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World-Bank-Nigeria Collaboration on Tertiary Education Development in Nigeria: A Review Paper

Niyi Jacob Ogunode. PhD
Department of Education, University of Abuja, Nigeria

Ajape Temitope Solomon. PhD
Mewar International University, Nigeria

Jacob Angel Emobweseh
Mewar International University, Nigeria

A B S T R A C T
The study explored the World Bank–Nigeria collaboration on tertiary education development in Nigeria. The study showed that World Bank–Nigeria collaboration on tertiary education development in Nigeria have led to infrastructure and quality improvement, research and innovation development, capacity building and institutional governance, skills development and employability and equity, access, and inclusion in Nigeria' tertiary institutions. Based on the findings, the study recommends that the Federal Government of Nigeria should ensure that all World Bank-supported tertiary education projects are effectively aligned with national education policies such as the National Policy on Education and the Ministerial Strategic Plan. This will ensure that international interventions complement local priorities rather than create parallel systems. Establishing a national coordination framework for managing external assistance in tertiary education would also help synchronize donor-funded programs with domestic initiatives, ensuring continuity and sustainability beyond project cycles. To maximize the impact of World Bank funding, Nigerian tertiary institutions must strengthen their internal governance and management systems. This includes improving transparency in resource allocation, adopting performance-based funding mechanisms, and promoting accountability among administrators. The World Bank–Nigeria partnership should prioritize increased investment in research and innovation as catalysts for national development. This includes expanding initiatives such as the Africa Centres of Excellence (ACE) to more universities, encouraging interdisciplinary research, and facilitating stronger linkages between academia and industry. By fostering university–industry collaboration, Nigerian institutions can produce research that directly addresses national challenges in sectors such as agriculture, energy, technology, and public health. To build a globally competitive tertiary education system, Nigeria should invest more in digital learning and the integration of information and communication technologies (ICTs) into teaching, research, and administration.

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The World Bank can support initiatives that enhance digital infrastructure, provide e-learning platforms, and train

educators in the use of modern digital tools. Expanding access to online learning resources will improve inclusiveness and allow institutions to reach students in remote areas. Digitalization also enhances transparency in academic and administrative processes, helping institutions adopt global best practices in higher education delivery.

1.0 Introduction

The World Bank–Nigeria collaboration on tertiary education development is a strategic partnership aimed at strengthening Nigeria's higher education system to drive national socioeconomic transformation. Recognizing tertiary education as a critical engine for human capital formation, research and innovation, and inclusive economic growth, the partnership focuses on improving access, relevance, quality, and governance across universities, polytechnics and colleges of education. By blending international financing, technical assistance, policy advice and capacity-building interventions, the World Bank and Nigerian stakeholders work together to address long-standing challenges such as inadequate infrastructure, uneven learning outcomes, weak institutional management, and limited links between higher education and labour-market needs [1].

This collaboration typically targets multiple, mutually reinforcing areas: expanding equitable access (especially for under-served groups and regions); upgrading teaching and learning facilities and digital infrastructure; strengthening research capacity and industry linkages; reforming financing and accountability systems; and building institutional leadership and regulatory frameworks. When effectively designed and implemented, World Bank-supported programs aim not only to raise the quantity and quality of graduates but also to make tertiary institutions more responsive to Nigeria's development priorities — from job creation and SMEs to health, agriculture and technology. In short, the partnership seeks to transform higher education into a more efficient, equitable and innovation-driven sector that accelerates Nigeria's broader development objectives [2].

2.0 Review of Literature

2.1 Concept of World Bank

In the field of international development, the concept of a world bank is essential. The world-bank is a global financial institution that provides loans and grants to countries for the purpose of promoting economic development and reducing poverty. It was established in 1944 and is made up of two main groups: the International Development Association (IDA) and the International Bank for Reconstruction and Development (IBRD). Through a variety of initiatives and initiatives, the World Bank significantly contributes to the stability and economic growth of nations that are developing.

