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IMPROVEMENT OF METHODS FOR ACCOUNTING AND ANALYSIS OF FINANCIAL RESULTS OF ORGANIZATIONS IN THE CONTEXT OF DIGITAL TRANSFORMATION OF THE ECONOMY

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Abstract

The digital transformation of the economy has fundamentally altered the conditions under which organizations form, record, and analyze their financial results. The rapid development of digital technologies, including enterprise resource planning systems, cloud accounting platforms, big data analytics, and artificial intelligence, has expanded the possibilities of financial information processing while simultaneously increasing methodological and analytical challenges. This study examines the improvement of accounting and analytical methods for financial results in the context of digital transformation, with particular emphasis on ensuring the relevance, reliability, and analytical value of financial information for managerial and external decision-making. The research focuses on the evolution of traditional accounting approaches toward integrated digital models that enable real-time data processing, enhanced transparency, and deeper analytical insights into organizational performance. Special attention is given to the transformation of accounting functions from predominantly retrospective recording to proactive analytical support of strategic management. The study highlights the role of digital tools in improving the accuracy of income and expense recognition, optimizing cost allocation, and strengthening analytical procedures used to assess profitability, efficiency, and financial sustainability. The findings demonstrate that the systematic integration of digital technologies into accounting and analysis contributes to higher quality

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financial results assessment and supports more informed economic decisions in modern organizations.

Keywords: Financial results, accounting methodology, financial analysis, digital transformation, digital accounting systems, management decision-making, economic efficiency, data analytics.

СОВЕРШЕНСТВОВАНИЕ МЕТОДИКИ УЧЕТА И АНАЛИЗА ФИНАНСОВЫХ РЕЗУЛЬТАТОВ ОРГАНИЗАЦИЙ В УСЛОВИЯХ ЦИФРОВОЙ ТРАНСФОРМАЦИИ ЭКОНОМИКИ

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Аннотация

Цифровая трансформация экономики коренным образом изменила условия, в которых организации формируют, отражают и анализируют свои финансовые результаты. Стремительное развитие цифровых технологий, включая системы планирования ресурсов предприятия, облачные бухгалтерские платформы, аналитику больших данных и искусственный интеллект, расширило возможности обработки финансовой информации, одновременно усилив методологические и аналитические вызовы. В данном исследовании рассматриваются вопросы совершенствования методов учета и анализа финансовых результатов в условиях цифровой трансформации с особым акцентом на обеспечение релевантности, надежности и аналитической ценности финансовой информации для управленческих и внешних экономических решений. Исследование сосредоточено на эволюции традиционных подходов к бухгалтерскому учету в направлении интегрированных цифровых моделей, обеспечивающих обработку данных в режиме реального времени, повышение прозрачности и получение более глубоких аналитических представлений о результатах деятельности организаций.

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Особое внимание уделяется трансформации функций учета от преимущественно ретроспективной фиксации хозяйственных операций к проактивной аналитической поддержке стратегического управления. В работе подчеркивается роль цифровых инструментов в повышении точности признания доходов и расходов, оптимизации распределения затрат и усилении аналитических процедур, применяемых для оценки прибыльности, эффективности и финансовой устойчивости. Полученные результаты свидетельствуют о том, что системная интеграция цифровых технологий в учет и анализ способствует повышению качества оценки финансовых результатов и поддерживает принятие более обоснованных экономических решений в современных организациях.

Ключевые слова: финансовые результаты, методология учета, финансовый анализ, цифровая трансформация, цифровые учетные системы, управленческие решения, экономическая эффективность, аналитика данных

Introduction

The contemporary economic environment is increasingly shaped by the rapid diffusion of digital technologies, which significantly influence the way organizations operate, manage resources, and evaluate their financial performance. Digital transformation has become a strategic priority for organizations seeking to enhance competitiveness, operational efficiency, and transparency in financial reporting. In this context, accounting and analysis of financial results play a crucial role, as they provide the informational foundation for managerial decisions, investment assessments, and external stakeholder evaluations. Traditional accounting methodologies, developed for relatively stable and paper-based economic systems, are often insufficient to fully reflect the complexity and dynamics of digitally driven business processes.

The accounting of financial results traditionally focuses on the recognition, measurement, and reporting of revenues, expenses, and profits based on established accounting standards and periodic reporting cycles. While these approaches ensure comparability and regulatory compliance, they are limited in

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their ability to provide timely and analytically rich information in a digital economy characterized by high transaction volumes, rapid data generation, and continuous business operations. Digital transformation challenges these conventional frameworks by introducing real-time data flows, automated processing, and integrated information systems that fundamentally change the nature of financial information.

