

# Integrating Local Wisdom for Sustainable Forest Community Empowerment: Lessons From Indonesia and Malaysia

Ida Afidah<sup>1\*</sup>, Chairiawaty<sup>2</sup>, Salma Hasna Zulfa<sup>3</sup>

<sup>1,2,3</sup> Faculty of Da'wah and Communication, Bandung Islamic University, Indonesia

\*[ida.afidah@unisba.ac.id](mailto:ida.afidah@unisba.ac.id) (Corresponding author)

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## ABSTRACT

This research aims to explore the intrinsic local wisdom values and socioeconomic characteristics underpinning community empowerment through the utilization of social forest resources. Employing a case study approach in both Indonesia and Malaysia, the investigation encompasses an analysis of five pivotal empowerment indicators, encompassing empowerment modalities, guiding principles, sequential stages, and influential factors. The study reveals the following key findings: First, social and economic characteristics. The social characteristics encompass community engagement, the preservation of old-style information and does, societal consistency, gender inclusivity, and the establishment of community-based institutions. In parallel, the economic dimensions manifest as livelihood diversification, sustainable forest management, access to markets, capacity building and training, and microfinance and credit access. Second, empowerment initiatives. Both Indonesia and Malaysia concentrate their empowerment efforts on the seamless integration of Local Wisdom into sustainable forest management, conservation endeavors, and community livelihood programs, thereby ensuring effective and culturally sensitive outcomes. The local wisdoms that feature prominently in the empowerment programs for forestry communities in Indonesia and Malaysia include traditional ecological knowledge, medicinal plant knowledge, agroforestry practices, sacred forests and rituals, community forest management systems, and others. These findings illuminate the multifaceted dimensions of local wisdom and socioeconomic attributes that play a pivotal role in the empowerment of forest-dependent communities in the context of Indonesia and Malaysia.

**Keywords:** Community empowerment, Forestry, Indonesia, Local wisdom, Malaysia

## Introduction

The forests of Indonesia and Malaysia are home to communities that have developed deep connections with their environment, relying on it for their livelihoods, cultural practices, and social structures. These communities possess a wealth of traditional knowledge and practices that have been passed down through generations. However, despite the rich cultural heritage and resources available to them, these communities often face significant challenges, including poverty, limited access to education, and a lack of formal support structures. Addressing these challenges requires a focus on community empowerment that not only improves their socio-economic conditions but also integrates and respects their indigenous wisdom.

Despite numerous initiatives aimed at community empowerment, many of these programs fail to fully recognize the unique social and cultural characteristics of forest-dependent communities. Current efforts often overlook the importance of integrating local wisdom into empowerment strategies,

resulting in programs that are not fully aligned with the needs and values of the communities they aim to support. This gap in the existing research highlights the need for a deeper understanding of how local wisdom can be effectively incorporated into empowerment initiatives, ensuring that these programs are sustainable and culturally sensitive

Forests and forestry play a pivotal part in lack alleviation endeavors by augmenting revenue, enhancing nourishment safety, mitigating susceptibility, and bolstering the sustainability of usual resources, thereby ameliorating the well-being of individuals (Warner, 2000). Nevertheless, the stark reality persists that poverty persists in forest-dwelling communities, particularly those endowed with local wisdom and customary forests. Approximately 48.8 million individuals inhabit state forest lands, and a significant portion, approximately 10.2 million, grapple with poverty (Brown, 2004; Wiyono et al., 2020). Focusing on the inhabitants of forest regions is imperative for effective poverty alleviation. In line with the global Sustainable Development Goals (SDGs), poverty eradication is underscored as the foremost objective, encapsulated in SDG 1, “No Poverty.” This underscores the necessity of pursuing poverty reduction at the local level through inclusive and sustainable means (Surya et al., 2021). The transformation in forest management and the enhancement of the livelihoods of forest-dependent communities reflect a shift in the government’s approach from a centralized, state-controlled, wood-centric forestry development paradigm to a community-based forest management paradigm (Awang, 2003; Speer et al., 2001). This transition empowers communities to take charge of their own progress (Rupp et al., 2020).

