



Review Article

Administrative sciences and human resources management

The influence of administrative thinking in knowledge management and innovation: a systematic review

La influencia del pensamiento administrativo en la gestión del conocimiento y la innovación: revisión sistemática

A influência do pensamento administrativo na gestão do conhecimento e inovação: revisão sistemática

Darwin Daniel Ordoñez Iturralde

Doctor of Education, Universidad Nacional Mayor de San Marcos (Peru), Master's Degree in International Business and Foreign Trade Management, Universidad de Guayaquil, ORCID: 0000-0003-2175-4488, E-mail: darwin.ordonez@unmsm.edu.pe, Guayaquil - Ecuador.

Received: October 7, 2024 Accepted: April 21, 2025

DOI: https://doi.org/10.22267/rtend.252602.283

How to cite this article: Ordoñez, D. (2025). The influence of administrative thinking in knowledge management and innovation: a systematic review. Tendencias, 26(2), 272-294. https://doi.org/10.22267/rtend.252602.283

Abstract

Introduction: This study examines how management thinking approaches can be integrated into knowledge management in order to promote innovation and improve operational efficiency in contemporary organizations. Objective: To analyze management strategies that optimize the use of organizational knowledge and highlight its impact on innovation and business performance. Methodology: A systematic literature review was conducted using the PRISMA method, collecting studies published between 2019 and 2023 in ScienceDirect, SpringerLink and Emerald Insight databases. Twenty-seven articles exploring the relationship between management thinking, knowledge management, innovation and operational efficiency were selected. Results: Findings show that collaborative strategies, such as communities of practice and learning, facilitate knowledge creation and transfer; while technological tools, such as knowledge management systems and data analytics, optimize decision making and improve operational efficiency. Conclusions: The integration of administrative approaches with advanced technologies enables organizations to increase their adaptability, foster continuous innovation and achieve greater operational efficiency. This highlights the need to promote a collaborative culture and invest in technologies that enhance the flow of organizational knowledge in order to ensure sustainable and competitive performance.

Keywords: active learning; culture of work; decision making; information technology; knowledge

transfer; critical thinking.

JEL: D80; D83; L21; M15; O31



Resumen

Introducción: Este estudio examina cómo los enfoques del pensamiento administrativo pueden integrarse en la gestión del conocimiento, con el fin de promover la innovación y mejorar la eficiencia operativa en organizaciones contemporáneas. Objetivo: Analizar estrategias administrativas que optimicen el aprovechamiento del conocimiento organizacional y destaquen su impacto en la innovación y el rendimiento empresarial. **Metodología:** Se realizó una revisión sistemática de literatura mediante el método PRISMA, recopilando estudios publicados entre 2019 y 2023 en las bases de datos ScienceDirect, SpringerLink y Emerald Insight. Se seleccionaron 27 artículos que exploran la relación entre pensamiento administrativo, la gestión del conocimiento, la innovación y la eficiencia operativa. **Resultados:** Los hallazgos muestran que estrategias colaborativas, como comunidades de práctica y aprendizaje, facilitan la creación y transferencia de conocimiento; mientras que herramientas tecnológicas, como los sistemas de gestión del conocimiento y el análisis de datos, optimizan la toma de decisiones y mejoran la eficiencia operativa. Conclusiones: La integración de enfoques administrativos con tecnologías avanzadas permite a las organizaciones incrementar su adaptabilidad, fomentar la innovación continua y alcanzar una mayor eficiencia operativa. Esto resalta la necesidad de promover una cultura colaborativa e invertir en tecnologías que potencien el flujo del conocimiento organizacional, con el fin de garantizar un desempeño sostenible y competitivo.

Palabras clave: aprendizaje activo; cultura del trabajo; tecnología de la información; toma de decisiones; transferencia de conocimientos; pensamiento crítico.

JEL: D80; D83; L21; M15; O31

Resumo

Introdução: Este estudo examina como as abordagens do pensamento gerencial podem ser integradas à gestão do conhecimento, a fim de promover a inovação e melhorar a eficiência operacional nas organizações contemporâneas. Objetivo: Analisar estratégias gerenciais que otimizam o uso do conhecimento organizacional e destacam seu impacto na inovação e no desempenho empresarial. Metodologia: Foi realizada uma revisão sistemática da literatura utilizando o método PRISMA, coletando estudos publicados entre 2019 e 2023 nas bases de dados ScienceDirect, SpringerLink e Emerald Insight. Foram selecionados 27 artigos que exploram a relação entre pensamento gerencial, gestão do conhecimento, inovação e eficiência

operacional. **Resultados**: Os resultados mostram que estratégias colaborativas, como comunidades de prática e aprendizagem, facilitam a criação e a transferência de conhecimento; enquanto ferramentas tecnológicas, como sistemas de gestão do conhecimento e análise de dados, otimizam a tomada de decisões e melhoram a eficiência operacional. **Conclusões**: A integração de abordagens administrativas com tecnologias avançadas permite que as organizações aumentem sua adaptabilidade, promovam a inovação contínua e alcancem maior eficiência operacional. Isso destaca a necessidade de promover uma cultura colaborativa e investir em tecnologias que aprimorem o fluxo de conhecimento organizacional, a fim de garantir um desempenho sustentável e competitivo.

Palavras-chave: aprendizagem ativa; cultura do trabalho; tecnologia da informação; tomada de decisões; transferência de conhecimentos; pensamento crítico.

