DETERMINANTS OF MICRO AND SMALL ENTERPRISE FOOD INDUSTRY MARKET EXPANSION IN INDONESIA

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Abstract: One of the indicators that might upgrade micro and small enterprise is the ability to expand their market target outside their location or district. The objective of this article was to analyze the determinants of market expansion for small and medium enterprise especially in the food industry in Indonesia. Market expansion is defined as selling products or services outside the district where the enterprise is located. Secondary data were utilized in the research by using the Micro and Small Enterprise Survey conducted by Statistics Indonesia in 2014 with the data of 21,380 firms. Two analysis were conducted, firstly using the logit analysis in order to differentiate between enterprises selling their products inside and outside the district. The second analysis used Tobit analysis of which the dependent variable is the share of product sold outside the district. Independent variables used in both equations are similar. The results indicated that higher education level, number of labor, value of production, number of enterprise with external finance, number of enterprise located in Java and male-owned firms resulted in higher probability of selling their product outside the district. Moreover, the same variables will also increase the share of product sold outside the district. From the two equations, it can be concluded that the government policy must be addressed in two aspects in order to upgrade the small and medium enterprises, the first is increasing the scale of the enterprises and secondly, fostering financial inclusion for these enterprises.

Keywords: micro and small enterprise, logit analysis, tobit analysis, food industry, market expansion

Abstrak: Salah satu indikator upgrading usaha mikro dan kecil (UMK) adalah kemampuan untuk memperluas pasar ke luar kota atau kabupaten. Tujuan dari artikel ini adalah untuk menganalisis faktor-faktor yang menentukan perluasan pasar usaha kecil dan menengah pada sector makanan di Indonesia. Perluasan pasar didefinisikan sebagai menjual produk atau jasa di luar kota atau kabupaten dimana UMK itu berada. Data sekunder digunakan dalam penelitian ini bersumber dari Survei Usaha Mikro dan Kecil yang dilakukan oleh Badan Pusat Statistik (BPS) pada tahun 2014 dengan jumlah usaha sebanyak 21.380 usaha. Dua analisis dilakukan, pertama menggunakan analisis logit untuk membedakan antara usaha yang menjual produknya di dalam dan luar kabupaten/kota. Analisis kedua menggunakan Tobit dimana variable dependendnya berupa pangsa produk yang dijual ke luar kabupaten/kota. Variabel independent yang digunakan pada kedua persamaan tersebut sama. Hasil kedua persamaan tersebut menunjukkan bahwa semakin tinggi tingkat pendidikan, jumlah tenaga kerja, nilai produksi, pembiayaan eksternal, UMK di Jawa dan UMK dengan pengusaha laki-laki memiliki probabilitas yang lebih tinggi untuk menjual ke luar kabupaten/kota dan akan meningkatkan pangsa produk yang dijual keluar kabupaten/kota. Kebijakan pemerintah yang dapat diambil menyangkut dua hal untuk meng-upgrade UMK yaitu peningkatan skala ekonomi dan peningkatan akses terhadap pembiayaan eksternal.

Kata kunci: UMK, analisis logit, analisis logit, sector makanan, perluasan pasar

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INTRODUCTION

In Indonesia, the types of enterprise are differed by the number of workers. Enterprise with workers less than four person is considered as micro enterprise. Meanwhile, it is called as small enterprise when the number of workers is between five until 19 workers including the owner. The contribution of small and micro enterprise in Indonesian economy was relatively small, only 43.08% of total constant GDP in 2013. Although in terms of number, 99.9% of total enterprises in Indonesia are small and micro enterprises and 93.63% of labors are working in those enterprises (Ministry of Cooperative and Small Medium Enterprise, 2014).

Tambunan (2008a) mentioned several problems faced by the micro and small enterprise causing relatively small contribution of the micro and small enterprise to the Indonesian economy. These problems are lack of capital, difficulties in procuring raw materials, lack of access to relevant business information, difficulties in marketing and distribution, low technological capabilities, high transportation costs, communication problems, problems caused by cumbersome and costly bureaucratic procedures and policies and regulations that generate market distortions. One of the problems is marketing, according to Tambunan (2008a), the small and micro enterprises mainly depend on their trading partners for selling their products through subcontracting or order from customers. According to survey conducted by Statistics Indonesia, problem in marketing is the second biggest problem faced by the small and micro enterprise which amounted to 25%. Meanwhile the biggest problem is capital (38.84%). Although many problems are faced by Indonesia’s small and micro enterprises in marketing, several of them has succeeded in exporting their products. Statistics Indonesia (2015) indicated that 0.1% of the small and micro enterprises have exported their products while the majority sell their products inside the district (89.45%).

