


# Indigenous Knowledge helps to develop Sustainable Lifestyle Practices

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## Abstract

*Indigenous knowledge and sustainability are closely related. Around the world, Indigenous people live in almost every country and region. They practice their belief and traditional knowledge. This knowledge fully promoted sustainability and sustainable practices. Indigenous knowledge represents a dynamic and invaluable resource rooted in cultural traditions, local practices, and situational wisdom. Indigenous Knowledge (IK) plays a vital role in pursuing sustainable practices. This paper explores the significance, utility, and integration of Indigenous knowledge in the context of sustainable practices in the case of healthcare, education, environmental conservation, and cultural preservation. The study underscores the potential of traditional knowledge to complement modern scientific approaches in addressing sustainable practices. It highlights the transformative value of indigenous knowledge systems, particularly their role in sustainable practices and achieving the Sustainable Development Goals (SDGs). The study evaluates the distinctions and overlaps between traditional and scientific knowledge systems through a comparative lens, advocating for their convergence to foster holistic problem-solving and innovation. The findings suggest that integrating IK not only enriches the individual but also enriches our modern society. Indigenous Knowledge contributes to broader sustainability goals by fostering a deeper connection between people and their environment. Ultimately, this study calls for policymakers and educators to recognize the value of Indigenous knowledge systems as essential components of sustainable practice, advocating for inclusive frameworks that honor diverse epistemologies and promote ecological resilience.*

**Keywords:** Indigenous Knowledge, Sustainable Practices, Cultural Traditions, Sustainable Development Goals

## Introduction

We currently live in an era of knowledge. Knowledge power is now more important than ever for developing human resources and achieving the Sustainable Development Goals (SDGs). These objectives can be accomplished by applying traditional wisdom, or knowledge rooted in the community, which is vital to humanity. The current knowledge system has to be rebuilt to provide new methods for knowledge generation and documentation that will advance this knowledge and enhance the development process by the SDGs.

According to earlier research, “indigenous knowledge” strongly connects to the land, people, and environment. Thus, Indigenous knowledge can assist us in addressing the different risks related to the economy, environment, and social issues. Indigenous knowledge is entirely distinct from the Western knowledge system when seen holistically.

Indigenous knowledge (IK) is critical in promoting sustainable practices and addressing contemporary ecological challenges. This introduction explores the significance of integrating IK into modern environmental management and policy frameworks. Historically, IK has been marginalized, and often perceived as primitive; however, it embodies a dynamic system of knowledge

developed by local communities through generations of interaction with their environment. Recognizing the value of IK can enhance resilience, improve ecosystem management, and safeguard biodiversity. The holistic nature of IK encompasses various domains such as agriculture, health, and resource management, deeply rooted in indigenous peoples' cultural and spiritual practices. It is characterized by its adaptive capacity, allowing communities to respond effectively to changing environmental conditions. Furthermore, the erosion of IK due to globalization and modern development threatens cultural integrity and ecological sustainability. Incorporating IK into sustainable development strategies preserves traditional practices and fosters innovation by bridging conventional and contemporary approaches. The collaborative involvement of indigenous communities, policymakers, and researchers is essential for leveraging IK in achieving sustainability goals. This integration serves as a pathway toward recognizing diverse epistemologies and promoting inclusive decision-making processes that honor Indigenous perspectives ([Dano, n.d.](#); [USDA, 2014](#); [Nakashima & Roué, 2002](#)).

### Objectives of the Study

- To explore components of Indigenous knowledge
- To discuss the relevance of Indigenous knowledge for Sustainable practices

### Methodology

The study is documentary in nature. The researcher has drawn a conclusion based on literature review regarding the issue. The study has been based on secondary sources.

### Concept of Indigenous Knowledge

Indigenous wisdom can continue to evolve over thousands of years. "Indigenous Knowledge is a body of observations, oral and written knowledge, innovations, practices, and beliefs developed by Tribes and Indigenous Peoples through direct contact and experience with the environment." It encompasses extensive observations, lessons, and skills passed down from generation to generation as well as evidence derived from long-term experiences and direct contact with the environment. As defined

