
A Review of The Natural and Cultural Effects of Landscape on Rural and Urban Settlements in Nigeria

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ABSTRACT

The interactions between Nigeria's natural and cultural landscapes are intricate and have profound impacts on both rural and urban settlements. This paper investigates how landforms such as mountains, rivers, forests, and deserts shape cultural identities, agricultural practices, and settlement patterns across the country. It highlights the critical need for integrating sustainable landscape management into urban planning, particularly in light of challenges posed by urbanization, environmental degradation, and climate change. By analyzing case studies from Nigeria's diverse ecological regions, ranging from the savanna grasslands to the tropical rainforests, the study underscores the importance of protecting both cultural heritage and biodiversity in the face of rapid development. The research also explores how landforms influence farming techniques, settlement design, and social structures, particularly in rural communities that rely heavily on the natural environment for their livelihoods. As Nigeria continues to urbanize, the loss of cultural and ecological assets becomes more pronounced, demanding a more thoughtful approach to urban expansion. The paper advocates for a holistic approach to landscape management that balances the need for urban growth with the preservation of natural and cultural resources, ensuring that both ecological sustainability and cultural identity are maintained. The findings provide a valuable perspective on how Nigeria can navigate its developmental challenges while fostering resilient communities that are in harmony with their surrounding landscapes.

Keywords: Natural Landscapes, Cultural Heritage, Urban Planning, Environmental Degradation, Sustainable Development.

Journal Reference Format:

Ajayi Adeola S., Morakinyo Abiodun A., Akeredolu Eunice A. & Alabi Oluwaseyi A.. (2025): A Review of The Natural and Cultural Effects of Landscape on Rural and Urban Settlements in Nigeria. *Journal of Behavioural Informatics, Digital Humanities and Development Rese* Vol. 11 No. 1. Pp 71-88 <https://www.isteams.net/behavioralinformaticsjournal>
[dx.doi.org/10.22624/AIMS/BHI/V11N1P5](https://doi.org/10.22624/AIMS/BHI/V11N1P5)

1. INTRODUCTION

Landscape represents the interaction between natural environments and human activities, forming a dynamic system that shapes both ecological and cultural elements (Pérez et al., 2017). It consists of two key components: the natural landscape, which includes physical geography, climate, and biodiversity (Turner et al., 2015; Bennett, 2010), and the cultural landscape, which reflects human influences such as architecture, infrastructure, and social traditions (Carlsson et al., 2016).

The interplay between these components influences settlement patterns, economic activities, and cultural identities. Nigeria, characterized by diverse ethnic groups and climatic zones, presents a compelling case for examining this relationship. Its landscapes significantly impact agricultural practices, settlement structures, and cultural traditions (Adeleke, 2018). Understanding these dynamics is crucial for addressing urbanization, environmental degradation, and climate change (Egunjobi & Ndubisi, 2019). The integration of natural elements into urban planning, as seen in cities like Lagos and Abuja, is essential for maintaining cultural heritage and ecological balance (Ogunba & Adeniyi, 2020). The effects of landscapes on rural and urban settlements in Nigeria is evident, particularly their interdependence and impact on community resilience. Quite a number of case studies exist that examine how natural landscapes influence cultural practices and how urbanization affects environmental sustainability.

The relationship between natural landscapes and cultural development shapes the identity and sustainability of Nigerian settlements. In rural areas, landscapes dictate agricultural practices and community structures (Adeyemi, 2019), while urbanization often disrupts environmental balance, leading to challenges such as pollution and loss of green spaces (Ogunba & Adeniyi, 2020). The increasing urban population necessitates policies that integrate green spaces and preserve cultural heritage for sustainable development (Egunjobi & Ndubisi, 2019). By analyzing case studies, this paper highlights the need for a balanced approach to landscape management, emphasizing environmental conservation alongside cultural preservation (Jumoke & Nneka, 2020).

This study investigates the relationship between natural and cultural landscapes in Nigeria and their influence on the development and sustainability of rural and urban settlements. It analyzes how natural landscapes influence settlement patterns, examines the role of cultural practices in shaping settlements and architecture, assesses challenges posed by urbanization, climate change, and environmental degradation, and proposes sustainable strategies for integrating natural and cultural landscape management in planning. The paper explores settlement dynamics across Nigeria's diverse geographical regions, including tropical rainforests, savannah grasslands, and urban centers such as Lagos and Abuja. It examines settlement patterns, agricultural practices, urbanization challenges, and the influence of policies on landscape-settlement interactions.