The concept of "world-bank" refers to the international financial institution that provides loans and financial assistance to developing countries for various developmental projects. It aims to promote economic growth, reduce poverty, and improve living conditions in these countries. Established in 1944, the World Bank has played a crucial role in providing financial support to many countries in need. Its main focus areas include education, health, agriculture, infrastructure, and environmental sustainability. Through its various programs and initiatives, the World Bank has helped millions of people across the globe and continues to be a major player in the global economy[3].

One of the main functions of the world-bank is to provide financing to developing countries for infrastructure projects such as building roads, bridges, and energy systems. This is done through loans, grants, and guarantees, which are tailored to the specific needs of each country. The world-bank also supports policy reforms and technical assistance to help countries improve their economic and social conditions.

In addition to providing financial assistance, the world-bank also conducts research and analysis on various global issues such as poverty, climate change, and inequality. This research helps to inform its policies and programs, and also serves as a valuable resource for policymakers and academics [4].

The role of international organizations is to promoting economic development and reducing poverty. Its impact can be seen in the numerous successful projects and initiatives it has supported around the world.

As the world continues to face challenges in the global economy, the world-bank will continue to play a significant role in addressing these issues and promoting sustainable development.

2.2 Concept of Tertiary Education

Tertiary education is central to the socio-economic development of any nation, serving as the engine for human capital development, knowledge creation, technological innovation, and leadership training. In Nigeria, universities, polytechnics, and colleges of education play a pivotal role in producing the skilled workforce needed to drive national growth. However, the sector has long been constrained by underfunding, inadequate infrastructure, poor staff welfare, and limited research investment. Tertiary education, also known as higher education, refers to educational programs offered by universities, colleges, and other institutions beyond secondary education. It encompasses undergraduate and postgraduate studies, providing students with advanced knowledge, skills, and qualifications in their chosen field of study. Tertiary education, also called post-secondary education, is any level of education pursued beyond high school, including undergraduate and graduate credentials. These credentials encompass certificates, diplomas or academic degrees [5].

Ogunode listed the following as the objectives of tertiary education: to provide opportunities for higher education via effective teaching, research, and community service; to develop and produce students with specialized knowledge and skills for solving personal and national problems; to prepare students for the national workforce and to contribute to societal and community development; to provide academic courses in a variety of disciplines; to provide excellent instruction in the field of learning; and to conduct research to generate new knowledge for national development and to solve complex problems [6].

2.3 Concept of World-Bank-Nigeria Collaboration

The collaboration between the World Bank and the Government of Nigeria on tertiary education development is a multifaceted partnership that aims to strengthen the country's higher education system through financial assistance, institutional reforms, research development, capacity building, and policy support. This partnership is built on the recognition that tertiary education plays a pivotal role in fostering economic growth, innovation, and national development. Over the decades, Nigeria has faced numerous challenges in its tertiary education system — including poor infrastructure, inadequate funding, outdated curricula, and limited research capacity — prompting the need for international cooperation to drive reform and modernization.

The primary objective of the World Bank–Nigeria collaboration is to enhance the quality, access, and relevance of tertiary education to meet the country's human capital and development needs. The World Bank provides both financial and technical support to help Nigerian institutions become globally competitive and responsive to the labour market [7]. The collaboration also seeks to ensure accountability, improve institutional management, and promote inclusion by providing opportunities for disadvantaged groups such as women and students from rural communities. The partnership aligns with the World Bank's broader goal of reducing poverty and promoting shared prosperity through education and capacity development. It also supports Nigeria's national education policies, including the National Policy on Education and the Education for Change: Ministerial Strategic Plan, which emphasize higher education as a driver of innovation, research, and sustainable development.

