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Digital transformation of organizations: Intelligence financial management system

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Abstract

This research aims to 1) synthesize the conceptual framework and 2) develop the architecture and evaluate its applicability. This paper outlines the architectural framework for the digital transformation of enterprises, specifically focusing on an intelligent financial management system. The research is synthesized, and a systematic review employs the PRISMA flow diagram. This system will utilize a financial management database that includes salary management, accounting management, fixed asset management, risk control, report management, financial analysis, and system administration. This framework will integrate advanced artificial intelligence techniques to improve operational efficiency, accuracy, and security in financial operations. It can improve risk assessment, elevate client contacts, and optimize economic decision-making processes, therefore aiding in the formation of organizational support, management supervision, operational plans, and administrative decisions, among other elements. The results showed that this architecture has an excellent level of suitability (mean = 4.63, standard deviation = 0.44). It demonstrates that entities employing advanced financial management systems to facilitate data storage mitigate inaccuracies and assist in the rapid, precise, and efficient analysis of data, which is an outcome of implementing digital transformation. This shift enhances decision-making processes and fosters a culture of accountability and transparency within organizations, ultimately driving sustainable growth and innovation.

Keywords: Digital transformation, Financial management system, Intelligence financial management system.

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1. Introduction

Digital transformation is crucial for organizations to improve the efficiency of their products, services, and decision-making processes. It underscores the significance of emerging technologies, concentrating on implementation, technology, methods, and human aspects while monitoring trends in digital transformation, especially in sectors like health, education, and sustainable energy [1]. The research analyzed the influence of digital transformation on human resource management strategies, specifically within the education sector, highlighting the necessity for organizations to enhance their HR competencies and expertise to attain organizational objectives successfully. The study highlights the intricate connection between the efficacy of digital transformation projects and their alignment with human resource strategy [2]. Digital transformation is crucial for enterprises to enhance quality, efficiency, and agility by utilizing advanced digital technology. A study examining how digital transformation affects internal control in businesses found a positive link between the level of digital transformation and the creation and effectiveness of internal controls, especially in markets that are becoming more competitive [3]. The multifaceted nature of digital transformation, characterized by its diversity, continuity, disruption, intensity, and complexity, underscores that it encompasses a highly intricate array of activities and presents considerable problems for enterprises. The research seeks to connect industry and academia by examining digital transformation innovation, utilizing expert insights. It underscores the necessity of ongoing study to design practical techniques for facilitating the transformation process and modifying approaches to enhance value in the digital transformation journey [4]. The obstacles firms encounter in digital transformation result from swift technical advancements. The objective is to examine the influence of organizational culture, digital culture, and digital literacy on employee attitudes towards digital transformation initiatives, asserting that cultivating a supportive business culture and improving employees' digital proficiency is crucial for successful digital transformation, subsequently affecting organizational performance and employee engagement [5]. The evolution of digital technologies underscores the necessity for both public and commercial sectors to enhance their creative processes for invention and innovation to adapt to the swiftly changing technological environment. It underscores the disparities in innovation adoption between the public and private sectors, indicating that the private sector has a greater propensity to accept technological change. The statement advocates for collaboration among various sectors to foster innovation, emphasizing that effective digital transformation in the public sector necessitates active engagement and backing from government agencies [6].

Financial management is a critical component of organizational management decision-making. Organizations can comprehend their current operational status, identify operational and management issues, and implement solutions by examining financial management. Financial information management has been elevated to a new level due to information technology's rapid development and big data's rapid growth [7]. The enterprise's financial management system underscores the necessity of reform to accommodate the market economy and achieve sustainable growth. It emphasizes the significance of a dependable financial management system in enhancing risk resistance and optimizing capital structure, all while maximizing value and profit [8]. Simultaneously, it underscores the improved financial transparency, operational efficiency, and decision-making associated with implementing financial management information systems [9]. The role of monetary administration in the enterprise is paramount to contemporary organizations. It can identify, prevent, and control accounting risks, which will facilitate the implementation of business policies and enhance economic benefits. It underscores the significance of a robust internal control system to guarantee the safety and integrity of the enterprise's assets, improving the enterprise's competitiveness and fostering its long-term and stable growth [10]. Relationship with the network of interdependent processes, which consists of four principles of financial management: planning, budgeting, forecasting, and monitoring, which emphasizes the importance of open communication and coordination among all parties involved in economic decision-making [11] is another crucial aspect that organizations give importance to and can lead to the success of the organization. This is an aspect that can lead to the success of the organization. The deployment of information technology systems within the business is the implementation of another essential role that is necessary. Using applications for financial management systems, which assist in managing and controlling financial and accounting documents, is vital. A significant amount of emphasis is placed on creating information systems to improve data management, storage, and translation into relevant information for users. This will increase efficiency and provide advantages over competitors [12]. The research objective are as follows:

