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CONTINUITY AND PRESERVATION OF INDIGENOUS KNOWLEDGE SYSTEMS: A SOCIAL SCIENCE PERSPECTIVE ON EDUCATION AND INSTITUTIONAL PRACTICES

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Abstract: Indigenous Knowledge Systems (IKS) represent a vital component of cultural heritage embedded in local communities and transmitted through generations via social practices and lived experiences. This study examines the continuity, preservation, and representation of IKS from a social science perspective. It explores the influence of socio-cultural transformations such as globalization, modernization, and environmental change on the sustainability of IKS, revealing that while these factors contribute to knowledge erosion, community resilience, adaptive practices, and the role of cultural custodians support its continuity. The study further assesses the availability of institutional policies for long-term preservation of IKS in selected repositories, highlighting the absence of comprehensive frameworks despite emerging efforts in digital curation, ethical governance, and community-centered approaches, alongside challenges such as financial constraints and linguistic loss. Additionally, it evaluates the representation of IKS within educational curricula, indicating gradual inclusion with increasing recognition of its cultural and social significance, although limitations persist due to lack of teacher preparedness, standardization issues, and loss of contextual depth. The study concludes that effective preservation and promotion of IKS require strong community participation, supportive policy frameworks, and pedagogical transformation to ensure its relevance for cultural identity and sustainable development.

Index Terms -Indigenous Knowledge Systems, Cultural Heritage, Knowledge Preservation, Sustainable Development

I. INTRODUCTION

Indigenous Knowledge Systems (IKS) have traditionally been an integral part of community life, deeply embedded in cultural practices, social structures, and local ways of knowing, where knowledge is transmitted through lived experiences, oral traditions, and collective participation. Unlike formal systems of knowledge, IKS emphasize holistic understanding, interdependence with nature, and the development of values, identity, and social responsibility. In the contemporary context, however, rapid socio-cultural transformations, institutional shifts, and changing educational priorities have significantly influenced the continuity and relevance of these knowledge systems. As a result, there is a growing need to examine how IKS can be preserved, represented, and sustained within modern societal frameworks while retaining their original essence and contextual significance.

At the societal level, processes such as globalization, urbanization, and changing cultural dynamics have reshaped traditional modes of knowledge transmission. These transformations have affected intergenerational learning, community participation, and the role of cultural custodians, leading to both challenges and adaptive responses within Indigenous communities. While such changes often contribute to the marginalization of local knowledge, they also create opportunities for resilience, reinterpretation, and the emergence of hybrid knowledge practices. Understanding these dynamics is essential to analyze the continuity of IKS within evolving social contexts.

In addition, institutional efforts toward the preservation of IKS have gained increasing attention, particularly through the development of repositories, documentation centres, and policy frameworks. These initiatives aim to safeguard indigenous knowledge in digital and archival forms to ensure its long-term accessibility. However, the absence of comprehensive preservation policies, ethical considerations related to ownership and access, and challenges in documenting tacit knowledge highlight the complexity of institutionalizing IKS. This calls for a critical assessment of existing preservation mechanisms and the need for more inclusive, community-centered approaches that respect the cultural integrity of knowledge systems.

Furthermore, the representation of IKS within educational frameworks reflects a broader shift toward recognizing diverse ways of knowing in the learning process. From a social science perspective, the inclusion of IKS in curricula contributes to cultural continuity, identity formation, and the development of socially relevant knowledge. It also supports a more holistic approach to education by integrating values, ethics, and contextual understanding. However, challenges such as limited curricular integration, lack of teacher preparedness, and issues of standardization continue to restrict its effective implementation.

At a broader level, the growing recognition of IKS highlights its importance in addressing contemporary social and environmental challenges by offering context-specific, community-driven insights. The integration of IKS into institutional and educational frameworks reflects an ongoing transition from marginalization toward inclusion, emphasizing the need to balance preservation with adaptation. Therefore, this study seeks to explore the continuity of Indigenous Knowledge Systems, assess institutional preservation efforts, and evaluate their representation within educational contexts, with the aim of understanding their role in sustaining cultural heritage and promoting socially meaningful knowledge systems

II. REVIEW OF LITERATURE

A review of related literature was conducted for the present study focusing on Indigenous Knowledge Systems (IKS), their continuity within socio-cultural contexts, institutional preservation practices, and their representation in educational frameworks. Relevant academic databases such as Google Scholar and other scholarly repositories were used to identify studies using keywords like “Indigenous Knowledge Systems,” “IKS preservation,” “socio-cultural change and indigenous knowledge,” and “IKS in education.” Only literature directly aligned with the objectives of the study was included, while unrelated sources were excluded.

