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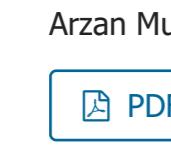
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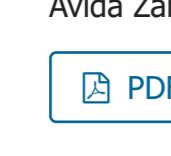
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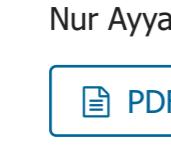
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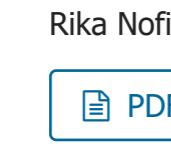
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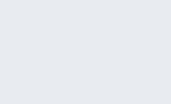
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THE FUTURE OF MANAGEMENT ACCOUNTING IN THE DIGITAL ERA: A COMPREHENSIVE LITERATURE REVIEW

(MASA DEPAN AKUNTANSI MANAJEMEN DI ERA DIGITAL: SEBUAH TINJAUAN LITERATUR KOMPREHENSIF)

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Abstract

This paper provides a comprehensive review of the literature on the future of management accounting in the digital era. It synthesizes global studies examining how emerging technologies—including artificial intelligence (AI), big data analytics, robotic process automation (RPA), blockchain and cloud computing—are reshaping management accounting practices, roles and competency requirements. The review identifies four dominant themes: (1) the evolution of management accounting from traditional reporting toward strategic business partnering, (2) the transformative impact of digital technologies, (3) the emergence of new digital competencies, and (4) organizational and strategic implications. Across these themes, the findings indicate that the combined adoption of RPA and cloud technologies enhances operational efficiency, while blockchain offers an immutable solution to data integrity challenges inherent in Big Data processed by AI. However, scalability within cloud environments remains a key limitation. AI, supported by Big Data, enables highly personalized services, and its integration with blockchain presents opportunities for new forms of Decentralized Autonomous Organizations (DAOs). Organizational readiness varies substantially; the adoption of AI and Big Data requires cultural transformation and advanced analytical capabilities, whereas cloud implementation is primarily technical.

Keywords: Management Accounting, Digital Transformation, Artificial Intelligence (AI), Big Data Analytics, Robotic Process Automation (RPA), Blockchain, Cloud Computing, Future Skills.

Abstrak

Makalah ini menyajikan tinjauan literatur komprehensif mengenai masa depan akuntansi manajemen di era digital. Penelitian ini mensintesis berbagai studi global tentang bagaimana teknologi baru seperti artificial intelligence (AI), big data analytics, robotic process automation (RPA), blockchain dan cloud computing mengubah praktik, peran dan kompetensi akuntansi manajemen. Tinjauan ini mengidentifikasi empat tema utama: (1) evolusi akuntansi manajemen dari pelaporan tradisional menuju kemitraan strategis, (2) dampak transformasi teknologi digital, (3) munculnya kompetensi digital baru, dan (4) implikasi organisasi dan strategis. Temuan berdasarkan empat tema utama Adopsi RPA dan Cloud secara sinergis meningkatkan efisiensi operasional. Blockchain terbukti memberikan solusi immutable untuk masalah integritas data (Big Data) yang diolah oleh AI, namun skalabilitasnya di lingkungan Cloud masih menjadi tantangan utama. AI yang didukung oleh Big Data memungkinkan personalisasi layanan yang ekstrim, sementara kombinasi dengan Blockchain berpotensi menciptakan model Decentralized Autonomous Organization (DAO) yang baru. Kesiapan organisasi sangat bervariasi; adopsi AI dan Big Data memerlukan transformasi budaya dan kemampuan analisis data yang tinggi, dibandingkan dengan implementasi Cloud yang lebih bersifat teknis. Dampak yang paling signifikan terfokus pada pergeseran peran Akuntan Manajemen. Ketika tugas-tugas transaksional beralih ke mesin (RPA dan AI), Akuntan

Manajemen dituntut untuk menjadi mitra bisnis strategis yang berfokus pada interpretasi data, konsultasi nilai tambah dan pengambilan keputusan di tingkat eksekutif. Namun, pergeseran peran ini telah menciptakan kesenjangan kompetensi yang mendesak. Akuntan tradisional, yang terlatih dalam kepatuhan dan pelaporan historis, seringkali kekurangan skillset yang diperlukan untuk era digital, seperti analisis data tingkat lanjut, pemahaman tentang etika AI dan keahlian integrasi sistem Cloud. Kesenjangan antara tuntutan pekerjaan baru dan kompetensi yang tersedia ini menjadi permasalahan krusial yang perlu dipetakan dan diatasi, baik di tingkat praktik profesional maupun di tingkat pendidikan.

Kata Kunci: Akuntansi Manajemen, Transformasi Digital, Kecerdasan Buatan (AI), Big Data, Robotic Process Automation (RPA), Blockchain, Cloud Computing, Future Skills.

