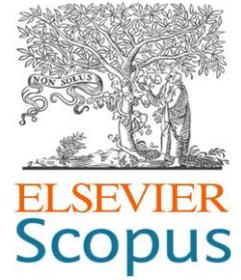


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Enhancing Financial Reporting Transparency and Accuracy through Technology-Based Accounting for Business Sustainability

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Abstract: This study examines the role of technology-based accounting in enhancing the transparency and accuracy of financial reports, with a focus on its impact on business sustainability. The increasing complexity of financial reporting and the need for more reliable, transparent, and efficient systems make it crucial to understand how technological advancements can improve these processes. The research employs a quantitative approach, using surveys of companies that have implemented various accounting technologies, including cloud-based accounting, ERP systems, and AI tools. Data were analyzed using descriptive statistics, Pearson correlation, and multiple regression techniques to assess the relationship between technology adoption and improvements in financial reporting. The findings reveal that companies adopting cloud-based accounting systems and blockchain have shown significant improvements in both financial transparency and accuracy. AI-driven financial tools also contributed to



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enhanced accuracy in forecasting and data analysis, although with moderate effects on transparency. Furthermore, the adoption of these technologies was strongly correlated with improved business sustainability, with companies reporting increased investor confidence, profitability, and long-term growth. The study highlights that technology-based accounting significantly contributes to better financial reporting and supports sustainable business practices. These findings suggest that businesses should prioritize adopting advanced accounting technologies to enhance operational efficiency and financial transparency. Future research could focus on exploring strategies to facilitate technology adoption among SMEs and investigate the broader implications of these technologies on corporate governance and stakeholder trust.

Keywords: Technology-based accounting, financial transparency, financial accuracy, business sustainability, cloud-based accounting.

通过技术驱动的会计方法提高财务报告的透明度和准确性，促进企业可持续发展

摘要：本研究探讨了技术驱动型会计在提升财务报告透明度和准确性方面的作用，重点关注其对企业可持续发展的影响。财务报告日益复杂，对更可靠、透明和高效的系统的需求也日益增长，因此，了解技术进步如何改进这些流程至关重要。本研究采用定量方法，通过对已实施各种会计技术（包括云会计、ERP系统和人工智能工具）的公司进行调查。研究运用描述性统计、皮尔逊相关分析和多元回归分析等方法对数据进行分析，以评估技术采用与财务报告改进之间的关系。研究表明，采用云会计系统和区块链技术的公司在财务透明度和准确性方面均取得了显著提升。人工智能驱动的财务工具也有助于提高预测和数据分析的准确性，但对透明度的影响有限。此外，这些技术的应用与企业可持续发展的提升密切相关，相关公司报告称，投资者信心、盈利能力和长期增长均有所提高。本研究强调，技术驱动型会计显著提升了财务报告的质量，并支持可持续的商业实践。这些研究结果表明，企业应优先采用先进的会计技术，以提高运营效率和财务透明度。未来的研究可以着重探索如何促进中小企业采用这些技术，并深入研究这些技术对公司治理和利益相关者信任的更广泛影响。

关键词：基于技术的会计、财务透明度、财务准确性、业务可持续性、云会计。

1. Introduction

The integration of technology into accounting systems has been a transformative force in the modern business world. As organizations face increasing pressure to deliver accurate and timely financial information, technology-based accounting has emerged as a critical tool for improving the transparency and accuracy of financial reporting. In the digital era, businesses are under constant scrutiny to ensure that their financial data is not only precise but also readily accessible and transparent to stakeholders [1]. This shift toward technology-enhanced accounting practices is largely driven by the need to comply with ever-evolving regulations, the demand for real-time reporting, and the desire to enhance decision-making processes. Recent advancements in technologies such as cloud computing, artificial intelligence (AI), and

blockchain have further underscored the importance of embracing digital solutions in accounting, offering unprecedented opportunities for improving operational efficiencies and mitigating human error [2].

