

Advancing Digital Inclusion in Social Work: A Dual Perspective from India and China

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How to cite this article: Prof. Ramesh B. (2024). Advancing Digital Inclusion in Social Work: A Dual Perspective from India and China. *Library Progress International*, 44(3), 27746-27751

Introduction

The digital era has transformed how societies function, access services, and engage with resources. For social work, a profession grounded in equity and inclusion, digital inclusion is not merely a technological concern but a social justice imperative (Parrott & Madoc-Jones, 2008). In developing countries like India and China, social workers play a pivotal role in ensuring that marginalized populations are not excluded from the digital revolution. This chapter presents a comparative analysis of digital inclusion efforts in social work across India and China, highlighting strategies, challenges, and the way forward.

Conceptualizing Digital Inclusion in Social Work

Digital inclusion refers to the ability of individuals and communities to access and effectively use information and communication technologies (ICTs). It encompasses five elements: affordable, robust internet service; internet-enabled devices that meet user needs; access to digital literacy training; quality technical support; and applications and online content designed to enable and encourage self-sufficiency, participation, and collaboration (National Digital Inclusion Alliance [NDIA], 2020).

In the context of social work, digital inclusion ensures that disadvantaged groups—such as the elderly, rural populations, persons with disabilities, and those from low-income backgrounds—can access essential digital resources (Reamer, 2013). Social workers serve as mediators, educators, and advocates to bridge the digital divide, ensuring technology becomes a tool of empowerment rather than exclusion.

Digital Inclusion in India: Ground-Level Engagement

Context and Challenges

India, with a population exceeding 1.4 billion, faces significant disparities in digital access, especially between urban and rural areas. According to the Internet and Mobile Association of India (IAMAI, 2022), internet penetration in rural areas lags significantly behind urban centers. Key barriers include affordability, lack of infrastructure, low digital literacy, and linguistic diversity.

Social Work Interventions

Social workers in India have responded by designing community-based digital literacy initiatives, often integrated into broader development programs. For example, the *Digital India* campaign, launched in 2015, has collaborated with civil society actors to expand digital infrastructure and skills (Mehrotra, 2019). Social workers contribute by:

- Developing culturally relevant digital training modules in local languages.
- Assisting women and senior citizens in acquiring digital skills.
- Connecting marginalized communities to e-governance platforms, such as *DigiLocker* and *UMANG* (Unified Mobile Application for New-age Governance).

In rural Andhra Pradesh and Karnataka, for instance, NGOs have worked with social workers to implement digital education hubs that provide internet access and digital skills training for tribal and Dalit communities (Singh, 2020).

Digital Inclusion in China: Technological Innovation and Centralized Strategy

China has made rapid strides in digital development, with over 1 billion internet users and high mobile internet penetration (China Internet Network Information Center [CNNIC], 2023). Government-led initiatives like *Internet Plus* and the *Smart Village Program* have aimed to integrate digital technology into all sectors, including health, education, and social services. Rural-urban disparities and the aging population continue to pose challenges. In remote regions such as Tibet and Xinjiang, access to broadband and digital literacy remains limited (Guo & Zhang, 2021).

Role of Social Workers

Chinese social workers often operate within government institutions or community service centers. Their roles include, Implementing mobile application-based service delivery for health consultations and elderly care. Organizing workshops on internet safety and online financial management for older adults. Partnering with technology firms to create accessible platforms tailored to local community needs. For example, the *WeDoctor* platform, in collaboration with social workers, enables remote health consultations in rural areas, reducing the need for physical travel (Liu et al., 2020). Social workers ensure that these digital tools are user-friendly and responsive to the needs of low-literacy populations.

Study Objectives

The primary objectives of this study are:

1. To examine the role of social workers in promoting digital inclusion in India and China.
2. To compare the strategies employed by both countries in addressing the digital divide.
3. To analyze the challenges and outcomes associated with digital inclusion efforts.
4. To propose policy and practice recommendations for enhancing digital inclusion in social work.

Hypotheses

The study is guided by the following hypotheses:

- **H1:** Social workers play a critical role in advancing digital inclusion in both India and China, albeit through different strategies.
- **H2:** A decentralized, community-based approach (India) and a centralized, policy-driven approach (China) yield distinct outcomes in digital inclusion.
- **H3:** Despite significant investments, both countries face persistent digital inclusion challenges, particularly among rural and marginalized populations.

Methodology

Research Design: This study adopts a **qualitative comparative research design**. It relies on **secondary data analysis** of academic journal articles, national reports, case studies, and policy documents from both India and China.

