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Development Strategy of Smoked Fish Product in Increasing Business Income in North Semarang District

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Abstract

Bandarharjo, North Semarang District has great potential to advance industrialization. The problem of this research was the decline of smoked fish product in Bandarharjo, North Semarang city. The purpose of this study was to describe the amount of costs and incomes in order to create business development strategies to overcome the obstacles faced by smoked fish entrepreneurs and increase smoked fish business income in Bandaharjo. This study used a quantitative approach. The population in this study was 25 smoked fish entrepreneurs in Bandarharjo. Data collection techniques were using interviews, documentation and questionnaires. The analysis technique used was descriptive percentage, net B / C ratio, payback period and SWOT analysis. The results of B / C ratio showed that the Period values was around 1.15, and Payback values was around 0.64. The SWOT strategy results in terms of EI strength are adequate capital, a strategic location for fumigation operations, easily accessible and can build business with relevant agencies. Then the weaknesses are business research and development has not been done, the management information system and the financial reporting system have not been running well. Opportunities offered are economic growth in Semarang significantly increased as well as the development and training of Micro Small and Medium Enterprises (MSMEs) by the government. Then the threat received is an increase in the price of raw materials.

INTRODUCTION

The In Indonesia, the development of Small Medium Enterprises (SMEs) has not experienced a maximum increase. This is due to the lack of attention from the government and society. The government attention towards SMEs began to increase since the issuance of Presidential Instruction No. 6 of 2007 concerning to the Policy to Accelerate the Development of Real Sector and Empowerment of Micro Small and Medium Enterprises.

North Semarang District is a coastal area that has abundant marine products, so that most of the population earns their main livelihood as fishermen. Aside from being fishermen, some residents also cultivate their land as fish ponds. The famous centers of processed seafood products in North Semarang District are Smoked Fish, Presto Milkfish, Fish Skin Chips, Fish Crackers, and other processed fish.

Smoked fish is the most dominant product compared to the others because it has a lot of demand. One reason is that those who are able to win the buyers hearts are those who plan the process of selling their goods carefully and using the basics of good marketing (Afridal, 2017). Up to this time, the number of smoked fish/fish grill SMEs in Bandarharjo sub-district of North Semarang district is listed amount 25 active members. In running their business, SMEs always face various factors dealing with obtaining income, as Anoraga (2002: 250) stated that the problem factors faced by SMEs in running their businesses are marketing problems, partnership factors, and human resource factors. Meanwhile, J.B.Say (Mulyadi, 2008: 5) assumed that increase in production will always be accompanied by an increase in income. SMEs especially in Indonesia face two main problems in the financial aspect and star-cup capital as well as long-term financial and capital access. (James and Akrasanee in Tambunan and Asruni, 2012; Tambunan, 2002).

Problem Formulation

Based on the background of study, the problems are formulated as follows:

1. How are the internal factors which have strengths and weaknesses for smoked fish

- businesses in increasing business income in North Semarang District?
- 2. How are the external factors which become opportunities and threats for smoked fish businesses in increasing business income in North Semarang District?
- 3. How are the development strategies for smoked fish products in increasing business income in North Semarang District?
- 4. How is the impact of smoked fish product development strategy in increasing business income in North Semarang District?

Research Objectives

The objectives of this study are: analyzing internal factors which have strengths and weaknesses for smoked fish business, analyzing external factors which become opportunities and threats for smoked fish business, analyzing development strategies for smoked fish products and analyzing the impact of development strategies for smoked fish products in increasing business income in North Semarang District.

METHODS

The research method used in this study was descriptive qualitative which aimed to describe the development strategy for smoked fish products in increasing business income in North Semarang District. Sources of data in the study were selected using a purposive sampling technique. The sample criteria used in this study was members who have an initial capital less than Rp. 6,000,000.

The population in this study was all members of smoked fish business cluster, amounting to 25 SME members in Bandaharjo sub-district, North Semarang District. Population is a region of generalization consisting of objects / subjects that have certain qualities and characteristics determined by researchers to be studied and drawing conclusions (Sugiyono, 2010: 117). Data collection techniques were done through questionnaire, observation, interview and documentation.

