

**AN ECONOMIC ANALYSIS OF POVERTY, INEQUALITY AND FUTURE
OF MILLENNIUM DEVELOPMENT GOALS IN NIGERIA**

BELLO MALAM ALI

**DOCTOR OF PHILOSOPHY
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**AN ECONOMIC ANALYSIS OF POVERTY, INEQUALITY AND
FUTURE OF MILLENNIUM DEVELOPMENT GOALS IN
NIGERIA**

**A Thesis Submitted to the College of Arts and Sciences
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By

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ABSTRACT

There is daunting challenges and pessimism of achieving the millennium development goals (MDGs) especially in developing countries such as Nigeria. The study on economic analysis of poverty, inequality and future of millennium development goals in Nigeria attempted quantitatively the forecasting of the future possibilities of Nigeria achieving the millennium development goals by 2015 and 2020. It further, evaluated millennium development goals progress in the country. Also, the work examined the probabilistic relationship of poverty and inequality to millennium development goals. The work is significant for development planning, economic forecasting, policy evaluation, program analysis and basis for policy formulation, especially at this time when there is still years to make positive adjustments. The methodologies used are forecasting models and applied econometric techniques to development economics. The former include three sophisticated models; Trend regression, Holt's exponential smoothing and Box-Jenkins methods as well as composite indices, while the latter comprise of; fixed-effects, random-effects, pooled least square, weighted least square, probit and logit models. Although previous empirical studies were limited in analyzing few MDG indicators, relied heavily on naïve projections and pro-poor programs evaluation have been neglected as well as probabilistic relationship between inequality and millennium development goals. In this study however, all these were overcome to some extent. Results of the main findings revealed that, millennium development goals are not achievable by 2015 and 2020 in Nigeria under the current trends as the models suggested. Nevertheless, there will be aggregate progress over the forecast period. Moreover, poverty and inequality are both rising as the models indicated, implying that these may derail the achievement of millennium development goals. The original contributions of this research among others, includes; extending MDG theory analysis to more indicators, application of three forecasting techniques into MDG theory, extending Kuznets' hypothesis testing to country-wide panel data analysis, in an attempt to understand the dynamism of MDGs, applied econometric models were developed and operationalized. Conclusively, the study contributes to practice by extending MDG composite index and originated Nigerian MDG composite indices.

ABSTRAK (BAHASA MALAYSIA)

Terdapat pelbagai cabaran dan pesimisme yang melambatkan pencapaian matlamat pembangunan milenium terutamanya di negara-negara sedang membangun seperti Nigeria. Kajian tentang analisis ekonomi ke atas kemiskinan, ketidaksamarataan, dan masa depan bagi matlamat pembangunan milenium di Nigeria cuba meramal secara kuantitatif bagi kemungkinan pada masa hadapan untuk Nigeria mencapai matlamat pembangunan milenium pada tahun 2015 dan 2020. Ia turut menambah penilaian perkembangan matlamat pembangunan milenium negara. Kajian ini turut meneliti kemungkinan perhubungan antara kemiskinan dan ketidaksamarataan terhadap matlamat pembangunan milenium. Kajian ini signifikan bagi perancangan pembangunan, peramalan ekonomi, penilaian polisi, analisis program dan asas bagi pembentukan polisi, terutamanya pada masa kini ketika ia masih mengambil masa bertahun-tahun bagi membuat pengubahsuaian yang positif. Metodologi-metodologi yang digunakan adalah model-model ramalan dan teknik aplikasi ekonometrik ke atas ekonomi pembangunan. Yang terdahulunya melibatkan tiga model sofistikated; regresi tren, pelicinan eksponen Holt, dan kaedah Box-Jenkins serta indeks komposit, manakala yang seterusnya terdiri daripada; kesan-kesan tetap, kesan-kesan berubah, kuadrat terkecil terkumpul, kuadrat terkecil tertimbang, serta model logit dan probit. Walaupun kajian empirikal sebelum ini terhad kepada menganalisa hanya sedikit petunjuk-petunjuk MDG, terlalu bersandarkan pada unjuran yang naif dan pengabaian penilaian program-program pro-kemiskinan serta ketiadaan yang ketara akan kemungkinan perhubungan di antara ketidaksamarataan dan matlamat pencapaian millennium, namun dalam kajian ini, semua ini diatasi sehingga ke suatu tahap tertentu. Keputusan bagi penemuan utama mendedahkan bahawa, matlamat pembangunan kemakmuran tidak boleh dicapai pada 2015 dan 2020 di Nigeria di bawah tren semasa seperti yang dicadangkan oleh model. Walau bagaimanapun, akan adanya perkembangan keseluruhan sepanjang tempoh yang diramalkan. Tambahan pula, peningkatan kemiskinan dan ketidaksamarataan seperti yang ditunjukkan oleh model, mencadangkan ia mungkin memesongkan pencapaian matlamat pembangunan milenium. Sumbangan asal kajian ini di antara yang lain termasuklah; penambahan analisis teori MDG kepada lebih banyak petunjuk, pengaplikasian tiga teknik ramalan ke dalam teori MDG, peluasan ujian hipotesis Kuznets kepada analisis panel data seluruh negara, pembangunan dan pengoperasian model aplikasi ekonometrik dalam percubaan untuk memahami kedinamikan MDG. Yang pastinya, kajian ini menyumbang untuk pengamalan dengan memperluaskan indeks komposit MDG dan dalam pembentukan indeks-indeks komposit bagi MDG Nigeria.

