

EXPLORATIVE STUDY OF M-COMMERCE AS A SMALL BUSINESS INNOVATION STRATEGY

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Abstract: MSMEs have proven to be part of the national economic backbone and have survived the economic crisis that has occurred in Indonesia. However, MSMEs are required to continue to innovate in their business strategies in the rapid disruption of business. The purpose of this study is to explore the role of m-commerce in MSMEs' business innovation strategies. By a qualitative descriptive approach, this study conducted at the Tempe Chips Center in Sanan in Malang as a case study. This study used primary (informants) and secondary (works of literature) data as sources of data and collected by using observation, interview, and documentation and used purposive sampling in determining the informants. Triangulation tests carried out in order to check data from various sources in various ways and times. This study found that the use of social media and the marketplace as one of MSMEs' business strategies in marketing products is still less than optimal. Although almost all MSMEs businesses use the Whatsapp application in their business transaction processes, only a few are expanding the market through other media. In general, MSMEs are familiar with social media and the marketplace, but few of them can optimize it in marketing their products.

Keywords: m-commerce, business strategy, business innovation, MSMEs

Abstrak: UMKM telah terbukti menjadi bagian dari tulang punggung ekonomi nasional dan selamat dari krisis ekonomi yang terjadi di Indonesia. Namun, UMKM dituntut untuk terus berinovasi dalam strategi bisnis mereka dalam gangguan bisnis yang cepat. Tujuan dari penelitian ini adalah untuk mengeksplorasi peran m-commerce dalam strategi inovasi bisnis UMKM. Dengan pendekatan deskriptif kualitatif, penelitian ini dilakukan di Tempe Chips Center di Sanan di Malang sebagai studi kasus. Penelitian ini menggunakan data primer (informan) dan sekunder (literatur review) sebagai sumber data dan dikumpulkan dengan menggunakan observasi, wawancara, dan dokumentasi dan menggunakan purposive sampling dalam menentukan informan. Tes triangulasi dilakukan untuk memeriksa data dari berbagai sumber dengan berbagai cara dan waktu. Studi ini menemukan bahwa penggunaan media sosial dan pasar sebagai salah satu strategi bisnis UMKM dalam memasarkan produk masih kurang optimal. Meskipun hampir semua bisnis UMKM menggunakan aplikasi Whatsapp dalam proses transaksi bisnis mereka, hanya sedikit yang memperluas pasar melalui media lain. Secara umum, UMKM akrab dengan media sosial dan pasar, tetapi beberapa dari mereka dapat mengoptimalkannya dalam memasarkan produk mereka.

Kata kunci: m-commerce, strategi bisnis, inovasi bisnis, UMKM

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INTRODUCTION

M-commerce has recently become a new business platform that not only plays a vital role in shifting the industry paradigm but also becomes an essential factor in the management of change and innovation in the future (Shin, 2017). M-commerce which is a product of the industrial revolution 4.0 provides enormous opportunities in business development in the digital age (Francesco et al. 2018; Nugraha, 2018; Roy et al. 2016; Shin, 2017). With faster and easier access to information (Francesco et al. 2018), M-commerce allows all business transactions to be carried out without having to go through the presence of sellers and buyers. All processes can be transferred through computers and web services using smartphones. In addition to the ease and speed of the transaction accessibility process, M-commerce also provides a great opportunity for the industry to track and study customer behavior through big data obtained from customer transaction history. Thus, it is possible for companies to know the habits, lifestyle, and consumer behavior of customers and offer products according to what is needed by the customer (Francesco et al. 2018; Nieuwenhuis et al. 2018; Shin, 2017).

The existence of the phenomenon of the Internet of Things, all of which connected with the internet, allows the socio-economic dynamics to shift in such a way as quickly (Francesco et al. 2018) and also raises a new phenomenon known as a disruptive innovation (Alberti-Alhtaybat et al. 2019; Assink, 2006; Habtay, 2012; Hopp et al. 2018; Markides, 2006; Nieuwenhuis et al. 2018; Roy et al. 2016). Many incumbent companies or large companies begin to be disturbed by the presence of start-up companies that disrupt their markets and segments by offering more excellent services and at more affordable prices by end-users (Kasali, 2018).