by World Bank, 'Indigenous Knowledge is situational knowledge that is unique to every culture of society'. In the Indian context, indigenous knowledge is reflected within the community's practices. This knowledge varies from community to community and from situation to situation. That is why it is known as 'situational knowledge'. Indigenous community practices are associated with all dimensions of life. The information that an indigenous (local) population has accumulated over many generations of residing in a certain ecological area is commonly referred to as indigenous knowledge. All types of knowledge technologies, know-how skills, practices, and attitudes that help the community establish secure lives in their surroundings are included in the concept. Traditional knowledge (TK), Indigenous Technical Knowledge (ITK), Local Knowledge (LK), and Indigenous Knowledge System (IKS) are some of the words that are used interchangeably to describe the idea of IK. IK is a set of experiences created by people living in those communities; it is based on and deeply embedded in local experience and historical reality, making it unique to that particular culture; it also plays an important role in defining the identity of the community; it has developed over the centuries of experimentation on how to adapt to local conditions; as a result, it represents all the people's skills and innovations and embodies the community's collective wisdom and resourcefulness ([Malhotra et al., 2001](#)).

The word 'indigenous' is very closely related to the tribes that are the traditional group of primitive groups, which are struggling to maintain their existence on the face of the earth today. Its special reason remains that science and modernity are elusive. But to satisfy their perception and ability to fight with nature, indigenous peoples are still present today. Most of the places in the world that are far from human settlements are usually inhabited by indigenous peoples in deep forests, secluded forests by the sea, remote mountainous areas, or extreme deserts ([Gope, 2019](#)).

### Various Dimensions of Indigenous Knowledge

**Indigenous health care:** indigenous health care is a traditional health care practice, knowledge, and healing process developed by indigenous people.

They focus on mental, physical, emotional, and spiritual health.

**Indigenous resource management:** indigenous resource management refers to the sustainable use of water, land, and energy.

**Indigenous food preparation:** techniques like roasting, smoking, fermenting, boiling, and sun-drying are widely used. Methods like pickling, drying, and smoking help store food for long periods without refrigeration.

**Indigenous agriculture:** indigenous agriculture refers to the traditional farming practices, based on centuries of experience, local ecological knowledge, and a deep connection to nature. These methods prioritize sustainability, biodiversity, and resilience against climate changes.

**Indigenous Education:** knowledge is passed down through various folktales, oral stories, etc., and practical skills like fishing, farming, hunting, and craft are learned through direct experience.

**Indigenous nature study:** It is based on deep ecological wisdom, passed down through generations, and focuses on sustainable living, biodiversity conservation, and spiritual connections with nature.

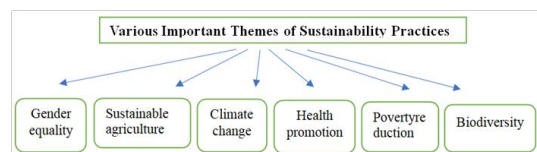
**Indigenous child-rearing process:** Indigenous child-rearing refers to the traditional practices, values, and community-based approaches used by Indigenous communities to raise children. These methods emphasize holistic development, cultural identity, self-reliance, and a deep connection to nature and community.

**Indigenous leisure timing:** 1. Indigenous sport / pictorial themes, 2. Rituals and 3. Indigenous game they perform together.

### Concept of Sustainable Practices

In the 21st century, grave challenges include an alarming population, environmental degradation, and scarcity of natural resources; hence, the only means of survival is a 'Sustainable lifestyle'. The United Nations 'World Commission on Environment and Development' (WCED) in its 1987 report 'Our Common Future' defined sustainable development as 'Development that meets the needs of the present without compromising the ability of future generations to meet their own needs'.

Since time immorally, the term 'Sustainability' has been extensively applied to almost every aspect of life on Earth, from local to universal. The most important issue of environment conservation and securing the protection of natural resources has been considered under the term Sustainability or Sustainable Development (SD). Sustainable practices encompass a variety of approaches aimed at minimizing environmental impact while promoting economic viability and social equity. These practices are crucial for ensuring that the needs of the present are met without compromising the ability of future generations to meet their own needs. Sustainable lifestyles refer to individuals' routines and choices to associate with and distinguish themselves from others. Fulfilling basic needs, improving general well-being, using less natural resources, and minimizing waste and pollutants throughout the life cycle are the goals of these lifestyles ([Bandara & Alahakoon, 2023](#)).



### Discussion

#### Components of Indigenous Knowledge

Understanding the meaning and structure of sustainable development requires exploring its semantic roots. Sustainable development means sustaining something or continuing something from one generation to another. In this perspective, the hills and plains tribes possess indigenous practices and knowledge. Their knowledge is situational and transformed by many informal means, such as doing content, judging things by one's introspection, trial and error, and so on ([Gope, 2019](#)).