JEL: D80; D83; L21; M15; O31

Introduction

Knowledge management (KM) is a key element in promoting innovation and optimizing efficiency within organizations. As Davenport and Prusak (1998) pointed out, in a competitive business environment, managerial thinking is essential for structuring and directing these processes. Drucker (1993) stated that this approach not only provides effective strategies for creating, sharing, and using knowledge, but also enables organizations to adapt to environmental changes and improve their performance.

Among the fundamental pillars of KM is collaborative learning, defined by Nonaka and Takeuchi (1995) as the process by which members of an organization act to generate new knowledge. Subsequent research, such as that of Dillenbourg (1999) and Johnson and Johnson (1989), demonstrated that collaborative learning surpasses individual learning by fostering the joint construction of knowledge, which is essential for innovation and continuous improvement.

To operationalize these ideas, Kagan and Kagan (1994) proposed the use of Collaborative Learning Techniques (CLT), which structure interactions between participants and enhace the effectiveness of knowledge management.

This study seeks to answer the following question: How can management thinking tools be applied in knowledge management to drive innovation and organizational efficiency? Through a systematic literature review based on the PRISMA method (Moher et al., 2009), practices and strategies that integrate managerial approaches and promote collaborative learning, guided by Senge (1990) theoretical framework. This paper explores how these methods optimize the creation, sharing, and use of knowledge in collaborative environments.

Antecedents

The analysis of managerial thinking as applied to Knowledge Management (KM) has evolved significantly, shaped by the contributions of prominent theorists. In 1979, Mintzberg emphasized that knowledge management is a social practice based on judgment and intuition, particularly relevant in dynamic business environments. A decade later, Senge (1990) popularized the concept of the learning organization, introducing five key disciplines that form the basis of organizational learning: systems thinking, team learning, shared vision, mental models, and personal mastery.

In the 1990s, Drucker (1993) identified knowledge as the most valuable resource in post-capitalist society, emphasizing that effective leadership must promote an organizational culture oriented towards learning and collaboration. Nonaka and Takeuchi (1995) developed the SECI model, which describes how tacit and explicit knowledge continuously transform into one another, laying the foundational framework for understanding how organizations generate and manage knowledge.

Davenport and Prusak (1998) introduced a strategic perspective, arguing that KM relies not only on human factors—such as organizational culture and leadership—but also on structured processes for identifying and leveraging knowledge. Wenger and Snyder (2000) complemented this view by introducing the concept of communities of practice, highlighting their role in organizational learning and adaptability.

More recently, authors such as Schein (2010) have highlighted the importance of organizational culture in KM effectiveness. Edmondson (2019), meanwhile, emphasized psychological safety as a fundamental condition for fostering collaboration, continuous learning, and innovation within organizations.

Furthermore, authors such as Polanyi (2009); Wiig (1993), and Argyris and Schön (1996) addressed fundamental topics such as tacit knowledge, organizational learning, and continuous reflection. These contributions established a theoretical framework that now allows us to analyze how managerial thinking can transform KM into a driver of innovation and operational efficiency (Table 1).

Table 1 *Main theoretical contributions to Administrative Thought in Knowledge Management*

Authors	Main contribution						
Polanyi	Introduction of the concepts of tacit and explicit knowledge as						
(1966/2009)	foundations for decision making.						
Mintzberg (1979)	Conception of knowledge management as a social practice dependent or						
	judgment and experience.						
Senge (1990)	Development of the learning organization model, integrating collective						
	learning and systemic thinking.						
Drucker (1993)	Identification of knowledge as a key strategic resource in the post-						
	capitalist society.						
Wiig (1993)	Proposed alignment of knowledge with organizational objectives to						
	improve efficiency.						
Nonaka and	Formulation of the SECI model, which describes how knowledge is						
Takeuchi (1995)	generated and transformed in organizations.						
Argyris and Schön	Introduction of the theory of organizational learning, differentiating						
(1996)	between single-loop and double-loop learning.						
Davenport and	Conceptualization of knowledge management as a strategic process						
Prusak (1998) oriented to the use of human knowledge.							
Wenger and Snyder	Establishment of communities of practice as a mechanism for innovation						
(2000)	and collective learning.						
Schein (2010) Recognition of leadership and organizational culture as pillars of							
	knowledge management.						
Edmondson (2019)	Linking psychological safety and collaboration, promoting a favorable						
	environment for innovation.						

Source: Own elaboration based on the authors cited.

Table 2 categorizes the practical applications of the theories presented in Table 1, demonstrating how management thinking translates into concrete strategies that foster organizational learning, innovation, and operational efficiency. Each category reflects how theoretical concepts are implemented in real-world contexts, whether using communities of practice, data analysis tools, or methodologies such as Lean Management.

Table 2 *Application of management thinking in knowledge management*

Category	Description	Examples	Authors	
Knowledge	Administrative techniques to	Communities of	Davenport and	
management strategy	create, store and distribute	practice, databases	Prusak (1998)	
	knowledge			
Organizational	Ability to acquire, process and	Mentoring, project-	Senge (1990), Garvin	
learning	apply knowledge efficiently.	based learning	(1993)	
Innovation and	Application of management	Innovation	Nonaka and Takeuchi	
creativity	thinking to promote	laboratories,	(1995), Drucker	
	organizational innovation	brainstorming	(1993)	
Operational	Optimization of processes and	Lean Management,	Ohno (1988),	
efficiency	resources to improve	Six Sigma	Hammer y Champy	
	knowledge management		(1994)	
Data-based decision	Use of data analysis for	Big data, gestion	Davenport (2014)	
making	informed decisions	dashboards		
Collaborative culture	llaborative culture Creation of environments that		Senge (1990),	
	promote knowledge exchange	tools	Edmondson (2019)	
	and teamwork.			

