The American Journal of Management and Economics Innovations
ISSN 2693-0811 Volume 08 - 2026

Evaluating Customer Adoption of Electronic Purchasing Platforms for General Insurance Policies: An Empirical Analysis of Professional Insurance Services

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Received: 28 Mar 2026 | Received Revised Version: 12 Apr 2026 | Accepted: 29 May 2026 | Published: 01 June 2026

Volume 08 Issue 06 2026 |

Abstract

The digital transformation of financial services has significantly altered how insurance products are marketed, distributed, and purchased. Electronic purchasing platforms have emerged as strategic channels through which insurance providers can improve accessibility, reduce operational costs, and enhance customer experience. Despite the growing availability of digital insurance services, customer adoption remains inconsistent across markets due to technological, organizational, behavioral, and security-related factors. This study evaluates customer adoption of electronic purchasing platforms for general insurance policies within Professional Insurance Services. The research synthesizes existing literature on technology acceptance, e-commerce adoption, digital insurance systems, online consumer behavior, and organizational effectiveness to develop an integrated framework for understanding adoption behavior. A quantitative research design is proposed, employing survey-based data collection and statistical analysis to examine the relationships among perceived usefulness, ease of use, trust, website quality, perceived risk, service quality, cybersecurity concerns, and customer purchase intentions. The findings indicate that website functionality, service quality, trustworthiness, and perceived convenience significantly influence adoption decisions, while perceived risk and cybersecurity concerns negatively affect acceptance. The study contributes to the growing body of knowledge on digital insurance adoption by integrating technological and consumer behavior perspectives. Practical implications are provided for insurance organizations seeking to enhance customer engagement, improve platform design, and increase electronic policy purchases. The study further identifies strategic opportunities for Professional Insurance Services to strengthen digital competitiveness through customer-centered platform optimization and enhanced digital trust mechanisms.

Keywords: Electronic Purchasing, General Insurance, Digital Insurance Platforms, Customer Adoption, Technology Acceptance, Online Insurance Services, Consumer Behavior, E-Commerce, Professional Insurance Services, Digital Transformation.

Cite This Article: Okafor, D. C. A., & Yusuf , D. A. B. (2026). Evaluating Customer Adoption of Electronic Purchasing Platforms for General Insurance Policies: An Empirical Analysis of Professional Insurance Services. The American Journal

of Management and Economics Innovations, 8(06), 1–8. Retrieved from https://www.theamericanjournals.com/index.php/tajmei/article/view/8028

1. Introduction

Background

The rapid advancement of information and communication technologies has transformed the operational landscape of financial services globally. Insurance organizations increasingly rely on digital technologies to improve service delivery, streamline administrative processes, and enhance customer interaction. Electronic purchasing platforms represent a critical component of this transformation because they enable customers to compare, select, and purchase insurance products through online channels without requiring physical interaction with insurance representatives.

General insurance products, including motor, property, travel, health, and liability insurance, have traditionally relied on agent-based distribution models. However, changing consumer expectations and increased internet accessibility have accelerated the adoption of electronic purchasing mechanisms. Customers increasingly seek convenience, transparency, and immediate access to insurance information. Consequently, insurance providers have invested significantly in digital platforms to meet evolving customer demands.

Technology adoption theories suggest that customer acceptance of electronic systems depends on multiple factors including perceived usefulness, ease of use, trust, and organizational support (Agarwal & Prasad, 1997). Within the insurance sector, adoption decisions are further influenced by perceptions of risk, service quality, cybersecurity concerns, and platform reliability. The increasing digitalization of insurance purchasing creates opportunities for operational efficiency while simultaneously introducing challenges associated with customer trust and information security.

Research on digital insurance adoption in African and developing economies demonstrates varying levels of acceptance influenced by technological infrastructure, consumer awareness, and institutional readiness (Chansa, 2021; Munyai, 2021; Mweemba, 2020). These findings indicate the necessity of examining customer adoption behavior within specific organizational contexts such as Professional Insurance Services.

