EMPLOYEE READINESS FOR DIGITAL TRANSFORMATION IN LOGISTICS PROCUREMENT: THE IMPLEMENTATION OF E-PROCUREMENT AND E-VENDOR MANAGEMENT SYSTEMS AT PT ENERGIA PRIMA NUSANTARA

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Abstract. *The advancement of digital transformation has encouraged organizations to plan the implementation of digital-based procurement systems, such as E-Procurement and the E-Vendor Management System (E-VMS). However, the success of implementing these systems is not determined solely by technological readiness, but also by the readiness of employees as the primary users. This study aims to analyze employee readiness toward the planned implementation of E-Procurement and E-VMS in the logistics procurement function using the Unified Theory of Acceptance and Use of Technology (UTAUT) framework. This study employs a quantitative approach using a survey method. Data were collected through questionnaires distributed to employees who met the research criteria. Data analysis was conducted using Partial Least Squares–Structural Equation Modeling (PLS-SEM) with the assistance of SmartPLS software. The variables examined in this study include Performance Expectancy and Effort Expectancy as independent variables, Behavioral Intention as a mediating variable, and Use Behavior as the dependent variable. The results indicate that Performance Expectancy and Effort Expectancy have a positive effect on Behavioral Intention. Furthermore, Behavioral Intention has a significant influence on Use Behavior and functions as a mediating variable in the relationship between Performance Expectancy and Effort Expectancy toward Use Behavior. These findings suggest that perceived system benefits play a crucial role in shaping users' intention to use and employee readiness, particularly in supporting digital transformation within the logistics procurement function.*

Keywords: *Digital Transformation; E-Procurement; Employee Readiness; E-VMS; PLS-SEM; UTAUT*

1. INTRODUCTION

Procurement serves as a critical function in organizational operations as it significantly influences cost structures and overall organizational performance (Mwangata, Chrine, and Hapompwe, 2024). In the current digital era, many organizations face increasing pressure to continuously enhance efficiency, quality, and responsiveness within their procurement practices (Mutegi & Karani, 2024). Traditional or manual procurement methods are frequently confronted with various challenges that may negatively affect organizational performance, including process inefficiencies, high operational costs, limited transparency, as well as the potential for human error and procedural delays (Wairimu & Erick, 2024). Consequently, digital transformation within the procurement function has become strategically important for organizations seeking to improve effectiveness and efficiency in response to these challenges. One of the primary approaches to achieving such transformation is the implementation of E-Procurement systems and E-Vendor Management Systems (E-VMS). These systems are designed to streamline procurement processes, reduce costs, enhance transparency, strengthen governance, and ultimately contribute to improved organizational performance.

In practice, several tangible issues have been identified in the previous procurement system, including limited availability of historical procurement data, tender processes that remain manually executed and therefore time-consuming,

The absence of systems that support data-driven evaluation. These conditions also have implications for logistical operations, such as delivery delays resulting from prolonged tender completion, as well as insufficient integration between the procurement function and overall logistics supply chain management. Such circumstances contribute to delayed supply chain visibility, which in turn may increase logistics costs. These challenges have prompted the Company to pursue digital transformation through the planned implementation of E-Procurement and E- VMS as a strategic initiative to address existing problems.

Numerous studies have examined the impact of E-Procurement and E-VMS on organizational performance. In general, the implementation of E-Procurement has been shown to streamline procurement processes and reduce costs (Mwangata, Chrine, & Hapompwe, 2024). Wairimu and Erick (2024) report that E-Ordering, as one of the key components of E-Procurement, has demonstrated positive effects on procurement efficiency, including faster order processing and reduced lead times. Furthermore, the E-Vendor Management System (E-VMS) is widely recognized as a crucial mechanism for enhancing efficiency within global supply chains (Abbey et al., 2023). Previous studies indicate that E-VMS can improve supplier performance, reduce supplier-related risks, enhance procurement efficiency, support risk management, increase transparency, and even mitigate the risk of corruption (Wairimu & Erick, 2024). However, to the best of the researcher's knowledge, there has been no study that specifically analyzes employee readiness for digital transformation within the logistics procurement function at PT Energia Prima Nusantara. Therefore, this study is necessary as it is aimed to provide new insights into the factors influencing the success of digital transformation in the company's logistics procurement function.