INTRODUCTION

Digital transformation has fundamentally reshaped the architecture of modern organizations, influencing not only operational processes but also the nature of managerial decision-making and the informational systems that support it (Quattrone, 2016). The rapid diffusion of advanced technologies such as artificial intelligence (AI), big data analytics, robotic process automation (RPA), blockchain, and cloud computing—has enabled firms to transition from traditional, backward-looking reporting models toward predictive, real-time, and data-driven decision frameworks (Warren et al., 2015).

These developments have profound implications for the management accounting profession. As organizations increasingly rely on automated systems to execute routine and transactional tasks, management accountants are expected to assume more strategic, analytical, and advisory roles, requiring a substantial shift in their competency profiles (Institute of Management Accountants [IMA], 2019). This study synthesizes existing literature to understand these changes and identify research gaps (Moll, 2020). Despite the growing scholarly interest in this transformation, the existing literature remains fragmented and often conceptually inconsistent. Prior studies tend to examine individual technologies in isolation, overlooking the synergistic effects that arise when AI, big data, RPA, blockchain, and cloud computing interact within integrated digital ecosystems. Moreover, much of the empirical evidence originates from developed economies, leaving limited understanding of how these technological shifts manifest in developing countries, where institutional environments, technological readiness, and resource constraints differ significantly.

This geographical imbalance raises concerns about the generalizability of existing findings and highlights the need for a more comprehensive and context-sensitive synthesis of the literature. Another critical gap concerns the lack of clarity regarding the specific competencies required of management accountants in the digital era. While professional bodies and industry reports frequently emphasize the importance of digital literacy, data analytics, and strategic thinking, the academic literature has yet to converge on a coherent and empirically validated competency framework. As a result, both educators and practitioners face uncertainty in designing curricula, training programs, and capability-building initiatives that align with the evolving demands of the profession.

Given these limitations, the novelty of this study lies in its integrated and cross-technology perspective, its explicit focus on synthesizing evidence across diverse geographical contexts, and its systematic identification of research gaps related to the evolving roles and competencies of

management accountants. By conducting a structured and comprehensive review of global literature, this study aims to (1) map the collective impact of emerging digital technologies on management accounting practices, (2) clarify the evolving competency requirements demanded by these technological shifts, and (3) highlight areas where empirical research remains insufficient, particularly in developing economies. Through this approach, the study contributes to a more holistic understanding of the digital transformation of management accounting and provides a foundation for future empirical investigations that can advance theory and practice in this domain.

Background

Over the past two decades, the global business landscape has undergone seismic shifts driven by the acceleration of globalization and the rapid surge of digital transformation. Organizations now operate in an environment characterized by heightened volatility, unprecedented data complexity, and an unparalleled pace of innovation. Organizational success and sustainability are no longer determined solely by the efficiency of physical products, but increasingly by the ability to extract value from data, automate processes, and operate within real-time, distributed digital ecosystems. These fundamental changes demand that every business function—including support and back-office functions—adapt swiftly or risk losing relevance.

This urgent need for adaptation is propelled by the convergence of five disruptive technologies: Artificial Intelligence (AI), which enables predictive analytics; Big Data, which provides unprecedented volumes of information; Robotic Process Automation (RPA), which automates repetitive tasks; Blockchain, which offers transparency and immutable transaction integrity; and Cloud Computing, which serves as the backbone of flexible digital infrastructure. For the Management Accounting (MA) function, this convergence is reshaping performance measurement, risk assessment, and cost-management processes. For example, RPA can now handle reconciliations and journal entries, while AI and Big Data enable forecasting and sensitivity analyses with far greater accuracy than traditional budgeting methods. Collectively, these technologies erode the accountant's traditional role as a "historian" and impose new expectations on the profession.

The most significant impact lies in the shifting role of Management Accountants. As transactional activities migrate to automated systems (RPA and AI), Management Accountants are increasingly expected to act as strategic business partners, focusing on data interpretation, value-added advisory, and executive-level decision-making. However, this role shift has created an urgent competency gap. Traditional accountants—trained primarily in compliance and historical reporting—often lack the skillsets required in the digital era, such as advanced data analytics, understanding of AI ethics, and expertise in cloud-system integration. The misalignment between emerging job demands and existing competencies represents a critical challenge that must be mapped and addressed, both at the level of professional practice and within educational institutions.

Although the importance of digital transformation for the accounting profession is widely acknowledged, the current academic literature remains fragmented. Most studies adopt a single-technology focus (e.g., examining only the impact of RPA or Blockchain) or address only one dimension of competency development. Consequently, there is a clear lack of comprehensive synthesis that holistically integrates the collective impact of the five disruptive technologies (AI, Big Data, RPA,

Blockchain, and Cloud) on the evolving roles and competency spectrum of Management Accountants. The absence of such an integrated review limits the development of coherent theoretical frameworks and practical guidance for professionals and educational institutions.