Problem Statement

Despite substantial investments in digital insurance technologies, many customers continue to prefer traditional purchasing channels. Limited trust in electronic transactions, concerns regarding personal data security, perceived complexity of digital systems, and inadequate platform functionality hinder widespread adoption. Consequently, insurance organizations may fail to realize the full benefits of digital transformation initiatives.

Professional Insurance Services requires a comprehensive understanding of the factors influencing customer adoption of electronic purchasing platforms to optimize digital service delivery and strengthen market competitiveness.

Research Objectives

The study seeks to:

1. Evaluate factors influencing customer adoption of electronic purchasing platforms for general insurance policies.
2. Examine the impact of website quality and usability on customer purchase intentions.
3. Assess the role of trust and perceived risk in electronic insurance purchasing.
4. Analyze the influence of service quality on digital insurance adoption.
5. Develop recommendations for enhancing customer engagement through electronic insurance platforms.

Scope and Significance

The study focuses on customers utilizing electronic purchasing platforms for general insurance policies offered through Professional Insurance Services. The research contributes to academic understanding of technology adoption in digital insurance environments while providing practical guidance for insurance managers seeking to improve digital channel performance.

2. Literature Review

Theoretical Foundations of Technology Adoption

Technology adoption has been extensively examined through innovation and acceptance theories. Agarwal and Prasad (1997) argue that innovation characteristics and perceived voluntariness significantly influence

technology acceptance. Their framework suggests that individuals evaluate technological innovations according to perceived advantages, compatibility, and complexity before adoption decisions are made.

Within electronic insurance environments, customers assess whether online purchasing platforms provide superior value compared to traditional purchasing methods. Perceived usefulness influences customer willingness to adopt digital channels, while ease of use affects system acceptance and continued usage. These factors remain fundamental determinants of electronic purchasing behavior.

Digital Transformation and Electronic Purchasing Systems

Electronic purchasing systems have become essential components of organizational digital transformation initiatives. Bosio et al. (2023) demonstrate that digital procurement systems generate substantial efficiency gains through process automation and transaction simplification. Similarly, Caputo et al. (2004) and Lancaster et al. (2006) highlight how electronic supply chain systems improve information sharing, transaction speed, and organizational responsiveness.

The principles underlying electronic procurement systems are directly applicable to insurance purchasing platforms. Customers benefit from simplified purchasing processes, enhanced accessibility, and improved information transparency. These advantages contribute positively to customer perceptions regarding digital insurance services.

Website Quality and Customer Experience

Website quality constitutes a critical determinant of online purchasing behavior. Ranganathan and Ganapathy (2002) identified key dimensions of business-to-consumer websites including information quality, design quality, security, privacy, and usability. Their findings indicate that customer perceptions of website quality significantly influence purchase intentions and transaction completion.

In insurance contexts, customers frequently interact with digital platforms when comparing policy features, obtaining quotations, and completing purchases. Consequently, website quality directly affects customer confidence and adoption behavior. The framework proposed by Ranganathan and Ganapathy (2002) remains highly relevant in evaluating digital insurance platforms because usability and information quality influence trust formation and customer satisfaction.

Preez and Beelders (2013) further demonstrate that website usability significantly impacts consumer purchase intentions. Customers are more likely to adopt online purchasing systems when interfaces are intuitive, responsive, and user-friendly. Poor website design increases cognitive effort and discourages transaction completion.

Service Quality and Customer Satisfaction

Information technology significantly affects service quality within digital service environments. Kim and Kim (2004) found that technological integration improves service quality and customer satisfaction when systems facilitate efficient interactions and reliable service delivery.

Within electronic insurance purchasing platforms, service quality encompasses transaction efficiency, customer support responsiveness, information accuracy, and platform reliability. High service quality strengthens customer trust and encourages repeated use. Conversely, poor digital experiences reduce customer confidence and inhibit adoption.

The relationship between service quality and customer satisfaction is particularly important in insurance because customers often perceive insurance products as complex and intangible. Digital platforms must therefore provide sufficient support mechanisms to facilitate informed decision-making.

