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TRANSNATIONAL JOURNAL OF EDUCATION AND SCIENTIFIC DEVELOPMENT



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Volume 1 Issue 1, September 2025 - ISSN: 3092-9431

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Influence of Economics of Education on Educational Policy Making in Nigeria

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DOI: <https://doi.org/10.5281/zenodo.17222321>

Citation: Iwok., M. S., & Odejimi, I. O. (2025). Influence of Economics of Education on Educational Policy Making in Nigeria. *Transnational Journal of Education and Scientific Development*, 1(1).

Abstract

This study investigates the role of the economics of education in shaping Nigeria's educational policymaking, with emphasis on the interplay between funding, labour market alignment, and equity. Using a qualitative analysis of key policy documents like the National Policy on Education (2008) and the Universal Basic Education Act (2004), and international reports, complemented by recent Nigerian budgetary and employment data, the paper applies the "3Es" framework (effectiveness, efficiency, and equity) to evaluate policy outcomes. Findings reveal persistent underinvestment, structural inefficiencies, and a misalignment between education outputs and labour market demands, resulting in high graduate unemployment and inequities in access. Beyond diagnosing these gaps, the paper proposes a resource-alignment model that integrates manpower forecasting, targeted investments, and accountability mechanisms. By situating Nigeria's policy experience within global and regional benchmarks, the study

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contributes a framework for enhancing efficiency and inclusiveness in education financing and planning.

Keywords: Economics of Education, Educational Policy, Nigeria, Human Capital, Resource Allocation

1.1 Introduction

Education is widely recognized as a cornerstone of national development. It provides individuals with the knowledge, skills, and values necessary for social progress, economic growth, and political stability (UNESCO, 2021). In Nigeria, as in many developing countries, the level of educational attainment is closely linked to improvements in living standards, poverty reduction, and national productivity (World Bank, 2020). However, the success of any education system depends not only on its vision but also on effective planning, adequate financing, and sound policy implementation.

The economics of education, which integrates economic principles into the study and management of education, offers valuable insights into how resources can be allocated and utilised efficiently to achieve educational goals (Psacharopoulos & Patrinos, 2018). It emphasises the principles of effectiveness, efficiency, and equity, guiding policymakers to align limited financial resources with national development priorities. Within this framework, education is viewed as an investment in human capital, an investment that yields both private benefits for individuals and external benefits for society through enhanced productivity, employability, and innovation (Becker, 1993; Hanushek & Woessmann, 2020).

In Nigeria, constitutional and policy frameworks, including the National Policy on Education (2008) and the Universal Basic Education Act (2004), aim to ensure equal access to quality education, expand opportunities at all levels, and strengthen human capital development. Yet persistent challenges remain. Government funding for education consistently falls below the UNESCO-recommended benchmark of 15–20% of national budgets, with Nigeria allocating less than 8% in recent years (UNESCO, 2021; Okebukola, 2020). This underinvestment has led to gaps in infrastructure, teacher quality, and service delivery. Moreover, high unemployment among graduates, mismatches between skills supplied and labour market demands, and the pressures of globalisation further complicate policy outcomes (Akinyemi, Ofem, & Ikuenomore, 2019).

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These challenges highlight the importance of examining the economics of education as both a lens for analysing existing policies and a tool for informing future reforms. Understanding how economic variables, such as resource allocation, cost-benefit analysis, and labour market demands, intersect with education policy is crucial for addressing inefficiencies, reducing inequalities, and maximising the developmental role of education in Nigeria.

This paper therefore explores the influence of the economics of education on educational policymaking in Nigeria. By analysing key policy documents and relevant literature, it seeks to clarify the economic underpinnings of education reforms, identify the major constraints to effective implementation, and propose strategies for strengthening the alignment between economic realities and educational goals.

1.2 Objectives

- i. To examine the role of economics of education in shaping Nigeria's education policy framework.
- ii. To analyse the implications of financial allocation, human capital demands, and socio-economic pressures on policy implementation.
- iii. To recommend strategies for integrating economic principles into education policy to enhance national development outcomes.

1.3 Research Questions

- i. How does the economics of education influence the formulation and implementation of educational policies in Nigeria?
- ii. What are the major economic challenges that shape Nigeria's education policy environment?
- iii. In what ways can principles of economics of education be applied to improve policy effectiveness, efficiency, and equity?

2 Literature Review

2.1 Human Capital Theory and the Economics of Education

The economics of education is grounded in the principle that education is both a consumption good and an investment in human capital. Becker (1993) and Schultz (1961) pioneered this perspective, arguing that investments in education increase individual productivity, earning capacity, and broader societal development. Empirical

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studies have reinforced these claims, showing strong correlations between educational attainment, labour market outcomes, and economic growth (Hanushek & Woessmann, 2020; Psacharopoulos & Patrinos, 2018).