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DECLARATIONS

In accordance with conventional academic research ethics, I hereby declare that some parts of this thesis have been published in the following articles:

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ABBREVIATIONS

AFDB	African Development Bank
AU	African Union
BRICs	Brazil, Russia, India and China
CAPPA	Community Action Program for Poverty Alleviation
CEDAW	Convention on the Elimination of all forms of Discrimination Against Women
CBOs	Community Based Organizations
CDAs	Community Development Associations
CGS	Conditional Grants Scheme
DFID	Department for International Development
DRG	Debt Relief Gains
DSA	Development Studies Association
ECA	Economic Commission for Africa
ECOWAS	Economic Community of West African States
EU	European Union
FAO	Food and Agricultural Organization
FEAP	Family Economic Advancement Program
FOMWAN	Federation of Muslim Women's Associations in Nigeria
FSS	Financial System Strategy
GDP	Gross Domestic Product
IDRS	Integrated Disease Surveillance and Response
IMF	International Monetary Fund
JICA	Japanese International Cooperation Agency
MDGs	Millennium Development Goals
N-11	Next 11 countries like BRICs
NACCIMA	Nigerian Assoc. of Chambers of Commerce, industry, Mines & Agriculture
NALDA	National Agricultural Land Development Authority
NAPEP	National Poverty Eradication Program
NEEDS	National Economic Empowerment and Development Strategy
NEPAD	New Partnership for African Development
NESG	Nigerian Economic Summit Group
NGOs	Non-Government Organizations
NHIS	National Health Insurance Scheme
ODA	Official Development Assistance
PAP	Poverty Alleviation Program
PPP	Purchasing power parity
SSAP-MDGs	Senior Special Assistant to the President on MDGs
UN	United Nations
UNDP	United Nations Development Program
UNESCO	United Nations educational scientific and cultural organization
UNICEF	United Nations children's fund
USAID	United State Agency for International Development
VPF	Virtual Poverty Fund
WB	World Bank

CHAPTER ONE

GENERAL INTRODUCTION

1.1 Socio-Economic Background of Nigeria

Nigeria, geographically is located entirely in the tropics, it lies between latitudes $4^{\circ} 16'$ and $13^{\circ} 53'$ north of the equator and longitudes $2^{\circ}40'$ and $14^{\circ} 41'$ east of the Greenwich meridian. It is within the West African sub-region and borders Niger in the North, Chad in the North-East, Cameroon in the East and Benin in the West. To the South, is bordered by approximately 800 kilometers of the Atlantic Ocean, stretching from Badagry in the west to the Rio del Rey in the east (see NPC, 2004; Myers, 1989). Nigeria has a total land area of 923,768 square kilometers; it is the fourth largest country in Africa, with diverse climate and topography that exhibits a great variety of relief features.

After reading through massive literature on the history of Nigeria, one may say without controversy that, Nok people were the initial inhabitants, they were sparsely populated around Jos plateau where they grew food plants and rear animals, worked with tin and iron and were known for fine terra-cotta sculptures. According to <http://www.infoplease.com>, from 800 BC to 200 AD the Neolithic Nok culture (named for the town where archaeological findings first were made) flourished on the Jos plateau. The first important centralized state to influence Nigeria was Kanem Bornu which was founded in the 8th century, Hausa city-states in northern Nigeria were founded in the beginning of the 11th century and two prominent states in the southwest

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