



Jurnal Penelitian Ekonomi dan Bisnis



journal homepage: http://jpeb.dinus.ac.id

# How does Unified Theory of Acceptance and Use of Technology (UTAUT) Work on Adopting Financial Technology (FinTech) by MSMEs?

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Abstract

## **Article Information**

Article history: Accepted: April 2021 Approved: July 2021 Published: September 2021

Keywords: FinTech MSMEs Digitalization UTAUT Inclusive

Micro Small and Medium Enterprises (MSMEs) have a very significant role in the economy, can even be said to be the backbone of the economy. However, MSMEs are precisely the sector hardest hit by the Covid-19 pandemic. Digitalization creates new opportunities for MSMEs in the pandemic. FinTech, one of the implementations of digitalization should be pursued to be used by MSMEs. Using path analysis processed using Partial Least Square (PLS), this research aims to identify how Unified Theory of Acceptance and Use of Technology (UTAUT) works on Adopting FinTech by MSMEs. The Outer Model and Inner Model reflect that the model work. The outer loading value of  $\geq$  0.7, AVE value  $\geq$  of 0.5, Cronbach's Alpha  $\geq$ 0,70, a correlation value  $\geq$  of 0.50; and Composite Reliability  $\geq$  0.6, and R-Square 0.716 reflect it. However, regarding the factors that influence intention to use, it is different from previous research that became a reference. There are only four hypotheses proven. Those are Context had a significant positive effect on Perceived Ease of Use and Perceived Usefulness, and Perceived Ease of Use and Perceived Usefulness had a significant positive effect on the intention to use fintech.

How to Cite: Wismantoro, Y., & Susilowati, M. (2021). How does Unified Theory of Acceptance and Use of Technology (UTAUT) Work on Adopting Financial Technology (FinTech) by MSMEs?. Jurnal Penelitian Ekonomi dan Bisnis, 6(2), 90-99. doi:https://doi.org/10.33633/jpeb.v6i2.4826

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ISSN 2442-5028 (print) 2460-4291 (online) DOI: 10.33633/jpeb.v6i2.4826 Ο



## INTRODUCTION

Micro Small and Medium Enterprises (MSMEs) have a very significant role in the economy, can even be said to be the backbone of the economy. With a small business scale based on local consumers, MSMEs products are always needed by the community. In addition, MSMEs are not dependent on the capital market and have proven to have high durability in crises. However, MSMEs are precisely the sector hardest hit by the Covid-19 pandemic. This condition occurs because the MSMEs sector is dominated by informal business units that require conducting business outside the home. The era of industrial revolution 4.0 marked by digitalization, automation, the internet of things (IoT), and artificial intelligence create new opportunities for MSMEs. The outbreak of covid 19 seems to be the trigger for the faster era of MSMEs digitization.

Digital technology is a medium for MSMEs to survive the covid period and is expected to accelerate the development of MSMEs business after covid 19. It can minimize the barriers of conventional business practices. The digitalization of MSMEs includes the performance of MSMEs that can survive or even grow during the pandemic and supports the creation of a sustainable and inclusive economy. The MSME digitization is reflected in the involvement of the poor in the expanded upstream to the downstream industrial supply chain. It means the digitization of MSMEs will contribute greatly to poverty alleviation efforts. One of the implementations of digitalization in business is the digitalization of payment methods, namely, non-cash payment methods use financial technology (FinTech). Based on this phenomenon, the acceleration of MSME digitization, especially in using Fintech needs to be pursued.

The problem is that introducing new technologies is not easy; it is very likely to be faced with resistance or lack of ability to adapt by the target user. Digitizing MSMEs requires hard effort because there are obstacles, including weak sustainable technology development, lack of adequate information, the inertia to change, weak e-commerce adaptation, and inefficient supply chains due to weak networks (Masurel, 2001). Therefore, digitalization behavior or adoption of digital technology in the development of its business and various factors that affect it need to be identified in depth. There are several approaches regarding the adoption of technology, including Unified Theory of Acceptance and Use of Technology (UTAUT), which is an extension of the Technology Acceptance Model /TAM (Shang Gaoa, John Krogstiea, and Keng Siau, 2017). This approach includes six variables consisting of three exogenous variables, namely Context, Personal Initiatives-Characteristics, and Trust. Four endogenous variables, namely Perceived Ease of Use and Perceived Usefulness, are a function of context and Intention to use, which is a function of Personal Initiatives-Characteristics, Trust Perceived Ease of Use and Perceived Usefulness.