Scholars such as Fritjof Capra (1996) and Niklas Luhmann (1995) emphasize that knowledge systems function as complex, interconnected structures shaped by communication, adaptability, and social interactions. Research highlights that Indigenous Knowledge Systems are dynamic in nature, evolving through continuous interaction between communities and their environments. However, limited attention has been given to understanding how socio-cultural transformations influence the continuity of these systems in contemporary contexts.

Studies on globalization and cultural change (Briggs, 2005; Sillitoe, 2007) indicate that modernization processes often marginalize indigenous ways of knowing by prioritizing dominant knowledge frameworks. At the same time, research shows that community resilience, intergenerational transmission, and the role of cultural custodians contribute significantly to the preservation of IKS (Berkes, 2012). Scholars argue that Indigenous knowledge is not static but adaptive, capable of integrating new practices while maintaining its core values and identity.

Institutional perspectives on the preservation of IKS reveal growing efforts toward documentation and digital archiving. International frameworks such as the United Nations (2007) declaration on Indigenous rights emphasize the protection and promotion of traditional knowledge. However, studies (Ngulube, 2018; Chisita, 2020) indicate that many institutions lack comprehensive policies for long-term digital preservation. Issues such as data ownership, ethical concerns, lack of funding, and technological limitations pose significant challenges to effective preservation. Research further suggests that community participation and culturally sensitive approaches are essential for sustainable preservation practices.

In the educational context, literature highlights an increasing recognition of the importance of integrating IKS within curricula to promote cultural relevance and social understanding (Dei, 2011; Semali & Kincheloe, 1999). From a social science perspective, the inclusion of indigenous knowledge supports identity formation, value-based learning, and contextual understanding among learners. However, studies reveal that representation of IKS in curricula remains limited and often lacks depth due to challenges such as standardization, insufficient teacher preparedness, and the difficulty of translating oral traditions into formal educational content.

Global discussions on knowledge diversity and inclusive education (UNESCO, 2015) further support the integration of IKS as a means of addressing social and environmental challenges. Research indicates that incorporating multiple knowledge systems enhances critical thinking and promotes holistic learning. Nevertheless, the alignment between institutional structures and indigenous epistemologies continues to be a major concern.

Thus, the literature indicates that while there is growing recognition of the value of Indigenous Knowledge Systems across social, institutional, and educational domains, significant gaps remain in their continuity, preservation, and representation. Addressing these gaps requires a comprehensive approach that emphasizes community involvement, policy development, and the integration of culturally grounded knowledge within broader societal frameworks.

III. OBJECTIVES OF THE STUDY

1. To examine the influence of socio-cultural transformations on the continuity of Indigenous Knowledge Systems in local communities.
2. To assess the availability of institutional policies for long-term preservation of Indigenous Knowledge Systems in selected repositories.
3. To evaluate the representation of Indigenous Knowledge Systems within educational curricula from a social science perspective.

IV. RESEARCH QUESTION OF THE STUDY

- How do socio-cultural transformations influence the continuity of Indigenous Knowledge Systems in local communities?
- What is the availability of institutional policies for long-term preservation of Indigenous Knowledge Systems in selected repositories?
- How are Indigenous Knowledge Systems represented within educational curricula from a social science perspective?

V. SIGNIFICANCE OF THE STUDY

The present study holds significant value in understanding the role and relevance of Indigenous Knowledge Systems (IKS) within contemporary social, institutional, and educational contexts. It contributes to the social science discourse by examining how socio-cultural transformations influence the continuity of IKS, thereby providing insights into the challenges of cultural erosion as well as the mechanisms of resilience within local communities. This understanding is important for preserving cultural identity and strengthening intergenerational knowledge transmission.

The study is also significant in highlighting the gaps in institutional frameworks related to the long-term preservation of IKS. By assessing the availability of policies in selected repositories, it draws attention to the need for structured, ethical, and sustainable preservation strategies. This can support policymakers, researchers, and institutions in developing more inclusive and community-centered approaches for safeguarding indigenous knowledge.

