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### INTEGRATING TECHNOLOGY AND TRADITION: THE ROLES OF DIGITAL LIBRARIES IN IGBO APPRENTICESHIP SYSTEM

#### Abstract

*This paper is on integrating technology and tradition: the role of digital libraries in Igbo Apprenticeship System (IAS) in Nigeria. The paper examines how digital libraries can be harnessed to support the Igbo Apprenticeship System and ensure its sustainability in the face of rapid technological advancements. The Igbo Apprenticeship System (IAS), a traditional model of skill acquisition and entrepreneurship in Southeastern Nigeria, has significantly contributed to the socio-economic development of the Igbo community. However, as the global economy evolves, there is a pressing need for this indigenous system to adapt to modern technological advancements. This paper explores the role of digital libraries in integrating tradition with technology within the Igbo Apprenticeship System. By providing accessible resources and knowledge, digital libraries can enhance apprentices' training by offering materials on business management, digital marketing, and financial literacy. Furthermore, they can serve as a repository for preserving indigenous knowledge and practices, ensuring that essential skills and cultural heritage are documented for future generations. Drawing on relevant literatures, this paper explores the potential roles of digital libraries in addressing existing challenges within the Igbo Apprenticeship System while ensuring that this indigenous knowledge is preserved and modernized for future generations. Ultimately, the paper argues that the successful integration of digital libraries into the Igbo Apprenticeship System can create a sustainable model that respects traditional practices while embracing the opportunities presented by the digital age.*

**Keywords:** Libraries, Digital libraries, Igbo Apprenticeship System, Tradition, Technology

**Perpetua O. Ukwueze**

[perpetua.ukwueze@esut.edu.ng](mailto:perpetua.ukwueze@esut.edu.ng)

Enugu State University  
of Science and Technology,  
Enugu.

**Victoria O. Ugochukwu**

[victoria.ugochukwu@esut.edu.ng](mailto:victoria.ugochukwu@esut.edu.ng)

Enugu State University  
of Science and Technology,  
Enugu.

**Dorcas Nnedinso Ugwu**

[Ugwu.nnedinso@esut.edu.ng](mailto:Ugwu.nnedinso@esut.edu.ng)

Enugu State University of  
Science and Technology,  
Enugu.

#### 1.1 Introduction

The Igbo Apprenticeship System (IAS), known locally as “Igba-boi”, is a socio-economic structure integral to the Igbo ethnic group of Southeastern Nigeria. It is widely regarded as one of the world's most successful

indigenous business models, fostering entrepreneurship, wealth creation, and community development. Nwankwo (2017) describes the IAS as a community-driven venture capital model, where older, successful business owners mentor younger individuals,

passing on business knowledge and eventually providing capital for the apprentice to start their own enterprise. The system has contributed to the economic uplifting of many individuals and families, particularly through sectors like retail, trade, and manufacturing.

Traditionally, engaging in Igbo apprenticeship starts at a very young age. Abba, Ani and Ugochukwu (2023) stated that apprenticeship is a system where young people between 12 to 17 years of age are sent for training referred to as “Igba Odibo”, (to serve), “Imu Ahia”, (to learn trade) and “Imu Oruaka” (to learn handwork) in order to acquire the necessary skills needed for entrepreneurial activity. Typically, such person may have completed primary school and engages in hands-on training, supplemented by theoretical knowledge, in their chosen vocation, trade, or occupation (Kanu, 2019). The duration of the apprenticeship typically lasts for several years ranging from 5 to 10 years depending on the arrangement between the apprentice (Nwa-boy) and the master (Oga). The climax of the system ends with the settlement stage. At this point, the apprentice is usually in the late teens or early twenties. The master settles the apprentice by setting up a business for him, by making provision of start-up capital and the required guidance up until certain level of business maturity (Okeke, 2021).

The Igbo apprenticeship system, deeply rooted in the traditions of the Igbo people, has long served as a vital socio-economic model in Nigeria. This system fosters entrepreneurship by passing practical skills from masters to apprentices in various trades. However, recent observations indicate that many participants choose this path not solely out of respect for tradition but due to growing scepticism toward formal education. According to Obasi (2020), the rigid structure of formal education often lacks practical training, contributing to a mismatch between graduates' skills and labour market demands,

which has exacerbated unemployment in Nigeria. As a result, many see the Igbo apprenticeship system as a viable alternative for economic independence.