The data obtained was then used for descriptive analysis, costs and benefits analysis, SWOT analysis and drawing conclusions.

Table 1. SWOT Matrix

IFAS	STRENGTH (S)	WEAKNESS (W)
	Determine 5-10 internal strength	Determine 5-10 internal weakness factors
EFAS	factors	
OPPORTUNITIES (O)	SO STRATEGY	WO STRATEGY
Determine 5-10 external	Create strategies that use power to	Create strategies that minimize weaknesses
opportunity factors	take advantage of opportunities	to take advantage of opportunities
THREATS (T)	ST STRATEGY	WT STRATEGY
Determine 5-10 external	Create strategies that use power to	Create strategies that minimize weaknesses
threat factors	overcome threats	and avoid threats

Source: Rangkuti 2014

Data Analysis Method Analysis of Internal and External Factors

SWOT analysis was used to find out what strategies will be used. The benefit of SWOT analysis is to increase organizational knowledge and understanding (Rahardi, 2008). The matrix below can produce 4 alternative possible cells, namely: Strength Opportunities Strategy, Strength Threats Strategy, Weakness Opportunities Strategy, and Weakness Threats Strategy.

RESULTS AND DISCUSSION

Formulation of Smoked Fish Business Development Strategy in North Semarang District Internal and external environmental analysis can identify the following strengths, weaknesses, opportunities and threats:

a. Internal Factors that make Strength and Weakness of Smoked Fish Business in Bandarharjo Sub-district

The analysis of the internal environment produced six strengths and five weaknesses, which each of them must be addressed properly in order to take advantage of opportunities and overcome threats. In the analysis of internal environment, namely the trends of online sales were very helpful for entrepreneurs in selling or marketing their products. Because the lack of media mastery has an impact on marketing. (Fadilah Andi, et al 2018). The summary of strengths and weaknesses from internal factors can be seen in Table 2.

Table 2. The Analysis Results of Internal Factors of the Smoked Fish Business in Bandarharjo Subdistrict

Indicator	Strength	Weakness
Marketing	Marketing is carried out in a modern way	-
Management	The management system is implemented by the	-
	business owner properly	
	Establish good cooperation with relevant agencies	
Finance	Adequate capital	Financial accounting system is
		not optimal
		Relatively high business costs
Operation	Strategic fumigation operational locations and easy	-
	to reach	
	Adequate business support facilities	
Research and	-	Research and development
development		have not been conducted
		Research is not optimal
Information	-	Management information
Systems		system has not been running
		well

Source: Primary data processed in 2020

 External Factors that make Opportunities and Threats for Smoked Fish Business in Bandarharjo Sub-district, North Semarang District

The results of external factors analysis showed that there were five opportunities that could be exploited and six threats that had to be

overcome by smoked fish businessmen in Bandarharjo Sub-district. A number of opportunities and threats obtained from the analysis include economic, social, cultural and technological aspects. Opportunities and threats are summarized in the following table.

Table 3. The Analysis Results of External Factors of Smoked Fish Business in Bandarharjo Sub-district

Indicator	Opportunity	Threat
Economy	The economic growth of Semarang	The price of raw materials fluctuates and
	City is increasing	tends to increase
Socia1	The increase in consumption and raw	-
	materials	
	The population is increasing	
Culture	The habits of Semarang City society in	Financial accounting system is not optimal
	consuming fish or processed seafood	Relatively high business costs
Technology	-	The development of information and
		communication technology is very fast
Politics,	SMEs training and coaching from the	Society assessment towards the existence of
Government	government	SMEs
Competition of	-	Market price competition
similar companies	3	
New competitor	-	There are no barriers to entry for new
		competitors
Strong big traders	-	Wholesalers or product collectors are very
		strong

Source: Primary data processed in 2020

Strategy for Smoked Fish Business Development in Bandarharjo Sub-District, North Semarang District

1) SWOT Analysis

SWOT stands for Strengths, Weaknesses, Opportunities and Threats (Grant, 2007). SWOT analysis organizes the main strengths, weaknesses, opportunities and threats into an organized list and is usually presented in a simple grid. The formulation of each strategy refers to the position results obtained from the IE matrix, namely keep and maintain with a general strategy for market penetration and product development. Strategy formulation is the development of a long-term plan for effective management of environmental opportunities and threats, seen from the strengths and weaknesses of the company. The strategies formulated become more specific depending on the management functional activities (Hunger and Wheelen, 2003).

