COSTING: Journal of Economic, Business and Accounting

Volume 8 Nomor 5, Tahun 2025

e-ISSN: 2597-5234



ANALYSIS OF THE TECHNOLOGY READINESS AND ACCEPTANCE MODEL (TRAM) WITH TRUST IN DIGITAL SERVICES TOWARDS THE ADOPTION OF THE JAKI APPLICATION FOR SUSTAINABLE DIGITAL INFRASTRUCTURE (SDGs 9)

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ABSTRACT

Digital transformation in public services requires systems that are not only useful but also capable of building user trust. This study aims to analyze the influence of Technology Trust (TTR) on Perceived Usefulness (PU) and the role of Perceived Usefulness in enhancing Intention to Use (ITU) digital systems. The research employed a quantitative approach using Partial Least Squares – Structural Equation Modeling (PLS-SEM) with SmartPLS. Data were collected through questionnaires distributed to respondents who had experience using digital services. The findings reveal that Technology Trust has a positive and significant effect on Perceived Usefulness, while Perceived Usefulness strongly affects Intention to Use. These results emphasize that trust is a strategic factor in shaping the perceived usefulness of technology, which ultimately drives user intention to adopt digital systems. The practical implications suggest that organizations should strengthen trust ecosystems, highlight tangible system benefits, and improve user experience to ensure the successful adoption of digital technologies.

Keywords: Technology Acceptance Model, Trust, Perceived Usefulness, Intention to Use, PLS-SEM.

INTRODUCTION

The era of digital transformation has prompted governments around the world to adopt information and communication technology the delivery of public services [1], [2]. Digital government has emerged as a new paradigm emphasizing the use of technology to enhance efficiency, transparency, and accessibility of public services for citizens [3], [4]. In the context of Indonesia, the Jakarta Provincial Government has been a pioneer in implementing the smart city concept through various digital innovations, one of which is the Jakarta Kini (JAKI) application launched on September 27, 2019 [3].

JAKI is a super-app integrates more than 50 digital public services from various Regional Government Agencies (OPD) in Jakarta [5], [6]. The app offers various key features such as JakLapor for citizen reporting, JakWarta for up-to-date information, JakPangan for monitoring staple goods prices, JakSehat for health services, and JakLingko for public transportation [7], [8]. With the vision of becoming a "one-stop service" for Jakarta residents, JAKI has successfully won various awards, including the 2023 Digital Government Award in the category of Implementation of Electronic-Based Government Services (SPBE) [9].

Despite achieving various accomplishments, the adoption of digital technology government complex challenges related to user acceptance. Research shows that the success of e-government system implementation is not only determined by the quality of the technology itself, but is also influenced by psychological and social factors that affect users' intentions to adopt the technology. In this context, the Technology Acceptance Model (TAM) has become the most widely used theoretical framework for understanding and predicting technology adoption behavior [10].

However. recent research indicates that the classical TAM model has limitations in explaining complexity of technology adoption in the digital age, particularly for government applications [11], [12]. A systematic literature review analyzing 36 articles published between 2020 and 2025 revealed that external factors such as system trust. quality, perceived enjoyment, service quality, technological self-efficacy significantly influence user satisfaction and enhance the explanatory power of the TAM model [13].

Technology Readiness emerges as an important construct that needs to be integrated with TAM to provide a more comprehensive understanding technology adoption. The concept Parasuraman (2000) developed by measures individuals' tendency to adopt technology based on dimensions: optimism, innovativeness, discomfort, and insecurity. integration of the Technology Readiness

Index (TRI) and TAM results in the Technology Readiness and Acceptance Model (TRAM), which has been shown to have an R-squared value of up to 92% in explaining the variance in intention to use [14], [15].

In addition, trust in digital services is a critical factor in the context of government application adoption. Research shows that digital trust has declined globally, with only the banking (44%) and government (41%) sectors still trusted by consumers. Trust in digital services encompasses aspects of reliability, security, data integrity, and privacy protection, all of which are important considerations for the public in adopting government applications [16], [17].

In the context of mobile applications. government research shows that perceived usefulness and perceived ease of use remain the main predictors of behavioral intention, but additional constructs such as trust, service quality, and information quality make a significant contribution to the technology acceptance model [18]. An empirical study on the Peduli Lindungi app in Indonesia confirms integrating the TAM model with the Information Systems Success Model provides a better understanding of the factors influencing the adoption of mgovernment apps [19].