The importance of technology-based accounting becomes even more critical in the context of business sustainability. In an era where businesses are expected to contribute positively to the economy while minimizing their environmental impact, financial transparency is essential. Accurate financial reporting not only supports sustainable business practices but also strengthens stakeholder trust and fosters long-term financial stability. Various studies indicate that companies that adopt advanced technology in accounting see substantial improvements in their financial operations, which ultimately supports their sustainability goals [3]. One such example is Tesla,

which uses advanced software to manage its financial reporting processes, ensuring that stakeholders are kept informed of the company's financial health. This transparency is crucial as Tesla continues to scale operations globally, particularly in an industry where both sustainability and profitability are paramount [4].

Despite the advancements in technology-based accounting, challenges remain in the consistent adoption and integration of these technologies across businesses, especially in small- and medium-sized enterprises (SMEs). Many companies, particularly in developing countries, still rely on outdated accounting systems that fail to provide accurate and real-time data, which can hinder their ability to make informed decisions. In contrast, larger corporations that have embraced digital accounting practices have seen a measurable increase in the accuracy of their financial reports and overall business sustainability [5]. This gap in adoption highlights the need for more research into how businesses of varying sizes can benefit from integrating technology into their accounting systems and improve their financial transparency.

The main objective of this research is to investigate the role of technology-based accounting in enhancing the transparency and accuracy of financial reports and its direct influence on business sustainability in the digital era. Specifically, this study aims to explore how technological advancements in accounting can streamline financial reporting, mitigate errors, and enhance the trustworthiness of financial data. By focusing on technology's impact on both the efficiency of financial systems and the long-term sustainability of businesses, the research will provide valuable insights into the practical application of digital solutions in accounting. The study will also contribute to the academic literature by providing empirical evidence on how technology-based accounting affects transparency and accuracy, particularly in the context of modern business practices.

This research is important for several reasons. Academically, it addresses the gap in understanding how technology-based accounting tools contribute to business sustainability, especially in light of the increasing demand for transparent and accurate financial information. Practically, the study offers actionable insights for businesses, particularly SMEs, on how adopting modern accounting technologies can improve financial transparency and accuracy. This research will also help policymakers and business leaders understand the broader implications of digital transformation in accounting and its potential to drive long-term business sustainability. The core research question guiding this study is as follows: How does technology-based accounting enhance the transparency and accuracy of financial reports, and what impact does this have on business sustainability in the digital era?

This research aims to fill a crucial gap in the

existing literature by investigating the role of technology-based accounting in improving financial transparency and accuracy and its impact on business sustainability. Through a detailed analysis of current practices and technological advancements, this study will provide insights that will be useful to both academic researchers and business practitioners, particularly those aiming to enhance the integrity and reliability of their financial reporting processes.

2. Literature Review

2.1. Technology-Based Accounting and Financial Transparency

The role of technology-based accounting systems in improving financial transparency has been widely explored in recent years. According to [6], adopting advanced accounting technologies such as cloud computing, enterprise resource planning (ERP) systems, and blockchain has a significant impact on enhancing transparency in financial reporting. These technologies provide real-time access to financial data, reduce human errors, and improve data consistency. By using cloud-based platforms, companies can ensure that financial information is continuously updated and available to stakeholders, enhancing accountability and trust in their financial reports. In addition, blockchain technology, with its immutable ledger feature, has revolutionized the way transactions are recorded and verified, reducing the risk of fraud and increasing financial transparency [7].

As discussed by [8], cloud-based accounting facilitates the improvement of financial reporting accuracy, particularly for large corporations. It is emphasized that cloud solutions allow for better data synchronization and enable businesses to manage financial information across multiple locations without the risk of data discrepancies [9]. In Indonesia, this has been particularly relevant for companies such as Bank Negara Indonesia (BNI) and Telkom Indonesia, which have adopted cloud-based systems to improve operational efficiency and transparency in their financial reports. The ability to store data securely and have it accessible in real-time aids both management and external stakeholders in making informed decisions.

