

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

BELLO MALAM ALI

**DOCTOR OF PHILOSOPHY
UNIVERSITI UTARA MALAYSIA
2010**

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

**A Thesis Submitted to the College of Arts and Sciences
in Fulfilment of the Requirement for the Degree of
Doctor of Philosophy (Economics)
Universiti Utara Malaysia**

By

BELLO MALAM ALI

© Bello Malam Ali, 2010. All rights reserved.



Kolej Sastera dan Sains
(UUM College of Arts and Sciences)
Universiti Utara Malaysia

PERAKUAN KERJA TESIS / DISERTASI
(Certification of thesis / dissertation)

Kami, yang bertandatangan, memperakukan bahawa
(We, the undersigned, certify that)

BELLO MALAM ALI

calon untuk Ijazah PhD
(candidate for the degree of)

telah mengemukakan tesis / disertasi yang bertajuk:
(has presented his/her thesis / dissertation of the following title):

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

seperti yang tercatat di muka surat tajuk dan kulit tesis / disertasi.
(as it appears on the title page and front cover of the thesis / dissertation).

Bahawa tesis/disertasi tersebut boleh diterima dari segi bentuk serta kandungan dan meliputi bidang ilmu dengan memuaskan, sebagaimana yang ditunjukkan oleh calon dalam ujian lisan yang diadakan pada : **23 Ogos 2010.**

That the said thesis/dissertation is acceptable in form and content and displays a satisfactory knowledge of the field of study as demonstrated by the candidate through an oral examination held on:

August 23, 2010.

Pengerusi Viva:
(Chairman for Viva)

Lt. Kol. Prof. Dr. Abdul Razak Chik

Tandatangan
(Signature)

Pemeriksa Luar:
(External Examiner)

Assoc. Prof. Dr. Remali Yusoff

Tandatangan
(Signature)

Pemeriksa Dalam:
(Internal Examiner)

Assoc. Prof. Dr. Ahmad Sobri Jaafar

Tandatangan
(Signature)

Nama Penyelia/Penyelia-penyelia:
(Name of Supervisor/Supervisors)

Assoc. Prof. Dr. Roslan Abdul Hakim

Tandatangan
(Signature)

Tarikh:

(Date) **August 23, 2010**

ADMISSION

“I hereby verify that this thesis is my own original work except for those reviews for which I have discussed the sources”.

23rd August, 2010

**Bello Malam Ali
(Matric: 91486)**

PERMISSION TO USE

In presenting this thesis in fulfilment of the requirement for a postgraduate degree from Universiti Utara Malaysia, I agree that the Universiti Library may make it freely available for inspection. I further agree that permission for copying of this thesis in any manner, in whole or in part, for scholarly purposes may be granted by my supervisor, Prof. Dr. Roslan Abdul Hakim, or in his absence, by the Dean of Research and Graduate Studies. It is understood that any copying or publication or use of this thesis or parts thereof for financial gain shall not be allowed without my written permission. It is also understood that due recognition shall be given to me and to Universiti Utara Malaysia for any scholarly use which may be made of any material from my thesis.

Request for permission to copy or to make other use of the materials in this thesis, in whole or in part, should be addressed to:

Dean of Research and Graduate Studies

UUM College of Arts & Sciences

Universiti Utara Malaysia

06010 UUM Sintok

Kedah Darul Aman

Malaysia

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.

ACKNOWLEDGEMENTS

In the name of Allah, most Gracious, most Merciful. Praise be to Allah, the cherisher and sustainer of the world, glory to Him in whose hands is dominion of all things, and peace be upon prophet Muhammad (SAW).

I wish to express my propound gratitude to my supervisor, Prof. Roslan Abdul Hakim for his expertise in guiding and directing this research from inception to its logical conclusion. His superb supervision, thought provoking questions, tactful, constructive criticisms and teachings has enriched and sharpened my research skills paving way to the production of this doctorate thesis. In addition, his challenging publications requirement has significantly improved the thesis quality. The feedbacks and comments we received from reviewers were encouraging and have helped tremendously.

I would like to express my utmost appreciation to the distinguish panel members of my thesis advisory committee; Prof. Nor Aznin Abu Bakar, Prof. Jamal Ali, Prof. Ahmad Sobri Jaafar, Prof. Barudin Muhamad. I acknowledged our distinguished Professors of the Faculty of Economics, for their role in different capacities; Prof. Mohd Dan Jantan, Prof. Juzhor B. Jusoh, Prof. Zaini Abdul Karim, Prof. Fatimah Wati Ibrahim, Prof. Abdul Razak Chik and Prof. Jauhari B. Dahalan. Specifically, I am deeply indebted to Prof. Zaini Abdul Karim for his class in Applied Econometrics I attended and for responding to all my inquisitive questions. I appreciated Dr. Nor Azam Abdul Razak fruitful discussions and the entire members of staff of the Faculty of Economics whose names did not appear herein.

The insightful comments of Dr. Sudhakar Kota and Dr. Nizar Sahwneh (both from Skyline University, UAE) and Dr. Elsadig Musa Ahmed (Multimedia University Malaysia) after my paper presentation at the International conference on Business and Economic Research (ICBER) Sarawak, Malaysia is greatly acknowledged. Also, I wish to thank Murairwa Stanley, a fellow doctorate researcher for his helpful comments.

I am sincerely grateful to my family for their financial contribution to pursue a doctorate degree at Universiti Utara Malaysia. Similarly, the financial goodwill of Hajj Elmashat Essadq Abud and Prof. Rufa'i Ahmed Alkali is highly appreciated, Thanks to Dr. Kabiru M. Yakubu for his generosity. I thank Federal University of Technology Yola (FUTY) for granting me study leave.

I hereby dedicated this thesis to my biological father Late Alhaji Sa'idu Mohammed Alkali, mother Hajiya Hajara Mohammed, my daughters Ummuna Hauwa'u Bello, Zainab Bello and Amina Bello (who did not leave long to see the end of this research). The patience and perseverance of my wife Asmau Abubakar and her entire family is hereby acknowledged.

Moreover, I convey my gratitude to Mal. Abubakar M. Miyim for providing me with logistics during my field work in Nigeria and my journeys to Malaysia as well as flight bookings and to his friend Mal. Aminu Musa Chindo; Dr. Abdullahi M. Saddiq has played a significant supportive and academic counseling role; Dr. Shuaibu I. Mshelia and Dr. Mohammad Isa Yusuf (HOD Building) for their inspirational conversation on academic expectations of PhD and research ethics.

Thanks goes to Suleiman Gambiyo Purokayo for his marvelous collegiality during my leave. Thanks to Prof. Abdullahi Y. Ribadu, Prof. Bashir H. Usman, my Dean Prof. Kyari Mohd, Prof. Kevin N. Nwogu, to my fellow colleagues at Federal University of Technology Yola, namely; Dr. Olusegun A. Adewusi, Salihu H. Zumo, Tukur U. Ahmed, Yusuf Gabdo, Abba Mohd, Ahmed B. Bawa, I. J. Dabari, I. S. Alfred, Modu Barma, H. Muazu Dikko, Engr. Abdullahi Yemi, A. M. Tahir, Usman Bapetel, Hassan Musa and a host of others who have contributed in one way or the other.

My gratitude goes to Hajiya Amina J. Ibrahim, the Senior Special Assistant to the President on Millennium Development Goals, her directors and the entire MDG staff for their helpful discussions and for allowing me to have access to their publications. With many appreciation to the company of Nigerian students at Universiti Utara Malaysia; Dr. Aminu Ahmad (who has graduated), Shehu Inuwa Galoji, Ahmed Maiyaki, Abdul wahab Lawan, Suleiman Ahmed, Yahaya S. Ibrahim, Bashir M. Tsafe, Mustafa Daud, G. J. Rashed, I. Ekpe, and the entire Nigerian community in UUM. I sincerely thank Diana Nabila for translating the abstract to Bahasa Melayu.

Finally, I am particularly grateful to my Mother for her prayers on my successful completion of this study, to my elder brother Munir K. Aliyu and to his entire family as well as my elder sister and to her entire family, thanks to my uncle Malam Ali as well as Sajen Rabo for their assistance and prayers.