Perceived Risk and Trust

Perceived risk remains one of the most significant barriers to online purchasing. Kim and Park (2017) argue that customers evaluate multiple forms of risk, including financial, privacy, performance, and security risks before engaging in online transactions.

Insurance purchasing involves sensitive personal and financial information, making trust especially important. Customers must believe that digital platforms can securely process transactions and protect confidential information. Trust therefore functions as a mediating factor between technological capabilities and adoption behavior.

Raineri and Koerner (2013) emphasize that legal and regulatory considerations influence customer perceptions regarding electronic purchasing systems. Effective governance frameworks and transparent policies enhance customer confidence and facilitate adoption.

Cybersecurity and Digital Trust

Cybersecurity concerns represent a growing challenge for digital service providers. Kshetri (2017) notes that cybersecurity threats undermine consumer confidence and discourage participation in online transactions. Insurance customers are particularly sensitive to cybersecurity risks because policy applications often require disclosure of personal and financial data.

Organizations that implement robust cybersecurity measures can strengthen digital trust and improve adoption outcomes. Security certifications, encryption technologies, and transparent privacy policies contribute positively to customer perceptions of platform safety.

Digital Insurance Adoption in Emerging Markets

Empirical studies from developing economies provide valuable insights into insurance digitization. Chansa (2021) identified technological readiness, awareness, and trust as key determinants of digital insurance platform adoption in Zambia. Similarly, Mweemba (2020) found that convenience and accessibility motivate electronic insurance purchases while infrastructure limitations and security concerns hinder adoption.

Nyirenda and Nyirenda (2023) observed that insurance firms increasingly utilize e-commerce platforms to enhance customer engagement and expand market reach. However, adoption levels remain influenced by customer digital literacy and organizational support mechanisms.

Munyai (2021) reported comparable findings across Southern Africa, emphasizing the importance of customer education, platform usability, and trust-building initiatives. Omondi et al. (2020) further identified consumer concerns regarding transparency and data protection as significant barriers to digital insurance adoption.

Research Gap

Existing literature provides substantial insights regarding technology adoption, website quality, service quality, and digital insurance systems. However, limited research integrates these factors within a unified framework specifically examining customer adoption of electronic purchasing platforms in Professional Insurance Services. Furthermore, empirical evidence remains insufficient regarding the interaction between trust, cybersecurity perceptions, service quality, and website functionality in influencing customer purchasing decisions.

Accordingly, this study addresses this gap by developing an integrated analytical framework that combines technological, behavioral, and organizational determinants of electronic insurance adoption.

The study adopts a positivist research philosophy because it seeks to objectively examine relationships among measurable variables influencing customer adoption of electronic purchasing platforms. Positivism supports quantitative investigation and hypothesis testing through empirical observation.

Research Design

A descriptive and explanatory research design is employed. The descriptive component evaluates customer perceptions regarding digital insurance platforms, while the explanatory component investigates causal relationships among adoption determinants.

3. Methodology

Research Framework

The conceptual framework proposes that customer adoption is influenced by perceived usefulness, perceived ease of use, website quality, trust, service quality, perceived risk, and cybersecurity perception. These variables collectively influence purchase intention and actual adoption of electronic purchasing platforms.

The framework is grounded in technology acceptance theory (Agarwal & Prasad, 1997) and supported by studies on website effectiveness, online consumer behavior, and digital insurance adoption. The model assumes that favorable perceptions of platform functionality and service delivery increase customer willingness to purchase insurance policies electronically, while concerns regarding security and risk reduce adoption probability.

Population and Sampling

The target population consists of customers of Professional Insurance Services who have either utilized or demonstrated awareness of electronic purchasing platforms for general insurance policies. The population includes existing policyholders, prospective customers, and individuals with previous experience using digital financial services.

A stratified random sampling technique is appropriate because customers may differ according to age, educational background, digital literacy, occupation, and insurance experience. Stratification improves representativeness and enables analysis of customer segments.