1. To synthesize the conceptual framework.
2. To develop architecture and to evaluate the appropriateness.

2. Literature Review

2.1. Digital Transformation

Since its first conception, digital transformation has been the subject of extensive investigation. Despite the growing number of research studies conducted, there still needs to be a straightforward approach or consensus on a comprehensive framework to assist organizations in their efforts to undergo digital transformation. This complexity is further increased by the rapid advancements in digital technologies, which impact business models and necessitate ongoing research to handle the uncertainties present in this field [4]. Due to the proliferation of digital technology, business structures, industrial processes, and economic relationships are all undergoing significant transformations [13]. For instance, there are rapid changes in medical libraries due to digital technology, with a particular emphasis on the transition from traditional document collections to the management and preservation of medical data in digital form [14]. Integrating mobile bank arenas and transforming sports facilities into smart stadiums and arenas and improving the overall experience for organizers and spectators are among the many ways cutting-edge technologies are revolutionizing the global sports market, resulting in increased efficiency and growth [15]. University administrators must establish sustainable digital roadmaps due to the

digital transformation penetration of educational institutions. This entails effectively integrating sustainable features into strategies, technologies, processes, and practices to adapt to dynamic changes. Innovative methods for incorporating sustainable practices into an organization's digital design should be incorporated into roadmaps [16].

Digital transformation includes various essential elements that firms must embrace to succeed in the digital era. These components are frequently categorized into dimensions and sub-dimensions that facilitate the organization and prioritization of digital transformation initiatives. The elements of digital transformation can be classified into strategic, technological, organizational, and environmental domains, each essential for the effective execution of digital efforts, as demonstrated in Table 1.

Table 1.
Synthesizing the component of digital transformation.

Component	Specification	Synthesis
Business strategy and process	Business strategy and processes are paramount for digital transformation, emphasizing the necessity to align digital initiatives with business objectives and methods. Ensuring that digital transformation efforts comply with legal frameworks and agreements to mitigate risks and disputes is crucial.	Elkadi and El Tazi [17]; Martinelli and Fitzgerald [18] and Iannotta and Scarano [19]
Technology and innovation	A robust technological infrastructure is crucial to facilitate digital transformation at all phases, encompassing data delivery, data production, solution scaling, and intelligence. Utilizing a digital platform that enables service delivery, supply chain communication, and cost management influences organizational performance. Organizations must exhibit agility and flexibility in addressing internal and external innovations crucial for enabling digital transformation.	Han and Zheng [20]; Yang, et al. [21] and Junior, et al. [22]
Organizational side	Efficient project management methodologies are crucial for fostering corporate agility and guaranteeing the successful implementation of digital transformation initiatives. The engagement of stakeholders and participants is essential during the data generation phase to propel the transformation initiative. Digital transformation must prioritize enhancing the customer experience by utilizing digital tools to fulfill customer needs and expectations better while instituting robust leadership and governance to steer digital transformation efforts and ensure organizational accountability.	Iannotta and Scarano [19]; Han and Zheng [20]; Yang, et al. [21]; Junior, et al. [22] and Esteve-Mon, et al. [23]

Table 1 demonstrates that, although these components offer a comprehensive framework for digital transformation, it is crucial to acknowledge that each organization's specific needs and contexts may differ. Consequently, a customized approach that considers each organization's unique challenges and opportunities is essential for successfully implementing digital transformation.