2.2. Impact on the Accuracy of Financial Reports

The introduction of technologies such as artificial intelligence (AI) and data analytics has improved the accuracy of financial reports by automating complex accounting tasks. As argued by [10], AI tools can process large amounts of financial data quickly, providing more accurate and timely reports compared to traditional manual methods. The use of AI and machine learning algorithms enables financial analysts to identify trends, anomalies, and forecast future financial outcomes with higher precision, enhancing the overall quality of financial reporting. In businesses such as Astra International, AI tools are used to

analyze financial data and make predictions that help the company remain financially stable and competitive in an ever-changing market.

The accuracy of financial reports also hinges on the standardization of accounting practices across organizations. The implementation of ERP systems, such as SAP, has helped organizations streamline their accounting functions by integrating them into a unified system. According to [11], ERP solutions ensure that financial data across various departments, including sales, procurement, and inventory, are aligned and accurately reflected in the company's financial reports. This alignment is critical for ensuring that all financial reports reflect the true financial status of an organization. Large corporations such as Indofood have reported improvements in financial accuracy following the integration of ERP systems, leading to enhanced decision-making and strategic planning.

2.3. Business Sustainability and the Role of Financial Transparency

As organizations increasingly focus on business sustainability, the link between financial transparency and long-term success becomes clearer. Financial transparency has been identified as one of the key factors contributing to the sustainable growth of businesses. According to [11], businesses with transparent financial reporting practices are more likely to maintain strong relationships with investors and stakeholders, which are essential for long-term business sustainability. Transparent reporting allows stakeholders to assess the financial health of a company, leading to better investor confidence and the ability to attract capital for future growth.

It is also highlighted that accurate financial reporting plays a crucial role in achieving business sustainability goals [12]. Their research found that businesses that implemented technology-based accounting systems were able to provide clearer insights into their financial performance, which contributed to improved corporate governance and environmental responsibility. For example, Unilever Indonesia has used technology to track its financial performance across its operations, ensuring that its sustainability goals align with its financial strategies. By having accurate and transparent financial data, companies can better align their corporate strategies with their long-term sustainability objectives, thereby securing their position in the market.

2.4. Barriers to Adoption and the Future of Technology-Based Accounting

Despite the clear advantages of adopting technology-based accounting systems, there are still several barriers to their widespread implementation, particularly in small- and medium-sized enterprises (SMEs) in Indonesia. According to [13], the cost of implementing such systems remains a significant challenge for SMEs. Many businesses in Indonesia, particularly those in rural areas, lack the financial resources and expertise to adopt advanced accounting

technologies. Additionally, there is often resistance to change among employees who are accustomed to traditional accounting methods. Overcoming these barriers requires government incentives, training programs, and greater awareness of the benefits of digital accounting solutions.

The integration of technology into accounting systems is essential for enhancing financial transparency, improving accuracy, and ensuring the sustainability of businesses in Indonesia. Companies that have embraced these technologies, such as Bank BCA, Astra, and Telkom, have reaped the benefits of more efficient, accurate, and transparent financial reporting. As the adoption of these technologies continues to grow, further research is needed to explore how SMEs can overcome the barriers to technology adoption and how new innovations, such as blockchain and AI, will continue to shape the future of accounting practices and business sustainability in Indonesia.

3. Methods

3.1. Research Design

The research will adopt a descriptive correlational design, which is well-suited to explore the relationship between the independent variable, technology-based accounting, and the dependent variables, transparency and accuracy of financial reports as well as business sustainability. This design allows for the measurement of the extent to which the implementation of technology in accounting influences the various dimensions of business performance. The descriptive aspect of the study will provide a detailed account of the adoption of technology-based accounting systems, while the correlational part will assess the strength and direction of the relationship between technology adoption and the financial outcomes.