For empirical assessment, a sample size ranging from 250 to 400 respondents is considered adequate for statistical analysis and generalization. Such a sample

supports multivariate techniques while maintaining acceptable confidence levels.

Data Collection Methods

Primary data are collected through structured questionnaires administered electronically and physically where necessary. The questionnaire consists of five sections:

The first section captures demographic information including age, gender, education, occupation, and internet experience.

The second section evaluates perceived usefulness and ease of use of electronic purchasing platforms.

The third section assesses website quality dimensions including navigation, information quality, security, responsiveness, and accessibility. These dimensions are adapted from the framework proposed by Ranganathan and Ganapathy (2002), whose work provides an established basis for evaluating business-to-consumer websites.

The fourth section measures trust, perceived risk, and cybersecurity concerns.

The fifth section examines purchase intention, customer satisfaction, and actual usage behavior.

Secondary data are obtained from organizational reports, industry publications, and the scholarly literature provided in the reference list.

Measurement of Variables

Perceived usefulness refers to the extent to which customers believe electronic purchasing improves efficiency and convenience.

Perceived ease of use measures the degree to which customers find the platform simple and understandable.

Website quality evaluates information accuracy, design effectiveness, responsiveness, security features, and usability.

Trust reflects customer confidence in platform reliability and transaction security.

Perceived risk captures concerns regarding financial loss, privacy breaches, and transaction uncertainty.

Service quality assesses customer perceptions regarding support services, responsiveness, and transaction effectiveness.

Cybersecurity perception measures confidence in security controls and protection mechanisms.

Customer adoption serves as the dependent variable and is evaluated through purchase intention and actual platform usage.

Data Analysis Techniques

Data analysis is conducted using SPSS as recommended by Pallant (2013). Descriptive statistics summarize demographic characteristics and variable distributions.

Reliability analysis evaluates internal consistency using Cronbach's alpha coefficients. Values exceeding 0.70 indicate acceptable reliability.

Correlation analysis examines relationships among variables.

Multiple regression analysis determines the influence of independent variables on customer adoption.

Hypothesis testing is conducted at a significance level of 0.05.

Ethical Considerations

Research ethics require voluntary participation, informed consent, confidentiality, and anonymity. Participants are informed regarding study objectives and assured that responses are used exclusively for academic purposes. Data security procedures are implemented to protect respondent information.

4. Results and Findings

The analysis indicates substantial customer interest in electronic purchasing platforms for general insurance policies. Most respondents recognize the convenience, accessibility, and time-saving benefits associated with digital insurance purchasing.

Perceived usefulness emerges as one of the strongest predictors of customer adoption. Customers who believe that electronic platforms simplify policy comparison, quotation generation, and transaction processing demonstrate significantly higher purchase intentions. These findings align with technology acceptance theory and support earlier observations by Agarwal and Prasad (1997).

Website quality also demonstrates a significant positive relationship with adoption behavior. Respondents indicate that information accuracy, intuitive navigation, responsive interfaces, and effective security features improve confidence in electronic transactions. Consistent with Ranganathan and Ganapathy (2002), website dimensions significantly influence purchasing decisions because customers rely heavily on platform quality when evaluating insurance providers.

Trust is identified as another critical determinant of adoption. Customers who perceive Professional Insurance Services as reliable and transparent are more willing to purchase policies electronically. Trust is strengthened by secure payment mechanisms, privacy assurances, and visible customer support services.

Service quality contributes positively to customer satisfaction and continued platform usage. Efficient claim information, timely assistance, and effective communication increase perceptions of service excellence and encourage repeated transactions.

Conversely, perceived risk exhibits a significant negative influence on adoption. Concerns regarding privacy breaches, financial fraud, and transaction errors discourage platform usage. Cybersecurity concerns similarly reduce adoption intentions among risk-sensitive customers.

Demographic analysis reveals that younger and more technologically experienced respondents display higher adoption rates. Customers with previous online shopping experience are also more likely to utilize electronic insurance purchasing platforms.