2.2. Financial Management System

The traditional financial management system models have been transformed into contemporary approaches that underscore the significance of financial management in an organization. These approaches emphasize the importance of financial management by concentrating on aspects such as forecasting financial needs, acquiring necessary funds, making investment decisions, managing cash flow, and utilizing tools such as ratio analysis and investment evaluation to analyze financial results in greater detail [24]. The analysis of critical components, including planning, budgeting, forecasting, and monitoring, as well as the significance of open communication and strong leadership in financial decision-making, are essential for effective financial management [11]. It defines financial management as the process of organizing financing and asset management to achieve several primary objectives, including decision-making functions that are essential for ensuring the financial stability and economic progress of the company, including investment, financing, and asset management [25]. Internal control and financial management underscore that internal control systems can enhance the discovery, prevention, and mitigation of financial risks. It also tackles issues firms encounter, like insufficient risk awareness and deficient internal control mechanisms that obstruct effective financial management [10]. Financial management systems facilitate successfully managing an organization's assets, obligations, and income. It highlights the advantages for the firm, including expedited evaluation of financial data, enhanced reporting efficiency, and improved fraud detection. It tackles temporal limitations, financial restrictions, and the employees' need for more awareness within the business [26]. Transitioning from manual to automated systems necessitates employee adaptation to new workflows, enhancing financial transparency and accountability. This shift implies that real-time information availability will augment decision-making efficiency and foster ethical financial practices while ensuring compliance with regulatory mandates [9]. It underscores the interrelation of integrated financial management systems and public administration, including enhanced resource allocation, annual procurement data organization, and heightened user area requirements transparency, collectively fostering more effective public administration practices [27]. Effective financial management is crucial for an organization to utilize its assets to support its mission, highlighting the necessity for a financial management information system that delivers accurate, timely, and pertinent information to internal and external stakeholders. This system is crucial

for formulating educated judgments regarding financial strategies, policies, objectives, and operational financial plans. It underscores four fundamental components of efficient financial management: planning, budgeting, forecasting, and monitoring. These factors are crucial for enhancing financial performance, necessitating collaboration and transparent communication among all stakeholders in financial decision-making, resulting in improved resource management and organizational success [11]. The financial management system in the public sector is essential for ensuring economic and budgetary stability, particularly amid institutional changes. It underscores the necessity to improve the efficacy of financial and fiscal instruments to avert the escalation of public debt and budget deficits, which are crucial for sustaining macroeconomic stability and facilitating economic processes. Political instability is a contributing issue for public sector agencies [28]. The integrated financial management system enhances transparency in the demands of each user sector, facilitating improved oversight and accountability in the administration of public resources. This transparency enables citizens to oversee the execution of action plans and objectives put forth by government entities, thereby cultivating trust in the governance process. The system optimizes processes, resulting in a more efficient allocation of resources by offering real-time data on resource usage, thereby enabling informed decision-making and executing corrective actions to attain sustainability objectives within the region [27]. Financial management systems are utilized at universities to enhance financial planning, reinforce financial control, and increase the efficiency of financial management, thereby fostering the institution's sustainable and long-term development. The system employs computer network technology to automate accounting processes, supplanting conventional manual financial procedures, and encompasses functionalities such as data recording and statistical data visualization for enhanced financial management and reporting [29]. Financial management must encompass applications including capital budgeting, capital structure, and working capital management. These applications are crucial for efficient organizational management, allowing executives to make educated decisions on allocating and utilizing financial resources to optimize earnings and assure operational efficiency [24]. Implementing payroll management systems that automatically compute salaries will augment the organization's capacity to examine and refine the cash flow auditing process. It also implements the automation of accounting procedures using accounting system software while underscoring the significance of manual audits for precision [30]. Accounting information systems are utilized to enhance the efficiency of financial management by improving the accuracy and speed of recording transactions and verifying internal financial data, generating real-time financial reports, developing decision support systems, and integrating information technology with financial management strategies to enhance organizational efficiency [31]. Because financial management systems are crucial for properly utilizing national budgets, transparency is emphasized [32]. While highlighting the significance of open communication and effective leadership in financial decision-making, planning, budgeting, forecasting, and monitoring are all addressed [11]. The fundamental competitiveness of organizations will be enhanced by integrating modern information systems into financial management practices, suggesting that changes are necessary to adapt to the increasingly networked and information-based management modes [33].