A disruption phenomenon marked by an emergence of various innovative products, technologies, platforms, and business models. For an example of the disruption is the emergence of WhatsApp, which are opponents of the standard telecommunications operators. This platform issues free telephone and message services. Then, the emergence of Fintech slowly began to take the business segment of conventional banking. Besides, Gojek or Grab companies also began to disrupt conventional taxi service operators by providing a sharing business model, which is certainly more accessible and cheaper (Kasali, 2018). Thus, disruption, on the one hand, provides

large profits and opportunities for micro, small and medium entrepreneurs (MSMEs) to be able to compete in marketing their products, but on the other hand, poses no small threat to the sustainability of MSMEs that are unable to follow and make innovations in their business strategies (Kasali, 2018; Nugraha, 2018).

MSME, as one of the movers and supporters of the national economy, cannot be denied to make a significant contribution to state revenue (Nugraha, 2018). It noted that the number of MSMEs in Indonesia in 2018 reaches 62, 92 million business units or 99, 92% of the total existing business units in the country and contributes 60% of the country's gross domestic income (GDP), and can absorb 116 workers, 73 million people or 97, 02% of the total workforce (Deny, 2018). However, of the total number of MSMEs, there are 36% of MSMEs are marketing their products offline, and only 18% have online capability using social media or the web, and only 9% can operate their businesses through e-commerce. If the involvement of MSMEs in e-commerce increases, it is predicted to increase revenue growth between 23-80% (Deny, 2018; Widiarini, 2018). To support this, the government, through the ministries of cooperatives and SMEs has collaborated with 41 well-known market places such as blanja.com, mataharimall.com, Lazada, Shopee, Blibli, Tokopedia, Bukalapak, and others (Widiarini, 2018).

The contribution of MSMEs to the economy in East Java is also very significant. In the first semester of 2018, UMKM had contributed 5.57% of the total economic growth in East Java. Meanwhile, the contribution to the Gross Regional Regional Income (GRDP) of East Java at the current price reaches Rp544.44 Trillion with a predominance of support from the micro, small, and medium business sector. Meanwhile, investment realization in East Java reached Rp152.39 trillion in 2017, and Rp95.95 trillion in the first semester of 2018, up 22.87% from the previous year. Overall from 2017 to 2018, the contribution of MSMEs to total investment reached 56.34%, and rose to 74.36% in Semester I, 2018 (Hakim, 2018).

MSMEs in Malang as one of the developing cities also have an impact that is no less significant, with the number of MSMEs that are not small. There are as many as 99, 213 micro, small, and medium businesses operating in Malang City (BPS Kota Malang, 2018). It noted in 2017, micro, small and medium enterprises contributed significantly to the regional income of

Malang City by contributing 5, 61% to the economic growth of Malang City, more significant than the economic growth in East Java which was only 5, 5% in the same year (Wahyunik, 2017). PDRB based on current prices in Malang City in 2017 amounted to 62, 190 billion with contributions from the micro, small, and medium business sector at 54.87% (BPS Kota Malang, 2018). Given the substantial contribution of MSMEs to the economy of the State, the province, and the region itself, MSMEs should be able to be a reliable economic driver.

The development of the technological era, with the advancement of the internet, requires MSMEs to adapt and innovate in business models developed by changing their business platforms through the use of the internet to be undisturbed and able to survive and develop as expected. However, the latest data shows that not a few of the SMEs in Malang, in their business strategy, still use the old methods. Of the total number of MSMEs, only 18% recorded using websites and social media as a means of promotion in their business (Deny, 2018). There are only about 5% of the total MSMEs that utilize the marketplace (such as Tokopedia, Bukalapak, Olx, Shopee, and others). Apart from the role of leader, culture and HR (Idris, 2019; Idris and Adi, 2019; A. Sani et al. 2018; Achmad Sani et al. 2018), information technology provides high competitiveness to MSMEs (Prabandari and Azzuhri, 2011; Rahmana, 2009) and social media also have a very significant impact on improving the performance of small and medium businesses (SMEs) (Priambada, 2015; Siswanto, 2013; Widyaningrum, 2016). In other words, MSMEs required always to be able to adapt and innovate in a business strategy that carried out in order to survive and develop as expected (Purwadita et al. 2018). Therefore, this study aims to explore the role of m-commerce in MSMEs' business innovation strategies and to describe the inhibiting and supporting aspects for MSMEs to implement those strategies. This study is critical to do in order to provide a deep understanding of various authorities in the development of MSMEs about the extent to which MSMEs choose adaptive and innovative business strategies by optimizing m-commerce as a new platform in the business.