Scheyvens (2000) contends that social empowerment can be nurtured through active involvement in communal organizations (Mulyadin et al., 2023). When communities engage collectively in shared activities, it fosters a sense of unity and mutual support, enhancing social dynamics and facilitating economic empowerment. Social empowerment encompasses together outside and interior dimensions (Ramadhan & Amalia, 2021). Outside authorisation involves the provision of life skills, enabling communities to enhance their economic standing (Bocci & Mishra, 2021). However, internal fortification is equally indispensable, as it brings about a shift in mindset and an upsurge in self-motivation. The internalization of cultural values serves as a potent means to cultivate unity, empathy, and cooperation (Jupp et al., 2010). As elucidated by Ahimsa-Putra (2008), local wisdom constitutes a repository of knowledge and practices transmitted across generations and shaped by interactions with the environment and other communities within a specific geographical context. Local wisdom is harnessed to address a myriad of challenges and difficulties.

Numerous studies have explored the application of local wisdom in community empowerment, particularly in maritime communities. For instance, Zamzami (2016) emphasizes the importance of integrating local wisdom to support efforts in preserving coastal and marine environments. Although the Indonesian government has given limited attention to the maritime culture of fishing communities, traditional practices like “Sasi” in Maluku and “Bapongka” in Sulawesi continue to endure, helping to maintain these ecosystems. Institutions such as the Kewang in Maluku and Panglima Laot demonstrate how local participation plays a crucial role in overcoming modern challenges and preserving marine and coastal ecosystems.

In forested regions, effective community empowerment programs require a deep understanding of the local wisdom values unique to each community. This research, supported by collaborations like those between Bandung Islamic University (UNISBA) and the University of Malaysia, aims to develop models of community empowerment grounded in local wisdom. Such programs are essential for addressing challenges like poverty, limited knowledge, and low self-confidence in forest-dwelling communities (Sulistiyan, 2004; Joseph, 2020). By fostering principles of solidarity, harmony, and collaboration, these initiatives seek to enhance community well-being, sustain forest ecosystems, and preserve cultural practices (Effendi, 2010; Nassar et al., 2023).

The outcomes of this research stand to contribute significantly to the reinforcement of local wisdom within social forest areas in both Indonesia and Malaysia. These contributions are anticipated to trigger

positive transformations in community social behavior, fostering sustainable forest management, increasing income, enhancing community welfare, and ameliorating forest ecological conditions. This collaborative research initiative holds the potential to advance scientific knowledge, benefiting both Bandung Islamic University (UNISBA) and the University of Malaya (UM), thereby furthering the scholarly enterprise at both institutions.

### **Literature Review**

#### *Empowerment Concept*

Empowerment, as a concept, revolves around enhancing an individual's or community's ability to act independently and control their circumstances. It involves building capacities through knowledge and skills development, aiming to achieve self-sufficiency (Hess, 1984). Sumodiningrat (1999) notes that empowerment is a temporary process that continues until the community attains independence, at which point external support is withdrawn, though monitoring continues to ensure stability. The process of empowerment typically progresses through stages, beginning with raising awareness and fostering responsible behavior, followed by developing skills and competencies, and culminating in the intellectual growth that drives individuals toward self-reliance (Eversole, 2011; Dhakal, 2013).

Empowerment also requires a combination of social, political, and psychological strengths. Social strength includes access to information, knowledge, and resources, while political strength involves participation in decision-making processes that shape the community's future. Psychological strength focuses on fostering confidence and assertiveness in individuals (Priyono & Pranarka, 1996). Empowerment, especially regarding resource access, is linked to gaining authority over resources for sustenance, which is essential for initiating social change. This process involves the collective effort of multiple stakeholders, including government and non-governmental organizations, to support and sustain the community's role within its social and economic environment (Bahri, 2013).

#### *Local Wisdom based Community Empowerment*

The fundamental objective of empowerment is to cultivate a society that is imbued with a sense of empowerment. Specifically, Killian and Ireland (2012) delineates various dimensions of community empowerment objectives, encompassing: (a) Enhancement of quality of life. This entails striving for an improved standard of living; (b) Enhanced accessibility. Aimed at improving the accessibility of essential services and resources; (c) Educational advancement. Focused on elevating the quality of education; (d) Institutional enhancement. Geared towards strengthening the effectiveness and efficiency of institutions; (e) Business improvement. Targeting the betterment of economic enterprises; (f) Increased income. Seeking to augment the financial well-being of community members; (g) Environmental amelioration. Concentrated on fostering environmental stewardship; and (h) Community advancement. Aiming to elevate the overall well-being and cohesion of the community. Community empowerment strives to forge a society that is environmentally conscious, versed in legal matters, cognizant of rights and responsibilities, and adept at crafting prosperous and self-sufficient livelihoods for the community at hand (Cahyaningrum, 2017; Sulaiman et al., 2019).