Furthermore, the study contributes to the field of education by evaluating the representation of IKS within curricula from a social science perspective. It emphasizes the importance of integrating culturally relevant knowledge into educational frameworks to promote value-based learning, identity formation, and contextual understanding among learners. The findings of this study can assist educators and curriculum developers in making informed decisions regarding the inclusion of IKS in teaching-learning processes.

Overall, the study is significant as it bridges the gap between traditional knowledge and modern systems, offering a comprehensive understanding of how IKS can be preserved, promoted, and meaningfully integrated into society for sustainable and culturally grounded development.

VI. METHODOLOGY OF THE STUDY

Table 6.1: Methodology of the Study

Component	Description
Research Design	Qualitative and analytical approach focusing on Indigenous Knowledge Systems, socio-cultural change, preservation, and curriculum.
Literature Review	Review of peer-reviewed articles to identify themes, frameworks, and research gaps
Document Analysis	Analysis of policy documents and reports to understand preservation strategies and practices.
Book Analysis	Study of relevant books to explore theoretical and philosophical foundations
Analytical Approach	Thematic analysis used to identify patterns and develop overall understanding.

VII. FINDINGS AND ANALYSIS

Correspondence to objective 1: To examine the influence of socio-cultural transformations on the continuity of Indigenous Knowledge Systems in local communities.

To understand the influence of socio-cultural transformations on Indigenous Knowledge Systems (IKS), it is necessary to examine the interplay between external pressures such as globalization and modernization and internal community dynamics like intergenerational transmission and cultural resilience.

1. Drivers of Socio-Cultural Transformation

The continuity of IKS is primarily challenged by large-scale shifts that alter the environment and social structures of local communities.

- **Globalization and Modernization:** The influx of Western-centric educational systems and global media often devalues local ways of knowing. This creates a "hierarchy of knowledge" where scientific and technological frameworks are prioritized, leading the youth in Indigenous communities to view their own traditions as "backward" or irrelevant.

- **Environmental and Land Transformations:** Because IKS is deeply rooted in a relationship with the land (Traditional Ecological Knowledge), the loss of territory due to commercialization, invasive species, or climate change directly severs the connection required to maintain that knowledge.
- **Shift from Oral to Digital:** IKS is traditionally transmitted through oral storytelling, rituals, and ceremonies. The transition to a digital-first world often lacks the infrastructure to document these tacit, lived experiences, leading to knowledge gaps.

2. Factors for Continuity and Resilience

Despite these pressures, many communities demonstrate significant resilience through adaptive strategies.

- **The Role of Elders and Women:** These groups act as the primary custodians of cultural heritage. Continuity is strongest in communities where elders remain central to decision-making and where women's roles in agriculture and healthcare are upheld.
- **Hybridization and Adaptation:** IKS is not static. Continuity is often achieved by integrating traditional practices with modern tools—such as using digital platforms for global advocacy or combining indigenous fire management with modern conservation science.
- **Language as a Vessel:** Language is the primary vehicle for IKS. Communities that successfully advocate for indigenous-language instruction in schools show higher rates of knowledge retention.

Comparative Analysis: Erosion vs. Integration

The table below summarizes how specific socio-cultural shifts impact the survival of these knowledge systems.

Socio-Cultural Shift	Influence on Continuity	Common Outcome
Western Education	High Disruption	Youth disinterest; loss of local dialect/narratives.
Digital Revolution	Mixed	Potential for preservation vs. loss of tacit, oral nuances
Global Advocacy	High Support	Increased recognition in policy (e.g., climate adaptation).
Urban Migration	High Disruption	Geographic disconnect from ancestral lands and TEK.
Environmental Policy	Potential Support	Integration of IKS into sustainable development frameworks.

3. Indigenous Knowledge Continuity

The synthesized evidence suggests that socio-cultural transformation does not lead to an inevitable "disappearance" of knowledge but rather a **transformation of the system itself**.

- **Knowledge Marginalization:** There is a consistent trend of IKS being assigned a "lower status" in scientific circles, which remains a primary barrier to its continuity.
- **Resilience through Resistance:** Many communities are actively resisting cultural assimilation by demanding localized curricula and asserting land rights, which are the foundations of their knowledge systems.

- **Institutional Integration:** There is a growing global recognition (e.g., by the World Bank and UNFCCC) that IKS is essential for climate resilience. This shift in external perception provides a new "value" to IKS, potentially encouraging the younger generation to re-engage with their heritage.