During this apprenticeship period, many apprentices experience gap in formal education. As they transit from school to full-time apprenticeship training, their focus shifts primarily to learning practical business and vocational skills under guidance of their master. This shift often results in limited access to structured academic learning, reducing opportunities for apprentices to continue their formal education, develop literacy in emerging technologies or acquire broader knowledge outside their immediate trade. Consequently, this educational gap may hinder their ability to adapt to modern economic trends, leaving them less equipped to compete in today's information-driven world.

While this traditional system remains effective, the integration of technology, specifically through digital libraries, offers new opportunities for growth and development. Digital libraries, as outlined by Dove (2019), provide access to vast information resources that can enhance literacy, broaden apprentices' knowledge, and support their business ventures. By leveraging digital tools, apprentices can access up-to-date information on market trends, financial literacy, and technical innovations, which are crucial in today's evolving economy.

Merging the tradition of Igbo apprenticeship with the resources offered by digital libraries can help bridge the gap between informal training and modern education. According to Ofoegbu (2018), the successful fusion of traditional knowledge with technology creates a dynamic learning environment that preserves cultural values while embracing modern innovations. This synergy not only strengthens the apprenticeship model but also provides apprentices with the competitive edge needed to thrive in an increasingly digital world. Thus,

digital libraries play a crucial role in modernizing the Igbo apprenticeship system while maintaining its cultural integrity, offering a more promising future for participants.

## 2.1 Literature Review

### 2.2 Challenges of Igbo Apprenticeship System in the Modern Age

The challenges facing the Igbo Apprenticeship System in Nigeria are numerous. According to Okeke and Osang (2021), a challenge of the Igbo apprenticeship scheme in its early practice is the absence of classroom work and reading, hence, no certificate is issued for successful completion of the training. In another instance, Adekola (2013) identifies that one major problem of Igbo apprenticeship scheme is that, it is generally believed to be meant for people who cannot do well in the formal education system or those whose parents cannot afford to sponsor their education. This problem makes it difficult to attract young graduates and youths of school age into the system. However, contrary to this opinion, experience has shown that people in IAS are intelligent and have a certain level of intellectual capability. But they choose the path of apprentice due to growing skepticism toward formal education and the very fact that formal education does not guarantee sustainable employment in Nigeria. Therefore, this paper identifies the following challenges of Igbo apprenticeship system in this modern age.

1. **Limited Formal Education:** The lack of formal education among many apprentices limits their ability to fully grasp business and literacy skills needed in a modern economy. According to Uche and Nnaji (2020), many apprentices lack the foundational education that would enhance their understanding of modern business practices, creating a gap in their overall development
2. **Access to Capital:** Securing adequate

capital to start a business is a common struggle for apprentices. As noted by Ezech (2019), the financial settlement provided by masters may be insufficient in today's economy, where starting a business requires more substantial capital

3. **Lack of Global Exposure:** The localized nature of the Igbo apprenticeship system often limits apprentices' access to global trends and innovations. Okeke (2021) states, global exposure through digital tools remains limited in the system, constraining the apprentices' ability to innovate or explore international markets
4. **Outdated Practices:** Some practices in the apprenticeship system do not align with modern business operations, which can hinder competitiveness. Nwogu (2019) argues that while the system excels in practical training, it often overlooks the integration of modern business models like digital marketing and e-commerce
5. **Inconsistent Mentorship:** The variability in mentorship quality can affect apprentices' development. According to Umeh (2018), inconsistent mentorship, where some masters lack the business acumen or teaching skills, can significantly impact the effectiveness of the system
6. **Economic Instability:** Economic fluctuations make it difficult for apprentices to grow their businesses after completing training. Ozoemena (2020) explains that economic instability, including inflation and market uncertainty, poses a significant threat to the sustainability of small businesses started by apprentices
7. **Technological Gaps:** Many apprentices lack access to modern technological tools, limiting their business operations. Ofoegbu (2018) highlights that the technological gap within the system creates a disadvantage, as many

apprentices are not exposed to tools that can improve efficiency or expand their market reach

