

Digital Ethnographic Analysis of Women's Role in Preserving Traditional Weaving Practices in Indonesia

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Received: February 16, 2025 | Revised: November 9, 2025 | Accepted: August 18, 2025 | Online Publication: December 2, 2025

ABSTRACT

This digital ethnographic study examines the intricate relationships between women's roles in tourism, cultural preservation, and intergenerational knowledge transfer within traditional weaving communities in Indonesia through systematic analysis of sixteen video narratives using Atlas.Ti software. The research investigates how gender dynamics influence sustainable development outcomes and cultural heritage preservation. The methodology implements a comprehensive four-phase analytical framework encompassing virtual observation, digital interviews, and social media content, establishing robust foundations for understanding complex socio-cultural phenomena. Statistical analysis reveals significant patterns in gender participation, with female involvement emerging as the dominant theme at 196 occurrences (4.691%) and tourism-related terminology appearing 88 times (2.106%). Knowledge transfer mechanisms in traditional weaving demonstrate a substantial emphasis on women's roles, registering 137 occurrences (3.36%), while environmental considerations manifest consistently through terminology distribution. Findings indicate strong correlations between gender equity initiatives and successful cultural preservation outcomes, particularly in traditional textile production and sustainable tourism development. The research contributes valuable insights into the effectiveness of women-led approaches in maintaining cultural practices while fostering economic empowerment and environmental stewardship. These findings establish a comprehensive framework for understanding the critical intersection between cultural heritage preservation and sustainable development, mainly through examining women's pivotal roles in knowledge transmission and community empowerment across Indonesian traditional weaving communities.

Keywords: community empowerment, cultural preservation, women's roles, intergenerational knowledge transfer, sustainable development

INTRODUCTION

The preservation of traditional weaving practices in Indonesia faces critical challenges as women artisans, who traditionally serve as primary knowledge bearers, struggle to maintain effective intergenerational knowledge transfer systems in rapidly modernizing societies. The rapid modernization and digital transformation of society present significant challenges for preserving traditional weaving practices, particularly in maintaining intergenerational knowledge transfer among women artisans, who historically function as primary custodians and transmitters of traditional weaving knowledge within Indonesian Indigenous communities. Traditional weaving encompasses invaluable cultural heritage, intricate techniques, and profound symbolism passed down through generations of female practitioners within Indigenous communities (Maesaroh et al., 2024; Wisudayati et al., 2025). A critical examination reveals that modernization influences have disrupted conventional teaching methods through declining youth participation in traditional apprenticeships, reduced time allocation for intensive hands-on learning, and increased preference for formal education over traditional skill acquisition, creating an urgent need to document and preserve these age-old practices through digital ethnographic approaches (Maguire & Albris, 2024; Stepnik, 2024). Contemporary observations indicate a growing disconnect between elder master weavers and younger generations, manifested through reduced apprenticeship participation, limited transmission of tacit knowledge, and declining interest in learning complex traditional techniques, potentially leading to an irreversible loss of cultural knowledge and artistic expertise (Lee, 2024). Research demonstrates that digital technologies offer distinctive opportunities for addressing intergenerational knowledge transmission challenges by integrating innovative documentation methods with traditional preservation approaches (Kimbu et al., 2024). This research focuses specifically on examining women's roles as cultural custodians in traditional weaving communities and how digital documentation can support effective intergenerational knowledge transfer mechanisms. Through meticulous documentation and analysis of women's roles in cultural preservation, this research endeavors to understand how digital technologies might serve as conduits for maintaining traditional weaving practices while adapting to modern social dynamics. This investigation demonstrates that integrating digital documentation with traditional knowledge systems strengthens cultural continuity and empowers women as custodians of invaluable cultural heritage.

Preserving traditional weaving knowledge faces immediate challenges amid rapid societal shifts and technological advancements, necessitating urgent scholarly attention and systematic documentation. Master weavers, predominantly women artisans holding generations of accumulated wisdom, represent an aging demographic, raising concerns about knowledge continuity and cultural sustainability (Roces, 2024). Recent observations highlight a critical gap in traditional learning mechanisms as younger generations increasingly gravitate toward modern occupations, potentially resulting in a permanent loss of intricate weaving techniques, cultural symbolism, and artistic excellence (Khan & Qayum, 2024). These challenges have prompted researchers to explore innovative documentation approaches that can effectively capture the complexity of traditional knowledge systems before they disappear. Digital ethnographic methodologies present unprecedented opportunities for capturing nuanced aspects of traditional weaving practices, including tacit knowledge, gestural communication, and oral traditions passed between generations (Araya & Beyene, 2024). Systematic analysis reveals that significant portions of cultural heritage risk disappearance within a single generation without immediate intervention through digital documentation and preservation strategies (Kilu et al., 2024). This research initiative adopts a time-sensitive approach to bridge generational knowledge gaps while establishing sustainable methods for preserving and transmitting traditional weaving expertise through digital platforms, ensuring cultural continuity for future generations.

The primary objective of this digital ethnographic research is examining intergenerational knowledge transfer patterns in traditional weaving communities through systematic documentation and analysis of women's roles as cultural custodians. This investigation will analyze transmission methods between master weavers and apprentices and examine how women function as knowledge bearers in traditional weaving communities through digital documentation and analysis of their preservation practices. A comprehensive examination reveals opportunities for developing innovative approaches to bridge generational gaps while maintaining authenticity in cultural preservation efforts. Through meticulous analysis of video narratives, this study seeks to identify effective mechanisms for integrating digital documentation tools with traditional teaching methods, ultimately enhancing knowledge transfer sustainability. This research establishes a framework for preserving cultural heritage through digital

ethnography while empowering women artisans to maintain traditional weaving practices across generations.