Previous research on the implementation of the JAKI application has yielded mixed results. A study by [20] found that the implementation of JAKI to achieve excellent service has been quite successful, although there are still challenges in inter-organizational relationships within the government, inadequate socialization, and privacy policy issues. Meanwhile, other studies have identified that the effectiveness of e-government implementation in the JAKI application in public services as a

manifestation of a smart city in DKI Jakarta is not yet optimal due to several problems in its implementation [6], [21].

Although various studies have been conducted on the JAKI application, there is still a significant research gap in understanding the factors that influence technology acceptance from the user's perspective. Previous studies have focused more on policy implementation aspects and system effectiveness, but have not comprehensively analyzed the psychological social and factors influencing the public's intention to use the JAKI application [22]. Additionally, no research has integrated the constructs of technology readiness and trust in digital services into a technology adoption model for government applications in Indonesia.

The urgency of this research is increasing given the rapid development of digital technology and public demand for more efficient and accessible public services. With JAKI downloads reaching over 1 million on Google Play Store and a rating of 4.6, it is important to understand the factors that encourage or hinder the adoption of this application. A understanding of technology adoption behavior will provide valuable insights policymakers for practitioners to increase the adoption rate and user satisfaction with government digital services.

Based on these conditions, this study aims to analyze the factors that influence the acceptance of the JAKI application using an extended Technology Acceptance Model that integrates the constructs of Technology Readiness and Trust in Digital Services. The proposed model will test two hypotheses that describe the relationship between constructs, namely (H1) The combined construct (Technology Readiness, PEOU, and Trust) has a positive effect on Perceived Usefulness.

(H2) Perceived Usefulness has a positive effect on Intention to Use.

This study is expected to contribute theoretically in the form of a more comprehensive technology acceptance model for digital government applications. The results of this study can also serve as a reference for other local governments seeking to implement similar applications in order to achieve sustainable smart cities and digital governments.

LITERATURE REVIEW AND HYPOTHESIS

Technology Readiness

The original Technology Readiness is rooted in literature on the adoption of new technologies and human-technology interactions [23]. Technology Readiness (TR) is defined as "a person's tendency to accept and use new technologies to achieve goals in their home and workplace." TR is an individual difference variable that reflecting resembles a trait. individual's general attitude toward the adoption of new technology. TR is often used as a psychographic variable in decision-making-oriented research and by marketing managers in contexts where technology-based innovation is key [24].

Technology Readiness (TR) is a construct that measures the extent to which individuals feel prepared and capable of using new technology. TR consists of four main dimensions: optimism, innovativeness, discomfort, and insecurity [25]. Previous research has shown that technology readiness levels can enhance perceived usefulness and perceived ease of use toward a digital application [26]. The Technology Readiness and Acceptance (TRAM) integrates the concept of readiness into the technology acceptance model and has been shown

significantly improve the explanation of the variance in intention to use digital applications [26].

Perceived Ease of Use

Perceived Ease of Use refers to the extent to which a person believes that using a particular system does not require much effort. In other words, perceived ease of use is the extent to which a system is considered easy to understand and use. This is in line with the definition of "ease" as "free from difficulty or great effort." Effort is a limited resource that a person can allocate to various activities that are their responsibility. Assuming other factors remain the same, we state that an application that is perceived as easier to use than others tends to be more readily accepted by users [10]. Several studies have found that ease of use significantly influences intention to use, both directly and indirectly through a mediating relationship [11], [27].

Perceived Usefulness

Perceived Usefulness is a key concept in the Technology Acceptance Model (TAM) that refers to the extent to which an individual believes that using a system or technology will improve their performance or productivity [28]. This concept originates from motivation theory, which states that individuals tend to be motivated to perform an action if that action is perceived as a means to achieve goals they value or consider important. In this context, Perceived Usefulness becomes a strong motivational factor in encouraging someone to adopt new technology. Studies have shown that perceived influences usefulness significantly intention to use, both directly and indirectly through mediating relationships [11], [27].

Trust in Digital Service

Trust is used in human society to deal with high-risk situations, where individuals involved in interactions have little or no information about each other. In other words, trust plays an important role as a social mechanism when uncertainty is high and available information is limited. allowing individuals to continue making decisions and engaging in interactions despite potential risks [29].