Indigenous knowledge, by nature, is community-centric. Each community in the world transmits deep indigenous knowledge and practices, but this indigenous knowledge is, to some extent, different from community to community. This knowledge also gets transmitted by various means. Sometimes this knowledge is passed through observation, language, culture, tradition, ways of living, doing of content, trial and error, and various other means.

This indigenous knowledge is deeply associated with the lands and situations, i.e., this knowledge varies from one situation to another and from one culture to another ([Gupta, 2015](#)).

Indigenous knowledge represents a rich and dynamic system rooted in generations of lived experiences. It encompasses various components vital to community well-being and sustainability:

**Cultural Practices:** Include rituals, storytelling, art, and traditional education that preserve history and values.

**Ecological Wisdom:** Involves a deep understanding of ecosystems, biodiversity, and sustainable land-use practices.

**Social Structures:** Govern communal living, decision-making, and resource-sharing through kinship systems and collective norms.

**Health Systems:** Utilize traditional medicine, herbal remedies, and holistic approaches to health and wellness.

**Spiritual Beliefs:** Connect communities to nature, ancestors, and cosmic cycles through rituals and moral frameworks.

**Sustainable Resource Management:** Guide practices such as crop rotation, wildlife conservation, and water stewardship.

### Relevance of Indigenous Knowledge for Sustainable Practices

Previous research reveals that indigenous or traditional knowledge has much utilization for attaining sustainable development and practices ([Gope, 2019](#)). In this study, the researcher has explored the indigenous knowledge, practiced by the Chakma community with the help of participatory cum focused group discussion methods. The researcher shows that the indigenous practices of the Chakma community have many implications and utilization for sustainable development ([Gope, 2019](#)). Indigenous knowledge has many practical advantages in many dimensions - health care, childrearing, education, natural resource management, animal husbandry, agriculture, housing, art and craft, approach to the environment, etc. This indigenous knowledge flows from the distant past and has already been tested over many generations by various experiments and introspection regarding nature ([Gope, 2019](#)).

Indigenous knowledge plays a crucial role in promoting sustainable practices across various dimensions, reflecting a deep understanding of local ecosystems and resource management. Here's an analysis of its relevance based on different aspects:

**Ecological Dimension:** Indigenous knowledge systems are rooted in centuries of experiential learning and intimate relationships with local environments. They offer tested techniques for natural resource management, which emphasize biodiversity conservation and ecological balance. For instance, traditional agricultural practices, such as the milpa system used by the Maya, involve crop rotation within forested areas, promoting biodiversity and soil health while mitigating climate change impacts. Moreover, Indigenous communities often act as custodians of ecosystems, employing methods like cultural burning to manage landscapes sustainably ([Bhagat, n.d.](#); [Mishra, 2021](#); [Paul, 2022](#)).

**Social Dimension:** The transmission of indigenous knowledge through oral traditions and rituals fosters community resilience and social cohesion. This knowledge embodies a holistic world view that integrates social, cultural, and environmental aspects, ensuring that practices are not only sustainable but also culturally relevant. Indigenous peoples often maintain strong community ties and governance structures that support collective resource management, vital for their survival and cultural identity ([Bhagat, n.d.](#); [Mishra, 2021](#); [Paul, 2022](#)).

**Economic Dimension:** Indigenous knowledge contributes to sustainable livelihoods by providing insights into sustainable agriculture, fishing, and forestry practices. These methods often require minimal external inputs and are adapted to local conditions, thus ensuring food security and economic stability. Integrating traditional practices into modern economic frameworks can enhance productivity while preserving ecological integrity, as seen in diverse agroforestry systems that improve soil fertility and reduce erosion.

Indigenous knowledge helps to develop sustainable practices. Indigenous communities often possess valuable traditional knowledge honed over generations that can contribute to sustainability.

## Knowledge Integration

Combining traditional knowledge with modern scientific research can further enhance sustainability practices. An example of knowledge integration in sustainable practices can be seen in sustainable agriculture. This involves combining traditional farming wisdom with modern scientific research to enhance productivity while preserving the environment.

### *Example: Agroforestry*

- Agroforestry integrates indigenous knowledge of tree planting with modern ecological principles to create a sustainable farming system.
- Farmers plant trees alongside crops to: Improve soil fertility (natural nitrogen fixation). Enhance biodiversity (support pollinators, reduce pests).
- Provide additional income sources (timber, fruits, medicinal plants).
- Combat climate change (carbon sequestration). ([Hoffner, 2019](#); [Priya et al., 2025](#); [USDA, 2014](#))

This approach integrates local knowledge, scientific advancements, and policy frameworks to create a resilient and sustainable agricultural system.