2) Analysis of IFE (Internal Factor Evaluation) Matrix

Weighting on the strength and weakness indicators carried out by the paired comparison method. IFE (Internal Factor Evaluation) matrix calculation results showed the total weighted value of internal strategic factors was 2,417. This indicates that the internal position of smoked fish business in Bandarharjo Sub-district is above average in utilizing its strengths and overcoming its internal weaknesses.

3) Analysis of EFE (External Factor Evaluation) Matrix

The external conditions faced by the smoked fish business in Bandarharjo Sub-district are illustrated by the results of EFE (External Factor Evaluation) matrix analysis.

The total weighted value of EFE matrix for smoked fish business in Bandarharjo Sub-district is 2,538. This means that the external position of smoked fish business in Bandarharjo is still above

average in utilizing opportunities and avoiding external threats.

4) Analysis of IE (Internal - External) Matrix

The results of the IFE and EFE matrices in the form of a total weighted value are mapped into the IE matrix. The total weighted value of IFE is mapped on the X axis, while the total weighted value of EFE is mapped on the Y axis. Based on the results of the mapping, the position of smoked fish business cells in Bandarharjo Sub-district can be determined in order to direct to the next strategy that must be implemented.

Total Rata-rata Tertimbang IFE

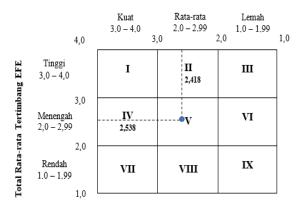


Figure 1. Mapping Results of IE Matrix Analysis

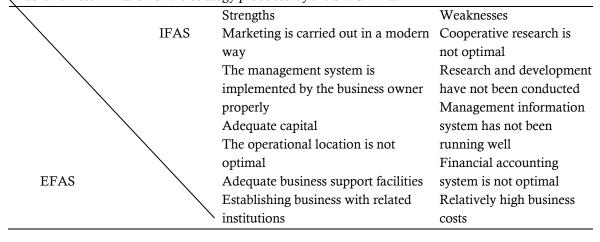
The mapping results of the IFE and EFE weighted value can be seen in the IE matrix of smoked fish business in Bandarharjo Sub-district. The IFE total weighted was 2,418 (average) and the EFE total weighted was 2,581 (medium), which placed smoked fish business in Bandarharjo Sub-district in cell V. These results indicate that

smoked fish business is in the keep and maintain condition. In this cell, a common strategy used is market penetration and product development (Rusdarti, 2015). Market penetration is an effort to increase market share of a product or service through a more vigorous marketing effort (David, 2006: 233). A very tight competition in the smoked fish business in Bandarharjo Sub-district become more aggressive in penetrating the market. Meanwhile, the product development strategy refers to a strategy to increase sales by improving or modifying existing products or services (David, 2006: 233).

5) SWOT Matrix Analysis

This SWOT matrix can produce four possible alternative cell strategies. The S-O strategy requires companies to be able to utilize opportunities through their internal strength. The W-O strategy requires companies to minimize weaknesses in order to exploit opportunities. The S-T strategy is used to optimize strength in avoiding threats and WT strategy is used to minimize weaknesses and avoid threats (Rangkuti, 2006). Matching internal key factors (strengths and weaknesses) and external key factors (opportunities and threats) is an effective strategy to produce a more viable strategy (David, 2009: 327). The formulation of each strategy refers to the position results obtained in the IE matrix, namely keep and maintain using a general strategy for market penetration and product development.