- 8. Social Perception of Informal Sector:** The informal sector is often perceived as inferior to formal employment. As noted by Odozi (2019), despite its economic potential, the apprenticeship system faces a societal bias where white-collar jobs are more highly regarded, discouraging participation in informal trade

### **2.3 Digital Libraries: Bridging Tradition and Technology**

Libraries are custodians of knowledge. They safeguard cultural heritage and the memories of countries. According to Korres and Kokostsaki (2013) libraries are public or private institutions that maintain collections which contain a wealth of cultural material – including books, newspapers, films, photographs and maps – representing the richness of history, the cultural and linguistic diversity of one country or a whole continent. To ensure that this world of knowledge and information is not threatened by extinction and following the advent of internet and digital technologies, digital libraries came to birth. Digital libraries are collection of services and information objects that are available electronically. According to Suradkar and Dalve (2018), digital library is nothing but the transformation from traditional library where coherent access to a very large, organized repository of information and knowledge is provided. International Federation of Library Associations and Institutions (IFLA) recognizes that a digital library forms an integral part of the services of a library, applying new technology to provide access to digital collections.

The mission of the digital library is to give direct access to information resources, in a structured and authoritative manner. This is why Trivedi (2010) stated that digital libraries

are often used by individuals working alone. In order to identify a digital library, (Costabile and Semeraro, in Gani and Magoi (2014) noted attributes of a digital library to include: the ability access to information over a network, facilitate immediate and simultaneous access to information, interactive (meaning that it supports 2 ways communication with the users), they exist in multimedia format of text, video, graphics, sound and animation. Above all, it increases speed and effectiveness in finding information and to decrease mental effort put into each search of information in the net. Therefore, digital libraries collect, organize, store, disseminate, retrieve and preserve information, including historical and cultural documents that are at the risk of physical decay (Muller, 2019)

Digital libraries contribute to social cohesion and cultural heritage (Manjunatha, 2022). This is why Ya'u in Bribena, Dushu, Irenea (2022) asserted that virtual libraries create the opportunity to address the scarcity of teaching and research. He further stated that an indigenous virtual library would allow the institutions and indigenous researchers to share their own research outputs with the global community as well as ensure the preservation of Nigerian cultural heritages. Therefore, digital libraries enable global accessibility by distributing online access to digital content, it approves open access inventiveness, promoting unlimited access to knowledge, exploits social media platform to upgrades contents, improve partnership and engage users.

### **2.4 Case Studies of Digital Libraries Preserving Tradition**

Several libraries have successfully bridged the gap between preserving traditional knowledge and embracing modern technology through digital libraries. In most cases, it is regarded as preserving cultural heritage or indigenous knowledge. Dim and Osadebe in Ogbu and Udensi (2024) define cultural heritage as intangible attributes of a group or society that are inherited from past generations,



maintained in the present for the benefit of the future generations. This information resources can be in different format such as archival documents, artifacts, sounds, audiovisual, museum objects and so on. On the other hand, Grenier in Adeniyi and Subair (2013) define Indigenous Knowledge as the unique tradition and local knowledge existing within and developed around specific conditions of women and men indigenous to geographic area. Based on this, it is sufficing to say that IAS is a cultural heritage and indigenous knowledge of the Southeastern part on Nigeria. Consequently, there is need for its preservation to ensure its use by the future generation.

A study by Korres and Kokostsaki (2013) ascertained that preservation of cultural and scientific heritage has undergone substantial changes and has come across new challenges. It further stated that traditional methods for preservation have been backed by technological tools of enormous capacities, creating the impression of a constant “revolution”. Most importantly, preservation has shifted from a passive stance (storage) to more active attitude (digitization, migration). In another study by Neetha and Rakhi (2024), they identified digital libraries as one of the blessings provided to save knowledge system. They went further to note that the swift adoption of digital media in today's fast paced world presents excellent opportunities to speed up the process of preserving, managing, and disseminating knowledge that is particular to our communities. By utilizing technology to digitize and share traditional materials, digital libraries help to ensure that indigenous knowledge systems are not lost and that they are transmitted to future generations.