Financial management is essential for enterprises' efficient operation and strategic planning. By showing the overall design framework of the financial management system, from the analysis of the above information, it can be understood that the economic system of the enterprise mainly covers the ledger module, accounting-related certification module, period-end asset module and economic report module. In addition, the financial management system of the enterprise also covers several core modules, such as the cash flow accounting module, salary verification and distribution module, economic table construction and decision analysis module, and natural asset management module [34]. As technology advances, the financial management requirements of diverse user groups are becoming increasingly nuanced. Consequently, to address user requirements, developing a financial management system that streamlines processes, enables real-time monitoring, verifies personnel data, ensures system and network security, facilitates reporting, fulfils user demands, and employs efficient technology is essential [35]. It is essential to guarantee the effective acquisition, allocation, and utilization of financial resources based on the criteria above. The primary objective is to enhance economic efficiency and transparency and mitigate investment risks, as outlined in Table 2.

Table 2.
Synthesizing the component of financial management system.

Component	Specification	Synthesis
Capital structure management	- It is imperative to raise capital to reduce the cost of capital and increase shareholder value to maintain financial stability and support growth initiatives. - Achieving a balance between risk and return by considering the organization's financial objectives, market conditions, and interest rates. - Generating financial statements that comprehensively understand the organization's financial position and performance. - Evaluating profitability, liquidity, and debt serviceability through financial analysis is beneficial. - Capital budgeting is the process of assessing and selecting long-term investment initiatives that are consistent with the organization's strategic objectives.	[31] and Ramzi, et al. [36]
Working capital management	- Evaluation of cash flow, risk, and anticipated returns of prospective projects to guarantee optimal deployment of financial resources. - Administration of current liabilities and assets, including inventory and receivables, to guarantee enough cash flow for operations.	[30] and Ramzi, et al. [36]

Component	Specification	Synthesis
	- Automating accounting operations and payroll systems can improve the efficiency of working capital management. - Administration of the organization's short-term assets and obligations to guarantee adequate cash for everyday operations.	
Financial decision making	- Establishing competitive advantage and enhancing audit quality. This procedure necessitates rational evaluation and empirical analysis to guarantee optimal financial management. - Robust leadership and transparent stakeholder communication are crucial for efficient financial decision-making.	[11] and Datu, et al. [37]
Technology integration	- Incorporating technology into financial management systems enhances efficiency through electronic data management and resource sharing. - Automating accounting operations and implementing sophisticated algorithms for financial early warning systems can enhance precision and mitigate the risk of economic catastrophes.	Zhou, et al. [38]

In addition to the elements listed in Table 2 it is crucial to consider the financial environment, which includes factors such as economic volatility, technological advancements, and regulatory changes that may impact financial management practices.

2.3. Intelligence Financial Management System

The literature analysis underscores the significance of corporate financial management as a crucial element of organizational operations directly associated with productivity and growth, highlighting the necessity for an efficient financial management system. Given the escalating intricacy of financial operations in the expanding economy and market, it is imperative to establish many financial management systems to facilitate corporate decision-making [38]. Due to contemporary economic and technological advancements, conventional financial management approaches must be updated. The development of intelligent financial management systems within organizations is propelled by the necessity to adjust to swift technological progress, requiring a transition to digital transformation and the incorporation of artificial intelligence as fundamental components in the evolution of these systems, which facilitate the transformation of business models and operations across various sectors, including finance, by introducing enhanced capabilities and efficiencies. Artificial intelligence in financial management systems facilitates enhanced data analysis, predictive modeling, and decision-making processes [39]. The theoretical foundation of artificial intelligence is a branch of computer science that concentrates on developing intelligent devices that can solve financial problems by simulating the human brain's thinking [40]. It emphasizes the significance of digital transformation in financial management, the necessity, challenges, and general paths of digital transformation in this field, and the necessity for organizations to enhance their competitiveness. The review identifies significant obstacles to digital transformation, such as the high risk of data leakage associated with digital platforms and the inadequate support in technology awareness and human resources. It underscores the necessity of comprehensive training mechanisms for financial personnel to adjust to these changes and address the lack of essential economic and technological skills [41]. Because of this, using artificial intelligence in intelligent financial management systems involves the analysis of enormous data sets in real time. This analysis identifies patterns and anomalies that may signal the presence of potential fraud, which can considerably improve the decision-making process [42]. It is possible to successfully improve operations and budget control through its utilization, which can greatly reduce the overhead expenses associated with management [43]. It helps enhance the usage of data, which increases the job efficiency of workers working in the financial sector and improves the security of services used for financial processing. According to another statement, these technologies can assist managers in making significant decisions on finances and budgets [44]. It addresses the concerns regarding the protection of data privacy as well as the requirement for training in human resources [45]. Simultaneously, it recognizes the necessity of enhancing the dependability and precision of financial management data [46]. It proposes that organizations adopt artificial intelligence technology and allocate resources to their administrators' and employees' ongoing professional development [47]]. In addition, educational institutions have implemented intelligent financial decision support systems to address the financial decision-making challenge within organizations. These systems offer predictive analysis and decision-making capabilities that facilitate the efficient retrieval and analysis of financial data, enabling organizations to make more effective strategic decisions and intensify risk prevention measures [48]. It promotes the inquiry of financial data by faculty, staff, and students, emphasizing the establishment of financial alert functions. This initiative is designed to enhance financial communication, thereby enhancing enterprise financial management's overall efficiency and information awareness level [49]. It also underscores the potential to improve financial resilience and facilitate informed decision-making [50]. The importance of accurately collecting and storing university data to enhance financial supervision's classification and decision-making process is underscored by establishing an intelligent financial supervision mechanism for colleges and universities to improve financial auditing and risk assessment capabilities [48]. The new era presents a challenge for college financial administrators, as it underscores the necessity of improving the management and allocation of financial resources to ensure the sustainable development of universities [51].