One of the issues in small and medium enterprise marketing is selecting a market to sell their product which concerns the firm’s market expansion. Many works have been done to gain foreign market. Brewer (2001) indicated that small and medium enterprises choose their market based on three aspects, namely business factors, chance and distance. In addition, how the small and medium enterprises enter the foreign market can be classified into two modes, systematic and non-systematic international market selection (SIMS) and non international market selection (SIMS) as using objective criteria in selecting export markets which included activities such as systematic and formalized international market research activities in selecting suitable markets abroad, visits of foreign markets on fact-finding tours before entry, monitoring of national and international business press for product-related activities, and the use of published statistical sources in differentiating foreign markets. Brouthers and Nakos (2005) confirmed that small and medium enterprise which used a systematic international market selection (SIMS) will perform better in the international market. Meanwhile, most small and medium enterprises conducted a non-systematic international market selection such as pulled by business partners to be subcontractors when they obtain projects in foreign countries (Westhead et al. 2002) or it can be that a domestic client established a foreign operations (Brewer, 2001).

Another approach is determining the variables that can differentiate firm with export and non export activities, these variables include number of employees (Javalgi, White and Lee, 2000; Silvente, 2005; Bernard and Jensen, 1999), total sales (Javalgi, White and Lee, 2000; Silvente, 2005; Bhavani and Tendulkar, 2001; Lee and Habte-Giorgis, 2004), age of firm (Javalgi, White and Lee, 2000), firm ownership (Javalgi, White and Lee, 2000; Sjoholm, 2003), industry type (Javalgi, White and Lee, 2000); innovation (Pla Barber and Alegre, 2007), wages or share of wages (Silvente, 2005; Bhavani and Tendulkar, 2001; Bernard and Jensen, 1999) and imported inputs (Bas and Straus-Kahn, 2010; Aristei et al. 2013).

Most of the literature on market selection and market expansion are on foreign markets, very few discuss on domestic market especially for small and medium enterprise. On the other hand, decision of market expansion on farmers has been analyzed among others by Faschamps and Hill (2005), Shilpi and Umali-Deininger (2008) and Panda and Sreekumar (2012). Faschamps and Hill (2005) studied the determinants of coffee farmer in Uganda to sell their coffee in farmgate or travel to market. The results revealed that selling to the market was likely conducted when the quantity is large, while wealthy farmers were less likely to sell their coffee to the market. Moreover, Shilpi and Umali-
Deininger (2008) revealed that farmers will expand their market when the market facilities are improved and there is decreasing time to travel to the market. Meanwhile Panda and Sreekumar (2012) indicates that there are four variables that can shift farmer marketing channel from nonmarket participation to formal market participation, these variables are access market to information, adding value and grading the produce, infrastructure and guaranteed market.

The objective of this article was to analyze the determinants of small and micro enterprise to conduct market expansion which is indicated by selling their products outside the district, in the food and beverage industry. The food and beverage industry was selected since 78.4% of Indonesia’s small and micro enterprises in 2015 were operated in this industry.

**METHODS**

This study utilized secondary data collected by Statistics Indonesia through the Micro and Small Firm Survey conducted in 2014 which focused on the food and beverage industry with 21,380 firms included in the observation. The determinant of market expansion was classified based on Storey (1994) regarding the key components in analyzing the growth of small and medium enterprise. These key components were characteristics of entrepreneur, characteristics of SME and contextual variables. Variables included in characteristics of entrepreneur were age, education and gender; characteristics of SME included years established, number of labor, value of production and partnership meanwhile for contextual variables consisted of external finance and partnership.