METHODS

This study used a descriptive qualitative approach that describes the phenomenon according to the research objectives (Sugiyono, 2017). This study used primary (informants) and secondary (literatures) data as sources of data and collected by using observation, interview, and documentation. This research conducted in Malang with the object of research was MSMEs in Malang. Criteria for MSMEs who become informants were micro, small, and medium business actors who have been in business for at least five years. The determination of the research object based on a purposive sampling technique by selecting and determining informants based on specific considerations (Sugiyono, 2017).

Data analysis carried out in 4 stages (Figure 1) by adapting the data analysis model of Miles and Huberman (1994), consisting of data collection, data reduction, data presentation, and conclusions or verification. Triangulation test carried out in order to check data from various sources in various ways and times. In detail, there are three types of triangulation tests, which include triangulation of sources, techniques, and time (Sugiyono, 2017).

RESULT

The purpose of this study is to explore the role of m-commerce in MSME business strategies in Malang along with inhibiting and supporting factors in the use of m-commerce in business strategies developed by MSMEs in Malang. There were 10 MSMEs involved in this study with the focus of the research object in the Sanan, MSME center area of Malang. The interviews conducted with the owner or the employees. Data regarding MSMEs provided in Table 1.

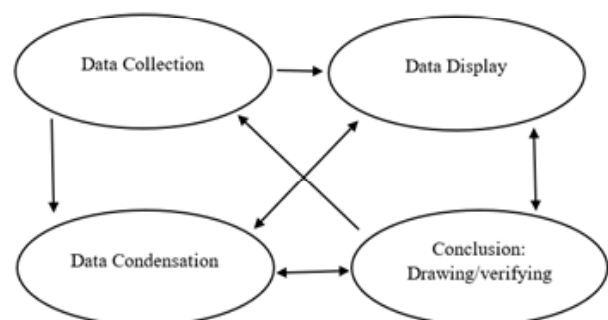


Figure 1. Interactive model of data analysis (Miles et al. 2014)

Table 1 shows that there are at least 10 MSMEs that are sources of information on m-commerce exploration studies as an MSME business innovation strategy in Malang. Besides, the table also explained that the type of business involved in this study was Kripik Tempe in Kampung Sanan, Purwantoro Village, Blimbing District, Malang City.

The Role of M-Commerce in the MSME Business Innovation Strategy

The use of advances in information technology in the form of marketplaces, social media, websites or blogs, and several other media as a place to market MSME business products is very much needed for MSMEs today. Consumer behavior that requires fast-food goods provides potential opportunities for businesses to optimize and maximize existing media to increase profits.

In general, several MSMEs involved in this study were aware of the existence of the media. Although, some of them also do not understand and do not utilize the existing marketing media for their products. More specifically, most of the MSMEs in Sanan only use the Whatsapp application as a communication medium for transactions with consumers. Meanwhile, some others have used social media such as Facebook, Instagram, marketplaces such as Tokedia, Bukalapak, and Shopee, as marketing media for their products. The following are the data regarding the use of m-commerce for MSMEs in the Kripik Tempe of Sanan.

Table 2 describes that the majority of MSMEs in Sanan has used and utilized mobile phone facilities as part of the marketing media of their products. This finding found from the use of the WhatsApp application as the favorite application of most MSMEs for the benefit of their product sales transactions. There is only one business, Kripik Tempe Fadilah, which completely markets its products offline. Besides, not only the WhatsApp application, some SMEs such as Tempe Rohani, Andika, Central, and Kiki Tempe have utilized social media and markets to market their products. However, this does not necessarily make them use this media in the SME business innovation strategy. The following are displayed data regarding the business strategy carried out by tempe chip business operators in Sanan.