An intelligent financial management system extends the management accounting information development system with artificial intelligence. Management accounting is essential to modern accounting, and data helps execute management accounting ideas and practices. The development system must be carefully planned to set standards and guide organizations

in clean, efficient, and orderly accounting information administration. An intelligent financial management system can revamp all business operations and monitor each link in real time to combine the enterprise's commercial and economic activities. The improved data display helps internal and external management make more sensible and practical financial decisions [52]. The components can be delineated in Table 3 based on the features above.

Table 3.
Synthesizing the component of intelligence financial management system.

Component	Specification	Synthesis
Artificial intelligence technology	- Anthropomorphic decision-making mechanisms in financial management systems facilitate future evaluation and risk mitigation. - Financial counsel can enhance decision-making precision and efficacy, enabling users to make well-informed financial choices. - Anticipating financial trends and hazards helps rectify current deficiencies, enhancing the precision and dependability of economic projections. - Financial management through budgeting, cost control, and revenue data analysis to respond to market fluctuations.	Du [7]; Peng [39]; Chen [40]; Lei, et al. [53]; Wang [54]; Yan [55]; Guo and Rai [56] and Lai [57]
Risk and security management	- Intelligence agencies for financial risk mitigation. - Safeguarding stakeholders' interests and advancing sustainable finance. - Security protocols to avert unauthorized access and ensure client safety. - Risk management by providing early warning systems and predictive models that assist in identifying and mitigating potential financial threats.	Wang [54]; Jia, et al. [58] and Khrushch, et al. [59]
Efficiency of financial automation systems	- Assurance of data integrity and operational efficiency of systems, creating multi-index decision models to enhance the efficiency of financial operations. - Enhance customer experience by delivering individualized services and optimizing interaction efficiency via connected databases and communication networks. - Real-time monitoring offers early detection of potential financial crises and enhances financial resilience. - Minimizing manual financial tasks enhances operational efficiency. - Immediate financial oversight and automated settlement procedures.	Sitinjak, et al. [11]; Vardhini, et al. [50]; Jia, et al. [58] and Ramachandren, et al. [60]

Furthermore, intelligent financial management systems have limits that need to be addressed, such as their application at all levels to cover the entire business, investment in technology, and operational experience. These constraints are in addition to the factors described in Table 3.

2.4 PRISMA flow diagram

The systematic literature review aims to consolidate research on the digital transformation of organizations: intelligence financial management system. The study selection process is illustrated in the PRISMA flow diagram in Figure 1.