PT Energia Prima Nusantara (EPN) is a company operating in the energy sector in Indonesia. In response to the growing need for digital transformation, PT EPN has planned a strategic initiative to modernize its procurement function. The company intends to commence the implementation of E-Procurement and E-VMS in 2025. This initiative explicitly aims to create a smart procurement experience through process automation. Given that the system is currently at the implementation planning stage, employee readiness for digital transformation is considered critically important. Accordingly, this study seeks to explore employee readiness for digital transformation as a preparatory step toward the transition to full operational implementation.

2. LITERATURE REVIEW
2.1 Digital Transformation in Logistic Procurement

Digital transformation refers to the process of enhancing organizational activities by triggering significant changes through the integration of information technology, computing, communication, and connectivity (Wang & Pettit, 2022). Wang and Pettit further explain that digital transformation can be understood as a corporate initiative to leverage new capabilities enabled by digital technologies in order to reshape organizational strategies and operations (2022). Such transformation does not necessarily originate solely within the organization but may also be driven by changes at the industry or societal level. Within the context of supply chains, digital transformation aims to develop supply chains that are resilient, customer-centric, intelligent, and both connected and secure. In the digital era, organizations are under continuous pressure to improve efficiency, quality, and responsiveness in their procurement practices (Mutegi & Karani, 2024). Digitalization has therefore become a strategic imperative, as it enhances connectivity among business partners and improves access to and distribution of critical data (Wang & Pettit, 2022). Without digital transformation, procurement activities are often characterized by inefficient processes, high operational costs, limited transparency, susceptibility to human error, and procedural delays (Wairimu & Erick, 2024).

2.2 E-Procurement dan E-Vendor Management System (E-VMS)

E-Procurement is a digital procurement system that utilizes internet-based technology to support the purchasing of goods and services throughelectronic communication between buyers and sellers (Ramadhan & Rahman, 2022). The implementation of E-Procurement aims to improve efficiency, reduce procurement costs, enhance transparency, and strengthen governance by streamlining administrative processes and shortening procurement cycle times (Septianingsih, 2022). In addition, E-Procurement increases transparency and accountability by providing open access to procurement information, thereby reducing the potential for corruption, collusion, and nepotism while improving data security and document confidentiality (Ramazan & Najamudin, 2021; Septianingsih, 2022). Key components of E-Procurement include E-Tendering and E-Purchasing, which facilitate electronic tender processes and procurement through electronic catalogs to ensure faster and more transparent transactions (Hendrio, 2024). The E-Vendor Management System (E-VMS) complements E-Procurement by enabling systematic supplier selection, evaluation, and monitoring. E-VMS contributes to improved supplier performance, reduced supplier-related risks, and strengthened supply chain governance, thereby supporting procurement efficiency and transparency within the supply chain (Abbey et al., 2023; Mutegi & Karani, 2024; Wairimu & Erick, 2024).

2.3 Factors Influencing the Readiness of Implementing Digital Transformation in Logistics Procurement

2.3.1 Resources

The availability of resources is a fundamental prerequisite for effective policy implementation (Wibawa, 2011). In the context of digital transformation, resources encompass human resources, financial resources, and information technology infrastructure and facilities. Human resources represent a critical factor, as they involve both the quality (skills, competencies, knowledge, and integrity) and the adequate quantity of personnel (Wibawa, 2022). Human resource readiness also includes the ability of employees to adapt to new systems and requires intensive training to enhance competence and reduce learning time (Ramazan & Najamudin, 2021). Technical expertise in information technology is particularly essential for operating E-Procurement systems, including an understanding of relevant regulations, system analysis capabilities, basic coding knowledge, and information security awareness. Financial resources are equally important, as the availability of sufficient budgetary support is a key determinant for the acquisition of infrastructure, hardware and software licenses, operational activities, and training programs (Wibawa, 2011). Furthermore, information technology infrastructure is required to support digital transformation, including hardware (such as servers, computers, scanners, and printers), software applications (procurement systems and helpdesk platforms), and communication networks (local area networks, internet connectivity, and bandwidth).