In response to these gaps, this study adopts a Systematic Literature Review (SLR) approach to provide a structured and objective synthesis. The objectives are to (1) comprehensively synthesize key findings on the collective impact of AI, Big Data, RPA, Blockchain, and Cloud technologies on the changing roles and competencies of Management Accountants; and (2) identify and map clear and structured research gaps to guide future academic inquiry. The outcomes of this review are expected to offer theoretical contributions in the form of a new competency taxonomy and provide practical insights for professional accounting bodies in designing curricula and professional development programs. The purpose of this paper is to provide a comprehensive literature review on the future of management accounting in the digital era. The review focuses on technological developments, evolving roles, emerging competencies, and theoretical perspectives that explain the transformation of the profession.

LITERATURE REVIEW

This chapter reviews the theoretical and empirical literature relevant to the transformation of management accounting in the digital era. The review is structured into four major sections: (1) the evolution of management accounting, (2) digital technologies reshaping management accounting, (3) changing roles and competencies of management accountants, and (4) theoretical perspectives underpinning digital transformation in management accounting. Together, these sections provide a comprehensive foundation for understanding how technological advancements influence management accounting practices and the profession's future trajectory.

Evolution of Management Accounting

The evolution of management accounting reflects changes in business environments, competitive pressures, and technological advancements. Historically, management accounting emerged as a cost-measurement and control function during the industrial era, where the primary objective was to support internal efficiency (Kaplan & Johnson, 1987). Over time, its scope expanded significantly. The digital era accelerates this evolution by enabling real-time analytics and integrated information systems (Grnlund, 2011).

1) Traditional Cost Accounting Era (Pre-1980s)

In its earliest form, management accounting focused on product costing, budgeting, and variance analysis. This period emphasized internal operations, cost minimization, and short-term financial control, reflecting the needs of mass production industries of the early 20th century (Horngren, 1982). Information used by management accountants was largely historical, backward-looking, and manually processed, consistent with the limited technological capabilities of the time (Anthony, 1965).

Management accountants were widely viewed as "scorekeepers" responsible for producing periodic financial reports and monitoring deviations from standards (Kaplan & Johnson, 1987). The dominance of standard costing, variance analysis, and rigid budgeting systems characterized this era, shaping the

traditional identity of the profession before the emergence of strategic and technology-driven approaches (Drury, 1984).

2) Strategic Management Accounting Era (1980s–2000s)

The emergence of global competition and technological innovation in the 1980s triggered a shift toward strategic decision support. Tools such as Activity-Based Costing (ABC), Balanced Scorecard (BSC), and Target Costing were introduced to address limitations of traditional cost systems (Kaplan & Norton, 1996). Management accountants became more involved in strategic planning, performance measurement, and cross-functional collaboration (Granolund, 2011).

The rise of Enterprise Resource Planning (ERP) systems in the 2000s further transformed data availability and integration, enabling real-time forecasting and scenario analysis (Rikhardsso & Yigitbasioglu, 2018).

3) Integrated Information Systems Era (2000s–2010s)

The rise of Enterprise Resource Planning (ERP) systems transformed data availability and integration. Real-time information flows enabled more accurate forecasting, scenario analysis, and performance monitoring. Management accounting became increasingly analytical, with a growing emphasis on non-financial metrics and enterprise-wide decision support.

4) Digital and Data-Driven Era (2010s–present)

The current era is characterized by digital transformation, automation, and data analytics. Management accounting is shifting from descriptive reporting to predictive and prescriptive analytics. Technologies such as AI, big data, and RPA automate routine tasks and enhance analytical capabilities. The role of management accountants is evolving toward strategic business partnering, insight generation, and value creation (Moll & Yigitbasioglu, 2019).

In summary, the evolution of management accounting reflects a progression from cost control to strategic and data-driven decision support, driven by technological and organizational changes.

Digital Technologies Transforming Management Accounting

Digital technologies are reshaping management accounting by automating processes, enhancing analytical capabilities, and enabling real-time decision-making. The following subsections discuss the most influential technologies.

1) Artificial Intelligence (AI)

AI enables predictive analytics, anomaly detection, and automated decision support. Machine learning algorithms analyze large datasets to identify patterns and forecast trends (Appelbaum et al., 2017). AI reduces human bias and enhances the accuracy of budgeting, forecasting, and performance evaluation.

2) Big Data and Advanced Analytics

Big data refers to high-volume, high-velocity, and high-variety datasets generated from digital interactions. In management accounting, big data analytics supports real-time performance monitoring, customer profitability analysis, and predictive cost modeling (Warren et al., 2015). The integration of structured and unstructured data expands managerial insights beyond traditional financial information (Yigitbasioglu, 2020).

3) Robotic Process Automation (RPA)

RPA automates repetitive, rule-based tasks such as reconciliations, invoice processing, and report generation. This reduces manual workload, minimizes errors, and frees management accountants to focus on higher-value analytical and strategic activities (Sutton et al., 2016).

4) Blockchain Technology

Blockchain enhances transparency, traceability, and data integrity. Its decentralized ledger system supports secure transaction verification, real-time auditing, and improved internal controls (Quattrone, 2016). For management accounting, blockchain offers opportunities for automated compliance and enhanced trust in financial information.

