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The Influence of SME's Collaboration on SME Innovation Capabilities

Abstract

The ability to innovate is indispensable in a turbulent external environment. SME's in Bantul Yogyakarta formed a group of non-formal organizations to overcome business difficulties during the pandemic by increasing business innovation capabilities. This study also aims to examine the effect of SME's collaboration on innovation capability during the COVID-19 pandemic. This research is important to do obtain information on the effectiveness of SME collaboration to create innovation and achieve SME performance. During a pandemic where the business environment is increasingly dynamic, this research is increasingly needed to obtain an effective collaboration model. The research was conducted on 100 local processed food SME's using a quantitative approach. The research instrument was in the form of a questionnaire equippe with interviews to obtain comprehensive data and information. The analytical tool used is WarpPLS. The results show that SME's collaboration has a significant effect on innovation capabilities.

Keywords: SME's, SME's Collaboration, Innovation Capabilities.

I. INTRODUCTION

Today, the Covid-19 pandemic has also had a tremendous impact on the economy in Indonesia, thus affecting the performance of SMEs. SMEs' access to the market is hampered because the situation requires business centers to reduce their business activities or even close their activities. The uncertain business environment (environmental uncertainty) is perceived as an obstacle for SMEs to improve performance. Environmental dynamism has been felt by SMEs so that it affects the business they do.

One of the SMEs affected by the COVID-19 disaster is a SMEs engaged in the food processing sector, namely the processed food group, which is located in the Bantul area, Yogyakarta. On February 2, 2021, observations and interviews were held with processed food business actors in Bantul through the Focus Group Discussion method, according to them, the COVID-19 pandemic has greatly impacted the sustainability of their business, although not all SMEs feel the negative impact of this disaster. The impact experienced by each SME is different, such as a decrease in sales; an increase in the price of raw goods which results in an inefficient production process, stagnant product distribution, and other negative impacts. This impact causes the performance of SMEs to decline in the 2020 period, both in terms of markets and financially. There are several factors that affect the performance of SMEs, namely internal factors and external factors. The ability to innovate and collaborate among SMEs (SME Collaboration) is an internal factor that affects the performance of SMEs.

UPN "Veteran" Yogyakarta together with the Regional Government of Bantul Regency, in 2010 formed a group of locally processed food SMEs and is still developing. SME groups collaborate in overcoming business problems that cannot be overcome alone. So far, there is still very limited research that reveals the collaborative role of SMEs in times of crisis. Therefore, this research is directed to detegnine the effectiveness of SME Collaboration in improving innovation capabilities during a pandemic. The results of this study are expected to provide important information on the role of SME groups in overcoming the problems of each group member.

Based on the description above, there is sufficient reason that this research is urgent to be carried out. Here are some reasons why this research is important:

- The existence of SMEs in times of crisis is very necessary as a supplier of jobs so that the performance of SMEs needs to be maintained.
- Testing the effectiveness of SME Collaboration and Absorptive Capacity on SMEs' innovation capability is still very limited. The SME groups have not received enough attention from researchers as to whether their collaboration is effective in times of crisis.

II. LITERATURE REVIEW

Resource Based View Theory

Resource-Based iew (RBV) was used as a reference to determine the relationship between the concepts in this researh. RBV analyzes and interprets organizational resources to understand how organizations achieve sustainable competitive advantage so as to achieve defined performance. Hard to imitate concept of attributes by competitors is caused by uniqueness within the organization because resources are not easily transferred, as well as major changes in the organizational culture. According to Conner (1991), ownership of inputs and unique capabilities possessed by a company's resources are factors that affect the variance of performance between companies. The internal factor that has an impact on the company's advantage is the ability of SMEs to absorb information related to the business they are running so as to create unique products in the form of innovation. In addition, there are also extend factors that have an impact on the company's advantages, which have implications for performance. The external environment in the form of collaboration between SMEs in the group and the dynamics of the environment that are expected to hinder or encourage the performance of SMEs are the context in this research.

SME's Collaboration

SME Collaboration shows the cooperation of SMEs with external parties. The parties that can be involved with SMEs include fellow SMEs, groups of SMEs that have a structure, larger companies, the government, and universities. New product development can be created if there is an expansion in the various skills of SMEs due to collaboration between companies and external institutions. According to Muscio (2014) and Forfas (2005), companies must have the ability to search, find, access, and interpret their own user information embodied in external organizations. SMEs that can utilize external networks efficiently are a determining factor for the success of SMEs against competitors.

Innovation Capability

According to Battor & Battor (2010); Sivadas & Dwyer (2000) innovation is an important organizational capability, because with the success of a new induct, it will have an impact on increasing sales, profits and competi, and strength. Hult et al. (2004) the progress, product, and organization of a new idea are described as innovation (Thornhill, 2006). Therefore, Innovation Capability in the context of this research is the ability of SMEs to develop new products according to market demand.

The Effect of Collaboration on Innovation

Expansion of expertise in accessing new knowledge will occur if there is collaboration between companies and external institutions. The existence of collaboration between companies and institutions, causes companies to have the ability to search, find, access, and interpret information (Forfás, 2005).