Source: Own elaboration.

Methodology

The PRISMA (Preferred Reporting Items for Systematic Reviews and Meta-Analyses) method was used to ensure both transparency and quality in the systematic literature review. The temporal and conceptual trends within the selected studies were determined through a bibliometric analysis performed using VOSviewer software.

The search for relevant literature was carried out in three academic databases: ScienceDirect, SpringerLink, and Emerald Insight. Keywords such as *Administrative thinking, Knowledge management, Efficiency, and Organizational learning*, were combined using Boolean operators in the following equation:

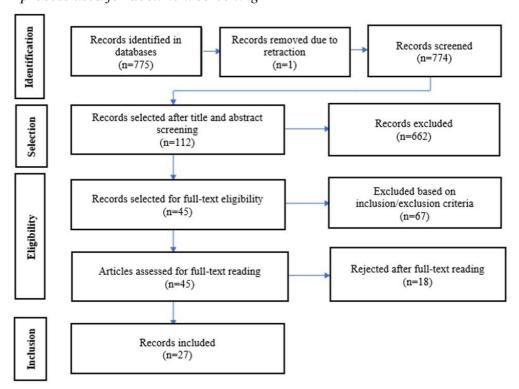
(Administrative thinking OR Knowledge management) AND Efficiency AND Organizational learning.

This combination was chosen to ensure that the retrieved studies were aligned with the research objective, covering both administrative approaches and aspects related to efficiency and organizational learning. The study selection process is shown in Figure 1.

Regarding the inclusion and exclusion criteria, only peer-reviewed, open-access articles published between 2019 and 2023 were considered to ensure data relevance and quality. Conference papers were excluded, focusing solely on original research studies directly addressing that addressing the research objective.

Figure 1

PRISMA process used for document screening

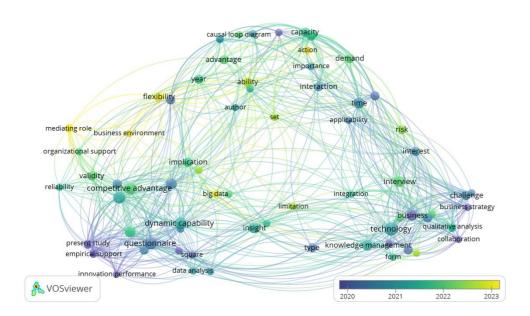


Source: Own elaboration.

Results

Figure 2 ilustrates the temporal evolution of the key terms identified in the analyzed literature between 2019 and 2023. The most recent, highlighted in yellow, such as "organizational support" and "big data," reflect a growing interest in advanced technologies and approaches related to organizational adaptability. On the other hand, established terms such as "knowledge management" and "competitive advantage" maintain a central position in the network, consolidating themselves as fundamental pillars in the analyzed studies. This demonstrates a transition toward greater interaction between technology, strategy, and knowledge management.

Figure 2 *Temporal distribution of key terms in the analyzed literature*



Source: Own elaboration.

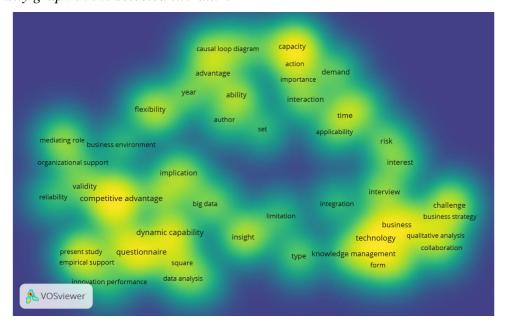
Although some of the reviewed documents were published outside the 2019-2023 period, the bibliometric analysis with VOSviewer identified key terms and relationships primarily between those years. This could be due to the relevance and co-occurrence of these terms in recent literature, indicating a thematic concentration in recent years.

In addition to the temporal analysis, a keyword density graph was generated, represented

in Figure 3. This graph identified the most frequent keywords in the selected studies. The areas with the highest density, represented in yellow, highlight core concepts such as knowledge management, competitive advantage, technology, and dynamic capability, terms that reflect the strong interdependence between knowledge management, dynamic capabilities, and advanced technologies. In contrast, terms with lower density, such as organizational support and casual loop diagram, suggest emerging or less-explored approaches in this field.

Figure 3

Keyword density graph in the selected literature



Source: Own elaboration.

The reviewed studies were grouped by year, from 2019 to 2023, to provide a time perspective on the evolution of research in this field. The results shown in Table 3 detail the records identified by each database: n=50 in ScienceDirect, n=60 in SpringerLink, and n=665 in Emerald Insight, for a total of n=775 records. After removing one retracted article, n=774 titles and abstracts were evaluated, selecting n=112 for further review. Finally, inclusion and exclusion criteria were applied, resulting in n=45 articles reviewed in depth, of which n=27 were considered relevant to the study objective.