2.3.2 Technology and Integration System Level

Technology refers to the application systems (software) utilized in procurement processes, such as E-Tendering and E-Vendor Management Systems (E-VMS), as well as the supporting infrastructure (Wibawa, 2011). From a system perspective, the quality and functionality of these applications should be capable of streamlining processes, reducing costs, and enhancing transparency (Ramadhan & Rahman, 2022). Data security, system reliability, and ease of use are critical aspects of technological readiness. However, digital applications may encounter various challenges, including system errors, limitations in filtering qualified vendors, system complexity, and incompatibility with users' devices (Ramazan & Najamudin, 2021). Integrationt integration between the procurement function and overall logistics supply chain management can lead to delivery delays and limited supply chain visibility. The failure to integrate new technologies with existing platforms may disrupt organizational information flows. Therefore, system integration

is essential to enhance visibility and transparency across the entire supply chain, enabling more effective monitoring of order status, inventory levels, and delivery processes (Wang & Pettit, 2022).

2.4 Research Focus

The focus of this study is to analyze employees in relation to digital transformation within the logistics procurement function by examining key variables derived from the Unified Theory of Acceptance and Use of Technology (UTAUT), as proposed by Venkatesh et al. (2003). The variables examined in this study are described as follows:

2.4.1 X1 (Independent Variable 1): Performance Expectancy (PE) Definition:

Performance Expectancy refers to the degree to which employees believe that the E-Procurement and E-Vendor Management System (E-VMS) will enhance their job performance.
Indicators:
- The system accelerates task completion
- The system increases employee productivity
- The system improves work quality
- The system supports the achievement of work targets

2.4.2 X2 (Independent Variable 2): Effort Expectancy (EE) Definition:

Effort Expectancy refers to the perceived ease of use of the digital system. Indicators:
- The system is easy to learn
- The system is clear and easy to use
- The system does not require excessive effort
- Interaction with the system is not confusing

2.4.3 Y (Mediating Variable): Behavioral Intention (BI) Definition:

Behavioral Intention refers to employees' intention to use the digital system in performing their work-related tasks.
Indicators:
- Intention to use the system
- Willingness to use the system frequently
- Motivation to integrate the system into routine work activities

2.4.4 Z (Dependent Variable): Use Behavior (UB) Definition:

Use Behavior refers to the actual use of the digital system by employees.
Indicators:
- Frequency of system usage
- Consistency of system usage
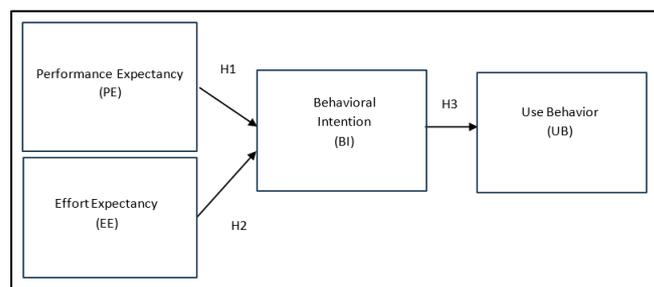- Utilization of the main features of the E-Procurement and E-Vendor Management System (E-VMS)

Figure 1.

2.5 Research Hypotheses

Based on the Unified Theory of Acceptance and Use of Technology (UTAUT) proposed by Venkatesh et al. (2003), the hypotheses formulated in this study are as follows:

H1: Performance Expectancy (PE) has a significant effect on Behavioral Intention (BI).

H2: Effort Expectancy (EE) has a significant effect on Behavioral Intention (BI).

H3: Behavioral Intention (BI) has a significant effect on Use Behavior (UB).

H4: Performance Expectancy (PE) has a significant effect on Use Behavior (UB) through Behavioral Intention (BI).

H5: Effort Expectancy (EE) has a significant effect on Use Behavior (UB) through Behavioral Intention (BI).