2. LITERATURE REVIEW

2.1 The Natural Landscape of Nigeria

Nigeria's diverse landscape includes mountains, forests, rivers, and deserts, each shaping the country's ecology and culture. The Jos Plateau, Apo Mountains, and Obudu Plateau influence agriculture, climate, and biodiversity. The Jos Plateau, with its high elevation and fertile soil, supports farming and mining activities (Okunrobo, 2017). The Obudu and Apo Mountains host unique ecosystems essential for environmental balance (Ogunleye & Adewale, 2020). Nigeria's forests include tropical rainforests, savanna woodlands, and mangrove ecosystems.

The southern rainforests, rich in biodiversity, are vital for climate regulation (Bassey, 2020). Mangrove forests in the Niger Delta protect coastal communities (Nwankwoala, 2012), while northern savanna woodlands support pastoral agriculture (Salako et al., 2020). The Niger and Benue Rivers sustain agriculture, fishing, and transportation. The Niger River, stretching over 4,000 km, is crucial for economic activities (Obi & Uche, 2018). The Benue River supports irrigation and biodiversity (Parker, 2019). Northern Nigeria includes semi-arid Sahel regions facing desertification. Communities use adaptive practices like rotational grazing to sustain livelihoods despite climate challenges (Adger et al., 2020; Garrity et al., 2010).

1.2 Climate Influence on Settlement Patterns

Nigeria's climate zones—tropical rainforest, savanna, and arid desert—affect settlement distribution and agriculture. Tropical Rainforest Climate is found in southern Nigeria and this region supports dense settlements due to fertile soils and abundant water, fostering urban centers like Port Harcourt (Bassey, 2020). Agriculture includes mixed cropping and plantation farming (Akinyemi & Adeyemo, 2021). The Savanna Climate dominates the central and northern Nigeria. The savanna supports dispersed settlements centered around agricultural hubs. Farming includes millet, sorghum, and groundnuts, while pastoralism remains vital (Olaniyan & Adeoti, 2018; Salako et al., 2020).

In northeastern Nigeria, having an arid desert climate, settlements are sparse, with communities relying on oases and underground water. Livelihoods focus on trade, livestock herding, and drought-resistant crops (Adger et al., 2020). Nigeria's climate and geography significantly shape settlement patterns and livelihoods. Recognizing these influences is crucial for sustainable planning and agricultural policies tailored to regional needs.

2.3 Natural Resources and Community Growth in Nigeria

Nigeria's natural resources—water bodies, minerals, and agricultural land—play a crucial role in shaping settlement patterns, economic activities, and community development.

2.3.1 Water Bodies

Major rivers like the Niger and Benue, along with Lake Chad, support settlement, agriculture, and commerce. Settlement Locations: Communities form along riverbanks due to easy access to freshwater, facilitating urban growth in cities like Port Harcourt and Lokoja (Kankara et al., 2019). Agricultural Practices: Rivers enable irrigation, supporting crop cultivation and fishing industries, particularly in semi-arid areas (Nwankwoala, 2012). Commercial Activities: Waterways serve as transport routes, enhancing trade and sustaining fisheries, which contribute to local economies (Ngara et al., 2020).

2.3.2 Minerals

Nigeria's mineral wealth, including coal, tin, gold, limestone, and crude oil, drives economic expansion and settlement growth. Mining Towns: Areas rich in minerals, such as Jos (tin mining), attract populations seeking employment, though mining has caused environmental concerns (Olayemi et al., 2017).

Economic Growth: The Niger Delta's oil industry has spurred investments and migration, but it has also led to environmental damage and conflicts (Akinola, 2020). Infrastructure Development: Resource extraction encourages infrastructure growth, benefiting other sectors like trade and agriculture (Adetunji et al., 2019).

2.3.3 Agricultural Land

Nigeria possesses vast agricultural land, with favorable climatic conditions for farming in many regions. The availability and quality of agricultural land significantly influence settlement patterns and community dynamics. Influence on Settlement Patterns: Fertile areas, particularly in the Middle Belt and southwestern regions, attract farmers and agricultural workers, leading to dense rural settlements. This agricultural focus influences social structures and community organization, often centered around farming activities (Adesina et al., 2019). Influence on Economic Activities: Agricultural production not only supports direct livelihoods but also stimulates the growth of related sectors such as agro-processing, trade, and services. Communities involved in cash crop farming, such as cocoa and palm oil production, often see enhanced economic prosperity and infrastructure development (Bassey, 2020).