It is important to understand the conditions of MSMEs' behavior intention and various factors that influence them to adopt FinTech in their business (implementing the FinTech of MSMEs). This research aims to draw alternative solutions to industrial problems, namely to overcome the problems of MSMEs as the sector most affected by the covid 19 pandemic and produce a formulating of MSMEs Fintech adoption intervention strategy. Thus, the results of this study will contribute to the economic efforts of financial inclusion as part of poverty alleviation efforts by improving MSMEs' competitiveness. In science and being a reference for similar activities, this research provides enrichment of the intervention model of digitalization behavioral intention.

### METHOD

The object of this study is the adoption of the digitalization behavior intention of MSMEs on a perceptual basis with various factors that affect it conducted in the city of Semarang. This research includes as many as 56 MSMEs respondents in various types of products/businesses. The type of data used in this study is primary data in MSMEs perception of variable indicators developed in this study (Table 1). Data collection is done by survey method using questionnaire instrument. The primary data in this study is the perceptional data of selected indicators. The Likert Scale 1 - 5 (strongly disagree - strongly agree) is used to anticipate the perceptional data.

By its purpose, this research variable refers to the mobile services acceptance model, an extension of the technology acceptance model (TAM) by S. Gao, J. Krogstie, and P.A. Gransæther (2011). The model includes variables, i.e., Context, Personal Initiatives, and Characteristics, Trust, Perceived Ease of Use, Perceived Usefulness, Intention to Use.

Variable	Definition	Indicator
Context (X1)	Any information that can be used to characterize the situation of the entity (i.e., a person, place, or object) is considered relevant to the interaction between the user and the application, including the user and the application itself	<ul> <li>People around using digital technology (X1.1)</li> <li>Have a fun experience using digital technology before (X1.2)</li> <li>The government encourages the use of digital technology (X1.3)</li> <li>Digital technology easy to install /install (X1.4)</li> <li>Have access to digital technology (e.g., smartphone, internet) (X1.5)</li> </ul>
Personal Initiatives and Characteristics (X2)	User willingness to experiment with digital technology	<ul> <li>Able to use digital technology (X2.1)</li> <li>Happy to use Digital Technology (X2.2)</li> <li>Using digital technology for the better (X2.3)</li> <li>Will use digital technology if it is free (X2.4)</li> <li>Using digital technology is a good idea (X2.5)</li> </ul>
Trust (X3)	The user's belief or belief that digital technology is secure does not threaten privacy.	<ul> <li>good idea (X2.5)</li> <li>Will use digital technology if: <ul> <li>Know the functionality of digital technology (X3.1)</li> <li>Widely known digital technology provider (X3.2)</li> <li>digital technology provider (X3.2)</li> <li>digital technology protects privacy (X3.3)</li> <li>Feeling confident in being able to control digital technology (X3.4)</li> <li>Feel confident the data obtained is reliable (X3.5)</li> <li>Believe in the use of risk-free digital technology (X3.6)</li> <li>Feel safe using digital technology (X3.7)</li> </ul> </li> </ul>
Perceived Ease of Use (X4)	The extent to which one believes that the use of certain system technologies will provide convenience	<ul> <li>Learn to operate digital technology easily (X4.1)</li> <li>Easy to find information about digital technology (X4.2)</li> <li>Finding the user interface clearly (X4.3)</li> <li>Discovering that digital technology is flexible</li> </ul>

**Table 1.** Variables and Research Indicators

(X4.4)

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Variable	Definition	Indicator
Dorgojuod	The extent to which one believes	Digital technology is easy to use (X4.5)     The use of digital
Usefulness (X5)	that digital technology is effective to improve the efficiency of its work	<ul> <li>The use of digital technology will improve working efficiency (X5.1)</li> <li>The use of digital technology facilitates business activities (X5.2)</li> <li>The use of digital technology makes recording transactions/books easier (X5.3)</li> </ul>
Intention to Use (Y)	The possibility of users to use digital technology	<ul> <li>If you have access, intend to use the</li> <li>Because it has access, it will still use</li> <li>I Will try to use</li> </ul>