3. RESEARCH METHODS

3.1 Research Design

This study employs a quantitative research design to examine the relationships among variables within the Unified Theory of Acceptance and Use of Technology (UTAUT) framework in the context of digital transformation in logistics procurement at PT Energia Prima Nusantara. Data were collected through a structured questionnaire using a Likert scale, and the sample size was determined using the Slovin formula.

3.2 Research Location

The research was conducted at PT Energia Prima Nusantara, located at Jl. Rawagelam I Blok J No. 23, RT.10/RW.9, Jatinegara, Cakung District, East Jakarta, Special Capital Region of Jakarta, 13930. The organizational units involved in this study included all departments with authority and relevance to procurement and logistics activities.

3.3 Research Subject

The subjects of this study consisted of employees of PT Energia Prima Nusantara who are directly involved as prospective users of the E-Procurement and E-Vendor Management System (E-VMS). A total of 84 respondents participated in the study, and 100% of the respondents voluntarily agreed to complete the questionnaire.

3.3.1 Sampling Technique

The sampling technique employed in this study was purposive sampling. This method was chosen to ensure that data was collected from respondents who met specific criteria aligned with the research objective, namely assessing employee readiness for digital transformation.

3.3.2 Research Subject Criteria

To ensure data accuracy and relevance, the following criteria were applied:
• Permanent or contract employees working in relevant departments.
• Minimum tenure of one year, to ensure sufficient understanding of existing manual business processes.
• Willingness to participate as questionnaire respondents.
• Minimum educational background of Diploma 3 (D3)
• Inclusion of both male and female employees

3.3.3 Demographic Characteristics of Respondent

Based on the data collected, the demographic characteristics of the 84 respondents were summarized as follows:
• Gender: The majority of respondents were male, accounting for 75% (63 respondents), while female respondents constituted 25% (21 respondents).

- Length of Employment: All respondents had a minimum tenure of one year. Specifically, 47.6% (40 respondents) had worked for 1–3 years, while 52.4% (44 respondents) had more than three years of work experience.
- Departmental Distribution Respondents were drawn from departments directly related to procurement and logistics functions, with the following distribution.

  - Operation and Maintenance: 11.9% (10 respondents)
  - Information Technology (IT): 7.1% (6 respondents)
  - Business Development: 13.1% (11 respondents)
  - Project Management: 16.7% (14 respondents)
  - Health, Safety, and Environment (HSE): 6.0% (5 respondents)
  - Supply Management: 9.5% (8 respondents)
  - Engineering: 14.3% (12 respondents)
  - Human Capital and General Services (HCGS): 10.7% (9 respondents)
  - Legal: 2.4% (2 respondents)

3.4 Data Collection Technique

Data collection technique was conducted using a questionnaire survey with a five-point Likert scale (1–5). This approach enables the collection of quantitative data that can be processed using statistical methods.

Data was gathered through a structured closed-ended questionnaire, which was designed to measure respondents' perceptions, attitudes, and levels of agreement toward the constructs examined in the study.

The Likert scale used in this research is defined as follows:
- 1 = Strongly Disagree / Very Unready / Very Low
- 2 = Disagree / Unready / Low
- 3 = Neutral / Moderate / Average
- 4 = Agree / Ready / High
- 5 = Strongly Agree / Very Ready / Very High

The type of data utilized in this study is primary data, obtained directly from respondents' answers to the questionnaire.

3.5 Population and Sample

The population of this study consisted of 84 employees of PT Energia Prima Nusantara who are directly involved as prospective users of the E- Procurement and E-Vendor Management System (E-VMS). These employees are drawn from the following departments: Business Development, Engineering, Supply Management, Operation and Maintenance, Project Management, Safety, Health, and Environment (SHE), Human Capital and General Services, Legal, and Information Technology (IT). The sampling technique applied in this study is purposive sampling, whereby respondents are selected based on specific criteria relevant to the research objectives. This method ensures that data are collected exclusively from individuals who possess sufficient knowledge and involvement in procurement and logistics processes, thereby enhancing the relevance and accuracy of the findings.

