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The Product Features, Functions, and Benefits of Seafood Products for Competitive Repositioning

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ABSTRACT

The global demand for seafood products increased in a dynamic environment. Still, fails to achieve competitive positioning due to labeling, unattractive and unprofitable targeted segments, and less preferred quality and features. Thus, this study tried to create competitive positioning through features, functions, and benefits of seafood product attributes. The results arranged through consumer characteristics, consumer preference with conjoint analysis, market identification and competition with regression analysis, Multidimensional Scaling, and Correspondence Analysis from 206 respondents. The results prove that (i) canned fish, dried fish, and salted fish competed on freshness, durability, and food safety (labels); (ii) shredded fish, surimi, and pedak competed on density, taste, physiological function, and easy-to-use feature; (iii) crackers competed on taste, social function, and psychological function; (iv) shrimp paste competed on shape, color, surface condition, texture, additive content, and chemicals. The implications of the results: (i) transported and packed to processing plants and food storage facilities; (ii) an increase in food diversity, food fortification, and supplementation; (iii) cultural congruence between the product and the market with certain packaging designs, launch timing, and advertising; (iv) several methods of process, such as quick freezing and cookchilling, pasteurized before packed or retort pouch and natural food additives.

Keywords: competitive positioning, product features, product functions, product benefits, perceptual map.

INTRODUCTION

Recently, the seafood product demand rate is increasing globally (OECD-FAO, 2018) due to the ease of information exchange. Their markets become a key driver of transition toward more sustainable and responsible seafood production globally (The David and Lucile Packard Foundation, 2017). Meanwhile, dynamic competitive environment and rapid changes in consumer needs (D'Aveni, 1998; Hunt & Arnett, 2004) cause a tremendous challenge. Careful consideration should be given for seafood products with an assessment of the current market situation by analyzing the external threats and opportunities as well as internal strengths and weaknesses for effective marketing strategies (Engle, Quagrainie, & Dey, 2016).

In product-specific marketing strategies, product positioning needs a distinctive image of target consumers' minds related to their buying decisions (Ostasevičiute & Šliburyte, 2008). The

successful positioning will convey why one company's product is preferred than other companies' by wielding competitive perspective, clear mind, consumer perception, uniqueness, and competitive advantage (Saqib, 2019). It will ensure that the marketing messages are received well by the target consumers through the right communication channels (Richards, 2015).

However, the current seafood product marketing in empirical literatures is indicated failing in achieving competitive positioning of seafood products because of some reasons, such as labeling (Alfnes, Chen, & Rickertsen, 2018), unattractive and unprofitable targeted segments, less preferred quality and features, uncompetitive price, short-term orientation, and poor procedure organization (FAO, 2013). In this case, product attributes and consumer segments play an important role in the buying decision of seafood products (Olsen, Tuu, & Grunert, 2017).

Despite the importance of the positioning of seafood products for effective marketing strategies, strengths and weaknesses of different products' attributes only receive little attention. In fact, product quality is competing simultaneously in consumer perception. Understanding regarding this can be obtained by linking customer perception and quality dimensions for developing competitive positioning in marketing strategy.

Therefore, careful consideration should be given for the seafood products with an assessment on the current market situation with the analysis of internal strengths and weaknesses of the product attributes based on the quality dimension theory (Garvin, 1987) by taking into account what attributes characterize the quality of both the competitive firms and consumer satisfaction. Thus, this study gives a better understanding of how consumers create their perceptions about products through a combination of features, functions, and benefits of seafood products in the market for designing a competitive positioning.

RESEARCH METHOD

This study was conducted by involving 206 participants who often consumed seafood products on many occasions. The participants were from coastal areas and the main producers of seafood products in West Kalimantan, Indonesia. Data were obtained through interviews and questionnaires, which considerably had a high return rate and needed fewer answers, with controlled answering order, and were practical and relatively flexible (Alshenqeeti, 2014). The study also used in-depth information about external behavior and internal beliefs regarding seafood products to obtain richer data and validate the research findings (Ingleby, 2012; Alshenqeeti, 2014; Cohen *et al.*, 2017).

