



REVAMPING AFRICAN HISTORICAL CULTURE FOR A SUSTAINABLE DEVELOPMENT THROUGH MUSIC AND LANGUAGE IN THE DIGITAL AGE.

Bamidele Olumilua¹; *Olasebikan Mathew Kehinde²; Eluwole Ademola Gbenga³ and Ojo Mayowa Christopher⁴

^{1,2,3,4}University of Education, Science and Technology Ikere Ekiti. *olasebikan.mathew@bouesti.edu.ng

Abstract

This study explores the complex relationship between music, culture, Language and technology with an emphasis on advancing African heritage and culture in the digital age. Through the use of multidisciplinary methodology, the research explores the ways different musical languages -including traditional rhythms, instruments and modern compositions can be utilized to conserve, honour and propagate African cultural identities through digital media. Drawing from ethnographic research, case studies, and digital humanities methodologies, the research explores the transformative potentials of digital technologies in amplifying the reach and impact of African musical expressions. It examines the roles of social media, streaming platforms, and virtual reality in democratizing access to African music, fostering global connections, and empowering communities to reclaim narrative of cultural authenticity and resilience. The study further interrogates the challenges and opportunities presented by the digital landscape, including issue of cultural appropriation, commodification, and the safeguarding of intangible cultural heritage. The research seeks to propose ethical frameworks and innovative strategies for leveraging musical languages as catalysts for cultural revitalization and intercultural dialogue in the digital age. It will contribute to deeper understanding of the relationship between music, technology, and cultural identity which will foster cultural pride, diversity, and connectivity in an increasing interconnected world.

Keywords: Harmonizing, African, culture, musical languages, Application, Digital age

Introduction

African music is a dynamic and integral aspect of the continent's cultural heritage. Historically, music has been a medium for storytelling, community bonding, and cultural expression. However, the advent of digital technology poses both challenges and opportunities for the preservation and evolution of these musical traditions. The protection and promotion of cultural heritage in the modern day encounter novel obstacles and opportunities as a result of the emergence of digital technologies. African civilizations, known for their extensive musical traditions, provide a distinctive opportunity for exploration, adaptation, and creativity in this digital era. This work explores the changing nature of African musical languages in the digital era, investigating how technology connects with tradition to both safeguard cultural identities and encourage artistic innovation.

The musical heritage of Africa is as varied as its landscapes, languages, and cultures. Each region showcases a plethora of musical traditions that embody centuries of history, spirituality, and community, ranging from the rhythmic pulses of West African drumming to the intricate melodies of East African mbira. African music is distinguished by its oral transmission, communal engagement, and incorporation into everyday life, as seen by researchers like Kofi Agawu, John Miller Chernoff, and Gerhard Kubik. It serves as a means of fostering social solidarity and cultural expression.

Yet, the advent of digital technologies has completely transformed the worldwide distribution of music and culture, offering both obstacles and possibilities for African communities. Platforms like YouTube, Spotify, and SoundCloud have made it easier for African music to be shared globally, allowing artists to connect with new listeners and build international fan bases. Conversely, the issues of cultural appropriation, intellectual property rights, and the decline of traditional practices have initiated discussions over the influence of digitalization on African musical legacy.

In the midst of these changes, the idea of blending African musical traditions with digital technologies has become popular as a way to connect the past and the present, and to promote cultural preservation in a quickly evolving world. African artists, scholars, and entrepreneurs are utilising technology in various ways to preserve archival recordings, enhance music education, and engage with their communities. This includes using digital audio workstations for archiving and incorporating mobile applications for educational and community purposes. These efforts aim to combine technological advancements with a strong connection to African cultural heritage. On this note, various case studies and best practices provide insights into the use of digital technologies to harmonise African musical languages. The United States State Department's Bureau of Educational and Cultural Affairs established the One Beat programme, which brings together musicians from all over the world, including Africa, to collaborate on original compositions and community-based projects that utilize music to effect social change. Similarly, the Nile Project uses internet platforms to connect musicians and listeners from around the Nile Basin, promoting cross-cultural discourse and environmental awareness through music.

In conclusion, bringing African culture and musical languages into harmony in the digital age is a dynamic and complex effort that calls for ingenuity, cooperation, and cultural awareness. African communities can retain their cultural legacy and foster new artistic expression and interaction forms that appeal to global audiences by using digital technology while maintaining a strong tradition-based foundation.