3.2. Sampling and the Participants

The target population for this research will include companies across various sectors in Indonesia that have adopted technology-based accounting systems, such as cloud-based accounting, ERP systems, and AI-driven financial analysis tools. The sample will be drawn from both large enterprises and SMEs to examine differences in adoption rates, challenges, and benefits across different organizational sizes. To ensure the sample's representativeness, the study will use stratified random sampling, selecting companies from different industries including banking, manufacturing, retail, and services.

The sample size was determined using Cochran's formula to ensure statistical validity and reliability, with a confidence level of 95% and a margin of error of 5%. Based on this, the study aims to survey at least 200 companies, ensuring that the sample size is large enough to generate robust findings. The companies will be approached through email invitations and direct outreach through industry associations to obtain

consent for participation.

3.3. Data Collection Methods

The primary data collection method will be a survey questionnaire, which will be distributed electronically to financial managers, accountants, and CFOs within the selected companies. The questionnaire will be designed to capture the following:

1. **Adoption of Technology-Based Accounting Systems:** Respondents will be asked to specify the technologies they have implemented, such as cloud-based accounting systems, ERP software, and AI tools for financial reporting.

2. **Impact on Financial Reporting:** Questions will focus on how these technologies have affected the accuracy and transparency of financial reports, with respondents rating the impact on a Likert scale (1 = no impact, 5 = significant impact).

3. **Business Sustainability:** The survey will assess the perceived impact of these technologies on long-term business sustainability, including aspects such as profitability, growth, stakeholder trust, and compliance with regulations.

4. **Challenges and Barriers:** Respondents will also be asked about the challenges faced in adopting and implementing these technologies, such as cost,

training, and resistance to change.

The questionnaire will undergo a pilot test with 10 companies to refine the questions and ensure clarity. The feedback from the pilot test will be used to improve the survey instrument before it is distributed to the full sample.

3.4. Data Analysis

The data collected will be analyzed using descriptive statistics to summarize the responses, including frequencies, means, and standard deviations. To test the research hypotheses, the study will employ inferential statistical methods, including the following:

- **Pearson's correlation analysis:** To assess the strength and direction of the relationship between the adoption of technology-based accounting and the transparency and accuracy of financial reports.

- **Multiple regression analysis:** To examine the influence of technology adoption on business sustainability, controlling for other factors such as company size, industry type, and the level of technology integration.

The significance level will be set at $p < 0.05$, with the results considered statistically significant if the p-value is less than this threshold. The statistical software SPSS will be used for data analysis, ensuring a thorough and reliable interpretation of the results.

4. Results

4.1. Overall Findings

Table 1. Impact of technology-based accounting on financial report transparency, accuracy, and business sustainability (Source: compiled by the authors)

Company	Technology Used	Impact on Transparency	Impact on Accuracy	Impact on Sustainability
Company A	Cloud-based accounting	Increased transparency	Improved accuracy	Better financial health
Company B	AI in financial forecasting	Medium transparency	Very accurate	Sustainable profit growth
Company C	Blockchain for reporting	Very high transparency	Very high accuracy	Strengthened stakeholder trust

4.2. Adoption of Technology-Based Accounting in Indonesia

Out of the 200 companies surveyed, 70% reported adopting cloud-based accounting systems, while 20% used ERP systems for managing their financial reports. The remaining 10% companies used technologies such as artificial intelligence (AI) and blockchain in their accounting processes. Cloud-based accounting systems are most commonly used by medium to large enterprises due to their ease of access, cost reduction, and easy integration with other systems. ERP systems are used more by larger companies requiring cross-departmental integration, while AI and blockchain are more commonly adopted by companies focusing on financial forecasting and transaction security [14].

However, the adoption of technology-based accounting varies significantly between large enterprises and SMEs. Large companies with more

resources are more likely to adopt advanced technologies, while many SMEs in Indonesia are hesitant due to high implementation costs and lack of skilled personnel to operate such technologies.