Consequently, community empowerment cannot be disassociated from endeavors to mitigate the pervasive issue of poverty within our society. In the pursuit of community empowerment, five pivotal factors warrant consideration: (a) Respect and upholding of human rights. Fostering an environment that values and safeguards human rights; (b) Global commitment to indigenous social development. Aligned with conventions established by the International Labour Organization (ILO) for the social development of indigenous communities; (c) environmental preservation. Prioritizing the protection of natural resources and averting the undue exploitation that indigenous communities often face; (d) Elimination of marginalization. Mitigating the marginalization of indigenous populations in the broader context of national development; and (e) Integration of local wisdom values. The infusion of local community wisdom into policy and program design for addressing social challenges (Rahmawati & Astuti, 2019; Sulaiman et al., 2022; Ghoni, 2016; Putera et al., 2020).

The strategy of community empowerment grounded in local wisdom leverages indigenous values to address societal issues, notably the pressing concern of poverty. These values encompass the cultural and societal ethos of the community in question, incorporating principles such as cooperation, kinship, consensus-building through dialogue, and tolerance. Community empowerment, rooted in the values of local wisdom, engenders an empowered community characterized by the following attributes: (a) Self-awareness and future planning. The ability to comprehend one's identity and potential and to strategize for future contingencies; (b) Self-determination: The capacity to autonomously chart one's course; (c) Negotiation skills. The proficiency to engage in effective negotiation; (d) Empowered bargaining. Equipped with the requisite bargaining power to engage in mutually beneficial collaborations; and (e) Accountability. Assuming responsibility for one's actions and their consequences (Grimm, 2011; Hikmawati, 2022; Kamin et al., 2022).

### *Local Wisdom Concept*

Local wisdom refers to the deeply rooted cultural values, beliefs, and practices that have become integral to a community's identity. These values often embody sacred principles and are expressed through social and ecological practices that help maintain harmony within the community and with the environment (Suparjan & Suyatno, 2003; Susanto et al., 2022). Social wisdom is reflected in efforts to uphold peace and social structures, while ecological wisdom emphasizes the preservation of the natural balance. Local wisdom plays a crucial role in sustaining cultural heritage and contributes to economic development by strengthening social institutions and communal identity.

Local wisdom is unique to each community, shaped by shared cultural, societal, and environmental experiences. It encompasses traditional knowledge and practices that are passed down through generations, forming a collective understanding that guides the community's way of life (Nugroho & Triyono, 2022). This knowledge includes practical survival skills, decision-making processes, and group solidarity, which are essential for the community's resilience and cohesion (Fisher et al., 2018). Research has shown that communities in forested areas often face various challenges, but by leveraging their local wisdom through empowerment programs, they can enhance their socio-economic conditions and strengthen their communal bonds (Priswari, 2023; Purwanto et al., 2015; Subarudi, 2023; Mardikanto, 2012; Nugroho, 2021). Collaborative studies, such as those conducted with the University of Malaysia, have provided valuable insights into how local wisdom can be effectively integrated into community empowerment initiatives.

### **Methodology**

This study employed a qualitative research design, focusing on the experiences and perceptions of communities in Indonesia and Malaysia involved in social forestry programs. The research was conducted in two primary locations: the forest regions of West Java, Indonesia, and similar communal forest areas in Malaysia. These settings were selected due to their active community participation in forestry management and the presence of diverse local wisdom practices

Participants were selected using purposive sampling, targeting key informants who were directly involved in community-based forestry initiatives. These included local leaders, community members, and representatives from non-governmental organizations (NGOs) involved in forestry and community empowerment projects. Data were collected through in-depth interviews and focus group discussions, allowing participants to share their experiences and insights regarding local wisdom and its role in sustainable forest management

The data analysis process involved coding and categorizing the interview transcripts to identify recurring themes and patterns related to the integration of local wisdom in community empowerment. The research team used qualitative data analysis software to assist in managing and organizing the data efficiently. Instruments used in the study included semi-structured interview guides designed to elicit detailed responses about participants' knowledge, practices, and beliefs regarding social forestry.

No statistical analysis was performed, as the study focused on qualitative data to explore the subjective experiences and cultural practices of the participants. The findings were interpreted in light of existing literature on community empowerment and local wisdom, providing a rich understanding of the factors that contribute to successful community-led forestry management.