DECLARATIONS

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

1. Malam Ali Bello & Abdul Hakim Roslan (2010). “Has Poverty Reduced in Nigeria 20 Years After?” Published in *European Journal of Social Sciences*, 15 (1): 7 - 17. ISSN: 1450-2267.
2. Malam Ali Bello & Abdul Hakim Roslan (2010). “Application of Composite Indices to Nigeria’s Millennium Development Goals” Accepted in *Journal of Social and Policy Issues*, 5 (2): Forthcoming Publication.
3. Bello, Malam Ali & Roslan, Abdul Hakim (2010), “Future of Millennium Development Goals in Nigeria” Published in the Proceedings of the *International Conference on Business and Economic Research (ICBER)*, held on 15-16 March at Kuching, Sarawak – Malaysia, Organized by Global Research Agency. Paper No. 142. ISBN: 978-967-5705-00-7.
4. Bello, Malam Ali & Roslan, Abdul Hakim (2009). “Notes on Millennium Development Goals Progress in Nigeria” Published in *International Journal of Development Studies*, 4 (2): 91 - 99. ISSN: 1117-1669.
5. Bello, Malam Ali & Roslan, Abdul Hakim. “Thoughts on Millennium Development Goals in Nigeria: Progress and Lessons” – Text Book, forthcoming.

TABLE OF CONTENTS

TITLE PAGE	i
CERTIFICATION OF THESIS	ii
ADMISSION	iii
PERMISSION TO USE	iv
ABSTRACT (ENGLISH)	v
ABSTRAK (BAHASA MALAYSIA)	vi
ACKNOWLEDGEMENTS	vii
DECLARATIONS	ix
TABLE OF CONTENTS	x
LIST OF TABLES	xiii
LIST OF FIGURES	xiv
LIST OF ABBREVIATIONS	xv
CHAPTER ONE: GENERAL INTRODUCTION	
1.1 Socio-Economic Background of Nigeria	1
1.2 Problem Statement	8
1.3 Objectives of the Research	13
1.4 Research Hypotheses	13
1.5 Justification of the Study	14
1.6 Scope of the Study	17
1.7 Organization of the Study	18
CHAPTER TWO: LITERATURE REVIEW	
2.0 Introduction	21
2.0.1 Trends of Macroeconomic Variables in Nigeria	21
2.1 Concept of Poverty	28
2.1.1 Definition of the Poverty Line	34
2.1.2 The Concept of Absolute	35
2.1.3 The Concept of Relative	36
2.1.4 Poverty Line Setting in Nigeria	37
2.1.5 Global Poverty Line	39
2.2 Poverty Indices	39
2.2.1 Other Indices	43
2.2.2 Subjective Poverty Measurement	44
2.3 Poverty Programs in Nigeria	44
2.4 The Origin of Inequality Theory	47
2.4.1 Concept of Inequality	48
2.4.2 Poverty-Inequality	48
2.4.3 Globalization and Inequality	50
2.4.4 Growth, Poverty and Inequality	55
2.5 History of UN Development Targets	57
2.5.1 Concept of Millennium Development Goals	58
2.5.2 Overview of Global Millennium Development Goals	70

2.6 The Institution of MDG and its Policies in Nigeria	75
2.6.1 Background of Nigerian Millennium Development Goals	75
2.6.2 Nigeria's MDG status and Priorities for Development	86
2.6.3 MDGs Policies in Nigeria	91
2.7 Current Development Doctrine	94
2.8 Empirical Literature	96
2.9 Theoretical Frameworks and Hypotheses Development	111

CHAPTER THREE: RESEARCH METHODOLOGY

3.0 Introduction	124
3.1 Techniques of Empirical Strategy: Poverty and Income Inequality	125
3.1.1 Fixed, Random-effects, Pooled and Weighted Least Square	125
3.1.2 Probit and Logit Models	127
3.1.3 Fixed, Random-effects, Pooled and Weighted Least Square	129
3.1.4 Panel Data Sources and Methods	130
3.2 Methodological Issues of Prediction models	132
3.2.1 Assumptions	133
3.3 Prediction Models: Specifications	134
3.3.1 Trend Regression Model	135
3.3.2 Holt's Exponential Smoothing Model	136
3.3.3 Box-Jenkins Models	137
3.4 Definition, Sources and Measurement of Variables	138
3.5 MDG Composite Indicator	143
3.6 Chapter Summary	146

CHAPTER FOUR: POVERTY ANALYSIS

4.0 Introduction	147
4.1 The Poor: A Key Factor in Development	147
4.2 Poverty Trends in Nigeria	150
4.3 Empirical Results of Economic Analysis	155
4.4 Empirical Results of Probit and Logit Models	161
4.5 Summary of the Chapter	164

CHAPTER FIVE: INEQUALITY ANALYSIS

5.0 Introduction	165
5.1 The Nigerian Ethnic Society	166
5.2 Population and Aggregate Income	168
5.3 Income Inequality Trends in Nigeria	170
5.4 Kuznets Hypothesis Revisited in Nigeria	176
5.5 Empirical Results of Economic Analysis	177
5.6 Summary of the Chapter	181

CHAPTER SIX: FUTURE OF MILLENNIUM DEVELOPMENT GOALS IN NIGERIA	
6.0 Introduction	182
6.1 Presentation of Forecasts	186
6.1.1 Trend Regression Forecast	186
6.1.2 Holt’s Exponential Smoothing Forecast	191
6.1.3 Box-Jenkins’ Forecast	192
6.2 Benchmark of Millennium Development Goals	194
6.3 Models Prediction Compared	197
6.4 Composite Indices of Millennium Development Goals	201
6.5 Summary of the Chapter	211
CHAPTER SEVEN: THE MDGs: AFTER 2015 DEBATE	
7.0 Introduction	212
7.1 After 2015—The DSA Conference Deliberations	213
7.2 Future of Development Policy	215
7.3 Extended Predictions to 2020	220
7.4 Nigeria’s MDG Composite Indices 2016 – 2020	227
7.5 Recent Proposals for 2010 United Nations MDG Review	232
7.6 Summary of the Chapter	236
CHAPTER EIGHT: CONCLUSION & RECOMMENDATIONS	
8.0 Introduction	237
8.1 Summary of Research Findings	238
8.2 Implications of the Research	244
8.2.1 Theoretical Contributions	244
8.2.2 Methodological Contributions	247
8.2.3 Empirical Contributions	247
8.2.4 Regulatory and Policy Formulation Contributions	249
8.3 Limitations of the Study	251
8.4 Recommendations for Future Research	251
8.5 Concluding Remarks	252
REFERENCES	253
APPENDICES	
Appendix A: Panel Data Results	275
Appendix B: Panel Data Results	282
Appendix C: Regression Results	286
Appendix D: Holt’s Exponential Smoothing Grid Search	292
Appendix E: Box-Jenkins Results	297
Appendix F: To whom it may concern	337
Appendix G: To whom it may concern	338

LIST OF TABLES

Table 2.1A The MDG Challenge in Nigeria	67
Table 2.1B Goals to be Achieved by 2015	67
Table 2.2 The Eight MDGs and their respective Targets and Indicators	68
Table 2.3 Proportion of Population Living Below \$1 (PPP) per day	73
Table 2.4 Debt Relief Funds in 2006 Budget	79
Table 2.5 What Did the 2006 Debt Relief achieved?	80
Table 2.6 Debt Relief Funds in 2007 Budget	81
Table 2.7 Government Policies	92
Table 3.1 Summary of Variables & Data Sources	141
Table 3.2 Normalization Methods	145
Table 4.1 Incidence of Poverty in Nigeria	151
Table 4.2 National Poverty Incidence in Nigeria	153
Table 4.3 Nigeria's Poverty Incidence by Educational Groups	154
Table 4.4 Nigeria's Poverty Incidence by Occupation of Households	154
Table 4.5 Estimates of Poverty Equation	156
Table 4.6 Estimates of Poverty Equation	157
Table 4.7 Estimates of Income Equation	159
Table 4.8 Descriptive Statistics	162
Table 4.9 Probit and Logit Models for Panel Data	163
Table 5.1 Nigeria: Location of Ethnic Groups	167
Table 5.2 Aggregate Income, Real Growth Rate and Population Dynamics	169
Table 5.3 Percentage Share of Income of Selected Countries	171
Table 5.4 Inequality in Nigeria by Gini-coefficient	173
Table 5.5 Inequality in Geo-political zones of Nigeria	173
Table 5.6 Per Capita Expenditure by Region	175
Table 5.7 Nigeria: Mean Per Capital Expenditure	175
Table 5.8 Estimates of Income Inequality Equation	178
Table 5.9 Estimates of Income Inequality Equation	179
Table 6.1 MDG Forecast, Regression (Actual Predicted Values)	186
Table 6.2 MDG Forecast, Regression (Real Values)	190
Table 6.3 MDG Forecast, Holt's Model	192
Table 6.4 MDG Forecast, Box-Jenkins (Actual Predicted Values)	193
Table 6.5 MDG Forecast, Box-Jenkins Models (Real Numbers)	194
Table 6.6 Benchmark of Millennium Development Goals	195
Table 6.7 Models Prediction Compared, End-Point 2015	198
Table 6.8 Composite Table, Regression Results	203
Table 6.9 Composite Table, Holt's Model	204
Table 6.10 Composite Table, Box-Jenkins Models	205
Table 7.1 New Meta-Narratives	215
Table 7.2 MDG Forecast 2020, Regression (Actual Predicted Values)	220
Table 7.3 MDG Forecast 2020, Regression (Real Values)	221
Table 7.4 MDG Forecast 2020, Holt's model	223
Table 7.5 MDG Forecast 2020, Box-Jenkins (Actual Predicted Values)	224