## Biodiversity Preservation

Protect traditional lands and indigenous agricultural systems that maintain biodiversity. Promote the cultivation of native plant species that are resilient to climate variations. An example of biodiversity preservation as a sustainable practice is Marine Protected Areas (MPAs).

### *Example: Great Barrier Reef Marine Park, Australia*

The Great Barrier Reef Marine Park is one of the largest MPAs in the world, integrating scientific research, conservation policies, and local community engagement to protect marine biodiversity.

**Habitat Protection:** Restricting harmful activities like overfishing, coral mining, and coastal development.

**Sustainable Tourism:** Implementing eco-friendly guidelines for divers, snorkelers, and boat operators.

**Indigenous Knowledge:** Collaborating with Aboriginal and Torres Strait Islander communities to integrate traditional marine conservation methods.

**Climate Change Mitigation:** Monitoring coral bleaching and implementing restoration programs.

## Cultural Practices and Rituals

Indigenous knowledge promotes respect and incorporates traditional cultural practices related to sustainable living. An example of cultural practices and rituals as a sustainable practice is the Sacred Groves of India.

### *Example: Sacred Groves in India*

Sacred groves are forest patches protected by local communities due to religious and cultural beliefs. These groves serve as biodiversity hotspots and are found across India, particularly in states like Kerala, Karnataka, Maharashtra, and Rajasthan.

**Forest Conservation:** Cutting trees, hunting, or disturbing wildlife is often prohibited due to religious taboos.

**Biodiversity Protection:** Sacred groves preserve rare and endangered plant and animal species.

**Water Conservation:** Many groves have natural springs and ponds that act as water sources for communities.

**Traditional Knowledge:** Indigenous practices maintain the ecological balance without external interventions.

These cultural traditions align with modern sustainability goals by preserving ecosystems, protecting biodiversity, and promoting conservation ethics within communities ([Berkes, 2018](#); [Gadgil & Vartak, 1975](#)).

## Sustainable Agriculture

Promote agroforestry, crop rotation, and polyculture systems practiced by Indigenous groups. Use traditional water conservation techniques, like terracing and rainwater harvesting these types of sustainable practices.

### *Example: System of Rice Intensification (SRI), India*

The System of Rice Intensification (SRI) is a sustainable farming method used in India and other rice-growing countries to increase yields while reducing resource use. It integrates traditional agricultural knowledge with modern ecological principles for better productivity and environmental conservation ([Prasanna & Chaithanya, 2021](#)).



**Water Conservation:** Instead of continuous flooding, fields are kept moist, reducing water usage by 30-50% ([CEEW, n.d.](#)).

**Organic Fertilizers:** Farmers use compost, manure, and biofertilizers instead of chemical inputs, improving soil health.

**Wider Spacing of Plants:** Rice seedlings are transplanted with more space between them, allowing better root growth and reducing competition ([CEEW, n.d.](#)).

**Weed Management:** Instead of herbicides, farmers use mechanical weeders or manual weeding, reducing chemical pollution.

**Higher Yields:** Farmers often achieve 20-50% higher yields compared to conventional methods, making farming more profitable.

This approach enhances food security, reduces environmental damage, and improves farmers' livelihoods, making it a sustainable agricultural practice.

### Climate Adaptation Strategies

Use Indigenous knowledge systems to help climate resilience techniques, such as building on higher ground to avoid flooding. Promote traditional housing designs that mitigate temperature extremes.

#### *Example: Floating Agriculture*

Floating agriculture is a climate adaptation strategy employed in Bangladesh to cope with flooding and rising water levels. This traditional yet sustainable practice enables farmers to continue food production even in waterlogged conditions.

- Construction of floating gardens using water hyacinths and other organic materials as fertile platforms for growing crops like vegetables and rice ([Pau, 2022](#)).
- Organic farming where decomposed plant material naturally fertilizes crops, eliminating the need for chemical fertilizers ([CANSA, n.d.](#)).
- Flood-resistant agriculture with gardens that rise and fall with water levels, protecting crops from seasonal floods.
- Biodiversity conservation by promoting wetland ecosystems providing habitats for fish and aquatic plants ([CANSA, n.d.](#)).

- Supporting resilient livelihoods allows communities to maintain food production despite climate-related challenges ([Paul, 2022](#)).

This nature-based solution demonstrates how local knowledge and ecological wisdom can help communities adapt to climate change while ensuring food security and environmental sustainability.