## **Results**

This study examined the empowerment of forest communities in Indonesia and Malaysia by engaging with traditional leaders, NGO representatives, and community members involved in various local organizations. The findings highlight that community forest management (CBFM) in both countries encourages active community involvement in sustainable resource use and decision-making processes. This approach also emphasizes the importance of income diversification through activities like sustainable agriculture, ecotourism, and the marketing of non-wood forest products, which help reduce reliance on forest resources. Training and competency development are integral to these initiatives, aimed at enhancing the skills and knowledge of community members for effective participation in forest management.

The empowerment strategies are built on key principles such as participation, inclusion, and sustainable forest management, ensuring that all community members, especially the vulnerable, have a voice in decision-making. The process typically involves stages like identifying community needs, building capacities, establishing or strengthening community institutions, and securing legal rights to resources. The success of these initiatives is influenced by governance strategies, legal frameworks, and collaboration among various stakeholders, including government bodies, NGOs, and the private sector. A deep understanding of the socio-cultural background of communities is also crucial for designing empowerment strategies that align with local values and principles.

### *Local Wisdom Values Utilized in Forestry Community Empowerment*

Local wisdom plays a key role in efforts to empower forest communities in Indonesia and Malaysia. It is the basis of maintainable forest organization and survival performs. Data for this study were collected through interviews with forest elders, which perceived the discovery of the following findings of local wisdom in empowerment initiatives for Indonesian forest communities. Indonesian forest communities have a wide range of common ecological knowledge (TEK) and have knowledge about woodland bionetworks, resident class, and environmental interconnections. Indonesian native collections often possess precise information around woodland floras, useful aspects and sustainable management practices. In addition, these communities show a deep knowledge of medicinal plants, as well as their applications in health. Local herbalists and old-style remedies production a critical character in preservative such information and strengthening community health.

Both countries have agricultural and forestry practices and the cultivation of trees is compatible with agricultural cultivation. In addition, Indonesian indigenous communities often have sacred forests or forest areas that need to be protected and managed according to cultural rituals and beliefs. These spaces serve as spaces of warm biodiversity and are decisive for the conservation of cultural heritage. Indonesia has traditional community-based forest management systems, such as "hutan desa" (village forests) and "hutan adat" (forests). These systems require collective decision-making, resource allocation, and the application of generational norms. Local Indonesian communities can also showcase the unique artistic and craft traditions that sustainably use forest resources. These practices are often culturally and economically important and can be integrated into reinforcement programmes to improve survival resources.

Controlled burning is carried out by several Indonesian indigenous groups as a forest management technique. This method is used to maintain forest health, promote specific vegetation, and reduce the risk of more devastating wildfires. Local wisdom also underpins traditional agricultural practices, including crop selection, planting calendars, and seed preservation techniques adapted to local climatic conditions over time. Depending on the region, some communities that depend on Indonesian forests



may adopt specific survival strategies, such as fishing, hunting, gathering forest products, or traditional handicrafts. At the same time, research findings on the local wisdom of Malaysian forest community empowerment programmes show key themes. Malaysia's forest communities show a deep understanding of the choral interaction between local ecosystems and different species. This knowledge, often referred to as Traditional Ecological Knowledge (TEK), collects information about the natural behavior and processes of plants and animals. Basic knowledge is the basis for continuous harvesting practices and for ecosystem management perspectives that improve over time.

Forest-dependent communities in Malaysia have extensive knowledge among the medicinal plants in the area. It understands the properties and uses of various plant species to treat different diseases. Empowerment programs can leverage this local wisdom to promote sustainable harvesting practices and conserve medicinal verbenas resources. Malaysian indigenous peoples and local communities have developed unique resource management practices that ensure the long-term sustainability of forests. These practices may involve alternative harvesting, protecting sacred forests, or establishing specific harvesting regulations at designated periods for their regeneration. Many forest-dominated communities adhere to ethical hunting and fishing guidelines to avoid excessive expectations and maintain ecological balance. These practices contribute to the conservation of wildlife populations and water resources, while bolstering community food security.

Empowerment programs are aware of these cultural dimensions and respect them in order to develop more effective and culturally sensitive approaches. Some indigenous communities have developed techniques to control forest use and the growth of specific plants. These practices contribute to preventing unconventional forest fires and maintaining the health of the ecosystem. In addition, local communities can rely on the traditional methods of bias of climate models based on natural indicators. Understanding these indicators can help plan agricultural activities and mitigate the impacts of extreme weather events.

