

THE IMPACT OF DIGITALIZATION AND GIG ECONOMY ON RURAL WORKFORCE MOBILITY: OPPORTUNITIES AND CHALLENGES — A META- SYNTHESIS

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ABSTRACT

This article presents a meta-synthesis of the rural gig economy in developing countries through a digital labor lens. It identifies key moderating factors—digital infrastructure, education, gender norms, and policy environments—that shape differential access and outcomes in rural digital labor markets. Drawing on comparative insights from India, Indonesia, the Philippines, and Sub-Saharan Africa, the study finds that while digital platforms offer new work opportunities, they simultaneously reinforce existing inequalities. The discussion integrates Human Capital Theory, Institutional Theory, the Digital Divide, and the Capability Approach to provide a multidimensional framework for understanding these dynamics. The analysis highlights labor precarity, digital segmentation, and ethical concerns surrounding gig work, calling for inclusive policy reforms. This conceptual synthesis represents a novel contribution by offering a multidimensional framework for analyzing rural gig economy dynamics in developing contexts.

Keywords: Rural Gig Economy, Digital Inclusion, Gender and Labor, Human Capital Theory, Platform Work

INTRODUCTION

Background

The rapid advancement of digital technologies has significantly transformed the structure of labor markets worldwide, including in rural areas that were traditionally considered peripheral to the digital economy. Digitalization—encompassing broadband infrastructure, mobile connectivity, digital platforms, and automation—has opened new employment avenues for rural communities, particularly through remote work and participation in the gig economy (World Bank, 2021). This transformation introduces not only novel economic opportunities but also challenges the conventional patterns of rural-to-urban labor migration, raising important questions regarding workforce mobility, regional development, and social protection in the digital age.

In parallel, the gig economy—defined by short-term, flexible, and often digitally mediated work arrangements—has grown exponentially, offering income-generating possibilities for rural workers without requiring physical relocation. Platforms such as ride-hailing apps, freelancing portals, and e-commerce marketplaces enable individuals in remote areas to engage in economically productive activities across sectors and borders (De Stefano, 2016; Graham et al., 2017). However, while these digital labor platforms promise inclusivity and flexibility, they also raise concerns related to job precarity, income instability, and limited access to social security (Wood et al., 2019).

Existing literature reveals a dualistic impact of digitalization and the gig economy on rural workforce mobility. On one hand, digital access reduces geographical constraints, allowing individuals to remain in their communities while engaging in remote work or gig-based tasks. On the other hand, increased exposure to digital job opportunities outside rural economies may stimulate migration to urban or global markets, especially among youth with higher digital literacy (van Dijck et al., 2018). This paradox underscores the need for deeper investigation into how digital transformation reshapes the geography of work and employment decisions in rural settings.

This study aims to address this gap through a meta-synthesis of contemporary research on digitalization, the gig economy, and labor mobility in rural contexts. By systematically synthesizing findings from prior studies, this research seeks to identify prevailing trends, tensions, and policy implications that shape rural workforce trajectories in the digital era. In doing so, we offer a conceptual model that illustrates the complex relationship between digital access, employment behavior, and rural sustainability.

METHODOLOGY

This study adopts a **meta-synthesis approach** to integrate, interpret, and critically evaluate findings from multiple qualitative and mixed-method studies that explore the intersection of digitalization, gig economy participation, and rural workforce mobility. Meta-synthesis is particularly suited for generating new theoretical insights and identifying emerging patterns across diverse empirical contexts (Walsh & Downe, 2005). Rather than aggregating numerical results as in meta-analysis, this method emphasizes the construction of interpretive narratives based on recurring themes and conceptual linkages.

Research Design and Selection Criteria

The research process began with a comprehensive literature search conducted between January and March 2025 across multiple academic databases, including Scopus, Web of Science, ScienceDirect, and JSTOR. The following keywords were used in various combinations: “digitalization,” “gig economy,” “rural labor,” “remote work,” “platform work,” “digital transformation,” and “workforce mobility.”