Human capital theory also provides a framework for understanding how education policies are shaped by economic imperatives. In contexts such as Nigeria, education is viewed as essential for building the skilled workforce required for national competitiveness. However, mismatches between education outputs and labour market demands have raised concerns about the effectiveness of current policies in translating human capital investments into tangible development outcomes (Akinyemi, Ofem, & Ikuenomore, 2019).

2.2 Economics of Education and Policy Formulation

The integration of economic principles into education policy emphasises efficiency, equity, and effectiveness in resource allocation. Psacharopoulos and Woodhall (1997) highlight that education systems must be designed to maximise returns on investment while minimising wastage. This perspective is particularly relevant in countries with limited resources, where policymakers must balance competing demands for infrastructure, teacher training, and curriculum reform.

Globally, the link between economics and education policy has been reinforced by international benchmarks and donor frameworks, such as UNESCO's recommendation that governments allocate 15–20% of their national budgets to education (UNESCO, 2021). However, Nigeria has consistently fallen short of this benchmark, with allocations hovering below 8% (Okebukola, 2020). This persistent underfunding undermines the implementation of ambitious policies such as the Universal Basic Education (UBE) Act of 2004 and the goals of the National Policy on Education (2008).

2.3 The Nigerian Policy Context

Nigeria's education system has undergone several reforms aimed at improving access, equity, and quality. The National Policy on Education (2008) outlines broad objectives, including free and compulsory basic education, vocational training, and tertiary expansion. Complementary initiatives such as the National Economic Empowerment and Development Strategy (NEEDS) and the UBE Act emphasise the role of education as a driver of socio-economic transformation (Federal Republic of Nigeria, 2008).

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Despite these policy commitments, implementation has been constrained by economic realities. Limited funding, politicisation of resource allocation, and inefficiencies in administration have produced gaps between policy intentions and outcomes (Okebukola, 2020; Obanya, 2019). Additionally, globalisation has reshaped policy debates, placing greater emphasis on competitiveness, employability, and the alignment of curricula with labour market demands (Brown, Lauder, & Ashton, 2011). These dynamics underscore the need for stronger integration of economic analysis into Nigeria's education policymaking processes.

The reviewed literature highlights three key insights. First, human capital theory underscores the centrality of education in driving economic and social development. Second, the economics of education provides tools for efficient and equitable policy design, particularly in resource-constrained contexts. Third, Nigeria's education policy environment reflects a persistent gap between economic aspirations and financial realities, raising questions about the sustainability of current reforms. This study builds on these insights by examining how economic considerations influence educational policymaking in Nigeria, with particular attention to issues of resource allocation, labour market alignment, and globalisation.

3. Methodology

This study adopts a qualitative policy analysis approach to examine the influence of the economics of education on educational policymaking in Nigeria. The analysis draws on official government documents such as the *National Policy on Education (2008)* and the *Universal Basic Education Act (2004)*, alongside reform initiatives like the National Economic Empowerment and Development Strategy (NEEDS). International reports, including UNESCO's *Global Education Monitoring Report* and World Bank education sector analyses, were also consulted to provide comparative benchmarks. In addition, relevant scholarly literature on the economics of education, human capital theory, and Nigerian education reforms was reviewed to establish the theoretical and conceptual foundations of the study.

Guided by principles from the economics of education and human capital theory, the analysis focused on how policies align with the “3Es” of education planning—effectiveness, efficiency, and equity—while also considering challenges related to resource allocation, labour market demands, and globalisation. A thematic analysis of the selected documents was carried out by identifying recurring patterns in

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how economic considerations are embedded in education policy. The study is limited by its reliance on secondary sources and documentary evidence, but this approach provides a comprehensive overview of how economic variables shape policy intentions and outcomes in Nigeria.

4. Findings and Analysis

The analysis of Nigerian education policies and related literature reveals several key areas where the economics of education directly influences policy formulation and implementation.

4.1 Funding Constraints and Rising Costs

One of the most critical findings is the persistent underfunding of Nigeria's education sector. Although policy documents such as the *National Policy on Education (2008)* commit the government to providing free and compulsory education, actual budget allocations remain far below the UNESCO benchmark of 15–20% of national expenditure. In recent years, Nigeria has allocated less than 8% of its budget to education (UNESCO, 2021; Okebukola, 2020). Rising costs of infrastructure, teacher salaries, and instructional materials have further strained the system, creating a gap between policy aspirations and implementation capacity.

