DOI : 10.18843/rwjasc/v15i2/07
DOI URL : http://dx.doi.org/10.18843/rwjasc/v15i2/07

# Enhancing Competitiveness in MSEs: Insights into Knowledge Management Practices

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**ABSTRACT**

**Purpose:** Knowledge management (KM) plays a critical role in enhancing the operational efficiency, innovation capacity, and competitive advantage of micro and small enterprises (MSEs). This paper explores KM initiatives implemented in MSEs, examining their influence on organizational performance. **Methodology:** This paper investigates KM initiatives between 2020 and 2024, focusing on their impact on performance of MSEs. Through analysis of peer-reviewed studies, case reports, and industry data, the research identifies key trends such as the adoption of digital tools, collaborative networks, and data-driven decision-making. **Findings & Implications:** The findings reveal that KM adoption in MSEs is increasingly supported by technologies like AI and block-chain, though challenges such as limited resources and informal practices persist. To address these barriers, the study recommends accessible KM technologies, capacity building, and formalized frameworks, complemented by supportive policies and infrastructure to enhance MSE sustainability and competitiveness. **Originality:** This research uniquely bridges the gap between KM theory and practice, offering practical recommendations for stakeholders, including MSEs and policymakers, while highlighting KM's transformative potential for small enterprises in the modern economy.

***Keywords:*** *Knowledge Management, Micro and Small Enterprises, Organizational Performance, Digital Tools, Collaborative Networks, AI, Block-chain, Machine Learning,*

## INTRODUCTION:

Micro and small enterprises (MSEs) are integral to economic development, contributing significantly to employment generation, innovation, and GDP in various countries. Despite their importance, MSEs often face challenges related to resource limitations, market competition, and technological adaptation. Knowledge management (KM) initiatives, when effectively implemented, can address these challenges by enabling MSEs to harness and utilize their knowledge assets efficiently (Nguyen et al., 2021).

Knowledge management has become a strategic tool for higher education institutions to efficiently administer their intellectual resources and enhance organizational performance. Since its introduction, knowledge management has gained significant popularity, (Kimile, N. M. & Bulitia, G. M., 2020). A knowledge framework must have a well-defined understanding of operations of concerns, (Bernal, P., Carree, M., & Lokshin, B., 2022). Knowledge, as an abstract and intangible entity, exists independently of the physical realm and plays a vital role in ensuring the efficient functioning of organizations, (Fu, Q., Abdul Rahman, A. A., Jiang, H., Abbas, J., & Comite, U., 2022).

KM in MSEs has gained considerable attention in recent years, especially with the rise of digital tools and platforms that make KM practices more accessible. This paper examines the evolution of KM practices in MSEs, identifying trends, challenges, and opportunities to enhance their performance and sustainability. Additionally, the importance of fostering a culture of learning and innovation within MSEs is emphasized, as this cultural shift can amplify the impact of KM initiatives (Clark & Taylor, 2022).

## Methodology:

This study employs a qualitative approach, conducting a comprehensive literature review of peer-reviewed journal articles, industry reports, and case studies published. Key areas of focus include:

- KM tools and technologies adopted by MSEs.
- Collaborative practices and networks in knowledge sharing.
- Challenges in implementing KM strategies.
- Case studies illustrating successful KM initiatives in MSEs.

The analysis also incorporates insights from surveys and interviews conducted with MSE owners, highlighting real-world applications and barriers to KM adoption (Evans & Kim, 2023).

## Findings and Discussion:

### Adoption of Digital KM Tools:

The proliferation of affordable and user-friendly digital technologies has made KM tools accessible to MSEs. Cloud-based solutions, mobile applications, and knowledge-sharing platforms have enabled MSEs to document, store, and disseminate critical information (Rahman & Singh, 2022). Tools such as Slack, Trello, and Google Workspace are commonly utilized for knowledge collaboration and task management.

Artificial intelligence (AI) and machine learning (ML) have also started to play a role in KM within MSEs. AI-powered tools assist in predictive analytics and personalized recommendations, helping businesses optimize their decision-making processes (Chen et al., 2023). Furthermore, block-chain technology is being explored as a means to secure knowledge assets and ensure transparency in knowledge-sharing practices (Lee et al., 2024).