Table 4. Determination of the Strategy produced by the SWOT matrix



	20.0:	THO C
Opportunities	SO Strategy	WO Strategy
Economic growth in Semarang	Develop a promotion strategy that	Developing the employees
City is increasing	can increase sales	ability to be more optimal
Increase on consumption and raw	Managing the fumigation area into a	in every job they do
materials	smoked fish craftsman tourism area	Establish good
The population is increasing	and culinary tourism by offering	cooperation among
SMEs Coaching and training	food from processed smoked fish to	business members of the
given by the government	become a special cuisine and can	smoked fish in managing
	increase the selling value	the smoked fish business
Threats	ST Strategy	WT Strategy
The price of raw materials	Improve the management systems	Improve managerial ability
fluctuates and tends to increase	for controlling raw material	of business owners
The development of information	inventories to avoid price	Maintain continuity of raw
and communication technology	competition	materials in increasing
is very fast	Establish good cooperation with	production by adding
Market price competition	suppliers of raw materials in order to	other types of fish that can
There are no barriers to entry for	get its good quality	be processed become
new competitors		smoked fish products.
Wholesalers or product collectors		
are very strong		
Community assessment towards		
the existence of SMEs		

Strategy formulation is the development of a long-term plan for effective management of environmental opportunities and threats, seen from the strengths and weaknesses of the company. The strategies formulated are more specific depending on the functional activities of management (Hunger and Wheelen, 2003). Discussion of alternative strategies produced by

Source: Primary data processed in 2020

Economic Feasibility

1) Calculation of Benefit Cost Ratio

the SWOT matrix presented in table 4

An industrial economy is said to have economic benefits and feasible to carry out if the BCR value > 1. If the BCR value <1 then the business will bring economic losses. Based on the calculation results, it was known that the average value of BCR was 1.15 which means that each milkfish fumigation businesses is feasible to run.

Table 5. Calculation of Benefit Cost Ratio

Business Owner Name	Benefit Cost Ratio
Suyatmi	1.17
Istiada	1.15
Artinah	1.14
Wartinah	1.17
Sulistyowati	1.14

Sa'at	1.20
Sukini	1.12
Jamilatun	1.19
Sunardi	1.20
Nafiin	1.15
Maryati	1.19
Sumarmi	1.12
Siti Solekah	1.11
Subowo	1.14
Paiman	1.12
Solekah	1.20
Heru Sulistiyono	1.12
Sukhaimi	1.12
Sukarno	1.14
Makmur	1.12
Edy Pramono	1.12
Wartiah	1.14
Rustiyono	1.20
Kumeidi	1.12
Kandar	1.12

Source: Primary data processed in 2020

2) Calculation of Payback Period

Table 6 showed the economic feasibility results of the smoked fish business using the payback period analysis. For determining decision making, the maximum payback period is

compared to the investment payback period. If the payback period is shorter than the maximum payback period required, the investment will be carried out. However, if the payback period is longer than the maximum payback period, the investment is rejected or is not feasible. The payback period is set for 1 year. Economic feasibility using payback period showed that 25 business units are feasible to carry out because the average value of the investment payback period is 0.64 years.