One of the key implications of digital transformation is the shift from fragmented accounting systems to integrated digital platforms that combine accounting, management, and analytical functions. Enterprise resource planning systems, cloud-based accounting solutions, and advanced analytical tools enable organizations to collect and process financial data in real time, thereby reducing information asymmetry and enhancing the accuracy of financial results. This integration creates new opportunities for improving accounting methodologies, particularly in terms of cost allocation, revenue recognition, and performance measurement across complex organizational structures.

For economic universities and the training of future economists, the improvement of accounting and analytical methods under digital transformation is of particular relevance. Graduates are increasingly expected to possess not only theoretical knowledge of accounting standards but also practical competencies in digital accounting systems, data analysis, and interpretation of financial information in technologically advanced environments. Understanding how digital tools reshape accounting processes is therefore essential for developing professional skills aligned with modern economic practice.

Moreover, digital transformation enhances the analytical dimension of financial results by enabling the use of big data, predictive analytics, and artificial intelligence. These technologies allow organizations to move beyond descriptive analysis toward more forward-looking assessments of financial performance, risks, and sustainability. As a result, financial analysis becomes a strategic instrument that supports long-term planning and value creation rather than a purely retrospective evaluation of past performance.

Despite the evident advantages of digitalization, the transition to digital accounting and analysis also presents methodological challenges. Issues related to data quality, cybersecurity, standardization, and the interpretation of large

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datasets require careful consideration and adaptation of existing accounting methodologies. This study addresses these challenges by examining ways to improve accounting and analytical methods for financial results in the context of digital transformation, emphasizing their role in enhancing the quality and usefulness of financial information for economic decision-making.

Methods

The methodological framework of this study is based on a combination of general scientific and specialized economic research methods that allow for a comprehensive examination of the improvement of accounting and analytical methods for financial results in the context of digital transformation. The use of a systematic approach makes it possible to consider accounting and financial analysis as interconnected elements of a unified information system that supports managerial and economic decision-making. This approach enables the identification of structural changes in accounting processes caused by the introduction of digital technologies and their impact on the quality of financial results assessment.

Analytical and synthetic methods are applied to examine the transformation of traditional accounting methodologies under digital conditions. Through analysis, individual elements of accounting and financial analysis, such as revenue recognition, cost classification, and profit measurement, are examined in relation to digital tools and automated systems. Synthesis is used to integrate these elements into a coherent methodological model that reflects the new logic of digital accounting and analysis. This combination allows for a balanced evaluation of both theoretical foundations and practical implications of digital transformation in accounting.

The study employs a comparative method to assess differences between conventional accounting and analytical practices and digitally enhanced approaches. This method makes it possible to identify key advantages of digital accounting systems, including real-time data processing, increased accuracy, and enhanced analytical capabilities. Comparative analysis also highlights limitations and risks associated with digitalization, such as dependence on

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information technologies and challenges in ensuring data reliability and consistency across systems.

A review and content analysis of scientific literature, international accounting standards, and professional guidelines form an important part of the methodological basis. This method is used to systematize existing theoretical perspectives on digital accounting and financial analysis, as well as to identify prevailing trends and unresolved methodological issues. The analysis of academic publications and regulatory documents ensures that the study is grounded in established scientific knowledge and contemporary professional practice.

In addition, the research applies logical and structural analysis to examine the stages of accounting and analysis of financial results within digital environments. This method facilitates the identification of cause-and-effect relationships between the use of digital technologies and changes in accounting procedures and analytical outcomes. The methodological toolkit also includes elements of qualitative assessment, based on generalized practical experience of organizations implementing digital accounting systems. The combined application of these methods ensures the validity and reliability of the research findings and supports the formulation of conclusions relevant to economic education and professional practice.

Results

The results of the study demonstrate that digital transformation significantly improves the methods of accounting and analysis of financial results by enhancing the accuracy, timeliness, and analytical depth of financial information. One of the key findings is that the implementation of digital accounting systems leads to a substantial reduction in manual data processing and human error. Automated recording of transactions ensures more consistent recognition of revenues and expenses, which directly contributes to the reliability of financial results and increases confidence in reported performance indicators.

The study reveals that digital tools enable a transition from periodic to continuous accounting and analysis of financial results. Real-time data

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processing allows organizations to monitor profitability, cost behavior, and financial efficiency on an ongoing basis rather than relying solely on end-of-period reports. This shift enhances the responsiveness of management to changes in operational and financial conditions and supports more informed and timely decision-making. As a result, accounting information becomes a dynamic resource rather than a static record of past activities.

Another significant result concerns the improvement of analytical capabilities through the integration of accounting systems with advanced data analytics. Digital platforms facilitate multidimensional analysis of financial results by product lines, business segments, projects, and cost centers. This level of analytical detail enables organizations to identify sources of profitability and inefficiency with greater precision. The study shows that such analytical enhancements contribute to a more objective assessment of financial performance and support strategic planning and resource allocation.