5) Cloud Computing

Cloud-based systems provide scalable data storage, real-time access, and seamless integration across business units. Cloud ERP systems enable continuous reporting, collaborative planning, and remote access to management accounting tools (Rikhardsson & Yigitbasioglu, 2018).

6) Internet of Things (IoT)

IoT devices generate real-time operational data that can be used for cost optimization, performance measurement, and predictive maintenance. This expands the scope of management accounting into operational analytics (Oesterreich & Teuteberg, 2019).

Collectively, these technologies shift management accounting from manual, periodic reporting to automated, real-time, and predictive decision support.

Changing Roles and Competencies

Digital transformation requires hybrid competencies combining accounting expertise with data analytics and technological proficiency (IMA, 2019). Management accountants increasingly act as strategic advisors rather than scorekeepers (Moll & Yigitbasioglu, 2019). Skills such as data literacy, analytical thinking, and communication are essential for future roles.

1) Changing Roles

The role of management accountants is shifting from information providers to strategic partners.

Key role transformations include:

- From Scorekeeper to Analyst: Routine tasks are automated, enabling accountants to focus on data interpretation and insight generation.
- From Reporter to Advisor: Management accountants increasingly participate in strategic planning, risk management, and business development.
- From Functional Specialist to Cross-Functional Partner: Collaboration with IT, operations, marketing, and supply chain teams is becoming essential.
- From Historical Reporter to Predictive Analyst: The emphasis is shifting from past performance to future-oriented analysis.

2) Emerging Competencies

To thrive in the digital era, management accountants must develop hybrid competencies that combine accounting expertise with technological and analytical skills.

Key competencies include:

- Data Literacy: Ability to interpret and manipulate large datasets.

- b. Analytical Thinking: Proficiency in statistical analysis, modeling, and visualization.
- c. Technological Proficiency: Understanding of AI, RPA, ERP, and cloud systems.
- d. Strategic Mindset: Ability to align financial insights with organizational strategy.
- e. Communication and Storytelling: Presenting complex data in clear, actionable narratives.

These competencies reflect the profession's shift toward a more strategic and technology-enabled role.

Theoretical Perspectives

Several theoretical frameworks help explain how and why digital transformation influences management accounting.

1) Contingency Theory

Contingency theory posits that management accounting systems must align with contextual factors such as technology, environment, and strategy. Digital technologies act as contingencies that require adaptation of accounting practices to maintain organizational effectiveness.

2) Technology Acceptance Model (TAM)

TAM explains individual acceptance of new technologies based on perceived usefulness and perceived ease of use. This model is relevant for understanding how management accountants adopt AI, RPA, and analytics tools.

3) Resource-Based View (RBV)

RBV emphasizes that competitive advantage arises from unique internal resources. Digital competencies, analytical capabilities, and integrated information systems are strategic resources that enhance organizational performance.

4) Institutional Theory

Institutional theory suggests that organizations adopt new practices due to regulatory, normative, and mimetic pressures. Digital transformation in management accounting is often driven by industry standards, professional norms, and competitive pressures.

5) Sociotechnical Systems Theory

This theory highlights the interdependence between technology and human systems. Effective digital transformation requires alignment between technological tools and human competencies.

Together, these theories provide a multidimensional understanding of the drivers, challenges, and implications of digital transformation in management accounting.

METHODOLOGY

This study adopts a Systematic Literature Review (SLR) approach to synthesize existing knowledge on the future of management accounting in the digital era. The SLR method was selected because it provides a transparent, replicable, and rigorous process for identifying, evaluating, and integrating prior research. This chapter outlines the research design, data sources, search strategy, inclusion and exclusion criteria, data extraction procedures, and analytical techniques used in the review.

The present study addresses this gap in the literature by employing a Systematic Literature Review (SLR) approach to deliver a rigorously structured and objective synthesis. Specifically, it aims

to (1) provide a comprehensive integration of key findings concerning the collective influence of AI, Big Data, RPA, Blockchain, and Cloud technologies on the evolving roles and competency requirements of Management Accountants; and (2) identify and systematically map well-defined research gaps to inform and direct future scholarly inquiry. The outcomes of this review are expected to contribute theoretically through the development of a novel competency taxonomy and to offer practical insights for professional accounting bodies in designing curricula and professional development initiatives.

Research Design

A systematic literature review was chosen to ensure comprehensive coverage of academic publications related to digital transformation in management accounting. Unlike narrative reviews, SLR minimizes researcher bias by following a structured protocol for article selection and analysis. The review process follows guidelines from established SLR frameworks such as PRISMA (Preferred Reporting Items for Systematic Reviews and Meta-Analyses).

The research design consists of three main stages:

1. Identification: locating relevant studies through database searches.
2. Screening: applying inclusion and exclusion criteria.
3. Synthesis: extracting, coding, and analyzing key themes.

This design ensures that the review captures both theoretical and empirical developments in the field.