Table 6. Calculation of Payback Period

Business Owner Name Payback Period Suyatmi 1.17 Istiada 1.15 Artinah 1.14 Wartinah 1.17 Sulistyowati 1.14 Sa'at 1.20 Sukini 1.12 Jamilatun 1.19 Sunardi 1.20 Nafiin 1.15 Maryati 1.19 Sumarmi 1.12 Siti Solekah 1.11 Subowo 1.14 Paiman 1.12 Solekah 1.20
Istiada 1.15 Artinah 1.14 Wartinah 1.17 Sulistyowati 1.14 Sa'at 1.20 Sukini 1.12 Jamilatun 1.19 Sunardi 1.20 Nafiin 1.15 Maryati 1.19 Sumarmi 1.12 Siti Solekah 1.11 Subowo 1.14 Paiman 1.12 Solekah 1.20
Artinah 1.14 Wartinah 1.17 Sulistyowati 1.14 Sa'at 1.20 Sukini 1.12 Jamilatun 1.19 Sunardi 1.20 Nafiin 1.15 Maryati 1.19 Sumarmi 1.12 Siti Solekah 1.11 Subowo 1.14 Paiman 1.12 Solekah 1.20
Wartinah 1.17 Sulistyowati 1.14 Sa'at 1.20 Sukini 1.12 Jamilatun 1.19 Sunardi 1.20 Nafiin 1.15 Maryati 1.19 Sumarmi 1.12 Siti Solekah 1.11 Subowo 1.14 Paiman 1.12 Solekah 1.20
Sulistyowati 1.14 Sa'at 1.20 Sukini 1.12 Jamilatun 1.19 Sunardi 1.20 Nafiin 1.15 Maryati 1.19 Sumarmi 1.12 Siti Solekah 1.11 Subowo 1.14 Paiman 1.12 Solekah 1.20
Sa'at 1.20 Sukini 1.12 Jamilatun 1.19 Sunardi 1.20 Nafiin 1.15 Maryati 1.19 Sumarmi 1.12 Siti Solekah 1.11 Subowo 1.14 Paiman 1.12 Solekah 1.20
Sukini 1.12 Jamilatun 1.19 Sunardi 1.20 Nafiin 1.15 Maryati 1.19 Sumarmi 1.12 Siti Solekah 1.11 Subowo 1.14 Paiman 1.12 Solekah 1.20
Jamilatun 1.19 Sunardi 1.20 Nafiin 1.15 Maryati 1.19 Sumarmi 1.12 Siti Solekah 1.11 Subowo 1.14 Paiman 1.12 Solekah 1.20
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Nafiin 1.15 Maryati 1.19 Sumarmi 1.12 Siti Solekah 1.11 Subowo 1.14 Paiman 1.12 Solekah 1.20
Maryati 1.19 Sumarmi 1.12 Siti Solekah 1.11 Subowo 1.14 Paiman 1.12 Solekah 1.20
Sumarmi 1.12 Siti Solekah 1.11 Subowo 1.14 Paiman 1.12 Solekah 1.20
Siti Solekah 1.11 Subowo 1.14 Paiman 1.12 Solekah 1.20
Subowo 1.14 Paiman 1.12 Solekah 1.20
Paiman 1.12 Solekah 1.20
Solekah 1.20
TT 0.41 1
Heru Sulistiyono 1.12
Sukhaimi 1.12
Sukarno 1.14
Makmur 1.12
Edy Pramono 1.12
Wartiah 1.14
Rustiyono 1.20
Kumeidi 1.12
Kandar 1.12

Source: Primary data processed in 2020

CONCLUSION

The conclusions that can be drawn based on the results of the study about the development strategy of smoked fish business products in Bandarharjo Sub-District, North Semarang District.

Strengths owned by smoked fish business in Bandarharjo Sub-District successively from the largest are marketing carried out in a modern way, business owners implement good management system, adequate capital, strategic location of fumigation operations and easily accessible, adequate business supporting facilities, and establish good cooperation with relevant agencies. While five things that indicate weaknesses include cooperative research that has not been optimal, research and development has not been carried out, management information systems have not been running well, financial accounting systems have not been optimal and business costs are relatively high.

Opportunities faced by the smoked fish business in Bandarharjo Sub-District, North Semarang District include economic growth in Semarang City, increase on consumption and raw materials, habits of Semarang City society in consuming fish or processed seafood, increasing population, MSMEs coaching and training given by the government. On the other hand, threats from the external environment include the fluctuating price of raw materials and tend to increase, the development of information and communication technology is very fast, market competition, there are no barriers to entry for new competitors, wholesalers or product collectors are very strong and the society's assessment towards the existence MSMEs.

The suitable strategy applied by smoked fish business in Bandarharjo Sub-district, North Semarang District in order to develop their products according to IE matrix analysis is a market penetration strategy or product market share and product development. (Anwar, 2007). The implementation of this strategy is using SWOT matrix, namely developing promotional strategies that can increase sales, manage the fish fumigation area into smoked fish artisans and culinary tourism areas, develop employees' abilities to be more optimal in every job they do, establish good cooperation among smoked fish business members in managing the business, improve the management system of raw material inventory control to avoid price competition, establish good cooperation with suppliers of raw materials in order to get its good quality, improve managerial ability of business owner, maintaining continuity of raw materials in increasing production by adding other kinds of fish that can be processed to be smoked fish products.

The results of the B / C ratio showed that the value of the B / C ratio is around the period value of 1.15 which means that each smoked fish business is still feasible to run. Whereas, the average value of the Payback Period is 0.64, which means that economic feasibility by using payback period are feasible to be carried out for all 25 business units.

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