3.6 Data Analysis Technique

The data analysis technique employed in this study is Structural Equation Modeling using the Partial Least Squares approach (SEM-PLS), conducted with SmartPLS version 4 software. SEM-PLS was selected because it is appropriate for studies with a relatively small sample size, a predictive research orientation, and models involving multiple latent variables with reflective

indicators. This approach has been widely applied in recent studies within the fields of operations management, information systems, and supply chain management (Permana et al., 2024; Fatma et al., 2024; Rahman et al., 2025; Hendra & Saputra, 2025).

The use of SEM-PLS is also recommended because it allows the analysis of causal relationships among latent constructs without requiring multivariate normality, and it is capable of modeling complex relationships based on perceptual constructs, such as those commonly examined in digital transformation and technology adoption research (Fatma et al., 2024; Rahman et al., 2025). Furthermore, SEM-PLS is frequently utilized in supply chain and quality management studies due to its ability to explain variance in endogenous variables (Permana et al., 2024).

3.7 Stages in SEM PLS-Analysis
3.7.1 Outer Model Evaluation
Conducted to assess indicator validity and reliability using factor loadings (>0.70), Average Variance Extracted (AVE >0.50), Cronbach's Alpha, and Composite Reliability (>0.70) (Hendra & Saputra, 2025).

3.7.2 Inner Model Evaluation
Performed to examine the relationships among constructs based on path coefficients, t-statistics and p-values obtained from bootstrapping, and R-square (R^2) values (Permana et al., 2024; Fatma et al., 2024).

3.7.3 Effect Size (f^2) and Predictive Relevance (Q^2)
Both used to evaluate the contribution and predictive capability of exogenous variables in the structural model (Permana et al., 2024).

3.7.4 Descriptive Statistical Analysis
Was conducted, including minimum, maximum, mean, and standard deviation values, to describe respondents' perceptions (Rahman et al., 2025).

3.7.5 Content Validity
Was assessed through expert judgment to ensure alignment between indicators and their respective constructs (Hendra & Saputra, 2025).

4. RESULTS AND DISCUSSION
4.1 Results of Measurement Model Evaluation (Outer Model)
The measurement model analysis was conducted to assess the relationships between latent constructs and their corresponding indicators, ensuring that each indicator adequately represents the construct it is intended to measure.

4.1.1 Convergent Validity
Convergent validity was evaluated by examining the factor loading values of each indicator. According to Permana et al. (2024), an indicator is considered valid if it has a loading factor greater than 0.70. Based on the results of data processing using SmartPLS 4, all indicators associated with the constructs Performance Expectancy (PE), Effort Expectancy (EE), Behavioral Intention (BI), and Use Behavior (UB) exhibited loading factor values exceeding 0.70. These findings indicate that all indicators meet the criteria for convergent validity and are therefore deemed appropriate for inclusion in the research model.
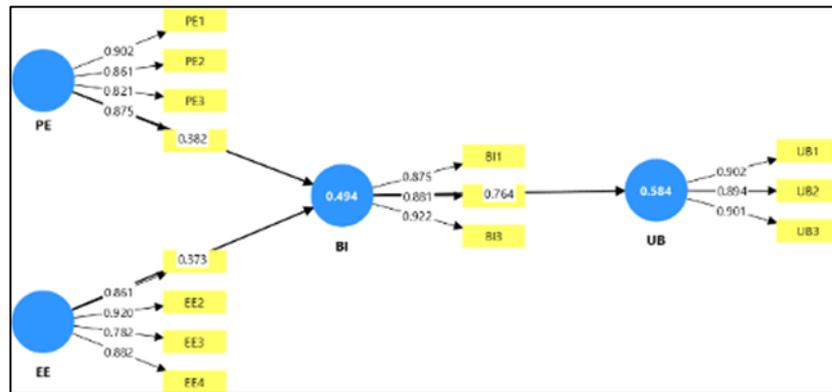
Figure 1. Measurement Model (Outer Model) with loading value factors in each indicator
Source: Author's Analysis, 2025

4.1.2 Construct Reliability

Construct reliability was assessed using two primary measures, namely Composite Reliability (CR) and Average Variance Extracted (AVE). According to Permana et al. (2024), a construct is considered reliable when it meets the threshold values of CR > 0.70 and AVE > 0.50. Based on the analysis results, all constructs in this study exhibit CR and AVE values exceeding the minimum recommended thresholds. These findings indicate that all constructs demonstrate adequate internal consistency and reliability and are therefore suitable for further structural model analysis.