Table 3 illustrates that almost all MSMEs continue to use ordinary strategies while maintaining the quality of taste. Besides, some add flavors, maintain prices, and trust and comfort the customer. Some even took part in the UMKM bazaar and gave bonus purchases in the form of stickers to introduce products to the market. However, only a few wants and has implemented electronic media such as social media, marketplaces, and other electronic media in their business strategies. As for this matter, as said by informants from the Tempe Kiki Production House and Kiki Tempe and Kripik Tempe Satriya that they use the media to expand their market coverage. Besides, there are also Karina tempe that use media to add channels in the form of Gojek in the sale of their products while Tempe Central and Andika Kripik want to adjust and re-use this media.

Table 1. MSMEs involved in the study

Name	Address	Type of business
Keripik Tempe Melati	Jl. Sanan Gang III, Purwantoro, Blimbing, Malang	Keripik Tempe
Rumah Produksi Cap Bawang	Jl. Sanan Gang III, Purwantoro, Blimbing, Malang	Keripik Tempe
Rumah Produksi dan Keripik Tempe Kiki	Jl. Sanan No. 33, Purwantoro, Blimbing, Malang	Keripik Tempe
Keripik Tempe Andra	Jl. Sanan Gang III, Purwantoro, Blimbing, Malang	Keripik Tempe
Keripik Tempe Satriya	Jl. Sanan No 99, Purwantoro, Blimbing, Malang	Keripik Tempe
Keripik Tempe Fadila	Jl. Sanan Gang III, Purwantoro, Blimbing, Malang	Keripik Tempe
Keripik Tempe Karina	Jl. Sanan No. 16, Purwantoro, Blimbing, Malang	Keripik Tempe
Keripik Tempe Central	Jl. Sanan No. 24, Purwantoro, Blimbing, Malang	Keripik Tempe
Keripik Tempe Andika	Jl. R. Tumenggung Suryo No. 84, Sanan-Purwantoro, Blimbing, Malang	Keripik Tempe
Keripik Tempe Rohani	Jl. R. Tumenggung Suryo No. 90, Sanan-Purwantoro, Blimbing, Malang	Keripik Tempe

Table 2. MSME using M-Commerce as business strategy

Name	Type of business	M-commerce	Inf.	Name	Type of business	M-commerce	Inf.
Keripik Tempe Melati	Keripik Tempe	Whatsapp	Active	Keripik Tempe Fadila	Keripik Tempe	Offline	Offline
Rumah Produksi Cap Bawang	Keripik Tempe	Whatsapp	Active	Keripik Tempe Karina	Keripik Tempe	Whatsapp, Gojek	Active
Rumah Produksi dan Keripik Tempe Kiki	Keripik Tempe	MarketPlace, Whatsapp, Instagram	Active	Keripik Tempe Central	Keripik Tempe	Whatsapp, MarketPlace	Active
Keripik Tempe Andra	Keripik Tempe	Whatsapp	Active	Keripik Tempe Andika	Keripik Tempe	Whatsapp, MarketPlace, Media sosial	Active
Keripik Tempe Satriya	Keripik Tempe	Whatsapp	Marketplace off	Keripik Tempe Rohani	Keripik Tempe	Whatsapp, Media sosial, Website, Marketplace	Active

Table 3. Business Strategy and Innovation against the Disruption Era

Name	Initial strategy	Current strategy	Innovation
Keripik Tempe Melati	Maintaining the quality of taste	Maintaining the quality of taste	Social Media
Rumah Produksi Cap Bawang	Minimizing the selling price	Minimizing the selling price	Social Media
Rumah Produksi dan Keripik Tempe Kiki	Minimizing the selling price, maintaining the quality of the taste, adding to the flavor variants, joining the bazaar, and purchasing bonuses	Expanding market coverage through the media	Social Media
Keripik Tempe Andra	Maintaining the quality of taste	Maintaining the quality of taste	Social Media
Keripik Tempe Satriya	Maintaining the quality of taste and keeping customer satisfaction	Expanding market coverage through the media	Social Media
Keripik Tempe Fadila	Maintaining the quality of taste and customer loyalty	Maintaining the quality of taste and customer loyalty	Conventional
Keripik Tempe Karina	Maintaining the quality of taste	Adding variant of tastes and market chain (Gojek)	Partnership (Gojek)
Keripik Tempe Central	Maintaining the quality of taste and Adding variant of tastes	Adapting by using market place	Social Media, marketplace, gojek
Keripik Tempe Andika	Maintaining the quality of taste	Using social media and market place	Social Media and marketplace
Keripik Tempe Rohani	Maintaining the quality of taste and Adding variant of tastes	Expanding market coverage through the media	Social Media and marketplace

With regard to innovations in this competitive era, not all of the respondents innovate their business. Even the informants from Toko Melati said that they were only resigned to the quality of the taste of their products. This finding is almost similar as said by the informant from Kripik Tempe Andika, who only maintains the quality of taste and the selling price of their products.