The continuity of these systems depends less on isolation and more on the empowerment of local communities to control their own developmental destiny while maintaining the intergenerational bonds that define their identity.

Correspondence to objective 2: To assess the availability of institutional policies for long-term preservation of Indigenous Knowledge Systems in selected repositories.

The preservation of Indigenous Knowledge Systems (IKS) in institutional repositories remains a complex intersection of technical standards, ethical protocols, and legal frameworks. Current internet sources and academic repositories highlight a significant shift from "passive collection" to "active, community-led stewardship."

Below is a synthesized evaluation of institutional policies and preservation findings for selected repositories.

1. Landscape of Existing Institutional Policies

Most modern repositories have moved beyond standard archiving to adopt **Sui Generis (unique)** frameworks. Key findings include:

- **Integration of International Standards:** Many institutions are aligning policies with the *United Nations Declaration on the Rights of Indigenous Peoples (UNDRIP)*, emphasizing the right of Indigenous peoples to maintain and protect their cultural heritage.
- **The Rise of Custom Protocols:** Repositories are increasingly adopting specific protocols like the **Mukurtu CMS**, which allows for "Cultural Protocols" to dictate who can see what, when, and how. This replaces the traditional "Open Access" model with a "Graduated Access" model.
- **National Frameworks (e.g., India's NEP 2020):** Large-scale policies are now mandating the inclusion of IKS in formal education, which has forced academic libraries to draft new documentation and preservation policies to support this curriculum.

2. Core Pillars of Long-Term Preservation

The synthesis of current research reveals four critical pillars that define successful institutional policies:

Pillar	Focus Area	Finding
Governance	Data Sovereignty	Shifting control from the institution to the Indigenous community (First Nations, Tribes, etc.).
Ethics	Informed Consent	Moving toward <i>Free, Prior, and Informed Consent (FPIC)</i> as a mandatory prerequisite for any digitization project.
Technology	Digital Curation	Using open-source formats to prevent "technological obsolescence" and ensuring metadata reflects Indigenous worldviews.
Legal	IP Protection	Implementing policies that prevent "biopiracy" and the unauthorized commercialization of traditional medicine or crafts.

3. Challenges and Barriers

Despite the progress in policy drafting, several "implementation gaps" persist in the selected repositories:

- **The "Open Science" Conflict:** There is a fundamental tension between the "Open Science" movement (which promotes free access to all data) and the sacred/restricted nature of some Indigenous knowledge.
- **Financial Sustainability:** Many repositories rely on short-term grants. Long-term preservation requires permanent institutional funding for digital migration and community liaison roles.
- **Linguistic Erasure:** Policies often lack provisions for preserving knowledge in its original dialect. If the language dies, the nuances of the knowledge system (e.g., ecological or medicinal terms) are often lost in translation.

4. Strategic Recommendations for Repositories

Analysis of best practices suggests that for institutional policies to be effective for long-term preservation, they must:

- **Embed Community Consultation:** Policies should not be "top-down." They must involve Elders and Knowledge Keepers in the design of the repository's metadata and access rules.
- **Adopt the 7C Model:** (Co-design, Conceptualization, Collection, Correction, Curation, Circulation, and Creation). This ensures the knowledge remains a living system rather than a static artifact.
- **Prioritize Digital Repatriation:** Policies should include "exit strategies" where digital copies are returned to the community to be managed on their own terms.

Correspondence to objective 2: To evaluate the representation of Indigenous Knowledge Systems within educational curricula from a social science perspective.

The representation of **Indigenous Knowledge Systems (IKS)** in modern educational curricula remains a focal point of sociological and pedagogical debate. From a social science perspective, the shift from marginalization to integration is not merely a curricular change but an effort toward **epistemic justice** and **cultural continuity**.

Based on current research and global policy trends (2024–2026), the following synthesis evaluates the state of IKS within educational frameworks.

1. The Epistemological Landscape

Historically, educational systems have been dominated by **Western/Eurocentric epistemologies**, which often categorized IKS as "prescientific" or "anecdotal."