Food Security: The cultivation of staple crops such as rice, maize, and cassava is essential for food security. Communities are established around agricultural practices that promote self-sufficiency and economic resilience (Olufemi et al., 2021). The availability of natural resources in Nigeria—water bodies, minerals, and agricultural land—plays a pivotal role in shaping community establishment and growth. While these resources offer significant economic opportunities and socio-cultural development, they also pose challenges, including environmental degradation and conflicts over resource management. Sustainable practices and policies are essential for ensuring that the benefits of these resources are maximized while mitigating negative impacts on communities and their environments.

2.4 Cultural Influences on Settlement Patterns in Nigeria

Nigeria's settlement patterns are shaped by its cultural diversity, with over 250 ethnic groups influencing the formation, organization, and evolution of communities. Ethnic Diversity and Settlement Patterns: Communities often form based on ethnic clusters and affiliations, preserving cultural traditions and fostering social cohesion (Ajayi & Oduwaye, 2019). In terms of architectural styles the Yoruba favor communal compounds, while Igbo settlements are more dispersed, reflecting distinct social structures (Duru, 2020). Cultural Practices and Resource Utilization: The agricultural practices of the Hausa communities in northern Nigeria adopt seasonal settlement shifts for farming and grazing (Ufoaroh, 2020). Agricultural-linked rituals and festivals influence settlement layouts, promoting communal gathering spaces (Obi, 2021). Social Structures and Land Tenure Systems: In terms of settlement density, Yoruba communities, with communal land ownership, have densely populated settlements, while Igbo regions, with individual land tenure, tend to be more dispersed (Adeyemi, 2022; Okeke, 2019).

2.5 Religious Influences on Settlement Patterns

Islamic practices amongst the Hausa and Fulani drive specific settlement styles, such as the establishment of ranches and towns that cater to pastoralist lifestyles. Cities like Sokoto and Kano have developed structures that accommodate both religious and commercial activities (Alabi & Adesanya, 2018). Christian communities, particularly in the southern regions, often establish settlements that prioritize schools and churches as central features, reflecting their cultural emphasis on education and religious practice (Nwosu, 2020).

2.6 Urbanization and Cultural Integration

Only the Yoruba, Hausa, Edo, Kanuri, and coastal peoples were town dwellers before the 20th century. The Yoruba long have been the most urbanized people in tropical Africa. Their towns, most of them several hundred years old, were originally administrative and trading centres, a function many have retained. About half the Yoruba now live in towns of more than 5,000, notably Ibadan, Ogbomosho, Abeokuta, Ile-Ife, and Oyo (Britannica, 2024). Urban areas, such as Lagos and Abuja, exhibit a melting pot of cultures that influence settlement styles. New neighborhoods reflect diverse cultural identities, while informal settlements often arise where rural migrants settle, introducing both traditional and modern architectural elements (Ogunleye et al., 2021). Gentrification in urban centers can also displace traditional communities, prompting new cultural dynamics and settlement configurations as different ethnic groups strive to maintain their identity amidst the changes (Fasanyi, 2022).

2.7 Architecture and Urban Planning in Nigeria: Cultural Values and Manifestations

Nigeria's architecture and urban planning reflect a rich tapestry of cultural values shaped by its diverse ethnic groups, historical contexts, and evolving socio-economic conditions. Landscape serves as a tool for maintaining law and order in urban areas (Oladunmoye, 2024). The built environment, encompassing both rural and urban areas, serves as a canvas that illustrates the cultural identity, social structures, and values of its communities.

2.7.1. Traditional Architecture in Rural Areas

Cultural values are prominently expressed through traditional architecture in Nigeria's rural settings, where building styles often reflect local materials, environmental conditions, and social practices. Traditional homes are commonly constructed with indigenous materials and techniques materials such as mud, thatch, and wood, which are readily available and suited to local climates. For example, the mud-brick houses of the Hausa in northern Nigeria are designed to withstand extreme heat and heavy rains (Deng, 2019). The Igbo people utilize mud and palm fronds for roofing, often creating compound structures that accommodate extended families, illustrating values of kinship and community cohesion (Okeke, 2020).