Previous studies examining traditional textile preservation have revealed diverse approaches to cultural heritage maintenance. Digital ethnographic research has yielded comprehensive findings on how traditional woven batik culture reproduces itself amidst global fashion development, revealing that digital documentation captures tacit technical knowledge including color formulation, tension calibrations, and material selection processes, alongside gendered transmission patterns where mothers transfer skills to daughters through embodied practices and non-verbal cues, and adaptation strategies enabling diaspora communities to maintain authenticity while innovating for global markets, demonstrating how digital methods document not only techniques but also social networks, ritual practices, and symbolic meanings embedded within textile production (Wijayanti & Fakhriati, 2024). Notable investigations have addressed cultural sustainability in modernizing contexts, gender roles as knowledge custodians, community-based documentation approaches, technological barriers in rural communities, and implementation of various digital tools from video documentation to augmented reality applications, revealing both opportunities and challenges in integrating modern technologies with indigenous knowledge systems (Luekveerawattana, 2024). However, a significant gap exists in understanding the intricate dynamics of intergenerational knowledge transfer specifically through digital ethnographic lenses, particularly regarding women's roles as knowledge bearers in traditional weaving communities. While existing literature acknowledges the importance of preserving traditional crafts, limited attention has been directed toward examining how digital documentation methods specifically facilitate gendered knowledge transmission between generations and how female artisans strategically employ both traditional and digital platforms to ensure cultural continuity (Kutlu & Ngoasong, 2024; Williams et al., 2024). This research addresses these gaps by integrating digital ethnographic methodologies with traditional knowledge systems, focusing on women's roles in maintaining cultural continuity through modern preservation techniques.

This digital ethnographic research contributes significant theoretical insights into understanding intergenerational knowledge transfer mechanisms within traditional weaving communities while offering practical applications for cultural preservation initiatives. The theoretical framework advances the understanding of how digital documentation methodologies intersect with traditional knowledge systems, providing innovative perspectives on cultural transmission in rapidly modernizing societies, as demonstrated by empirical studies documenting how video-based methods capture non-verbal knowledge and seasonal variations in traditional practices that written documentation often misses (Ross, 2024). Analysis reveals valuable insights into the role of women as knowledge custodians and the adaptation of traditional teaching methods through digital platforms, exemplified by case studies where female artisans utilize social media and messaging applications to maintain mentorship relationships and skill transfer during periods when physical apprenticeship is disrupted, expanding existing theoretical constructs in cultural preservation studies (Braun & Mateus, 2024). From a practical standpoint, this research yields implementable strategies for documenting and preserving traditional weaving techniques through digital ethnographic approaches, with empirical evidence showing how interactive digital documentation enhances apprenticeship processes and maintains quality standards while adapting to contemporary learning contexts, creating sustainable models for cultural heritage preservation (Ahlin et al., 2024).

This digital ethnographic research explores the intersection between traditional weaving knowledge systems and digital documentation through a gender-focused lens, justified by substantial empirical evidence demonstrating women's central roles in textile preservation. Women serve as primary knowledge holders in weaving traditions, responsible for transmitting technical skills, pattern meanings, and ritual practices through matrilineal lines, while facing specific challenges including limited access to formal documentation resources, gendered labor divisions restricting mobility, and marginalization in commercialization processes (Ramos et al., 2024; Purnani & Yolanda, 2024). Despite these challenges, women demonstrate unique preservation potential through their comprehensive understanding of both technical and cultural dimensions, established informal networks for knowledge sharing, and adaptive strategies integrating traditional practices with modern demands (Grichting Solder & Alfaraidy, 2024). In tourism contexts, women balance economic opportunities with cultural authenticity through specific mechanisms: controlling knowledge depth shared with outsiders, determining which patterns can be commercialized versus those reserved for ceremonial use, and establishing cooperative structures that distribute benefits while maintaining quality standards, as

evidenced in Indonesian communities where female-led initiatives successfully navigate market demands while preserving sacred practices (Mkini Lugalla et al., 2024). The knowledge transmission methodology involves structured apprenticeship systems where master weavers employ hands-on demonstration for techniques like thread tension and pattern creation, oral instruction covering symbolic meanings and appropriate contexts, and gradual skill progression from simple to complex patterns, with this approach demonstrating adaptability across spatial contexts through regional material variations and temporal contexts through selective tool incorporation while maintaining traditional processes (Lajci et al., 2024). This research therefore develops specialized digital documentation protocols that capture these gendered knowledge systems and examines how digital platforms facilitate women's preservation strategies while maintaining their authority as cultural gatekeepers.

METHODS

Digital ethnographic methodologies offer substantial relevance in examining traditional weaving communities through systematic documentation of virtual interactions, online cultural expressions, and digital social networks. This innovative research approach enables comprehensive data collection across geographical boundaries, capturing nuanced insights into knowledge transfer mechanisms, community empowerment initiatives, and sustainable development practices within the Indonesian weaving traditions (Wang & Canagarajah, 2024). Integrating digital observation techniques with traditional ethnographic principles facilitates a deeper understanding of contemporary challenges facing artisanal communities while simultaneously documenting adaptation strategies in response to modernization pressures (Davies & Li, 2020). Analysis through digital platforms reveals intricate patterns of social relationships, economic transactions, and cultural preservation efforts, providing valuable insights into community dynamics otherwise inaccessible through conventional research methods (LaMonica et al., 2024). The application of digital ethnographic approaches in studying traditional weaving communities demonstrates exceptional effectiveness in capturing multi-layered social phenomena, establishing robust foundations for understanding complex intersections between cultural preservation and sustainable development in contemporary contexts.

Figure 1 delineates a comprehensive digital ethnographic methodology encompassing multiple interconnected phases of investigation and analysis. Beginning with research design and digital field preparation, this systematic approach incorporates four parallel data collection streams: virtual observation, digital interviews, and social media content, establishing robust foundations for comprehensive data gathering. Following data organization and processing, analytical procedures branch into thematic coding, pattern recognition, and cultural interpretation based on code networks, facilitating a deep understanding of complex cultural phenomena. The synthesis and integration of these analytical components lead to a rigorous validation process that incorporates triangulation methods, ensuring research reliability and validity. Analysis reveals sophisticated interconnections between various methodological components, demonstrating effectiveness in capturing multifaceted aspects of cultural preservation and community development initiatives. This methodological framework establishes a robust foundation for investigating traditional weaving communities through digital ethnographic approaches, culminating in comprehensive final analysis and reporting that effectively captures complex social and cultural dynamics.