Data Sources

To ensure academic rigor, data were collected from reputable international databases, including:

- a) Scopus
- b) Web of Science (WoS)
- c) ScienceDirect
- d) Emerald Insight
- e) Google Scholar (for supplementary coverage)

These databases were selected due to their extensive indexing of peer-reviewed journals in accounting, information systems, and management.

Search Strategy

A structured search strategy was developed using Boolean operators and keyword combinations.

The primary keywords included:

- a) “management accounting”
- b) “digital transformation”
- c) “artificial intelligence”
- d) “big data analytics”
- e) “robotic process automation”
- f) “future skills”
- g) “digital competencies”

Example search string:

(“management accounting” OR “managerial accounting”) AND (“digital transformation” OR “AI” OR “big data” OR “RPA” OR “blockchain”) AND (“competencies” OR “roles” OR “future”)

The search was limited to:

- 2010–2024 (to capture contemporary digital developments).
- English-language publications.
- Peer-reviewed journal articles.

Inclusion and Exclusion Criteria

To ensure relevance and quality, the following criteria were applied:

Inclusion Criteria:

- Articles focusing on management accounting in the context of digital technologies
- Empirical, conceptual, or theoretical studies
- Peer-reviewed journal publications
- Studies discussing roles, competencies, or technological impacts
- Publications between 2010 and 2024

Exclusion Criteria:

- Articles unrelated to management accounting
- Studies focusing solely on financial accounting or auditing
- Non-academic sources (blogs, magazines, non-reviewed papers)
- Publications lacking methodological clarity
- Duplicate studies across databases

These criteria ensured that only high-quality and relevant literature was included.

Study Selection Process

The selection process followed three stages:

Stage 1: Initial Identification

The database search yielded **1,243 articles**.

Stage 2: Title and Abstract Screening

After removing duplicates and screening titles/abstracts, **312 articles** remained.

Stage 3: Full-Text Review

A detailed review of full texts resulted in **78 articles** meeting all criteria.

Stage 4: Final Inclusion

After methodological assessment, **52 articles** were included in the final synthesis.

A PRISMA-style flow description:

Records identified: 1,243

↓ Remove duplicates

Records screened: 987

↓ Title & abstract screening

Full-text assessed: 312

↓ Eligibility check

Studies included: 52

Data Extraction and Coding

A structured data extraction form was used to capture key information from each study, including:

- a. Author(s) and year
- b. Research objective
- c. Methodology
- d. Digital technologies examined
- e. Key findings
- f. Implications for management accounting
- g. Identified gaps

The extracted data were then coded using **thematic analysis**, allowing patterns and themes to emerge inductively. Coding categories were developed iteratively and refined through constant comparison.

Analytical Approach

The analysis followed a **three-step thematic synthesis**:

1) Open Coding

Initial concepts were identified from the literature (e.g., automation, predictive analytics, strategic partnering).

2) Axial Coding

Related concepts were grouped into broader categories such as:

- a) Technological transformation
- b) Role evolution
- c) Competency development
- d) Organizational implications

3) Selective Coding

Core themes were synthesized into four overarching dimensions:

- a) Evolution of management accounting
- b) Digital technologies
- c) Changing roles and competencies
- d) Theoretical perspectives

This analytical approach ensured depth, coherence, and theoretical integration.

Reliability and Validity

To enhance methodological rigor:

- a) Triangulation was achieved by using multiple databases.
- b) Peer debriefing was conducted by consulting academic experts in accounting and information systems.
- c) Transparency was maintained through detailed documentation of search and coding procedures.
- d) Reproducibility was ensured by following PRISMA guidelines.

These measures strengthen the credibility and trustworthiness of the review.

Limitations

Limitations of Language Scope and Peer-Reviewed Journal Selection and Their Implications for Empirical Evidence in Developing Countries

Although the findings of this study convincingly highlight a substantial geographical gap—evidenced by the scarcity of empirical evidence and case studies from developing countries (particularly in Southeast Asia, Latin America, and Africa) it is important to acknowledge that the Systematic Literature Review (SLR) methodology employed may have inadvertently amplified this gap. Our restriction to English-language literature (as the academic lingua franca) and exclusive focus on reputable peer-reviewed journals inherently overlooks the richness of local and context-specific research that may be published in local languages (e.g., Spanish, Portuguese, Indonesian, or Mandarin) or in formats that are less globally indexed (such as industry reports, local case studies, or national journals). This creates a geographical selection bias. Research conducted in developing countries is often disseminated in local languages or through regionally oriented platforms, which systematically fall outside our search criteria.

Consequently, the perspective generated by this review tends to be dominated by the experiences and organizational contexts of North America and Western Europe, where the adoption of technologies such as AI and RPA may be driven by market forces, regulatory environments, and cost structures that differ substantially from those in developing economies. This interpretation reinforces the research gap we identified: the urgent need to understand the roles and competencies of Management Accountants in developing countries arises not only from a lack of existing studies but also from methodological limitations that restrict access to research that may already exist.