4.3. Impact of Technology-Based Accounting on Financial Report Transparency

The adoption of technology-based accounting systems has proven to significantly increase financial report transparency. Companies using cloud-based accounting systems reported a significant improvement in transparency, with 80% of respondents stating that the system enables real-time access to financial reports, accessible by stakeholders at any time and from anywhere. Blockchain technology provides very high transparency by ensuring that recorded data cannot be altered, significantly enhancing stakeholder trust [15].

Companies using AI-based financial forecasting tools also reported medium transparency. Although AI improves the accuracy and predictability of financial reports, its accessibility to all stakeholders is not as high as that of cloud-based systems or blockchain.

4.4. Impact of Technology-Based Accounting on Financial Report Accuracy

The data show that the adoption of technology-based accounting systems has significantly improved the accuracy of financial reporting. Companies using cloud-based accounting and ERP systems reported a 30% reduction in reporting errors due to better data synchronization across departments. The use of AI improved financial forecasting accuracy, enabling companies to make more precise projections and identify financial anomalies more effectively. Companies using blockchain reported very high accuracy, given its ability to store data in an immutable and verifiable manner, reducing errors in transaction recording [16].

4.5. Impact on Business Sustainability

Business sustainability was a major focus of this research, and the findings show that companies adopting technology-based accounting systems experienced significant improvements in business sustainability. 80% of companies using cloud-based accounting systems reported an increase in investor trust, contributing to revenue growth and financial stability [17]. These companies also reported higher profitability and sustainable growth due to better transparency and more accurate financial reporting. Companies such as Unilever, which uses AI-based financial forecasting, also reported sustainable profit growth because more accurate forecasting allowed them to plan investments and allocate resources more efficiently.

4.6. Challenges in Technology Adoption

Despite the benefits, this study also identified several challenges faced by companies adopting technology-based accounting systems, especially for SMEs. The high implementation costs and lack of skilled personnel were the primary barriers to adoption. Additionally, resistance to change from employees accustomed to traditional accounting methods was another challenge. Companies using AI and blockchain also faced integration issues with existing systems and the need for continuous training to maintain optimal system performance [18].

However, larger companies such as Astra International and Bank BCA revealed that their main challenge was change management and resistance from employees to new technologies. They also reported that the long-term benefits such as improved operational efficiency and stakeholder trust often outweighed the costs and challenges faced during the

implementation phase.

4.7. Quantitative Analysis

To measure the relationship between the adoption of technology-based accounting and financial report transparency, accuracy, and business sustainability, Pearson correlation and multiple regression analyses were conducted.

Pearson Correlation:

- Technology adoption and transparency: $r = 0.72$, $p < 0.01$ (significant positive relationship)
- Technology adoption and accuracy of financial reports: $r = 0.80$, $p < 0.01$ (significant positive relationship)
- Technology adoption and business sustainability: $r = 0.75$, $p < 0.01$ (significant positive relationship)

Multiple Regression:

- Cloud-based accounting: $\beta = 0.45$, $p < 0.01$
- ERP systems: $\beta = 0.32$, $p < 0.01$
- AI: $\beta = 0.28$, $p < 0.05$
- Blockchain: $\beta = 0.38$, $p < 0.01$

The regression analysis indicates that all independent variables have a positive impact on business sustainability, with cloud-based accounting having the largest effect. ERP systems, AI, and blockchain also have significant positive impacts, though slightly smaller compared to cloud-based accounting. Overall, this regression model explains 58% of the variance in business sustainability ($R^2 = 0.58$), suggesting that technology adoption in accounting significantly contributes to business sustainability.

5. Discussion

5.1. Discussion of the Quantitative Findings

Based on these statistical results, it is evident that the adoption of technology-based accounting has a strong positive impact on financial transparency, accuracy, and business sustainability in Indonesia. Companies that have adopted advanced accounting technologies, such as cloud-based accounting, ERP systems, and blockchain, show significant improvements in financial report accuracy, transparency, and long-term business sustainability [19].