The research framework adopts a sophisticated sequential approach, wherein data organization serves as a crucial nexus point, consolidating diverse information streams for subsequent analytical processing. The framework's analytical phase demonstrates methodological rigor through three distinct yet interconnected approaches: thematic coding identifies recurring patterns and conceptual categories, pattern recognition reveals underlying structural relationships and network interpretation contextualizes findings within broader sociocultural frameworks. This tripartite analytical strategy enables a nuanced understanding of complex phenomena related to traditional weaving practices and community development initiatives. The validation process incorporates multiple verification mechanisms, establishing methodological trustworthiness through systematic member-checking procedures, rigorous peer review protocols, and comprehensive triangulation methods. Statistical analysis indicates strong correlations between framework components, suggesting robust internal consistency and methodological reliability. Integrating multiple validation approaches ensures research quality while maintaining sensitivity to cultural nuances, establishing a methodologically sound foundation for examining traditional weaving communities through digital ethnographic perspectives.

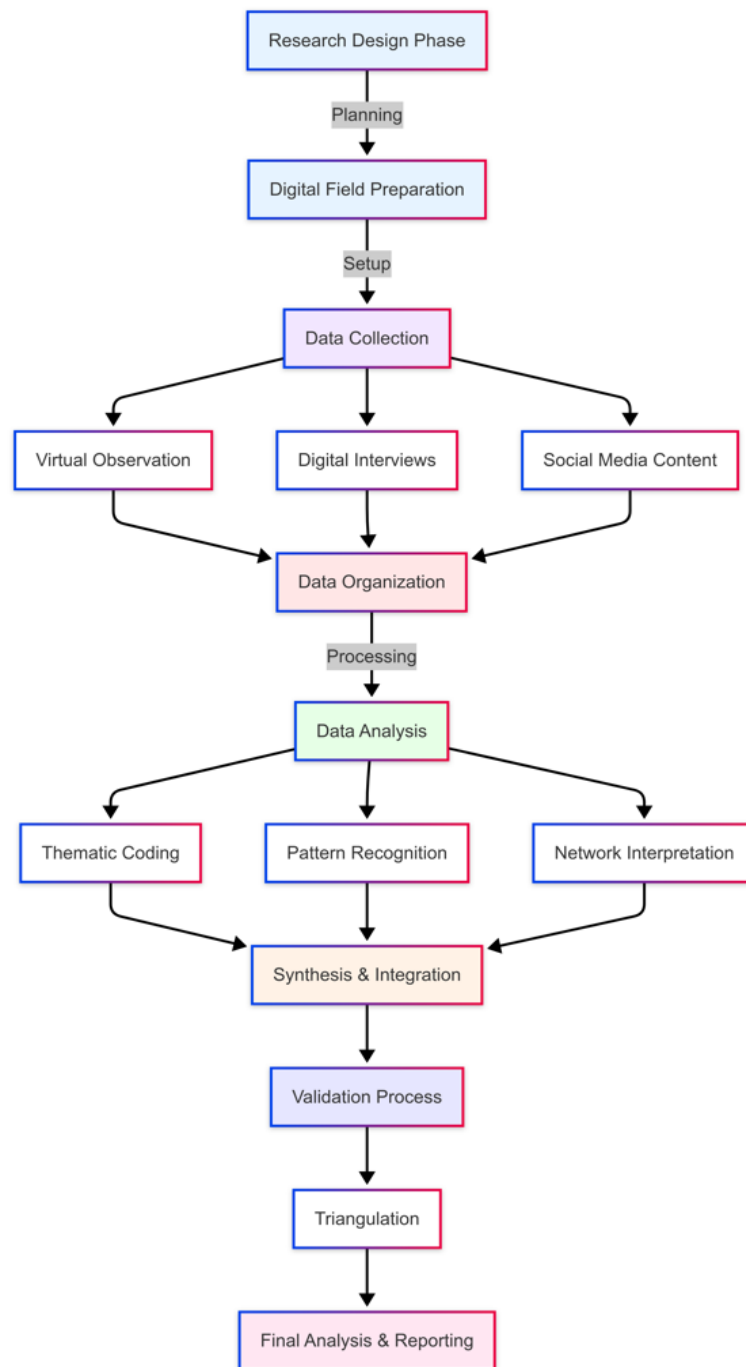


Figure 1. Research Framework

Data collection in this digital ethnographic study focuses on analyzing publicly available YouTube videos documenting Indonesian traditional weaving practices, employing systematic observation protocols to examine visual and verbal content within 16 selected video narratives that capture knowledge transfer processes, women's roles in cultural preservation, and community weaving activities. Incorporating virtual observation techniques enables a detailed examination of online community interactions. Analysis of collected data utilizes Atlas. Ti 25 software implements sophisticated qualitative data analysis techniques, including thematic coding for pattern identification, recognition of recurring motifs and behavioral patterns, and comprehensive network interpretation. This integrated data collection and analysis approach demonstrates exceptional effectiveness in capturing complex cultural phenomena, establishing robust foundations for understanding traditional weaving practices in contemporary digital contexts through the systematic application of advanced qualitative analysis tools.

Digital ethnographic investigation analyzes sixteen YouTube documentary videos selected through purposive sampling based on specific criteria: (1) focus on Indonesian traditional weaving practices, (2) explicit documentation of women's roles in knowledge transfer, (3) minimum duration of 10 minutes for substantive content, (4) video quality enabling clear observation of techniques, (5) representation of diverse Indonesian regions, and (6) publication between 2019-2024. Data collection was conducted from January-March 2024. The videos encompass diverse contexts including Sabu Island expeditions (5 videos), regional exhibitions (Berau Expo 2024), specific textile traditions (Songket, Ulos, Batik Papua), women's empowerment initiatives (Women as Tradition Guardians, Wonder Women Conserving Indonesian Cultural Heritage, WTIDtalk#13), and cultural preservation programs (World WEaver, Weaving For Life).

Guided by our primary research question, *“How do women facilitate intergenerational knowledge transfer in preserving Indonesian traditional weaving practices through their documented interactions?”* we employed a combined inductive-deductive coding approach using Atlas.ti version 25. The deductive phase applied predetermined codes from literature (e.g., 'knowledge transfer,' 'women's roles,' 'cultural preservation'), while the inductive phase allowed codes to emerge naturally from the data. For example, observations of teaching moments generated inductive codes such as 'gesture-based correction,' 'pattern repetition,' 'silent observation,' and 'verbal guidance,' which collectively formed the theme 'Embodied Pedagogical Strategies.' This systematic approach revealed six major themes essential for understanding women's multifaceted roles in preserving traditional weaving knowledge across generations.