The competitive positioning of seafood products was arranged based on the value attributes through three steps. The first step was identification of consumer characteristics (i.e. age, religion, ethnicity, family members, education, job-status, time of purchase, and expenditure) to ensure that the collected data strictly describe the target data (Alshenqeeti, 2014). The second step was identification of consumer preference regarding seafood product attributes (i.e. product features, product functions, and product benefits) in quality dimensions (Garvin, 1987) using conjoint analysis for the target market (Lai, 1995). Within

this step, the validity was measured by comparing how well conjoint utilities predicted choices from the holdout tasks (Orme, Alpert, & Christensen, 1997). Consumers reflected the product attribute value for ensuring acceptability behavior and social intervention.

The third step was analysis of market identification and competition for simultaneous product benefits (i.e. shape, color, surface, texture, sanity, defect, solidness, nutrients, moisture, additives, chemicals, taste, aroma, flavor, physiological, social, psychological, safety, easiness, and affordability) that explain the prices. Regression analysis with the 2log likelihood model was used to see the significance of the observed variables (Iazzi, Vrontis, Trio, & Melanthiou, 2016) performed with systemized, adapted, and statistical resources (Bergen & Peteraf, 2002).

The best attributes from multivariate analysis with the Multidimensional Scaling (Verma, 2013) and the Correspondence Analysis (Kroonenberg & Greenacre, 2004) were used to make a prompt decision of competitive positioning designs. Multidimensional Scaling/MDS and Correspondence Analysis/CA is a 20-item scale (i.e. shape, color, surface, texture, freshness, disabilities, density, nutritional value, moisture, additives, chemicals, flavor, aroma, taste, physiological function, social function, psychological function, food safety, ease of use, affordability) with reference to product features, product functions, and product benefits of quality dimensions. Multidimensional Scaling/MDS was rated on a 5-point Likert scale, ranging from (1) very similar to (5) very different. Meanwhile, Correspondence Analysis/CA was rated on a 2-point Nominal scale, which were (0) the attributes are not satisfying and (1) the attributes are satisfied.

RESULT AND DISCUSSIONS

The Consumer Characteristics

Marketers need to understand the consumer characteristics that influence the buying behavior of seafood products as presented in Table 1.

As seen in Table 1, most consumers were older adults, more experienced, and more interested in seafood products. Thus, consumer age affected their purchasing decisions (Drolet *et al.*, 2010; Slabá, 2019). Since consumer behavior was a significant factor in product purchasing, religion also affected consumer values and actions in spending their money (Daas, 2018). Consumer ethnicity also impacted on a distinct pattern in buying behavior by informational influence and perception on the product attributes (Velioğlu, Karsu, & Umut, 2013).

Family members were found to directly influence the purchase decision by justifying as well as highlighting the benefits of purchasing, forming coalitions, compromising, and remaining persistent in using their product-related knowledge and information to encourage parents to purchase certain products (Thomson, Laing, & McKee, 2007; Polya & Szucs, 2013). Meanwhile, education gave various perception on product values, such as functional, financial, individual, and social values. Thus, education was also an important demographic variable that affects the purchase decision (Srinivasan, Srivastava, & Bhanot, 2014).

Percentage (%) Characteristic Percentage (%) Characteristic Age (year): Education (year): 19 - 245.34 Less than 6 4.85 25 - 4031.55 4.85 40 - 4929.13 9 12.62 12 More than 50 33.98 38.83 Religion: More than 12 38.83 82.52 Islam Job-status: Christianity 15.05 Full-time 14.08 Buddhism 2.43 Part-time 2.91 Ethnicity: Student 3.40 Malay 50.49 Unemployment 3.88 Java 17.48 Retired 22.33 13.59 Dayak Housewife 53.40 5.83 Time of purchase: Bugis **Others** 12.62 Beginning of month 60.68 Family members: Middle of month 16.99 6.31 End of month 21.36 2 7.28 Expenditure (Rupiah):

Less than 279,800

More than 419,600

279,800 — less than 19,600

90.78

6.31

6.31

22.82

21.84

29.61

6.80 4.85 0.49

TABLE 1. THE CONSUMERS' CHARACTERISTICS OF SEAFOOD PRODUCTS

Based on the job-status of the participants, most seafood product purchase decisions were made by the housewives as they often shopped in retail markets (Ahmed, Zamir, Yazdani, & Mehmood, 2016) and chose types of products as well as food according to others' benefit experiences (Kumaravel, 2017) and psychological factors (Widodo, Rusimah, & Choirunisa, 2018). Time of purchase implies the level of decision-making time to anticipate regrets and achieve purchase satisfaction. Buying seafood products in the beginnings of the months reflects the perceived time of shopping situation (Moon & Lee, 2013) due to the payday time. Last but not least, in the consumer expenditure, a certain amount of spending was influenced by the amount of income received, rational spending pattern, as well as socioeconomic and demographic factors (Mattila & Wiro, 1999; Wilska, 2002).