In Nigeria, the National Library of Nigeria's Digital library preserves Nigeria's cultural heritage and makes it accessible online, they develop a digital archive of Nigerian music and video recordings, digital repository of Nigerian newspapers, digitization of rare books and manuscripts, it increased accessibility to Nigerian cultural

heritage, enhanced research and education (National Library of Nigeria, 2020). Another instance is the Yoruba cultural heritage digital library in the University of Ibadan. There, Yoruba language texts, manuscripts, artifact, arts are digitized and deposited for easy accessibility digitally. This, in essence, helps in promoting cultural exchange and understanding (University of Ibadan press, 2018). Similarly, the University of Ghana digital library preserves Ghanaian and West African cultural heritage. This can be replicated with Igbo Apprenticeship system of the Southeastern Nigeria.

## **2.5 The roles of digital libraries in integrating technology in the Igbo Apprenticeship system**

The advent of Internet and digital technologies has undoubtedly influenced our daily lives, the way we think and act. This phenomenon influenced also the process and organization of knowledge, education and research. Centuries of human knowledge, cultural and scientific achievements stored in libraries, archives or museums can now be widely disseminated through universal digital libraries. In this context, one can remark that over the centuries, cultural and scientific heritage had never had such an optimistic view at the future. Preservation of this valuable heritage can be now achieved through new more efficient technological tools that facilitate its collection, storage and management (Korres and Kokostsaki, 2013). Digital Libraries can play vital roles in the Igbo Apprenticeship system in the technological environment through:

- 1. Preservation of Traditional Knowledge:** Digital libraries play a key role in preserving cultural heritage by digitizing indigenous knowledge systems. According to Ofoegbu (2018), digital tools can archive and disseminate traditional practices, ensuring that skills passed down through generations are not

lost. This makes knowledge not only accessible but also adaptable to modern contexts.

2. **Access to Up-to-Date Information:** Digital libraries provide apprentices access to a wide range of information that supports practical skill development. Dove (2019) emphasizes that digital libraries offer real-time access to global resources such as market trends, business strategies, and new techniques, enabling apprentices to stay competitive in a rapidly evolving economy.
3. **Enhanced Learning Opportunities:** Beyond practical skills, apprentices benefit from theoretical knowledge through digital libraries. According to Eke (2020), digital libraries promote self-directed learning, offering access to online courses, business management guides, and technical manuals, which complement traditional hands-on training.
4. **Connecting Apprentices with Broader Networks:** The ability to connect with peers and experts globally is critical for modern apprenticeships. Okeke (2021) argues that digital libraries enable apprentices to participate in wider knowledge-sharing networks, fostering collaboration and exposure to global practices, while retaining their traditional roots.
5. **Entrepreneurial Development:** Digital libraries also promote entrepreneurship. Uzoechi (2020) discusses how access to digital resources enhances financial literacy and business management skills among apprentices, equipping them to transform from apprentices into successful business owners, a vital aspect of the Igbo apprenticeship model.
6. **Encouraging Innovation:** Exposure to digital resources encourages apprentices to

blend traditional skills with modern technology. Nwogu (2019) suggests that digital libraries inspire innovation, allowing apprentices to apply contemporary tools and techniques to their crafts, further enhancing the relevance and adaptability of the Igbo apprenticeship system.

## 2.6 Challenges of digital libraries in integrating technology in the Igbo Apprenticeship system

Integrating technology into the Igbo apprenticeship system through digital libraries presents unique challenges due to the traditional nature of the system, the socio-cultural dynamics of the Igbo people, and the technological landscape in many African regions. The Igbo apprenticeship system is a community-based, informal model that emphasizes learning through experience, mentorship, and trust. While digital libraries offer a wealth of knowledge and tools for innovation, their integration into such a traditional system is met with several challenges.