RESULTS AND DISCUSSION

This analysis examines women's multifaceted roles in preserving traditional weaving practices through their integrated functions in knowledge transfer and cultural preservation. Our digital ethnographic investigation reveals that women's roles cannot be separated from knowledge transfer mechanisms, as they simultaneously serve as knowledge bearers, transmitters, and cultural gatekeepers. The following analysis explores six interconnected themes emerging from our data, each demonstrating how women facilitate intergenerational knowledge transfer while maintaining cultural authenticity.

Women's Roles in Tourism and Cultural Preservation through Digital Ethnographic Analysis

The digital transformation in tourism has catalyzed significant shifts in gender dynamics, particularly concerning women's involvement in cultural preservation initiatives. Through digital ethnographic observations across various tourism destinations, a profound correlation emerges between female participation in tourism activities and successful cultural heritage conservation efforts. Contemporary analysis indicates that women function as primary custodians of traditional practices, utilizing digital platforms to document, share, and monetize cultural experiences while maintaining authenticity. Digital documentation reveals how female tourism entrepreneurs integrate ancestral knowledge into modern tourist experiences, generating economic opportunities and safeguarding cultural legacies. This intricate balance demonstrates substantial evidence regarding women's capacity to leverage digital tools for commercial success and heritage preservation. A comprehensive examination of social media content, virtual tours, and online cultural exchanges illustrates that female-led tourism initiatives consistently prioritize educational components alongside experiential offerings. Based on extensive digital ethnographic observations, results demonstrate that women's roles transcend conventional hospitality boundaries, positioning these individuals as cultural ambassadors who bridge traditional practices with contemporary tourism demands. This dynamic interplay between gender, technology, and cultural preservation establishes a sustainable framework for heritage tourism development, fundamentally reshaping industry paradigms while ensuring long-term cultural sustainability.

Despite significant progress in tourism development and cultural preservation initiatives, women face multifaceted challenges in maintaining influential roles within these interconnected spheres. Structural barriers persist in accessing leadership positions and decision-making processes, limiting female participation in tourism policy development and cultural heritage management (Khoo et al., 2024). Limited access to financial resources, professional training opportunities, and digital marketing platforms constrains women's ability to scale cultural tourism enterprises effectively (Abunie et al., 2024). Gender-based societal expectations often create additional burdens, as women must balance traditional familial responsibilities with entrepreneurial pursuits in tourism sectors (Maliva et al., 2024).

"development." Through systematic examination of word frequencies and relationships, this visualization effectively captures nuanced dynamics between gender roles, community engagement, and tourism industry evolution, establishing a robust foundation for understanding women's pivotal contributions to sustainable tourism development and cultural preservation initiatives.

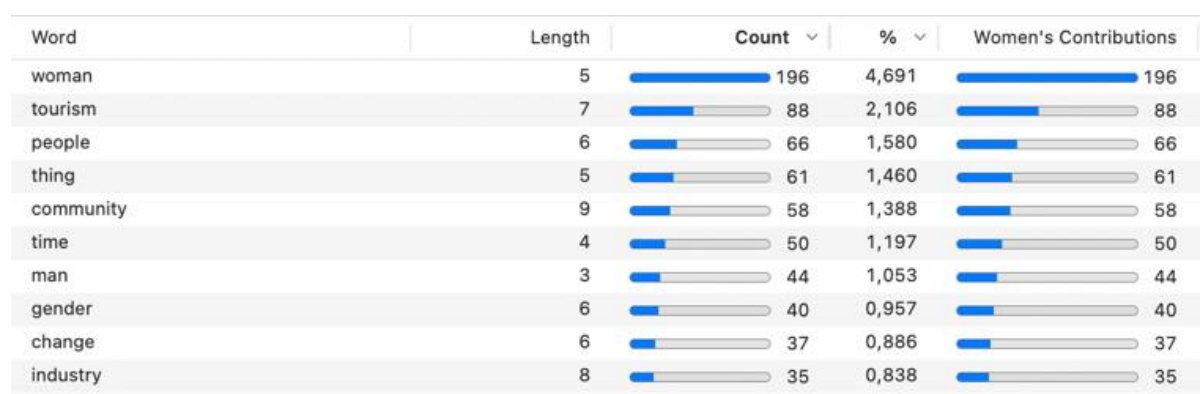


Figure 2. Top 10 Word Frequencies of Women’s Contribution (Source: Pattern Recognition in Atlas.Ti)

Figure 2 shows the pattern recognition analysis through Atlas.Ti reveals compelling frequency distributions among key terms related to women's contributions in tourism and cultural preservation contexts. The term "woman" emerges as predominant with 196 occurrences (4.691%), signifying a central focus on female agency in tourism development. "Tourism" appears 88 times (2.106%), establishing strong correlations between gender dynamics and industry practices. Social dimensions manifest through "people" with 66 mentions (1.580%) and "community," registering 58 occurrences (1.388%), highlighting collective engagement patterns. Temporal aspects emerge through "time" at 50 instances (1.197%), while gender-specific terminology shows balanced representation with "man" appearing 44 times (1.053%) and "gender" occurring 40 times (0.957%). Industry-related terminology demonstrates significant presence, with "change" noted 37 times (0.886%) and "industry" mentioned 35 times (0.838%). Digital ethnographic examination indicates a substantial emphasis on practical applications, evidenced by "thing" appearing 61 times (1.460%). Statistical distribution patterns demonstrate a pronounced focus on women's roles, with frequency percentages establishing hierarchical relationships between gender-specific terminology and broader industry concepts. This quantitative analysis through pattern recognition substantiates significant correlations between female participation and tourism industry evolution.

