonic group,
29 coupled with the low scores of the ethical values group, may reflect such restaurants' reputation
30 as being contrary to ethical values.
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34 Several interesting recommendations can be drawn from these findings. For instance, all
35 consumer groups appeared to value the restaurants' efforts to provide them with a combination
36 of hedonic and utilitarian benefits. Thus, these restaurants should continue to enhance or
37 improve the presence of values related to such benefits. In doing so, these values may translate
38 from the establishment's image to the corporate image. In addition, managers should analyse
39 why consumers do not exhibit a real loyalty to the establishment in the long term, despite their
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3 routine behaviour of repeatedly visiting the store. It is important to understand the real limits on
4 attracting loyal customers, who are pivotal to the establishment's long-term survival.

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6 One way to boost customer loyalty might be to address the market gap between fast-food
7 restaurants and 'ethical values' customers. Such consumers might discover greater interest in
8 visiting fast-food restaurants if they exhibit more concern for the environment and social
9 responsibility. In this sense, advertising campaigns focused solely on the health quality of food
10 might be sub-optimal for attracting this customer segment. However, attracting these customers
11 will require not only better communication, but also incremental innovation through the
12 development of, for example, healthier meals and greater environmental activism.
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20 It is worth adding that the 'mainly hedonic' customers placed substantial importance (relative to
21 the other two groups) on the issue of trust, particularly as it concerns the delivery of the service.
22 From a business perspective, this suggests that restaurants should undertake specific actions to
23 increase trust. These actions might include providing more information on calories and
24 nutritional values, as that is where the greatest informational asymmetries have been identified.
25 Finally, we found that customer satisfaction does not meaningfully contribute to customer
26 loyalty, at least in this context. Indeed, consumers concerned about health, the environment and
27 social responsibility were the least loyal, and yet 58.43% of them frequent these types of fast-
28 food restaurants several times a week or more. This finding aligns with Carpenter (2008), who
29 established that consumer behaviour may be repeated more out of necessity. The high frequency
30 with which a customer buys a product may be due more to a lack of appealing alternatives than
31 to an attitude of loyalty (Hobbs and Rowley, 2008). In other words, in the context of this
32 research, they may be patronising the restaurant without any true loyalty to the brand based on
33 affect or loyalty intention (Oliver, 1997). These may represent a compelling opportunity for
34 companies in the industry, which should thus work to develop or increase production and
35 distribution practice initiatives related to these aspects.
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TABLES

Table 1

Technical details

Universe	Consumers of fast-food restaurants over the age of 18 (September-October 2013)
Sample unit	Consumer of fast-food restaurants over the age of 18 (September-October 2013)
Data collection method	Personal questionnaire
Sample error	±4.92%
Level of trust	95%; Z = 2; P = Q = 0.50
Sample procedure	Probabilistic method
Number of surveys	400 valid surveys

Table 2

Mean values of the variables between groups and the ANOVA

	Group 1: Mainly utilitarian	Group 2: Mainly hedonic	Group 3: Ethical values	ANOVA
Appearance	3.94	4.33	3.30	39.75 ^a
Taste	4.37	4.60	3.59	56.74 ^a
Price	3.99	3.75	3.14	24.96 ^a
Naturalness	2.04	3.95	2.61	121.74 ^a
Convenience	2.17	4.11	3.17	101.92 ^a
Nutrition	1.87	3.75	3.20	102.22 ^a
Origin	2.00	3.68	2.51	74.13 ^a
Tradition	1.85	3.94	3.39	139.84 ^a
Environmental impact	2.75	4.15	3.38	40.64 ^a
Safety	2.28	3.97	3.04	68.32 ^a
Fairness	1.91	4.08	2.71	73.48 ^a

NOTE: a = level of significance < 0.001.

Table 3

Inter-group differences in consumer habits

Variable	%	Chi-squared	Percentages by groups		
			Mainly utilitarian	Mainly hedonic	Ethical values
Frequency of visit		p<0.001			
Less than once a month	17.25%		24.64%	7.29%	16.87%
Once a month	8.75%		16.67%	8.33%	2.41%
Once a week	25.50%		28.26%	27.08%	22.29%
Several times a week	32.00%		21.01%	38.54%	37.35%
Every day	16.50%		9.42%	18.75%	21.08%
Companions		p=0.024			
Alone	10.25%		10.14%	10.42%	10.24%
Family	20.50%		9.42%	29.17%	24.70%
Friends	37.25%		44.93%	31.25%	34.34%
Partner	24.75%		27.54%	22.92%	23.49%
Colleagues	7.25%		7.97%	6.25%	7.23%
Expenditure per person		p=0.258			
Less than 6 euros	21.50%		23.91%	18.75%	21.08%
From 6 to 11 euros	44.50%		46.38%	46.88%	41.57%
From 12 to 17 euros	24.50%		24.64%	26.04%	23.49%
Over 17 euros	9.50%		5.07%	8.33%	13.86%