The Consumer Preference

3

5

6

The second part was consumer preference of seafood products, which was defined as consumer purchase satisfaction. It reflects the product attribute value for ensuring acceptability behavior and social intervention, such as product features, functions (physiological, social, and psychological), and benefits as shown in Figure 1 and Figure 2.

In Figure 1, observed and estimated preferences have a very strong relationship. Product features was the most important dimension in consumer preference, followed by social function, product benefits, physiological function, and psychological function. These findings were in line with consumer characteristics. Age, religion, ethnicity, family members, education, job-status, time of purchase, and expenditure were significant factors in consumer

values and actions, displaying a distinct pattern in buying behavior and perception on product attributes.

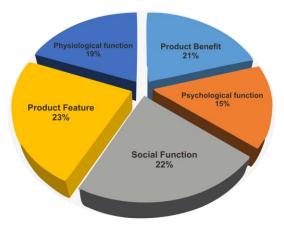


FIGURE 1. THE ATTRIBUTE DIMENSIONS OF A PRODUCT FEATURES, FUNCTIONS, AND BENEFITS OF SEAFOOD PRODUCTS

Product features affect buying satisfaction (Tanzila, Sohail, & Tanveer, 2015) due to consumer emotional or cognitive knowledge of a particular experience at a particular time (Giese & Cote, 2000). In addition, purchase satisfaction also gives the producer loyalty based on trust, perceived value, and positive emotional attachment (Rahmatiyah, Yulianto, & Kusumawati, 2017; Scridon, Achim, Pintea, & Gavriletea, 2019).

On the other hand, the social function provides a cognitive process of understanding the targeted communication with emotions (Bagozzi, Gopinath, & Nyer, 1999). These emotions provide embodied information about the costs and benefits of an action which were assumed to explain some of the purchased items (Zadra & Clore, 2011). The balance of positive and negative emotions will drive to consumer decision making (Soodan, V. Pandey, 2016).

The product benefit dimension was the main key for sustaining the perceived values of utility, benefits, quality, and satisfaction in the market competition (Morar, 2013; Aulia *et al.*, 2016). The higher perceived value level indicates the higher direct effect over the consumer repurchase intention (Hellier, Geursen, Carr, & Rickard, 2003), loyalty (Ramadhan & Siagian, 2019), and satisfaction (Raji & Zaina, 2016).

Consumer characteristics considered as an active interpreters of marketing, so marketers have to look into both the consumer physiological and psychological character traits. These traits directly affect the need, the desire, and how stimuli are interpreted (Vainikka, 2015). In psychological attributes, consumers are bound to have cognitive, emotional, and behavioral predispositions (Park, MacInnis, & Priester, 2007). The intensity of psychological attributes affects both consumers' negative and positive attitude responses and producers' advertising responses (Loken, 2006). The physiological attributes are those related to the physical body that affects the thinking and certain types of attitudes that predispose consumer preference (Lefcheck, Whalen, Davenport, Stone, & Duffy, 2013; Vainikka, 2015). Each attribute of product features, physiological function, social function, psychological function, and benefit dimensions as shown in Figure 2.

In Figure 2, negative and positive utility attributes reflect the decreasing and increasing pleasure of consumer preference. The negative attributes were referred to as the risks or negative impacts of the consumer purchase decision (Nguyen & Gizaw, 2014). Figure 2 also shows the attributes that could not meet the priority of purchasing decision-making or deficiency to interact with what consumers think and act on (Zia, 2017).

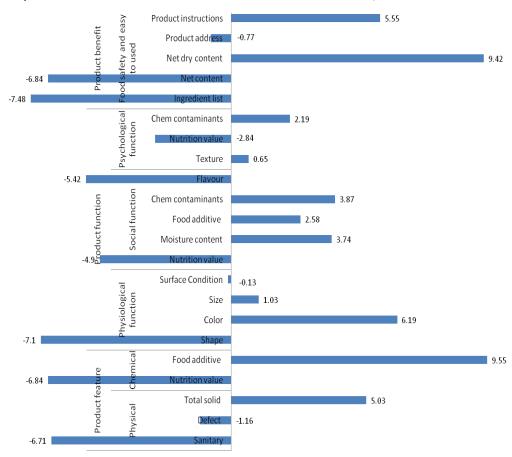


FIGURE 2. THE PRODUCT UTILITY ATTRIBUTES OF FEATURE, PHYSIOLOGICAL FUNCTION, SOCIAL FUNCTION, PSYCHOLOGICAL FUNCTION, AND PRODUCT BENEFITS DIMENSIONS OF SEAFOOD PRODUCTS