To ensure relevance and quality, the following **inclusion criteria** were applied:

1. Peer-reviewed journal articles published between 2015 and 2024

2. Focus on rural `workforce and digital transformation
3. Studies addressing gig/platform work and labor migration
4. Articles written in English
5. Qualitative or mixed-method empirical studies

Exclusion criteria included purely theoretical papers, studies focused exclusively on urban populations, and articles lacking clear methodological rigor.

Data Analysis Procedure

A total of 28 studies met the inclusion criteria and were subjected to in-depth thematic analysis. The analysis followed Noblit and Hare's (1988) seven-step meta-ethnographic method, including:

1. Identifying the research interest and framing the synthesis question
2. Reading and re-reading selected studies to extract key themes
3. Translating concepts and findings across studies
4. Synthesizing translations into overarching interpretive themes
5. Developing a line of argument that integrates these themes into a conceptual framework

Coding was conducted manually and supported by qualitative analysis software (e.g., NVivo), allowing for cross-case comparison and the emergence of recurring categories.

Trustworthiness and Rigor

To enhance the credibility and dependability of the meta-synthesis, triangulation was employed by involving multiple coders and cross-checking interpretations. Reflexivity was maintained by acknowledging the researchers' positionality, and an audit trail was documented throughout the analysis process to ensure transparency.

The outcome of this meta-synthesis is a thematic consolidation of how digitalization and gig work affect rural workforce mobility, culminating in a conceptual model that captures the dual pathways and policy implications of digital labor transformation in rural contexts.

FINDINGS AND DISCUSSION

The meta-synthesis identified **four major themes** illustrating how digitalization and the gig economy are reshaping rural workforce mobility: (1) Digital Access and Infrastructure, (2) Digital Skills and Labor Readiness, (3) Dual Nature of Workforce Mobility, and (4) Structural Vulnerabilities in the Gig Economy.

Digital Access and Infrastructure: The Gatekeeper of Opportunity

Digital infrastructure was found to be the critical enabler of workforce participation in the digital economy. Studies from Southeast Asia, Sub-Saharan Africa, and Latin America consistently highlighted that rural areas with access to high-speed internet, mobile connectivity, and digital platforms witnessed higher

engagement in online labor markets (Qiang et al., 2020; Rahman & Han, 2022). Without these infrastructures, digitalization efforts remained symbolic and failed to impact labor outcomes. In some regions, public-private partnerships played a decisive role in improving rural internet penetration, thereby expanding labor participation beyond traditional agriculture.

Digital *Skills and Labor Readiness: The Human Capital Challenge*

The success of digital engagement is tightly linked to the digital literacy and readiness of the rural workforce. Several studies observed that although younger rural populations are increasingly tech-savvy, older or low-educated cohorts struggle to adapt to digital tools (Agyapong et al., 2021; Banu & Singh, 2023). Upskilling programs—including digital literacy training, platform onboarding workshops, and online entrepreneurship courses—emerged as critical interventions to improve employability. Countries that integrated digital skills into rural education and vocational programs showed better integration into the gig economy.

Dual Nature of Workforce Mobility: Migration vs. Retention

A nuanced pattern emerged regarding labor mobility. On one hand, digital exposure increased awareness of urban and global labor opportunities, prompting outward migration for better-paying jobs. On the other hand, the gig economy provided remote work alternatives that allowed workers to stay in their hometowns while earning income digitally (Zhou & Lee, 2021; Kapoor et al., 2019). These dual effects challenge traditional push-pull migration models and suggest that digitalization can both accelerate and reduce rural-urban migration, depending on the context and labor demand.

Structural Vulnerabilities: The Precarity of Gig Work

Despite offering flexibility and autonomy, gig economy jobs were found to be precarious, with limited job security, irregular income, and inadequate access to social protections (Wood et al., 2018; Alfers, 2020). Many rural gig workers lacked formal contracts and were excluded from labor rights typically granted to full-time employees. This precariousness is exacerbated in countries lacking legal frameworks to govern platform-based employment. Several studies warned that digital gig work could entrench new forms of inequality if regulatory gaps are not addressed.