 Table 3

 Results of the search for open access articles

Database / Years	2019	2020	2021	2022	2023	Total
ScienceDirect	5	6	4	14	21	50
SpringerLink	5	13	12	5	25	60
Emerald Insight	48	86	113*	168	250	665
Total	58	105	129	187	296	775

Note: * One article was withdrawn due to being retracted.

Source: Own elaboration.

The 27 selected articles (Table 4) provide a detailed look at how management thinking approaches can be integrated into knowledge management to promote organizational efficiency and foster collaborative innovation. These studies, in addition to reaffirming established trends such as the relevance of knowledge management, highlight the growing interest in technological areas and approaches that facilitate adaptability in dynamic organizational ecosystems.

 Table 4

 Summary of studies included in the review and their relationship with knowledge management

0 0
in Findings
engthens resilience to
asters and climate
ents
timizes innovation
formance
ves innovation and
proves organizational
ectiveness
1

SEM)

4	Camarinha et	Study	Not	Collaborative	Enables digital
	al. (2019)	review	aplicable	networks	transformation
5	Dairo et al.	Qualitativ	31	IT-strategy	Increases effectiveness in
	(2021)	e	participants	alignment	crisis contexts
6	Farnese et al.	Surveys	372	SECI model	Strengthens innovation
	(2019)		employees,		capacity and
			466 health		performance
			sector		
7	Farzaneh et al.	Longitudi	Pharmaceuti	Intellectual	Stimulates innovation
	(2022)	nal	cal industry	capital, dynamic	ambidexterity
				capabilities	
8	Gandrita	Qualitativ	218	Strategic	Favors talent retention
	(2023)	e	employees	planning,	
				management	
9	Gede and	SEM	365	Strategic	Increases organizational
	Huluka (2023)		employees	alignment, goal	effectiveness
			(Ethiopian	clarity	
			universities)		
1	Hansen et al.	Literature	Not	Learning	Promotes responsible
0	(2020)	review	aplicable	organization,	innovation
				innovation	
1	Hetemi et al.	Qualitativ	6 IT	Collaborative	Aligns and optimizes key
1	(2022)	e	companies	work in IT	IT knowledge
1	Husain et al.	SEM	1350 (IT	Flexibility,	Drives innovation in the
2	(2024)		sector)	organizational	service sector

				learning	
1	Imran et al.	Quantitati	638	Organizational	Strengthens work
3	(2020)	ve	(Pakistan	support, thriving,	engagement
			services	flourishing	
			sector)		
1	Kucharska and	SEM	729 (IT	Tacit knowledge	Significantly influences
4	Erickson		USA and		innovation processes
	(2023)		Poland)		
1	Linnéusson et	System	Health unit	Systems thinking,	Accelerates development
5	al. (2022)	modeling	in Sweden	organizational	of innovative health
				culture	solutions
1	López et al.	Quantitati	131	Organizational	Facilitates knowledge
6	(2021)	ve	knowledge	integration	transfer beyond
			relationships	mechanisms	geographic constraints
			(MNCs)		
1	McNab et al.	Qualitativ	NHS	Systems thinking,	Optimizes safety
7	(2023)	e	Scotland	quality	management in
			staff		healthcare
1	Mikalef et al.	Multiple	27 European	Big data, dynamic	Organizational inertia
8	(2021)	case study	companies	capabilities	acts as barrier to big data
					adoption
1	Pisoni et al.	Review	Financial	Knowledge	Enhances decision-
9	(2023)	and case	companies	management,	making in FinTech sector
		studies		decision-making	
2	Ringberg et al.	Qualitativ	B2B	Technology and	Encourages incremental
0	(2019)	e	companies	mindset	and radical innovation
2	Rowe et al.	Qualitativ	31 senior	Leadership	Strengthens leaders'
			leaders		confidence and self-

1	(2023)	e	(UK)	development	efficacy
2	Tobin et al.	Mixed	42 docs, 104	Public health	Strengthens evidence-
2	(2022)	design	surveys, 17	decision-making	based decision-making
			interviews		through collaboration
			(AU)		C
			,		
2	Venkatraman	Grounded	Not	Knowledge	Enhances tacit and
3	and	theory	aplicable	management,	explicit knowledge
	Venkatram			communities of	
	(2018)			practice	
				-	
2	Wendra et al.	PLS	297 garment	Dynamic	Increases innovation
4	(2019)		companies	capabilities,	performance
			(Indonesia)	intellectual capital	
2	Xuecheng et	SEM	287	Employee	Improves employee
5	al. (2022)		employees	retention, job	retention and satisfaction
			(Chinese	satisfaction	
			SMEs)		
	*7 1	A N 400	200		G. L. C.
2	Yang and	AMOS	380	Organizational	Stimulates creativity
6	Zhou (2022)	and	(technology	support,	through self-efficacy
		MPLUS	firms)	innovative self-	development
				efficacy	
	Yoshikuni et	PLS-SEM	191 firms	Dia data dynamia	Boosts innovation
		LLO-9EM		Big data, dynamic	
7	al. (2023)		(various	capabilities	capacity through big data
			industries)		use

Source: Own elaboration.

Discussion

To address the research question, it is crucial to integrate diverse theoretical and empirical perspectives on knowledge management, as well as its impact on innovation and organizational efficiency.

