Re-Imagining Education for National Development: A Nigerian Perspective

 \mathbf{BY}

EJEH LOVETH

Email Address: josephloveth2@gmail.com
Phone: +234 903 865 7079
Department of Political Science and Defence Studies
Faculty of Arts and Social Sciences
Nigerian Defence Academy, Kaduna, Kaduna State, Nigeria

Abstract

Education.

Education is a veritable tool in achieving national development in any nation in the world. The quality of education is, therefore, sinequanon to a nation's advancement. It is through strategic education that industrial advancement and improved conditions of living for mankind and moral regeneration can be attained. This paper adopted system theory as a framework of analysis. The methodology adopted was a contextual analysis that involves the review of existing literature such as journal articles, textbooks and relevant internet sources. The paper argued that the educational system in Nigeria has been challenged in critical aspects such as poor educational policies that cannot drive national advancement, bad governance, lack of visionary and futuristic leadership, corruption and non-accountability, insecurity, poverty, religion, etc. This has ultimately resulted in a poor educational system that lacks the capacity to engender national development. Therefore, there is a need to appraise the educational system in Nigeria, to introduce innovations that can transform the sector into a hub that will engender national development. The paper concludes that when the critical challenges affecting the educational system in Nigeria are attended to and good educational standards are put in place, there is no doubt that, national development will be enhanced. The paper then recommends that to attain national development in Nigeria, educational policies should be reviewed to accommodate educational practices that are suitable to our current national realities. It suggests scientific and technological driven educational policies that are technical and practical in form, vocational training and workplace ethics.

Keywords: Education, National Development, Leadership, Science and Technology, Vocational

Introduction

Education plays a pivotal role in national development by fostering human capital, innovation, and social cohesion. In Nigeria, however, the education system faces numerous challenges that hinder its ability to drive sustainable growth and national progress. Issues such as inadequate infrastructure, outdated curricula, poor funding, and a widening gap between education and industry needs continue to undermine the country's potential for development (Olanrewaju, 2023). As nations worldwide embrace educational reforms to align with 21st-century demands, Nigeria must reimagine its education system to enhance economic productivity, social stability, and technological advancement.

The concept of re-imagining education involves restructuring the traditional learning framework to incorporate digital transformation, skill-based learning, and policy reforms that foster inclusivity and innovation (Aina, 2022). The need for such transformation is crucial, given Nigeria's youthful population and the global shift toward a knowledge-based economy. Research indicates that countries that prioritize education reform experience significant improvements in economic development, reduced inequality, and enhanced governance (Eze & Adeyemi, 2023).

Therefore, nations that are desirous of introducing state of the art innovations across all sectors of their lives have extensively made the right investments in education and provided incentives and opportunities that can attract their citizens to grab such opportunities with two hands, bearing in mind that investments in human beings are the genes that translate or metamorphose into development (Obona, 2019). Thus, aligning Nigeria's educational policies with modern trends in science, technology, and entrepreneurship is essential for achieving national development.

Moreover, the role of education in addressing critical national challenges such as insecurity, unemployment, and poor governance cannot be overstated. Studies have shown that nations with

strong education systems experience lower crime rates, increased civic engagement, and improved democratic governance (Okonkwo & Yusuf, 2023). By investing in education that promotes critical thinking, digital literacy, and vocational skills, Nigeria can build a workforce capable of driving sustainable development and competing in the global economy.

The paper is structured into six sub-headings. The first one looks at the introduction of the subject matter. The second heading discusses literature on the subject matter. While section three looks at the methodology, followed by Presentation and analysis, and then, it concluded and stated the way forward.

Literature Review

The Concept of Education and Its Importance

Education is a fundamental pillar of societal progress and national development. It is a structured process through which individuals acquire knowledge, skills, values, and attitudes necessary for personal and societal growth (Okonkwo & Yusuf, 2023). The concept of education extends beyond formal schooling to include informal and non-formal learning, encompassing a broad spectrum of intellectual, social, and economic activities that contribute to human capital development (Aina, 2022). Globally, education is recognized as a key driver of economic growth, social transformation, and political stability, making it an indispensable tool for national development.

The importance of education in fostering national development cannot be overstated. Research shows that countries with well-developed education systems experience higher economic productivity, reduced poverty levels, and improved governance (Eze & Adeyemi, 2023). In Nigeria, where challenges such as unemployment, insecurity, and political instability persist, a reimagined education system can serve as a catalyst for sustainable development. By equipping

individuals with critical thinking skills, digital literacy, and entrepreneurial competencies, education enhances workforce capacity and drives innovation (Olanrewaju, 2023).