### **Discussions**

Based on the findings, Includes empowerment programs for forest communities in Malaysia and Indonesia several factors that have undergone thorough examination, including empowerment modalities, empowerment principles, the stages of empowerment, and the factors that influence empowerment. Moreover, this analysis delves into two pertinent aspects: the social and economic characteristics within the Indonesian and Malaysian contexts. The reinforcement modalities used in forest communities show a remarkable degree of similarity between Indonesia and Malaysia. Basically, these modalities comprise three main forms. First, community-based forest management encompasses aspects of social development and economic empowerment within the community. It provides local communities with the authority to actively participate in the management and conservation of forest resources, enabling them to participate in sustainable practices and decision-making processes. Second, diversify livelihoods to help forest-dependent communities disperse their incomes, and second, mitigate over-reliance on forest resources. Thus, among these strategies are support for sustainable agriculture, ecotourism initiatives or the marketing of non-plant forest products. Third, capacity-building and development. Empowerment initiatives that often require efforts for the training and development of the skills and knowledge of community members. This serves to participate effectively in sustainable forest management practices and associated economic activities, including ecological powerhouses and households.

The principles for sustaining forest community strengthening programmes in Indonesia and Malaysia focus on four main principles. First, participation and inclusiveness are emphasized with initiatives focusing on the active participation of local communities in decision-making processes and operational aspects of forest management. The concept of inclusion ensures that the most vulnerable and marginalized groups have a voice in these processes. Second, continuous and sustainable forest management is a fundamental principle, based on long-term approaches, which emphasizes forest environment conservation and productivity for future generations. Thirdly, the recognition of

customary rights is decisive. One of the critical aspects of these programmes is the recognition and respect of the customary rights of indigenous and local groups to use and manage forest resources. This element underlines the principles of equality and independence. The empowerment stages of forest communities in Indonesia and Malaysia can be divided into five phases. The first phase is to identify and engage forest-subject communities to fully understand their needs, concerns and intentions. The second phase consists of the development, training and support of communities with key skills and capacities for sustainable forest management and alternative lifestyles. The third phase involves the creation or strengthening of institutions, community institutions and governance structures to facilitate decision-making and effective management of forest resources. The fourth phase involves access to resources and rights, the guarantee of legal rights and access to forest resources for the benefit of communities. Finally, the fifth phase consists of the development of sustainable livelihoods that diversify their livelihoods through cooperative partnerships, reducing dependence on forest resources.

The factors influencing forest community strengthening programmes, as seen in Indonesia and Malaysia, are a milestone in this area. Government policy and protection are critical and legal areas, and supportive policies and rights and active community participation are critical to the success of empowerment initiatives. There is also a need to engage with interested parties, as effective partnerships between communities, government organizations, non-governmental organizations and the private sector generate broader and more emotional empowerment initiatives. Awareness, motivation and education play an important role, as raising awareness among communities about the benefits of forest management and empowerment fosters cooperation and support. Understanding and respecting the sociocultural context of communities is essential to design empowerment approaches aligned with their values and beliefs. Finally, the economic opportunities of markets are critical, as market access and price equity of unused forest products and sustainable forest enterprises can lead the community to participate in alternative livelihood resources.

The social and economic characteristics of the forest community strengthening programme in Indonesia and Malaysia show differentiations and important points. As far as social characteristics are concerned, the Community's participation varies significantly between the two countries. In Indonesia, especially in the province of West Java, forest communities are actively involved in decision-making processes for empowerment projects. These communities play a key role in identifying their needs, projecting solutions and establishing sustainable forest use programmes. In Malaysia, however, community participation is more passive due to the country's ethnic diversity. Malaysia is a cosmopolitan nation, with a diverse population, including Malaysians, Chinese, Indians and indigenous people. In forest communities, ethnic groups may have different responsibilities and practices.

Forest communities in Indonesia and Malaysia possess rich traditional knowledge and practices related to forest management and conservation. This traditional knowledge is immeasurable and is considered a critical resource in modern conservation efforts. The integration of this knowledge into contemporary forestry practices highlights the importance of cultural heritage in sustainable management. The economic characteristics of empowerment programs also show similarities and differences. Media diversification is a key aspect of both countries' empowerment strategies. The aim of these programmes is to help communities reduce dependence on forest resources by diversifying their sources of income. This can include supporting sustainable agriculture, ecotourism, and the marketing of non-carpenter forest products. By increasing the economic base, communities can gain greater economic stability and resilience. The creation or strengthening of Community institutions is another important economic feature. These entities facilitate decision-making and management of forest resources, enabling communities to actively participate in sustainable forest management and alternative livelihoods. In empowering local entities, these programmes foster a sense of ownership and responsibility among community members, which is critical for the long-term sustainability of forest resources.