Table 1. Summary of Themes Identified in the Meta-Synthesis

Theme	Description	Supporting Studies
Digital Access & Infrastructure	Connectivity and platform access as a prerequisite for participation	Qiang et al. (2020), Rahman & Han (2022)
Digital Skills & Readiness	Importance of upskilling and labor preparedness for digital participation	Agyapong et al. (2021), Banu & Singh (2023)
Dual Nature of Mobility	Digitalization promotes both outward migration and rural labor retention	Zhou & Lee (2021), Kapoor et al. (2019)
Structural Vulnerabilities	Precarity and lack of protection in platform-based rural work	Wood et al. (2018), Alfers (2020)

Conclusion and Thematic Implications

This meta-synthesis reveals a complex and evolving relationship between digitalization, gig economy participation, and rural labor mobility. The evidence from 28 studies illustrates that digital infrastructure and skills development are not merely enablers of employment, but foundational elements for reshaping rural economic resilience and agency.

First, digital access acts as both a catalyst and a filter—those with connectivity can integrate into digital platforms, while the disconnected are further marginalized. Thus, bridging the rural-urban digital divide is a prerequisite for inclusive labor development.

Second, rural workforce participation in digital economies is mediated by digital literacy and labor readiness. Without targeted upskilling interventions, rural populations risk being passive consumers of digital content rather than active producers or entrepreneurs. Educational systems and vocational programs must be reoriented to include platform economy training and digital entrepreneurship modules.

Third, digitalization introduces a dual-direction dynamic in workforce mobility: it can stimulate migration through information exposure and digital job search, yet also anchor populations via remote work and local gig opportunities. Policymakers must understand this paradox and craft mobility-sensitive policies that account for the fluid nature of digital labor engagement.

Fourth, the gig economy, while offering flexibility and new income streams, also introduces structural vulnerabilities. Rural workers are particularly exposed to exploitation due to weak labor protections and lack of collective bargaining mechanisms in the digital platform space. If left unregulated, this may entrench precarity and deepen inequality.

Thematic Policy Implications

From these findings, several thematic policy directions emerge:

1. **Digital Infrastructure Investment:** Prioritize rural broadband expansion and support digital cooperatives that connect workers to platforms with fairer terms.
2. **Upskilling and Capacity Building:** Develop inclusive digital literacy programs and integrate digital competencies into rural education systems.
3. **Local Platform Development:** Support community-based or public-interest digital platforms that balance profit with worker well-being and rights.
4. **Gig Work Regulation:** Establish legal frameworks recognizing gig workers as part of the labor force, ensuring access to health insurance, pensions, and dispute mechanisms.
5. **Mobility-Informed Development Planning:** Align rural development strategies with digital labor patterns to prevent unintended urban overcrowding and rural depopulation.

Proposed Conceptual Model

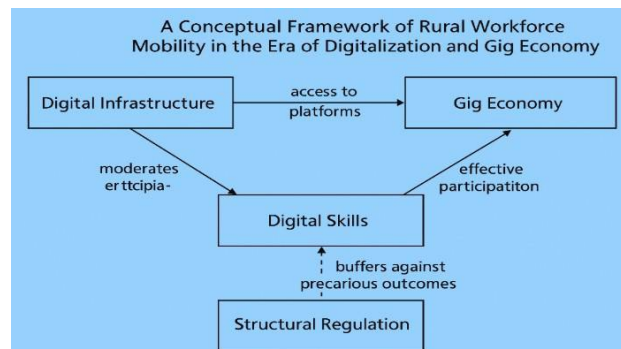


Figure 1: *A Conceptual Framework of Rural Workforce Mobility in the Era of Digitalization and Gig Economy*

This model illustrates the interaction between:

1. Digital Infrastructure → enables access to platforms,
2. Digital Skills → moderates effective participation,
3. Gig Economy → creates dual mobility dynamics,
4. Structural Regulation → buffers against precarious outcomes.

DISCUSSION

The meta-synthesis reveals that digitalization has created new opportunities for rural labor through increased access to platform-based employment. However, the impacts of this transformation are far from homogeneous. Studies conducted in other developing countries—such as India (Sundararajan, 2020), the Philippines (Soriano & Cabañes, 2021), and Kenya (Munyua, 2019)—indicate that the success of the gig economy in enhancing rural labor mobility is strongly mediated by local contextual factors, such as digital infrastructure availability, educational attainment, and gender-based social norms.