Table 1. Nigeria's Federal Budget Allocation to Education vs UNESCO Benchmark

Year	Total Federal Budget (₦ Trillion)	Education Allocation (₦ Billion)	% of Total Budget	UNESCO Benchmark (15 – 20%)	Gap from Benchmark
2010	4.6	234	5.1%	15–20%	–10% to –15%
2015	4.5	392	8.7%	15–20%	–6% to –11%
2020	10.6	671	6.3%	15–20%	–9% to –14%
2021	13.6	742	5.5%	15–20%	–10% to –15%
2022	17.1	923	5.4%	15–20%	–10% to –15%

Source: Federal Government Budget Reports (various years); UNESCO (2021).

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4.2 Unemployment and Labour Market Mismatch

A second key finding concerns the mismatch between education outputs and labour market demands. Despite increased enrolment at tertiary levels, graduate unemployment remains high, reflecting a disconnect between curricula and the needs of the economy (Akinyemi, Ofem, & Ikuenomore, 2019). This situation underscores the role of the economics of education in promoting manpower forecasting and aligning education provision with national development priorities. Without such alignment, education risks producing underemployed graduates rather than contributing to productivity and growth.

Table 2. Graduate Unemployment Rates in Nigeria (2010–2021)

<i>Year</i>	<i>Graduate Unemployment (%)</i>	<i>Overall Unemployment (%)</i>	<i>Skills Mismatch Indicator (Employers reporting poor fit, %)</i>
2010	23.4%	14.0%	41%
2015	29.8%	20.1%	45%
2020	36.5%	27.1%	52%
2021	40.1%	33.3%	56%

Source: National Bureau of Statistics; Akinyemi, Ofem, & Ikuenomore (2019).

4.3 Quality and Efficiency Challenges

The quality of education has emerged as a major concern, with employers often dissatisfied with the competencies of school leavers (Obanya, 2019). Inefficiencies such as resource wastage, inadequate teacher training, and poor-quality assurance mechanisms weaken the system's effectiveness. From an economic perspective, this represents a misallocation of scarce resources, as investments fail to yield commensurate returns in human capital development. Strengthening teacher education and accountability mechanisms is therefore essential for improving both efficiency and outcomes.

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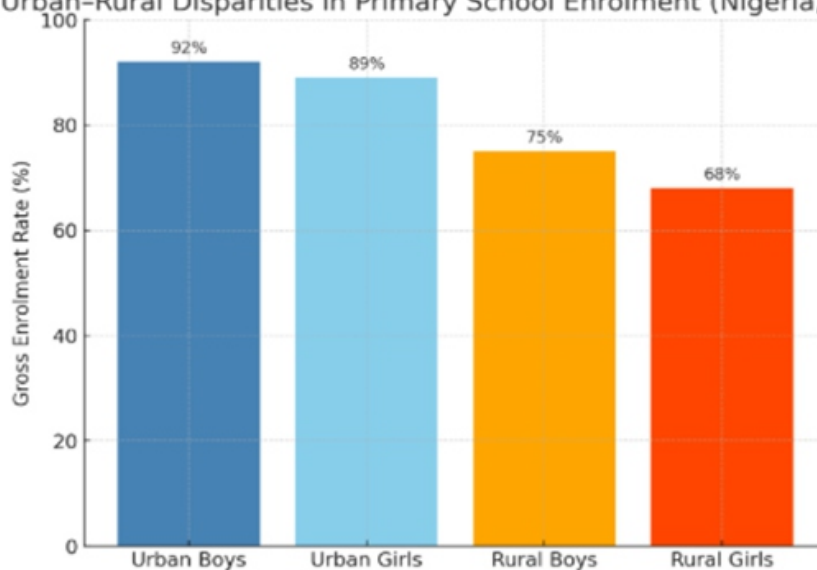
4.4 Globalisation and Policy Pressures

Global economic integration has further shaped Nigeria's education policy priorities. As Bottery (2004) and Brown, Lauder, and Ashton (2011) note, globalisation has intensified the demand for competitiveness, employability, and knowledge-driven economies. In Nigeria, this has translated into reforms emphasising science, technology, and entrepreneurship education. However, limited resources and structural inefficiencies constrain the ability of policies to fully respond to these global pressures, leaving the education system vulnerable to international comparisons of quality and relevance.

4.5 Human Capital Development and Equity

Finally, the findings highlight the importance of human capital development and equitable access. Human capital theory emphasises education as a driver of productivity and social mobility (Becker, 1993; Hanushek & Woessmann, 2020). While Nigerian policies formally recognise equity, such as through the UBE Act's provisions for universal access, implementation is uneven, with rural areas and disadvantaged groups facing greater barriers. This inequity undermines the broader economic and social benefits of education, reinforcing cycles of poverty and inequality.

