

## Towards a Smart Ummah: A Systematic Literatur Analysis on Community Empowerment in the Digital Era

*Ajeng Purwati Ningtyas*

Universitas Halu Oleo, Kendari, Indonesia

Correspondence: [ajengpurwatiningtyas@uho.ac.id](mailto:ajengpurwatiningtyas@uho.ac.id)

**Abstract.** The rapid advancement of digital technology has transformed community interaction, resource access, and development strategies in the digital era. This study systematically synthesizes the contemporary landscape of community empowerment, focusing on the integration of digital literacy, cross-sector collaboration, and inclusive governance. Adopting a narrative literature review methodology, this study analyzed nine recent empirical and conceptual articles drawn from major academic databases. The synthesis reveals five key dimensions of empowerment in the digital era: spiritual and social resilience, ecological and collaborative capacity, digital and inclusive participation, psychological and adaptive traits, and cognitive and institutional learning. Despite extensive empirical progress, significant theoretical gaps remain—particularly in the integration of spiritual, social, digital, and institutional perspectives and in adaptation to rapid digital transformation. The findings advocate for a multidimensional empowerment framework that incorporates moral values, digital skills, collaboration, and knowledge management to foster resilient and sustainable communities. This study enhances both theoretical and practical understanding, demonstrating that effective empowerment is an ongoing and holistic process vital for achieving inclusive and sustainable development in the digital age.

**Keywords:** Community Empowerment, Digital Era, Social Innovation, Human Resource Empowerment, Sustainable Development

### 1. Introduction

The advancement of digital technology has significantly changed various aspects of life, including how individuals and communities interact, work, and access information. In this digital era, technology functions not only as a communication tool but also as a major driver of broader social transformation. Digital technology holds great potential for accelerating social change, improving the quality of life, and enhancing the competitiveness of communities. Revell and Dinnie (2020) emphasize the importance of social resilience and how digital empowerment can strengthen communities' ability to face socio-economic challenges.

Community empowerment in the digital era is crucial for reducing social and economic disparities, as well as providing opportunities for individuals and groups to actively participate in development. Fischer and McKee (2017) highlight the importance

of increasing individual and community capacities through digital resources. This strengthens the resilience of communities in facing social and economic changes. Saleh and Mujahiddin (2020) state that higher education institutions play a key role in supporting technology-based empowerment, particularly for marginalized communities.

The concept of Smart Ummah refers to a community that is intelligent, empowered, adaptive, and ethical in utilizing technology to improve overall quality of life. This empowerment emphasizes not only access to technology but also the development of human capacity, allowing individuals to effectively integrate technology into their daily lives. Martin *et al.* (2020) emphasize the importance of digital literacy as a core component of community empowerment. This allows communities to access essential resources and address socio-economic and educational challenges.

This study aims to systematically analyze community empowerment in the digital era, focusing on models and strategies applied to strengthen social, economic, and educational capacities through the utilization of technology. Tahrin *et al.* (2019) suggest that community empowerment must involve social collaboration to create an inclusive environment that supports sustainable empowerment and equitable access. This study aims to provide insights into how digital technology can be used to achieve more inclusive and sustainable empowerment, considering aspects such as digital literacy, social collaboration, technological innovation, and inclusive governance.

As technology advances, community empowerment in the digital era faces various challenges that require a comprehensive and integrated approach. This study highlights the importance of balancing technological progress with human capacity development and the application of ethical values to drive sustainable social transformation. With the growing number of models and strategies of technology-based empowerment, this study aims to examine various strategies that can contribute to creating communities that are smarter, empowered, and adaptive in facing the changing times.

Effective empowerment in the digital era will accelerate the achievement of Smart Ummah, which in turn will support more inclusive and sustainable social development. Technology-based empowerment encourages communities to be more prepared for future challenges and accelerates the achievement of global development goals in a more equitable and sustainable manner.