Collaboration among SMEs has a positive effect on increasing information, experience, and lowedge so that each SME has ideas or ideas to develop product and service innovations. The company's collaboration with external institutions allows for the expansion of expertise and can support the development of new products. Piore and Sabel (1984) reveal that the competitiveness of a company's innovation is more determined by the company's external network (Mytelka, 1991). The results of Costa & Monteiro's research (2016) found a link between knowledge sharing, absorptive capacity, and innovation.

Strategic 5 liances among SMEs can overcome various obstacle 10 growth. Therefore, the collaboration of SMEs has a positive impact on the performance of SMEs. Based on this argument, the following hypothesis is formulated: SME's collaboration has a significant effect on innovation.

III. RESEARCH METHODOLOGY

This type of research is applied which is intended to evaluate the application of business collaboration between SMEs. In addition, a collaboration between SMEs and other parties such as local governments, universities, and industry. This study also examines and explains the causal relationship between variables through hypothesis testing as well as conducting explanations. The approach used in analyzing this research

is quantitative (Kerlinger, 2003). The population in this study were all SMEs of local processed food who were members of the AMBOY Group (Agro Mirasa Boga Yogyakarta) in Bantul Yogyakarta, totaling 62 SMEs. Given the relatively small number, all members of the population were used as respondents for this study.

The SME's Collaboration variable was measured using an instrument developed by Zhra and George (2002), while the Innovation Capability indicator adopted Thomhill's (2006) research. The measurement scale us 1 in this study is an attitude scale. The type of scale used is a Likert scale which is graded between a score of 1-5 (1=strongly disagree to 5=strongly agree). The main data used in this study is primary data derived from the respondents' answers, namely the owners of locally processed food SMEs. This study uses a closed questionnaire as a research instrument that is given directly to respondents through face-to-face or social media. Before being used, the questionnaire was tested for validity and reliability using product Moment correlation and the Cronbach Alpha coefficient. The analysis of this study used descriptive statistical analysis and inferential statistical analysis. The inferential statistical tool used is WarpPLS (Warp-Partial Least Square) with considerations relevant to the research objectives and WarpPLS is suitable for research with large or small sample sizes (Hair et al., 2014). Hypothesis testing using p-value with a significance level of 5%.

IV. FINDING AND DISCUSSION

Based on the data collection of research respondents, the following results can be presented:

Value (n=100) Respondent Characteristics Gender 84 Male Female 16 Respondent Age <25 years 15 25-40 years 60 130 years Company Age 1-5 years 26 5-10 years 10-15 years 36 15-20 years 23 >20 years 8

Table 1. Respondent Characteristics

Table 2	Average of	of Vari	ables	and	Indicators
rable 2.	Average (n vari	ables	anu	murcators

Variabel	Indikator	Mean
SME's	- Coolaboration with SME	4,33
Collaboration	 Collaborative with high education 	4.21
	 Collaborative with local government 	4,02
	- Collaborative with industry	4,05
Innovation	- Ability to create new product innovations	4,24
Capability (Y1)	- Ability to create new service	4,46

The results of model testing using WarpPLS are as follows:

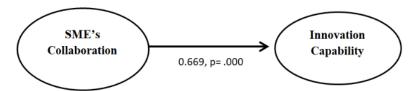


Figure 1. Tested Model

The results of this study indicate that SME Collaboration has a significant effect on Innovation Capability. This result is evidenced by the p-value <0.05 with a coefficient of 0.669. Thus, the hypothesis is accepted. The findings of this stude are consistent with Piore and Sabel (1984) who revealed that the innovation competitiveness of a company is more determined by the company's external network. This finding also supports previous research conducted by Costa & Monteiro (2016) which found a link between knowledge sharing, absorptive capacity, and innovation.

These findings to vide theoretical implications and managerial implications. This finding further strengthens the RBV (Barney, 1991; Hamel and Prahalad, 1996) that organizational resources are useful in creating a sustainable competitive advantage through innovation Collaboration among SMEs expands their ability to understand the changing environment and create new products or new services according to consumer needs. The results of this study reveal that long-standing cooperation among SMEs has fostered a strong commitment to helping each other. The SME group discusses finding solutions to problems that occur due to the covid-19 pandemic. They find fresh ideas to maintain their business during the pandemic.

The findings of this study are useful for SMEs and stakeholders in maintaining SMEs in times of crisis. The government needs to formulate regulations in providing business assistance to SMEs through SME groups. Assistance is directed at increasing the ability of SMEs in product innovation and marketing innovation that is relevant to the pandemic situation.

V. CONCLUSION AND FURTHER RESEARCH

An important finding 1 this research is that SME collaboration has a significant effect on innovation. Cooperation between SMEs during the COVID-19 pandemic has prove to increase the innovation ability of SMEs in creating new products and new marketing techniques. This study has limitations in terms of the scope of the study. Further research is expected to be able to research with a larger population from various business sectors.

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