Table 7.6 MDG Forecast 2020, Box-Jenkins Models (Real Numbers)	224
Table 7.7 MDG Benchmark	225
Table 7.8 Models Prediction Compared, End-Point 2020	226
Table 7.9 Composite Table, 2020 Regression Results	229
Table 7.10 Composite Table, 2020 Holt's Model	230
Table 7.11 Composite Table, 2020 Box-Jenkins Models	231

LIST OF FIGURES

Figure 2.1 Rate of Inflation	22
Figure 2.2 Unemployment Rate	23
Figure 2.3A Consumer Price Index 1985-2002	24
Figure 2.3B Consumer Price Index 2003-2006	24
Figure 2.4 Average Exchange Rate	25
Figure 2.5 Real GDP	26
Figure 2.6 Recurrent Expenditure	27
Figure 2.7 Capital Expenditure	27
Figure 4.1 Incidence of Poverty by Region in Nigeria	151
Figure 4.2 Population in Poverty	152
Figure 5.1 Nigeria's Income Distribution with Selected African Countries	171
Figure 5.2 Nigeria's Income Distribution with Malaysia, Brazil and UK	172
Figure 5.3 Trends in Income Inequality	174
Figure 5.7A Actual & Fitted cgin vs gdp	178
Figure 5.7B Actual & Fitted cgin vs gdp square	178
Figure 6a-d Compared Models	200
Figure 6e-f Compared Models	201
Figure 6g MDG Composite Indices, 2015	206
Figure 7.1 Proposed Channels of Distributing AIDs	218
Figure 7.2 MDG Composite Indices, 2020	232

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

The contents of
the thesis is for
internal user
only

REFERENCES:

- Aboyade, O. (1975), "On the Need for an Operational Definition of Poverty in the Nigerian Economy". In Proceedings of the NES Annual conference, pp. 25-42.
- Abu-Ghaida, D. (2004), The Costs of Missing the Millennium Development Goal on Gender Equity, *World Development*, 32 (7): 1075–1107.
- Acharya, S. (2004), Measuring and Analyzing Poverty with particular reference to Nepal *European Journal of Comparative Economics*, 1 (2): 195-215.
- Agénor, P.; Nihal, B.; Emmanuel, P. M. & Karim, E. A. (2005). Achieving the Millennium Development Goals in Sub-Saharan Africa: A macroeconomic Monitoring Framework, *World Bank Policy Research Working Paper*, 3750, October.
- Agénor, P.; Nihal, B.; Emmanuel, P. M. & Karim, E. A. (2006). Achieving the Millennium Development Goals in Sub-Saharan Africa: A Macroeconomic Monitoring Framework, *The World Economy*, 29 (11): 1519-1547.
- Ajakaiye, O. I. (1998), 'Conceptualization of Poverty in Nigeria'. CBN 7th Annual zonal Research Units Conference at Makurdi, 8th – 12th June.
- Alaba, O. A. & Alaba, O. B. (2009), Malaria in Rural Nigeria: Implications for the Millennium Development Goals, *African Development Review*, 21 (1): 973–985.
- Alarmgir, A. (1983), Poverty, Inequality and Social Welfare: Measurement, Evidence and Policy, *Bangladesh Economic Studies*, 3 (2): 40 – 45.
- Alderman, H. (2007), Improving Nutrition through Community Growth Promotion: Longitudinal Study of the Nutrition and Early Child Development Program in Uganda, *World Development*, 35 (8): 1376–1389.
- Alesina, A. & Perotti, R. (1996), Income Distribution, Political Instability and Investment. *The European Economic Review*, 40: 1203-28.
- Ahluwalia, M. S. (1976), Inequality, Poverty and Development, *Journal of Development Economics*, 3(4): 307-42.
- Aigbokhan, B. E. (2000), Poverty, Growth and Inequality in Nigeria: A case study. *African Economic Research Consortium (AERC), Research paper 102*, Nairobi, November.
- Aigbokhan, B. E. (2008), *Growth, Inequality and Poverty in Nigeria*, Prepared for United Nations Economic Commission for Africa (UNECA), ACGS/MPAMS Discussion Paper No.3, Addis Ababa, Ethiopia. February, 2008.

- Aitken, A. C. (1935), On least-squares and linear combination of observations, *proceedings of the Royal Society of Edinburgh*, vol.55, pp. 42-8.
- Ali, A.A.G. & Elbadawi, I. A. (2008), “Explaining Sudan’s Economic Performance”, In the Political Economy of Economic Growth in Africa, 1960-2000, vol. 2, country case studies (eds. Benno J. Ndullu, *et al.*), Cambridge University Press, Cambridge, U.K.
- Ali, A. G. (1997), “Dealing with Poverty and Income Distribution issues in Developing Countries: Cross regional experiences”. Paper presented at the AERC Biannual Research Workshop, Nairobi, December 1996.
- Aliyu, A. (2002), *NAPEP Implementation progress Report: Background, Structure, Requirements and Problems*. A Paper Presented at a one-day special Presidential Retreat for Permanent Secretaries, February. Pp. 4-6, 9 & 13.
- Allen, T. (2004), Introduction: Why don’t HIV/AIDS Policies Work? *Journal of International Development*, 16 (8): 1123–1127.
- Allen, T. & Heald, S. (2004). HIV/AIDS Policy in Africa: What Has Worked in Uganda and What Has Failed in Botswana? *Journal of International Development*, 16 (8): 1141–1154.
- Anand, S. & Kanbur, S.M.R. (1993), Inequality and Development: A critique, *Journal of Development Economics*, 41 (1): 19-43.
- Anand, S. & Sen, A. (2000), Human Development and Economic Sustainability, *World Development*, 28 (12): 2029-49.
- Annan, K. A. (2000), We the Peoples: The Role of the United Nations in the 21st Century, New York, United Nations, p. 77.
- Anyanwu, J.C.; Oyefusi, A.; Oaikhenan, H.; & Dimowo, F. A. (1997), *The Structure of The Nigerian Economy (1960-1997)*. 1st ed., Joanee educational publishers Ltd, Onitsha, Nigeria.
- Araar, A. & Timothy, A. T. (2006), “Poverty and Inequality Nexus: Illustrations with Nigerian Data”, Centre interuniversitaire sur le risqué, les politiques économiques et l’emploi (CIRPEE)”, Working paper 06-38, November, Quebec QC Canada.
- Asra, A. (2002), Poverty and Inequality in Indonesia, *Journal of the Asia Pacific Economy*, vol.5, pp. 91-111.
- Atkinson, A. B. (1983), Comparing Poverty Rates Internationally: Lessons from recent studies in Developing Countries’. *World Bank Economic Review*, 5 (1): 3-21.