The rapid advancement of digital technology threatens the authenticity and continuity of African musical languages. There is a need to explore how these traditions can be harmonized with modern digital practices to ensure their preservation and relevance. In the digital age, the rich and diverse musical traditions of African cultures face both unprecedented opportunities and significant challenges. As globalization and digital technologies reshape the ways music is created, shared, and consumed, there is a growing concern that traditional African musical languages might be diluted or lost amidst the dominance of global popular culture. Conversely, digital platforms offer new avenues for preserving, revitalizing, and harmonizing these musical traditions. This research aims to explore how digital technologies can be effectively harnessed to support the preservation, adaptation, and integration of African musical languages, ensuring that they remain vibrant and relevant in the contemporary cultural landscape. The study will investigate the potential of digital tools and platforms in documenting, teaching, and promoting African musical heritage, and will examine the interplay between traditional practices and modern innovations in music. Through this exploration, the research seeks to contribute to a deeper understanding of how African musical traditions can thrive in the digital age, fostering a harmonious blend of cultural heritage and technological advancement. Objectives of the study include to:

- To investigate the current state of African musical languages in the digital age.
- To identify digital tools and platforms that aid in the preservation of these musical traditions.
- To analyze the impact of digital technology on the authenticity and cultural significance of African music.
- To catalogue and document various traditional African musical languages and their unique characteristics.
- To design and evaluate digital platforms that facilitate the sharing and teaching of African musical languages.
- The following research questions were formulated and they guided the study:
- How are African musical languages being documented and archived using digital technology?
- What are the benefits and challenges of integrating digital tools with traditional African music?
- How can digital technology enhance the preservation and propagation of African musical heritage?

This study is significant as it provides insights into the innovative ways digital technology can be leveraged to preserve African musical languages. It contributes to the broader discourse on cultural preservation and digital integration, offering practical recommendations for stakeholders. The study focuses on African musical traditions and their interaction with digital technology. It does not cover other forms of African art or the technological impact on music outside of Africa.

Literature Review

The intersection of African musical traditions and digital technologies represents a dynamic field of study that addresses the preservation, adaptation, and dissemination of cultural heritage in the modern era. This literature review explores existing research on the application of digital tools to African musical languages, examining the ways in which these technologies can enhance the understanding and appreciation of Africa's rich musical heritage. African musical traditions is characterized by its diversity, encompassing a wide range of musical languages, styles, and instruments.

According to Nketia (1999), African musical traditions are deeply intertwined with social, cultural, and religious practices, making them integral to the continent's cultural identity. Traditional African music often involves complex rhythms, polyphonic structures, and the use of indigenous instruments such as drums, mbira, and kora. These musical forms are passed down through generations via oral traditions, making them susceptible to erosion in the face of globalization and modernization.

Impact of Globalization on African Music: Globalization has brought both challenges and opportunities for African musical traditions. On one hand, it has facilitated the spread of African music to global audiences, leading to increased recognition and appreciation. On the other hand, it has also exposed African music to the homogenizing effects of global popular culture, which can threaten the distinctiveness of traditional musical languages.

As Collins (2004) points out, the dominance of Western music genres and the music industry's commercialization can overshadow indigenous African music, leading to cultural homogenization. Digital Technologies and Cultural Preservation Digital technologies offer powerful tools for the preservation and revitalization of African musical traditions.

Digitization projects, such as those undertaken by the International Library of African Music (ILAM), have played a crucial role in documenting and archiving traditional African music. These efforts ensure that future generations have access to the rich heritage of African music. Furthermore, digital platforms enable the creation of virtual communities where musicians, scholars, and enthusiasts can share knowledge and collaborate on preserving musical traditions. Educational Applications of Digital Technologies Digital technologies also provide innovative ways to teach and learn African musical languages. E-learning platforms, mobile applications, and interactive websites can offer accessible and engaging resources for learning traditional African music. For instance, programs like "Playing for Change" use digital media to connect musicians and learners worldwide, fostering cross-cultural exchange and appreciation.

Research by Olorunyomi (2012) highlights the potential of digital tools in making African music education more inclusive and widespread, reaching audiences beyond geographical and cultural boundaries. Integration of Traditional and Modern Practices: The integration of traditional African musical practices with modern digital tools can lead to the creation of new, hybrid forms of music that reflect contemporary cultural dynamics. Artists like Youssou N'Dour and Angelique Kidjo have successfully blended traditional African elements with modern genres, demonstrating the potential for innovation and cultural exchange. This fusion not only preserves traditional elements but also makes them relevant to younger generations who are more attuned to modern musical trends.