Moreover, education promotes social cohesion by fostering mutual understanding, tolerance, and civic engagement. A well-educated population is more likely to participate in democratic governance, advocate for human rights, and contribute to national unity (Okonkwo & Yusuf, 2023). Additionally, education plays a crucial role in addressing gender inequality, improving healthcare outcomes, and enhancing technological advancement.

However, many educational systems struggle with poorly trained teachers, outdated curricula, and inadequate infrastructure, which hinder learning outcomes (World Bank, 2018). Public spending on education is often below the recommended 4–6% of GDP, limiting the sector's ability to address systemic challenges (UNESCO, 2020).

National Development and Its Scope

National development refers to the comprehensive growth and advancement of a nation in terms of its economy, infrastructure, human capital, governance, and social well-being. According to Todaro and Smith (2015), national development encompasses improvements in the living standards of people, reduction in poverty, equitable distribution of resources, and enhanced political and social institutions. It is a multidimensional process that integrates economic, social, cultural, and political progress to achieve sustainable growth.

The United Nations Development Programme (UNDP, 2020) emphasizes that national development is not limited to economic growth but also includes human development indicators such as education, healthcare, gender equality, and environmental sustainability.

For Akinwale & Okonkwo (2023) national development refers to the process of improving the economic, social, political, and cultural conditions of a country to enhance the overall well-being of its citizens. It encompasses various aspects, including economic growth, human capital development, infrastructure expansion, good governance, and social equity. National development is often measured through indicators such as GDP growth, literacy rates, healthcare accessibility, technological advancement, and poverty reduction. In Nigeria, achieving sustainable national development requires a holistic approach that integrates education, governance, economic policies, and social reforms (Eze, 2022).

The scope of national development is broad and multidimensional. It includes:

- i. Economic Development: This involves improving national income, industrialization, employment generation, and poverty reduction. A robust economy provides resources for social services, infrastructure, and technological innovation (Olanrewaju, 2023).
- ii. Human Capital Development: Investing in education, healthcare, and skills development enhances workforce productivity and innovation, which are critical for sustainable growth (Yusuf & Adeyemi, 2023).
- iii. Political Development: Strengthening democratic institutions, promoting rule of law, and ensuring good governance are essential for political stability and effective public administration (Okonkwo & Adebayo, 2023).
- iv. Social Development: This focuses on reducing inequality, improving healthcare systems,
 expanding access to quality education, and fostering social cohesion (Akinwale & Okonkwo, 2023).

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v. Technological Advancement: Innovations in science and technology contribute to

industrialization, digital transformation, and economic competitiveness in a globalized

world (Eze, 2022).

vi. Environmental Sustainability: Sustainable national development requires policies that

balance economic growth with environmental conservation, ensuring responsible resource

management for future generations (Olanrewaju, 2023).

Indicators of National Development

The level of national development can be assessed through several indicators:

National development is a multidimensional process that encompasses economic growth, social

progress, political stability, and environmental sustainability. Various indicators are used to assess

the extent of national development, reflecting the overall well-being of a country and its citizens.

One of the most significant indicators is economic growth, commonly measured by Gross

Domestic Product (GDP). A rising GDP signifies increased production, job creation, and improved

living standards (World Bank, 2023). However, economic growth alone does not guarantee

development, as disparities in wealth distribution can lead to inequality and social unrest.

Human development is another critical indicator, assessed through the Human Development Index

(HDI), which considers life expectancy, education levels, and income per capita. A high HDI

reflects better access to healthcare, quality education, and improved standards of living (UNDP,

2023). Education, in particular, is a cornerstone of national development, as higher literacy rates

and increased educational attainment contribute to an informed and skilled workforce, fostering

innovation and productivity (UNESCO, 2023).

In addition to human capital development, employment levels and poverty rates are vital indicators. A low unemployment rate suggests a thriving labor market, while high employment levels contribute to social stability and economic prosperity. Conversely, high poverty rates indicate economic disparities and inadequate social welfare systems (Olanrewaju & Adeyemi, 2022). Similarly, access to quality healthcare, reflected in life expectancy and infant mortality rates, is crucial in determining national development. A well-functioning healthcare system ensures a healthy population, which in turn boosts economic productivity (WHO, 2023).