- Baird, M. & Shetty, S. (2003). Getting How to Accelerate Progress toward the Millennium Development Goals. *Finance & Development* (December). New York: IMF. Pp. 14-19.
- Baltagi, B. H. (1995), *Econometric Analysis of Panel Data*, 1st ed., John Wiley & sons.
- Banerjee, A. V.; Benabou, R. & Mookherjee, D. (2006), *Understanding Poverty*. London: Oxford University Press.
- Baran, P. (1957), *The Political Economy of Growth*, Monthly Review Press, New York.
- Bardhan, P. (2006), The Global Economy and the Poor. In A. V. Banerjee; R. Benabou & D. Mookherjee (Eds.), *Understanding Poverty*. London: Oxford University Press. pp. 99-109.
- Barro, R. (2000), Inequality and Growth in a Panel of Countries, *Journal of Economic Growth*, 5: 5-32.
- Basu, K. (2006), Globalization, Poverty, and Inequality: What is the Relationship? What Can Be Done? *World Development*, 34 (8): 1361–73.
- Baker, D., Epstein, G. & Pollin, R. (1998), 'Introduction', in D. Baker, G. Epstein & R. Pollin (eds), *Globalization and Progressive Economic Policy*, Cambridge University Press, Cambridge.
- Belkacem, L. & Limam, I. (2004), Impact of Public Policies on Poverty, Income Distribution and Growth, *API Working paper No. 0401* (Kuwait: Arab Planning Institute).
- Bequele, A. & Van der Hoeven, R. (1980), Poverty and Inequality in Sub-Saharan Africa. *International Labour Review*, 119 (3): 381-92.
- Beyer, H., P. Rojas, & R. Vergara (1999), Trade Liberalization and Wage Inequality, *Journal of Development Economics*, 59: 103-124.
- Bhalla, S. (2002), Imagine there's No Country: Poverty, Inequality and Growth in the Era of Globalization, IIE (Washington: Institute for International Economics).
- Bigsten, A. & Shimeles, A. (2007), Can Africa Reduce Poverty by Half by 2015? *Development Policy Review*, 25 (2):147-166.
- Black, D. (1958), *The theory of committees and elections*. Cambridge, UK: Cambridge University Press.
- Black, R. & White, H. (2004), *Targeting Development: Critical Perspectives on the Millennium Development Goals*. London: Routledge.

- Blackwood, D. L. & Lynch, R. G. (1994), The Measurement of Inequality and Poverty: A policy maker's guide to the Literature, *World Development*, 22 (4): 567-578.
- Bloch, H. & D. Sapsford (1997), Some Estimates of Prebisch and Singer Effects on the Terms of Trade between Primary Producers and Manufacturers, *World Development*, 25 (11): 1873-1884.
- Box, George E. P. & Jenkins, Gwilym M. (1970), *Time Series Analysis: Forecasting and Control*. San Francisco: Holden-Day.
- Box, G. E. P. & Jenkins, G. M. (1976), *Time Series Analysis: Forecasting and Control*. Revised edition, Holden-day, San Francisco.
- Bourguignon, F. & C. Morrisson (2002), Inequality among World Citizens: 1820-1992. *American Economic Review*, 92 (4): 727-744.
- Bourguignon, F. & Sundberg, M. (2006), Constraints to achieving the MDGs with scaled-up Aid. UN/DESA Working paper N0. 15, March, <http://www.un.org/esa/desa/papers>.
- Bruno, M.; M. Ravallion, & L. Squire (1996), Equity and Growth in Developing Countries: Old and New Perspectives on the Policy Issues. Working Paper No. 1563, Washington, D.C., World Bank, http://econ.worldbank.org/files/451_wps1563.pdf.
- Buchanan, J. M. & Tullock, G. (1965), *The Calculus of Consent: Logical Foundations of Constitutional Democracy*. Ann Arbor, MI: University of Michigan Press.
- Budina, N.; Pang, G. & Wijnbergen, S. V. (2007), "Nigeria's Growth Record: Dutch Disease or Debt Overhang?" Policy Research Working Paper, June, World Bank, WPS 4256.
- Canagarajah, S.; Ngwafon, J.; & Thomas, S. (1997), "Evolution of poverty and welfare in Nigeria: 1982 – 1992". *World Bank Policy Research Working Paper*, No.1715, Washington, D. C.
- CBN (2006), Central Bank of Nigeria, *Statistical Bulletin*, vol. 17, December, 2006. Pp.63, 116, 128, 182, 191-192.
- CBN/World Bank (1999), Nigerian's Development Prospects: Poverty Assessment and Alleviation Study. *CBN Publication*, pp.59.
- Carey, K. J. (1978). The accuracy of estimates of earnings from naive models, *Journal of Economics and Business*, 30 (3): 182-193.
- Carver, R. H. & Nash, J. G. (2006). *Doing Data Analysis with SPSS Version 14*. CA: Thomson Higher Education, Belmont.

- Chakravarty, S. P. & Roslan, A. H. (2005), Ethnic Nationalism and income distribution in Malaysia. *The European Journal of Development Research*, 17 (2): 270-288.
- Chatfield, C. (1978). The Holt-Winters forecasting procedure, *Applied Statistics*, 27 (3): 264-279.
- Chatfield, C. & Prothero, D. L. (1973). Box Jenkins seasonal forecasting: Problems in a case study, *Journal of the Royal Statistical Society: Series A*, 136 (3): 295-352.
- Chen, B.L. (2003), An inverted-U relationship between inequality and long run growth, *Economics Letters*, 78 (2): 205-12.
- Chen, S.; Datt, G. & Ravallion, M. (2001), "POVCAL , A program for calculating Poverty Measures for grouped data, World Bank and Human Resource Division (Washington: The World Bank).
- Chen, S. & Ravallion, M. (2006), "China's (Uneven) progress against poverty", *Journal of Development Economics*, 82 (1): 1-42.
- Chen, S. & Ravallion, M. (2007), "Absolute Poverty Measures for the Developing World, 1981-2004". Policy Research Working Paper, April, World Bank, WPS 4411.
- Chen, S. & Ravallion, M. (2008), "The Developing World is Poorer than We Thought, But No Less Successful in the Fight against Poverty". Policy Research Working Paper, August, World Bank, WPS 4703.
- Chussodovsky, M. (1997), *The Globalisation of Poverty*, Zed Books, New York.
- Clemens, M. A.; Kenny, C. J. & Moss, T. J. (2007), The Trouble with the MDGs: Confronting Expectations of Aid and Development Success, *World Development*, 35 (5): 735-751.
- Coakes, J. S. (2005). *SPSS Analysis without Anguish: Version 12.0 for windows*. Singapore: John wiley & sons, Australia.
- Collier, P. (2007). *The Bottom Billion*. Oxford University Press: Oxford.
- Collopy, F. & Armstrong, J. S. (1992). Expert Opinions about extrapolation and the mystery of the overlooked discontinuities, *International Journal of Forecasting*, 8: 575-582.
- Commission for Africa (2005), *Our Common Interest: Report of the commission for Africa*, Department of International Development, London, March.

- Corden, W. M. (1987), 'Production and liberalization: A review of Analytical issues', *IMF Occasional papers*, No. 54.
- Corden, W. M. (1984), Booming Sector & Dutch Disease Economics: Summary and Consolidation', *Oxford Economic papers*, Vol. 36.
- Cowell, F. A. (2006), Inequality: measurement. LSE Suntory and Toyota international centres for Economics and related disciplines, research paper N0.DARP 86, August. Accessed from: <http://sticerd.lse.ac.uk/dps/darp/darp86.pdf>.
- Crotty, J., Epstein, G. & Kelly, P. (1998), 'Multinational Corporations and the Neo-liberal Regime', in D. Baker, G. Epstein & R. Pollen (eds), *Globalization and Progressive Economic Policy*, Cambridge University Press, Cambridge.
- Dalgaard, C. & Erickson, L. (2009), Reasonable Expectations and the First Millennium Development Goal: How Much Can Aid Achieve? *World Development*, 37 (7): 1170-81.
- Datt, G. (1998), "Computational tools for poverty measurement and analysis", food consumption and nutrition division (FCND), Discussion paper N0. 50, International food policy research institute, Washington, D.C. 20006 USA, October, 1998, pp.14.
- Datt, G. & M. Ravallion (1992), "Growth and Redistribution Components of changes in Poverty Measures: A decomposition with applications to Brazil and India in the 1980's". *Journal of Development Economics*, 38:275-295.
- Deininger, K. & Squire, L. (1996), "New ways of looking at old issues: inequality and Growth", *Journal of Development Economics*, 57 (2): 259-287.
- DFID (2004), The Challenge: Nigeria's Poverty Reduction Strategy-NEEDS and SEEDS. Pp.3, 5, 6, 47.
- Dollar, D. (2008), Poverty, Inequality and Social Disparities during China's Economic Reform, *Policy Research Working Paper*, February, World Bank, WPS4253.
- Dollar, D. & Kraay, A. (2001), Trade, Growth and Poverty, Development Research Group, The World Bank.
- Dollar, D. & Kraay, A. (2002), Growth is Good for the Poor, *Journal of Economic Growth*, 7: 195-225.
- Doss, C.; Grown, C.; & Deere, C. D. (2008), "Gender and Asset Ownership: A Guide to Collecting Individual-Level Data". Policy Research Working Paper, August, World Bank, WPS4704.