3.0 Method

The World Bank-Nigeria collaboration on the advancement of higher learning in Nigeria. The aforementioned paper used an approach that was based on a literature review. The approach allows it possible to gather and examine pertinent prior studies from an array of internet sources. The researcher utilized online resources for collecting secondary data in order to generate knowledge on this topic among 2015 or 2025 [8]. The qualitative narrative design method was employed in the position paper. For the purpose of to collect previous research and examine the World Bank-Nigeria collaboration on the development of tertiary education in Nigeria, the researcher has visited a variety of internet pages. The prior findings are looked at critically and presented in different categories, including the World Bank-Nigeria collaboration on improving the state of tertiary education in Nigeria.

Inclusion and exclusion criteria

Inclusion

This output of the literatures on the World Bank–Nigeria collaboration on tertiary education development in Nigeria presents an in-depth study and result that can infer conclusion on the topic. The study includes: online publication; conference paper, journals sorted from reputable international journals such as CEON, Elsevier, Hindawi, JSTOR, IEEE, Learn Techlib, SAGE, Nebraska and Springer.

Exclusion

Also, the literature review excludes information from edited books, preprints, monographs, information below 2015 and book chapters.

4.0 Result and Discussion on World Bank–Nigeria Collaboration on Tertiary Education Development in Nigeria

Infrastructure and Quality Improvement

The reconstruction and modernization of digital and physical infrastructure in colleges of education, universities, and polytechnics got substantial support to the World Bank. Some of these investments are the construction of ICT facilities, centers for research, libraries, and laboratories. Modern teaching techniques are backed by improved infrastructure, which additionally improves the norm of learning environments. The infrastructure and quality of education in Nigerian tertiary institutions have risen significantly as a result of the World Bank and Nigeria collaboration [9]. By doing the building of new facilities and the makeover of existing ones, this partnership has provided faculty and students access to modern, well-equipped classrooms. Additionally, the collaboration has also focused on improving the quality of education in Nigerian tertiary institutions by implementing new teaching and learning methods, developing curriculum, and providing training opportunities for educators. As a result, Nigerian tertiary institutions have seen a significant increase in student enrollment, improved student performance, and increased research outputs [10]. This collaboration between the World Bank and Nigeria has greatly contributed to the overall development of the country's tertiary education sector and has laid a strong foundation for future growth and progress. Another major focus of the collaboration as noted by Mike is infrastructure development. The World Bank has invested in modernizing laboratories, lecture halls, libraries, and digital learning facilities to enhance the teaching and learning environment. It also promotes digital transformation in education, helping Nigerian institutions integrate information and communication technology (ICT) into administrative processes, research, and distance learning. These interventions are particularly relevant in expanding access to quality higher education and in building resilience against disruptions such as the COVID-19 pandemic [11].

Research and Innovation Development

The World Bank helps Nigerian universities to establish specialized research institutions that address challenges associated with regional development through initiatives like the Africa Centres of Excellence (ACE) project. In essential fields such as health, engineering, agriculture, and environmental sciences, these institutions promote graduate schooling, international collaboration, and industry partnerships. Notable winners include Benue State University's ACE for Food Technology and Research (CEFTER) and the University of Port Harcourt's ACE for Public Health and Toxicological Research (ACE-PUTOR). Research and innovation development in Nigerian tertiary institutions has been significantly impacted by the World Bank and Nigeria collaboration on tertiary education development [12]. Many initiatives and initiatives are being launched as a result of this partnership, enhancing the level and practicality of research that is carried through these institutions.

