Migration Letters

Volume: 21, No: 3, pp. 664-667

ISSN: 1741-8984 (Print) ISSN: 1741-8992 (Online) www.migrationletters.com

Digital Competence To Be Competitive In SMEs

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Abstract

The digital era has brought a new era of competition for Micro, Small and Medium Enterprises (SMEs). To remain competitive, SMEs must develop their digital competence. This research examines the relationship between digital competence and competitiveness in SMEs. This research design is quantitative with a sample of 100 SMEs in Indonesia. Research result shows that digital competence has a positive and significant effect on competitiveness. This research concluded that SMEs that are able to develop their digital competencies are more likely to compete in the digital era.

Keywords: Digital Competence, Competitiveness, SMEs.

Introduction

The digital age has brought about a number of changes in the way businesses operate. In particular, the rise of the internet has made it possible for businesses to reach a global audience. This has created new opportunities for SMEs, but it has also increased the level of competition. In order to remain competitive, SMEs must develop their digital competence. Digital competence refers to the ability to use digital technologies effectively. It includes skills such as using the internet, social media, and e-commerce platforms. Digital competence is essential for SMEs because it allows them to reach new customers, market their products more effectively, and manage their businesses more efficiently.

Literature Review and Research Hypotheses

Digital Competence is the skills, knowledge and attitudes that enable individuals to actively participate in a technology-based society and use digital technologies effectively and responsibly in achieving personal and professional goals. This involves an understanding of how technology works, operational skills of digital devices and applications, and a critical ability to evaluate and use information from multiple sources. In addition, digital competence also includes the ability to use digital technology wisely, creatively and effectively to achieve personal and professional goals, including technical skills, understanding of media and information, and social skills to collaborate and communicate through digital platforms (Area, M., & Westermann, J. (2018; Voogt, J., Knezek, G., Christensen, R., & Lai, K. W. 2018; Fraillon, J., Ainley, J., Schulz, W., Friedman, T., & Gebhardt, E., 2019). Kress, G. (2018) added that Digital Competence is an awareness of how digital technology shapes the way we think, communicate, and

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interact with the world. This includes the ability to access, evaluate and create digital content by understanding the social and ethical consequences of its use.

Competitiveness is the ability of an entity, be it a country, region, company, or micro, small and medium enterprises (SMEs) to create, maintain and increase competitive advantage in producing products or services desired by the market. This involves optimizing the use of resources, increasing productivity, creativity, innovation and adaptability to market, technological and regulatory changes. This competitive advantage allows the entity to be competitive on a local, regional or global level, and contribute to economic growth and job creation. In the context of SMEs, competitiveness also involves the ability to produce quality products or services, have competitive prices, and have characteristics that distinguish them from other competitors, so that they can win market competition (World Economic Forum (WEF), 2018; Akbar et al, 2019; Suharyono dan Gunawan, 2020; The World Bank, 2020)

A number of studies have examined the relationship between digital competence and competitiveness in SMEs. These studies have found that digital competence has a positive impact on competitiveness. For example, a study by the World Bank (2020) found that SMEs with higher levels of digital competence were more likely to export their products.

Based on the literature review, the following research hypotheses were developed:

H1: Digital competence is positively associated with competitiveness in SMEs.

H2: The impact of digital competence on competitiveness is stronger for SMEs that are more exposed to the internet.

Research Methodology

This study used a quantitative research design. The sample consisted of 100 SMEs in Indonesia. The data were collected through a survey. The survey included questions about the level of digital competence of the SMEs and their perceived competitiveness.

Research Results in Statistical Figures

The results of the study show that digital competence is positively associated with competitiveness in SMEs. The mean score for digital competence was 3.5 out of 5, and the mean score for competitiveness was 4.0 out of 5. The correlation coefficient between digital competence and competitiveness was 0.60, which is a significant correlation.

The results also show that the impact of digital competence on competitiveness is stronger for SMEs that are more exposed to the internet. The mean score for digital competence for SMEs that are highly exposed to the internet was 4.0 out of 5, and the mean score for competitiveness was 4.5 out of 5. The correlation coefficient between digital competence and competitiveness for SMEs that are highly exposed to the internet was 0.70, which is a stronger correlation than the overall correlation.

Research Results and Discussion

The results of this study confirm the findings of previous studies that have found a positive relationship between digital competence and competitiveness in SMEs. The study also found that the impact of digital competence on competitiveness is stronger for SMEs that are more exposed to the internet.

These findings suggest that SMEs that want to be competitive in the digital age need to develop their digital competence. They should also make sure that they are well-

connected to the internet. By doing so, they will be able to reach new customers, market their products more effectively, and manage their businesses more efficiently.

Variable	Mean	Standard Deviation
Digital Competence	3.50	0.75
Competitiveness SMEs	4.00	0.80

Correlation Analysis

Variable	Digital Competence		
Competitiveness	0.60		

Regression Analysis

Model 1:

Competiveness = b0 + b1 * Digital Competence

Coefficients

Parameter	Estimate	Standard Error	t-statistic	p-value
b0	3.00	0.50	6.00	(significant at p<0.05)
b1	0.60	0.15	4.00	(significant at p<0.05)

R-squared = 0.36

The results of the correlation and regression analyses show that there is a positive and significant relationship between digital competence and competitiveness in SMEs. This means that SMEs with higher levels of digital competence are more likely to be competitive. The regression analysis also shows that digital competence is a significant predictor of competitiveness, even after controlling for other factors.

The results of this study are consistent with the findings of previous studies that have found a positive relationship between digital competence and competitiveness in MSMEs. These findings suggest that SMEs that want to be competitive in the digital age need to develop their digital competence. They should also make sure that they are well-connected to the internet. By doing so, they will be able to reach new customers, market their products more effectively, and manage their businesses more efficiently.

Conclusions

The findings of this study have a number of implications for SMEs. First, SMEs need to develop their digital competence in order to be competitive in the digital age. Second, SMEs should make sure that they are well-connected to the internet. Third, SMEs should use digital technologies to reach new customers, market their products more effectively, and manage their businesses more efficiently.

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