The findings also indicate that digital transformation strengthens the linkage between accounting and management analysis. Integrated information systems create a unified data environment in which accounting data serve both reporting and analytical purposes. This integration reduces information gaps between financial and managerial accounting and improves the coherence of financial results analysis. Consequently, financial analysis becomes more closely aligned with organizational strategy and operational objectives.

The study further demonstrates that the use of digital technologies supports the standardization and transparency of accounting processes. Automated controls and standardized data structures improve comparability of financial results across periods and organizational units. At the same time, digital audit trails enhance the traceability of financial data, which is particularly important for internal control and external assurance. Overall, the results confirm that digital transformation plays a decisive role in improving accounting and analytical methods for financial results, thereby increasing the informational value of financial reporting in modern organizations.

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Discussion

The results obtained in this study confirm that digital transformation is not merely a technological upgrade of accounting systems, but a fundamental methodological shift in the way financial results are formed, interpreted, and used for economic decision-making. The discussion of these findings highlights that improved accounting and analytical methods emerge primarily from the integration of digital technologies with established accounting principles, rather than from the replacement of traditional concepts. This integration allows organizations to preserve the reliability and standardization of accounting while significantly expanding its analytical potential.

From an academic and practical perspective, the discussion emphasizes that digital accounting systems redefine the role of accounting professionals. Accountants and analysts increasingly act as interpreters of financial data rather than solely as record keepers. The availability of real-time and high-volume data requires advanced analytical skills and professional judgment to extract meaningful insights from financial results. This transformation aligns accounting more closely with management functions and strategic planning, reinforcing its relevance in the digital economy.

The discussion also reveals that while digital tools enhance the accuracy and depth of financial results analysis, they introduce new methodological challenges. One of the key issues is the quality of input data, as automated systems amplify the consequences of inaccurate or incomplete data entry. This underscores the continued importance of internal control systems and professional oversight, even in highly digitalized accounting environments. The effectiveness of improved methodologies therefore depends not only on technological capabilities but also on organizational governance and control mechanisms.

Another important aspect concerns the balance between standardization and flexibility in digital accounting. Digital platforms often rely on standardized data models and predefined analytical algorithms, which improve comparability and efficiency. However, excessive standardization may limit the ability of organizations to reflect industry-specific or organization-specific features of financial results. The discussion suggests that methodological improvement

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requires adaptable digital solutions that allow customization without compromising data integrity or compliance with accounting standards.

In the context of economic education, the discussion highlights the necessity of revising curricula in economic universities to reflect the realities of digital accounting and analysis. Future economists must be trained to understand both the technological infrastructure of digital systems and the methodological implications for financial results assessment. The integration of digital tools into accounting education enhances the ability of graduates to critically evaluate financial information and apply analytical methods in technologically advanced business environments.

Overall, the discussion supports the view that the improvement of accounting and analytical methods for financial results under digital transformation is a multidimensional process. It involves technological innovation, methodological adaptation, professional competence development, and institutional support. Recognizing these interdependencies is essential for maximizing the benefits of digital transformation and ensuring that financial results remain a reliable and strategically valuable component of economic information systems.

Conclusion

The conducted study demonstrates that the improvement of accounting and analytical methods for financial results in the context of digital transformation represents a critical direction for the sustainable development of modern organizations and economic systems. Digital transformation fundamentally reshapes the processes of generating, processing, and interpreting financial information, expanding the functional boundaries of accounting and elevating its role in managerial and strategic decision-making. As a result, accounting and financial analysis evolve from predominantly retrospective and formalized practices into dynamic, analytically intensive instruments that support continuous performance evaluation.

The findings confirm that digital technologies significantly enhance the quality of accounting for financial results by improving accuracy, timeliness, and transparency. Automated data processing, real-time recording of transactions, and integrated information systems reduce operational errors and increase the

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consistency of revenue and expense recognition. These improvements strengthen the reliability of financial results and create a more solid informational basis for both internal management and external stakeholders. Consequently, financial reporting gains greater credibility and analytical value in the digital economy.

An important conclusion of the study is that digital transformation intensifies the analytical dimension of financial results assessment. Advanced data analytics, integrated accounting platforms, and real-time reporting tools enable organizations to conduct multidimensional and forward-looking analysis of profitability, efficiency, and financial sustainability. This shift enhances the strategic function of financial analysis, allowing organizations to identify trends, assess risks, and support long-term value creation. The improved methodologies contribute to a deeper understanding of financial performance and promote more effective allocation of economic resources.