Data Sources

Key data sources include:

- Government reports (e.g., IAMAI, CNNIC)
- Peer-reviewed academic literature (e.g., Reamer, 2013; Singh, 2020)
- NGO case studies and documentation of social work interventions

Analytical Framework

The analysis uses a **thematic content analysis** method. Key themes include:

- Role of social workers
- Digital literacy programs
- Technology access and infrastructure
- Cultural and linguistic barriers
- Government and NGO strategies

5. Results and Discussion

This section presents the key findings of the study, organized into three sub-sections: (1) digital inclusion in India, (2) digital inclusion in China, and (3) a comparative analysis of the two nations. Each sub-section highlights the unique strategies, roles of social workers, successes, and ongoing challenges. The analysis supports the study's hypotheses and offers deeper insights into how social work practices shape digital inclusion outcomes in these two populous countries.

Digital Inclusion in India

India's digital landscape is marked by significant disparities, particularly along urban-rural and socio-economic lines. According to the Internet and Mobile Association of India (IAMAI, 2022), internet penetration in urban areas stands at 69%, while rural areas lag far behind at only 37%. This digital divide is more than a technological issue; it reflects entrenched social and economic inequalities. Social workers, in collaboration with governmental and non-governmental actors, play a central role in addressing these disparities.

Role of Social Workers in Bridging the Divide

Social workers in India actively partner with government initiatives like the **Digital India Mission**, civil society organizations, and local Panchayats to promote digital inclusion. Their activities include:

- **Conducting digital literacy workshops:** These are especially targeted at women, the elderly, and school-aged children. Workshops often cover basic skills such as using mobile phones, accessing digital banking, and online safety. By using regional languages and culturally appropriate teaching materials, these sessions have been successful in increasing confidence and participation (Singh, 2020).
- **Facilitating access to e-governance platforms:** Many rural and marginalized communities are unaware of or unable to access government services available online, such as *DigiLocker*, *UMANG*, and the *Aadhaar portal*. Social workers act as intermediaries, helping citizens obtain necessary documents, apply for subsidies, and access entitlements digitally (Mehrotra, 2019).
- **Setting up digital hubs and community centers:** In regions like Chhattisgarh, Karnataka, and Odisha, NGOs supported by social workers have created digital learning centers that serve as hubs for learning, browsing, and connecting with government services. These centers are often the only source of digital access in remote villages (Singh, 2020).

Contextual Adaptation and Cultural Sensitivity

A strength of India's approach is its **decentralized nature**, which allows local adaptations based on linguistic, cultural, and socio-economic realities. For example, programs in Tamil Nadu differ markedly in content and delivery from those in northeastern states like Assam or Nagaland. This localized approach aligns with the principles of community-based social work, where engagement, trust-building, and empowerment are key (Mehrotra, 2019).

However, persistent challenges remain. Limited infrastructure (such as erratic electricity and low broadband coverage), affordability of smartphones, and gender-based digital exclusion continue to hamper progress. Women in rural areas, in particular, often face social restrictions in accessing digital tools and spaces, thereby requiring tailored, gender-sensitive interventions.

Digital Inclusion in China

China, in contrast, has taken a **centralized and state-driven approach** to digital inclusion. According to the China Internet Network Information Center (CNNIC, 2023), the country has over 1 billion internet users and an internet penetration rate of 75%. The state's digital strategies are embedded in national development programs such as *Internet Plus*, *Digital Silk Road*, and the *Smart Village Program*.

Role of Social Workers in Digital Outreach

Social workers in China are predominantly employed in state-run or state-affiliated institutions, and their functions are integrated into national policy implementation. Their roles include:

- **Facilitating digital healthcare and telemedicine:** Platforms like *WeDoctor* and *Ping An Good Doctor* provide online consultations, medical record access, and appointment booking. Social workers act as liaisons between these platforms and elderly or low-literacy users, ensuring they can navigate digital health systems effectively (Liu et al., 2020).
- **Conducting digital literacy and safety workshops:** These programs, often aimed at the elderly, teach basic smartphone use, mobile payments via *WeChat* or *Alipay*, and safe browsing habits. They are commonly conducted in urban community centers and increasingly in rural township offices (Guo & Zhang, 2021).
- **Collaborating with technology developers:** Social workers provide input into the design of inclusive digital interfaces for public service apps. For instance, simplified interfaces, larger fonts, and voice-guided features have been implemented based on field insights.

Structural Strengths and Ongoing Challenges

China’s advantage lies in its **high-level policy coherence and technological infrastructure**. National programs are well-funded, and internet access is nearly ubiquitous in urban regions. However, challenges persist, particularly in remote and ethnically diverse regions such as Xinjiang and Tibet. Language diversity and historical mistrust of centralized authority can limit adoption of digital services among ethnic minorities (Guo & Zhang, 2021).