4.2 Results of Structural Model Evaluation (Inner Model)

The structural model analysis was conducted to evaluate the relationships among latent constructs, based on the coefficient of determination (R^2) and the path coefficients. This analysis aims to assess the explanatory power of the model and to test the proposed research hypotheses.

4.2.1 Coefficient of Determination (R2)

The R-square (R^2) value indicates the extent to which an endogenous construct can be explained by its exogenous constructs. Based on the data processing results, the R^2 values obtained are presented in the following table:

Table 1. Coefficient of Determination

Endogenous Variable	R2	Interpretation
Behavioral Intention (BI)	0,494	Moderate model
Use Behavior (UB)	0,584	Strong model

Source: Author's Analysis, 2025

The results indicate that 49.4% of the variance in Behavioral Intention (BI) can be explained by Performance Expectancy (PE) and Effort Expectancy (EE). Meanwhile, 58.4% of the variance in Use Behavior (UB) is explained by Behavioral Intention (BI). These findings suggest that the proposed model demonstrates moderate to strong explanatory power, which is considered acceptable in behavioral and technology acceptance research using SEM-PLS.

4.2.2 Path Coefficient Analysis and Hypothesis Testing

The bootstrapping analysis was conducted to examine the relationships among latent

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variables. The results of the path coefficient estimation are presented in the following table :

Table 2. Path Coefficient Analysis

Relationship	Path Coefficient (β)	T-Statistic	Result
Performance Expectancy→ Behavioral Intention	0,382	2.605	Significant
Effort Expectancy→ Behavioral Intention	0,373	2.886	Significant
Behavioral Intention → Use Behavior	0.764	12.341	Significant

Source: Author's Analysis, 2025

The significance criteria applied in this study are T-statistic > 1.96 and p- value < 0.05. Based on these criteria, all hypothesized relationships are statistically significant.
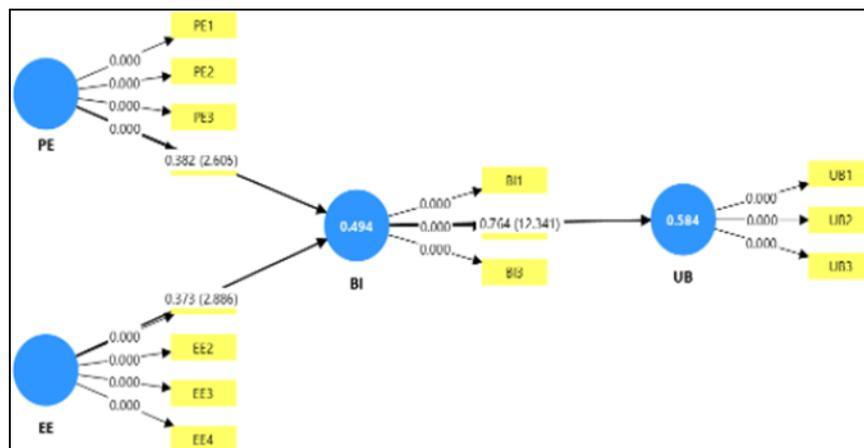

Figure 2. Result of Inner Model Analysis (Bootstrapping) between PE,EE,BI, dan UB construct.
Source: Primary data processed using PLS-SEM (SmartPLS), 2025

4.3 Discussion

The results of the SEM-PLS analysis indicate that all proposed hypotheses are supported, thereby confirming the applicability of the Unified Theory of Acceptance and Use of Technology (UTAUT) developed by Venkatesh et al. (2003) in explaining employee acceptance of digital transformation within the logistics procurement function.