This study utilized two models, namely logit and tobit model. The logit model is used since the dependent variable has minimum and maximum value or the data are censored (Gujarati, 2015). The average share of product sold outside the district was only 7.5%. In addition, 88.5% of the firms sold their product only inside the district and the rest expanded their market by selling outside the district. In both models, the independent variable is similar which is as follows:

Logit Model

\[ L_i = \alpha_1 YR_i + \alpha_2 AGE_i + \alpha_3 EDU_i + \alpha_4 LAB_i + \alpha_5 PROF_i + \alpha_6 DPART_i + \alpha_7 DLOC_i + \epsilon_i \]

Tobit Model

\[ T_i = \alpha_0 + \alpha_1 YR_i + \alpha_2 AGE_i + \alpha_3 EDU_i + \alpha_4 LAB_i + \alpha_5 PROF_i + \alpha_6 DPART_i + \alpha_7 DLOC_i + \epsilon_i \]

Description: \( L \) (market location (1 = selling outside district; 0 = selling inside district)); \( YR \) (number of years the firm established (years)); \( AGE \) (age of entrepreneur (years)); \( EDU \) (education of entrepreneur (years)); \( LAB \) (number of production labor (person)); \( PROF \) (value of production (million Rp)); \( DGEN \) (dummy for gender of entrepreneur (1 = man; 0 = woman)); \( DFIN \) (dummy for external finance (1 = firm with external finance; 0 = firm without external finance)); \( DPART \) (dummy for partnership (1 = firm with partnership; 0 = firm without partnership)); \( DLOC \) (dummy for firm location (1 = located in Java island; 0 = located outside Java island)).

The hypothesis used for all the coefficients in both models were positive. The data description showed that firm selling outside district had older firm establishment, higher education of entrepreneur, higher number of production labor and higher value of production, meanwhile older entrepreneur tended to sell their products inside district (Table 1). Older firm establishment means that the firm has more experience especially in selling the product outside the district. Greater number of production labor and value of production indicates that the firm has higher capacity therefore need to sell their product outside the district to expand their market. Meanwhile, younger entrepreneur and higher education level make entrepreneurs become more risk taker to sell their products outside the district.
In addition, the average difference between firm selling outside and inside the district was relatively small on firm establishment and age of entrepreneurs while the other three variables had higher average difference. Testing the difference between both market locations was done using t-test, it showed that two variables were not statistically different at 5% significance level between selling outside and inside the district. These two variables were firm establishment and age of entrepreneur. Meanwhile, the other three variables were difference in means between the two market locations (Table 1).

### Table 1. Data Description

| Variables                          | Market location          |
|-----------------------------------|--------------------------|
|                                   | Outside regency | Inside regency |
| Average Firm Establishment (years) | 14.84          | 14.45          |
| Average Age of Entrepreneur (years) | 46.69          | 46.89          |
| Average Education of entrepreneur (years)* | 8.21 | 7.79 |
| Average Number of production labor (person)* | 3.71 | 2.23 |
| Average Value of production (million Rp)* | 43.91 | 10.07 |

Note: * different at 5% significance level

In this article, the focus is on modeling the firm’s decision to sell outside the district. The firm’s decision to sell outside the district is assumed to be led by farmer’s willingness to maximize their profit and based on several factors (Doll and Orazem, 1984).

Following the approach of Arinloye et al. (2014) in marketing channel selection, it is assumed that a firm’s decision to sell its product outside the district is derived from the maximization of expected utility or profit the firm gained from selling outside the district. This utility is a function of a vector of factors , unknown parameters β, and an error term ε, assumed to be independent N(0,σ²) (Equation 1). It is expected that firms will decide to sell outside or inside the district that shows the most positive utility. The expected difference in utility is calculated as follows:

\[
U_j = \left[ \pi^R_{ij} - \pi^I_{ij} \right] = X^R_i \beta^R + \varepsilon^R
\]  

where \(U_j\) is the unobserved expectation operator representing the expected utility difference, \(\pi^R_{ij}\) is the utility derived from choosing to sell to outside the district if selected by firms and \(\pi^I_{ij}\) is the utility if firms sell inside the district. Firms make a subjective comparison between selling the product outside and inside the district. Firms choose to sell outside the district only when it is assumed to receive higher profit. From Equation 1, it can be inferred that the decision to sell outside the district is written as follows:

\[
Y^R_{ij} = \begin{cases} 
1 & \text{if } \left[ \pi^R_{ij} - \pi^I_{ij} \right] \geq 0 \Leftrightarrow X^R_i \beta^R \geq -\varepsilon^R \\
0 & \text{if } \left[ \pi^R_{ij} - \pi^I_{ij} \right] < 0 \Leftrightarrow X^R_i \beta^R < -\varepsilon^R 
\end{cases}
\]