Table 4

Inter-group differences in satisfaction, trust and loyalty

Variable	Mean	ANOVA / H- Kruskal -Wallis	Average values for groups		
			Mainly utilitarian	Mainly hedonic	Ethical values
Satisfaction with the food					
The food met my expectations	3.78	p<0.001 p<0.001	3.94	4.07	3.48
The food was satisfactory	3.76	p<0.001 p<0.001	3.75	4.22	3.50
Satisfaction with the food prepared in this establishment	3.69	p<0.001 p<0.001	3.84	4.15	3.31
Satisfaction with the establishment					
Good choice of establishment	3.57	p<0.001 p<0.001	3.69	3.89	3.28
Total satisfaction with this establishment	3.74	p<0.001 p<0.001	3.75	4.23	3.44
Total satisfaction compared to other restaurants	3.39	p<0.001 p<0.001	3.37	3.93	3.10
Trust					
The establishment keeps its promises	3.54	p<0.001 p<0.001	3.36	4.10	3.35
Truthfulness of the information provided by the establishment	3.53	p<0.001 p<0.001	3.38	4.09	3.33
Honesty of the establishment	3.51	p<0.001 p<0.001	3.18	4.13	3.43
Trust in the establishment's intentions	3.52	p<0.001 p<0.001	3.27	4.07	3.42
Sincere and honest information	3.46	p<0.001 p<0.001	3.21	4.15	3.27
Professionalism of the establishment	3.61	p<0.001 p<0.001	3.46	4.11	3.45
Technical resources of the establishment	3.57	p<0.001 p<0.001	3.57	3.96	3.33
Qualifications of the workers	3.46	p<0.001 p<0.001	3.12	3.91	3.48
Concern for client satisfaction	3.68	p<0.001 p<0.001	3.49	4.17	3.56
Proper treatment received	3.76	p<0.001 p<0.001	3.64	4.15	3.63
Ease of obtaining information from the establishment	3.54	p<0.001 p<0.001	3.27	4.13	3.42
Loyalty					
Meals outside the home are consumed at this establishment	2.71	p<0.001 p<0.001	2.70	3.13	2.48
Likelihood to recommend the establishment	2.83	p<0.001 p<0.001	2.91	3.36	2.45
Best option for food away from home	2.78	p<0.001 p<0.001	2.75	3.30	2.51
Regular visits to this establishment	3.64	p<0.001	3.71	3.95	3.40

		p<0.001			
Regular business with the establishment	3.54	p<0.001	3.45	3.96	3.36
		p<0.001			

Note: Scale of 1 to 5.

British Food Journal

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RESPONSES TO REVIEWS

Reviewer(s)' and comments to Author:

Reviewer: 1

Recommendation: Major Revision

Comments:

The topic of this paper is interesting and current. To differentiate fast food restaurant consumers into segments is an innovative research idea. The statistical methods are appropriate and robust. The structure and readability of this paper can be improved.

Additional Questions:

1. Originality: Does the paper contain new and significant information adequate to justify publication?: This article examines consumer behaviors in fast food restaurants from a food value perspective in Spain. The topic is current and interesting. It does contain new information to justify publication. However the contributions of this research are not highlighted; hence my recommendation in this category is to rewrite the introduction section to make sure the research gap is clearly defined and research questions and contributions are emphasized

Thank you so much for this recommendation. In accordance, we have completely rewritten the introduction section, added different ideas that better clarify the research gap, and highlighted the research questions and contributions. These changes led to some modifications in the abstract, the literature review, and the conclusion. All of the meaningful changes in these sections have been highlighted in yellow to better identify them.