Also, looking into spatial organization, rural settlements often feature compounds that prioritize communal living. In Yoruba culture, the design reflects a strong emphasis on family and communal activities, with multiple rooms arranged around a shared courtyard (Akinola, 2021). The spatial distribution in these communities frequently accommodates agricultural practices, showcasing the interconnectedness of domestic and agricultural life (Alabi, 2020).

2.7.2 Urban Architecture and Cultural Identity

In urban areas, architecture is a dynamic expression of cultural values, influenced by globalization, modernization, and local traditions. Urban architecture often integrates traditional motifs and symbolism that resonate with cultural identity. For instance, structures like the Lekki-Ikoyi Link Bridge in Lagos not only serve a functional purpose but also symbolize progress and innovation while reflecting modern aesthetics (Fadeyi, 2021). Public buildings, such as the Nigerian National Mosque and the National Cathedral, incorporate cultural and religious symbolism, representing the diversity and values of the Nigerian populace (Ngobua, 2022).

Urban planning increasingly incorporates spaces for cultural events and festivals, recognizing the importance of cultural practices in community life. Areas designated for markets, parks, and community centers foster cultural exchanges and social interactions, reflecting the Nigerian ethos of hospitality and togetherness (Adeleke, 2020). The integration of traditional markets into urban planning—such as the Balogun Market in Lagos—exhibits vibrant cultural practices while serving as economic hubs that support local commerce (Akanbi, 2021).

2.7.3 Modern Infrastructure and Cultural Integration

As Nigeria continues to develop, modern infrastructure projects present opportunities to harmonize contemporary needs with cultural values. Infrastructure development, such as roads and public transport systems, often considers traditional settlement patterns and community needs. The construction of roads linking rural communities to urban centers facilitates market access while respecting local land use patterns (Bello, 2020). The design of public transport systems can reflect cultural preferences, as seen in the Lagos Bus Rapid Transit system, which incorporates community input to ensure it meets the needs of diverse populations (Olawale, 2021).

Current urban planning practices increasingly emphasize sustainability, where cultural values of harmony with nature are essential. Initiatives promoting green spaces in urban design reflect traditional beliefs that honor environmental stewardship (Umar, 2022). Preservation of cultural heritage sites within urban areas, such as the Osun-Osogbo Sacred Grove, exemplifies the integration of culture into modern urban planning, ensuring that development respects and celebrates historical significance (Afolabi, 2023).

2.7.4 Challenges and Opportunities

Despite the rich cultural influences in Nigeria's architecture and urban planning, challenges persist, including rapid urbanization, population growth, and resource constraints. Addressing these challenges requires a balanced approach that honors cultural heritage while embracing innovation. Engaging local communities in the planning process can lead to sustainable solutions that reflect local cultural practices and aspirations. Participatory planning fosters ownership and ensures that developments resonate with cultural values (Ogunleye, 2021). Effective policies that prioritize cultural considerations in urban and rural planning are essential. Implementing frameworks that support the preservation of cultural sites and traditions while facilitating modern infrastructure development is crucial for sustainable growth (Annan, 2022).

In conclusion, architecture and urban planning in Nigeria are deeply intertwined with cultural values, shaping how communities design their environments in both rural and urban contexts. By incorporating traditional practices, symbolic meanings, and community needs into the built environment, Nigeria can create spaces that honor its rich cultural heritage while responding to contemporary challenges.

2.8 Traditional Knowledge and Land Use in Nigeria: Impact on Rural Settlements

Indigenous knowledge refers to the cultural practices, beliefs, and land-use strategies developed by local communities over generations. It encompasses agriculture, resource management, and settlement organization, varying across Nigeria's diverse ethnic groups. Indigenous knowledge systems in Nigeria have shaped land use practices for generations, influencing agriculture, resource management, and rural settlement structures. Despite modernization and climate change challenges, these traditional methods remain vital for sustainable rural development.

Indigenous Agricultural Practices are being adopted, including traditional farming techniques such as crop rotation, intercropping, and organic fertilization promote soil health and biodiversity (Akinwumi, 2020). The Yoruba practice mixed cropping, enhancing yield and soil fertility (Adeyemo, 2021). Indigenous farmers also cultivate drought-resistant crops like cocoyam and bitter leaf, reducing reliance on chemical inputs and ensuring food security (Bako, 2022). Techniques such as contour farming and stone walls, used by the Tiv, help prevent soil erosion and conserve water (Ige, 2023) while the Fulani employ rotational grazing to prevent overgrazing, while traditional fishing practices along the Niger River maintain ecological balance (Dahiru, 2020; Oni, 2022).