M-commerce, as a new trade media as a result of the development of e-commerce, of course, also has the same ability to have a positive influence on business implementation. According to Hanum (2017), the adoption of this media can cause business performance to increase. Therefore, the use of this media should be able to play a role in business development strategies (Kim, 2006).

Based on the data, it found that only half of the informants had improved strategies to keep their business on. They argue that it is necessary to adjust to these conditions starting from expanding market coverage and increasing purchasing channels. Both are forms of innovation strategy caused by encouragement from outside the organization (Tidd, 2001). First, market expansion is an activity to increase product marketing channels. This strategy included in one of the innovation strategies in the form of development (Schumpeter, 1934). The selection of this strategy considered adequate because the use of this media must be able to provide a new channel in marketing business products (Kim, 2006). This fact is because mobile penetration is unstoppable throughout the world (Hartati, 2011). Thus, this is not only local, but it has reached a global level in the marketing of these products. However, it should be noted that the use of this media can only cover segments of buyers who have access to the internet (Lim et al. 2003).

Second, adding purchasing channels basically as a result of market expansion. With a vast market that even covers the world, regular payments or purchases directly to the store will be a difficulty. Therefore, with this media, the addition of channels for transactions will facilitate its implementation. This fact is because the flexible access given by m-commerce (Niranjanamurthy et al. 2013). Besides, with channel transactions through m-commerce, the costs incurred are less (Niranjanamurthy et al. 2013; Rahmidani, 2015).

The presence of M-Commerce has proven to have provided an increase in business strategy. However, this study also found that half of Tempe Chips business in Sanan did nothing to deal with this condition. It was the result of calculations of the factors that support and hinder the use of this media in their efforts.

Inhibiting and Supporting Factors of MSME

The use of social media and market places in marketing MSME products is an effort usually carried out by business actors to expand market segmentation and marketing reach of MSME products. However, not a few business actors still survive conventionally in marketing their products. There are several supporting and inhibiting factors for micro, small, and medium businesses in this regard.

Table 4 indicates that most MSMEs support the use of market place as a marketing medium for their products. As for almost all informants, they assume that by using this media, market coverage is getting wider. Besides, one of the informants also revealed that the use of this media reduces marketing costs. This finding is because there are several non-paid market places. Some even argue that with a market place, the selling price of the product is getting bigger. Thus, the business can get additional profit. This fact was revealed by informants who had used this media (Production House and Kiki Shop, Satriya Shop, Tempe Karina Chips, Tempe Central Chips, and Andika Tempe Chips) that they received additional profit, although a little and a bit complicated. Moreover, one informant also believes that this is important to be used to keep abreast of the times. However, on the other hand, there are still several things that are hampering so that businesses do not use or cannot optimize market places.

The obstacles that are felt by MSMEs to use the most significant market place are the purchases through this media tend to be few. As stated by an informant from Cap Bawang Production House that "The delivery of goods is only a unit, so it is a loss, many sales come directly to the store, and it is too long to make it online". Another informant from Melati Shop also said that "we sell offline only, there are already many buyers. Sales have directly taken goods". Besides, some informants also considered that using market place was time-consuming. There are some informants who do not use this media because they do not understand the method and technology.

The use of m-commerce in the MSME innovation strategy has excellent possibilities. This opportunity is because m-commerce can answer the needs of the community quickly. Besides, the increased penetration of mobile phones throughout the world is also the reason this media has excellent support (Hartati, 2011). Therefore, to keep the UMKM business running, it is necessary to use this media to keep abreast of the times. The SMEs felt the same thing in Malang.