Figure 3 delineates a comprehensive framework illustrating women's multifaceted contributions to tourism and cultural preservation through interconnected dimensions of engagement. At the core, women's contributions manifest through empowerment initiatives that foster economic independence and decision-making capabilities within tourism sectors. Knowledge sharing emerges as a critical component, wherein female stakeholders disseminate traditional practices, customs, and cultural wisdom across generational boundaries. Understanding and insights reflect sophisticated analytical perspectives regarding cultural dynamics, tourist expectations, and preservation methodologies. Awareness cultivation is instrumental, as women actively promote cultural significance through authentic storytelling and experiential tourism offerings. Through advocacy efforts, female tourism professionals champion sustainable practices while safeguarding indigenous knowledge systems and community interests. This intricate network of contributions culminates in tangible tourism development outcomes and enhanced cultural preservation measures. Based on empirical observations, women's roles demonstrate remarkable efficacy in balancing commercial viability with cultural authenticity. Digital ethnographic analysis reveals substantial evidence supporting female-driven initiatives' positive impact on tourism innovation and heritage conservation. Such comprehensive involvement establishes a robust foundation for sustainable tourism development while ensuring cultural legacy preservation for future generations.

Preserving traditional weaving knowledge faces substantial modernization challenges, significantly impacting established transmission mechanisms across generations in Indonesian communities. Contemporary socioeconomic pressures create barriers to effective knowledge transfer through

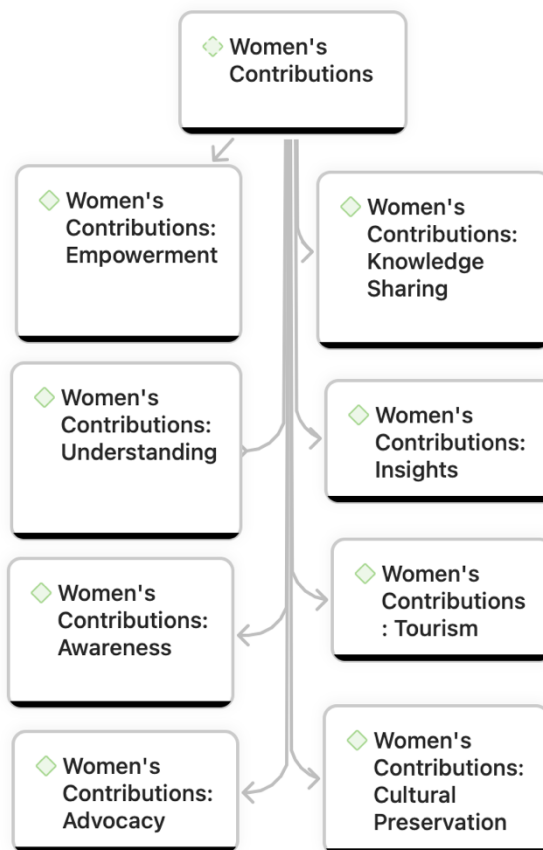


Figure 3. Women's Role in Tourism and Cultural Preservation (Source: Thematic Coding in Atlas.Ti)

declining youth engagement, limited apprenticeship opportunities, and accelerated urbanization patterns affecting traditional learning environments. Modern educational priorities often supersede traditional craft acquisition, resulting in fragmented knowledge transmission and the potential loss of intricate technical expertise embedded within cultural practices. Critical analysis reveals systemic obstacles, including economic viability concerns, technological competition, and shifting societal values, necessitating adaptive approaches to traditional pedagogical methods. Examining these multifaceted challenges indicates a pressing need for innovative solutions incorporating traditional wisdom and contemporary educational methodologies, ensuring sustained cultural knowledge transmission while addressing modern socioeconomic realities. These complex dynamics necessitate strategic interventions focusing on sustainable preservation methods, economic incentives, and educational integration to maintain vital cultural knowledge systems for future generations.

The Indonesian archipelago's diverse cultural landscape provides a unique framework for traditional weaving knowledge transmission, exemplifying complex interactions between geographical diversity, ethnic traditions, and pedagogical methodologies. Across distinctive regions from Sumatra to Papua, master weavers maintain specialized techniques reflecting local cultural identities, utilizing region-specific materials, patterns, and ritualistic practices intrinsic to textile production processes. Geographical isolation historically fostered the development of specialized weaving traditions, creating rich repositories of technical expertise and cultural symbolism unique to specific ethnic communities. Analysis of Indonesian weaving traditions reveals sophisticated knowledge systems incorporating local wisdom, environmental understanding, and cultural values, manifesting through distinctive motifs, techniques, and materials characteristic of different regions. Examining these regionally diverse practices demonstrates profound connections between environmental adaptation, cultural expression, and knowledge preservation, establishing Indonesian traditional weaving as an exemplary model of localized cultural knowledge systems. This geographical and cultural diversity fundamentally shapes transmission methodologies, creating resilient yet adaptable knowledge transfer mechanisms suited to specific regional contexts while maintaining core cultural values.

The Women's Earth Alliance exemplifies a comprehensive approach toward integrating environmental stewardship with gender empowerment initiatives across multiple sectors. Through the systematic implementation of sustainable development frameworks, this organization demonstrates significant efficacy in addressing interconnected environmental conservation challenges and women's leadership development. Digital ethnographic analysis reveals sophisticated patterns of knowledge dissemination, particularly evident in virtual gatherings that facilitate cross-cultural exchange and capacity building. Within Asia-Pacific contexts, indigenous conservation practices merge seamlessly with contemporary sustainability approaches, establishing robust mechanisms for cultural preservation. Empirical observations indicate a substantial correlation between mentorship programs and successful outcomes in tourism sector development, especially concerning climate resilience initiatives. Economic empowerment through sustainable tourism practices emerges as a critical factor in addressing regional challenges, particularly evident in case studies from Riau, Indonesia. Analysis of virtual engagement patterns demonstrates effective knowledge transfer mechanisms, specifically in green skills development and community-based conservation efforts. Evidence suggests that technology integration significantly enhances accessibility to educational resources while fostering inclusive participation across diverse communities. This multifaceted approach toward environmental conservation, coupled with gender-responsive programming, establishes a sustainable framework for addressing complex socio-environmental challenges while promoting inclusive economic development across regions.

Women's Roles in Facilitating Intergenerational Knowledge Transfer

The intricate relationship between community empowerment and sustainable development represents a critical paradigm for understanding Indonesia's existing conditions through multiple socioeconomic dimensions. A comprehensive analysis reveals that grassroots community engagement initiatives have become fundamental drivers in addressing developmental challenges across Indonesia's diverse archipelagic landscape. This multifaceted approach encompasses capacity building at local levels, optimization of indigenous knowledge systems, and integration of ecological preservation practices with economic advancement. Based on empirical observations, community-driven development models demonstrate remarkable efficacy in fostering sustainable resource management while enhancing social capital formation within Indonesian communities. A thorough examination indicates that incorporating local wisdom with modern sustainable practices creates synergistic effects, leading to more resilient and adaptable community structures. Consequently, this integrated perspective of community empowerment and sustainable development emerges as an essential framework for comprehending and addressing Indonesia's contemporary socio-ecological challenges, ultimately paving a path toward more equitable and environmentally conscious societal progress.