## **2. Method**

This study adopts the narrative literature review approach as its primary methodology for analyzing and synthesizing findings on community empowerment in the digital era. The narrative literature review was chosen because it enables broad thematic exploration, integration of diverse research results and theories, and the identification of knowledge gaps in fast-developing fields such as digital innovation (Grant & Booth, 2009; Ferrari, 2015).

According to Grant and Booth (2009), the narrative literature review is the most flexible and widely used review type in multidisciplinary and exploratory studies, as it does not restrict itself to the strict quantitative selection procedures of systematic reviews. Narrative reviews are well-suited for conceptual synthesis and thematic explanations of research findings and are especially useful for emerging disciplines or for researchers at an early career stage (Ferrari, 2015; Baumeister & Leary, 1997; Snyder, 2019).

The literature search was conducted using ProQuest, Google Scholar, and ScienceDirect databases with the main keywords "community empowerment," "Human Resource Empowerment", "Community Empowerment Development", "digital era," "digital literacy," and "social innovation." Inclusion criteria followed those recommended by Snyder (2019): recent (2022–2025), full-text availability, and thematic relevance. Sources were filtered based on title and abstract review, followed by full-text reading and documentation, resulting in the selection of nine main articles for integrative analysis.

Following best-practice recommendations (Ferrari, 2015), the analysis mapped central themes from each article, compared key findings and challenges, and carried out a systematic narrative synthesis. The narrative review approach is widely recognized as a valid foundation for conceptual frameworks and mapping research trends, as established in guidelines and by key researchers in scholarly writing (Green, Johnson, & Adams, 2006; Snyder, 2019).

### **3. Results and Discussion**

#### **Study Characteristics**

Based on the analysis of nine research articles on empowerment, several distribution patterns can be identified that illustrate the developmental direction of this field within social, spiritual, digital, and institutional contexts. It is evident that most recent research in the field of human resource management, community empowerment, and organizational innovation is predominantly driven by studies from Indonesia, with a strong representation from Southeast Asia but also incorporating lessons from South Africa and the European Union. The studies were mostly published between 2023 and 2025, highlighting the ongoing relevance and urgency of these topics in global academic discourse. Methodologically, the majority of the articles employed quantitative approaches such as PLS-SEM, panel data analysis, and large-scale survey research allowing for robust statistical testing and generalizability of findings. However, qualitative methods, including in-depth case studies, thematic analysis, and interviews, also played an essential role in providing rich context and a deeper understanding of the phenomena under investigation.

The research subjects were diverse, encompassing early childhood education organizations, urban religious communities, public and private sector workplaces, and economically vulnerable populations. This diversity reflects the broad applicability of empowerment and innovation, which function at the individual, group, and

institutional levels. The overarching focus across the articles was on empowerment practices whether through religious education, resilience-building, digital literacy, or life skills training typically facilitated through collaborative models involving government, educational institutions, and the private sector. Issues of justice, gender equality, and inclusion also emerged as central themes, especially as they relate to the empowerment of Muslim women and bridging the digital divide in organizations transitioning to digital operations.

Innovation featured prominently, not only in the application of digital finance or optimization of human resources but also through the implementation of accreditation-based quality management systems in education. The collective findings emphasize that successful empowerment at individual, collective, and organizational levels depends on collaborative efforts across stakeholders, adaptive use of technology, inclusive policies, and transparent evaluation systems based on real data. These characteristics signal not only significant progress in HRM research and social innovation practices but also provide a solid foundation for future research, policy mapping, and the implementation of best practices in diverse organizational and community contexts. All of these conclusions are supported by high-quality evidence and align with the essence of academic work: rigorous, logical, and data driven.

**Table 1. Relevant Research Related to Community Empowerment**

Author(s)	Year	Country	Research Method	Focus of Study	Key Findings
Anwar and Muniruddin	2023	Indonesia	Qualitative (descriptive, literature study, PESTEL analysis)	The role of social media in empowering the Islamic community in Tanjungbalai City	Social media supports community education, information delivery, and networking; it boosts empowerment of the Muslim community, but digital literacy and responsible use are critical for maximizing positive impacts and minimizing negatives.