4.3.1 The Effect of Performance Expectancy on Behavioral Intention

The hypothesis testing results demonstrate that Performance Expectancy (PE) has a positive and significant effect on Behavioral Intention (BI). This finding suggests that the stronger employees' beliefs that the E- Procurement and E-Vendor Management System (E-VMS) can accelerate task completion, reduce repetitive work, improve accuracy, and support timely job execution, the higher their intention to use the system. The relatively strong influence of PE can be attributed to the nature of the logistics procurement function, which is highly oriented toward speed, accuracy, and process efficiency. In the context of digital transformation readiness, employees tend to be more receptive to new systems when they perceive clear and direct performance benefits in their daily work activities. From a managerial perspective, these findings imply that increasing employees' intention to use digital procurement systems requires

organizations to ensure that E-Procurement and E-VMS deliver tangible benefits, such as reducing administrative duplication, minimizing errors, and accelerating procurement cycles. Overall, this result aligns with the core proposition of the UTAUT model (Venkatesh et al., 2003), which identifies Performance Expectancy as a primary determinant of technology adoption intention.

4.3.2 The Effect of Effort Expectancy on Behavioral Intention

The results also reveal that Effort Expectancy (EE) positively and significantly influences Behavioral Intention (BI). This indicates that the perceived ease of learning and using the E-Procurement and E-VMS plays an important role in shaping employees' intention to adopt the systems. However, when compared to Performance Expectancy, the effect of Effort Expectancy is relatively weaker. This may be explained by the fact that, in this study, the systems are still at the planning stage, meaning that respondents assessed ease of use based on conceptual understanding rather than actual hands-on experience.The influence of Effort Expectancy is likely to become more prominent during the implementation phase, when employees directly interact with the system. Therefore, to strengthen the role of EE in the future, the organization should prioritize user-friendly system design, clear socialization, and comprehensive training programs that are easily understood by employees across departments. Nevertheless, these findings remain consistent with the UTAUT framework, which emphasizes that perceived ease of use significantly affects technology adoption intention, particularly during the early stages of system introduction.

4.3.3 The Effect of Behavioral Intention on Use Behavior

The analysis shows that Behavioral Intention (BI) has the strongest influence on Use Behavior (UB) among all relationships examined in the model. This finding confirms that employees' intention is the primary determinant of actual system usage in the context of E-Procurement and E- VMS implementation. The magnitude of this relationship indicates that without a strong intention to use the system, actual usage is unlikely to occur, even when the system is technically available. This highlights the importance of psychological readiness and employee attitudes as critical success factors in digital transformation within logistics procurement. Practically, this finding suggests that organizations should prioritize strategies aimed at strengthening employees' behavioral intentions, such as fostering positive perceptions of system benefits, enhancing internal communication, and ensuring strong managerial support. This result is fully aligned with the UTAUT model (Venkatesh et al., 2003), which positions Behavioral Intention as the direct predictor of actual technology use.

4.3.4 The Mediating Role of Behavioral Intention

The results further indicate that Behavioral Intention (BI) serves as a mediating variable in the relationships between Performance Expectancy (PE) and Effort Expectancy (EE) on Use Behavior (UB). This finding implies that the effects of perceived usefulness and ease of use on actual system usage do not occur directly, but rather through the formation of employees' intention to use the system. In other words, even when the system is perceived as beneficial and easy to use, these perceptions alone are insufficient to drive actual usage without a strong behavioral intention. This reinforces the notion that Behavioral Intention is a central mechanism through which perceptions are translated into real usage behavior. These findings underscore that employee acceptance, particularly in terms of intention formation, is a key element of organizational readiness for digital transformation. Consequently, efforts to increase system usage should focus not only on technical system improvements but also on strategies that actively cultivate employees' intention to adopt and use digital procurement systems.