Systemic thinking is presented as a central axis in the management of infrastructures and dynamic systems. Hansen et al. (2020), drawing on Senge (1990), highlight how the transversal integration of knowledge drives sustainable innovation by enabling an understanding of the relationships between organizational processes. McNab et al. (2023) and Hansen et al. (2020) reinforce this view by pointing out that this approach facilitates strategic adaptation in complex environments, while Acuña and Sánchez (2023) associate it with the flexibility and resilience of infrastructures in the face of socioeconomic changes and external events. Ali et al. (2021) and Wendra et al. (2019) expand this framework by associating it with the management of dynamic capabilities and intellectual capital, key elements for fostering both incremental and exploratory innovation. In this sense, it is recognized that the adaptive capacity of organizations depends not only on knowledge management, but also on the implementation of strategies that promote flexible and collaborative structures. Farzaneh et al. (2022) emphasize the importance of balancing the exploitation of current resources with the exploration of new opportunities, a strategy that allows organizations to remain competitive in changing environments. In the technological field, Ringberg et al. (2019) relate this balance with improvements in products and processes, highlighting strategic flexibility as an essential component in the face of uncertainty.

Sustainable performance assessment complements these perspectives by providing tools that allow organizational strategies to be aligned with sustainable practices. Medne and Lapina (2019) argue that indicators focused on sustainable processes facilitate continuous improvement. For their part, Feil et al. (2019) incorporate the concept of the Triple Bottom Line, which integrates economic, social, and environmental metrics to evaluate organizational performance. However, it is important to consider the challenges of implementing sustainable practices in business contexts with limited resources, which requires a balance between sustainability and operational efficiency. In this context, the proposals by Linnéusson et al. (2022) and Tobin et al. (2022) provide practical solutions by employing causal loop diagrams and leverage points, tools

that optimize decision-making and facilitate the prioritization of strategic actions.

Knowledge management and its interaction with internal collaboration are identified as key drivers of efficiency and innovation. El Massi and Hamri (2023) underscore its relevance in dynamic business environments, pointing out that it facilitates the organization, distribution, and transfer of information, essential aspects for effective decision-making. López et al. (2021) highlight that formal mechanisms such as interdepartmental communication reduce internal friction and improve knowledge transfer in multinationals. Mancuso et al. (2024) complement this perspective by pointing out that data-driven B2B platforms support the integration of key stakeholders and generate value through collaborative management. Dairo et al. (2021) add that coherence between technological and business strategies enhances operational efficiency and innovative capacity. Furthermore, Gede and Huluka (2023) and Gandrita (2023) emphasize the importance of constant feedback to ensure strategic alignment and strengthen organizational cohesion. This approach also contributes to improving talent retention, as also underlined by Amushila and Bussin (2021) and Xuecheng et al. (2022).

Organizational support plays a crucial role in promoting employee engagement, as well as stimulating creativity and innovation. Husain et al. (2024) and Chen et al. (2024) agree that an organizational environment that promotes flexibility and continuous learning facilitates both incremental and radical innovation, accelerating processes and increasing competitive advantage. Yang and Zhou (2022) along with Imran et al. (2020) expand on this idea by pointing out that the support perceived by employees positively impacts their well-being and skill development, thus fostering their creativity and performance. Likewise, strengthening an organizational culture that promotes psychological safety also becomes an essential factor in maximizing employee engagement and collective performance.

Communities of practice (CoP) are a key component of knowledge management, especially in collaborative contexts. From the initial studies by Davenport and Prusak (1998); Brown and Duguid (1991); Wenger and Snyder (2000) to recent analyses such as that of Zamiri and Esmaelli (2024), their capacity to facilitate the transfer of tacit and explicit knowledge has been highlighted. Venkatraman and Venkatraman (2018) and Awais et al. (2023) link these communities with strategic flexibility, allowing organizations to adapt to changing environments through efficient resource allocation. In parallel, Li and Jhang (2010) analyzed the challenges associated with free-riding within CoPs, proposing that investment in technology and appropriate

The influence of administrative thinking in knowledge management and innovation: a systematic review Darwin Daniel Ordoñez Iturralde

incentives improves cooperation and optimizes knowledge sharing; while Rossignoli et al. (2024) and Rowe et al. (2023) explore their impact on SMEs and organizational contexts characterized by high staff turnover, emphasizing how they preserve organizational knowledge and promote collaboration. These communities, when well-structured and with adequate

institutional support, enable knowledge transfer and the development of innovative solutions.

In the domain of knowledge transformation, Nonaka and Takeuchi (1995) SECI model remains relevant. Betancur et al. (2022) and Farnese et al. (2019) highlight how converting tacit knowledge into explicit knowledge is essential for organizational innovation and competitiveness. Kucharska and Erickson (2023) emphasize that fostering a culture that values tacit knowledge can promote disruptive innovation, while Obeidat (2019) demonstrates that integrating information technologies into the SECI model enhaces knowledge transfer, particularly in sensitive sectors such as healthcare.

The use of information technologies and big data have transformed KM since Wiig (1993) approaches. Hetemi et al. (2022) and Camarinha et al. (2019) point out that collaborative practices and networks in Industry 4.0 increase organizational agility and sustainability. Yoshikuni et al. (2023) and Mikalef et al. (2021) highlight that the dynamic capabilities associated with big data allow for the optimization of resources, the identification of opportunities, and the improvement of real-time decision-making.

Finally, tools such as dashboards are essential for achieving strategic alignment. Pisoni et al. (2023) and Reinking et al. (2020) demonstrate how these resources increase organizational performance by allowing managers to monitor key metrics and align strategic objectives with daily operations.