Trust in digital services refers to users' belief that digital applications or systems are reliable, secure, protect privacy, and will not be misused. Trust is an important factor in the adoption of digital government systems due to the high perceived risks to security and privacy. Research shows that trust can directly influence perceptions of the and ease usefulness of use applications, as well as encourage usage intentions [20], [30]. In government domain, the level of public trust in the security and credibility of digital services has an impact on the adoption and successful level of implementation of government applications [20].

Intention to Use

Intention to use refers to an individual's desire or intention to use a digital application or system in the near future. Intention to use is often directly influenced by perceived usefulness and perceived ease of use, as well as external factors such as trust and technology readiness [25], [31], [32]. Studies in the context of mobile government, including the JAKI application, also show a consistent relationship between the above constructs [33], [34].

Technology Acceptance Model (TAM)

The Technology Acceptance Model (TAM) has evolved into a key

model for understanding the factors that predict human behavior toward the acceptance or rejection of a technology. This model provides a systematic framework for explaining how and why individuals decide to use or reject technology, particularly through two main constructs: Perceived Usefulness and Perceived Ease of Use [35]. The primary objective of TAM is to explore the factors influencing user acceptance of product development models within an organizational environment. This model is designed to identify and explain the key elements that drive individuals to decide to accept or reject the use of a new system or technology.

Based on the Technology Acceptance Model (TAM), Perceived Usefulness (PU) and Perceived Ease of Use (PEOU) play an important role in shaping the Intention to technology [10]. Several studies have expanded TAM by adding external variables, such as Technology Readiness (TR), which has been shown to significantly influence PU and Intention to Use, as individuals' psychological and readiness affects technical perception of technology [23], [36]. Additionally, Trust in Digital Services has a positive influence on PU and PEOU, as trust in the system and service providers can enhance users' confidence and comfort [37], [38]. Furthermore, PU and PEOU were also found to influence each other, where ease of use strengthens the perception of usefulness [39]. These studies reinforce the assumption of a causal relationship between the five constructs used in this study.

In this study, Technology Readiness (TR), Trust in Digital Service (Trust), and Perceived Ease of Use (PEOU) are combined into a secondlevel construct called Technology Trust and Readiness (TTR). This decision is based on conceptual and methodological considerations. Conceptually, these three represent distinct variables complementary dimensions of an individual's readiness and comfort in adopting digital technology. TR reflects an individual's psychological readiness and optimism toward technology [23], Trust reduces psychological barriers caused by perceived risk and enhances a sense of security [29], while PEOU reduces cognitive barriers by ensuring that the system is easy to use [10]. Combined. three the form comprehensive construct that reflects an overall positive predisposition toward technology adoption.

From methodological studies have perspective, previous shown that TR, Trust, and PEOU have high correlations and similar influence paths on the variables of Perceived Usefulness and Intention to Use [15], [24]. These high correlations have the potential to cause multicollinearity issues in the PLS-SEM model. Therefore, following the guidelines of [40], these constructs were combined into a secondorder construct to enhance model parsimony and avoid data redundancy, without losing the theoretical meaning of each constituent dimension. With the formation of the TTR construct, this study can test the overall influence of technological readiness and comfort on Perceived Usefulness while maintaining the detail of the indicators from each of its constituent dimensions.

Based on the above description, the hypothesis proposed in this study is as follows:

H1: The combined construct (Technology Readiness, PEOU, and Trust) has a positive effect on Perceived Usefulness.

H2: Perceived Usefulness has a positive effect on Intention to Use.

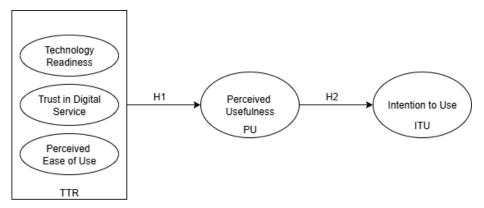


Figure 1. Research Theoretical Framework Model

METHOD

This study is a quantitative study with an explanatory research approach that aims to examine the relationship and influence between variables using a developed theoretical model.

