

The Effect of the Use of E-Commerce and Accounting Information System on SMEs Revenues

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ABSTRACT

The COVID-19 pandemic has contributed to the decline of most SMEs' revenues. The use of e-commerce and accounting information system by SMEs is predictied to reduce the impact of COVID-19 pandemic on the decline of SMEs revenues. This study aims to examine the effect of the use of e-commerce and accounting information system on the SMEs revenues. In addition, this study also aims to examine the role of digital leadership in strengthening the relationship between the use of e-commerce, information systems and SMEs revenues. Sample of this study consists of 122 SMEs. Data were collected by distributing online questionnaires to respondents that include owners, managers, and employees who have contribution in managing SMEs. By using moderated regression analysis, the results show that the use of e-commerce and accounting information systems tends to increase the revenues of SMEs. However, this study fails to prove the moderating role of digital leadership in strengthening the relationship between the use of e-commerce, accounting information system, and revenues. These results implies the importance of adopting e-commerce and implementing accounting information systems to reduce the adverse impact of the pandemic on SMEs' revenues.

Keywords: SMEs, e-commerce, Accounting Information Systems, Digital Leadership, Revenues.

1. Introduction

Small and medium-sized enterprises (SMEs) have a significant contribution to the national economy. They help to alleviate poverty by creating jobs (Audretsch, 2009; Adomako, et al, 2016). During the 1997 economic crisis, SMEs proved to be the strongest corporate sector (RY, 2017). SMEs have also been shown to be capable of surviving a crisis. According to data from the Ministry of Cooperatives and Small and Medium Enterprises of the Republic of Indonesia, the number of SMEs in Indonesia is rising and will continue to grow, implying that their function in the economy is becoming increasingly important (Department of Manpower, Cooperatives, and Small and Medium Enterprises, 2017-2018).

Starting from the end of 2019, almost every country, including Indonesia, has been dealing with the Covid-19 pandemic. The outbreak of the Covid-19 in Indonesia affects the financial stability of SMEs. The COVID-19 pandemic has resulted in a loss in revenues as a result of the mobility restrictions policy, which has led numerous SMEs to temporarily cease operations. Given the importance of SMEs in the Indonesian economy, their existence must be preserved and promoted





in order to have a beneficial influence on growing the workforce, lowering unemployment and poverty, creating fair income distribution, and promoting regional economic growth (Rahmah, Kaukab, & Yuwono, 2020).

Revenue is an essential financial indicator of a business. Revenues is defined as proceeds derived from the outcomes of economic operations related to the sale of products or services (Gonibala, Masinambow, & Maramis, 2019). Every firm, even SMEs, expects a high level of revenues. Unfortunately, one of the areas most impacted by the Covid-19 epidemic is SMEs revenue.

Recent studies have identified a number of factors that might improve SME's productivity (see: Wahyuni et al., 2016; Gunawan, 2016; Puryati & Kuntadi, 2017; Safitri, 2018; Helmalia & Afrinawati, 2018; Setyorini et al., 2019; Purnata & Suardikha, 2019; Helming et al., 2019; Mihardjo & Sasmoko, 2019; Kala'lembang, 2020; and Safrianti, 2020). From the previously identified factors, this study focuses on the use of e-commerce and information systems as well as digital leadership as factors that are relevant to be investigated in the Covid-19 era. Hence, the goal of this research is to examine the impact of e-commerce and accounting information systems on the SMEs' revenues. In addition, this study also aims to investigate the moderating impact of digital leadership in the relation between the usage of e-commerce, the use of information systems, and the revenue of SMEs.

2. Literature Review

2.1 Underlying Theory

The Technology Acceptance Model (TAM) is a model developed by Davis in 1989 as an extension of The Theory of Reasoned Action (TRA), which was established by Ajzen & Fishbein in 1980. TAM's objective is to describe the factors influencing the adoption of information technology (Widianto, 2015). As a result, researchers frequently employ this model to explain the adoption of a technology or system. According to TAM, the intention to use a technology is influenced by perceived benefit, perceived ease of use, and attitude toward usage. The usage of e-commerce and accounting information systems is more impacted by perceived benefits in the context of this study. The advantages of using these two technologies are projected to lead to a rise in the income of SMEs.