It should be noted that the reviewed studies have certain limitations, such as the use of samples restricted to specific sectors or regions (e.g., banking, technology, pharmaceuticals, Iraq, China, Pakistan), which could limit the generalizability of the results. Furthermore, some studies are based on theoretical frameworks without robust empirical support, which may affect the validity of the proposed models. Furthermore, several findings were obtained in the context of the COVID-19 pandemic, which could influence their applicability in more stable scenarios.

In this regard, future research could focus on expanding regional diversity; strengthening

empirical evidence through longitudinal studies that evaluate the sustainability of administrative strategies; and analyzing the impact of digital transformation and advanced technologies on knowledge management in specific sectors such as healthcare and education, which have unique characteristics.

Conclusions

This study explored how managerial thinking approaches can be integrated into knowledge management (KM) to drive innovation and improve organizational efficiency. The relevance of this research lies in highlighting the need for organizations to adapt their KM strategies to an environment characterized by constant transformations, accelerated technological advances, and increasing global competition. Therefore, this analysis not only provides a better understanding of these dynamics but also offers a conceptual and practical basis for organizations to face these challenges and develop resilience to change.

First, it highlights that managerial approaches allow KM to be structured to transform tacit information into explicit knowledge. This process fosters the creation of new knowledge and the generation of organizational innovation, while improving operational efficiency. Social and collaborative practices within organizations are essential for fostering knowledge transfer and adaptability in highly competitive and dynamic environments.

Second, organizational culture and leadership play a fundamental role in the success of KM strategies. A culture that promotes collaboration, psychological safety, and continuous learning creates an environment conducive to innovation and the strengthening of organizational processes. Furthermore, committed and strategic leadership facilitates alignment between institutional objectives and KM practices, strengthening both internal cohesion and collective performance.

Furthermore, emerging technologies, such as dashboards, big data analytics systems, and collaborative platforms, were identified as catalysts for optimizing decision-making and accelerating innovation processes. These tools not only make it possible to leverage large volumes of data but also enhance organizational adaptability by facilitating real time responses to environmental changes.

Finally, the integration of administrative approaches with support technologies should not be considered as an operational practice, but rather as a comprehensive strategy to strengthen organizational resilience and enhance innovative capacity. Organizations that invest in fostering a learning culture, consolidating internal collaboration, and adopting advanced technologies will be better positioned to meet the demands of a globalized market, thereby ensuring long-term competitiveness and sustainability.

In terms of contributions, this study provides a solid foundation for the application of administrative approaches to knowledge management, offering conceptual tools to guide strategic decision-making. The findings enabled the identification of specific actions that can translate into tangible improvements in innovation, operational efficiency, and organizational adaptability. These actions include strengthening internal collaboration, the strategic use of analytics technologies, and the promotion of continuous learning, all of which are particularly useful for designing management policies, training programs, and more resilient organizational structures.

Ethical considerations

This research did not require ethical approval, as it was based on a review of existing literature.

Source of financing

Article funded with the author's own resources.

References

- (1) Acuña, N. & Sánchez, M. (2023). Integrating systems thinking and flexibility in infrastructure management. Innovative Infrastructure Solutions, 8(144). https://doi.org/nkhf
- (2) Ali, M. A., Hussin, N., Haddad, H., Alkhodary, D. & Marei, A. (2021). Dynamic capabilities and their impact on intellectual capital and innovation performance. Sustainability, 13(18), 10028. https://doi.org/gv58g6

- (3) Amushila, J. & Bussin, M. (2021). The effect of talent management practices on employee retention at the Namibia University of Science and Technology: middle-level administration staff. SA Journal of Human Resource Management, 19(485). https://doi.org/nkhg
- (4) Argyris, C. & Schön, D. A. (1996). Organizational learning II: theory, method, and practice. Addison-Wesley Publishing Company.
- (5) Awais, M., Ali, A., Khattak, M. S., Arfeen, M. I., Chaudhary, M. A. & Syed, A. (2023). Strategic flexibility and organizational performance: mediating role of innovation. Sage Open, 13(2). https://doi.org/nkhh
- (6) Betancur, J. H., Rodríguez, G. D., Rave, E. D. y Moncada, E. A. (2022). Gestión del conocimiento en 10 empresas colombianas siguiendo el modelo Nonaka y Takeuchi: Estudio de casos múltiples entrelazados. Cuadernos de Administración (Universidad del Valle), 38(74), e2311740. https://doi.org/nkhd
- (7) Brown, J. S. & Duguid, P. (1991). Organizational learning and communities-of-practice: toward a unified view of working, learning, and innovation. Organization Science, 2(1), 40–57. https://doi.org/d8cwcn
- (8) Camarinha, L. M., Fornasiero, R., Ramezani, J. & Ferrada, F. (2019). Collaborative networks: a pillar of digital transformation. Applied Sciences, 9(24), 5431. https://doi.org/ghj75b
- (9) Chen, X., Xie, H. & Zhou, H. (2024). Incremental versus radical innovation and sustainable competitive advantage: a moderated mediation model. Sustainability, 16(11), 4545. https://doi.org/nkhj
- (10) Dairo, M., Adekola, J., Apostolopoulos, C. & Tsaramirsis, G. (2021). Benchmarking strategic alignment of business and IT strategies: opportunities, risks, challenges and solutions. International Journal of Information Technology, 13, 2191–2197. https://doi.org/nkhk
- (11) Davenport, T. (2014). Big data @ work. dispelling the myths, uncovering the opportunities. Harvard Business Review Press. https://tinyurl.com/4aj7cham
- (12) Davenport, T. H. & Prusak, L. (1998). Working knowledge: how organizations manage what they know. Harvard Business School Press. https://tinyurl.com/ybbsn3cy
- (13) Dillenbourg, P. (1999). What do you mean by collaborative learning? In P. Dillenbourg. (Ed.), Collaborative learning: Cognitive and computational approaches (pp. 1 19). Elsevier. https://telearn.hal.science/hal-00190240v1