The decision to sell outside the district is defined as \(Y^R_{ij}\). The choice of firm to sell outside the district \((Y^R_{ij} = 1)\) or inside the district \((Y^R_{ij} = 0)\) is expressed as follows:

\[
y^R_{ij} = \begin{cases} 
1 & \text{if } \psi^R_{ij} = \alpha_{ij}X^R_i + \varepsilon^R \geq 0 \Leftrightarrow X^R_i \alpha_{ij} \geq -\varepsilon^R \\
0 & \text{if } \psi^R_{ij} = \alpha_{ij}X^R_i + \varepsilon^R < 0 \Leftrightarrow X^R_i \alpha_{ij} < -\varepsilon^R 
\end{cases}
\]

where \(\alpha_{ij}\) is a vector of estimators and \(\varepsilon^R\) is a vector of error terms under the assumption of normal distribution, \(Y^R_{ij}\) is the dependent variable and \(Y^R_{ij}\) is the independent variables.

### RESULT

The results from the two model generated similar results. Six out of nine variables were significant in explaining the determinants of market expansion. These variable were education, number of labor, value of production, dummy for gender, dummy for external finance and dummy for location (Table 2).

For the logit model, six variables are significant. These variables are education, number of labor, value of production, gender, external finance and location. In addition, when the value of odds ratio is more than one it indicates that the variable has positive impact on the expansion. The education variable has an odds ratio of 1.065 which indicates that an increase of entrepreneur’s education by one year will increase the probability of the firm to conduct market expansion by 1.065 times meanwhile from the Tobit regression it indicates that an increase of entrepreneur’s education level by one year will increase the share of product sold outside district by 0.047. The increase of education level of entrepreneur will increase the chance of the firm to
expand outside the district and increase the share of the product sold outside the district. Higher education level of entrepreneurs will make them obtain more knowledge from their education and then will increase their capability in expanding the market. Study by Sinha (1996) in India revealed that 72% of successful entrepreneur has a minimum technical qualification while 67% of unsuccessful entrepreneur do not have any technical background.

The next significant variable was number of production labor. This variable is a proxy of firm size. The result showed that the number of production labor will increase the probability of market expansion and share of product sold outside the district. The increase of number of production labor by one person will increase the probability of market expansion by 1.159 times and the increase the share of product sold outside the district by 0.153. This result is supported by McMahon (2001) which found larger firm has significant effect to better business performance. However, different result found by Indarti and Langerberg (2004) which discovered that firm size did not associated with business success in the case of Indonesia.

The third significant variable was the firm’s value of production. The increase of value of production by one million Rupiahs will increase the probability of market expansion by 1.006 times and share of product sold outside the district by 0.001 although the coefficient was relatively small for both models. Firm with higher production will need larger market to sell their product; therefore, they need to sell outside the district.

Three dummy variables significantly affected the market expansion. The first one was gender, male-owned firm will have higher probability of market expansion and share of product sold outside the district. Male-owned firm has 1.327 higher probability to conduct market expansion compare to woman-owned firm and male-owned firm share of product sold outside the district is higher 0.329 compare to woman-owned firm. This result is supported by the studies of Mazzarol et al. (1999) which stated that men are more likely to be founders of new business and Kolvereid (1996) which indicated that men have higher entrepreneurial intentions compared to women. Study by Indarti and Langerberg (2004) on the contrary found no relation between gender and business success. Meanwhile study by Prijadi and Desiana (2017) indicates in the case of Indonesia, SMEs run by female entrepreneur will have higher sales but not higher profit and in the case of UK small listed firm, female directors has positive effect on firm performance (Pasaribu, 2017).

The second dummy variable was external finance. Firm with external finance will have 1.569 times higher probability of market expansion and 0.406 higher share of product sold outside the district. This finding is supported by the study of Kristiansen, Furuholt and Wahid (2003) on internet cafe in Indonesia, they found that small and medium internet cafe with external finance, including family and third party investment, have higher level of success. In addition, Indarti and Langerberg (2004) also found that firms outside investment (i.e family investment) are more successful.