## **Hypothesis:**

- 1. *Context* positively and significantly affects the Ease of Use of MSMEs digitization.
- 2. *Context* positively and significantly affects the Usefulness of MSMEs digitization.
- 3. *Trust* has a positive and significant impact on the Intention to Use the digitization of MSMEs.
- 4. *Personal Initiatives and Characteristics* positively and significantly influence the Intention to use the digitization of MSMEs.
- 5. *Perceived Ease of Use* has a positive and significant effect on the Intention to use digitalization of MSMEs
- 6. *Perceived Usefulness* has a positive and significant effect on the Intention to use the digitization of MSMEs

## Structural Equation Modelling

To achieve the objectives of research and hypothesis submission, the data obtained is then processed according to the needs of the analysis using the Structural Equation Model (SEM). Structural Equation Modeling (SEM) is a multivariate analysis technique that combines the confirmatory factor analysis aspect and the tiered aspect of the simultaneous equation model. There are two steps in SEM modeling, namely: (1) measurement model that is testing the dimensions of a construct, (2) structural model that is testing the causality relationship between variables.

The analysis model proposed in this study can be seen in figure 2.



#### **RESULT AND DISCUSSION**

#### Measurement Model Evaluation (Outer Model)

The evaluation of the measurement model includes three stages, namely convergent validity test, discriminant validity test, and composite reliability test. The convergent validity reflects the correlation between the indicator score and its construct score, which in the PLS model is stated valid if it has an outer loading value of  $\geq 0.7$  and an AVE value  $\geq$  of 0.5 (Jogiyanto, 2009). According to Chin (1998) in Ghozali (201), a correlation meets the validity of convergence if it has a loading value of more than 0.5. This test aims to determine the validity of each relationship between an indicator and its latent variables. The convergent validity test of the 26 indicators used in this study has four declared invalid indicators: two indicators for personal initiative and character (PI) variables and two indicators on Trust variables. Furthermore, the four invalid indicators are removed from the model so that only 22 indicators will be processed.

Testing the validity of discriminant (discriminant validity) reflective indicators needs to be done by comparing the values in the cross-loading table. This test is used to ensure that the concept of each variable or has a unique value that only correlates with the indicators in the variable. An indicator is said to meet the validity of the discriminant if the cross-loading value of the indicator against its variable is the largest compared to other variables. The results of the discriminant validity test show that the construct has an adequate discriminant in the sense that all constructs have better discriminant validity than the indicators in the other blocks (Table 2).

	Context	Intention to Use	Perceived Ease of Use	Perceived Usefulness	Personal Initiatives- Characteristic	Trust	
Context	0,840						
Intention to Use	0,651	0,940					
Percieved Ease of Use	0,568	0,776	0,861				
Percieved Usefulness	0,712	0,787	0,722	0,912			
Personal Initiatives-	0,834	0,612	0,631	0,614	0,916		
Chararteristic							
Trust	0,508	0,321	0,350	0,423	0,434	0,824	
Source: Primary data, processed							

**Tabel 2**. Discriminant Validity

Reliability testing of indicators is important because it explains how large an item is as an indicator of the measured construct. The test can be done with several approaches, namely Cronbach's alpha, correlated item-total correlation, Composite Reliability, and Average Variance Extracted (AVE. Cronbach's Alpha is a measure of reliability with values ranging from zero to one (Hair et al., 2010). A variable that includes several indicators is reliable if the minimum reliability level value of Cronbach's Alpha is 0.70 (Eisingerich and Rubera, 2010). If using correlated item-total correlation, an indicator is reliable if it has a correlation value of at least 0.50 (Hair et al., 2010). Meanwhile, if using a composite reliability approach is considered better in estimating the internal coexistence, the indicator is declared reliable if it has more than 0.6. By paying attention to these approaches (Table 3), consistently, the indicators on all variables studied are declared reliable.

Table 3.	Construct	Reliability	and Validity

	Cronbach's	rho_A	Composite	Average Variance
	Alpha		Reliability	Extracted (AVE)
Contex	0,898	0,920	0,923	0,706
Intention to Use	0,869	0,876	0,939	0,884
Percieved Ease of Use	0,881	0,903	0,919	0,741
Percieved Usefulness	0,900	0,917	0,937	0,832
Personal Initiatives-Chararteristic	0,904	0,913	0,940	0,840
Trust	0,883	0,906	0,913	0,679