- (14) Drucker, P. (1993). Post-capitalist society. HarperBusiness. https://doi.org/10.4324/9780080938257
- (15) Edmondson, A. (2019). The fearless organization: creating psychological safety in the workplace for learning, innovation, and growth. John Wiley & Sons. https://tinyurl.com/bdemd7fd
- (16) El Massi, K. & Hamri, H. M. (2023). The impact of knowledge management on organizational performance. International Journal of Accounting, Finance, Auditing, Management and Economics, 4(6-1), 437 450. https://tinyurl.com/5hb4unxt
- (17) Farnese, M. L., Barbieri, B., Chirumbolo, A. & Patriotta, G. (2019). Managing knowledge in organizations: a Nonaka's SECI model operationalization. Frontiers in Psychology, 10, 2730. https://doi.org/ghs879
- (18) Farzaneh, M., Wilden, R., Afshari, L. & Mehralian, G. (2022). Dynamic capabilities and innovation ambidexterity: the roles of intellectual capital and innovation orientation. Journal of Business Research, 148, 47-59. https://doi.org/gqhw4c
- (19) Feil, A. A., Schreiber, D., Haetinger, C., Strasburg, V. J. & Barkert, C. L. (2019). Sustainability indicators for industrial organizations: systematic review of literature. Sustainability, 11(3), 854. https://doi.org/gnchnk
- (20) Gandrita, D. M. (2023). Improving strategic planning: the crucial role of enhancing relationships between management levels. Administrative Science, 13(10), 211. https://doi.org/nkhm
- (21) Garvin, D. A. (1993). Building a Learning Organization. Harvard Business Review, 71(4), 78-91. https://tinyurl.com/3znbfy7z
- (22) Gede, D. U. & Huluka, A. T. (2023). The impact of strategic alignment on organizational performance: the case of Ethiopian universities. Cogent Business & Management, 10(2), 2247873. https://doi.org/nkhn
- (23) Hammer, M. y Champy, J. (1994). Reingeniería. olvide lo que usted sabe sobre cómo debe funcionar una empresa. ¡casi todo está errado! Norma. https://tinyurl.com/4f5wt8us
- (24) Hansen, J. Ø., Jensen, A. & Nguyen, N. (2020). The responsible learning organization: can Senge (1990) teach organizations how to become responsible innovators? The Learning Organization, 27(1), 65-74. https://doi.org/gjqq24
- (25) Hetemi, E., Pushkina, O. & Zerjav, V. (2022). Collaborative practices of knowledge work in IT projects. International Journal of Project Management, 40(8), 906-920. https://doi.org/gq623n

- (26) Husain, Z., Dayan, B. & Chaudhry, I. S. (2024). Roles of organizational flexibility and organizational support on service innovation via organizational learning a moderated mediation model. Journal of Open Innovation: Technology, Market, and Complexity, 10(3), 100367. https://doi.org/nkhp
- (27) Imran, M. Y., Elahi, N. S., Abid, G., Ashfaq, F. & Ilyas, S. (2020). Impact of perceived organizational support on work engagement: mediating mechanism of thriving and flourishing. Journal of Open Innovation: Technology, Market, and Complexity, 6(3), 82. https://doi.org/10.3390/joitmc6030082
- (28) Johnson, D. W. & Johnson, R. T. (1989). Cooperation and competition: theory and research (2.a ed.). Interaction Book Company. https://searchworks.stanford.edu/view/10033071
- (29) Kagan, S. & Kagan, M. (1994). Cooperative learning (2.a ed.). Kagan Publishing.
- (30) Kucharska, W. & Erickson, G. S. (2023). Tacit knowledge acquisition & sharing, and its influence on innovations: A polish/US cross-country study. International Journal of Information Management, 71, 102647. https://doi.org/nkhr
- (31) Li, Y.M. & Jhang. Li, J.H. (2010). Knowledge sharing in communities of practice: a game theoretic analysis. European Journal of Operational Research, 207(2), 1052-1064. https://doi.org/dmsk77
- (32) Linnéusson, G., Andersson, T., Kjellsdotter, A. & Holmén, M. (2022). Using systems thinking to increase understanding of the innovation system of healthcare organisations. Journal of health organization and management, 36(9), 179–195. https://doi.org/gqf944
- (33) López, P., Cruz, J., Navas, J. E. & Perona, M. M. (2021). Organizational integration mechanisms and knowledge transfer effectiveness in MNCs: the moderating role of cross-national distance. Journal of International Management, 27(4), 100872. https://doi.org/nkhs
- (34) Mancuso, I., Messeni, A. & Panniello, U. (2024). Value creation in data-centric B2B platforms: A model based on multiple case studies. Industrial Marketing Management, 119, 1-14. https://doi.org/nkht
- (35) McNab, D., McKay, J., Shorrock, S., Luty, S. & Bowie, P. (2023). Development and application of 'systems thinking' principles for quality improvement. BMJ Open Quality, 12(1), e000714. https://doi.org/gdq4
- (36) Medne, A. & Lapina, I. (2019). Sustainability and continuous improvement of organization: review of process-oriented performance indicators. Journal of Open