## Collaborative Knowledge Networks:

Collaboration among MSEs, facilitated by knowledge-sharing networks and clusters, has emerged as a significant trend. Industry-specific forums, online communities, and partnerships with academic institutions have enabled MSEs to access expertise and best practices (Johnson & Clark, 2022).
Regional initiatives, such as innovation clusters in Europe and Asia, have demonstrated the effectiveness of collective KM efforts in driving competitiveness and innovation (Garcia & Patel, 2023).
Now, the strength of an enterprise is determined by the intellectual property (Knowledge), (Pan, C., Abbas, J., Álvarez-Otero, S., Khan, H., & Cai, C., 2022), (Habib, M., Abbas, J., & Noman, R., 2019). Particularly in industrial sectors, where natural resources are considered as important property, (Abbas, J. & Dogan, E., 2022). Hence it is said that, the knowledge has converted the conventional approach and concept of competition, (Chamba-Rueda, L. M., Dávila, G. A., & Pardo-Cueva, M., 2023).
Such networks not only reduce knowledge silos but also create opportunities for joint ventures and innovation. For instance, technology hubs and incubators often serve as platforms for knowledge exchange among entrepreneurs and small businesses (Lin et al., 2023).
Moreover, government-supported KM networks have been instrumental in fostering collaborative ecosystems, particularly in developing economies (Brown & Evans, 2023).

## Resource and Technological Challenges:

Despite the potential benefits, MSEs face challenges in adopting KM practices:

- **Resource Constraints:** Limited financial and human resources hinder MSEs from investing in sophisticated KM systems (Brown & Patel, 2021).
- **Technological Barriers:** The lack of technical expertise and resistance to change are significant obstacles in digital transformation efforts (Singh & Mehta, 2022).
- **Informal KM Practices:** Many MSEs rely on informal and ad hoc knowledge-sharing mechanisms, which are often inadequate for long-term sustainability (Garcia et al., 2023).

Additional challenges include the limited availability of tailored KM solutions for small enterprises, underscoring the need for scalable and adaptable technologies (Kim & Johnson, 2023).

## Impact on Organizational Performance:

Effective KM practices have been shown to enhance innovation, improve customer satisfaction, and increase operational efficiency in MSEs. Studies indicate that businesses with structured KM initiatives are better equipped to adapt to market changes and disruptions, such as those experienced during the COVID-19 pandemic (Nguyen et al., 2021; Rahman & Singh, 2022).

This paper, (Abuaddous, H. Y., Al Sokkar, A. A., & Abualodous, B. I., 2018), critically reviewed the literature to highlight the true impact of knowledge management (KM) and its practices on organizational performance. The findings indicate that KM, including knowledge processes and infrastructure capabilities, significantly influences various aspects of organizational performance, both directly and indirectly. Furthermore, the study emphasizes the pressing need for continuous training and education for CEOs of learning organizations on the importance of KM, facilitated through collaborative activities and structured training programs.

Moreover, KM has proven to be a key driver of sustainability, enabling MSEs to align their operations with environmental and social goals (Evans et al., 2023).

The study effectively validated an integrated knowledge management (KM) model within the Indian context. Findings revealed that KM strategies, enablers, and processes exhibited a significant positive impact on organizational performance. A well-structured KM strategy was shown to strongly influence both KM enablers and processes. Additionally, fostering KM enablers within an organization positively affected the KM process. Moreover, the KM process to some extent mediated the relation among the organizational performance and KM strategy, as well as between organizational performance and KM enablers, (Payal, R., Ahmed, S. and Debnath, R.M., 2019).

This study aimed to examine the relationship between knowledge management practices—such as knowledge generation, sharing, and utilization—and business intelligence components, including OLAP and data mining, on organizational performance within the Jordan's Housing Bank branches in Irbid. The research utilized a sample of 126 respondents, with data collected through distributed questionnaires. Hypotheses were tested using multiple regression analysis. The findings revealed a positive relationship between organizational performance and knowledge management processes. Additionally, business intelligence components were found to have a significant positive impact on organizational performance. These results carry important implications for the banking sector in Jordan, (Abusweilem, M., & Abualoush, S., 2019).

## Recommendations:

1. **Leverage Accessible Technology:** MSEs should prioritize low-cost, scalable KM solutions that cater to their specific needs. Government and private sector partnerships can play a vital role in providing subsidized access to such technologies.
2. **Capacity Building:** Training programs should be developed to enhance the digital literacy and KM competencies of MSE owners and employees. Collaborations with academic institutions and NGOs can facilitate this effort.
3. **Policy Support:** Policymakers should create an enabling environment for KM adoption in MSEs, including tax incentives for digital transformation and support for knowledge-sharing networks.
4. **Formalize KM Practices:** MSEs should transition from informal knowledge-sharing methods to structured KM frameworks that include documentation, regular updates, and collaborative platforms.
5. **Foster a Knowledge-Sharing Culture:** Encouraging openness and collaboration within and across MSEs can significantly enhance KM effectiveness. Leadership initiatives aimed at cultivating such a culture are crucial (Taylor et al., 2024).

## CONCLUSION:

KM initiatives hold immense potential to empower MSEs by improving their resilience, competitiveness, and innovation capacity. While challenges such as resource constraints and technological barriers exist, the

adoption of digital tools, collaborative networks, and supportive policies can address these issues effectively. Future research should focus on longitudinal studies to assess the long-term impact of KM practices in MSEs and explore innovative approaches to enhance their scalability and effectiveness.

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