Source: Primary data, processed

## **Structural Model Evaluation (Inner Model)**

Evaluation of structural models in SEM with PLS is conducted by conducting R-squared tests and significance tests by estimating path coefficients. Table 4 presents R Square calculation results. The coefficient of determination or R-Square reflects how much a free variable affects dependent variables. The higher the coefficient of determination (R Square) indicates that the better the model, it also has the more precise predictive power. According to Chin (1998) in Ghozali (2013), the model is good if it has a coefficient of determination of at least 0.67. Based on this idea, overall independent variables could explain the model variation as high as 71.6 percent (0.716), which means in either category. Meanwhile, the Context variable only explains the variation of the Perceived Ease of Use variable by 32.3 percent and Perceived Usefulness by 50.7 percent.

l' <b>able 4</b> . R-Square					
	R Square	R Square Adjusted			
Intention to Use	0,716	0,694			
Perceived Ease of Use	0,323	0,310			
Perceived Usefulness	0,507	0,498			
Source: Primary data, processed					

ource: Primary data, processe
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## **Significance Tes**

The significance test is intended to identify a large number of independent variables affecting dependent variables. We are bootstrapping Calculation Results data Research using SEM PLS presented in table 5 shows that there are two other hypotheses, namely Trust has a positive and significant effect on the intention to use digitalization of MSMEs and Personal Initiatives and Characteristics has a positive and significant impact on the intention to use digitalization of MSMEs is not proven, with a t-test value smaller than 1.65581 or sig. >0.05.

	Original	Sample	Standard	Т	Р
	Sample	Mean	Deviation	Statistics	Values
Contex -> Percieved Ease of Use	0,568	0,576	0,105	5,411	0,000
Contex -> Percieved Usefulness	0,712	0,718	0,070	10,154	0,000
Percieved Ease of Use -> Intention to Use	0,399	0,406	0,150	2,663	0,008
Percieved Usefulness -> Intention to Use	0,460	0,466	0,167	2,752	0,006
Personal Initiatives-Chararteristic -> Intention to Use	0,104	0,097	0,197	0,525	0,600
Trust -> Intention to Use	-0,059	-0,047	0,084	0,700	0,484

Table 5. Path Coeficients

Source: Primary data, processed

Four hypotheses are statistically supported. The four hypotheses are Context has a positive and significant effect on the Ease-of-Use digitizing MSMEs. Context has a positive and significant effect on the perceived usefulness of MSME digitization. Perceived Ease of Use has a positive and significant impact on the intention to use MSME digitization, and Perceived Usefulness has a positive and significant impact on intention to use the digitization of SMEs. This is reflected in the t-statistical value, which is greater than the t-table of 1.65581, or the probability value of sig. 0.000 is less than the specified alpha of 0.05.

Context has a positive and significant effect on Perceived Ease of Use and Perceived Usefulness. It means that there is a unidirectional change between Context and Perceived Ease of Use and Context with Perceived Usefulness. The use of digital technology by people around, pleasant experiences, ease of access, and a higher government drive will encourage the increased confidence to use certain system technologies will provide convenience to improve the efficiency of its work. Perceived Ease of Use has a positive and significant effect on the intention to use digitalization of MSMEs. It means that people believe that digital technology will provide convenience and that digital technology improves its working efficiency, the higher the intention to use digital technology. The digitalization of MSMEs is getting easier to implement.



Figure 2. Structure Model (Path Coefficients Diagram)

Context has more effect on perceived Usefulness than it does on perceived Ease of Use, reflected in the regression coefficients of 0.712 and 0.568. Perceived Ease of Use has more influence on the intention to use digitalization of MSMEs than Perceived Usefulness. The coefficient of each is positive and significant of 0.460 reflects that condition. Context indirectly affects the intention to use digitalization of MSMEs and significant influence on Perceived Ease of Use and Perceived Usefulness, respectively to P-Value 0.048 and 0.012 and a P-Value total of 0.000

#### Table 6. Indirect Effect

	Original	Standard	Т	Р		
	Sample	Deviation	Statistics	Values		
Contex -> Percieved Ease of Use -> Intention to	0,227	0,114	1,986	0,048		
Use						
Contex -> Percieved Usefulness -> Intention to	0,328	0,130	2,531	0,012		
Use						
Contex -> Intention to Use	0,477	0,113	4,226	0,000		
Source: Primary data, processed						