- Duflo, E., & Kramer, M. (2003), 'Use of Randomization in the Evaluation of Development Effectiveness', paper prepared for the World Bank Operations Evaluation Department Conference, World Bank: Washington DC.
- Easterly, W. (1999), Life During Growth, *Journal of Economic Growth*, 4: 239-276.
- Easterly, W. (2007). The White Man's Burden. Penguin: London.
- Easterly, W. (2009). How the Millennium Development Goals are unfair to Africa, *World Development*, 37 (1): 26-35.
- Eastwood, R. & Lipton, M. (1999), The impact of changes in human fertility on poverty. *Journal of Development studies*, 36:1-30.
- Edmonds, E. V. & Schady, N. (2008), "Poverty Alleviation and Child Labor". Policy Research WP, Aug, World Bank, WPS4702. Impact Evaluation Series No.24.
- Edwards, S. (1980), 'Coffee, money and inflation in Columbia', *World Bank Development*, Vol.12.
- Edwards, S. (1997) "Trade Policy, Growth, and Income Distribution" *American Economic Review*, 87 (2): 205-210.
- Ekpo, A. H. & Umoh, O. J. (2008), "An overview of the Nigerian Economic Growth and Development", accessed via <http://www.onlinenigeria.com/economics/> Tuesday, October, 14, 2008.
- Elijah, O. A. & Uffort, L. (2007), Comparative Analysis of the relationship between Poverty and Underground economy in the highly developed, transition and developing countries. Accessed Online at <http://mpira.ub.uni-muenchen.de/2054/MPRA Paper No. 2054>, posted 07. November 2007 / 02:11
- Eric, Doviak (2008), A Contribution to the Theory of Income Inequality. May 29, Electronic copy available at: <http://ssrn.com/abstract=1131703>.
- Evans, D. J. (2008), *How to Generate a Lorenz Curve and Gini Coefficient*. Center for Urban Simulation and Policy Analysis, University of Washington, Seattle Washington 98195, USA. July 15, 2008.
- Estudillo, J. P.; Sawada, Y.; & Otsuka, K. (2008), Poverty and Income Dynamics in Philippine Villages, 1985–2004, *Review of Development Economics*, 12 (4): 877–890.
- Eswaran, M. (2006), Fertility in Developing Countries. In A. V. Banerjee; R. Benabou & D. Mookherjee (Eds.), *Understanding Poverty*. London: Oxford University Press. Pp.145.

- Fay, M.; Leipziger, D. & Wodon, Q. (2005), Achieving Child-Health-Related Millennium Development Goals: The Role of Infrastructure, *World Development*, 33 (8): 1267–1284.
- Feenstra, R. C. & G. H. Hanson (1997), Foreign Direct Investment and Relative Wages: Evidence from Mexico's Maquiladoras, *Journal of International Economics*, 42: 371-94.
- Fennell, S. (2008). What are the Rules and Rubrics for Ensuring International Development in the 21st Century? An Inter-Disciplinary Perspective, Paper prepared for DSA Conference, London.
- Ferreira, F. H. G. & Gignoux, J. (2008), “The Measurement of Inequality of opportunity: Theory and an application to Latin America”. Policy Research Working Paper, July, World Bank, WPS 4659.
- Ferreira, F. H. G. & Ravallion, M. (2008). “Global Poverty and Inequality: A Review of the Evidence”. Policy Research Working Paper, May, World Bank, WPS4623.
- Ferreira, F. H. G. & Schady, N. (2008), “Aggregate Economic Shocks, Child Schooling and Child Health”. Policy Research Working Paper, August, World Bank, WPS4701.
- Fields, G. S. (1997), Poverty, inequality and economic well-being: African economic growth in comparative perspective, *African Economic Research Consortium (AERC)*, Kampala, Uganda, August, 1997.
- Figini, P. & Santarelli, E. (2006), “Openness, Economic Reforms and Poverty: Globalization in the Developing Countries”, *Journal of Developing Areas*, 39 (2): 129-151.
- Findlay, R. (1981), 'The Fundamental Determinants of the Terms of Trade', in S. Grassman & E. Lundberg (eds), *The World Economic Order: Past and Prospects*, St Martin's Press, New York.
- Frank, A.G. (1969), 'Capitalism and Underdevelopment in Latin America', *Monthly Review Press*.
- Fransman, F.; MacDonald, A. L.; Donnell, I. M. & Pons-Vignon, N. (2004), “Public Opinion Polling and the Millennium Development Goals” OECD Development Centre working paper N0. 238. DEV/DOC(2004)07.
- Forbes, K. (2000), A Reassessment of the Relationship between Inequality and Growth, *American Economic Review*, 90: 869-886.
- FOS (1999), Federal Office of Statistics, ‘poverty incidence by states including FCT (1980-1996).

- FOS (2000), Federal Office of Statistics: Poverty Profile for Nigeria: 1980 – 1996, in draft national policy on poverty eradication
- Foster, K.; Greer, J.; & Thorbecke, E. (1984), A Class of Decomposable Poverty Measures, *Econometrika*, 52:761-766.
- FRN (2007), Federal Republic of Nigeria official Gazette, 2006 National Population Census, Vol. 94, No.24. 15th May, published by The Federal Government Printer, Lagos, Nigeria. FGP 71/52007/2,500(OL24).
- Fukuda-Parr, S. (2004), The Millennium Development Goals: The Pledge of World Leaders to end Poverty will not be met with Business as usual. *Journal of International Development*, 16 (7): 925–932.
- Gardner, Everette S. (1985), Exponential smoothing: The State of the Art, *Journal of Forecasting*, 4 (1): 1-28.
- Gardner, Everette S. & Dannenbring, David G. (1980), Forecasting with Exponential Smoothing: Some Guidelines for Model Selection, *Decision Sciences*, 11 (2), 370-383.
- Gillespie, N. (1990), Selected World Bank Poverty Studies: A summary of approaches, coverage and finding. *World Bank*, WPS 552: 1-79.
- Gingrich, C. D. (2000). “The Impact of Globalization on Low-Income Countries: What is the Evidence?” Mennonite Central Committee (MCC) Occasional Paper N0.31, September 2003. www.mcc.org
- Goldman Sachs (2007a). *BRICs and Beyond*, Goldman Sachs Global Economic Research, the Goldman Sachs Group, inc. July 25, 2007, p. 158.
- Goldman, Sachs (2007b). Global Economic Papers N0: 153, *The N-11: More than an Acronym*. March, 28. Pp. 1-24.
- Grosse, M.; Harttgen, K.; & Klasen, S. (2006). Measuring Pro-Poor Progress towards the Non-Income Millennium Development Goals, UNU-WIDER Research Paper No. 2006/38.
- Grosse, M.; Harttgen, K.; & Klasen, S. (2008). Measuring Pro-Poor Progress in Non-Income Dimensions, *World Development*, 36 (6): 1021–1047.
- Grosh, M. E. & Glewwe, P. (1995), “A Guide to Living Standards Measurement Study Surveys and their Data Sets”. LSMS Working Paper No. 120, September, The World Bank, Washington, D. C.

- Grusky, D. & R. Kanbur (2004), "Conceptual Ferment in Poverty and Inequality Measurement: The View from Economics and Sociology". Paper presented at a conference on '*Conceptual Challenges in Poverty and Inequality*' at Cornell University.
- Gujarati, D. N. & Porter, D. C. (2009), *Basic Econometrics*. McGraw Hill, Singapore, 5th ed. P. 776-7.
- Gulrajani, N. (2008). Development Futures: What Role for Development Management? Paper prepared for DSA Conference, London.
- Gwatkin, D. R. (2002), Who would gain most from efforts to reach the millennium development goals for health? An inquiry into the possibility of progress that fails to reach the poor. HNP Discussion paper, December, IBRD/World bank, Washington, DC.
- Gwynne, R.N. (1996), 'Trade and Developing Economies', in P.W. Daniels & W.F. Lever (eds), *The Global Economy in Transition*, Addison Wesley Longman Limited, Harlow.
- Haddad, L. (2008). Development Narratives: Recent Trends and Future Needs. Institute of development studies (IDS) in Focus 3. IDS: Brighton.
- Handoussa, H. (2009), Lessons from the MDGs in Africa, *African Development Review*, 21 (2): 213–223.
- Harberger, A. C. (1983), Dutch Disease: How much Sickness? How much Boom? *Resources and Energy*, Vol. 5.
- Harberler, G. (1968), "Comparative Advantage, Agricultural Production and International Trade", in J.D. Theberge (ed.), *Economics of Trade and Development*, John Wiley and Sons, Inc., New York.
- Harberler, G. (1988), *International Trade and Economic Development*, International Centre for Economic Growth, San Fransisco.
- Harrison, A. & G. Hanson (1999), Who Gains from Trade Reform? Some Remaining Puzzles, *Journal of Development Economics*, 59: 125-154.
- Hashim, S. M. (1998), *Income Inequality and Poverty in Malaysia*. Rowman & Littlefield publishers, inc, Maryland, USA.
- HDI (2008 Table), *Human Development Index*, United Nations Development Program.
- Hickey, S. (2005). The Politics of Staying Poor: Exploring the Political Space for Poverty Reduction in Uganda, *World Development*, 33 (6): 995–1009.