Table 2. Determinants of market expansion

| Variables                  | Logit        | Tobit        |
|----------------------------|--------------|--------------|
|                            | Odds Ratio   | p-value      | Coefficient | p-value |
| Constant                   | 0.033 ***    | -3.114 ***   | 0.000       |
| No of years established    | 1.000        | 0.998        | 0.003       | 0.195   |
| Age of entrepreneur        | 1.001        | 0.676        | -0.002      | 0.411   |
| Education of entrepreneur  | 1.065 ***    | 0.000        | 0.047 ***   | 0.000   |
| Number of labor            | 1.159 ***    | 0.000        | 0.153 ***   | 0.000   |
| Value of production        | 1.006 ***    | 0.000        | 0.001 ***   | 0.009   |
| Dummy gender               | 1.327 ***    | 0.000        | 0.329 ***   | 0.000   |
| Dummy external finance     | 1.569 ***    | 0.000        | 0.406 ***   | 0.000   |
| Dummy partnership          | 0.896        | 0.170        | -0.056      | 0.391   |
| Dummy location             | 1.289 ***    | 0.000        | 0.175 ***   | 0.000   |
| No of observation          | 21,380       | 21,380       |
| Wald Chi²                  | 910.08 ***   | 0.000        | 91.52 ***   | 0.000   |
| Pseudo R²                  | 0.080        | 0.058        |

Note: *** significant at 1 % level; ** significant at 5% level; * significant at 10 level
The last was the dummy for location which is a proxy of infrastructure condition. Micro and small firm located in Java island had 1.289 times higher probability of market expansion and 0.179 higher share of product sold outside the district. This can be explained since the condition of infrastructure in Java island is better than outside the Java island; therefore, it is cheaper and easier to conduct market expansion in Java island. Rodriguez-Pose et al. (2013) showed that location of province in Indonesia makes an important difference in firm’s export propensity since different location has different transportation infrastructure. For farmers, Shilpi and Umali-Deininger (2008) showed that better infrastructure will make farmers expand their product market by selling to the nearest market rather than in the farm gate.

Looking at the coefficient on both models, the external finance variable had the highest coefficient. Helping micro and small enterprises with external finance will give them higher probability to conduct market expansion since the activity needs resource in order to fulfill the market expansion activities.

There were three insignificant variables, namely firm establishment, the age of entrepreneurs and dummy for partnership. Older firms most probably have experience in running the business including market expansion but the result was not significant which is also contrary to the findings of Kristiansen, Furuhol, and Wahid (2003) which found that older firms will have more probability to be more successful. Majumdar (1997) also indicated that older firm in India is more productive but less profitable compared to newer firms. On the contrary, Prijadi and Desiana (2017) found in the case of SME’s in Indonesia that younger firm will have higher sales and profit.

Age of entrepreneurs was insignificant which is supported by Indarti and Lagenberg (2004) indicated that there was no significant relationship between age and business success. Dummy for partnership was not significant which can be explained that most of the partnership conducted by micro and small enterprise is in the form of subcontracting activities and most of the subcontracting activities are mainly in the manufacturing sector such as automotives, metal, etc (Tambunan, 2008b).

From the two models, the determinants of market expansion can be classified into two categories those are internal and external of which both categories have different policy implication. In the internal aspects: education, firm size and location are the main determinants. In order to conduct market expansion, micro and small enterprises must increase their size and increase the education level of the entrepreneur. Meanwhile, the quality of infrastructure outside Java island must be improved to support the micro and small enterprise market expansion. Furthermore, the external factor is the external finance. The micro and small enterprise must be upgraded by providing additional capital in order to expand their market.

Managerial Implication

These micro and small enterprise in the future hopefully can grow into larger enterprise and contribute to the economy. From the results, it can be inferred that in order to make firm to conduct market expansion needs support in two aspects, increasing economic of scale and access to external finance. Increasing the firm’s scale will make them more efficient in production and be able to compete in the market. The support to increase the scale can be in the form of increasing the firm’s capacity through trainings. Meanwhile support on access to external finance can be in two forms. Firstly, through trainings in order to make them more bankable and secondly to connect these enterprises with banks.

CONCLUSIONS AND RECOMMENDATIONS

Conclusions

The significant determinants of market expansion were education level, number of labor, value of production, enterprise with external finance, enterprise located in Java and male-owned firm. Moreover, the same variables will also increase the share of product sold outside the district. From the significant variables, it can be inferred that market expansion is more affected by the firm’s characteristics rather than entrepreneurial characteristics.
Recommendations

Policy must be addressed in two aspects in order to upgrade the micro and small enterprises, the first is increasing the scale of the enterprises and secondly, fostering financial inclusion for these enterprises.

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