Through this collaboration, Nigerian tertiary institutions have been able to access funding, resources, and expertise from the World Bank, leading to the establishment of state-of-the-art research facilities, specialized research centers, and the recruitment of highly qualified researchers and professors. Moreover, the World Bank-Nigeria collaboration has also focused on capacity building and training opportunities for faculty and students, promoting a culture of research and innovation within these institutions. Through workshops, seminars, and conferences, faculty and students have been equipped

with the necessary skills and knowledge to conduct high-quality research and develop innovative solutions to local and global challenges. In addition, Ogunode, and Offia the collaboration has also resulted in the establishment of research partnerships between Nigerian tertiary institutions and international universities and organizations, providing access to a global network of experts and resources [13]. This has not only enhanced the quality of research being conducted, but also increased the visibility and impact of Nigerian tertiary institutions on the international stage. Furthermore, the World Bank-Nigeria collaboration has played a crucial role in promoting a research-driven economy in Nigeria. The focus on research and innovation according to .Ogunode, Ayeni and Ogwuche has led to the development of new technologies, products, and services that have contributed to the economic growth of the country. The dissemination of research findings through publications and conferences has helped to showcase the potential of Nigerian tertiary institutions and attract foreign investments and collaborations.

Capacity Building and Institutional Governance

The World Bank provides assistance in improving tertiary institutions' managerial skills, accountability systems, and governance structures. It encourages financial management, management information systems, and performance-based funding arrangements that promote measurable institutional outcomes. For example, the objective of the STEP-B (Science and Technology Education Post-Basic) project had been to improve the management of educational institutions across Nigeria and build up the capacity of teachers and researchers. Major progress has been achieved in improving institutional governance and building capacity in Nigerian tertiary institutions as a consequence of the World Bank and Nigeria collaboration on tertiary education development [14]. As a result of this collaboration, many initiatives and initiatives were set into effect with the goal of enhancing standards of learning and strengthening these institutions' overall operations. One of the key outcomes of this collaboration is the establishment of training and development programs for faculty and staff in Nigerian tertiary institutions World Bank. These programs provide opportunities for educators to enhance their teaching skills and stay updated with the latest pedagogical techniques. As a result, there has been a noticeable improvement in the quality of instruction and learning outcomes in these institutions. Additionally, this partnership has also led to the introduction of institutional governance frameworks and guidelines in Nigerian tertiary institutions. These frameworks promote transparency, accountability, and effective management practices in these institutions. Through the implementation of these guidelines, Nigerian tertiary institutions have been able to streamline their operations and improve their overall performance. The collaboration between the World Bank and Nigeria has also resulted in the provision of resources and funding for the development of infrastructure and facilities in these institutions. This has enabled Nigerian tertiary institutions to upgrade their facilities and provide students with a conducive learning environment. The partnership between the World Bank and Nigeria on tertiary education development has had a positive impact on capacity building and institutional governance in Nigerian tertiary institutions. Through various initiatives and programs, this collaboration has contributed to the overall improvement of the education sector in Nigeria and has paved the way for a brighter future for Nigerian students. Furthermore, Oladele, noted that the World Bank supports capacity-building and institutional reform by strengthening management systems, leadership, and policy frameworks within tertiary institutions. It assists in the training of academic and non-academic staff to ensure effective curriculum delivery and governance. Additionally, the collaboration encourages performance-based funding mechanisms that reward universities and colleges for achieving measurable outcomes in research productivity, graduate employability, and gender inclusion [15].

Skills Development and Employability

Another significant World Bank-Nigeria project is the Innovation Development and Effectiveness in the Acquisition of Skills (IDEAS) project. The primary objective is to make tertiary education more responsive to the demands of the job market through improving technical and vocational education and training (TVET) systems. In order to ensure that graduates have the needed employability skills, the project encourages industry partnerships, curriculum reform, and entrepreneurship development. Employability and skill development in Nigerian tertiary institutions were greatly affected by the World Bank and Nigeria collaboration on tertiary education development. Many projects and programs have been put into effect as a consequence of this partnership to improve Nigeria's whole school system [16].