- Hicks, N. & Streeten, P. (1979), "Indicators of Development: The search for a Basic Needs Yardstick". *World Development*, Vol. 7.
- Hillebrand, E. (2008), The Global Distribution of Income in 2050, *World Development*. 36 (5): 727–740.
- Holt, C. *et al* (1960), *Planning production, inventories, and work force*, Prentice-Hall, Englewood cliffs, N.J.
- IBRD/World Bank (2007), World Development Report, Agriculture for Development. The World Bank, Washington, D. C.
- ILO (1976), Employment, growth and basic needs: A-one world problem, International Labour Organization, Geneva.
- ILO (1981), "First thing first: Meeting the basic needs of the people of Nigeria", in jobs and skills programmes for Africa, Addis Ababa.
- Iniodu, P. U. (1997), Poverty Reduction in Nigeria: Participatory Rural Appraisal (PRA) Strategy. *The Nigerian Journal of Economics and Social Studies*, Vol. 39, No. 3.
- Jacob, I. (2005), "Modelling PRSP II & Poverty Reduction in Mozambique Local Development: Econometric Analysis of factors determining millennium development goals by 2015". UNDP/UNCDF Mozambique, Working paper N0. 6, November.
- Kakwani, N. C. (1980), On a Class of Poverty Measures, *Econometrica*, 48 (2): 437-46.
- Kakwani, N. C. (1997), "On Measuring Growth and Inequality Components of changes in Poverty with Application to Thailand", Discussion paper 97/16, The university of New South Wales.
- Kakwani, N. C. & Podder, N. (1976), Efficient Estimation of the Lorenz Curve and Associated Inequality Measures from Grouped Observations, *Econometrica*, 44 (1): 137-148.
- Kolenikov, S. & Shorrocks A. (2003), "A Decomposition Analysis of Regional Poverty in Russia" UNU/WIDER Discussion paper No. 2003/741.
- Krugman, P. (1990), *Rethinking International Trade*, MIT Press, Cambridge, Massachusetts.
- Klasen, S. (2008). Economic Growth and Poverty Reduction: Measurement Issues using Income and Non-Income Indicators, *World Development*, 36 (3): 420–445.
- Kuznets, S. (1955), 'Economic Growth and Income Inequality'. *America Economic Review*, 45 (1): 1-28.

- Leontief, W. W. (1951), *The Structure of American Economy, 1919-1939*, Oxford University Press, New York.
- Levine, R. A. (1966), *Dreams and Deeds: Achievement Motivation in Nigeria*. The University of Chicago press, Chicago Illinois.
- Li, H. & Zou, H. (1998), Income Inequality is not harmful for Growth: Theory and Evidence, *Review of Development Economics*, 2: 318-334.
- Li, H.; L. Squire & H. Zou (1998), Explaining International and Intertemporal Variations in Income Inequality, *The Economic Journal*, 108: 26-43.
- Lindauer, D. L. & Pritchett, L. (2002), 'What's the Big Idea? The Third Generation of Policies for Economic Growth', *Economia* 3(1): 1-39.
- Lockwood, M. (2005). Will a Marshall plan for Africa Make poverty history? *Journal of International Development*, 17 (6): 775–789.
- Lopez, J. H. & Perry, G. (2008), *Inequality in Latin America: Determinants and Consequences*, Policy Research Working Paper, February, World Bank, WPS4504.
- Luo, X. and Zhu, N. (2008). Rising Income Inequality in China: A Race to the Top, *Policy Research Working Paper*, August, World Bank, WPS4700.
- Lustig, N. (2008). *The MDGs as a Policy Tool: The Challenges Ahead*. In J. Cockburn, & M. Valdivia, (Eds.), *Reaching the MDGs: An International Perspective* Peru: Poverty and Economic Policy (PEP) Research network, pp. 27-50.
- Lutz, M. (1999), A General Test of the Prebisch-Singer Hypothesis, *Review of Development Economics*, 3 (1): 44-57.
- Malthus, T. (1798), "An Essay on the Principle of Population as it Affects the Future Improvement of Society, accessed via <http://www.esp.org/>.
- Maizels, A. (2003), 'The Role of the Commodity Sector', in J. Toye (ed.), *Trade and Development Directions for the 21st Century*, Cheltenham, UK.
- McConnell, C. R. (1969), *Economics: principles, problems and policies*. McGraw Hill Book Company, New York.
- MDG Office (2008a), *Millennium Development Goals Nigeria: Information kit* (January) [Brochure]. Abuja: Published by Office of the Senior Special Assistant to the President on Millennium Development Goals, Nigeria. Pp. 1-16.

- MDG Office (2008b), *Seven-Point Agenda & MDGs Nigeria* (March) [Brochure]. Abuja, Nigerian Capital Territory: published by Federal Republic of Nigeria. Pp. 1-4.
- MDG Office (2008c), *MDGs Nigeria: Mid-Point Assessment- An overview* (September) [Brochure]. Abuja, Nigerian Capital Territory: Published by OSSA-MDGs, Nigeria, Pp.1-20.
- MDG Office (2008d), *The Story of OPEN: Overview of Public Expenditure in NEEDS*, (2nd edition) [Brochure]. Abuja, The Presidency, Government of Nigeria. Printed by Blake & Harper Nigeria. Pp. 3-51.
- MDG Office (2008e), *Nigeria and MDGs: Putting People First*, (1st ed.)[Brochure]. The Presidency, State house, Abuja: Published by OSSA-MDGs, Nigeria, Pp.1-8.
- MDG Office (2009). *Communicating the MDGs* (February) [Brochure]. Abuja, Nigerian Capital Territory: Published by OSSA-MDGs, Nigeria. Pp. 2-24.
- Milanovic, B. (2002), True World Income Distribution: 1988 and 1993. First Calculations based on Household Surveys Alone. *Economic Journal*, 112 (476): 51-92.
- Milanovic, B.; Lindert, P. H. & Williamson, J. G. (2007). "Measuring Ancient Inequality". Policy Research Working Paper, November, World Bank, WPS 4412.
- Millennium Project (2005). *Investing in Development: A Practical Plan to Achieve Millennium Development Goals*, Report to the United Nations Secretary-General. London: Earthscan.
- Minoiu, C. & Reddy, S. G. (2008), Estimating Poverty and Inequality from grouped data: How well do parametric methods perform? Electronic copy available at: <http://SSRN.com/abstract=925969>.
- Morris, M. D. (1979), *Measuring the Condition of the World's Poor: The Physical Quality of Life Index*. New York: Pergamon Press.
- MQL (2002), *Malaysian Quality of Life, Kualiti Hidup Malaysia*, Economic Planning Unit, Prime minister's department, Malaysia. Percetakan Nasional Malaysia Berhad, Kuala Lumpur.
- Mubila, M. & Pegoue, A. (2008), Toward a Methodology for Computing a Progress Composite MDG Index. *The African Statistical Journal*, Vol. 7: November.
- Mueller, D. (1989), *Public Choice II*. Cambridge: Cambridge University Press.