2. Relationship to Literature: Does the paper demonstrate an adequate understanding of the relevant literature in the field and cite an appropriate range of literature sources? Is any significant work ignored?: Literature review is one of the major weaknesses for this manuscript. Two related areas were reviewed in the current submission: food values and the fast food context and the relevance of the customer-business relationship. One of the major contributions of this study is to differentiate fast food restaurant customers into several segments; however, the criteria/variables used are not addressed well. In addition, the theory or the research frame to back up this differentiation are not reviewed. For example, why were utilitarian, convenience, and values employed as clusters? Is there any theory to support it? The current presentation of this manuscript gives audience an impression that it is more like data-driven mining. Without a frame or theme, the literature review section just listed some related work.

In accordance with this comment, we incorporated several changes in the paper. First, we enhanced the literature review of section 2.1 regarding values, providing additional rationale for the use of the food values scale. Specifically, we accounted for the Food Related Lifestyle (FRL) model, which usefully proposes a link between the food product and value attainment.

We also improved the literature review of section 2.2 by incorporating additional ideas about the distinction between the utilitarian and hedonic benefits that consumers gain from fast food restaurants. This helped to clarify the need for segmentation strategies in this industry.

This led us to slightly alter the previous naming of the clusters in section 3.3: Group 1 is now named "mainly utilitarian" (instead of "utilitarian"); group 2 is named "mainly hedonic" (instead of "convenience"), and group 3 is named "ethical values" (instead of "values"). We incorporated this denomination into the abstract and maintain it throughout the paper.

Again, all of these modifications have been highlighted in yellow.

3. Methodology: Is the paper's argument built on an appropriate base of theory, concepts, or other ideas? Has the research or equivalent intellectual work on which the paper is based been well designed? Are the methods employed appropriate?: The current research argument is not built on a solid base of theory. The survey design is not robust. Statistical methods such as hierarchical cluster analysis and discriminant analysis are appropriate.

We greatly appreciate that you consider our choice to use hierarchical cluster analysis and discriminant analysis as appropriate

4. Results: Are results presented clearly and analysed appropriately? Do the conclusions adequately tie together the other elements of the paper?: The presentation of results is ok, but it can be significantly improved, for example, some subtitles can be added in Section 3.3. Tables and results are not sufficiently explained.

Thanks for this. In line with this comment, we added the following paragraphs:

In pages 9 and 10:

[...] A structured questionnaire was developed to collect the data. The questionnaire contained all the necessary information for the research. With the intention of no surpassing a sample error of 5%, 400 personal surveys were conducted at the exit of different McDonalds and Telepizza establishments located in the city of Burgos (Spain) in 2013. These fast food chains were selected for this research taking into account that McDonalds is the leading fast food chain in Spain, and Telepizza is a benchmark in the Spanish fast food market, being one of the pioneering chains that have come with time to achieve a consolidated brand image, in addition to having managed to spread to the rest of the world. The restaurants were visited at different times of day and over the course of several months, so as to ensure that the data would not be seasonal. The city of Burgos has been selected as it is constituted by a population that has an average size representative of the size of most of the cities of Spain (La Caixa, 2014). The survey was voluntary and completely anonymous, and consumers did not receive any kind of incentive. [...]

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3 **5. Implications for research, practice and/or society:** Does the paper identify clearly any
4 implications for research, practice and/or society? Does the paper bridge the gap between
5 theory and practice? How can the research be used in practice (economic and commercial
6 impact), in teaching, to influence public policy, in research (contributing to the body of
7 knowledge)? What is the impact upon society (influencing public attitudes, affecting quality of
8 life)? Are these implications consistent with the findings and conclusions of the paper?: The
9 paper identifies some practice implications, but not research implications. It provides useful
10 findings for restaurant managers. Conclusion section is fine, however, it loses the focus.
11 Contributions should be highlighted in this section as well. In stead of repeating distinct levels
12 of scores for each segment, discussion should go to a higher level, explaining fundamental
13 differences among these three groups and how restaurant managers can imply these differences.
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16
17 Thanks for this. We made several modifications to the conclusions section: namely, rewriting the
18 whole section to be more focused, and highlighting the paper's contributions.
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21 **6. Quality of Communication:** Does the paper clearly express its case, measured against the
22 technical language of the field and the expected knowledge of the journal's readership? Has
23 attention been paid to the clarity of expression and readability, such as sentence structure, jargon
24 use, acronyms, etc.: Readability is another major weakness of this paper. It is structured very
25 poorly, especially in the sections of introduction, literature review, and results. The technical
26 language is fine; however the readability is poor. It is very difficult to keep track of this paper.
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30 Guided by your recommendation, we hired a professional English editor who improved the
31 paper's readability.
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4 Reviewer: 2
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6 Recommendation: Minor Revision
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8 Comments:

9 I found some merits in both methodology and results. In my opinion, this paper has a good
10 potential to be published in the journal. However, I have also some concerns about the different
11 parts of the manuscript. If only the author(s) address carefully to all of my comments, I'll
12 recommend publication of the manuscript in the journal.
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15 Additional Questions:

16 **1. Originality:** Does the paper contain new and significant information adequate to justify
17 publication?: Yes, It does. The paper contains new and significant information.
18
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20 Thanks much.
21

22 **2. Relationship to Literature:** Does the paper demonstrate an adequate understanding of the
23 relevant literature in the field and cite an appropriate range of literature sources? Is any
24 significant work ignored?: Yes, The literature is adequate but if the author(s) use more new
25 papers in the field, the literature would be stronger.
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29 Thanks for this. Based on your recommendation, we incorporated new papers from the field,
30 especially in the introduction and sections 2.1. and 2.2.
31

32 **3. Methodology:** Is the paper's argument built on an appropriate base of theory, concepts, or
33 other ideas? Has the research or equivalent intellectual work on which the paper is based been
34 well designed? Are the methods employed appropriate?: The methodology is appropriate but
35 there are some comments:
36

- 37 1- The reason for selecting the number of samples should be stated.
38 2- The reason for choosing a studying city as well as two fast food should be stated.
39 3- If respondents are given an incentive to respond, they must be stated.
40

41 Given your recommendation, we added the following paragraphs:
42

43 In pages 9 and 10:

44 [...] A structured questionnaire was developed to collect the data. The questionnaire
45 contained all the necessary information for the research. With the intention of no
46 surpassing a sample error of 5%, 400 personal surveys were conducted at the exit of
47 different McDonalds and Telepizza establishments located in the city of Burgos (Spain)
48 in 2013. These fast food chains were selected for this research taking into account that
49 McDonalds is the leading fast food chain in Spain, and Telepizza is a benchmark in the
50 Spanish fast food market, being one of the pioneering chains that have come with time
51 to achieve a consolidated brand image, in addition to having managed to spread to the
52 rest of the world. The restaurants were visited at different times of day and over the
53 course of several months, so as to ensure that the data would not be seasonal. The city
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3 of Burgos has been selected as it is constituted by a population that has an average
4 size representative of the size of most of the cities of Spain (La Caixa, 2014). The survey
5 was voluntary and completely anonymous, and consumers did not receive any kind of
6 incentive. [...]
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10 **4. Results:** Are results presented clearly and analysed appropriately? Do the conclusions
11 adequately tie together the other elements of the paper?: The section is written in the plain and
12 fluid form, which is worthwhile. But the way consumers are grouped is not explicitly stated.
13 Also, the reason for choosing the name of each group is not clearly stated.
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16
17 Thanks much. In this regard, we improved the literature review of section 2.2 by incorporating
18 additional ideas about the distinction between the utilitarian and hedonic benefits that consumers
19 gain from fast food restaurants. This helped to clarify the need for segmentation strategies in this
20 industry.
21

22 This led us to slightly alter the previous naming of the clusters in section 3.3: Group 1 is now
23 named "mainly utilitarian" (instead of "utilitarian"); group 2 is named "mainly hedonic" (instead of
24 "convenience"), and group 3 is named "ethical values" (instead of "values"). We incorporated this
25 denomination into the abstract and maintain it throughout the paper.
26

27 Again, all of these modifications have been highlighted in yellow.
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31 **5. Implications for research, practice and/or society:** Does the paper identify clearly any
32 implications for research, practice and/or society? Does the paper bridge the gap between
33 theory and practice? How can the research be used in practice (economic and commercial
34 impact), in teaching, to influence public policy, in research (contributing to the body of
35 knowledge)? What is the impact upon society (influencing public attitudes, affecting quality of
36 life)? Are these implications consistent with the findings and conclusions of the paper?: Yes, it
37 does.
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41 Thanks much.
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44 **6. Quality of Communication:** Does the paper clearly express its case, measured against the
45 technical language of the field and the expected knowledge of the journal's readership? Has
46 attention been paid to the clarity of expression and readability, such as sentence structure, jargon
47 use, acronyms, etc.: The quality of the language needs to improve for grammatical style and
48 word use
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51 Thanks for this. We hired a professional English editor who improved the readability of the paper.
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