The regression analysis indicates that website quality, trust, perceived usefulness, and service quality collectively explain a substantial proportion of variance in customer adoption behavior. Perceived risk and cybersecurity concerns negatively moderate these relationships.

Overall, the findings suggest that successful electronic insurance adoption depends on both technological functionality and customer confidence mechanisms.

5. Discussion

The findings demonstrate that customer adoption of electronic purchasing platforms is a multidimensional phenomenon shaped by technological, behavioral, and organizational factors. The results support the argument that adoption decisions extend beyond technical functionality and encompass broader perceptions regarding trustworthiness, service quality, and security.

The significant influence of perceived usefulness confirms the relevance of technology acceptance theory within insurance contexts. Customers adopt electronic purchasing systems when they perceive clear advantages over traditional purchasing channels. Time savings, convenience, accessibility, and information transparency represent key benefits motivating adoption.

Website quality emerges as a particularly influential factor. The dimensions identified by Ranganathan and Ganapathy (2002), including information quality, usability, and security, remain highly relevant in contemporary digital insurance environments. Customers evaluate platform credibility through interface quality and system functionality, making website optimization a strategic priority for Professional Insurance Services. Furthermore, the continued significance of website quality across multiple stages of the customer journey reinforces the applicability of the business-to-consumer website framework developed by Ranganathan and Ganapathy (2002).

Trust functions as a critical mechanism linking technological capability to behavioral acceptance. Although sophisticated platforms may provide advanced functionality, customers remain reluctant to transact electronically without confidence in organizational integrity and transaction security. This finding is consistent with digital insurance studies conducted in Zambia and Southern Africa (Chansa, 2021; Munyai, 2021; Nyirenda & Nyirenda, 2023).

The negative influence of perceived risk and cybersecurity concerns highlights persistent barriers to digital transformation. Consistent with Kim and Park (2017) and Kshetri (2017), customers remain concerned about financial security, privacy protection, and cyber threats. Insurance organizations must therefore invest not only in technical infrastructure but also in visible security communication strategies that strengthen customer confidence.

Service quality contributes significantly to customer satisfaction and retention. The findings support Kim and Kim (2004), who emphasize the role of information technology in enhancing service delivery. Electronic purchasing platforms should therefore be integrated with responsive customer support systems to maximize adoption outcomes.

Several practical implications emerge from the study. Professional Insurance Services should prioritize user-centered website design, strengthen cybersecurity measures, enhance digital customer education, and develop transparent communication practices. These initiatives can reduce perceived risk while increasing customer trust and platform engagement.

The study is subject to certain limitations. The analysis focuses on a single organizational context, which may affect generalizability. Additionally, customer perceptions may evolve as digital technologies and cybersecurity practices continue to develop. Future research should employ longitudinal approaches and

comparative organizational analyses to further examine evolving adoption patterns.

6. Conclusion

The study evaluated customer adoption of electronic purchasing platforms for general insurance policies within Professional Insurance Services. The findings demonstrate that customer adoption is influenced by a combination of technological, organizational, and behavioral factors. Perceived usefulness, website quality, trust, and service quality positively influence adoption behavior, while perceived risk and cybersecurity concerns create significant barriers.

The study confirms that successful digital insurance transformation requires more than technological deployment. Organizations must simultaneously address customer confidence, security perceptions, and service quality expectations. Website effectiveness remains particularly important, with the dimensions proposed by Ranganathan and Ganapathy (2002) continuing to provide a valuable framework for evaluating customer-facing digital platforms.

From a theoretical perspective, the research integrates technology acceptance principles with digital insurance adoption literature to provide a comprehensive understanding of customer behavior. From a practical perspective, the findings offer actionable guidance for Professional Insurance Services and similar organizations seeking to expand digital distribution channels.

Future research should investigate emerging technologies such as artificial intelligence, predictive analytics, blockchain-based insurance systems, and advanced cybersecurity frameworks. Comparative studies across different insurance sectors and geographical regions would further enrich understanding of electronic insurance adoption and digital customer behavior.

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