The attributes that most influence consumer preference were food additive (the chemicals in product features) and net dry content (food safety and easy-to-use feature in product benefits), followed by color (physiological aspect in product functions), product instruction (food safety and ease of use in product benefits), total solidness (physical aspect in product features), chemical content (social aspect in product functions), moisture content (social aspect in product functions), chemical content (psychological aspect in product functions), size (physiological aspect in product features), and texture (psychological aspect in product functions).

The chemical content as food additives in the product features attracted potential consumers. The chemical taste enhancers (Thunström, 2009) improve the product quality and functionality, which are from seafood, plants, mushrooms, animal sources, and other functional materials (Bashir, Kim, An, Sohn, & Choi, 2017). However, the use of chemical food additives should be conducted by considering food safety and including them in

information label on the packaging (Tarnavölgyi, 2003; Sachithananthan, 2017). Net dry content in food safety and ease of use in product benefits are the dimensions that explain the consumers' reasons for purchasing the products by utilizing their cognitive processing based on prior knowledge that focuses on important information and health decisions (Miller & Cassady, 2015).

In the physiological function, there was a strong relationship of colors with moods and behaviors (Küller, Ballal, Laike, Mikellides, & Tonello, 2006; Kurt & Osueke, 2014) due to the basic neurological stimulation as a form of specific brain responses (Valdez & Mehrabian, 1994). Thus, marketers should be able to identify emotional benefits for a brand identity. At the same time, there were issues of food naturalness and authenticity in terms of food safety and easy-to-use feature in food distribution demanded by consumers (Yeung & Morris, 2001; Fontes *et al.*, 2015). The perception of healthy ingredients became a marketing strategy for restoring the purchase intention and mitigated the blame among consumers (Roy, Tata, & Parsad, 2018).

In physical products, consumer preference on seafood products were solid (Loporcaro, Campo, & Baldassarre, 2017). It was critical for producers, processors, and fishers to understand the food item physical properties in their jobs (Ward & Beyens, 2012). Producers must be knowledgeable in force and deformation as they are fracturing the food mechanics (Vincent, 2004), in which the rheology of certain food products is (Schurz, 1967) when changing raw products into usable products.

Furthermore, consumers were concerned about chem-contaminated products because of other consumers' observation, objective information from the media, social networks, and past contamination (Frank & Schvaneveldt, 2016). Changes in moisture content can affect a product's internal structures (Figueroa, Moraes, & Maestri, 2015), as in the surface becomes rougher, getting more turgid, less crisp, and stiff (Hawaree, Chiewchan, & Devahastin, 2009; Onwulata *et al.*, 2013).

In food additive social function, consumers tended to have more positive attitudes and intentions toward fishery products due to sufficient information on food additives (Seo, Kim, & Shim, 2014). Creating awareness and knowledge about food additives through the content information on the product package is one way to educate consumers about product contents (Sachithananthan, 2017). The avoidance of food additives is highly influenced by knowledge level (Szűcs, Szabó, Guerrero, Tarcea, & Bánáti, 2019).

Consumers also expressed strong concerns about psychological chemical contents due to severe long-term consequences (Kher *et al.*, 2013). Consumers considered traceability as a useful tool to improve consumer confidence in food safety (Zhang, Mankad, & Ariyawardana, 2020). The physiological of size as part of product feature affected consumer decision due to sufficient resolution in capturing images of consumer acceptance and product success (Lautiainen, 2015). Therefore, it will help advertisers, producers, managers, and designers to make the most appropriate choice with potential benefits and effectiveness (Nurliza & Dolorosa, 2017).