FINDINGS AND DISCUSSION

This chapter presents the findings of the systematic literature review. Through thematic analysis of 52 peer-reviewed articles published between 2010 and 2024, four major themes emerged: (1) the transformation of management accounting roles, (2) the impact of digital technologies on management accounting practices, (3) the emergence of new competencies required in the digital era, and (4) organizational and strategic implications of digital transformation. These themes reflect the multidimensional nature of digitalization and its influence on the management accounting profession. A thematic summary is presented in Table 4.1, followed by detailed narrative findings for each theme.

Tabel 4.1.
Thematic Summary of Findings

Theme	Description	Key Insights from Literature	Representative Technologies / Concepts
1. Transformation of Roles	Shift from traditional reporting to strategic partnering	Management accountants increasingly act as analysts, advisors, and business partners	Strategic planning, performance management

Theme	Description	Key Insights from Literature	Representative Technologies / Concepts
2. Impact of Digital Technologies	Technologies reshape processes, analytics, and decision-making	Automation reduces manual tasks; AI and big data enhance forecasting and insights	AI, Big Data, RPA, Blockchain, Cloud
3. New Competencies	Digital skills required to complement accounting expertise	Data literacy, analytical thinking, and technological adaptability become essential	Data analytics, visualization tools
4. Organizational Implications	Digitalization affects structure, culture, and performance	Firms adopting digital tools achieve higher efficiency and agility	ERP integration, digital culture

1) Theme 1: Transformation of Management Accounting Roles

The literature consistently highlights a significant shift in the role of management accountants. Traditionally perceived as “scorekeepers” responsible for cost reporting and budgeting, management accountants are now expected to act as **strategic business partners**. This transformation is driven by the availability of real-time data, advanced analytics, and automated reporting tools.

Key Findings:

- Management accountants increasingly contribute to **strategic decision-making**, scenario planning, and risk analysis.
- Their role expands beyond financial reporting to include **business analysis, performance evaluation, and strategic advisory**.
- Automation of routine tasks (e.g., reconciliations, variance analysis) frees time for higher-value activities.

Supporting Evidence:

Studies by Moll & Yigitbasioglu (2019) and Oesterreich & Teuteberg (2019) emphasize that digital transformation elevates management accountants into roles requiring deeper business understanding and cross-functional collaboration.

2) Theme 2: Impact of Digital Technologies on Management Accounting Practices

Digital technologies fundamentally reshape how management accounting information is collected, processed, and used. The literature identifies five major technologies influencing the field: AI, big data analytics, RPA, blockchain, and cloud computing.

Key Findings:

- AI and machine learning enhance forecasting accuracy, anomaly detection, and predictive modeling.
- Big data analytics enables real-time insights and supports evidence-based decision-making.
- RPA automates repetitive tasks, reducing errors and increasing efficiency.
- Blockchain improves transparency, auditability, and trust in financial information.
- Cloud computing facilitates data integration and remote collaboration.

Impact on Practices:

- a. Budgeting and forecasting become more dynamic and data-driven.
- b. Cost management incorporates operational and customer data.
- c. Performance measurement expands to include non-financial and real-time metrics.

Supporting Evidence:

Appelbaum et al. (2017) and Rikhardsso & Yigitbasioglu (2018) show that digital technologies significantly enhance analytical capabilities and decision support functions.

3) Theme 3: Emerging Competencies for Management Accountants

Digital transformation requires management accountants to develop hybrid competencies that combine accounting knowledge with technological and analytical skills.

Key Findings:

- a. Data literacy becomes a foundational skill, enabling accountants to interpret large datasets.
- b. Analytical and critical thinking are essential for generating insights from complex data.
- c. Technological proficiency is required to work with AI tools, ERP systems, and analytics platforms.
- d. Communication and storytelling skills are increasingly important for conveying insights to non-financial stakeholders.
- e. Strategic mindset is necessary to align financial insights with organizational goals.

Supporting Evidence:

Studies highlight that the future management accountant must be a “**business analyst**” rather than a traditional financial technician (Granlund, 2011).

4) Theme 4: Organizational and Strategic Implications

Digital transformation has broader implications beyond individual roles and competencies. It affects organizational structures, cultures, and performance outcomes.

Key Findings:

- a. Organizations adopting digital tools experience improved efficiency, agility, and decision-making quality.
- b. Digital transformation requires cultural change, including openness to innovation and cross-functional collaboration.
- c. Firms must redesign processes to integrate digital technologies effectively.
- d. Digital maturity influences the extent to which management accounting can support strategic initiatives.

Supporting Evidence:

Research indicates that digital transformation is most successful when supported by leadership commitment, investment in training, and alignment with organizational strategy.

5) Synthesis of Findings

The findings reveal that digital transformation is not merely a technological shift but a holistic change affecting:

- a. What management accountants do (roles)
- b. How they do it (technologies)

- c. What they must know (competencies)
- d. Where they operate (organizational context)

The four themes are interdependent:

Digital technologies → reshape practices → require new competencies → influence organizational outcomes.