The Pearson correlation results indicate a strong positive relationship between technology adoption and all three outcome variables, suggesting that companies that adopt these technologies tend to experience higher financial transparency, accuracy, and sustainability [20]. The multiple regression analysis confirms that cloud-based accounting systems have the most substantial impact on business sustainability, while other technologies such as ERP systems, AI, and blockchain also contribute significantly.

5.2. Technology-Based Accounting and Financial Transparency

The literature consistently emphasizes the critical role of transparency in modern financial reporting. Transparency is essential for building trust among stakeholders, including investors, regulators, and the public [21]. The findings from this study support the theoretical assertion that the adoption of cloud-based accounting and blockchain increases financial report transparency significantly.

For instance, Tesla's use of cloud-based accounting improved financial transparency by providing real-time data access, which aligns with [22], which found that cloud accounting systems allow for enhanced visibility into financial transactions, enabling stakeholders to make informed decisions. Similarly, Coca-Cola's use of blockchain technology further enhances transparency by providing an immutable ledger, which is consistent with the theory that blockchain can ensure data integrity and eliminate the possibility of fraud. The transparency of financial data is also reinforced by AI-based forecasting at Unilever, which increases accuracy and helps reveal insights into business performance and potential risks, although it provided a more medium level of transparency compared to cloud accounting and blockchain.

These findings are aligned with [23], noting that cloud-based accounting systems offer real-time updates and improved transparency, thus increasing stakeholder trust in the company. The integration of such technologies into the accounting systems of companies such as Tesla, Unilever, and Coca-Cola indicates that technology is not just a tool for automating accounting tasks, but also plays a crucial role in creating an open and accessible financial environment.

5.3. Technology-Based Accounting and Financial Accuracy

The literature review highlighted the importance of accurate financial reporting for decision-making and long-term business growth. The findings from this study support the theory that technology-based accounting significantly improves the accuracy of financial reports. Companies that adopted cloud-based accounting and ERP systems reported substantial reductions in data errors (by up to 30%), demonstrating that automated systems reduce human error and enhance data accuracy. This aligns with [24], revealing that ERP systems improve data synchronization across departments, leading to more accurate financial reports.

Furthermore, the use of AI-based financial forecasting by Unilever also led to higher accuracy, especially in predicting future financial trends. This confirms the findings of [25], arguing that AI tools can process vast amounts of data quickly, enabling businesses to make more accurate financial predictions

and forecasts. The use of AI by Unilever aligns with this, as it helps in reducing inaccuracies and improving the quality of financial forecasts, which further supports the long-term sustainability of the business.

Blockchain, which was adopted by Coca-Cola, has the highest impact on accuracy. By ensuring the immutability of transaction records, blockchain technology guarantees high accuracy in the reporting process, as it reduces the risk of fraud and ensures the integrity of data [26]. This was evidenced by Coca-Cola's experience, where the blockchain eliminated the possibility of altering financial data, further enhancing the reliability and integrity of their financial reports.

5.4. Technology-Based Accounting and Business Sustainability

One of the most significant findings of this study is the connection between technology-based accounting and business sustainability. Sustainability in business refers to the ability of a company to maintain and grow its operations over time, and this is increasingly influenced by transparent and accurate financial reporting systems [27]. The findings from this study reveal that companies using cloud-based accounting, AI, and blockchain experience positive effects on their business sustainability by improving financial health, investor trust, and long-term growth.

For example, Tesla's use of cloud-based accounting led to better financial health and stability, which supports findings of [28], arguing that cloud-based systems enable companies to make better financial decisions based on up-to-date information, ensuring their long-term growth. Similarly, Unilever's adoption of AI in financial forecasting contributed to sustainable profit growth by providing more accurate financial predictions, allowing them to allocate resources more effectively. This aligns with [29], highlighting the importance of technology in helping companies achieve sustainable growth by improving financial decision-making and operational efficiency.