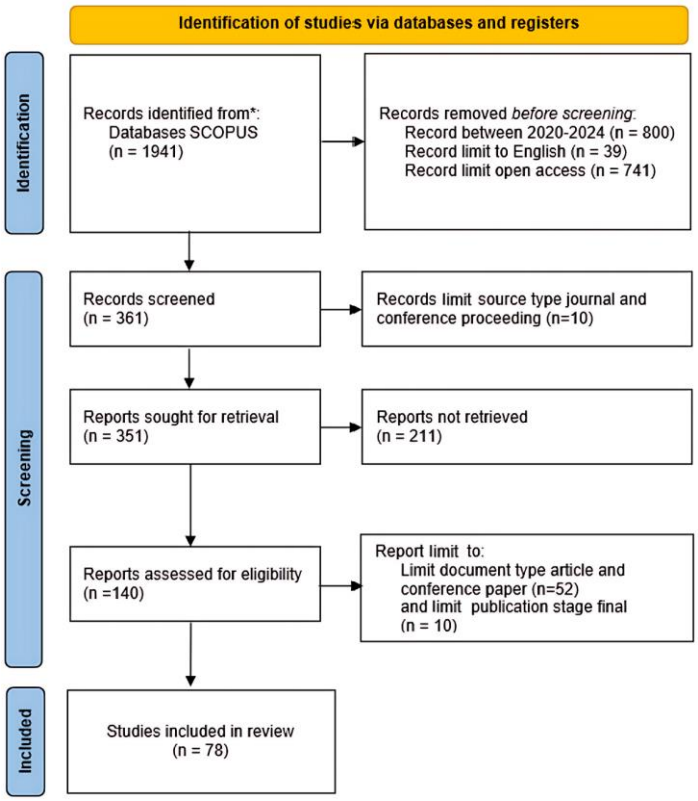

Figure 1.
The systematic reviews and meta-analyses (PRISMA).

According to the PRISMA flow diagram and methodology, the total number of studies incorporated into the review for the meta-analysis is 78.

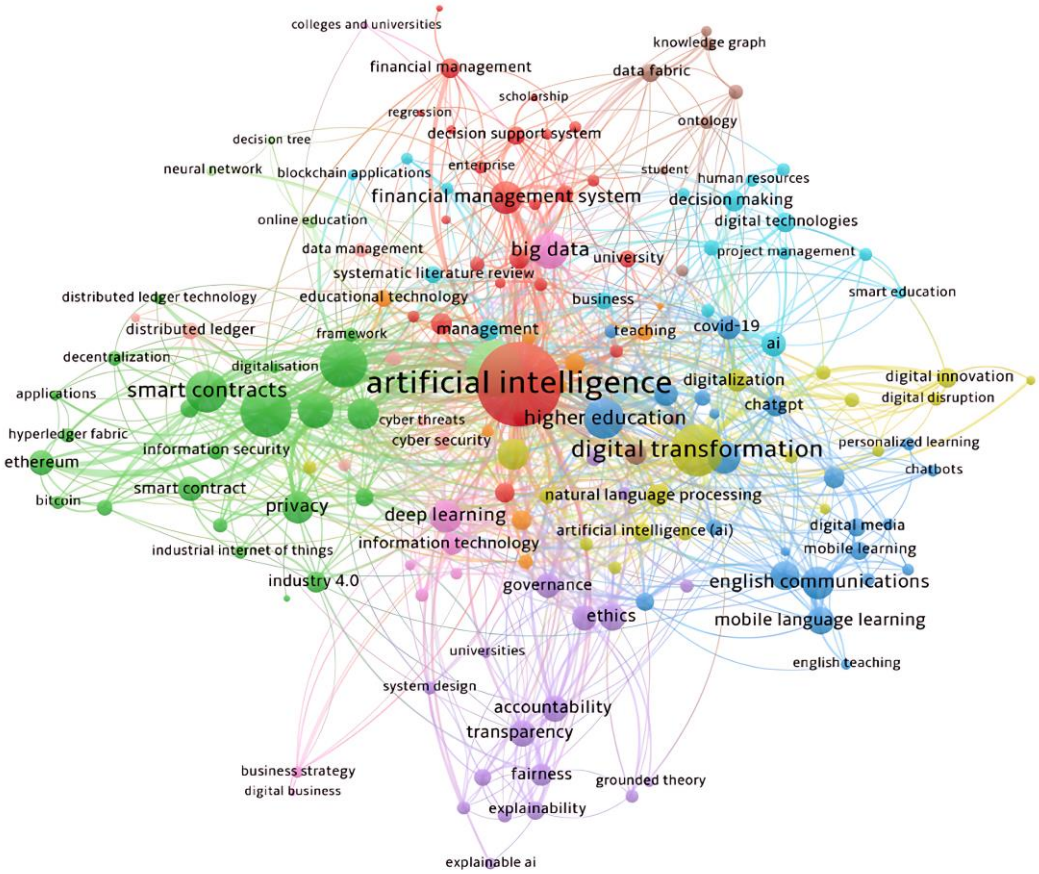

Figure 2.
The bibliometrics digital transformation of organizations: Intelligence financial management system.