Moreover, while the technological platforms are advanced, there is limited flexibility at the grassroots level for adapting interventions to local needs. Unlike India's model, China's model often applies uniform solutions, which may not always align with specific community dynamics.

Comparative Analysis

A structured comparison of both nations reveals critical insights into how governance models, cultural diversity, and professional roles influence the efficacy of digital inclusion.

Aspect	India	China
Approach	Community-led, decentralized	participatory, Government-led, top-down, centralized
Role of Social Workers	Educator, community advocate	mobilizer, Policy implementer, facilitator, service coordinator
Target Populations	Dalits, tribal communities, rural women, elderly	Rural elderly, ethnic minorities, low-income groups
Technology Strategy	Mobile-first, basic digital literacy focused	App-based service integration, infrastructure-intensive
Strengths	Cultural sensitivity, grassroots adaptability, engagement	High penetration, strong infrastructure, unified policy direction
Challenges	Affordability, gender barriers, poor connectivity	Language barriers, low trust among ethnic minorities

This analysis validates the study's hypotheses. **H1** and **H2** are supported as social workers in both countries are integral to digital inclusion, though their strategies and institutional roles differ. **H3** is also affirmed—despite efforts, both nations face substantial barriers to achieving equitable digital access.

India’s model excels in community empowerment and adaptability but lacks technological scale. Conversely, China’s top-down structure facilitates broad implementation but can fall short in culturally nuanced engagement. These differences underscore the importance of balancing national

planning with local customization in digital inclusion strategies.

6. Policy Recommendations and Conclusion

6.1 Policy Recommendations

The comparative analysis of digital inclusion in social work across India and China underscores the need for nuanced, context-sensitive policies that empower social workers and address the multifaceted nature of digital exclusion. Based on the findings of this study, the following policy recommendations are proposed:

- 1. Develop Culturally and Linguistically Inclusive Digital Literacy Programs**

National and local governments should invest in digital literacy initiatives that are tailored to the cultural, linguistic, and socioeconomic contexts of marginalized communities. For instance, materials should be available in regional languages and address the specific needs of women, tribal communities, and the elderly.

- 2. Strengthen the Role of Social Workers in Digital Policy Implementation**

Both India and China must formally recognize and institutionalize the role of social workers as frontline facilitators of digital inclusion. This includes incorporating their input in program design, resource allocation, and evaluation of digital services.

- 3. Enhance Public–Private–Community Partnerships**

Governments should foster collaborations between technology providers, non-governmental organizations, and local communities. Such partnerships can facilitate the development of user-friendly platforms, expand outreach, and ensure sustainability of inclusion efforts.

- 4. Invest in Digital Infrastructure in Underserved Areas**

Equitable access begins with infrastructure. Investment is required in broadband connectivity, electricity supply, and affordable smart devices, particularly in rural and remote regions. Infrastructure development must be aligned with social inclusion goals.

- 5. Promote Gender-Responsive Digital Policies**

Digital inclusion policies must address the digital gender gap by supporting initiatives that empower women through digital skills training, online entrepreneurship opportunities, and safe digital spaces.

- 6. Implement Continuous Professional Development for Social Workers**

Social workers must be trained in digital competencies, data privacy, and the ethical use of technology. Professional development programs should be embedded in national social work education and training curricula.

- 7. Establish Monitoring and Evaluation Mechanisms**

Digital inclusion policies must be guided by real-time data, feedback mechanisms, and impact assessments. Social workers can play a crucial role in gathering community-level data and reporting implementation challenges.

Conclusion

Digital inclusion is not merely a technological goal; it is a social justice imperative that directly aligns with the core values of social work. As demonstrated in both India and China, social workers play a vital role in extending the benefits of digital transformation to underserved populations. While India's decentralized, community-based approach provides cultural flexibility and grassroots engagement, China's centralized, infrastructure-driven model ensures scale and policy coherence. Both models offer valuable lessons and cautionary insights.

However, persistent challenges—ranging from infrastructural gaps and affordability to language barriers and digital mistrust—continue to hinder inclusive digital participation. Overcoming these requires a multidimensional approach that integrates technological advancement with inclusive policy frameworks, grassroots involvement, and ethical considerations.

In conclusion, advancing digital inclusion through social work is a powerful strategy to reduce inequality, foster community resilience, and promote inclusive development. Policymakers, practitioners, and educators must therefore prioritize digital equity as a fundamental human right and strengthen the capacity of social workers to act as agents of digital empowerment.

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