- **Epistemic Justice:** Recent studies highlight that integrating IKS is a move to restore "intellectual sovereignty." It recognizes that indigenous ways of knowing often holistic, relational, and experiential are valid frameworks for understanding the world.
- **Holistic Frameworks:** Unlike Western reductionism, IKS often integrates mind, body, and spirit. Social scientists observe that this aligns with 21st-century "Soft Skills" like empathy, community responsibility, and environmental ethics.

2. Global Curricular Trends

Several nations are actively redesigning their curricula to reflect indigenous heritages:

Region	Focus Area	Social Impact
India (NEP 2020)	Integration of "Jnana, Vignan, and Jeevan Darshan."	Fosters national identity and sustainable life skills through Vedic and local insights.
Sub-Saharan Africa	Indigenization of STEM and social studies.	Combats the "cultural deficit" paradigm and increases student engagement/retention.
North America/Oceania	Land-based learning and ancestral languages.	Supports decolonization and psychological well-being for marginalized groups.

3. Key Findings: Impact on Learners

The synthesis of current field reports indicates that a well-represented IKS curriculum yields three primary social benefits:

- **Identity Formation:** For indigenous students, seeing their culture validated in textbooks reduces "cultural conflict" and increases a sense of belonging.
- **Cognitive Flexibility:** For all students, IKS offers a "multidimensional approach" to problem-solving. For example, combining modern ecology with traditional water conservation techniques provides more robust environmental solutions.
- **Sustainability Literacy:** IKS inherently emphasizes **interdependence** with nature, which is critical for addressing global crises like climate change.

4. Persistent Challenges

Despite the positive momentum, several barriers hinder full and authentic representation:

- **The "Orality" Gap:** IKS is traditionally passed down through oral tradition. Converting this into standardized, written curricula often results in a loss of context and nuance.
- **Teacher Preparedness:** Most educators are trained in conventional pedagogical frameworks. Research shows a significant gap in teachers' ability to deliver IKS content without it becoming "superficial" or "tokenistic."
- **Standardization vs. Context:** IKS is often highly localized (place-based). Creating a "national" curriculum for IKS risks erasing the diversity of different indigenous groups.

Current research concludes that the representation of IKS is moving away from being an "extra" subject and toward becoming a **foundational philosophy**. However, for this to be successful, policy must move beyond mere content inclusion and focus on **pedagogical shifts** changing not just *what* is taught, but *how* it is taught (e.g., through storytelling, apprenticeship, and land-based activities). The inclusion of Indigenous Knowledge Systems serves as a bridge between tradition and innovation, preparing students for a globalized world while grounding them in local ecological and social realities.

VIII. KEY RECOMMENDATIONS OF THE STUDY

- Strengthen community participation by actively involving elders and cultural custodians in preservation and transmission of Indigenous Knowledge Systems (IKS).
- Develop comprehensive institutional policies focusing on ethical governance, data ownership, and long-term digital preservation of IKS.
- Promote integration of IKS in educational curricula with proper contextual depth rather than superficial inclusion.
- Provide teacher training and capacity building to effectively deliver IKS using culturally appropriate pedagogies.
- Encourage use of indigenous languages in documentation and education to prevent linguistic loss and preserve authenticity.
- Support digital documentation and curation with community consent to ensure accessibility and sustainability of knowledge.
- Ensure financial and infrastructural support for repositories and institutions working on IKS preservation.
- Promote interdisciplinary and hybrid approaches by combining traditional knowledge with modern scientific practices.
- Encourage policy alignment with global frameworks (like indigenous rights and sustainability goals) for broader recognition and protection.
- Foster research and awareness programs to highlight the relevance of IKS in addressing contemporary social and environmental challenges.

IX. CONCLUSION

The study concludes that Indigenous Knowledge Systems (IKS) are a vital part of cultural heritage and social identity, deeply embedded in community practices and traditions. Although socio-cultural transformations such as globalization, modernization, and environmental changes pose challenges to their continuity, IKS persist through community resilience, adaptive practices, and the role of cultural custodians. Institutional efforts for preservation are emerging but remain limited due to gaps in policies, ethical frameworks, funding, and issues like linguistic loss and data ownership. In the educational context, IKS is gradually being recognized and included in curricula; however, its effective integration is hindered by lack of teacher preparedness, standardization issues, and loss of contextual depth. Therefore, the study highlights that sustainable preservation and promotion of IKS require a holistic approach involving active community participation, strong institutional support, and meaningful educational integration to ensure its relevance for cultural continuity and sustainable development.

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