2.2 Hypotheses Development

2.2.1 The Use of E-commerce and SMEs' Perceived Increase Revenues

Basing on the argument of TAM, the perceived benefit of utilizing e-commerce, one of which is to improve the performance of SMEs, can promote the usage of e-commerce. According to Jauhari (2010), using advances in information and communication technology and e-commerce will improve sales volume and income. Kala'lembang (2020) argues that e-commerce may enhance sales of products and services while also increasing the competitiveness of MSMEs. According to Sa'ad's (2017), Helmalia & Afrinawati (2018), Sarastyarini & Yadnyana (2018), Setyorini, Nurhayaty, & Rosmita (2019), and Nasri (2020), e-commerce has a favorable influence on MSME revenues. However, Puryati & Kuntadi (2017) and Safrianti (2020) indicate that e-commerce has no influence on revenue. This is due to lack of usage of e-commerce and



technology in product promotion by MSMEs.

Based on previous studies, we predict that the usage of e-commerce can improve the SMEs' perceived increase revenue. Thus, the first hypothesis is formally formulated as follows.

H1: The use of e-commerce has a positive influence on the SMEs' perceived increase revenues.

2.2.1 The Use of Accounting Information System and SMEs' Perceived Increase Revenues

Based on the argument of TAM, the use of accounting information systems provides benefit, such as: giving convenience in producing accurate financial information and allowing SMEs' financial performance to be more assessed. Accounting information, according to Aufar (2014), is quantitative information about economic entities which is important for making economic decisions and deciding between various courses of action. According to Aufar (2014), the usage of accounting information will have a beneficial influence on the achievement of an increase in MSME revenues.

Accounting information system is a computer-based system that converts accounting data into an output (Bodnar, 2010). Accounting information systems serve to assist an organization by facilitating the production of high-quality financial data for decision-making. According to Linawati & Restuti (2015), small enterprises lack of accounting knowledge. Many of them are unaware of the significance of recordkeeping and bookkeeping in ensuring business continuity. Mafudi et al. (2018) further demonstrate that SMEs have not implemented sufficient financial management systems.

Purnata and Suardikha (2019) discovered that accounting information system has a positive impact on the revenues of SMEs. According to Aufar (2014), Marzuq (2015), Mafudi et al. (2018), Safitri (2018), and Hasibuan (2020), the adoption of accounting information systems improves the success of SMEs. Wahyuni et al., (2016), on the other hand, were unable to demonstrate the impact of accounting information systems on MSME revenues. On the basis of these arguments, the second hypothesis of this study is as follows.

H2: The use of accounting information system has a positive influence on the SMEs' perceived increase revenues.

2.2.1 The Moderation Role of Digital Leadership

Leadership styles and organizational management have shifted as a result of digital technologies. The notion of digital leadership blends leadership with contemporary technology advances. Digital leadership entails the capacity to integrate several responsibilities and carry them out via the use of information and communication technologies. Digital leadership is the ability of a leader or potential leader to steer the organization or business they manage towards digitalization (Kiel, Muller, & Arnold, 2017). According to Aldholay et al (2018), Carreiro & Oliveira (2019), Kala'lembang (2020), and Mihardjo & Sasmoko (2019), leadership influences business performance in increasing firm revenues.

According to Mihardjo & Rukmana (2019), Mihardjo et al (2019), Helming et al (2019), Farunik

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(2019), and Henderi & Maimunah (2011), digital leadership has an indirect impact on the creation of business model innovations to maintain the firm's survival. Meanwhile, Aldholay et al (2018), Carreiro & Oliveira (2019), Kala'lembang (2020), Mihardjo & Sasmoko (2019), Nuraini & Rosyati (2012), and Tyas & Sitorus (2016) demonstrate the role of leadership style in strengthening the relationship between e-commerce and accounting data information on company's financial performance.

In line with previous studies, this study predicts that digital leadership can strengthen the relationship between the use of e-commerce, accounting information systems and the SMEs' perceived increase revenues.

- H3: Digital leadership strengthens the relationship between the use of e-commerce and the SMEs' perceived increase revenues.
- H4: Digital leadership strengthens the relationship between the use of accounting information systems and the SMEs' perceived increase revenues.

3. Research Methodology

3.1 Population and Sample

This study is a causal study utilizing a quantitative approach. It focuses on SMEs in Banyumas Regency, Central Java Province. The population consists of SME actors, such as owners, managers, or employees who are actively managing the SMEs. The sample was selected using a simple random sampling which involves randomly selecting sample members from the population without consideration for the strata that may exist in the population. The total number of samples was 97 small and 25 medium firms.

3.2 Data Collection and Analysis

Data was gathered through the use of questionnaires which were distributed either in person or online. Furthermore, moderated regression analysis was employed to analyze the data.