Political stability and good governance also play an essential role in national development. Countries with strong democratic institutions, the rule of law, and low corruption levels tend to experience sustainable growth and improved quality of life for their citizens (Freedom House, 2023). Infrastructure development, including roads, electricity, and digital connectivity, further enhances national progress by facilitating trade, investment, and access to essential services (Eze & Okonkwo, 2023). Moreover, technological advancement and a thriving digital economy are increasingly recognized as key indicators of development, as they drive innovation and global competitiveness (World Economic Forum, 2023).

Environmental sustainability has also become an important dimension of national development. Issues such as climate change, deforestation, and carbon emissions impact long-term economic stability and the well-being of future generations. Countries that implement policies to promote renewable energy and environmental conservation tend to experience more sustainable development (United Nations Environment Programme, 2023). Lastly, income equality, measured by the Gini coefficient, is crucial in determining national progress. A more equitable distribution of wealth reduces social tensions and fosters national unity (World Bank, 2023).

Thus, national development is best understood through a combination of economic, social, political, and environmental indicators. While economic growth is fundamental, a holistic approach that includes human capital investment, strong institutions, technological innovation, and sustainable policies is necessary for long-term development.

Challenges to National Development

National development in Nigeria faces numerous challenges that hinder economic growth, social progress, and political stability. One of the most pressing issues is poor governance and corruption, which undermine national development efforts. Weak institutions, lack of accountability, and mismanagement of public resources continue to stifle progress, preventing the effective implementation of policies and programs (Transparency International, 2023). Corruption in Nigeria affects key sectors such as education, healthcare, and infrastructure, limiting access to essential services and widening inequality (World Bank, 2023).

Another significant challenge is the high level of poverty and unemployment. Despite Nigeria's vast natural and human resources, a large proportion of the population remains impoverished due to limited job opportunities and an over-reliance on the oil sector (Olanrewaju & Adeyemi, 2023). The informal sector, which employs a large percentage of Nigerians, lacks stability and social protection, leaving many vulnerable to economic shocks. Youth unemployment, in particular, has fueled social unrest, crime, and insecurity, threatening national stability (International Labour Organization, 2023).

Education, a fundamental driver of national development, also suffers from systemic deficiencies.

Inadequate funding, outdated curricula, and poor infrastructure have weakened Nigeria's

education system, leading to low literacy rates and a mismatch between graduates' skills and labor

market demands (UNESCO, 2023). Many children, especially in rural areas, lack access to quality

education, further exacerbating social inequality and limiting human capital development.

Similarly, healthcare challenges persist, with inadequate medical facilities, a shortage of healthcare

professionals, and high infant and maternal mortality rates slowing progress toward national

development goals (World Health Organization, 2023).

Security concerns, particularly the rise of terrorism, banditry, and kidnapping, have further

hampered development. The persistent threats posed by groups such as Boko Haram, armed

bandits, and separatist movements have displaced communities, disrupted economic activities, and

strained government resources (Institute for Security Studies, 2023). In regions like the North-East

and North-West, insecurity has led to school closures, reduced agricultural productivity, and a

decline in foreign investment, all of which negatively impact national development (African

Development Bank, 2023).

Additionally, inadequate infrastructure remains a major obstacle. Poor road networks, unreliable

electricity supply, and a lack of efficient transportation systems hinder economic growth and

industrialization (Eze & Okonkwo, 2023). Businesses struggle to operate in an environment where

power outages are frequent, transportation costs are high, and digital connectivity is limited, reducing Nigeria's competitiveness in the global market (World Economic Forum, 2023).

Environmental challenges, including deforestation, desertification, and climate change, also pose threats to national development. Frequent flooding, soil degradation, and declining agricultural productivity have led to food insecurity and forced migration in many parts of the country (United Nations Environment Programme, 2023). Without effective policies to address these environmental concerns, sustainable development remains a challenge.

Addressing these obstacles requires a multi-faceted approach involving good governance, investments in education and healthcare, economic diversification, and security reforms. Without tackling these challenges, achieving sustainable national development in Nigeria will remain an uphill task.

A Brief Background of Nigeria's Education Structure from Independence to Date

Nigeria's education system has undergone significant transformations since gaining independence in 1960. At independence, the British colonial education structure, which prioritized literacy and clerical skills, was still in place. The system followed the 6-5-2-3 structure: six years of primary education, five years of secondary school, two years of higher secondary, and three years of university education. This system was criticized for being too theoretical and not addressing the country's socio-economic needs (Fafunwa, 1991).