Population and Sample

The population used in this study was all potential and actual users of the JAKI application in the DKI Jakarta Province from the general public. The sample in this study was active users or those who had used the JAKI application at least once in the last 6 months. The sampling technique used in this study is purposive sampling, with criteria including being at least 17 years old, having accessed or used the JAKI app, and residing in the Jakarta Special Capital Region. The sample size used is minimum of 100 respondents, following the minimum requirement for SEM-PLS analysis, which is at least 5-10 times the number of research indicators [41].

Data Collection Techniques

The instrument used in this study was a questionnaire distributed through social media and to communities and the general public. The questionnaire was distributed non-randomly using

purposive sampling techniques to reach respondents who had used the JAKI application at least once in the last six months. The questionnaire was designed using a 4-point Likert scale, where respondents were asked to indicate their level of agreement with the statements presented, with response options ranging from 1 (Strongly Disagree) to 4 (Strongly Agree).

Instrument testing was conducted in two stages: validity testing and reliability testing. Construct validity was evaluated using outer loading values and Average Variance Extracted (AVE) values, with minimum thresholds of 0.7 respectively. 0.5, Meanwhile, construct reliability was tested using Cronbach's Alpha and Composite Reliability values, with a recommended threshold of ≥ 0.7 to indicate good internal consistency among indicators within a single variable. The entire analysis process was conducted using a Partial Least Squares-based Structural Modeling Equation (SEM-PLS) approach through SmartPLS software.

Analysis Method

The data were analyzed using the Structural Equation Modeling - Partial Least Squares (SEM-PLS) method with

the help of SmartPLS software. The analysis steps included [11], [26], [27]:

- Evaluation of the measurement model (outer model): validity and reliability tests.
- Evaluation of the structural model (inner model): path coefficient tests,
 R² and Q² values, and significance tests using bootstrapping.
- Hypothesis testing was conducted by examining the t-statistic and p-value (cut-off: t > 1.96 and p < 0.05).

Operational Variables

The variables used in this study include:

- 1. Dependent Variable
 Intention to Use (Y): Users' intention
 to use the JAKI application
 continuously in the future [27].
- 2. Independent Variable
 TTR (Technology Trust and
 Readiness) (X): A second-order
 construct representing readiness, trust,
 and perceived ease of use of
 technology, formed by:
 - Technology Readiness (X1): The level of individual readiness to accept and use new technology [23].
 - Trust in Digital Service (X2): The level of user trust in the system, security, and JAKI application provider [17].

- Perceived Ease of Use (X3): Individuals' perceptions that the JAKI application is easy to use and understand [10].
- 3. Intervening Variables
 Perceived Usefulness (X4):
 Individuals' perceptions that the JAKI
 application is useful in daily activities
 and improves efficiency [10].

Research Variable Operationalization Table

To measure each construct in the research model, it is necessary to translate the concept into measurable indicators that are compiled in the form of questionnaire items. This process is called variable operationalization. The variable operationalization table serves as a reference to ensure that each variable studied has a clear operational definition and can be measured quantitatively. Each variable in this study, whether independent, dependent, or intervening, is developed based on relevant theory and previous studies, and measured using items that have been validated in previous literature. The formulation of indicators in following table is also adapted to the context of JAKI as a public digital service owned by the Provincial Government of DKI Jakarta.

Table 1. Research Variable Operationalization

No.		Variable	Operational	Indicators	Statement Item	Scale
1	Technology Trust and Readiness (TTR)	Technology Readiness (X1) [42]	The level of psychological and mental readiness of users in accepting and using technology	DiscomfortInsecurity	I am excited to try new apps or features on the JAKI app.	Likert 1-4
		Trust in Digital Service (X2) [37], [43]		Trust in institutionPerceived integrity	 I am confident that the JAKI app protects the privacy of its users. I believe that JAKI provides accurate and reliable information. 	Likert 1-4

	Perceived Ease of Use (X3) [10]	Level of • Clarity of interface perception that the • Ease of navigation application is easy • Ease of learning to learn and operate	 e • Operating the JAKI app requires little effort. • The menu navigation in the JAKI app is clear and easy to use. • I did not encounter any significant difficulties when using the JAKI feature. 	Likert 1-4
2	Perceived Usefulness (X4) [44]	The level of • Task efficiency perception that the • Effectiveness use of the • Productivity application helps improve the effectiveness or quality of user activities	 Using JAKI makes it easier for me to access public services. JAKI improves the efficiency of my activities related to government services. JAKI is useful in my daily life. 	Likert 1-4
3	Intention to Use (Y) [44], [45]	The level of • Behavioral intention or desire intention of users to use the • Future use JAKI application • Continuance in the future intention	 I intend to use the JAKI app regularly in the future. I will recommend the JAKI app to others. I want to use the JAKI app when I need public services. 	Likert 1-4

RESULT AND DISCUSSION Respondent Characteristics

The research questionnaire obtained 235 respondents. The research

respondents had various characteristics, which can be seen in the following figure.