3.2 Research Variables

The perceived increase revenues is the dependent variable of this study. This variable was measured using 3 indicators and 10 question items modified from Budiarto (2016). The independent variables consist of the use of e-commerce and the use of accounting information system. The use of e-commerce variable was measured using 4 indicators and 11 question items adapted from Davis et al. (1986) and Ernawati (2017). The use of accounting information system variable was measured using 3 indicators and 7 question items derived from Marzuq (2015), Kusbiyanti (2017), and Lubis (2018). Meanwhile, digital leadership as a moderating variable was measured using 4 indicators and 9 question items modified from Heckeu et al (2016) and Priyanti et al (2019). A 5-point Likert scale was used to assess all variables in this study.



4. Results

4.1 Data Quality Test Results

Before the questionnaire was distributed to respondents, the validity and reliability of the questionnaire had been tested by involving 30 Accounting students. The classical assumption test was also performed to test for normality, multicollinearity, and heteroscedasticity. The results show that the residual data are normally distributed and there are no multicollinearity and heteroscedasticity problems detected.

4.2 The Goodness of Fit Test

The goodness of fit test determines whether the data match those predicted by the model. The result of this test indicates a substantial F value, indicating that the data fit the regression model.

4.3 Hypotheses Testing Results

Using moderated regression analysis, results of the analysis are shown in Table 1.

Tabel 1. Hypotheses Testing Results

Variables	t- Valu e	Sig.	
The use of e-commerce	5,212	0,000	Support H ₁
The use of accounting information system	3,901	0,000	Support H ₂
The use of e-commerce*digital leadership	0,923	0,358	Fail to support H ₃
The use of accounting information system*digital leadership	0,515	0,607	Fail to support H ₄

The use of e-commerce variable has a significant value of less than 5% (p-value=0.000; t=5.212). This finding supports the first hypothesis (H1) which predicts that the use of e-commerce has a positive influence on the SMEs' perceived increase revenues. The accounting information system variable has a significance value of less than 5% (p-value=0.000; t=3.901). This finding supports the second hypothesis (H2) which predicts that the adoption of accounting information system has a positive influence on the SMEs' perceived increase revenues.

Meanwhile, the interaction variable involving the use of e-commerce and digital leadership has a significance value of more than 5% (p-value=0.358; t=0.923). This suggests that digital leadership has no moderating effect. In other words, digital leadership is unable to strengthen the relationship between the use of e-commerce and the SMEs' perceived increase revenues, implying that the third hypothesis (H3) is unsupported. Finally, the interaction variable between the use of accounting information system and digital leadership shows a significance value of more than 5% (p-value=0.607; t=0.515). This finding indicates that digital leadership is unable to strengthen the relationship between the use of accounting information system and the SMEs'



perceived increase revenues. Thus, the fourth hypothesis (H4) is unsupported.

5. Discussion

This study demonstrates that the use of e-commerce and accounting information system enhances the SMEs' perceived increase revenues. These findings support the TAM, which states that the adoption of a technology or system, one of which is dependent on the perception of the system's or technology's benefits. In the context of this study, the decision of SMEs to utilize e-commerce and accounting information systems can be based on the benefits, one of which is increased SMEs' revenues. This study demonstrates that SMEs believe that using e-commerce and accounting information systems may boost revenues. The results of this study are in line with Sa'ad (2017), Helmalia & Afrinawati (2018), Sarastyarini & Yadnyana (2018), Setyorini, Nurhayaty, & Rosmita (2019), Nasri (2020), and Kala'lembang (2020), which states that the use of e-commerce has a positive influence on the SMEs' perceived increase revenues, as well as Aufar (2014), Marzuq (2015), Mafudi et al (2018), Safitri (2018), Purnata & Suardikha (2019), and Hasibuan (2020), which states that the use of accounting information system positively affects the SMEs' perceived increase revenues.

Meanwhile, this study fails to demonstrate the moderating impact of digital leadership in enhancing the relationship between e-commerce, accounting information system, and SMEs' perceptions of higher revenues. This may be due to the fact that most SMEs, in the sample of this study, employ simple e-commerce and accounting information system, making digital leadership unnecessary. This finding contradicts Mihardjo & Rukmana (2019), Mihardjo et al (2019), Helming et al (2019), Farunik (2019), and Henderi & Maimunah (2011). However, it supports Cahya (2019).

6. Conclusion

The study aims to investigate the impact of the use of e-commerce and accounting information system on the SMEs' perceived increase revenues. Furthermore, the purpose of this study is to investigate the ability of digital leadership to strengthen the relationship between the usage of e-commerce, accounting information systems, and the SMEs' perceived increase revenues. According to the findings, we conclude that e-commerce and accounting information system have a favorable impact on the SMEs' perceived increase revenues. Meanwhile, digital leadership is unable to enhance the relationship between e-commerce, accounting information system, and perceived increases in SMEs revenue. These findings imply the significance of SMEs to expand their usage of e-commerce and accounting information system since they believe that doing so will boost their revenues.

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