These efforts have resulted in an increase in the quality of education and training provided by tertiary institutions, leading to a better skilled and more employable graduate population in the country. One of the key areas of focus in this collaboration has been on curriculum development. The World Bank according World Bank has provided technical assistance and resources to help Nigerian universities and colleges revamp their curriculum to meet the demands of the current job market. This has led to the introduction of new and relevant courses, as well as updates to existing ones, which better prepare students for the workforce. Additionally, the World Bank-Nigeria collaboration has also focused on providing training and support for teachers and professors in tertiary institutions. By investing in the development of educators, the quality of teaching and learning in Nigerian tertiary institutions has significantly improved. Consequently, World Bank students are receiving a higher standard of education, which in turn enhances their skills and employability. Another major aspect of this collaboration is the investment in infrastructure and technology in Nigerian tertiary institutions. With the support of the World Bank, many institutions have been able to upgrade their facilities and integrate modern technology into their teaching methods. This has resulted in a more conducive learning environment for students and has equipped them with the necessary technical skills that are highly sought after by employers. Furthermore, noted that the World Bank has also played a crucial role in providing funding and resources for research and innovation in Nigerian tertiary institutions. This has enabled students and faculty members to engage in cutting-edge research and develop innovative solutions to real-world problems. As a result, graduates from these institutions possess a strong research background and are well-equipped to tackle complex challenges in the workforce [17].

Equity, Access, and Inclusion

By emphasizing those who are underrepresented, the collaboration provides equal access to higher learning. This includes initiatives that encourage women to look for jobs in science and engineering, scholarships for students from underprivileged families, and improved accessibility to individuals with disabilities. Nigerian tertiary institutions' capacity and competitiveness were significantly boosted by the World Bank-Nigeria partnership. The introduction of performance-based funding has strengthened institutional accountability, infrastructure and research investments have improved the quality of education, and Nigerian universities are now more recognized globally. In addition, through promoting youth employment and entrepreneurship, a focus on innovation and skill development has assisted in bridging the gap between higher education and employment. Increased equity and inclusion in Nigerian tertiary institutions have the outcome of the World Bank and Nigeria's collaboration on tertiary education development. This can be seen through various initiatives, such as the establishment of scholarships and funding opportunities for underprivileged students, the improvement of infrastructure and resources in institutions to cater to diverse needs, and the implementation of policies that promote equal opportunities for all students [18]. Additionally, Word Bank in Musa the collaboration has also resulted in the diversification of curricula and teaching methods, allowing for a more inclusive and equitable learning experience for students. These efforts have ultimately led to a more equitable and accessible higher education system in Nigeria, providing opportunities for all individuals to pursue their academic aspirations. The partnership also promotes equity and inclusion, ensuring that tertiary education is accessible to disadvantaged groups, including women, rural populations, and persons with disabilities. By doing so, it aligns with Nigeria’s national development agenda and the United Nations Sustainable Development Goal 4 (SDG 4), which advocates for inclusive and equitable quality education for all.

4.1 Findings

The study revealed that World Bank–Nigeria Collaboration on Tertiary Education Development in Nigeria have led to infrastructure and quality improvement, research and innovation development, capacity building and institutional governance, skills development and employability and equity, access, and inclusion in Nigeria’ tertiary institutions.

4.2 Conclusion and Recommendation

The World Bank–Nigeria collaboration on tertiary education development demonstrates how strategic international partnerships can drive systemic reform in higher education. The study revealed that World Bank–Nigeria Collaboration on Tertiary Education Development in Nigeria have led to infrastructure and

quality improvement, research and innovation development, capacity building and institutional governance, skills development and employability and equity, access, and inclusion in Nigeria' tertiary institutions. Based on the findings, the study recommends the followings:

1. The Federal Government of Nigeria should ensure that all World Bank-supported tertiary education projects are effectively aligned with national education policies such as the National Policy on Education and the Ministerial Strategic Plan. This will ensure that international interventions complement local priorities rather than create parallel systems. Establishing a national coordination framework for managing external assistance in tertiary education would also help synchronize donor-funded programs with domestic initiatives, ensuring continuity and sustainability beyond project cycles.