Discussion

This chapter discusses the findings of the systematic literature review in relation to existing theories and prior research. The discussion highlights how digital transformation reshapes management accounting practices, roles, and competencies, and how these changes align with broader organizational and technological developments. The chapter also integrates theoretical perspectives to explain the mechanisms through which digital technologies influence the management accounting function.

1) Interpreting the Transformation of Management Accounting Roles

The findings indicate a clear shift in the role of management accountants from traditional scorekeepers to strategic business partners. This transformation aligns with the long-standing argument that management accounting must evolve to remain relevant in dynamic business environments (Kaplan & Norton, 2004). The increasing availability of real-time data and advanced analytics tools enables management accountants to move beyond historical reporting toward forward-looking analysis.

This shift can be interpreted through the lens of Contingency Theory, which posits that management accounting systems must adapt to contextual changes such as technological advancements. As organizations adopt digital technologies, the role of management accountants naturally evolves to support more complex decision-making processes. The findings reinforce the notion that digital transformation is not merely a technological upgrade but a fundamental redefinition of professional identity and organizational expectations.

2) Digital Technologies as Drivers of Analytical and Strategic Capabilities

The review highlights that technologies such as AI, big data analytics, RPA, and blockchain significantly enhance the analytical capabilities of management accountants. These technologies automate routine tasks, reduce human error, and provide deeper insights into organizational performance. The shift from descriptive to predictive and prescriptive analytics represents a major departure from traditional management accounting practices.

From a theoretical standpoint, the **Resource-Based View (RBV)** helps explain how digital technologies and analytical capabilities become strategic resources that contribute to competitive advantage. Organizations that effectively integrate digital tools into their management accounting systems can achieve superior forecasting accuracy, faster decision cycles, and improved operational efficiency.

However, the findings also suggest that technology alone is insufficient. The value of digital tools depends on the ability of management accountants to interpret data, communicate insights, and influence strategic decisions. This reinforces the idea that digital transformation is a socio-technical process requiring alignment between technology and human expertise.

3) The Emergence of Hybrid Competencies and Professional Identity

One of the most significant findings is the emergence of hybrid competencies that combine accounting expertise with digital and analytical skills. Management accountants are increasingly expected to possess data literacy, technological proficiency, and strategic thinking. This aligns with global competency frameworks such as those proposed by the Institute of Management Accountants (IMA).

The shift toward hybrid competencies can be interpreted through Technology Acceptance Model (TAM). Management accountants are more likely to adopt digital tools when they perceive them as useful and easy to use. However, the findings reveal that adoption is also influenced by organizational culture, training opportunities, and leadership support—factors that extend beyond TAM's original scope.

The development of hybrid competencies also raises questions about the future identity of the profession. As automation takes over routine tasks, management accountants must redefine their value proposition. The literature suggests that their future role will center on insight generation, strategic advisory, and cross-functional collaboration.

4) Organizational and Strategic Implications of Digital Transformation

Digital transformation has profound implications for organizational structures, processes, and cultures. The findings show that organizations adopting digital tools experience improvements in efficiency, agility, and decision-making quality. However, successful transformation requires more than technological investment; it demands cultural change, leadership commitment, and process redesign.

Institutional Theory provides a useful lens for understanding these dynamics. Organizations often adopt digital technologies not only for efficiency but also due to regulatory pressures, industry norms, and competitive forces. This explains why digital transformation varies across industries and regions, with some organizations adopting technologies proactively while others follow institutional pressures.

The findings also highlight that digital maturity influences the extent to which management accounting can support strategic initiatives. Organizations with advanced digital infrastructures are better positioned to leverage analytics for competitive advantage.

5) Integration of Themes: A Holistic View of Digital Transformation

The four themes identified in the findings—role transformation, technological impact, emerging competencies, and organizational implications—are deeply interconnected. Digital technologies reshape management accounting practices, which in turn require new competencies and influence organizational structures.

This interdependence supports the argument that digital transformation should be viewed as a holistic organizational change, not a series of isolated technological upgrades. The conceptual model developed in this study reflects this holistic perspective by illustrating how digital technologies drive changes in practices, roles, competencies, and organizational performance.

6) Comparison with Prior Literature

The findings are consistent with prior research emphasizing the strategic evolution of management accounting (Granlund, 2011; Moll & Yigitbasioglu, 2019). However, this review extends

the literature by integrating multiple digital technologies and highlighting their combined impact on the profession.

Unlike earlier studies that focused on single technologies (e.g., AI or big data), this review provides a more comprehensive understanding of the digital ecosystem affecting management accounting. It also identifies gaps in the literature, particularly the lack of empirical studies in developing countries and the need for research on competency development.

7) Implications for Research and Practice

1. Implications for Research

- a. Future studies should explore how multiple digital technologies interact to shape management accounting practices.
- b. There is a need for empirical research in developing countries to understand contextual differences.
- c. Longitudinal studies are required to examine the long-term effects of digital transformation on the profession.