The participation of forest communities in the decision-making processes of reinforcement projects in the Western Province of Java is particularly active. These communities play a critical role in actively participating in differentiating their unique needs, developing viable solutions, and implementing sustainable forest use initiatives. In Malaysia, however, it can be a striking contrast, especially with the nation's deep ethnic diversity. Malaysia, as a cosmopolitan nation, encompasses a diverse population that encompasses Malaga, Chinese, India, and Indigenous groups. This diversity, in many cases, generates responsibilities and practices within forest communities, which contributes to a passive view of community participation. Traditional knowledge and customs are another vital dimension of this process. In the western province of Java, many forest communities possess extensive traditional knowledge and practices related to forest management and conservation. These practices have great value over time and are considered as fundamental resources in current conservation efforts. Malaysian indigenous communities also show a deep understanding of local ecosystems and traditional forest management practices. Their knowledge plays a fundamental role in the conservation of biodiversity and in ensuring long-term health.

These empowerment programs can be considered catalysts to promote social cohesion. They are strategically designed to strengthen social ties between members of forest communities, fostering cooperation and solidarity. This dynamic contributes to resilience and promotes a shared sense of responsibility in the sustainable management of forests. Traditional ways of life, such as farming, hunting, fishing and gathering timber products, are prevalent among poor forest-dependent peoples. These lives are very important to their economic livelihood. However, these Malaysian communities often face land tenure, access to resources and conflicts with larger companies, such as palm oil cutting or plantations, which can affect their economic well-being and social cohesion. Gender inclusivity and the establishment of community-based institutions also feature prominently in these empowerment initiatives. Efforts are underway in Indonesian forestry communities to ensure the inclusion and active participation of women in empowerment programs. This recognition of gender equality contributes to more balanced and holistic outcomes in the realm of forest conservation and management. The creation of community-based institutions is a pivotal requirement in these programs. Local communities can assume ownership of forest resources and engage in their sustainable management by establishing and supporting community-based institutions, such as forest user groups and cooperatives.

Equally significant are the economic dimensions inherent in these empowerment programs for forestry communities. These dimensions encompass livelihood diversification, sustainable forest management, market access, capacity building and training, and the availability of microfinance and credit facilities. Livelihood diversification is a recurrent theme in empowerment projects within both Indonesia's West Java Province and Malaysia. These endeavors aim to diversify the livelihood options available to forestry communities, introducing income-generating activities such as the cultivation of medicinal plants, the creation of handicrafts, or the promotion of ecotourism ventures. Sustainable forest management is a core component of these programs, focusing on the development of forestry practices that enhance forest productivity without causing severe environmental degradation. The adoption of sustainable management techniques contributes to the long-term economic viability of forest resources. Market access is another pivotal aspect of these empowerment programs, as they seek to improve market access for forestry communities' products, encompassing both traditional and newly introduced items. This involves the establishment of value chains, the facilitation of community-to-buyer connections, the assurance of fair pricing, and the creation of market linkages. The economic empowerment projects frequently incorporate training sessions and capacity-building initiatives, aiming to enhance the skill sets of forestry communities in areas such as entrepreneurship, financial management, and sustainable harvesting techniques. Access to microfinance and credit facilities is of paramount importance, as it empowers forestry communities to invest in their livelihoods, infrastructure, and other revenue-generating activities integral to sustainable forest management.



In addition to the economic and social characteristics previously discussed, this study undertakes an exploration of the inherent local wisdom values entwined with community empowerment through the utilization of social forests in both Indonesia and Malaysia. The local wisdom embedded in forestry communities in Indonesia shares certain similarities with its Malaysian counterpart, primarily due to their geographical proximity and shared cultural backgrounds. Nevertheless, it is imperative to acknowledge that there are also distinctive differences rooted in the diverse ethnic groups, ecosystems, and historical contexts intrinsic to each country. Furthermore, it is noteworthy that there exists a profound interconnection between local wisdom values and the economic factors of the community. For instance, the research conducted by Kurniati and Shifa (2023) demonstrates that economic degradation can have implications for the community's resilience in preserving the wealth of their cultural values, as evidenced in the case of the Jawi Village in Semarang, Indonesia. In a different context, the preservation of cultural values and local wisdom held by these communities is also a significant issue that warrants serious attention. This is because traditional elements are a sensitive matter that can give rise to intricate social debates and conflicts, as elucidated in the study by Muda et al. (2023).