2. To maximize the impact of World Bank funding, Nigerian tertiary institutions must strengthen their internal governance and management systems. This includes improving transparency in resource allocation, adopting performance-based funding mechanisms, and promoting accountability among administrators. The World Bank can support capacity-building programs that focus on leadership development, financial management, monitoring and evaluation (M&E), and data-driven decision-making. Stronger governance structures will enhance institutional efficiency and ensure that resources are used effectively for academic and infrastructural development.

3. The World Bank–Nigeria partnership should prioritize increased investment in research and innovation as catalysts for national development. This includes expanding initiatives such as the *Africa Centres of Excellence (ACE)* to more universities, encouraging interdisciplinary research, and facilitating stronger linkages between academia and industry. By fostering university–industry collaboration, Nigerian institutions can produce research that directly addresses national challenges in sectors such as agriculture, energy, technology, and public health. Additionally, the establishment of innovation hubs and technology transfer offices within universities can help commercialize research outputs and promote entrepreneurship among graduates.

4. To build a globally competitive tertiary education system, Nigeria should invest more in digital learning and the integration of information and communication technologies (ICTs) into teaching, research, and administration. The World Bank can support initiatives that enhance digital infrastructure, provide e-learning platforms, and train educators in the use of modern digital tools. Expanding access to online learning resources will improve inclusiveness and allow institutions to reach students in remote areas. Digitalization also enhances transparency in academic and administrative processes, helping institutions adopt global best practices in higher education delivery.

5. While World Bank financing is crucial, sustainability depends on Nigeria's ability to provide complementary domestic funding for tertiary education. The government should institutionalize a co-financing arrangement to reduce over-reliance on external aid. Part of this effort should include mobilizing resources through public-private partnerships (PPPs), alumni contributions, and research commercialization. Additionally, universities should develop income-generating initiatives that can support their long-term growth and autonomy. The World Bank can provide technical guidance on creating financial sustainability models tailored to Nigerian institutions.

6. The collaboration should continue to focus on inclusivity by providing equitable access to education for underrepresented groups such as women, rural populations, and persons with disabilities. Targeted scholarship programs, mentorship initiatives, and infrastructural adjustments (such as disability-friendly facilities) should be prioritized. The World Bank and Nigerian government can jointly design frameworks that ensure gender balance in STEM disciplines and leadership positions within academia. Promoting inclusive education aligns with the United Nations Sustainable Development Goal 4 (SDG 4) on "Quality Education for All."

7.Effective monitoring and evaluation (M&E) are essential to track progress, ensure accountability, and measure the impact of World Bank-funded interventions. The Federal Ministry of Education and the National Universities Commission (NUC) should establish a robust M&E framework that involves all stakeholders, including universities, polytechnics, and colleges of education. The framework should include periodic assessments, performance indicators, and feedback mechanisms to inform policy adjustments and enhance future project implementation.

8. The World Bank–Nigeria partnership should also encourage Nigerian tertiary institutions to engage in regional and global academic networks. This will promote knowledge exchange, academic mobility, and collaboration in research and innovation. Expanding the scope of the Africa Centres of Excellence (ACE) program and creating partnerships with leading global universities can help Nigerian institutions benchmark against international standards and enhance their global visibility.

9. To complement World Bank initiatives, Nigeria should involve the private sector more actively in tertiary education development. The private sector can contribute through funding, internships, curriculum design, and joint research ventures. Incentives such as tax breaks and recognition programs can motivate private organizations to invest in education. This collaboration would ensure that tertiary institutions produce graduates with skills relevant to market needs and promote innovation-driven growth.

10. To prevent project discontinuity after the completion of World Bank-funded programs, Nigeria should develop sustainability plans at the inception stage of each project. These plans should detail strategies for institutionalizing reforms, maintaining infrastructure, and scaling up successful models across other institutions. Building institutional memory through continuous training, documentation, and policy continuity will ensure that the benefits of World Bank interventions endure long after funding has ended.

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