3. Materials and Method

Following is an example of an intelligent financial management system that can be created as an architecture for an organization's digital transformation. This architecture can be developed based on the conceptual framework and the synthesis of the relevant theoretical processes.

1. Users consist of 4 main groups: (1) Financial officer, (2) Head of Finance, (3) Executives, and (4) Administrators. These four groups will be the primary users performing their assigned tasks.
2. The developed system can support various devices such as smartphones, tablet, laptop, and desktop computer. It can access data via the Internet, computer network, authentication, and computer client, which has an application programming interface as a medium connecting between "service users" and "service providers."
3. The financial management system database consists of salary management, accounting management, fixed assets management, risk control system, report management, financial analysis, and system management.
4. An intelligent financial management system is a system integrated with artificial intelligence technology to increase efficiency, accuracy, and security in financial operations. It can improve risk management, customer experience, and economic decision-making processes, which helps create organizational support, management control, operational and management decisions, etc.
5. Following the implementation of digital technology throughout the business, evaluation and reflection of the results will be carried out to provide feedback to all user groups. Finally, it is essential to make it possible for the organization to adjust to the shifting period, which will ultimately result in the work of all departments becoming more efficient and decreasing vulnerabilities. Organizations that can adapt to changes in digital technology will have a more significant competitive edge and will be able to generate further growth for the organization. This is because technology presently plays a substantial role in driving business.

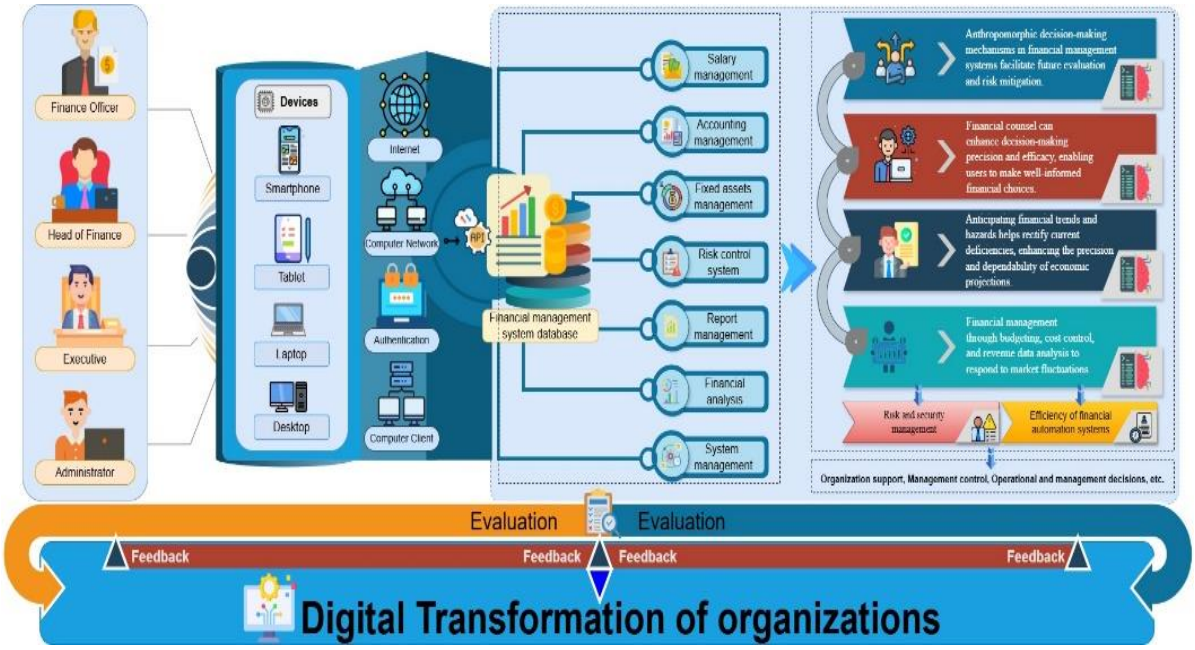

Figure 3.
The architecture digital transformation of organizations: intelligence financial management system.