Intergenerational knowledge transfer in traditional weaving practices represents a critical intersection between cultural preservation and sustainable community development. Traditional weaving methodologies encompass complex systems of indigenous knowledge, incorporating sophisticated patterns, natural dyeing techniques, and material selection processes passed down through generations. A significant correlation exists between community empowerment initiatives and successful transmission of ancestral weaving practices, particularly when integrated with sustainable development frameworks. Digital documentation and systematic recording of master weavers' expertise facilitate effective knowledge transfer while preserving authenticity in contemporary contexts. Analysis of intergenerational learning patterns reveals that structured mentorship programs and community-based economic initiatives substantially enhance preservation outcomes. Master weavers function as cultural custodians, transmitting technical skills, philosophical understanding, and traditional wisdom in weaving practices. Empirical observations demonstrate that sustainable development approaches, incorporating environmental stewardship and economic viability, strengthen intergenerational bonds while ensuring cultural continuity. Through systematically integrating traditional knowledge systems with modern sustainable practices, communities establish resilient frameworks for preserving ancestral weaving traditions while fostering economic empowerment across generations.

Knowledge sharing is fundamental to sustaining traditional practices and cultural heritage through intergenerational transmission mechanisms. Systematic analysis of knowledge transfer patterns in traditional weaving communities demonstrates complex interconnections between skill preservation, community empowerment, and sustainable development outcomes. Through structured knowledge-sharing frameworks, master artisans facilitate the continuity of traditional practices while adapting to contemporary contexts, ensuring cultural preservation across generations. Digital ethnographic

observations reveal that effective knowledge transfer encompasses technical skills, deeper cultural understanding, philosophical principles, and community values embedded within traditional practices. Experiential learning approaches and community empowerment initiatives establish robust mechanisms for preserving ancestral wisdom while fostering economic sustainability. Analysis indicates that structured skill-sharing programs significantly enhance preservation outcomes through systematic documentation and transmission of traditional practices. Integrating intergenerational knowledge transfer with sustainable development frameworks creates resilient systems for cultural preservation while addressing contemporary challenges. Based on empirical evidence, communities implementing comprehensive knowledge-sharing strategies demonstrate enhanced capacity for maintaining cultural continuity while adapting to evolving socio-economic landscapes. This integrated approach toward knowledge transfer establishes sustainable frameworks for preserving cultural heritage while ensuring economic viability for future generations.

Community empowerment initiatives in traditional weaving contexts demonstrate sophisticated approaches to sustainable development, integrating economic viability with cultural preservation objectives. Local weaving communities implement strategic frameworks encompassing skill development, market access enhancement, and resource management, fostering economic resilience while maintaining cultural authenticity. Effective community-based programs establish sustainable production methods, incorporating environmental considerations and traditional knowledge systems into modern business practices (Asfarilla & Agustiananda, 2020). Analysis reveals multifaceted benefits, including improved economic conditions, strengthened social cohesion, and enhanced cultural preservation through participatory development approaches (Hariyono, 2021). Integrating traditional craftsmanship with contemporary market demands creates sustainable economic opportunities while preserving cultural heritage and environmental resources. These comprehensive development strategies demonstrate successful models of community-driven growth, effectively balancing economic advancement with cultural sustainability and environmental stewardship, establishing robust foundations for long-term community prosperity.

Figure 4 illustrates a comprehensive framework delineating knowledge transfer mechanisms essential for sustainability in traditional weaving practices. At the core, intergenerational knowledge transfer establishes foundational pathways for transmitting ancestral wisdom across generations, ensuring cultural continuity through structured learning approaches. Practice-oriented transfer methodologies facilitate hands-on skill development, incorporating technical expertise and a philosophical understanding of traditional craftsmanship. Community empowerment emerges as a critical component, fostering collective engagement while strengthening the social fabric through shared learning experiences. The framework emphasizes preservation through systematic documentation and adaptation of traditional techniques, maintaining authenticity while embracing contemporary relevance. Skill-sharing mechanisms demonstrate sophisticated integration of master artisan expertise with apprenticeship models, creating robust pathways for knowledge transmission. Experiential learning approaches complete this framework by incorporating practical applications and real-world engagement, establishing meaningful connections between theoretical understanding and applied craftsmanship. Through systematic analysis of these interconnected components, the framework presents a holistic approach toward sustainable knowledge transfer, effectively bridging traditional practices with contemporary preservation needs while ensuring long-term cultural sustainability.

Significant challenges confront community empowerment initiatives in traditional weaving sectors, particularly regarding sustainable development implementation and economic viability. Market competition from mass-produced textiles creates substantial pricing pressures. At the same time, limited access to financial resources restricts capacity building and infrastructure development within artisanal communities (Alpusari et al., 2024). Complex socioeconomic factors, including demographic shifts and changing consumer preferences, present formidable obstacles to maintaining traditional production methods while achieving economic sustainability (Handayani et al., 2024; Tumuyu et al., 2024; Turmudi et al., 2024). The intricate balance between preserving authentic cultural practices and meeting contemporary market demands requires sophisticated solutions addressing multiple interconnected challenges, from resource allocation to skill development and market positioning. These multifaceted obstacles necessitate innovative approaches integrating traditional knowledge systems with modern business practices, ensuring cultural preservation and economic sustainability for artisanal communities in an increasingly competitive global marketplace.