4.3.5 Implications of the Research Findings for the Research Objectives

This study aims to analyze employee readiness for digital transformation within the logistics procurement function. Based on the research findings, it can be concluded that employee readiness is strongly influenced by perceived system benefits (Performance Expectancy) and perceived ease of use (Effort Expectancy), which subsequently shape Behavioral Intention and ultimately lead to actual system usage (Use Behavior). Accordingly, the findings indicate that organizations should prioritize enhancing Performance Expectancy, as it demonstrates a relatively stronger influence than Effort Expectancy in forming employees' intention to use digital procurement systems. Strengthening employees' perceptions of system usefulness is therefore expected to foster sustained intention and consistent system usage.These results provide practical contributions for organizations in designing E-Procurement and E-Vendor Management System (E-VMS) implementation strategies that emphasize employee readiness as the primary users of digital systems. By focusing on benefit realization and user acceptance, organizations can improve the effectiveness and sustainability of digital transformation initiatives in logistics procurement.

CONCLUSION

Based on the results of data analysis using Structural Equation Modeling with the Partial Least Squares approach (SEM-PLS), several conclusions can be drawn as follows:

1. Performance Expectancy (PE) has a positive and significant effect on Behavioral Intention (BI).

This finding indicates that employees' beliefs regarding the benefits of the E-Procurement and E-Vendor Management System (E-VMS) such as the ability to accelerate task completion, reduce repetitive work, improve accuracy, and support timely job execution—play a crucial role in shaping their intention to use the system. These results suggest that perceived system usefulness is a primary determinant of employee readiness for digital transformation within the logistics procurement function.

2. Effort Expectancy (EE) positively influences Behavioral Intention (BI), although with a relatively lower effect compared to Performance Expectancy.

This condition can be attributed to the fact that the E-Procurement and E-VMS are still in the planning stage, causing respondents to evaluate ease of use conceptually rather than based on actual usage experience. Nevertheless, perceived ease of use remains an important factor in forming behavioral intention, particularly during the early stages of technology adoption.

3. Behavioral Intention (BI) has the strongest influence on Use Behavior (UB).

This finding demonstrates that employees' intention is the key driver of actual system usage. Without strong behavioral intention, the utilization of the E-Procurement and E-VMS is unlikely to occur optimally, even if the system is technically available. Therefore, psychological readiness and employee attitudes toward digital systems are critical elements for the successful implementation of digital transformation.

4. Behavioral Intention (BI acts as a mediating variable between Performance Expectancy and Effort Expectancy on Use Behavior.

This result indicates that the effects of perceived usefulness and ease of use on actual system usage do not occur directly but are transmitted through the formation of behavioral intention. Accordingly, efforts to increase system utilization should begin with strategies aimed at strengthening employees' intention to use the system.

Overall, this study concludes that employee readiness for digital transformation in the logistics procurement function is primarily influenced by perceived system benefits, which subsequently shape behavioral intention and drive actual system usage. These findings are consistent with the Unified Theory of Acceptance and Use of Technology (UTAUT) proposed by Venkatesh et al. (2003).

RECOMMENDATION

Based on the findings and conclusions of this study, the following recommendations are proposed :

1. Practical Recommendations

a. Organizations are advised to prioritize enhancing Performance Expectancy in the implementation of E-Procurement and E-VMS. This can be achieved by ensuring that the systems deliver tangible benefits, such as reducing redundant tasks, improving procurement process accuracy, and accelerating work completion. Strong perceptions of system usefulness will foster sustained behavioral intention among employees.

b. To strengthen the influence of Effort Expectancy, organizations should ensure that the systems are easy to understand and use. This can be accomplished through user-friendly system design, the development of clear user guidelines, and the provision of comprehensive training and socialization prior to full system implementation.

c. Organizations should focus on strengthening employees' Behavioral Intention as a top priority. This can be supported through effective internal communication, strong managerial support, and reinforcing the understanding that E-Procurement and E-VMS are integral components of the logistics procurement workflow.

2. Academic Recommendations

a. Future research is encouraged to incorporate additional variables from the UTAUT model, such as Social Influence and Facilitating Conditions, to obtain a more comprehensive understanding of factors influencing digital system adoption.

b. Subsequent studies may also be conducted during the post-implementation stage, allowing the effects of Effort Expectancy and Use Behavior to be examined based on actual system usage experience.

c. In addition, future research may employ a longitudinal approach to observe changes in behavioral intention and usage behavior over time.

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