**Cultural Resistance:** One of the significant challenges is cultural resistance. The Igbo apprenticeship system is deeply rooted in customs, values, and interpersonal relationships. Introducing digital libraries, which involve remote access to information and less face-to-face interaction, may be viewed as a threat to the personal mentorship component of the apprenticeship. Elders and established business owners, who are the custodians of the apprenticeship process, may see technology as undermining the time-honoured methods of teaching. Additionally, there may be mistrust surrounding the efficacy of digital tools, with some questioning whether online resources can adequately replace hands-on experience and mentorship.

**Limited Technological Infrastructure:** Many

regions where the Igbo apprenticeship system thrives are still grappling with underdeveloped technological infrastructure. The digital divide in Nigeria, particularly in rural areas, makes access to digital libraries challenging. Inconsistent electricity, limited internet access, and lack of affordable devices are significant barriers to fully utilizing digital library resources. Without robust technological infrastructure, apprentices and mentors may find it difficult to integrate these tools into their daily practices, limiting the potential for growth and knowledge expansion.

**Language Barrier:** Another obstacle is the language of digital resources. Most digital libraries operate in English or other major global languages, which may not align with the local language of the Igbo people. While many apprentices may speak English, the primary language of business and social interactions within the apprenticeship system is often Igbo. The scarcity of digital resources in Igbo, or tailored to local cultural contexts, makes it harder for the system to engage fully with digital libraries. This language disconnect can reduce the relevance and accessibility of information.

**Lack of Digital Literacy:** Digital literacy is essential for effectively using digital libraries. However, many apprentices and even mentors within the Igbo system may lack the necessary skills to navigate and utilize online resources. Basic skills such as using search engines, managing digital resources, or critically evaluating information are often underdeveloped. Without proper digital literacy education, the full potential of digital libraries in enhancing the apprenticeship system remains untapped. There is a need for targeted training programs that equip both apprentices and mentors with the skills required to engage effectively with these tools.

**Cost and Sustainability:** Maintaining access to digital libraries often comes with financial

costs, including subscription fees, data charges, and the need for updated devices. For many apprentices, who are often from lower-income backgrounds, the cost of accessing digital libraries may be prohibitive. Even if access is initially provided through community programs or sponsors, sustaining this access over time remains a challenge. Moreover, creating a model where digital libraries complement, rather than replace, traditional methods require significant investment in training, content localization, and infrastructure development.

## **2.7 Opportunities for Digital Libraries in Integrating Technology into the Igbo Apprenticeship System**

Despite the challenges, integrating digital libraries into the Igbo apprenticeship system presents numerous opportunities that could enhance and modernize the traditional model while preserving its core values.

**Access to a Wealth of Knowledge:** Digital libraries provide apprentices with access to vast resources beyond what traditional apprenticeships offer. While the traditional model focuses on hands-on learning from a mentor, digital libraries can offer materials such as e-books, journals, instructional videos, and case studies that complement experiential learning. This broader access to knowledge helps apprentices learn more about global best practices, new technologies, business strategies, and innovations in their fields.

**Skills Development and Lifelong Learning:** By incorporating digital libraries, apprentices gain the opportunity to develop essential 21st-century skills, including digital literacy, critical thinking, and problem-solving. These are skills that will be crucial for success in the modern economy, where technology plays an increasingly important role. Apprentices can continue learning beyond the direct supervision of their mentors, empowering them to become lifelong learners and adapt to evolving industry

demands.

**Supplement to Traditional Mentorship:**

Digital libraries can act as a valuable supplement to the one-on-one mentorship characteristic of the Igbo apprenticeship system. When mentors are not physically present or are unavailable to provide guidance, apprentices can independently access digital resources for information or problem-solving. This independence allows apprentices to take initiative in their learning while still benefiting from the mentorship of their "Ogas." It also helps to fill in knowledge gaps, especially in specialized or technical areas where mentors may lack expertise.

**Increased Business Opportunities and Networking:**

By exposing apprentices to global business practices, digital libraries can help them tap into new markets and business opportunities. For example, resources on e-commerce, digital marketing, and online entrepreneurship can encourage apprentices to expand their businesses beyond the local level. Additionally, through access to digital platforms, apprentices can network with other business owners, innovators, and professionals both within and outside Nigeria, broadening their business and professional circles.