### Education and Knowledge Sharing

Document Indigenous knowledge to preserve it for future generations. Encourage knowledge exchange between Indigenous elders and younger generations.

#### *Example: Farmer Field Schools (FFS) in Asia and Africa*

Farmer Field Schools (FFS) are community-based education programs that promote sustainable agricultural practices by empowering farmers with practical knowledge and hands-on learning. The approach was first introduced by the Food and Agriculture Organization (FAO) in the late 1980s and has since been implemented worldwide.

**Integrated Pest Management (IPM):** Farmers learn natural pest control methods, reducing chemical pesticide use and protecting biodiversity.

**Climate-Smart Agriculture:** Training includes drought-resistant crops, water conservation techniques, and soil restoration methods to adapt to climate change.

**Organic Farming and Agroecology:** Farmers are educated on using organic fertilizers, composting, and crop rotation for sustainable soil health ([Braun & Duveskog, 2011](#)).

**Knowledge Exchange:** Peer-to-peer learning is encouraged, where farmers share experiences and co-develop solutions for local environmental challenges.

**Empowering Women and Indigenous Communities:** Many FFS programs focus on women and indigenous farmers, ensuring inclusivity and strengthening local food systems.

By fostering education and community-based knowledge sharing, FFS contributes to long-term sustainable agriculture, helping farmers make informed decisions that balance productivity, environmental conservation, and social well-being.

## Strategies for the Development of Sustainable Practices

Until the past few decades, people have assumed that the possible way of achieving the goal of Sustainable Developmental Goals (SDGs) is embedded in modern science and technology. But now it seems that one of the most important ways to achieve sustainable development and sustainable practices is Indigenous Knowledge (IK) as documented in a wide variety of sources that are more effective than modern science. Presently Indigenous Knowledge is highly valued in Sustainable Development.

To develop sustainable practices through Indigenous knowledge, the following strategies can be employed:

**Document and Recognize Indigenous Knowledge:** Collect, document, and validate Indigenous practices related to natural resource management, agriculture, and environmental conservation. Recognize this knowledge as a legitimate and valuable resource.

**Engage Indigenous Communities:** Involve Indigenous people in decision-making processes and planning for sustainability projects. Respect their autonomy and ensure that they benefit equitably from the outcomes.

**Promote Biocultural Diversity:** Protect the ecosystems and cultural heritage that underpin indigenous knowledge. Recognize that traditional ecological knowledge often aligns with sustainable land use and biodiversity conservation.

**Bridge Indigenous and Scientific Knowledge:** Create platforms for collaboration between indigenous practitioners and scientists to integrate traditional knowledge with modern approaches to sustainability.

**Policy and Legal Frameworks:** Advocate for policies that protect Indigenous intellectual property rights and ensure fair use of their knowledge without exploitation.

**Education and Awareness:** Develop educational programs that highlight the importance of indigenous knowledge in sustainable development to foster respect and understanding among broader communities ([Sahoo, 2024](#); [Senanayake, 2006](#)).

## Conclusion

In summary, indigenous knowledge is integral to sustainable practices across ecological, social, economic, and policy dimensions. Its application helps preserve biodiversity and supports indigenous communities' cultural heritage while contributing to global sustainability efforts. Acknowledging and incorporating this knowledge into mainstream practices is crucial for fostering an inclusive approach to environmental stewardship. Through this study, the researcher has explored indigenous knowledge and its implications for sustainable development and practices. Indigenous knowledge has many practical advantages in many dimensions - health care, childrearing, education, natural resource management, animal husbandry, agriculture, housing, art and craft, approach to the environment, etc ([Dei, 1993](#)).

Various types of Indigenous practices such as Indigenous health care, agriculture, Indigenous culture, festivals, rituals, folklore traditional laws, and so on have special value in this fast-changing era of consumption and commercialization and Indigenous knowledge offers durable pathways for controlling environmental hazards. Now it is widely recognized that indigenous knowledge could be instrumental for sustainable development and practices for attaining the Sustainable Developmental Goals as set by the United Nations.

The relationship between indigenous knowledge and sustainable practices is not only significant but essential for achieving long-term environmental sustainability. By leveraging the insights gained from generations of interaction with local ecosystems, we can enhance our collective efforts to address pressing global challenges such as climate change, biodiversity loss, and environmental degradation. Integrating these traditional practices into contemporary sustainability efforts offers a pathway toward more effective and inclusive environmental stewardship.

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