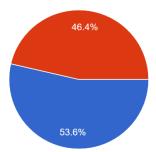


Figure 2. Gender of Respondents

The majority of respondents who completed the questionnaire were male, accounting for 53.6% of the total, or 126

participants. Meanwhile, female respondents accounted for 46.4% of the total, or 109 participants.

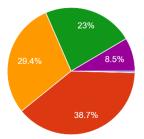


Figure 3. Age of Respondents

Respondents in the study were divided into several age categories. The majority of respondents were aged 17-25 years, accounting for 38.7% or 91 respondents. Next, the 26-35 age group

accounted for 29.4% or 69 respondents. The 36-45 age group made up 23% or 54 respondents, and respondents aged over 45 years old accounted for 8.5% or 20 respondents.

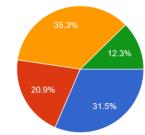


Figure 4. Respondents' Education

Respondents in the study had varying levels of education. Respondents with a bachelor's degree dominated the study, accounting for 35.3% or 83 respondents. Next, respondents with a high school/vocational school education level also dominated the study,

accounting for 31.5% or 74 respondents. Meanwhile, respondents with an associate's degree and master's/doctorate degree levels accounted for 49 respondents and 29 respondents, respectively.

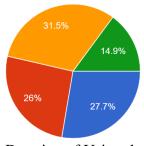


Figure 5. Duration of Using the JAKI App

Research respondents had varying durations of JAKI app usage. The majority of respondents used the JAKI app for 4-12 months.

Validity Test

This section contains research instrument testing, explaining validity testing. The purpose of validity testing is to ensure that the indicators actually

measure the intended construct. Validity testing is divided into convergent validity testing and discriminant validity testing. Convergent validity testing aims to ensure that the indicators within a single construct truly converge to measure the same thing. Table 2 shows the results of convergent validity testing, as indicated by the results of the Cross Loadings analysis.

Table 2. Cross Loadings

	ITU	PU	TTR	
ITU1	0.904	0.853	0.722	
ITU3	0.886	0.772	0.868	•

ITU4	0.923	0.800	0.773	
PU1	0.840	0.907	0.728	
PU2	0.793	0.902	0.803	
PU4	0.808	0.918	0.770	
TTR1	0.617	0.596	0.785	
TTR2	0.624	0.625	0.788	
TTR3	0.741	0.736	0.843	
TTR4	0.793	0.747	0.881	
TTR5	0.767	0.798	0.886	•
TTR6	0.852	0.770	0.906	

Source: SmartPLS 4 output, 2025.

Based on the results discriminant validity testing through cross loadings, it can be seen that each indicator has a higher loading value on the construct it measures compared to the loading on other constructs. In the Intention to Use (ITU) construct, the ITU1, ITU3, and ITU4 indicators show loadings of 0.904, 0.886, and 0.923, respectively, which are higher than the loadings for the Perceived Usefulness (PU) and Trust (TTR) constructs. The same pattern is observed in the PU construct, where indicators PU1, PU2, and PU4 have loadings of 0.907, 0.902, and 0.918, respectively, which are higher than the loadings on other constructs. Meanwhile, in the TTR construct, all TTR1 to TTR6 indicators have the highest loadings in the TTR construct (0.785 to 0.906) compared to the ITU and PU constructs. Thus, it can be concluded that all indicators in this study meet the criteria for discriminant validity through the cross loadings test, so no indicators need to be eliminated.

In addition to the cross-loading analysis results, the convergent validity test also examines the AVE (Average Variance Extracted) analysis results. Table 3 shows the convergent validity test results indicated by the AVE (Average Variance Extracted) analysis results.