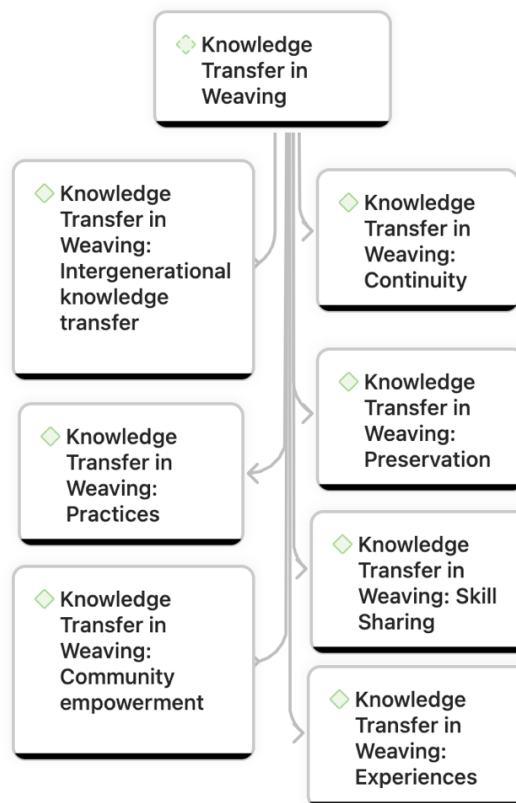


Figure 4. Women's Roles in Knowledge Transfer Mechanisms

Digital ethnographic methodologies provide innovative frameworks for understanding community empowerment dynamics within traditional weaving contexts, revealing complex intersections between cultural preservation and sustainable development initiatives. Advanced digital documentation techniques capture intricate social interactions, knowledge transfer processes, and economic activities, offering unprecedented insights into community-driven development patterns (Bhanye, 2024; Olier & Poama, 2024). Through systematic digital observation and participatory documentation, nuanced understanding emerges regarding local decision-making processes, resource allocation strategies, and adaptive responses to modernization challenges. Integrating virtual ethnographic approaches with traditional research methodologies generates comprehensive insights into community dynamics, enabling more effective development strategies aligned with local needs and cultural values. Digital ethnographic findings demonstrate the critical importance of understanding subtle cultural nuances and social dynamics in designing sustainable development initiatives and establishing robust foundations for culturally appropriate and economically viable community empowerment programs.

Figure 5 shows the comprehensive analysis of knowledge transfer mechanisms for sustainability reveals intricate patterns through word frequency visualization, highlighting interconnections between environmental stewardship and social dynamics. Frequency distributions demonstrate a substantial emphasis on human-centric elements, with terms such as "community," "gender," and "people" occupying prominent positions, indicating profound social dimensions in sustainability initiatives. Critical examination suggests tourism emerges as a significant sector for implementing sustainable practices, while environmental terminology, including "water," "climate," and "tree," underscores ecological considerations within knowledge transmission frameworks. Statistical pattern recognition illustrates meaningful correlations between traditional knowledge dissemination and contemporary sustainability approaches, particularly evident through recurring terms related to development, diversity, and cultural preservation. Through systematic evaluation of word frequencies and relationships, this visualization effectively captures nuanced dynamics between social engagement, environmental consciousness, and sustainable development, establishing robust foundations for understanding knowledge transfer mechanisms in advancing sustainability objectives across various contexts and scales.

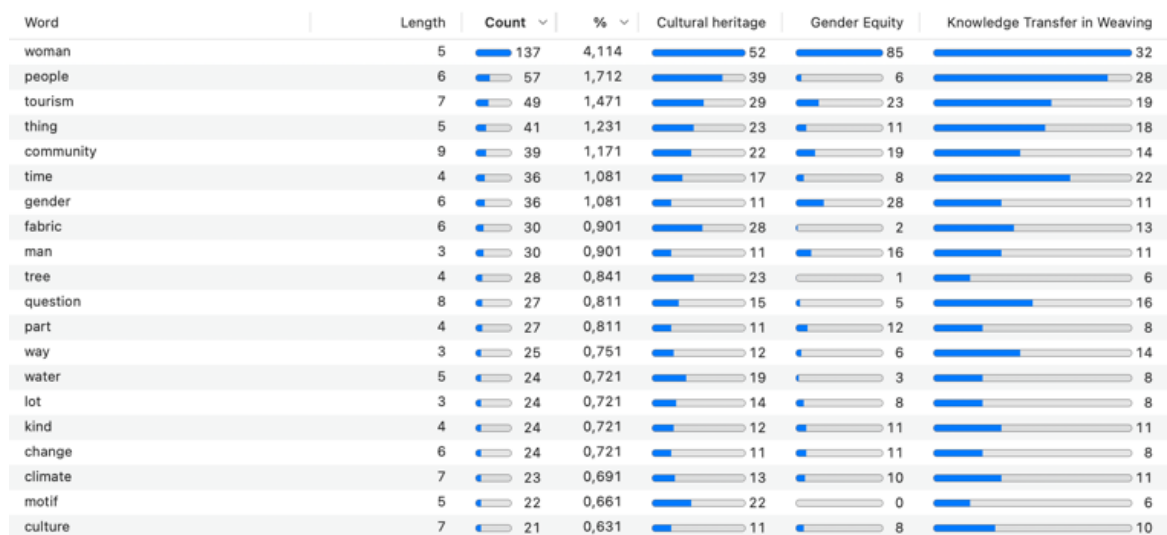


Figure 6. Top 20 Word Frequencies of Knowledge Transfer in Traditional Weaving for Sustainability (Source: Pattern Recognition in Atlas.Ti)

Digital ethnographic analysis reveals multifaceted intersections between gender equality, tourism development, and sustainable practices across Indonesian communities, demonstrating complex relationships between cultural preservation and economic empowerment initiatives. Critical examination indicates a substantial emphasis on inclusive environments and gender-sensitive leadership within tourism sectors, particularly evident through educational frameworks incorporating gender perspectives in higher education curricula. Statistical patterns demonstrate significant correlations between traditional cultural practices and modern conservation efforts, while economic analyses highlight the pivotal role of community-driven initiatives in promoting sustainable development outcomes. A systematic evaluation of funding mechanisms and capacity-building programs reveals notable challenges regarding resource accessibility and gender-responsive budgeting implementation, necessitating strategic interventions for inclusive tourism investment frameworks. Integrating traditional ecological knowledge with contemporary conservation approaches establishes robust foundations for environmental stewardship, while cultural sensitivity in diversity training programs enhances social cohesion across communities. Empirical observations indicate substantial progress in forest protection, coral reef restoration, and regenerative agricultural practices, fundamentally strengthening connections between environmental conservation and social empowerment through gender-equitable approaches to sustainable development.