Regarding texture, as part of psychological function, the positive hedonic response was associated with specific sensory cues. Consumers considered that sensory cues influence the way food tastes and textures, how it feels in the mouth, as well as the food rheological (Stokes *et al.*, 2013; Pramudya & Seo, 2019) through cutting, shearing, chewing, compressing, or stretching (Kohyama, 2020). However, consumers had less hedonic pleasure of ingredient list and net content (food safety and ease of use in product benefits); physiological aspect in product functions; nutrition value (psychological and social aspects in product functions); nutrition value (the chemicals in product feature), sanitary, and defect (physical aspect in product feature). Therefore, producers need to consider seafood products' shape and surface with innovative, attractive, as well as understandable ideas (Girard & Payrat, 2017) and improve the texture for sensory cues but with a supportive environment (McCrickerd & Forde, 2016).

Market Identification and Competition Analysis

Market identification and competition analyses for seafood products prove that all of the primary benefits of product characteristics are quite appropriate, and the price is appropriate and affordable for consumers as shown in Table 2.

TABLE 2. THE PRICE OF UNBUNDLED OR BUNDLED OFFERS COMPARES TO THE PRIMARY BENEFIT OF PRODUCT CHARACTERISTICS

Product characteristics	Benefit Product characteristics				
	Very inappropriate	Inappropriate	Quite appropriate	Appropriate	Very appropriate
Price (%)	5.56	55.56	18.18	7.07	13.64
Shape (%)		7.07	25.25	58.59	9.09
Color (%)		2.02	37.88	54.04	6.06
Surface condition (%)		3.03	37.88	51.52	7.58
Texture (%)		3.03	30.81	57.07	9.09
Sanity (%)		9.09	28.79	55.56	6.57
Defect (%)		20.20	22.22	39.39	18.18
Total Solid (%)		8.59	40.91	40.91	9.60
Nutrition value (%)		11.11	47.47	37.37	4.04
Moisture content (%)		6.06	54.04	34.85	5.05
Food additive (%)		16.16	54.55	23.23	6.06
Chem contaminants (%)		23.74	40.91	28.79	6.57
Taste (%)		1.01	29.29	58.08	11.62
Aroma (%)		6.57	43.94	37.88	11.62
Flavor (%)		1.52	32.83	56.06	9.60
The physiological functions (%)		10.10	47.47	39.90	2.53
The social function of food (%)		20.71	46.46	25.76	7.07
The psychological functions of food (%)		8.08	47.98	38.89	5.05
Food safety (%)	1	30.30	29.80	29.29	10.10
Easy to used (%)			23.23	59.60	17.17
Affordability (%)			22.73	48.48	28.79

The regression model analysis of the benefits of seafood products simultaneously explains the prices as shown in Table 3.

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The benefits of seafood product characteristics (nutrition in chemical benefits, the flavor in sensory benefits, and food safety) positively related to price. Consumers pay different primary levels of benefits or higher levels of each benefit (D'Aveni, 2007) but markets tended to cover at the same price because there was no distance and disparities of price benefits or no price deviation (Figure 3).

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	Parameters	Estimate	Wald
Threshold	[price = 1,00]	-1.218 (1.690)	.519
	[price = 2,00]	2.324 (1.689)	1.894
	[price = 3,00]	3.293 (1.697)	3.768
	[price = 4,00]	3.826 (1.702)	5.050
Location	Shape	377 (.232)	2.647
	Color	128 (.266)	.233
	Surface	.406 (.287)	2.001
	Texture	433 (.277)	2.447
	Sanity	024 (.222)	.012
	Defect	115 (.175)	.430
	Solid	198 (.226)	.768
	Nutrition	.421 (.240)	3.088*
	Moisture	241 (.250)	.929
	Additive	.052 (.251)	.043
	Chem	.318 (.214)	2.204
	Taste	.322 (.286)	1.272
	Aroma	055 (.218)	.063
	Flavor	509 (.265)	3.696
	Physiological	.138 (.263)	.276
	Social	.014 (.198)	.005
	Psychological	.166 (.249)	.445
	Food safety	.279 (.168)	2.768*
	Easy	.320 (.293)	1.190
	Affordability	.215 (.235)	.833

() Error Std. *, **, *** $\alpha = 10\%$, 5%, 1%

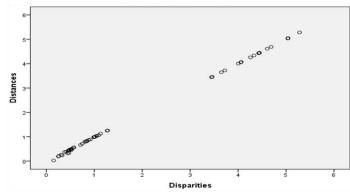


FIGURE 3. THE CONSISTENCY TEST OF THE RESPONDENT'S ATTITUDE

Dimensions of seafood products for market identification and competition illustrated in Figure 4, as well as respondents' attitude toward product feature attributes (the first dimension), product function attribute dimension (the second dimension), and product accessibility attribute dimension (the third dimension). Products in the same dimension

competed with each other, while products in different dimensions were complement or independent.