Table 3. AVE (Average Variance Extracted)

	Cronbach's alpha	Composite reliability (rho_a)	Composite reliability (rho_c)	Average variance extracted (AVE)
ITU	0,889	0,891	0,931	0,818
PU	0,895	0,895	0,934	0,826
TTR	0,922	0,930	0,939	0,722

Source: SmartPLS 4 output, 2025.

Based on the data analysis results, it can be seen that the AVE (Average Variance Extracted) values for all research constructs have met the convergent validity criteria. The Intention to Use (ITU) construct has an AVE value of 0.818, the Perceived Usefulness (PU) construct has an AVE

value of 0.826, and the Trust (TTR) construct has an AVE value of 0.722. All of these values are greater than the minimum threshold of 0.50, so it can be concluded that each construct is able to explain more than 50% of the variance of the indicators that form it. Thus, all constructs in this research model have

met the convergent validity requirements, and the instruments used are deemed valid

Meanwhile, the discriminant validity test aims to ensure that each construct in the model is truly distinct from one another so that there is no overlap in measurement. The discriminant validity test can be seen from the results of the Fornell-Larcker Criterion analysis. The results of the Fornell-Larcker Criterion test can be seen in Table 4.

Table 4. Fornell-Larcker Criterion

	ITU	PU	TTR	
ITU	0,905			
PU	0,895	0,909		
TTR	0,868	0,844	0,849	

Source: SmartPLS 4 output, 2025.

Based on the results ofdiscriminant validity testing using the Fornell-Larcker criteria, it can be seen that the AVE square root value (shown on the main diagonal) is higher than the correlation between the constructs below it. The Intention to Use (ITU) construct has an AVE root mean square value of 0.905, which is higher than the correlation between ITU and Perceived Usefulness (PU) at 0.895, as well as with Trust (TTR) at 0.868. The PU construct has a $\sqrt{\text{AVE}}$ of 0.909, also higher than its correlation with ITU (0.895) and TTR (0.844). Similarly, the TTR construct with an $\sqrt{\text{AVE of } 0.849}$ is greater than

its correlation with ITU (0.868) and PU (0.844). Thus, all constructs in this study have met the Fornell-Larcker criteria, meaning that each construct has good discrimination and can be clearly distinguished from other constructs.

Reliability Test

Reliability testing was conducted to determine the internal consistency of the indicators in measuring the construct. To measure reliability, Cronbach's Alpha (a), Composite Reliability (CR or rho_c), and rho_A values were taken into consideration.

Table 5. Reliability Test Results

	Cronbach's alpha	Composite reliability	Composite reliability
		(rho_a)	(rho_c)
ITU	0,889	0,891	0,931
PU	0,895	0,895	0,934
TTR	0,922	0,930	0,939

Source: SmartPLS 4 output, 2025.

Based on the reliability test results, all constructs in this study have met the reliability criteria. The Intention to Use (ITU) construct has a Cronbach's Alpha value of 0.889, a rho_A value of 0.891, and a Composite Reliability (CR)

value of 0.931. The Perceived Usefulness (PU) construct shows a Cronbach's Alpha value of 0.895, a rho_A of 0.895, and a CR of 0.934. Meanwhile, the Trust (TTR) construct obtained a Cronbach's Alpha value of

0.922, a rho_A of 0.930, and a CR of 0.939. All Cronbach's Alpha, rho_A, and Composite Reliability values are above the minimum threshold of 0.70, so it can be concluded that all constructs in this study have high internal consistency. Thus, this research instrument is proven to be reliable and trustworthy for measuring the constructs under study.

Hypothesis Testing

At this stage, hypothesis testing is conducted to determine whether the relationships between variables formulated in the research model are

empirically proven. Hypothesis testing is performed through structural model analysis (inner model) using bootstrapping method in SmartPLS. Through this procedure, path T-statistics. coefficients. and significance values (p-values) can be obtained, which are used to determine whether a hypothesis is accepted or rejected. Thus, the results of this testing will form the basis for answering the research questions and supporting or rejecting the conceptual framework that has been proposed previously.

Table 6. Results of path coefficient analysis using the bootstrapping method

	Original sample (O)	Sample mean (M)	Standard deviation (STDEV)	T statistics (O/STDEV)	P values
PU -> ITU	0,895	0,895	0,011	83,220	0,000
TTR -> PU	0,844	0,844	0,014	58,685	0,000

Source: SmartPLS 4 output, 2025.