## Discussion

Using the UTAUT tested by path analysis using the PLS 3.29 series shows that the model built meets the goodness of fit criteria. The convergent validity that reflects the correlation between the indicator score and its construct score was valid with the outer loading value of  $\geq$  0.7 and an AVE value  $\geq$  of 0.5. The discriminant validity test that ensures that each variable has a unique value shows that the construct has an adequate discriminant in the sense that all constructs have better discriminant validity than the indicators in the other blocks. The composite reliability test that shows the reliability of indicators that tested by Cronbach's alpha, correlated item-total correlation, Composite Reliability, and Composite Reliability also shows consistently, the indicators on all

variables studied are consistently reliable. It has *Cronbach's Alpha*  $\ge$  0,70, a correlation value and Average Variance Extracted (AVE)  $\ge$  0.50, and Composite Reliability  $\ge$  0.6. Evaluation of structural models in SEM with PLS that reflected by the coefficient of determination shows that the model has an R-Square of 71.6 percent (0.716). It means that aggregately the independent variables could explain the model variation quite high at 71.6 percent (0.716). Meanwhile, the Context variable only explains the variation of the Perceived Ease of Use variable by 32.3 percent and Perceived Usefulness by 50.7 percent.

There are four hypotheses of UTAUT implemented on MSMEs that are statistically proven. The four hypotheses are Context has a positive and significant effect on the Ease-of-Use digitizing MSMEs. Context has a positive and significant effect on the perceived usefulness of MSME digitization. Perceived Ease of Use has a positive and significant impact on the intention to use MSME digitization, and Perceived Usefulness has a positive and significant impact on intention to use the digitization of SMEs. This is reflected in the t-statistical value, which is greater than the t-table of 1.65581, or the probability value of sig. 0.000 is less than the specified alpha of 0.05. This finding is a little bit different from the UTAUT model the be referred which shows that Personal Initiatives-Characteristics and Trust also have a positive significance toward intention to use. It is probably because of the differences in the character of the sample and desensitization. Desensitization is a gradual process that can affect a person's perspective. It may work in the case of intention to digitalize, especially in using financial technology (FinTech). How a person will behave can also be explained by the Stimulus, Organism, Response (SOR). SOR explains the influence of the physical environment on the internal state and individual behavior (Park, 2008). The stimulus affects the internal organism of an individual, which is reflected in its cognitive and affective aspects. Both are implemented by intermediaries and processes that mediate the relationship between stimulus and individual responses in purchasing behavior for organic food.

The knowledge possessed by individuals will determine attitudes and ultimately have implications for their behavior. According to The Theory of Reasoned Action, how a person will behave can be predicted from his behavioral intention. There are two variables for determining it, namely attitudes and subjective norms. If someone has a positive attitude towards an attitude object, then a high intention will appear if the social norms support this behavior. Attitudes towards something are influenced by the characteristics of the object of behavior and the evaluation of its benefits if someone behaves as he would do. If the individual feels the benefits directly, then he will build positive behavioral attitudes. The insignificant effect of the Trust and personal initiative and characteristics in this study is understandable. It is probably affected by culture. People tend to trust other people, such as public figures and the people surrounding them (family, close friends). People will believe in technology if other people are already using it.

## CONCLUSSION AND RECOMMENDATION

Generally, the UTAUT test shows that the model works on Adopting Financial Technology (FinTech) by MSMEs. The Measurement Model Evaluation (Outer Model) and Structural Model Evaluation (Inner Model) reflect that the model work. However, regarding the factors that influence the behavior intention in using Fintech by MSMEs, it is different from previous research that became a reference. In the referenced model, Context has a significant positive effect on Perceived Ease of Use and Perceived Usefulness. Personal Initiatives and Characteristics, Trust, Perceived Ease of Use, and Perceived-Usefulness, have a significant positive effect on the intention to use fintech. In this study, there are four hypotheses proven. Those are Context had a significant positive effect on Perceived Usefulness had a significant positive effect on the intention to use function to the intention of the intention of the intention of the usefulness had a significant positive effect on the intention to use function the intention of the usefulness had a significant positive effect on the intention to use function the usefulness had a significant positive effect on the intention to use function t

Concerning efforts to realize financial inclusion as part of poverty alleviation efforts by improving MSMEs' competitiveness, the government needs to encourage the use of digital technology. The government can do providing training and guaranteeing ease of installation and access to digital technology. In addition, starting from the findings that perceived ease of use and perceived usefulness have a significant effect, decision-makers must show that the system technologies provide convenience and increase the effectiveness to improve the efficiency of its work.

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