At the same time, the study emphasizes that technological progress alone does not guarantee methodological improvement. The effectiveness of digital accounting and analysis depends on the quality of data, the robustness of internal control systems, and the professional competence of accounting specialists. Digital environments increase the importance of professional judgment, ethical responsibility, and analytical skills, as automated systems amplify both the benefits and risks associated with financial information processing. Therefore, methodological improvement must be accompanied by institutional and educational support.

From the perspective of economic universities, the results underline the necessity of adapting educational programs to the requirements of the digital economy. Training future economists to work with digital accounting systems and analytical tools is essential for ensuring their readiness to operate in technologically advanced organizational environments. Integrating digital accounting and financial analysis into academic curricula enhances the relevance of economic education and supports the development of competencies demanded by modern labor markets.

In conclusion, the improvement of methods for accounting and analysis of financial results in the context of digital transformation is a comprehensive and

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ongoing process. It requires the harmonization of technological innovation, methodological development, and professional training. Successfully addressing these dimensions strengthens the role of accounting and financial analysis as key components of economic governance and contributes to more informed, transparent, and sustainable economic decision-making.

References

1. AICPA. (2020). Audit analytics and continuous auditing: Looking toward the future. American Institute of Certified Public Accountants.
2. Appelbaum, D., Kogan, A., Vasarhelyi, M. A., & Yan, Z. (2017). Impact of business analytics and enterprise systems on managerial accounting. International Journal of Accounting Information Systems, 25, 29–44. https://doi.org/10.1016/j.accinf.2017.03.003
3. Bhimani, A., & Willcocks, L. (2014). Digitisation, 'big data' and the transformation of accounting information. Accounting and Business Research, 44(4), 469–490. https://doi.org/10.1080/00014788.2014.910051
4. Davenport, T. H., & Harris, J. G. (2017). Competing on analytics: The new science of winning. Harvard Business School Press.
5. Dechow, P., Ge, W., & Schrand, C. (2010). Understanding earnings quality: A review of the proxies, their determinants and their consequences. Journal of Accounting and Economics, 50(2–3), 344–401. https://doi.org/10.1016/j.jacceco.2010.09.001
6. Granlund, M. (2011). Extending AIS research to management accounting and control issues: A research note. International Journal of Accounting Information Systems, 12(1), 3–19. https://doi.org/10.1016/j.accinf.2010.11.001
7. Horngren, C. T., Datar, S. M., & Rajan, M. V. (2018). Cost accounting: A managerial emphasis. Pearson Education.
8. IFRS Foundation. (2023). International Financial Reporting Standards (IFRS). https://www.ifrs.org
9. Kokina, J., & Davenport, T. H. (2017). The emergence of artificial intelligence: How automation is changing auditing. Journal of Emerging

Modern American Journal of Business, Economics, and Entrepreneurship
ISSN (E): 3067-7203
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Website: usajournals.org

Technologies in Accounting, 14(1), 115–122. https://doi.org/10.2308/jeta-51730

10. Laudon, K. C., & Laudon, J. P. (2020). Management information systems: Managing the digital firm. Pearson Education.
11. McAfee, A., & Brynjolfsson, E. (2017). Machine, platform, crowd: Harnessing our digital future. W. W. Norton & Company.
12. Moll, J., & Yigitbasioglu, O. (2019). The role of internet-related technologies in shaping the work of accountants: New directions for accounting research. The British Accounting Review, 51(6), 100833. https://doi.org/10.1016/j.bar.2019.04.002
13. OECD. (2020). Digital transformation in the age of COVID-19. OECD Publishing.
14. Romney, M. B., & Steinbart, P. J. (2021). Accounting information systems. Pearson Education.
15. Scapens, R. W., & Jazayeri, M. (2003). ERP systems and management accounting change. European Accounting Review, 12(1), 201–233. https://doi.org/10.1080/0963818031000087907
16. Sutton, S. G., Holt, M., & Arnold, V. (2016). The reports of my death are greatly exaggerated: Artificial intelligence research in accounting. International Journal of Accounting Information Systems, 22, 60–73. https://doi.org/10.1016/j.accinf.2016.07.005
17. Tidd, J., & Bessant, J. (2020). Managing innovation: Integrating technological, market and organizational change. Wiley.
18. Vasarhelyi, M. A., Kogan, A., & Tuttle, B. M. (2015). Big data in accounting: An overview. Accounting Horizons, 29(2), 381–396. https://doi.org/10.2308/acch-51071
19. Warren, J. D., Moffitt, K. C., & Byrnes, P. (2015). How big data will change accounting. Accounting Horizons, 29(2), 397–407. https://doi.org/10.2308/acch-51069
20. Zhang, Y., Xie, S., & Ho, K. (2022). Digital transformation, internal control quality, and financial performance. Journal of Accounting and Public Policy, 41(4), 106954. https://doi.org/10.1016/j.jaccpubpol.2022.106954.