For instance, in rural India, the gig economy has been shown to expand women's participation in the digital workforce. However, this outcome largely depends on women's access to digital devices and social acceptance of online work. In contrast, in many parts of Indonesia and Sub-Saharan Africa, female participation in the gig economy remains limited due to cultural barriers, low digital literacy, and the double burden of domestic responsibilities. This suggests that gender acts as a crucial moderating variable in how digitalization influences rural workforce mobility.

In addition, educational level and digital capability play pivotal roles. Research by Suryahadi et al. (2020) highlights that only individuals with at least secondary education and basic digital literacy can effectively engage in online platform work. Disparities in access and skills can further exacerbate digital segmentation, widening the socioeconomic gap between the educated and undereducated rural populations.

Digital infrastructure also remains a significant determinant. Poor internet quality in many rural areas hinders the productivity and feasibility of platform-

based work. Moreover, limited access to electricity and digital devices becomes a major bottleneck to equitable technological adoption. Without substantial state investment in foundational infrastructure, the benefits of the gig economy risk being captured by only a small fraction of the rural population.

More critically, ethical issues and structural inequalities within the rural gig economy deserve close scrutiny. Gig workers often face income insecurity, lack of legal protection, and algorithmic exploitation by digital platforms with no physical presence in their communities. Wood et al. (2019) warn that without fair regulation, the digital economy may reinforce exploitative labor relations and produce a new class of vulnerable, marginalized rural workers.

Therefore, a more inclusive and contextualized policy approach is urgently needed—one that not only expands digital infrastructure and upskilling programs but also ensures social equity, gender justice, and worker protection in digital labor systems. This study contributes by offering an integrative conceptual framework that can inform evidence-based policy interventions for rural workforce development in the era of digital transformation.

In-Depth and Analytical Discussion

Comparative Insights from Developing Countries

Despite growing interest in the gig economy, integrative research that simultaneously examines how infrastructure, education, and gender moderate rural digital labor participation in the Global South remains limited. This meta-synthesis finds that digitalization has expanded rural employment opportunities via access to platform-based work, but the benefits are uneven. Studies from India (Sundararajan, 2020), the Philippines (Soriano & Cabañes, 2021), and Kenya (Munyua, 2019) demonstrate that rural engagement with the gig economy is deeply shaped by local factors such as digital infrastructure, educational access, and gender norms.

Gender as a Moderating Factor

In rural India, digital labor platforms have enabled greater female workforce participation, but outcomes depend on access to digital tools and societal acceptance. In contrast, in regions of Indonesia and Sub-Saharan Africa, women's participation is hindered by cultural barriers, limited digital literacy, and domestic responsibilities. This positions gender as a central moderating variable in the digital labor transformation of rural economies. Understanding how gender roles, expectations, and power dynamics influence digital work access is essential for inclusive policy development.

Role of Education and Digital Capability

Education and digital skills are essential for meaningful gig economy participation. Suryahadi et al. (2020) emphasize that individuals require at least secondary education and basic digital literacy to succeed in online platform work. These gaps reinforce digital segmentation, increasing inequality between digitally skilled and under-skilled populations. This aligns with **Human Capital Theory**, which posits education as critical for productivity and income

enhancement. Without targeted education interventions, the promise of digital work will remain elusive for many rural populations.

Infrastructure as a Structural Constraint

Digital infrastructure—including internet access, electricity, and device availability—remains a structural constraint. Rural areas with poor connectivity or electricity face limited participation in the digital economy. This supports **Institutional Theory**, where labor outcomes depend on enabling environments shaped by governance, policy, and infrastructure. Infrastructure development must be synchronized with capacity building to unlock digital labor potential.