In Figure 4, shredded fish, shrimp paste, surimi, canned fish, crackers, salted fish, cencalok, empek-empek, and presto competed in product feature attributes. While botok and curry competed in product function. However, all the seafood products were complements or independent in product accessibility.

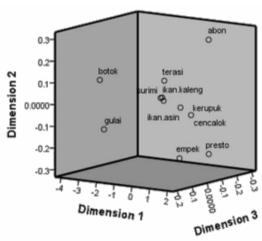


FIGURE 4. DIMENSIONS OF SEAFOOD PRODUCTS FOR MARKET IDENTIFICATION AND COMPETITION

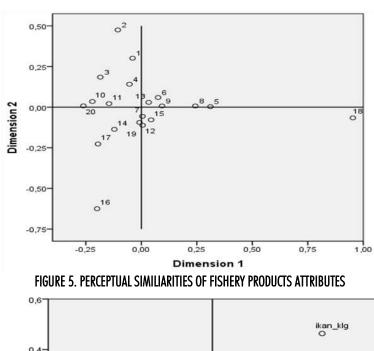
Perceptual Mapping for Competitive Positioning

The relative perceived strengths and weaknesses prove that mostly, seafood product attributes have the same level of similarity and satisfaction as shown in Table 4.

Attributes	Level of Similiarity				Level of Satisfaction		
	Very similar	Similar	Quite similar	Different	Very different	Unsatisfied	Satisfied
Shape (%)	16.90	42.57	24.24	14.86	1.43	12.63	87.37
Color (%)	15.07	40.73	26.48	15.68	2.04	12.58	87.42
Surface condition (%)	16.33	48.75	31.41	1.21	2.30	12.09	87.91
Texture (%)	19.59	38.57	30.01	10.20	1.63	9.83	90.17
Sanity (%)	14.49	35.71	36.53	11.84	1.43	12.6	87.4
Defect (%)	12.37	33.20	34.85	17.11	2.47	9.83	90.17
Total Solid (%)	18.00	35.17	33.13	12.88	0.82	21.69	78.31
Nutrition value (%)	12.50	40.98	35.25	9.43	1.84	27.50	72.50
Moisture content (%)	14.00	41.00	36.00	8.00	1.00	14.52	85.48
Food additive (%)	12.00	46.00	31.00	8.00	3.00	24.38	75.62
Chem contaminants (%)	15.00	0	54.00	26.00	5.00	24.38	75.62
Taste (%)	10.00	38.00	36.00	14.00	2.00	13.35	86.65
Aroma (%)	9.00	37.00	36.00	15.00	3.00	17.00	83.00
Flavor (%)	11.00	35.00	36.00	16.00	2.00	17.00	83.00
The physiological functions (%)	14.00	32.00	46.00	6.00	2.00	34.00	66.00
The social function of food (%)	20.00	40.00	32.00	8.00	0	13.00	87.00
The psychological functions of food (%)	20.30	36.70	33.10	9.20	0.60	36.00	64.00
Food safety (%)	21.00	47,50	22.05	4.95	4.05	31.00	69.00
Easy to used (%)	20.70	45.30	24.00	8.00	1.80	6.00	94.00
Affordability	23.69	39.83	22.64	10.90	2.93	17.00	83.00

TABLE 4. SIMILIARITY AND SATISFACTION LEVEL OF FISHERY PRODUCTS ATTIBUTES

Meanwhile, customer satisfaction levels on the attributes of seafood products show some similarities (Figure 5), which was in line with the results of consumer perception in the perceptual distribution (Figure 6).



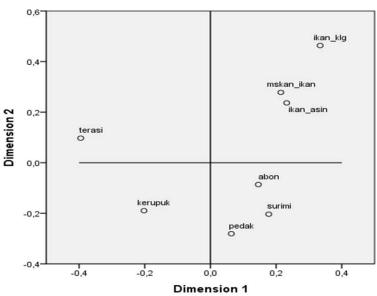


FIGURE 6. PERCEPTUAL DISTRIBUTION OF SEAFOOD PRODUCTS

It showed that canned fish, dried fish, and salted fish provide similar satisfaction. Shredded fish, *surimi*, and *pedak* also provide similar satisfaction. However, the shrimp paste and crackers provide different satisfaction in their distribution, which leads to a willingness to pay (WTP) at higher prices, while perceived risk influences behavioral intention (Demirgüneş, 2015). The perceptual distribution combination of seafood product attributes as shown in Figure 7.