Based on the bootstrapping analysis results, it was found that the Perceived Usefulness (PU) variable had a significant effect on Intention to Use (ITU) with an original sample value of 0.895, a T-statistic value of 83.220 (>1.96), and a p-value of 0.000 (<0.05). This indicates that the higher the perceived usefulness, the higher the users' intention to use the system. Furthermore, the Trust (TTR) variable was found to have a significant effect on Perceived Usefulness (PU) with an original sample value of 0.844, a Tstatistic value of 58.685 (>1.96), and a pvalue of 0.000 (<0.05). Thus, it can be concluded that both research hypotheses are accepted because each relationship between variables has a positive and significant influence.

Discussion

The results of this study strongly support the Technology Acceptance Model (TAM) theory. The findings show that Perceived Usefulness (PU) has a significant effect on Intention to Use (ITU) with a value of 0.895. This figure is higher than the average of previous studies (around 0.6) according to [46]. The very high T-statistic value of 83.220 proves that the relationship between perceived usefulness and intention to use the system is indeed strong and significant. This result is in line with [10], who stated that a system will be accepted if users feel that it helps them in their work. In other words, the more users feel the real benefits, the higher their desire to use it. Additionally, Trust (TTR), which consists of Technology Readiness, Trust in Digital Service, and Perceived Ease of Use, also significantly influences PU with a value of 0.844. This indicates that trust is a crucial factor in shaping an

individual's assessment of technology [47].

This analysis uses the method, bootstrapping a statistical technique for testing the significance of results without assuming a specific data distribution. Using this method, a pvalue of 0.000 was obtained for both hypotheses, meaning that the research results are highly significant and not coincidental. The results of this study are consistent with many studies on TAM, even showing a stronger relationship. For example, TAM2 and TAM3 studies typically explain 37–53% of variation in usage intent, while the results of this study have the potential to be higher [48]. In the context of digital banking, the PU value for ITU is usually around 0.276, significantly lower than the results of this study [49]. This means that the system under study truly provides clearer benefits for its users.

Based on the research results, there are several managerial implications that organizations can apply to improve the success of system adoption. First, organizations need to emphasize the value proposition or tangible benefits of the developed system. This can be achieved by showing concrete evidence of how the system can improve user performance, for example through pilot projects or demonstrations of work results. Second, it is important for organizations to build a trust ecosystem improving technological users' readiness, ensuring transparency in digital services, and guaranteeing data security. High levels of trust will reinforce the belief that the system is truly beneficial. Third, organizations must prioritize usability by designing simple and intuitive interfaces. Usability testing should also be conducted to ensure the system is user-friendly for types of Fourth. various users. technology implementation needs to be

accompanied by change management, because digital transformation is not only about technology, but also user behavior. Therefore, leadership support, effective communication about benefits of the system, and adequate training essential. Finally, are organizations need to conduct ongoing evaluations of user satisfaction, usage levels, and the system's impact on performance. These evaluations can help organizations make improvements and develop the system in the future.

CONCLUSION

Based on the results of the analysis using SmartPLS, all research instruments have met the validity and reliability test criteria. The convergent validity test shows that the outer loadings and AVE values are greater than the minimum limit, indicating that the indicators are able to represent the construct well. Discriminant validity tests through cross loadings, the Fornell-Larcker criterion, and HTMT also yielded adequate results, enabling each construct to be clearly distinguished another. Additionally, from one reliability tests using Cronbach's Alpha and Composite Reliability yielded values above 0.7, indicating that the research instruments are consistent and reliable.

the Furthermore, results of hypothesis testing using the bootstrapping method show that Perceived Usefulness (PU) has a positive and significant effect on Intention to Use (ITU), and Technology Trust (TTR) has a positive and significant effect on Perceived Usefulness (PU). Thus, it can be concluded that trust in technology plays an important role in increasing perceived usefulness, and ultimately, perceived usefulness encourages individuals' intention to use the system.

Acknowledgement

The authors gratefully acknowledge the financial support provided by the Faculty of Economics and Business, Universitas Negeri Jakarta, through contract number UN39.5.FEB/PT.01.03/2025 (2025).

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