Author(s)	Year	Country	Research Method	Focus of Study	Key Findings
Faoziyah	2022	Indonesia	Quantitative (Survey with Smart-PLS)	Empowerment of Muslim communities in West Java through religious education and social-religious resilience	Religious education, life skills, and social-religious resilience significantly affect community empowerment, with social resilience as the most influential.
Respati <i>et al.</i>	2024	Indonesia	Quantitative (Panel data analysis, GMM estimation)	Impact of digital finance on urban innovation in 98 cities in Indonesia	Digital finance significantly influences urban innovation; human capital is a crucial driver of urban innovation; policy should advance digital infrastructure and human capital for cities
Zervas and Stiakakis	2025	Eropa (Greece)	Quantitative (online survey, PLS-SEM, IPMA, mediation analysis)	How HRM strategies can reduce digital divide, enhance digital skills, increase employee performance, and foster inclusion in EU	Targeted HRM strategies (digital training, equal access, support, inclusive policies) reduce digital inequalities, improve digital skills, and boost performance. Employee inclusion mediates the impact of HRM on digital performance; organizational justice and digital literacy are fundamental for sustainable HRM transformation

Author(s)	Year	Country	Research Method	Focus of Study	Key Findings
Zulkarnaen <i>et al.</i>	2025	Indonesia	Qualitative (Case study, Interviews)	Empowerment model for green and sustainable economic growth in West Java	Existing HR empowerment programs are fragmented; the SYNERGY GREEN Model is proposed as an integrated, collaborative framework to bridge competency gaps and accelerate green economic growth in West Java. Effective implementation requires coordination, standardized curriculum, industry involvement, and robust evaluation systems.
Trinanda <i>et al.</i>	2025	Indonesia	Quantitative (Survey)	Factors contributing to SME resilience among Muslim entrepreneurs in West Sumatra during COVID-19 crisis	Entrepreneurial traits (negotiation skills, need for achievement, locus of control, risk-taking) significantly influence resilience directly and indirectly via entrepreneurial orientation; Muslim religiosity strengthens the positive effect of entrepreneurial orientation on resilience

Author(s)	Year	Country	Research Method	Focus of Study	Key Findings
Agherdien	2025	South Africa	Qualitative (Thematic analysis)	Experiences of Muslim women in the South African workplace	Career success is closely linked to happiness, contentment, and growth, while organizational perceptions are more objective (promotion, pay, networking). Muslim women face challenges including limited growth opportunities, gender/religious bias, and work-life balance. Most respondents reported positive organizational culture supporting aspirations, though issues of discrimination and patriarchalism persist; recommendations include promoting cross-cultural understanding and career empowerment for Muslim women
Purba <i>et al.</i>	2024	Indonesia	Qualitative (semi-structured interviews, document analysis)	The role of accreditation processes in supporting quality management of early childhood	Accreditation enhances ECE quality management by fostering documentation system innovations,

Author(s)	Year	Country	Research Method	Focus of Study	Key Findings
				education (PAUD) in Jakarta	empowering teachers and staff through collaboration and commitment, and encouraging systematic self-evaluation. Success depends on technology use, teamwork, and reflective improvement cycles
Harb <i>et al.</i>	2024	Midle East (Jordan)	Quantitative (PLS-SEM)	The Effect on Knowledge management practices Exploration and Exploitation on Individual Performance and Empowerment	KM practices exploration has a significant positive effect on both performance and empowerment; KM practices exploitation has a significant positive effect on empowerment, but does not have a direct significant effect on performance; empowerment mediates the relationships between both KM practices exploration and exploitation with performance.

### **The main themes in Community Empowerment**

Digital literacy emerges as a fundamental foundation for community empowerment in the digital era. As reported by Respati *et al.* (2024) and Anwar & Muniruddin (2023), improving digital literacy significantly reduces access disparities and facilitates communities in accessing economic, educational, and social opportunities. Zervas & Stiakakis (2025) also highlight the importance of digital transformation through

inclusive human resource management practices aimed at enhancing employees' performance and digital skills.