Indonesia and Malaysia share some common elements of local wisdom due to their cultural heritage, yet each country also possesses distinct cultural attributes that must be respected. In both countries, integrating local wisdom into community empowerment projects is crucial for sustainable forest management and conservation. In Malaysia, this often involves engaging communities in decision-making, policy development, and forest management planning, promoting biodiversity and preserving cultural heritage. Similarly, in Indonesia, empowerment efforts include community-based forest management and sustainable resource use, which rely on traditional knowledge and practices to maintain the balance of forest ecosystems.

The local wisdom used in these empowerment projects is diverse and includes traditional ecological knowledge, medicinal plant use, and agroforestry practices that benefit both the environment and community livelihoods. Indigenous communities in both countries also maintain sacred forests and use traditional fire management techniques to preserve biodiversity. Furthermore, local agricultural practices, such as seed selection and planting schedules, are adapted to the specific climate conditions, ensuring sustainability. These practices not only protect natural resources but also support the socio-economic well-being of the communities. The deep-rooted traditional knowledge passed down through generations helps maintain the delicate balance of sustainable forest management and fosters a sense of social cohesion and shared responsibility among community members.

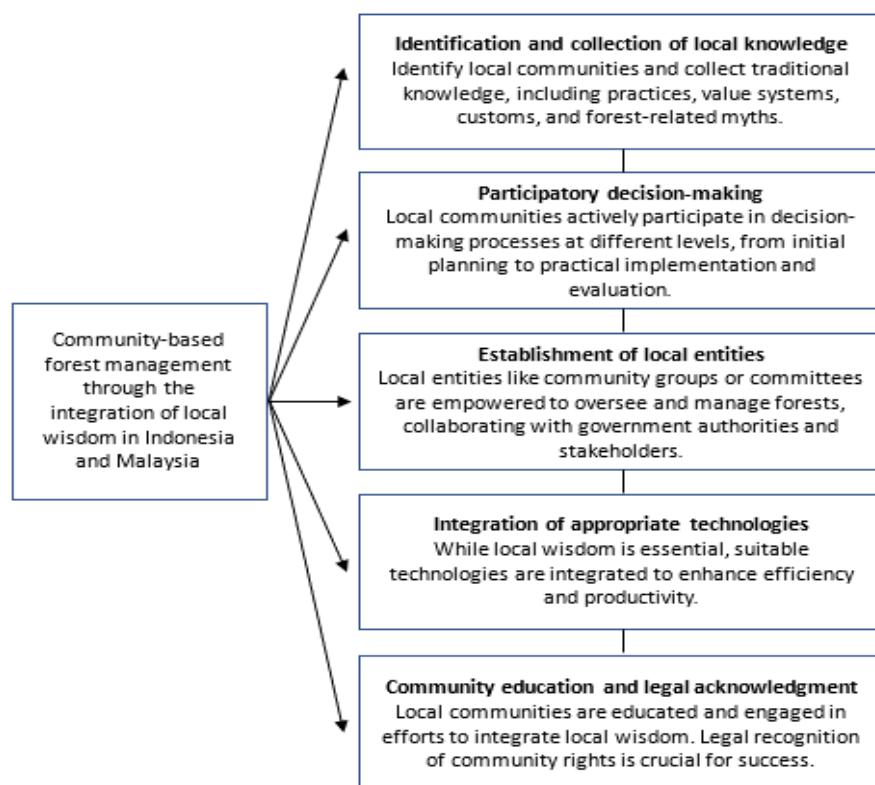
Similarly, in Malaysia, local wisdom plays a key role in projects to empower forest communities, that is, at the basis of sustainable forest management and survival practices. These projects require the active participation of local communities in decision-making, policy-making and forest planning processes. The recognition and integration of local wisdom into contemporary forestry techniques is the protection of biodiversity, the sustainability of resources and the protection of cultural heritage within forest communities. Fundamentally, local wisdom serves as a bridge between tradition and modernity in these empowerment initiatives, fostering harmony between natural ecosystems and human societies. Implementing Community forest management by integrating local wisdom in Indonesia and Malaysia requires structured steps. First, identify and collect local knowledge. This initial phase involves identifying and compiling common practices of local communities in the management of forest resources, underlying value systems, forest habits and myths. This knowledge is the fundamental basis for community use of forests.