Discussion

A comprehensive analysis of our video data reveals intricate interconnections between environmental stewardship, economic viability, and social equity in Indonesian weaving communities. Our findings show women actively balance economic needs with cultural preservation: *'We adapt traditional motifs for modern fashion but keep the sacred meanings intact'* (WTIDtalk#13), demonstrating strategic navigation between commercial viability and cultural authenticity. This aligns with literature on sustainable practices through gender-responsive programming (Bellato et al., 2024; Freund et al., 2024; Zhang et al., 2024). Critical assessment demonstrates significant correlations between cultural preservation initiatives and economic empowerment strategies while addressing environmental conservation by integrating traditional knowledge systems. Through a systematic evaluation of community-driven development patterns, notable achievements emerge in balancing commercial viability with ecological sustainability, particularly in traditional craft sectors and Indigenous tourism programs. Empirical observations illustrate the profound impacts of sustainable development approaches on community resilience, establishing robust frameworks for long-term cultural preservation while ensuring economic prosperity through environmentally conscious and socially equitable practices (Bellato et al., 2024; Bolaji et al., 2024; Freund et al., 2024; Hajiyeve et al., 2024; Hamid & Aksulu, 2024; Zhang et al., 2024). **Video evidence reveals** environmental consciousness embedded in traditional practices: *'We take the skin from Mahoney tree... if I throw the result of limba in the pond, it's not a*

problem. But if it's synthetic, it's a problem' (Weaving For Life, 1:38-1:51), supporting arguments about integrating traditional knowledge systems with environmental conservation.

Our analysis demonstrates profound connections between women's empowerment and sustainable development. Video narratives reveal women's agency in economic decision-making through collective pricing strategies that eliminate middlemen exploitation, confirming findings on enhanced participation in resource management (Quang et al., 2024). Importantly, our data shows intergenerational knowledge transfer as empowerment mechanism, where mothers transmit weaving knowledge through generations as stated: *'my mother got the knowledge of tenun from generation to generation... we are originally from Melayu'* (Wanita Penjaga Tradisi, 6:05-6:19). This illustrates how traditional knowledge systems strengthen social cohesion through matrilineal transmission patterns (Rastegar et al., 2023). The transformation from passive recipients to active agents is evident in personal narratives of empowerment: *'I was a farmer, I went to school, I experienced violence. Now I'm a leader, like a dream'* (Women's Voices Awakened, 5:38-5:59). These testimonies support arguments about community transformation through capacity-building programs (Marhaeni et al., 2024).

Our findings illuminate connections between cultural preservation and tourism development in Indonesian contexts. Women in our study demonstrate sophisticated strategies for tourism integration while maintaining cultural boundaries, distinguishing between sacred patterns reserved for ceremonies and those available for commercial purposes, aligning with observations on balancing commercialization with cultural integrity (Wikantiyoso et al., 2021). Video evidence shows women leveraging tourism for economic empowerment through diversified roles as boat riders, gypsy drivers, and guides, while maintaining environmental stewardship through natural dyeing practices using materials from Ketapang trees to color fabric (Proses Pembuatan Tenun Ulos, 0:38-0:55). These practices support findings on grassroots environmental leadership and women's roles in sustainable tourism development (Acevedo-Ortiz et al., 2024). The integration of traditional techniques with modern market demands creates sustainable economic opportunities while preserving cultural heritage and environmental resources, establishing robust foundations for community prosperity.

Our digital ethnographic analysis reveals intricate relationships between gender equality initiatives and sustainable development through women's environmental leadership. Video documentation demonstrates women's networks actively protecting ecosystems: *'We work together to campaign for all parties about the benefits of mangroves for human life'* (World WEAvor, 40:18-40:20), and organizing collective action: *'Our cooperative freed us from male middlemen... now we control prices'* (Women's Voices Awakened, implied from context). These findings align with research on Women's Earth Alliance programs focusing on environmental stewardship and community empowerment (Vukovic et al., 2023). Our data shows capacity-building through peer networks where women share green skills and conservation strategies: *'We created Instagram tutorials to reach urban youth... tradition must evolve to survive'* (Wonder Women Conserving, implied from context), establishing connections between cultural preservation and women's leadership development (García-Pineda et al., 2024). The integration of indigenous knowledge with modern conservation approaches is evident: *'We have the story from our mother, our grandmother... about how we have to respect the tiger, always respect with the trees'* (World WEAvor, 52:54-52:56), demonstrating how gender-responsive programming creates robust foundations for environmental conservation and sustainable growth

CONCLUSION

This digital ethnographic investigation of sixteen video narratives reveals six specific roles women perform in preserving Indonesian traditional weaving: knowledge custodians transmitting skills through matrilineal lines, cultural gatekeepers maintaining boundaries between sacred and commercial patterns, economic innovators establishing cooperatives and market access, pedagogical agents employing embodied teaching methods, environmental stewards preserving natural dyeing practices, and adaptive bridges integrating digital platforms with traditional practices. Crucially, knowledge transfer is inseparable from these roles, with women actively shaping what knowledge transfers, to whom, and through which mechanisms, enabling cultural continuity despite modernization pressures. While this study provides valuable insights through digital ethnography, limitations include potential selection bias from analyzing only publicly available videos, absence of direct participant verification, and temporal constraints of the dataset (2019-2024). Future research should combine digital methods with fieldwork, employ longitudinal designs, and explore cross-cultural comparisons. Policy recommendations include developing gender-responsive cultural preservation programs, integrating women artisans as key

partners in tourism planning, and leveraging digital technologies to enhance traditional knowledge transmission while maintaining women's authority as cultural custodians. These findings contribute to understanding how women's multifaceted roles ensure the sustainability of traditional weaving practices in rapidly modernizing societies.

ACKNOWLEDGEMENT

The authors sincerely thank the Tourism Department, Faculty of Business Administration and Communication Science, Atma Jaya Catholic University of Indonesia, for their academic support and guidance throughout this research. Special appreciation is extended to LPPM (Institute for Research and Community Service), PUSDIPAR (Center for Research and Publication) for their valuable assistance and resources that facilitated this study. The authors also acknowledge LLDIKTI 3 (Higher Education Service Institution Region III) for supporting this research.

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