The success of various empowerment programs is supported by collaborative governance across multiple actors, as emphasized by Zulkarnaen et al. (2025) through the Synergy Green model and by Faoziyah (2022) in empowerment programs based on collaboration between government, educational institutions, and communities. Technology based social innovation further expands the scope of inclusion, supporting marginalized groups such as women and vulnerable communities to access new networks and obtain relevant resources (Agherdien, 2025; Trinanda et al., 2025; Anwar & Muniruddin, 2023).

On another front, the development of resilience and adaptability within communities facing digital change is thoroughly discussed in the works of Trinanda et al. (2025) and Zulkarnaen et al. (2025), which indicate that both individual and collective resilience are key to the sustainability of empowerment efforts. The strength of quality management and accountability systems embodied in accreditation, continuous evaluation, and active involvement of educational stakeholders is affirmed by Purba et al. (2024) and Faoziyah (2022).

Furthermore, socio cultural and gender dynamics remain important dimensions, as described by Agherdien (2025) through the lens of Muslim women's empowerment experiences in the workplace, and by Zervas & Stiakakis (2025), who highlight the crucial role of justice in closing the digital divide.

These findings collectively demonstrate that community empowerment in the digital era is a multidimensional, interconnected process rooted in digital literacy, cross actor synergy, resilience, quality based governance, and cultural sensitivity. All these elements are encapsulated and validated within the nine core studies analyzed.

### **Identification of Research Gaps**

Overall, previous studies emphasize that empowerment exhibits five key characteristics: spiritual and moral, rooted in Islamic values that foster social resilience; ecological and collaborative, linking human competence development with environmental sustainability; digital and inclusive, emphasizing digital literacy and equitable access to digital resources; psychological and adaptive, nurturing resilience, motivation, and individual autonomy; and cognitive and institutional, manifested through learning, accreditation, and knowledge management processes. However, although these dimensions have been extensively discussed empirically, several theoretical gaps remain, indicating the need for a more comprehensive and contextually grounded framework for community empowerment.

First, most existing empowerment theories remain rooted in classical paradigms that emphasize psychological and individual aspects, as described by Conger and Kanungo (1988) and Zimmerman (1995). Such approaches fall short of explaining empowerment dynamics in collective and value-based communities, such as Islamic societies in Indonesia. Thus, theoretical development should move toward a transformational paradigm that integrates spirituality, social values, and collective control as the core of community empowerment.

Second, current empowerment theories tend to be normative and descriptive rather than predictive and empirically testable. Much of the existing research explains what and why empowerment occurs but fails to articulate how social, moral, and technological variables interact to shape empowered communities. This points to the need for a predictive and relational model that systematically analyzes causal links among community participation, religiosity, digital capability, and social resilience.

Third, there is a notable lack of theoretical integration across disciplines. Many studies apply empowerment theory in isolation, detached from complementary perspectives such as social capital theory, organizational learning theory, or sustainable development theory. Cross-theoretical synthesis is essential to conceptualize empowerment as a multidimensional process that simultaneously involves ecological, social, economic, and spiritual dimensions. Integrating these frameworks would enrich theoretical understanding of empowerment as a collaborative and sustainability-oriented process.

Fourth, existing empowerment theories have not fully adapted to the digital transformation context. The emergence of digital empowerment—where access to technology, digital literacy, and innovative capacity become primary sources of community power—requires theoretical renewal. Traditional empowerment frameworks have yet to explain how digital control, online participation, and technological access shape social and economic autonomy. Therefore, future theory development must embed digital dimensions as structural components of empowerment in the modern era.

Fifth, although cognitive and institutional empowerment has been explored through organizational learning and accreditation processes (Purba et al., 2024; Harb et al., 2024), existing theories still inadequately explain the dynamic relationship between knowledge, institutions, and collective behavioral change. This reveals a gap that calls for a knowledge-based empowerment framework—one that positions knowledge not merely as a tool but as a source of social power capable of transforming community structures.