Second, participatory decision-making is critical. Local communities are actively involved in forest management decision-making processes. This participation covers different levels, from initial planning to the practical implementation of the initiatives, continuous monitoring and subsequent evaluation. The main objective is to ensure that policies and actions are based on the objectives and knowledge of the local community, aligning forest management with their needs and knowledge. Thirdly, Local Entities must be created. The forest inspection and management authority shall be vested

in local entities, such as community groups or committees. These entities are working closely with government authorities and other stakeholders in the monitoring and implementation of forest management activities. This cooperative approach is critical to ensuring efficient and sustainable management practices.

Fourth, the integration of appropriate technologies improves forest management. While local wisdom is at the core of forest management, the integration of appropriate technologies based on the context of local communities and specific needs improves efficiency and productivity. Local communities are responsible for monitoring the state of the forest and for identifying and contributing to any illegal or environmentally harmful activities. When necessary, they collaborate with the authorities for the application of the corresponding environmental regulations. Fifth, community education and legal acknowledgment are essential for the success of these initiatives. Engaging with local communities through education and socialization efforts nurtures the integration of local wisdom and traditional practices (Indriani et al., 2019), particularly those rooted in local philosophies. Training and education programs enhance the sympathetic and volume of resident groups in maintainable woodland organization. The legal acknowledgment of public human rights pertaining to woods and usual capitals within their terrains is also crucial. This legal gratitude can take the form of usual human rights, organization human rights, or terrestrial possession human rights, reinforcing the resident communities' sense of ownership and responsibility.

Figure 1, through the social use of the forests of Indonesia and Malaysia, describes the values of local wisdom in the social empowerment of the community.



**Figure 1.** Local Wisdom Values in Community Empowerment through Social Forest Utilization in Indonesia and Malaysia

This model encapsulates the key elements of local wisdom integration in community-based woodland organisation, emphasizing its role in sustainability and the preservation of woodland resources, and the empowerment of local groups. It illustrates the interconnectedness of these elements,

highlighting the need for a comprehensive and holistic approach in the implementation of empowerment initiatives. This research reveals that the empowerment of forestry communities in Indonesia and Malaysia is a complex tapestry woven from socio-economic threads and enriched by the cultural gems of local wisdom. It highlights the interplay between social and economic dimensions in these programs, emphasizing the need for comprehensive, culturally sensitive approaches. These initiatives aim not only to safeguard woods and normal capitals but to empower resident groups, making them additional maintainable and modest. Moreover, they serve as a platform for conflict resolution, ensuring harmony among communities and other stakeholders with interests in forest resources. As the canopies of Indonesia and the landscapes of Malaysia continue to thrive, so too do the communities that call them home, empowered and enriched by their forests, and ready to embrace a sustainable future.

### **Limitations and Future Resource**

One limitation of this study is the reliance on qualitative data, which, while rich in detail, may not capture the full scope of the social and economic impacts of local wisdom on community empowerment across different regions. Additionally, the study was conducted in specific areas within Indonesia and Malaysia, limiting the generalizability of the findings to other cultural or geographical settings. Future research could expand on this work by incorporating quantitative methods to measure the outcomes of empowerment initiatives more broadly and by exploring similar practices in other communities to validate and compare results across different contexts. Further studies could also investigate the long-term sustainability of integrating local wisdom into community empowerment, examining its impact over time and across various socio-economic conditions.

### **Conclusions**

This research delves into the socio-economic characteristics that form the foundation of forestry community empowerment in Indonesia and Malaysia. It highlights the crucial role of local wisdom in guiding sustainable forest management and enhancing community well-being. Local communities are not merely passive participants but play an active role in decision-making and implementing sustainable practices, becoming the architects of their future by addressing their own needs and solutions for ecological balance.

The findings reveal similarities in the socio-economic aspects of empowerment programs in both countries, with differences in practice reflecting their unique cultural contexts. Social characteristics such as community involvement, traditional knowledge, social unity, and gender inclusivity are complemented by economic factors like sustainable forest management, market access, and microfinance. The study emphasizes the importance of integrating local wisdom into empowerment initiatives, which is key to fostering biodiversity conservation, sustaining resources, and preserving cultural heritage. The research underscores the importance of respecting the unique cultural attributes of each country while working towards a shared goal of sustainable forestry and community empowerment.

### **Conflict of Interest**

The author declares that there is no conflict of interest.

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