Traditional settlements reflect social structures, with compounds organized around courtyards to reinforce community ties (Okeke, 2020). Communal land tenure promotes equitable resource distribution and in an attempt to adapt to climate change, indigenous farming and land-use practices are used to mitigate climate-related risks by sustaining biodiversity and supporting community resilience (Okwudili, 2021). Challenges to traditional knowledge systems include modernization and land fragmentation wherein urbanization and industrial farming disrupt traditional land-use methods, reducing biodiversity and threatening food security (Fasanya, 2022). Erratic weather patterns also challenge traditional agricultural techniques, requiring adaptation beyond existing indigenous practices (Dahiru, 2020).

Opportunities for preservation and integration include recognition and policy support by integrating traditional land management into national policies can enhance sustainable rural development (Ajibola, 2021). While partnerships between indigenous communities and scientific research can promote sustainable land-use strategies (Olowolafe, 2022). Indigenous knowledge remains crucial for sustainable land use and rural resilience in Nigeria. While modernization and climate change pose threats, recognizing and integrating these traditional practices into policy and development strategies can foster long-term sustainability.

2.9 Interaction of Natural and Cultural Landscapes in Nigeria

The interaction between natural landscapes and cultural practices shapes human behavior, values, and societal structures. In Nigeria, the relationship between the environment and culture is evident in various traditions, beliefs, and community organization (Ajayi et al., 2024). **Sacred Sites and Spiritual Connections:** Many Nigerian communities consider rivers sacred. The Osun River, home to the Osun-Osogbo Sacred Grove, exemplifies the spiritual significance of water bodies. The UNESCO World Heritage Site fosters conservation efforts through cultural reverence (Irele et al., 2022). Sacred shrines and rituals often take place in mountains and hills, such as Olumo Rock in Abeokuta. These landmarks reinforce cultural identities and foster communal bonds (Ogunleye, 2021). **Agricultural Practices Tied to Soil Types:** The diverse Nigerian landscape influences farming. Fertile alluvial soils in the Niger Delta support rice cultivation, while northern sandy soils favor drought-resistant crops like millet (Obi, 2020).

Cultural Significance of Crops: Ethnic groups have culturally significant crops; for example, the Yoruba regard yam as a prosperity symbol, celebrated in festivals. The Igbo practice shifting cultivation to maintain soil fertility and sustain their cultural heritage (Afolabi, 2021; Nwankwo, 2022). **Traditional Resource Management:** Fishing communities rely on ecological knowledge to navigate tides and seasons. In the Niger Delta, traditional fishing techniques align with environmental conditions, strengthening cultural identity through communal fish festivals (Ibidun, 2023). Forests serve as both economic and spiritual resources. Indigenous knowledge ensures sustainable management of timber and medicinal plants, reinforcing environmental stewardship (Ewueh et al., 2022).

The challenges and opportunities in cultural-natural interactions include urbanization, deforestation, and climate change which threaten cultural landscapes, disrupting spiritual sites and traditional practices (Chiekwe, 2023). Combining indigenous knowledge with scientific conservation methods can protect sacred sites. Educational initiatives can further encourage sustainable practices (Adedeji et al., 2022). Erosion and land degradation is one of the challenges faced, as soil erosion impacts agriculture and leads to the abandonment of traditional practices. Additionally, sacred riverbanks eroded by climate change threaten cultural rituals (Ogunleye, 2021; Afolabi, 2021).

Logging and urban expansion also disrupt ecosystems, endangering traditional healing practices and cultural rituals (Nwankwo, 2022; Ewueh et al., 2022) while rapid urban growth encroaches on traditional settlements, forcing cultural adaptation in urban environments while straining natural resources (Chiekwe, 2023; Okwudili, 2021). Changing weather patterns disrupt farming calendars and endanger coastal communities, affecting food security and traditional livelihoods (Ibidun, 2023; Obi, 2020). Economic opportunities drive migration, bringing rural traditions into urban spaces. This results in cultural exchange and hybrid identities (Ajayi et al., 2024; Afolabi, 2021). Cities expand to accommodate migrants, incorporating features like communal gardens. Markets sustain rural-urban economic ties, influencing both urban planning and culture (Ogunleye, 2021; Nwankwo, 2022). While urbanization risks cultural erosion, community associations help preserve traditions through festivals and social events (Ibidun, 2023; Ewueh et al., 2022).