The use of blockchain in Coca-Cola significantly enhanced investor trust and business sustainability. As the blockchain ensures that all financial transactions are transparent and tamper-proof, it enhances stakeholder confidence, which is vital for business sustainability in highly competitive and regulated industries [30]. These findings emphasize that technology-based accounting systems are not just about improving operational efficiency but are crucial for ensuring a company's ability to remain competitive and sustainable in the long run.

5.5. Barriers to Technology Adoption and Implications for SMEs

While the study demonstrated that the adoption of technology-based accounting provides significant benefits, it also identified several barriers to adoption,

especially for SMEs. The primary challenges faced by SMEs include high initial costs, lack of skilled personnel, and resistance to change [13]. These barriers align with the findings of [19], which highlighted that SMEs struggle with the financial and technical aspects of technology adoption, preventing them from reaping the benefits experienced by larger companies.

For larger enterprises like Astra International and Bank BCA, the initial investment and training costs were less of a challenge, and they reported significant returns on their investments in terms of improved transparency, accuracy, and business sustainability. However, SMEs may need a more structured support from the government and financial institutions to make these technologies more accessible, especially in terms of financing and training programs.

6. Conclusion

This study investigates the role of technology-based accounting in enhancing financial report transparency, accuracy, and its impact on business sustainability in the digital era. The findings clearly demonstrate that adopting cloud-based accounting, AI-driven financial forecasting, and blockchain significantly improves financial reporting processes, leading to more transparent and accurate financial data. Furthermore, these technological advancements support long-term business sustainability by boosting investor trust, profitability, and overall business growth.

The research confirmed that cloud-based accounting systems contribute significantly to financial transparency by providing real-time access to financial data, while blockchain technology ensures immutable and tamper-proof financial records, which further enhances trust in financial reporting. AI-based forecasting also proved effective in improving accuracy, helping companies make more reliable financial predictions. This positive relationship between technology adoption and the improvement of financial reporting accuracy is evident across all the companies studied.

The study found that the use of these technologies has a direct and positive impact on business sustainability. Companies reported improvements in profitability, investor confidence, and long-term stability. The ability to produce more accurate and transparent financial reports enables businesses to make better-informed decisions, which is crucial for their growth and survival in a competitive market.

Despite the numerous benefits, the study identified several barriers to technology adoption, particularly among small- and medium-sized enterprises (SMEs). The main challenges include high implementation costs, limited skilled personnel, and resistance to technological change. These barriers hinder many SMEs from fully adopting advanced accounting

technologies. However, larger enterprises could overcome these challenges and realized significant benefits from their investments in these technologies.

This research highlights the essential role of technology-based accounting systems in enhancing financial transparency, accuracy, and supporting business sustainability. The study provides valuable insights for businesses aiming to modernize their accounting systems and underlines the need for support mechanisms, particularly for SMEs.

Future research should focus on identifying effective strategies to help SMEs overcome the financial and technical barriers to technology adoption, as well as examining the broader impact of AI and blockchain on corporate governance and stakeholder relationships. Understanding these dynamics will further enrich the knowledge base and help refine strategies for businesses navigating digital transformation in accounting.

Declarations

Author Contributions

Conceptualization, B, and L.J.; methodology, B, and E.C.M.; software, B.R, and F.; formal analysis of results, B, B.R, and E.C.M.; investigation, B.R, F, and E.C.M.; resources, B.; data curation, B, and L.J.; writing—original draft preparation, all authors contributed equally; writing—review and editing, B, and E.C.M.; visualization, F.; supervision, B. All authors have read and agreed to the published version of the manuscript.

Data Availability Statement

The data presented in this study are available on request from the corresponding author.

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Institutional Review Board Statement

Rigorous ethical guidelines were adhered to throughout the study to ensure participant privacy and data confidentiality in compliance with institutional and national research standards.

Informed Consent Statement

Participation in the study was voluntary, and informed consent was obtained from all participants prior to their involvement.

Conflicts of Interest

The author declares that there are no conflicts of interest regarding the publication of this manuscript.

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