4. Results and Discussion

The population consists of experts in artificial intelligence. They have worked in information technology for communication education and organization management, with at least five years of work experience, with a minimum of five years each. The sample comprises three experts in information technology for education, five in communication and one in corporate executives. Each has at least five years of work experience. The results of the assessment of the architecture by nine experts are presented in Table 4.

Table 4.
Results of the architecture assessment.

Assessment list		Mean	S.D.	Opinions
1.	User			
	1.1 Finance office	4.89	0.33	Excellent
	1.2 Head of finance	4.56	0.53	Excellent
	1.3 Executive	4.33	0.50	Good
	1.4 Administrator	4.89	0.33	Excellent
	Total	4.67	0.42	Excellent
2.	Device & Connection			
	2.1 Smartphone, tablet, laptop, and desktop	4.89	0.33	Excellent
	2.2 Internet, computer network, authentication, and computer client	4.89	0.33	Excellent
	2.3 API connects between server and clients	4.78	0.44	Excellent
	Total	4.85	0.37	Excellent
3.	Financial management system database			
	3.1 Salary management	4.33	0.50	Good
	3.2 Accounting management	4.89	0.33	Excellent
	3.3 Fixed assets management	4.56	0.53	Excellent
	3.4 Risk control system	4.78	0.44	Excellent
	3.5 Report management	4.33	0.50	Good
	3.6 Financial analysis	4.78	0.44	Excellent
	3.7 System management	4.89	0.33	Excellent
	Total	4.65	0.44	Excellent
4.	Technology management			
	4.1 Artificial intelligence	4.78	0.44	Excellent
	4.2 Risk and security management	4.56	0.53	Excellent
	4.3 Efficiency of financial automation system	4.44	0.53	Good
	4.4 Organization support	4.67	0.50	Excellent
	4.5 Management control	4.33	0.50	Good
	4.6 Operation and management decisions	4.22	0.44	Good
	Total	4.50	0.49	Good

Assessment list		Mean	S.D.	Opinions
5.	Digital transformation			
	5.1 Helps to improve the experience	4.44	0.53	Good
	5.2 Can increase efficiency and productivity	4.33	0.50	Good
	5.3 Reduce costs and control expenses	4.67	0.50	Excellent
	5.4 Improve processes to be efficient and effective	4.11	0.33	Good
	5.5 Use technology to play a role in creating a digital organization	4.89	0.33	Excellent
	5.6 Create collaboration in working together	4.67	0.50	Excellent
	5.7 Make communication in the organization effective	4.56	0.53	Excellent
	5.8 Reduce redundancy and reduce workload	4.22	0.44	Good
	Total	4.49	0.46	Good
	Total 1 - 5	4.63	0.44	Excellent

As listed in Table 4 the results of the assessment of the architecture of the digital transformation of organizations: intelligence financial management system, which is composed of five modules, when considering each module, it was found that for Module 1 (User), the overall picture is at an excellent level (mean = 4.67, S.D. = 0.42). Module 2, about device and connection, is excellent overall (mean = 4.85, S.D. = 0.37). Module 3, the financial management system database overall, is excellent (mean = 4.65, S.D. = 0.44). Module 4, the technology management overall, is good (mean = 4.50, S.D. = 0.49). Module 5, the digital transformation impact on the organization overall, is good (mean = 4.49, S.D. = 0.46).

5. Conclusion

The research results found that nine experts' application of this architecture to develop an intelligent financial management system evaluated the overall architecture at an excellent level (mean = 4.63, S.D. = 0.44). This can effectively tackle the digital metamorphosis of financial stewardship, promoting adaptability and augmenting competitiveness within the modern milieu. Traditional methodologies prove insufficient for handling the rapid proliferation of data and rivalry, necessitating the formulation and execution of strategies aimed at alleviating data-related risks. Organizations must embrace innovative technologies and analytical tools that enhance decision-making processes and foster a culture of continuous improvement and resilience in the face of evolving market demands.

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