Ethical Dimensions and Labor Vulnerabilities

Ethical issues and precarity are pressing concerns. Gig workers face wage instability, lack of protection, and algorithmic management with little recourse. Wood et al. (2019) caution that without fair regulation, platform labor could reinforce labor exploitation and marginalization. Thus, digital inclusion must be paired with decent work standards and rights protections. The ethical dimension of digital labor must be foregrounded in policy and academic debates.

Integrative Theoretical Reflections

These patterns affirm multiple theoretical frameworks. Human Capital Theory underscores the need for education and skills; Institutional Theory emphasizes the role of supportive policy and infrastructure. The Digital Divide explains persistent access inequalities, while the Capability Approach (Sen, 1999) highlights individuals' real freedoms to pursue meaningful digital work. Together, these lenses offer a holistic understanding of rural labor shifts in the digital era.

Conceptual Contribution and Novelty

This meta-synthesis offers a novel conceptual contribution by integrating multiple structural and individual-level variables—infrastructure, digital literacy, gender norms, and institutional support—into a cohesive analytical framework to explain rural gig economy participation in the Global South. Previous studies often analyze these dimensions in isolation, which limits the explanatory power needed for policy formulation. The novelty of this study lies in its multidimensional and intersectional perspective, emphasizing how the convergence of digital capabilities, socio-cultural factors, and institutional conditions shapes labor inclusion and exclusion.

From a theoretical standpoint, this study goes beyond traditional applications of Human Capital Theory by interweaving it with Institutional Theory, the Digital Divide framework, and Sen's Capability Approach. This theoretical triangulation enables a more context-sensitive understanding of digital labor realities, particularly in underrepresented rural settings. Furthermore, this study contributes to the emerging discourse on “digital labor justice” by embedding ethical considerations—such as fairness, autonomy, and precarity—into the analysis of platform-based employment.

This integrative framework is not only useful for academic theorization but also provides a diagnostic tool for policymakers to identify gaps and design interventions. It encourages a shift from techno-optimism to a critical digital inclusion paradigm that values equity, agency, and long-term livelihood sustainability. In doing so, this work advances both theoretical innovation and practical relevance, addressing key research gaps in digital labor studies.

Research Contribution

This research contributes significantly to the literature on digital labor, rural employment, and inclusive development in several ways:

1. **Theoretical Contribution:** The study presents an integrative framework that bridges Human Capital Theory, Institutional Theory, the Digital Divide framework, and the Capability Approach. This interdisciplinary lens enables a deeper understanding of how digital participation is conditioned by intersecting structural and individual factors.
2. **Empirical Contribution:** By synthesizing diverse studies across multiple developing countries, this work reveals consistent patterns and divergences that help generalize key challenges and opportunities in rural digital labor ecosystems.
3. **Policy Contribution:** The framework offers actionable insights for policymakers by pinpointing levers—such as digital education, infrastructure development, and gender inclusion—that are essential to promoting equitable digital transformation.
4. **Methodological Contribution:** The study models how meta-synthesis can be used as a rigorous, qualitative approach to extract and triangulate findings across heterogeneous digital labor studies in low-resource settings.

Toward Inclusive and Contextualized Policy

An inclusive, context-sensitive policy response is vital. Strategies must not only expand infrastructure and training but also ensure social inclusion, gender equity, and labor protections. Without attention to these dimensions, digital expansion may exacerbate inequality and precarity. Policy must be grounded in local realities and informed by participatory mechanisms.

Policy Implications and Practical Recommendations

The findings of this meta-synthesis necessitate a shift from techno-centric policy design toward a holistic digital inclusion strategy. First, policymakers must recognize that expanding access to digital infrastructure is a foundational but insufficient condition for enabling equitable participation in rural digital labor. Policy should be anchored in the intersectionality of infrastructure, education, and socio-cultural norms—especially gender roles—to address structural exclusion.

Priority should be given to the development of inclusive digital literacy curricula that are context-specific and culturally sensitive. This includes integrating lifelong learning frameworks into rural education systems and leveraging community institutions to deliver training programs tailored to women, youth, and marginalized

groups. Furthermore, institutional mechanisms such as public-private partnerships (PPPs) can mobilize resources and technical expertise for rural digital upskilling.