Challenges and Ethical Considerations: Despite the potential benefits, the use of digital technologies in preserving and promoting African musical languages raises several challenges and ethical considerations. Issues such as intellectual property rights, cultural appropriation, and the digital divide must be addressed to ensure that digital initiatives are respectful and equitable. Scholars like Mhiripiri and Chari (2017) emphasize the importance of involving local communities in digitization efforts to ensure that their cultural expressions are accurately represented and appropriately utilized. Conclusively, the harmonization of African culture through the application of digital technologies to musical languages represents a promising yet complex endeavour. While digital tools offer significant opportunities for preservation, education, and innovation, it is crucial to approach these efforts with sensitivity to cultural contexts and ethical considerations. By leveraging digital technologies thoughtfully and inclusively, it is possible to ensure that Africa's rich musical heritage continues to thrive in the digital age, contributing to a vibrant and diverse global cultural landscape

African Culture and Musical Language in Historical Perspective

The richness and diversity of the continent's legacy are attested to by the history of African culture and music. African communities have used music for millennia as a vital component of communication, cultural expression, and spiritual bonding. This essay highlights the significant influence of music in forming identities, promoting social cohesiveness, and maintaining collective memory by examining the historical development of African musical traditions within the larger framework of cultural development.

The earliest human civilizations on the continent are the source of the African musical language. Music was an integral part of everyday life, rites, and ceremonies, from the sophisticated drumming ceremonies of ancient kingdoms to the rhythmic chanting of hunter-gatherer groups. Music functioned as a mnemonic mechanism to preserve and transmit oral traditions, which were passed down from generation to generation as a repository of knowledge, history, and cultural values.

African musical language has evolved over time due to a multitude of factors, such as colonial interactions, migration patterns, and trade networks. Musical styles such as the griot traditions of the Sahel and the Arab-Islamic musical heritage of the Maghreb were cross-pollinated by the trans-Saharan trade routes, which facilitated the exchange of musical instruments, ideas, and techniques between North Africa, West Africa, and beyond. African societies were severely disrupted throughout the colonial era by the introduction of European languages, religions, and cultural standards. African musical language endured as a form of cultural identity, resistance, and resiliency in the face of these obstacles. African musicians created hybrid musical genres that reflected both indigenous history and colonial conditions by adapting traditional instruments and rhythms to new settings, as documented by scholars like Akin Euba and J.H. Kwabena Nketia.

Africa saw a surge of independence movements in the middle of the 20th century, driven by the continent's aspirations for unity, sovereignty, and self-determination. Throughout these battles, music was essential as a rallying cry for justice, freedom, and unity. Musicians like Fela Kuti, Thomas Mapfumo, and Miriam Makeba celebrated African identity, criticised colonial oppression, and promoted social change through their music, inspiring a generation of activists and revolutionaries throughout the continent.

African musical language is still developing and adapting in the twenty-first century in response to social changes, technological advancements, and globalisation. African music, which transcends boundaries and resonates with listeners worldwide, has become a significant force in the global cultural landscape. This is evident in the genres of Afrobeat and Afro-house, which combine traditional rhythms with electronic beats. Other notable examples of African music include Burna Boy, Wizkid, and Beyoncé.

In summary, the development of African culture and music across time bears witness to the peoples of the continent's tenacity, inventiveness, and vitality. In order to maintain the continuity and relevance of African

culture for future generations, it is crucial that Africa embraces innovation while still preserving its traditional musical history as it continues to negotiate the complexity of the modern world.

Overview of African Musical Languages

African musical languages are diverse, encompassing various rhythms, instruments, and vocal styles unique to different regions and communities (Nketia, 1974). The key features of African musical or tonal languages are tonal systems which are of two types contour tones and level tones, language families which are Niger-Congo languages like Yoruba and Igbo with rich tonal system, Nilo-Sahara languages such as Luo and Dinka, Afro-Asiatic languages like Hausa. Also, musical influence is another feature of African musical languages as it often influences traditional music where the melody can reflect the tone of the word. Communication which another integral part of African musical languages play a pivotal role as misuse of tone can lead to misunderstanding, as different tones can change the meaning of the word entirely.

The Role of Music in African Cultures

Music serves multiple functions in African societies, from ceremonial and religious purposes to storytelling and social cohesion (Agawu, 2003). Here are some key aspects of the role of music in African culture, social functions which are community building, communication i.e it is used to communicate messages, stories, and historical events,. Cultural Expression which includes storytelling and oral History, Ritual and ceremonies as music is integral to various ceremonies including wedding, funerals, initiations, harvest celebration etc. Music play Spiritual and Religious roles such as Worship and Rituals, Healing and Trance as Rhythms and melodies can induce trance states, facilitating communication with the spiritual world. In day life and work, music equally play significant role as there are work songs for motivation during a task lime call -and -response, children Songs and Games, music is used for Artistic and Creative Expression such as Dance and Movement, music and dance are inseparable in African culture, with rhythms dictating movement and choreography. The economic impact of music in African culture cannot be overemphasized as the music industry is a significant economic sector, providing means of livelihoods for musicians, producers, and other professionals. Cultural Export, African music has a global influence, impacting genres like jazz, blues, reggae, and hip-hop. International recognition of African artists contributes to cultural pride and economic opportunities. In conclusion, music in African culture id a vital force that permeates all aspects of life, from social interaction to spiritual practices. It is a powerful tool for communication, cultural expression, and community cohesion.