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In 1977, Nigeria introduced the 6-3-3-4 system through the National Policy on Education, emphasizing vocational and technical education. This reform aimed to equip students with practical skills and reduce reliance on white-collar jobs (Federal Ministry of Education, 2004). The 6-3-3-4 structure consisted of six years of primary education, three years of junior secondary, three years of senior secondary, and four years of tertiary education. However, challenges such as inadequate funding, poor teacher training, and infrastructure deficits hindered its full implementation (Nwagwu, 2014).

In 2008, the Nigerian government revised the system again, introducing the 9-3-4 structure, which merged six years of primary education and three years of junior secondary education into a continuous nine-year Universal Basic Education (UBE) program (UNESCO, 2020). This aimed to improve access to education and reduce dropout rates. Despite these efforts, challenges like inadequate funding, poor teacher quality, and security threats (e.g., Boko Haram insurgency) continue to limit educational progress (Olanrewaju & Adeyemi, 2023). Today, Nigeria's education system faces the urgent need for curriculum reforms to align with global trends and national development goals.

Curriculum Change in Education and Its Impact on National Development

Curriculum change plays a crucial role in shaping national development by equipping learners with relevant knowledge and skills. Historically, Nigeria's education curriculum was heavily influenced by the colonial model, which prioritized humanities and clerical skills over science, technology, and entrepreneurship (Fafunwa, 1991). Over the years, the government has introduced various reforms, such as integrating science, technology, engineering, and mathematics (STEM) education, technical and vocational education training (TVET), and entrepreneurship studies into

the curriculum (Federal Ministry of Education, 2013). These reforms aim to enhance employability, reduce unemployment, and promote innovation.

A well-structured curriculum tailored to Nigeria's developmental needs can significantly boost national growth. For instance, strengthening digital literacy, artificial intelligence, and cybersecurity education can position Nigeria as a global tech hub (Adedeji & Ogunleye, 2022). Additionally, integrating peace and security education into the curriculum can help curb social unrest and promote national stability. Curriculum changes that emphasize skills acquisition, creativity, and problem-solving will not only reduce youth unemployment but also foster a workforce capable of driving industrialization and economic transformation.

Nigeria National Development

Nigeria's national development has been shaped by various socio-economic and political factors. Since independence, the country has made progress in key areas such as infrastructure, education, and economic growth. However, national development has been hampered by persistent challenges, including political instability, corruption, poor governance, and security threats (World Bank, 2023).

Economic growth in Nigeria has largely depended on crude oil exports, creating a mono-economic structure that is vulnerable to global price fluctuations. Efforts to diversify the economy through agriculture, manufacturing, and digital industries have been slow due to inadequate infrastructure and policy inconsistencies (Eze & Okonkwo, 2023). Social development has also faced setbacks, with high levels of poverty, inequality, and limited access to quality healthcare and education affecting human capital development (UNDP, 2023).

Security remains a major obstacle to national development. The rise of terrorism, banditry, and kidnapping especially in northern Nigeria has disrupted education, trade, and investment (Institute for Security Studies, 2023). The government's response to these challenges has included military operations, security sector reforms, and economic interventions, but more sustainable solutions, such as good governance, job creation, and inclusive development, are needed.

For Nigeria to achieve sustainable national development, a holistic approach is required, one that prioritizes education, security, economic diversification, and effective governance. By aligning education reforms with national development objectives, Nigeria can build a skilled and knowledgeable workforce capable of driving innovation, economic growth, and social stability.

Theoretical Framework

Human Capital Theory

There are many theories under which the issue of education and national development can be approached. However, this paper adopts the Human Capital Theory (HCT) as its guide.

Human Capital Theory (HCT) serves as a foundational framework for understanding the role of education in national development. The theory posits that investments in human capital through education, training, and skill development enhance individual productivity and contribute to overall economic growth. It provides a crucial lens for analyzing the impact of education on Nigeria's national development, as it emphasizes the importance of a well-educated and skilled workforce in fostering economic progress and social stability.

Human Capital Theory was primarily developed by economists Adam Smith (1776), Theodore Schultz (1961), and Gary Becker (1964). Smith, in *The Wealth of Nations*, laid the foundation by recognizing the economic value of skills and education. However, it was Schultz who formally

introduced the term "human capital" in his seminal work on education and economic development.

Becker further expanded on Schultz's ideas in his book *Human Capital: A Theoretical and Empirical Analysis*, with Special Reference to Education (1964), where he explored the link between education, productivity, and earnings. The theory emerged in response to the need for a more systematic understanding of how education contributes to economic growth, particularly in the post-World War II era when many nations sought to rebuild their economies by prioritizing

human capital investment (Schultz, 1961; Becker, 1964).