- Muro, P. D.; Mazziotta, M.; Pareto, A. (2009), Composite Indices for Multidimensional Development and Poverty: An Application to MDG Indicators. Retrieved via www.fao.org/.../Paper_3_b2_DeMuro-Mazziotta-Pareto_Measuring_progress_towards_MDGs.pdf.
- Myers, R. A. (1989). *Nigeria: World Bibliographical series*, vol.100, pp.xix. England: Clio press Ltd.
- Myrdal, G. (1956), "Development and Under-Development", paper presented to National Bank of Egypt: Fiftieth Anniversary Commemoration Lectures, Cairo.
- Myrdal, G. (1957), *Economic Theory and Under-Developed Regions*.
- Nafziger, E. W. (1989), *Inequality in Africa: Political Elites, Proletariat, Peasants and the Poor*. Cambridge University Press.
- NAPEP (2001a), *National Poverty Eradication Programs: Conception, Implementation, Coordination and Monitoring*. Sid dwells printers, p.33.
- NAPEP, 2001b), *National Poverty Eradication Program: A Blue Print for schemes* (Revised edition) [Brochure]. Abuja, the Government of Nigeria, Publication. Pp.58-60.
- Narayan, D. & Petesch, P. (2002): *Voices of the Poor from Many Lands*. World Bank, New York.
- Narayan, D. ; Chambers, R. ; Shah, M. K. & Petesch, P. (2000), *Voices of the Poor: Can anyone hear us?* New York: Oxford University Press.
- Nardo, M.; M. Saisana; A. Saltelli; S. Tarantola; A. Hoffman & E. Giovannini, (2005), *Handbook on Constructing Composite Indicators: Methodology and User Guide*, OECD Statistics Working Paper. Paris: Organisation for Economic Co-operation and Development.
- Naschold, F. (2004), Growth, Distribution and Poverty Reduction: LDCs are Falling Further Behind, in A. Shorrocks & R. van der Hoeven (eds), *Growth, inequality and Poverty: Prospects for Pro-poor Economic Development*, Oxford: Oxford University Press.
- Nayyar, D. (2001), "Globalization: What Does it Mean for Development?" in K.S. Jomo & S. Nagaraj (eds), *Globalization versus Development*, Palgrave Publishers Ltd., Houndmills.
- NBS (2005), National Bureau of Statistics, *Poverty Profile for Nigeria* (March) [Brochure]. Abuja, Nigerian Capital Territory: Author.

- NEEDS (2004a), 'NIGERIA: National Economic Empowerment and Development strategy', National Planning Commission, Abuja, March, pp. 19.
- NEEDS (2004b), National Economic Empowerment and Development strategy, National Planning Commission, Abuja, pp. ix.
- Nelson, P. J. (2007), Human Rights, the Millennium Development Goals and the Future of Development Cooperation, *World Development*, 35 (12): 2041–55.
- Nigerian Economic Society (1975), *Poverty in Nigeria: proceedings of the 1975 Annual Conference of the Nigerian Economic Society*. Ibadan University Press.
- NPC (2004a), National Population Commission, Nigeria and ORC Macro. *Nigeria Demographic and Health Survey 2003*, Calverton, Maryland: NPC and Macro.
- NPC (2004b), National Planning Commission, Meeting every NEEDS, Abuja, Nigeria.
- NPC (2007), National Planning Commission, *Nigeria 2006: Millennium Development Goals Report*, (January) [Brochure]. Abuja, the Government of federal Republic of Nigeria, published by NPC, pp. 5-60.
- NPC (2008), National population commission, Abuja, Nigeria.
- NPPA (2000), National Policy on Poverty Alleviation, p.19.
- Nerlove, M. (2002). *Essays in Panel Data Econometrics*, 1st ed., Cambridge University press, UK.
- Obstfeld, M. (1998), 'The Global Capital Market: Benefactor or Menace?' *The Journal of Economic Perspectives*, 12 (4): 9-30.
- Odusola, A. F. (2001), Conceptual issues in poverty and measurement. Paper presented at the NCEMA Training programme on poverty alleviation policies and strategies. 15-26 October.
- OECD (2004), Public Opinion Polling and the Millennium Development Goals, France.
- Okoh, R. N. (1998), "The concept of poverty and its measurement". *Nigerian Journal of Economics and Social Studies*, 39 (2): 221-229.
- Okunmadewa, F. (1999), Overview of the Measurement of Poverty and Inequality, *Centre for Econometric & Allied Research*, University of Ibadan, Ibadan, Nigeria.
- Olson, M. (1965), *The logic of collective action*. Cambridge, MA: Harvard University Press.

- Osemwota, O. (1994), *Regional Economic Disparity and Conflict in Nigeria*, Omega Publishers, Benin.
- Ostrom, V. (1964), Developments in the 'no-name' fields of public administration. *Public Administration Review* 24 (1): 62-63.
- Ostrom, V. and Ostrom, E. (1971), Public choice: A different approach to the study of public administration. *Public Administration Review* 31 (2): 203-216, 205.
- Otite, O. (1990), *Ethnic Pluralism and Ethnicity in Nigeria*. Ibadan: Shaneson. Pp. 44–57.
- Oyetade, L. (2008), “Nigeria’s poverty level still high despite economic growth-IMF” Saturday Tribune newspaper, 16.02.2008.
<http://www.tribune.com.ng/16022008/news/news18.html>.
- Pakes, A. G. (1981), “On income Distributions and their Lorenz Curves”, Department of Mathematics Technical Report (Nedlands: University of Western Australia).
- Person, T. & Tabellini, G. (1994), Is Inequality harmful for Growth, *American Economic Review*, 84: 600-621.
- Porter, M. (1990), *The Competitive Advantage of Nations*, The Free Press, New York.
- Powers, D. A. & Xie, Y. (2000). *Statistical Methods for categorical Data Analysis*. New York, Academic press. Ch. 3, pp.41-85.
- Prebisch, R. (1950), “The Economic Development of Latin America and its Principle Problems”, *Economic Bulletin for Latin America* 7: 1-22, New York.
- Pritchett, L. (1997), Divergence, Big Time. *Journal of Economic Perspectives*, 11 (3): 3-17.
- Pritchett, L. (2006), “Who is not Poor? Dreaming of a World truly free of Poverty”, *The World Bank Research Observer*, 21 (1): 1-23.
- Putzel, J. (2004), The Global Fight Against AIDS: How adequate are the National Commissions? *Journal of International Development*, 16 (8): 1129–1140.
- Ravallion, M. (1997), Can High Inequality Countries Escape Poverty? *Economics Letters*, 56: 51-57.
- Ravallion, M. (2001), Growth, Inequality and Poverty: Looking Beyond Averages, *World Development*, 29 (11): 1803-1815.
- Ravallion, M. (2007). “How Relevant is targeting to the Success of an Antipoverty Program?” Policy Research Working Paper, November, World Bank, WPS4385.

- Ravallion, M. & Bidani, B. (1994), How robust is a poverty profile? *World Bank Economic Review*, 8 (1): 75-120.
- Ravallion, M. & Chen, S. (1997), What Can New Survey Data Tell Us About Recent Changes in Distribution and Poverty? *World Bank Economic Review*, 11 (2): 357-82.
- Ravallion, M.; Chen, S. & Sangraula, P. (2008). "Dollar a Day Revisited" Policy Research Working Paper, May, World Bank, WPS4620.
- Redding, S. & Venables, A. (2004), Economic Geography and International Inequality, *Journal of International Economics*, 63: 53-82.
- Redding, S. & Heuty, A. (2005), Achieving the Millennium Development Goals: what's wrong with existing analytical models? Updates of this paper will be made available on www.millenniumdevelopmentgoals.org/.
- Ricardo, N. P. T. (2007), Can a rise in income inequality improve welfare? Available online <http://www.ricardotruglia.com.ar>.
- Rifkin, J. (1996), 'New Technology and the End of Jobs', in J. Mander & E. Goldsmith (eds), *The Case Against the Global Economy*, Sierra Club Books, San Francisco.
- Robbins, D. & T.H. Gindling (1999), Trade Liberalization and the Relative Wages for More-Skilled Workers in Costa Rica, *Review of Development Economics*, 3 (2): 140-54.
- Roberts, J. (2005), Millennium Development Goals: Are International Targets now more credible? *Journal of International Development*, 17 (1): 113–129.
- Robinson, S. (1976), A Note on the U-Hypothesis Relating Income Inequality and Economic Development, *American Economic Review*, 66 (3): 437-440.
- Rodgers, H. R. (2000). *American Poverty in a New Era of Reform*. Published by M.E. Sharpe.
- Rodney, W. (1973), *How Europe Underdeveloped Africa*. Tanzania Publishing House and Bogle L'Ouverture Publications.
- Rodrik, D. (1998), *Globalization, social conflict and economic growth*. Oxford: Black well publishers Ltd, Cowley Road, pp.157-8.
- Rose, D. (2000). *Researching Social and Economic Change: The Uses of Household Panel Studies*. London: Routledge.