**Cost-Effective Access to Education:** Digital libraries provide a cost-effective means of accessing educational materials. For apprentices from lower-income backgrounds, who may not have the financial capacity to pursue formal education or expensive training programs, digital libraries offer a free or low-cost alternative. Open-access materials, including tutorials, guides, and business development resources, can empower these individuals with the knowledge needed to succeed without the need for formal schooling.

**Preservation and Digitization of Indigenous Knowledge:** Digital libraries can be used to digitize and preserve traditional Igbo

knowledge and practices within the apprenticeship system. This is an opportunity to record and catalogue indigenous business strategies, trade secrets, and cultural practices that are passed down orally in the system. By creating a digital repository of these practices, the Igbo apprenticeship system can ensure that its unique knowledge is preserved for future generations while making it accessible to a broader audience.

**Bridging the Digital Divide:** Incorporating digital libraries into the apprenticeship system can help bridge the digital divide by introducing apprentices to technology and the digital world early in their careers. Many apprentices in the Igbo system, particularly in rural areas, may have limited exposure to digital tools. By integrating digital libraries into their learning experience, they gain familiarity with the internet, online resources, and digital platforms, which can help prepare them for the future of work and global business.

**Flexible and Personalized Learning:** With digital libraries, apprentices can learn at their own pace and focus on areas that interest them the most. This flexibility allows apprentices to explore specialized topics or develop skills that may not be emphasized in their traditional training. The self-paced nature of digital libraries makes it easier for apprentices to balance their on-the-job training with supplementary education, creating a more personalized learning experience.

**Promoting Innovation and Creativity:** Exposure to a broader range of knowledge through digital libraries can inspire apprentices to innovate within their fields. For instance, by learning about new technologies, tools, or methods, they may find ways to improve or modernize their traditional practices. The Igbo apprenticeship system, which is already known for producing successful entrepreneurs, could benefit from apprentices who are more creative, tech-savvy, and open to adopting new business



models or innovations.

### Conclusion

The Igbo Apprenticeship System (IAS), known locally as “Igba-boy”, is a socio-economic structure integral to the Igbo ethnic group of Southeastern Nigeria. It is widely regarded as one of the world's most successful indigenous business models, fostering entrepreneurship, wealth creation, and community development. Despite the numerous achievements, the system is faced with numerous challenges among which is the general perception that it is meant for people who cannot do well in the formal education system, lack of global exposure, technological gap, etc. Consequent to these, digital libraries have the potential to enhance the Igbo apprenticeship system by providing access to a broader range of knowledge and resources thereby, addressing these challenges. To achieve this, cultural resistance, limited infrastructure, language barriers, digital literacy gaps, and financial constraints are critical hurdles that must be navigated. Successful integration will depend on creating localized, culturally sensitive digital solutions, improving infrastructure, and promoting digital literacy within the community. As such, digital libraries could play a complementary role rather than a replacement for traditional methods, allowing both systems to coexist and thrive.

### Recommendations

For the successful integrating Digital Libraries into the Igbo Apprenticeship System, this paper makes the following recommendations:

- It is crucial to engage key stakeholders within the community, particularly the business owners and mentors (known as "Ogas"). They should be actively involved in discussions about how technology can complement, rather than replace, traditional methods.
- The government should partner with the private sector to improve internet connectivity, provide affordable devices,

and ensure consistent electricity supply. Public-private partnerships (PPPs) can be a viable solution for expanding infrastructure and increasing accessibility to digital resources.

- Governments, NGOs, and educational institutions should collaborate to create content that is culturally relevant and easy to understand, ensuring that digital libraries are accessible to apprentices and mentors alike.
- Targeted training programs for apprentices and their mentors on how to navigate, evaluate, and utilize digital resources effectively should be designed. These training programs should be offered at little to no cost and incorporate hands-on learning.
- Adoption of hybrid model of learning which would allow apprentices to continue learning through hands-on experience and mentorship, while using digital libraries as supplementary resources. This hybrid model ensures that the core principles of the apprenticeship system remain intact, while apprentices gain access to wider pools of knowledge through digital resources.

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