Impact of Digital Technology on Music

Digital technology has transformed the music industry globally, offering new ways to produce, share, and experience music (Watkins, 2018). Digital technology has profoundly transformed the music industry and how music is created, distributed, and consumed. Here are some key impacts: Creation and Production: Accessibility of Tools: Digital audio workstations (DAWs) like Ableton Live, FL Studio, and Logic Pro have democratized music production, allowing anyone with a computer to create music. Virtual instruments and plugins provide a vast array of sounds and effects, expanding creative possibilities. Collaboration: Musicians can collaborate remotely using platforms like Splice, Soundtrap, and cloud-based DAWs, enabling global partnerships. Real-time collaboration tools allow multiple artists to work on the same project simultaneously from different locations. Sampling and Remixing: Digital technology makes it easier to sample, remix, and mash up tracks, leading to new genres and styles. The use of loops and samples has become a staple in modern music production. Distribution: Streaming Services: Platforms like Spotify, Apple Music, and YouTube have revolutionized how music is distributed and consumed, making it instantly accessible worldwide. Streaming has become the primary revenue source for many artists, though it has also sparked debates about fair compensation. Digital Downloads: Online stores like iTunes and Bandcamp provide a platform for artists to sell their music directly to fans. Digital distribution services like DistroKid and TuneCore help independent artists get their music on major streaming platforms. Social Media and Marketing: Artists use social media platforms like Instagram, TikTok, and Twitter to promote their music, engage with fans, and build their brand. Viral trends on platforms like TikTok can catapult

songs to global fame in a short period. Consumption: Personalization and Discovery: Algorithms on streaming services recommend music based on user preferences, introducing listeners to new artists and genres. Playlists curated by both algorithms and human editors play a significant role in music discovery. Access and Convenience: Music can be accessed on-demand from virtually anywhere using smartphones, tablets, and smart speakers. Offline listening and personalized playlists enhance the user experience. Interactivity: Interactive music videos and virtual reality (VR) experiences offer new ways for fans to engage with music. Platforms like Twitch and YouTube Live allow artists to perform live for global audiences, interact with fans in real-time, and monetize their performances. Industry and Business Models: Independent Artists: Digital technology has lowered barriers to entry, enabling independent artists to produce, distribute, and promote their music without needing a traditional record label. Crowd funding platforms like Patreon and Kick starter allow artists to fund their projects directly through fan support. Data and Analytics: Artists and labels can track listening habits, demographic information, and geographical data to better understand their audience. This data-driven approach informs marketing strategies, tour planning, and fan engagement efforts. Revenue Streams: While streaming has changed revenue dynamics, artists have diversified their income through merchandise, live performances, and direct fan support. Licensing music for films, TV shows, video games, and commercials has become an important revenue source. Challenges and Considerations: Compensation and Rights: The shift to streaming has raised concerns about fair compensation for artists, with many earning fractions of a cent per stream. Issues around copyright infringement and intellectual property rights have become more complex in the digital age. Quality vs. Quantity: The ease of digital production and distribution has led to an overwhelming volume of music being released, making it harder for artists to stand out. The focus on single releases and playlist placements can sometimes impact the cohesion and quality of full albums. Digital Divide: Access to digital tools and platforms is not evenly distributed globally, potentially widening the gap between artists in different regions. In summary, digital technology has revolutionized the music industry by making creation and distribution more accessible, enabling new forms of engagement and interaction, and transforming business models. However, it has also introduced new challenges regarding artist compensation, copyright, and market saturation.

Future research should explore the long-term impact of digital technology on African music and investigate additional digital tools for preservation. Practical recommendations for digital integration include to develop digital archives and platforms dedicated to African music. Encourage collaborations between musicians and technologists. Implement ethical guidelines to prevent cultural appropriation.

On final thoughts, harmonizing African culture with digital technology requires a balanced approach that respects traditional values while embracing innovation. By leveraging digital tools thoughtfully, we can ensure the preservation and continued evolution of African musical heritage.

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