Basic Assumptions of Human Capital Theory

Human Capital Theory operates on these several key assumptions:

- i. Education Increases Productivity: The theory assumes that individuals who acquire education and training become more productive and efficient in their work (Becker, 1993).
- ii. Investment in Human Capital Yields Economic Returns: Just as investments in physical capital (such as machinery) lead to economic gains, investments in education, healthcare, and training enhance individual and national economic growth (Schultz, 1971).
- iii. Higher Education Leads to Higher Earnings: The theory suggests a direct correlation between educational attainment and income levels, arguing that individuals with more education are likely to earn higher wages (Mincer, 1974).
- iv. Education Reduces Inequality and Poverty: By equipping individuals with knowledge and skills, education can help bridge socio-economic gaps, reduce unemployment, and improve standards of living (Psacharopoulos & Patrinos, 2004).
- v. Knowledge-Based Economies Drive National Development: Countries that invest in education and research are more likely to experience sustainable economic growth and innovation (Barro, 2001).

Relevance of Human Capital Theory to Nigeria's National Development

The Human Capital Theory is highly relevant to Nigeria's educational sector and national

development. Nigeria, like many developing nations, faces challenges such as low literacy rates,

high unemployment, and skill mismatches in the labor market (World Bank, 2023). Applying HCT

underscores the need for strategic investments in education, vocational training, and digital literacy

to enhance workforce productivity.

First, education is essential for economic diversification and industrialization. Nigeria's economy

remains largely dependent on oil exports, making it vulnerable to global price fluctuations. A

strong human capital base, fostered through quality education can drive the growth of sectors like

technology, agriculture, and manufacturing (Emefiele, 2022).

Second, education plays a crucial role in governance and social stability. Studies have shown that

regions with higher literacy rates tend to experience lower crime and social unrest (UNDP, 2023).

By equipping citizens with critical thinking skills and civic awareness, education contributes to

democratic governance and national cohesion.

Third, investing in human capital enhances Nigeria's global competitiveness. In an era of

globalization and technological advancement, countries with highly skilled populations tend to

attract foreign investments and innovations (OECD, 2022). Strengthening Nigeria's education

system can position the country as a knowledge-driven economy in Africa.

Critiques of Human Capital Theory to the Study

Despite its widespread acceptance, Human Capital Theory has faced several criticisms:

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- Overemphasis on Economic Returns: Critics argue that HCT reduces education to a mere economic tool, overlooking its broader social and cultural benefits, such as personal development and civic engagement.
- ii. Neglect of Structural Barriers: The theory assumes that education alone is sufficient for economic mobility. However, in countries like Nigeria, factors such as corruption, lack of job opportunities, and poor governance often hinder the benefits of educational investments.
- iii. Skill-Job Mismatch: Many Nigerian graduates face unemployment despite their qualifications, indicating that the education system does not always align with labor market demands. This suggests that merely increasing education levels without addressing structural economic issues may not lead to national development.
- iv. Inequality in Access to Education: Human Capital Theory assumes equal access to education, but in reality, disparities in funding, gender, and regional inequalities limit educational opportunities for many Nigerians, particularly in rural areas.

The Importance of Science, Technology, and Vocational Education to National Development

Education is a crucial driver of national development, and the integration of science, technology, and vocational education (STVE) plays a significant role in shaping economic growth, social progress, and global competitiveness. In Nigeria, where challenges such as unemployment, industrial stagnation, and technological dependency persist, the need to strengthen STVE is more urgent than ever. Science and technology education fosters innovation and industrialization, while vocational education equips individuals with practical skills for employment and entrepreneurship, collectively enhancing national development (UNESCO, 2023).

Science and Technology Education as Catalysts for Economic Growth

Science and technology are fundamental to the economic transformation of any nation. The rapid

advancements in artificial intelligence, biotechnology, and digital transformation have

demonstrated the power of science and technology in improving productivity and fostering

innovation. Countries with strong investments in science and technology, such as China, the

United States, and Germany, have achieved significant economic breakthroughs (World Bank,

2023). In Nigeria, strengthening science education can accelerate industrialization, improve

agricultural productivity, and advance healthcare systems (Adebayo & Oyekola, 2022).