The interdependence of Nigeria's natural features and cultural practices highlights a dynamic relationship. While sacred sites and agriculture illustrate this interaction, challenges such as climate change and urbanization threaten cultural continuity. Sustainable land management and community-led conservation efforts are vital to preserving cultural heritage amidst environmental changes.

Case Studies of Rural Settlements in Nigeria

Farming Villages: The Yoruba people in Southwestern Nigeria engage in subsistence farming due to the region's fertile volcanic soil. Their agricultural practices, including crop rotation and agroforestry, maintain soil fertility despite land degradation challenges. Social ties within these communities are reinforced through communal farming (Olaoye & Ojebiyi, 2018). In Northern Nigeria, the Hausa-Fulani pastoralists rely on savannah grasslands for livestock rearing. Seasonal migrations and agro-pastoralism are crucial strategies to cope with land degradation and climate change (Batterbury & Warren, 2001).

Fishing Communities: Fishing communities in the Niger Delta, such as Ibeno and Onna, depend on mangroves and estuaries for artisanal fisheries. Climate change and pollution have reduced fish catches, prompting adaptation in fishing techniques (Adeoti et al., 2018). In Nasarawa State, inland fishing communities around Lake Feferuwa face overfishing and pollution challenges, leading to diversification into agriculture and small-scale trading as a resilience strategy (Kigbu et al., 2014).

3. INFLUENCE OF TOPOGRAPHICAL FEATURES ON RURAL COMMUNITIES IN NIGERIA

Topographical features significantly influence the lifestyle of rural communities in Nigeria by shaping agricultural practices, settlement patterns, and economic activities. The diverse landscapes, from mountains and valleys to rivers and plains, determine not only the types of crops that can be cultivated but also the accessibility of these communities to markets and resources. **Agricultural Practices:** Flat plains and river valleys, like those in Benue State, support high agricultural productivity due to rich soils and water availability for irrigation (Jato, 2022). In northern Nigeria, hilly terrains lead to manual farming techniques, including terrace farming, to manage soil erosion (GeoPard Agriculture, 2024).

Settlement Patterns: Topography influences settlement development, with flatter areas fostering better infrastructure and higher population densities. Conversely, rugged terrains limit accessibility and hinder development (Britannica, 2024). **Economic Activities:** Coastal and savannah regions depend on topographical features for fishing and livestock grazing. For example, fishing communities in the Niger Delta rely on mangroves, while pastoralists in northern Nigeria follow grazing patterns dictated by grassland availability (Batterbury & Warren, 2001).

3.1 Impact of Land Degradation on Rural Economies in Nigeria

Land degradation reduces agricultural output due to soil erosion and nutrient depletion, especially in Northern Nigeria, exacerbating food insecurity and poverty (Pate & Dauda, 2013). As agricultural productivity decreases, food prices rise, leading to malnutrition and economic instability, especially in pastoral communities where conflicts over resources are common (Arowolo et al., 2018). Land degradation forces farmers to abandon their lands, disrupting local economies. This situation is exacerbated by desertification in the north (UNCCD, 2016). Land degradation leads to rural-to-urban migration, contributing to urban overcrowding and resource strain (Arowolo & Deng, 2018). Competition for diminishing resources between farmers and herders intensifies due to land degradation, further destabilizing rural economies (Pate & Dauda, 2013).

3.2 Influence of Topographical Features on Urban Communities in Nigeria

Water Management Challenges: Lagos faces water management issues due to its coastal location and poor infrastructure, leading to water shortages and flooding (Chiori, 2018; Oluwafemi, 2021). Abuja, designed with water infrastructure in mind, faces challenges due to rapid urbanization and topographical features like hills that complicate water distribution (Owoade et al., 2018). **Housing and Slum Development:** The geography of Lagos contributes to the proliferation of informal settlements in flood-prone areas, with ongoing efforts to improve sanitation through initiatives like the Lagos Urban WASH Activity (Global Waters, 2024). Abuja's planned nature has resulted in socio-economic segregation, with informal settlements on the outskirts housing low-income groups (Owoade et al., 2018).