The regulatory ecosystem must evolve to ensure platform accountability and labor protections. Policymakers should mandate transparency in algorithmic management, enforce minimum wage standards for gig workers, and provide access to dispute resolution mechanisms. Embedding labor rights frameworks within platform governance is essential to prevent the normalization of digital precarity. Local governance structures—such as village-level digital task forces—can serve as intermediaries to monitor, mediate, and mobilize rural participation in the digital economy. Civil society actors and local cooperatives must also be empowered to advocate for inclusive digital work policies. Finally, international development agencies and multilateral organizations should prioritize funding mechanisms that support grassroots digital entrepreneurship, especially in regions with high structural disadvantage.

This multidimensional policy approach moves beyond instrumentalist notions of connectivity and promotes a people-centered digital transformation anchored in equity, dignity, and sustainability.

Future Research Directions

Research gaps remain, particularly in understanding the long-term effects of digital labor on rural livelihoods. Future studies should address intersectionality—exploring the roles of age, disability, and indigenous identity. Mixed-method designs, including ethnography, longitudinal surveys, and quasi-experimental studies (e.g., Randomized Controlled Trials (RCTs), Difference-in-Differences (DiD)), can yield richer causal insights. Research should also investigate:

1. The impact of localized upskilling programs on rural digital labor outcomes;
2. The efficacy of platform cooperatives and their ability to mitigate algorithmic precarity;
3. How platform governance reforms can embed ethical norms such as transparency, worker agency, and fair remuneration.

Moreover, Participatory Action Research (PAR) and Community-Based Participatory Research (CBPR) offer promising frameworks for co-producing knowledge with rural digital workers. Evaluating digital labor platforms using normative policy analysis can help build just and inclusive ecosystems. This meta-synthesis offers a conceptual foundation for these future inquiries.

Limitations and Scope for Generalization

While this meta-synthesis offers integrative insights into the determinants of rural participation in the gig economy across the Global South, several limitations must be acknowledged. First, the synthesis predominantly draws from studies published in English, which may exclude valuable research and perspectives available in regional languages or local grey literature. This potentially narrows the cultural and contextual diversity captured in the analysis.

Second, while the included studies span multiple developing countries, significant geographic gaps remain. There is limited representation from Francophone Africa, Central Asia, and Pacific Island nations, which may face

unique infrastructural, cultural, and institutional challenges. Therefore, the findings may not be fully generalizable to all rural regions globally.

Third, many of the source studies rely on cross-sectional data, limiting causal inference. Although qualitative insights offer depth and contextual richness, they often lack temporal granularity. This is particularly crucial in fast-evolving digital labor environments where platform governance, worker agency, and technology uptake can shift rapidly.

Fourth, the review focuses primarily on supply-side perspectives—workers' access and capabilities—while demand-side dynamics, such as platform design, employer behavior, and algorithmic governance, are comparatively underexplored. This imbalance limits the ability to fully assess how platform structures shape rural labor outcomes.

Finally, the intersectional dimensions of marginalization—especially disability, sexual orientation, and caste—are underrepresented in the literature reviewed. Future research must address these blind spots to provide a more inclusive and equitable analysis of digital labor.

Despite these limitations, this meta-synthesis provides a robust conceptual scaffold for further empirical work and policy engagement. Its analytical value lies not in claiming universal generalizability but in offering a multidimensional lens to interrogate rural digital inclusion in diverse Global South contexts.

Conclusion

This meta-synthesis highlights the uneven yet transformative potential of digital labor platforms in rural economies of the Global South. While digitalization opens new avenues for economic participation, structural constraints such as infrastructure gaps, gendered norms, and educational disparities continue to limit inclusive growth. By integrating multiple theoretical lenses—Human Capital Theory, Institutional Theory, the Digital Divide, and the Capability Approach—this study offers a holistic framework to understand and address these challenges. The proposed conceptual model emphasizes the importance of digital skills, inclusive infrastructure, regulatory safeguards, and contextualized policy design. As countries strive toward equitable digital transitions, it is imperative to center marginalized voices and ensure that gig economy participation does not reproduce precarity but fosters sustainable, dignified livelihoods.

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