Scientific research and technological innovations enhance economic productivity by creating new

industries and improving efficiency in traditional sectors. For instance, agricultural technologies

such as precision farming and genetically modified crops have improved food security in many

parts of the world. Similarly, technological innovations in the energy sector, particularly in

renewable energy, can address Nigeria's chronic power shortages and drive sustainable

development (Obi & Edeh, 2021).

Furthermore, science education contributes to national security and self-sufficiency. Countries that

invest in defense technology, cybersecurity, and space research reduce their dependency on foreign

expertise. Nigeria's National Space Research and Development Agency (NASRDA) and efforts

in cybersecurity enhancement illustrate the growing relevance of science and technology education

in addressing security challenges (Nwankwo, 2022).

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Vocational Education and Employment Generation

Vocational education is a strategic tool for reducing unemployment and fostering economic

inclusivity. Unlike conventional academic education, vocational training equips individuals with

hands-on skills relevant to industries such as construction, manufacturing, information technology,

and agriculture (Okoro & Azubuike, 2022). In many developed countries, vocational education is

a core component of national economic strategies, as seen in Germany's dual education system,

which integrates vocational training with industrial work experience (OECD, 2022).

For Nigeria, where youth unemployment remains a pressing issue, expanding vocational education

can provide alternative career pathways and bridge the skills gap in the labor market. Many

Nigerian graduates struggle to find employment due to a mismatch between their university

education and industry needs. Investing in vocational and technical education would enable

graduates to acquire practical skills, thereby increasing their employability and fostering

entrepreneurship (Oladele & Onifade, 2021).

Additionally, vocational education plays a critical role in rural development and poverty reduction.

By equipping individuals with skills in agribusiness, carpentry, tailoring, and electrical works,

vocational training fosters self-reliance and economic empowerment, particularly in rural

communities where white-collar jobs are scarce (Akinpelu et al., 2023). This, in turn, promotes

inclusive growth and national stability.

The Role of Science, Technology, and Vocational Education in Sustainable Development

The global shift towards sustainable development has placed greater emphasis on science,

technology, and vocational education. Technological innovations in renewable energy, waste

management, and climate change mitigation are vital for achieving environmental sustainability.

Nigeria, as a developing economy, must integrate sustainability-focused education into its

curriculum to address pressing environmental challenges such as deforestation, pollution, and

climate change (UNDP, 2023).

Similarly, vocational education supports sustainability by promoting eco-friendly practices in

construction, agriculture, and manufacturing. For instance, training programs in sustainable

farming techniques, energy-efficient building designs, and waste recycling can contribute to

Nigeria's green economy and enhance its resilience to climate change (Eze & Okwu, 2022).

Conclusion

Education remains a vital tool for national development, serving as the foundation for economic

growth, technological innovation, social equity, and human capital development. Science,

technology, and vocational education play a transformative role in equipping individuals with the

skills needed to address the challenges of a rapidly evolving global economy. Despite the

challenges of underfunding, curriculum misalignment, and societal perceptions, targeted reforms

and strategic investments can unlock the full potential of STV education. By prioritizing education

as a key pillar of development, nations can create a skilled workforce, foster innovation, and build

inclusive and resilient societies for sustainable progress.

Way forward

To address the challenges hindering the role of education in national development, particularly in

the areas of science, technology, and vocational education, the following recommendations are

crucial:

- Increased Funding for Education: The government of Nigeria must allocate a significant portion of the national budget to education, ensuring adequate resources for infrastructure, teaching materials, and capacity-building for educators.
- ii. Curriculum Overhaul: Education curricula should be regularly updated to align with modern technological advancements and the demands of the global workforce, particularly in STEM and vocational fields.
- iii. Strengthening Vocational and Technical Education: There should be greater emphasis on vocational training programs that equip students with practical and market-relevant skills, reducing the over-reliance on white-collar jobs.
- iv. Public-Private Partnerships (PPP): Collaborations between government, private sector, and international organizations can enhance investments in education and provide access to state-of-the-art technologies and facilities.
- v. Capacity Building for Educators: Regular training and development programs for teachers and trainers in STEM and vocational education are essential to improve the quality of instruction.
- vi. Promotion of Research and Innovation: Establishing research grants and innovation hubs in schools and tertiary institutions can encourage students to develop solutions to local and global challenges.
- vii. Community Awareness Campaigns: Raising awareness of the value of science, technology, and vocational education can help change societal perceptions and encourage more students to pursue careers in these fields.
- viii. Policy Implementation and Monitoring: Effective implementation of policies and programs, accompanied by regular monitoring and evaluation, is essential to ensure accountability and the achievement of set educational goals.

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