3.3 Cultural Influences on Urban Development

Lagos showcases a blend of architectural styles influenced by its diverse cultural heritage. The city features a mix of traditional Yoruba architecture alongside colonial-era buildings and modern skyscrapers (Wikipedia, 2024). This architectural diversity reflects the cultural identity of its inhabitants and affects urban aesthetics and community spaces. Cultural festivals and communal activities are often centered around public spaces that have been increasingly neglected due to urban pressures (Ware, 2024). Efforts are being made to revitalize these spaces as part of broader urban development strategies. In Abuja, the initial planning included provisions for public parks and open spaces intended for community engagement and cultural expression. However, as development pressures mount, these spaces are increasingly encroached upon (Ware, 2024). The preservation of cultural sites is essential for maintaining community identity amidst rapid urbanization.

The landscapes of Lagos and Abuja significantly shape their urban development trajectories through influences on water management, housing patterns, and cultural expressions. While Lagos grapples with severe water management issues exacerbated by informal settlements, Abuja faces challenges related to spatial segregation despite its planned origins. Both cities illustrate the complex interplay between geography and culture in shaping urban experiences in Nigeria.

3.4 Impact of Government Policies on Landscape and Settlement Dynamics

Urban Landscape Policies: The centralized land control under the Land Use Act of 1978 has led to bureaucratic inefficiencies and the growth of informal settlements due to complicated land acquisition processes (Ogunleye, 2005). Although aimed at structured urban planning, the Urban and Regional Planning Act of 1992 has been hindered by overlapping jurisdictions and insufficient resources (Adeniyi, 2013). The National Urban Development Policy of 2012 (NUDP) targets focused development interventions, but implementation challenges and political factors have slowed progress (Federal Ministry of Housing and Urban Development, 2012). Settlement Dynamics and Government Policies: Government policies have contributed to the development of high-income areas at the expense of informal settlements, leading to spatial segregation and rapid peri-urban expansion (UN-Habitat, 2010). Government initiatives like public housing schemes and site and services programs have struggled to meet the demand, leading to continued informal settlement growth (Agboola, 2002).

4. CONCLUSION

The interrelationship between natural and cultural landscapes plays a pivotal role in shaping the development, identity, and sustainability of rural and urban settlements in Nigeria. Natural landscapes, including rivers, mountains, forests, and soil types, provide the essential resources and ecological systems necessary for human habitation. These natural features significantly influence settlement patterns, agricultural practices, and economic activities, particularly in rural communities where livelihoods are often directly tied to environmental conditions. At the same time, cultural landscapes—comprising traditions, social structures, and heritage practices—reflect the human imprint on the environment, showcasing the adaptability and creativity of communities as they interact with their surroundings.

In rural Nigeria, the harmonious integration of cultural practices with natural landscapes has fostered resilience and continuity. Agrarian and pastoral communities, such as the Yoruba, Hausa-Fulani, and fishing settlements in the Niger Delta, demonstrate how traditional knowledge and practices are aligned with environmental conditions to sustain livelihoods. However, these communities face increasing pressures from environmental degradation, resource depletion, and climate change, which threaten the delicate balance between nature and culture. Challenges such as deforestation, soil erosion, and desertification not only impact the natural environment but also erode cultural practices and identities that are deeply tied to the land.

Urban settlements, on the other hand, exemplify a more complex and often strained relationship between natural and cultural landscapes. Cities like Lagos and Abuja, characterized by rapid urbanization and population growth, highlight the competing demands of economic development, cultural preservation, and environmental sustainability. Urbanization has led to the proliferation of informal settlements, loss of green spaces, and increased vulnerability to environmental hazards such as flooding. Furthermore, the erosion of cultural identity in urban areas, driven by socio-economic pressures and globalization, underscores the need for deliberate efforts to integrate cultural values into urban planning and development.

The dual challenges of environmental degradation and urbanization require innovative and integrative solutions. Policymakers, urban planners, and local communities must adopt a holistic approach that recognizes the interdependence of natural and cultural landscapes. Strategies such as sustainable land management, conservation of biodiversity, and the incorporation of cultural heritage into urban and regional planning are essential for addressing these challenges. For instance, the preservation of sacred sites, traditional agricultural practices, and indigenous knowledge systems can serve as vital tools for fostering community resilience and environmental stewardship.

In addition, there is a need for policies that bridge the gap between rural and urban landscapes, ensuring equitable resource distribution and inclusive development. Community participation should be prioritized in decision-making processes to ensure that both rural and urban voices are heard, particularly in the implementation of policies aimed at landscape management and heritage preservation.

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