In Figure 7, the groups of seafood product attribute with similar satisfaction: (i) *pedak*, crackers, shrimp paste, and salted fish; and (ii) *surimi*, dried fish, shrimp paste, shredded fish, and canned fish. These findings illustrate that the group of *pedak*, crackers, shrimp paste, and salted fish can compete with the group of *surimi*, dried fish, shrimp paste, shredded fish, and canned fish. Meanwhile, the best attributes of seafood products is presented in Table 5.

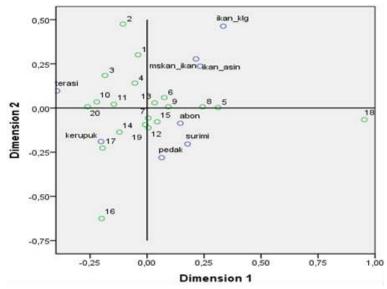


FIGURE 7. PERCEPTUAL DISTRIBUTION COMBINATION OF SEAFOOD PRODUCT ATTRIBUTES

Seafood products	The best attributes			
canned fish, dried fish, and salted fish	freshness, durability, nutritional value, moisture content, and			
	food safety through labels (5, 6, 8, 9, 18)			
shredded fish, <i>surimi</i> , and <i>pedak</i>	density, nutritional value, moisture content, taste, physiological			
·	function, and easy-to-use feature (7, 8, 9, 12, 15, 19)			
cracker's	taste, social function, psychological function, and affordability			
	(14, 16, 17, 20)			
shrimp paste	shape, color, surface condition, texture, additive content,			

TABLE 5. THE BEST ATTRIBUTES OF SEAFOOD PRODUCTS

There is no need to compete with each other in the similar perception of seafood products. In Table 2, group of seafood product can compete to each other by using their best attributes. The group of canned fish, dried fish, and salted fish can use the attribute of freshness, durability, and food safety through labels by being transported and packed to processing plants (Song, Moon, Chen, & Houston, 2018) and food storage facilities (Nagar, 2007). Meanwhile, group of shredded fish, *surimi*, and *pedak* can use attribute of density, taste, physiological function, and easy-to-use feature by increasing food diversity, food fortification, and supplementation (Smith, Coffin, Miller, & Popper, 2006).

chemical, and affordability (1, 2, 3, 4, 10, 11, 20)

Crackers can use attribute of taste, social function, and psychological function by using cultural congruence between the product and the market (Song *et al.*, 2018) with certain packaging design, launch timing, and advertising. On the other hand, shrimp paste can use attribute of shape, color, surface condition, texture, additive content, and chemicals by using pasteurized before packaging, natural food additives, quick freezing, retort pouch, and cook-chilling (Venugopal, 2005).

These findings gave the ways to treat seafood products with similar and different satisfactions for customer loyalty, extend the life cycle of a customer, expand the life of merchandise the customer purchase, and deliver positive words by direct communication (Ruzzier, Ruzzier, & Hisrich, 2013). They will help make a prompt decision for the

(Nurliza *et al.*)

continuous improvement of the business or management approaches about customer expectation. Thus, stakeholders can use these seafood product best attributes to formulate competitive positioning in marketing strategy and communication to ensure consumer satisfaction and producer profit.

CONCLUSION

Product features was the most important dimension in consumer preference that was in line with consumer characteristics. Food additive and net dry content are the most attributes that influence consumer preference, while the benefits of seafood product characteristics positively related to price. The findings proved canned fish, dried fish, and salted fish competed on freshness, durability, and food safety (labels). Shredded fish, *surimi*, and *pedak* competed on density, taste, physiological function, and easy-to-use feature by increasing food diversity, fortification, and supplementation. Crackers competed on taste, social function, and psychological function. Shrimp paste competed on shape, color, surface condition, texture, additive content, and chemicals. Thus, there were concerns in marketing strategy and communication to ensure consumer satisfaction and producer profit, such as transporting and packing to processing plants and food storage facilities. Besides, it was necessary to increase food diversity, food fortification, and supplementation. Certain packaging designs, launch timing, and advertising were needed in cultural congruence between the product and the market. Pasteurization was needed before packaging, as well as natural food additives, quick freezing, retort pouch, and cook-chilling.

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