Urban-Rural Disparities in Primary School Enrolment (Nigeria, 2020)



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5. Discussion

The analysis demonstrates that the economics of education is not only a lens for evaluating Nigeria's education system but also a necessary framework for guiding reform. The persistent budget allocation of less than 8% of national expenditure (compared to UNESCO's 15–20% benchmark) reflects a structural underinvestment that undermines both efficiency and long-term human capital development. Quantitative evidence from recent budget trends further confirms this financing gap, linking it to overcrowded classrooms, declining teacher quality, and regional disparities.

A second critical insight is the persistent mismatch between educational outputs and labour market needs. While tertiary enrolment has expanded, graduate unemployment continues to rise, indicating weak integration of manpower forecasting into education policy. Comparative studies from Ghana and Kenya suggest that aligning curricula with labour market priorities, alongside investments in technical and vocational education, can mitigate this mismatch. Nigeria's policy framework must therefore shift from enrolment expansion alone to labour market-responsive education.

Globalisation further complicates the policy environment. The increasing demand for digital literacy, STEM competencies, and entrepreneurship skills highlights the importance of forward-looking policy strategies. Yet Nigeria's limited institutional capacity restricts its ability to compete in the global knowledge economy. Addressing this requires targeted STEM investments, partnerships with private industry, and curricular reforms aligned with future workforce demands.

Finally, equity concerns remain central. Despite the Universal Basic Education Act's provisions, rural populations, low-income households, and marginalised groups face disproportionate barriers. Economic inefficiency results when large segments of the population are excluded from contributing to national productivity. Evidence from conditional cash transfers and school feeding programmes in sub-Saharan Africa shows that targeted interventions can improve both access and retention.

Taken together, these findings suggest that Nigeria's education reforms must move beyond rhetorical commitments toward a resource-alignment model. This model integrates three key elements: (i) increased and better-targeted funding toward teacher quality and rural infrastructure; (ii) systematic manpower forecasting to align curricula with labour market needs; and (iii) transparent accountability mechanisms to ensure efficient use of funds. Such an approach offers a more sustainable pathway for translating economic principles into practical, equitable, and globally competitive educational outcomes.

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6. Conclusion

This study examined the influence of the economics of education on educational policymaking in Nigeria, with particular attention to issues of funding, labour market alignment, globalisation, and equity. The analysis shows that while Nigerian policies articulate ambitious goals, such as universal access, improved quality, and human capital development, their implementation is constrained by persistent underfunding, weak institutional capacity, and misalignment between education outputs and economic needs. The findings confirm that the economics of education provides a valuable lens for understanding these challenges, offering tools for improving efficiency, effectiveness, and equity in education planning. However, the Nigerian experience also demonstrates that economic considerations must be complemented by political will, governance reforms, and inclusive strategies to ensure that policies translate into meaningful outcomes.

7. Recommendations

To strengthen the role of economics in educational policy and enhance the developmental impact of education, the following recommendations are proposed:

- i. Governments should move closer to the UNESCO benchmark of allocating 15–20% of national budgets to education. Beyond increased allocations, timely release and efficient utilisation of funds are essential to avoid implementation bottlenecks.
- ii. Stronger collaboration is needed between education providers, industries, and government agencies to ensure curricula reflect current and future workforce demands. Expanding technical and vocational education and training (TVET) will help address graduate unemployment and skills shortages.
- iii. Investments should focus on teacher training, professional development, and monitoring mechanisms to ensure that resources yield tangible improvements in learning outcomes.
- iv. Targeted interventions are needed to improve access for disadvantaged groups, including rural populations and low-income households. Policies such as conditional cash transfers, school feeding programmes, and rural infrastructure development can improve both access and retention.

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- v. Nigeria should prioritise STEM education, entrepreneurship training, and digital literacy to enhance competitiveness in the global knowledge economy. Partnerships with international organisations and the private sector can provide additional resources and expertise.
- vi. Transparent management of education resources and stronger accountability frameworks are critical to ensuring that policies deliver intended outcomes. This includes better monitoring and evaluation systems at federal, state, and local levels.

While the economics of education highlights the central role of efficiency, effectiveness, and equity in shaping education policy, Nigeria's experience demonstrates that sustained investment, institutional reform, and inclusive strategies are equally necessary. By integrating economic principles with broader governance and equity considerations, Nigeria can move closer to achieving an education system that supports national development and global competitiveness.

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