The implementation of an internet-based market (market place) proven to provide additional profit to business actors. The experience proves this that Kiki Shop and Satriya Stores, Tempe Karina Chips, Tempe Central Chips, Andika Tempe Chips, and Andika Tempe Chips have gained from the market place. This fact of course can also be felt by business people who want to use

m-commerce in their business moreover, if marketing costs through this media are free. As is also felt by the Fashion Industry in Belgium that the cost of web-based stores is cheaper when compared to conventional stores (Nauwelaerts and Chakri, 2016).

The biggest reason that supports MSME businesses in using m-commerce in their businesses is that this media can provide a more comprehensive market coverage than conventional markets. This fact is because m-commerce can provide new channels in marketing and retail (Kim, 2006). Even, it can access global markets (Rahmidani, 2015) only use their cellphones. This situation found to apply to almost all tempe chips business in Sanan. However, this is also what makes MSME entrepreneurs uncomfortable using m-commerce.

The higher the scope of the market, the further the delivery of products belonging to MSMEs can get. This scope is a barrier because it will reduce the profits that obtained. Especially if the number of orders from buyers is only small. Likewise, as felt by some tempe chip entrepreneurs in Sanan, one of which is the Tempika Ande Chips business especially if the case is

the same as the Tempe Melati Kripik business, which has been overwhelmed to fulfill offline orders.

This media considered difficult to be used by some Tempe Chips business players in Sanan. One of the business owners (Kripik Tempe Fadila) felt that he was technologically illiterate. This weakness is supported by the statement of Niranjanamurthy et al. (2013) that "the appearance of the user's face tends to be difficult to understand how to use it." So, if implemented, this will drain the user's time though the use of technology, especially m-commerce expected to be able to provide time effectiveness for users (Niranjanamurthy et al. 2013). Therefore, it said that the benefits of m-commerce can achieved if the user can operate it and can access the internet (Lim et al. 2003).

Managerial Implication

It is important for the government, especially departments related to MSMEs providing programs that can improve the skills and knowledge of entrepreneurs in utilizing information technology to adapt and innovate in marketing their products to consumers.

Table 4. Supporting and inhibiting factors the use of market place

Name	Supporting	Inhibiting	Inf. Market place
Keripik Tempe Melati	-	Overloaded with offline orders	No
Rumah Produksi Cap Bawang	Expanding market coverage	Only a few purchases	No
Rumah Produksi dan Keripik Tempe Kiki	Product prices are higher, expanding market coverage	Technological Backward	No
Keripik Tempe Andra	-	Overloaded with offline orders	No
Keripik Tempe Satriya	Expanding market coverage	Overloaded with offline orders, Only a few purchases	Off
Keripik Tempe Fadila	Expanding market coverage	Technological Backward	No
Keripik Tempe Karina	Expanding market coverage	Technological Backward	No
Keripik Tempe Central	Expanding market coverage	Only a few purchases	Active
Keripik Tempe Andika	Free	Only a few purchases, Any problem with the payment method	Active
Keripik Tempe Rohani	A skilled and adaptable workforce		Active

CONCLUSIONS AND RECOMMENDATIONS

Conclusions

The existence of m-commerce only plays a small role in the MSME business innovation strategy in Malang. The form of strategy taken by some business people is only in the form of expanding market coverage and the addition of business transaction channels through social media and marketplaces that can be accessed via mobile phones. This finding confirms Prabandari (2011) stating the effectiveness of the strategy depends on the context and business environment. However, this findings is on the contrary to the findings of Hanum (2017), Siswanto (2013), and Nauwelaerts (2016) that the use of electronic media can increase the turnover and performance of MSMEs. In addition, the supporting factors of using m-commerce in their business is the ability of this media to reach markets, increase profits, and ease of use of mobile phones in conducting business transactions. Moreover, the inhibiting factor of MSMEs in utilizing social media and market places is the inability of businesses to operate and optimize social media and market places in their business strategies.

Recommendations

Based on the findings, intensive training is needed for MSME entrepreneurs in Sanan-Malang City provided by the government, academics, and other parties regarding the optimization and utilization of social media or marketplaces in an effort to improve market segmentation and their business innovation strategies. In addition, there is also a need to strengthen MSME actors' understanding of the importance of business strategy innovation in maintaining business survival from disruption and new business models that continue to develop rapidly

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