- Innovation: Technology, Market, and Complexity, 5(3), 49. https://doi.org/10.3390/joitmc5030049
- (37) Mikalef, P., van de Wetering, R. & Krogstie, J. (2021). Building dynamic capabilities by leveraging big data analytics: The role of organizational inertia. Information & Management, 58(6), 103412. https://doi.org/gj3bsw
- (38) Mintzberg, H. (1979). The structuring of organizations: a synthesis of the research. Prentice-Hall. https://searchworks.stanford.edu/view/10027624
- (39) Moher, D., Liberati, A., Tetzlaff, J., Altman, D. G. & PRISMA Group (2009). Preferred reporting items for systematic reviews and meta-analyses: the PRISMA statement. PLoS medicine, 6(7), e1000097. https://doi.org/bq3jpc
- (40) Nonaka, I. & Takeuchi, H. (1995). The knowledge-creating company: how Japanese companies create the dynamics of innovation. Oxford University Press. https://tinyurl.com/55uxmdsr
- (41) Obeidat, A. M. (2019). IT adaption with knowledge conversion process (SECI). Management Science Letters, 9(9), 2241–2252. https://tinyurl.com/jj4pwnjj
- (42) Ohno, T. (1998). Toyota Production System: Beyond Large-Scale Production. Productivity Press. https://tinyurl.com/44tpzsuy
- (43) Pisoni, G., Molnár, B. & Tarcsi, Á. (2023). Knowledge management and data analysis techniques for data-driven financial companies. Journal of the Knowledge Economy, 15, 13374 13393. https://doi.org/nkhv
- (44) Polanyi, M. (2009). The Tacit Dimension. The University Chicago Press. https://tinyurl.com/4vmhn68s
- (45) Reinking, J., Arnold, V. & Sutton, S. G. (2020). Synthesizing enterprise data through digital dashboards to strategically align performance: why do operational managers use dashboards? International Journal of Accounting Information Systems, 37, 100452. https://doi.org/nkhw
- (46) Ringberg, T., Reihlen, M. & Rydén, P. (2019). The technology-mindset interactions: Leading to incremental, radical or revolutionary innovations. Industrial Marketing Management, 79, 102–113. https://doi.org/gfgvkp
- (47) Rossignoli, F., Lionzo, A., Henschel, T. & Boers, B. (2024). Knowledge sharing in family SMEs: the role of communities of practice. Journal of Family Business Management, 14(2), 310-331. https://doi.org/gsmg38

- (48) Rowe, L., Knight, L., Irvine, P. & Greenwood, J. (2023). Communities of practice for contemporary leadership development and knowledge exchange through work-based learning. Journal of Education and Work, 36(6), 494–510. https://doi.org/nkhc
- (49) Schein, E. H. (2010). Organizational Culture and Leadership (4.a ed.). Jossey-Bass. https://tinyurl.com/3vafs57k
- (50) Senge, P. M. (1990). The fifth discipline: the art and practice of the learning organization.

 Doubleday. https://tinyurl.com/mwy5s3w2
- (51) Tobin, R., Crawford, G., Hallett, J., Maycock, B. & Lobo, R. (2022). Utilizing causal loop diagramming to explore a research and evaluation capacity building partnership. Frontiers in public health, 10, 857918. https://doi.org/nkhx
- (52) Venkatraman, S. & Venkatraman, R. (2018). Communities of practice approach for knowledge management systems. Systems, 6(4), 36. https://doi.org/gpjt9d
- (53) Wendra, W., Sule, E. T., Joeliaty, J. & Azis, Y. (2019). Exploring dynamic capabilities, intellectual capital and innovation performance relationship: evidence from the garment manufacturing. Business: Theory and Practice, 20, 123-136. https://doi.org/nkhb
- (54) Wenger, E. C. & Snyder, W. M. (2000). Communities of practice: the organizational frontier. Harvard Business Review, 78(1), 139-145. https://tinyurl.com/2vbem28t
- (55) Wiig, K. M. (1993). Knowledge management foundations: thinking about thinking how people and organizations create, represent, and use knowledge. Schema Press. https://tinyurl.com/3dkrnzkf
- (56) Xuecheng, W., Iqbal, Q. & Bai, S. (2022). Factors affecting employee's retention: integration of situational leadership with social exchange theory. Frontiers in Psychology, 13, 872105. https://doi.org/nkhz
- (57) Yang, H. & Zhou, D. (2022). Perceived organizational support and creativity of science-technology talents in the digital age: the effects of affective commitment, innovative self-efficacy and digital thinking. Psychology research and behavior management, 15, 2421–2437. https://doi.org/nkh2
- (58) Yoshikuni, A. C., Dwivedi, R., Zhou, D. & Wamba, S. F. (2023). Big data and business analytics enabled innovation and dynamic capabilities in organizations: Developing and validating scale. International Journal of Information Management Data Insights, 3(2), 100206. https://doi.org/nkh3
- (59) Zamiri, M. & Esmaeili, A. (2024). Methods and technologies for supporting knowledge sharing within learning communities: a systematic literature review. Administrative Sciences, 14(1), 17. https://doi.org/nkh4