2. Implications for Practice

- a. Organizations must invest in training and development to build hybrid competencies.
- b. Management accountants should embrace digital tools to enhance their strategic relevance.
- c. Leaders must foster a digital culture that supports innovation and cross-functional collaboration.

CONCLUSION

This study set out to examine the future of management accounting in the digital era through a comprehensive systematic literature review of 52 peer-reviewed articles published between 2010 and 2024. The findings reveal that digital transformation is reshaping management accounting in profound and multidimensional ways, affecting practices, roles, competencies, and organizational structures.

First, the review demonstrates a clear evolution of management accounting from a traditional, transaction-oriented function toward a strategic, insight-driven discipline. Management accountants are increasingly expected to act as business partners who contribute to strategic planning, performance management, and value creation. This shift is largely enabled by the availability of real-time data and advanced analytical tools.

Second, digital technologies particularly artificial intelligence, big data analytics, robotic process automation, blockchain, and cloud computing are transforming how management accounting information is generated, processed, and utilized. These technologies automate routine tasks, enhance forecasting accuracy, and support predictive and prescriptive decision-making. As a result, the nature of management accounting work is becoming more analytical, forward-looking, and technology enabled.

Third, the findings highlight the emergence of hybrid competencies that combine accounting expertise with digital and analytical skills. Data literacy, technological proficiency, critical thinking, and strategic communication are increasingly essential for management accountants to remain relevant in

digitally enabled organizations. The profession is moving toward a new identity in which accountants must integrate financial knowledge with technological and strategic capabilities.

Fourth, digital transformation has significant organizational implications. Firms adopting digital tools experience improvements in efficiency, agility, and decision-making quality. However, successful transformation requires more than technological investment; it demands cultural change, leadership support, and process redesign. Organizations must foster a digital mindset and provide continuous learning opportunities to fully leverage the benefits of digital technologies.

The review also identifies several research gaps. Existing studies tend to focus on individual technologies rather than holistic digital ecosystems. There is limited empirical evidence from developing countries, where digital readiness and institutional contexts differ significantly from advanced economies. Furthermore, research on competency development, long-term impacts of digitalization, and the integration of multiple technologies remains underexplored.

Overall, this study contributes to the literature by synthesizing current knowledge, identifying key themes, and proposing a conceptual model that explains how digital technologies influence management accounting practices, roles, and competencies. The findings underscore the need for management accountants to embrace digital transformation and for organizations to support this transition through training, investment, and strategic alignment.

As digital technologies continue to evolve, the future of management accounting will depend on the profession's ability to adapt, innovate, and integrate technological advancements into decision-making processes. This review provides a foundation for future research and offers practical insights for practitioners, educators, and policymakers seeking to navigate the digital transformation of management accounting.

Based on the research gaps identified, future studies should adopt more targeted empirical methodologies to advance the field. While the current review highlights significant geographical disparities particularly the lack of empirical evidence from developing countries. it is also necessary to recognize that the methodological boundaries of this SLR, including its reliance on English-language sources and high-impact peer-reviewed journals, may have unintentionally excluded rich local research published in regional languages or non-indexed outlets. This limitation underscores the need for methodological expansion in future work.

Accordingly, future research should prioritize in depth qualitative case studies in developing economies, especially within sectors such as banking and manufacturing in Southeast Asia, Latin America, and Africa. These studies can illuminate how digital technologies reshape cost structures and redefine the roles of Management Accountants within unique economic contexts. Complementing this, large-scale quantitative surveys across countries or industries are essential to statistically validate the newly proposed digital competency model. Mixed-methods approaches that combine case studies and surveys will be particularly effective in generating robust, context-sensitive evidence and in constructing a comprehensive roadmap for the evolving competencies of Management Accountants in the digital age.

Recommendations for Future Research

Based on the identified fragmentation within the literature, future research should shift from predominantly theoretical reviews toward rigorous, context-specific empirical investigations. To address the substantial geographical gaps, we explicitly recommend conducting in-depth qualitative case studies on pioneering organizations in developing countries (for example, within the banking or manufacturing sectors in ASEAN or Latin American nations). Such case studies should focus on on-the-ground dynamics illustrating how digital technologies reshape cost structures and transform the roles of Management Accountants within unique economic environments.

In addition, large-scale cross-country or cross-industry quantitative surveys are essential to test the proposed relational models between technology adoption and levels of digital competency. The objective is to statistically validate and produce a robust, empirically tested competency framework that can serve as a reference for accounting education institutions. Empirical research particularly studies adopting mixed-methods designs that combine surveys and case studies will be crucial in completing the roadmap for the transformation of Management Accountants' roles in the digital era.

Overall, this systematic review successfully synthesizes the existing body of knowledge and confirms three major research gaps. The most critical gap concerns the lack of empirical validation in developing countries and the ambiguity surrounding the required competencies. Therefore, future researchers should undertake qualitative case studies in Asia and Latin America, as well as large-scale quantitative surveys, to validate the newly proposed digital competency model.

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