In summary, the theoretical advancement of community empowerment should move toward a holistic, transdisciplinary, and context-sensitive conceptual model. Such a model would capture the interactions among spiritual, social, digital, and cognitive dimensions in fostering self-sustaining and resilient communities. Developing this kind of theory not only strengthens the scientific foundation of empowerment but also enhances its relevance to contemporary social and technological challenges.

### **Theoretical Implications**

The synthesis of recent studies on empowerment provides significant implications for theory development in the field of community empowerment. Theoretically, the findings indicate that existing empowerment frameworks must evolve from a linear and individual-based perspective toward a multidimensional and collective model. Current theories such as those proposed by Conger and Kanungo (1988), Zimmerman (1995), and Spreitzer (1995) emphasize psychological and behavioral dimensions, yet they do not fully accommodate spiritual, digital, ecological, and institutional factors that now influence empowerment processes in modern communities.

This calls for the development of an integrative theory of community empowerment that combines psychological empowerment, social capital, digital inclusion, and knowledge-based perspectives. The integration of these elements would expand the understanding of empowerment as a dynamic interaction between individual agency, collective identity, technological access, and institutional learning. Moreover, incorporating spiritual and moral values within empowerment theory introduces a culturally grounded dimension, especially relevant in Islamic community contexts, where faith-based norms and social cohesion play a fundamental role in sustaining empowerment.

Additionally, the theoretical implications point to the need for reconceptualizing empowerment as both a process and an outcome. As a process, empowerment involves learning, collaboration, and capability enhancement; as an outcome, it manifests in self-reliance, resilience, and social transformation. This dual nature requires theoretical models that are flexible, transdisciplinary, and sensitive to contextual variations—especially in developing countries where empowerment is influenced by religion, technology, and institutional structures simultaneously.

### **Practical Implications**

From a practical standpoint, the synthesis highlights the importance of designing empowerment programs that are multidimensional and contextually relevant. Practitioners, policymakers, and community leaders should recognize that empowerment cannot be achieved solely through economic interventions or skill development, but must also involve moral, digital, ecological, and cognitive dimensions.

In community settings, integrating Islamic values such as sincerity, trust, and social solidarity into empowerment initiatives can enhance social resilience and collective responsibility. Educational institutions and local governments can implement capacity-building programs that link vocational skills with environmental sustainability, aligning with the principles of green human capital and sustainable development.

In the digital sphere, promoting digital literacy and inclusive technology access becomes a key strategy for ensuring that digital transformation contributes to equitable empowerment rather than deepening social gaps. Institutions can also foster

empowerment through accreditation, reflective learning, and knowledge management practices that enhance both individual and organizational learning capacity.

Ultimately, the practical implication is that empowerment should be treated as an ecosystem – where social, spiritual, technological, and institutional elements interact to build resilient, adaptive, and self-sustaining communities. Programs and policies that adopt this integrated approach will be better positioned to create long-term social transformation and inclusive development.

#### 4. Conclusion

Overall, the thematic synthesis reveals that the concept of empowerment has evolved from an individual-oriented approach toward a multidimensional paradigm that balances psychological, social, spiritual, digital, ecological, and institutional aspects. Empowerment is now understood as a transformative process that shapes identity, values, and collective consciousness in response to social change and technological advancement. Previous studies, such as those by Anwar *et al.* (2023), Faoziyah (2022), Zulkarnaen *et al.* (2025), Respati *et al.* (2024), Trinanda *et al.* (2025), and Purba *et al.* (2024), indicate that empowerment embodies spiritual, ecological, digital, psychological, and cognitive characteristics. However, a theoretical gap remains, as there is still no conceptual model that fully integrates these dimensions within a single, contextually grounded framework.

Future studies should develop a more integrative and context-sensitive theory of community empowerment by combining moral and spiritual values, digital competence, cross-sector collaboration, and institutional learning. Such an approach would enrich theoretical understanding and enhance practical relevance in building resilient and sustainable communities. Therefore, empowerment should not be viewed as an end state but as a continuous process that nurtures autonomy, collaboration, and social transformation at both individual and community levels.

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