- Rostow, W.W. (1960), *The Stages of Economic Growth: A Non-Communist Manifesto*. Cambridge: Cambridge University Press.
- Rowntree, B. S. (1901), *Poverty; A case study of Town Life*. Macmillan, London.
- Sachs, J. (2005). *The End of Poverty: How we can make it happen in our lifetime*. Penguin: London
- Sachs, J. (2008). *Common Wealth*. Penguin: London.
- Sachs, J. (2001), The Strategic Significance of Global Inequality, *The Washington Quarterly*, 24 (3): 187-98.
- Sahn, D. E. & Stifel, D. C.(2003), Progress Toward the Millennium Development Goals in Africa, *World Development*. 31 (1): 23–52.
- Sala-i-Martin, X. (2002), The Disturbing 'Rise' of Global Income Inequality, National Bureau of Economic Research, Working Paper 8904, Cambridge, MA, available on-line: <http://www.nber.org/papers/w8904>.
- Schultz, T.P. (1998) "Inequality in the Distribution of Personal Income in the World: How it is Changing and Why" *Journal of Population Economics* 11 (3): 307-344.
- Sen A. K.(1976), Poverty: An Ordinal Approach to Measurement, *Econometrica*, 46:437-446.
- Sen, K. A. (1992), *Inequality re-examined*. Clarendon press, Oxford.
- Shorrocks, A. (1999), "Decomposition Procedures for Distributional Analysis: A unified Framework based on the Shapley value", Tech. rep., University of Essex.
- Singer, H. (1950), 'US Foreign Investment in Underdeveloped Areas: The Distribution of Gains between investing and borrowing countries', *American Economic Review*, 40 (2): 473-485.
- Soludo, C. C. (2007a), "Strategic Agenda for the Naira" Central Bank of Nigeria, Abuja; August 14, 2007.
- Soludo, C.C. (2007b). Nigeria's Financial System Strategy 2020 plan: Our Dream. *FSS 2020 International conference*, Abuja, Nigeria. Pp.1- 45.
- Son, H. H. & Kakwani, N. (2006), "Global Estimates of pro-poor Growth", UNDP- IPC Working Paper No. 31 (Brasilia: United Nations Development Program, International Poverty Center).

- Spilimbergo, A.; J. L. Londoño, & M. Székely (1999), Income Distribution, Factor Endowments and Trade Openness, *Journal of Development Economics*, 59: 77-101.
- Staelin, C.P. (1974), Theory of Autarkic Development: A critical review, *Foreign Trade Review*, 9 (4): 267-91.
- Stewart, F. & A. Berry (2000), Globalization, Liberalization and Inequality: Real Causes. *Challenge*, 43 (1): 44-92.
- Stolper, W. F. (1966), *Planning Without Facts*. Cambridge: Harvard University Press.
- Stolper, W. F. (1970), 'Social Factors in Economic Planning with Special Reference to Nigeria'. In C. K. Eicher & C. Liedholm, (Eds.), *Growth and Development of the Nigerian Economy*. East Lansing: Michigan State University, pp.221-66.
- Stolper, W. & P. Samuelson (1941), Protection and Real Wages, *Review of Economic Studies*, 9: 58-73.
- Streeten, P. (1974), 'World Trade in Agricultural Commodities and the Terms of Trade with Industrial Goods', in N. Islam (ed.), *Agricultural Policies in Developing Countries: Proceedings of a conference held by the International Economic Association at Bad Godesberg, West Germany*, Macmillan, London.
- Streeten, P. (1977). The Distinctive Features of Basic Needs Approach to Development, *International Development Review*, 19 (3): 8-16.
- Streeten, P. (1981), *Development Perspectives*, Macmillan, London.
- Streeten, P.; Burki, S. J.; Ul Haq, M.; Hicks, N.; & Stewart, F. (1981). *First thing first: Meeting basic human need in developing countries*. Oxford University Press. Pp. 38.
- Studenmund, A. H. (2001). *Using Econometrics: A practical Guide*, 4th ed., Addison Wesley, New York. Ch. 13 & 15.
- Sukiassyan, G. (2007), Inequality and Growth: What does the transition economy data say? *Journal of Competitive Economics*, 35: 35-56.
- Sumner, A. (2010). What should the 2010 UN MDG Review do? Retrieved on Saturday February 20, 2010 (at 3:26pm ahead of GMT by 8hrs), from <http://www.ids.ac.uk/go/news/what-should-the-2010-un-mdg-review-do>.
- Sumner, A. & Tiwari, M. (2009), After 2015: What are the ingredients of an 'MDG-PLUS' agenda for Poverty Reduction? *Journal of International Development*, 21 (6): 834-843.

- Sundrum, R.M. (1990), *Income Distribution in Less Developed Countries*. London: Routledge.
- Taylor, J. W. (2003), Exponential Smoothing With A Damped Multiplicative Trend. *International Journal of Forecasting*, 19: 715-725.
- Thomas, S. & Canagarajah, S. (2002), Poverty in a Wealthy Economy: The case of Nigeria, IMF Working paper, WP/02/114, July.
- Thorbecke, E. (2006). *The Evolution of the Development Doctrine, 1950-2005*. The World Institute for Development Economics Research (WIDER). Research Paper No. 2006/155 (December). Finland: WIDER.
- Timothy, G. (2009), 'We need N24 trillion to cut poverty by half-FG'. Leadership news paper, retrieved via <http://www.leadershipnigeri.com>. Friday, September 4, 2009 at 5:36:40 pm.
- Tullock, G. (1965), *The Politics of Bureaucracy*. Washington, DC: Public Affairs Press.
- Umo, J. U. (2007, October 23). *Moving Nigeria into the New Economy: A Human Capital Perspective*. Presidential Address to the 48th Annual Conference of Nigerian Economic Society held at Abuja, Pp. 6-10.
- United Nations (2000), Millennium Declaration, September, Retrieved via <http://www.un.org/millennium/declaration/ares552e.pdf>, p.5.
- United Nations (2002), 'Millennium Development Goals and The UN Role' in *Implementing the millennium declaration: fact sheet*, Published by the United Nations Department of Public Information – October 2002.
- United Nations (2003), *Indicators for monitoring the Millennium Development Goals*, New York. ST/ESA/STAT/SER.F/95. United Nations Publications.
- United Nations (2005), *The Millennium Development Goals Report 2005*, United Nations (New York).
- United Nations (2009a) country data, <http://mdgs.un.org/unsd/mdg/Data.aspx>.
- UNI-WIDER (2005), World income inequality database, V. 2.0a, June, 2005.
- United Nations (2009b), *The Millennium Development Goals Report 2009*, pp. 4-5.
- UNCTAD (2001), *Economic Development in Africa: Performance, Prospects and Policy Issues*, New York.
- UNCTAD (2002), *Trade and Development Report 2002*, UNCTAD/TDR/(2002), United Nations.

- UNCTAD (2008), UNCTAD handbook of statistics online, projection from 2010 -2015. <http://stats.unctad.org/Handbook/TableViewer/tableView.aspx?ReportId=1933>. Retrieved on 22 August, 2009.
- UNDP (1998), Nigeria Human Development Report, Lagos, P.13-16.
- UNDP (2003), *MDGs: A Compact among Nations to End Poverty. Human Development Report 2003*, New York: UNDP.
- UNFPA (2005), United Nations Population Fund, “*International Migration and The Millennium Development Goals*”, Selected Papers of the UNFPA Expert Group Meeting Marrakech, Morocco, 11-12 May 2005.
- UNI-WIDER (2005), World income inequality database, V. 2.0a, June, 2005.
- USAID (2004), Review of poverty assessment tools-implementation training materials, USAID Accelerated Microenterprise Advancement Project and Developing Poverty Assessment Tools Project (Washington: United States Agency for International Development).
- Vandemoortele, J. (2002). Are the MDGs feasible? *Mimeo*. New York: United Nations Development Programme Bureau for Development Policy Bureau.
- Vandemoortele, J. (2009), The MDG Conundrum: Meeting the Targets Without Missing the Point, *Development Policy Review*, 27 (4): 355-371.
- Vision Report (1997), *Report of the Vision 2020 Committee: Main Report* (September) [Brochure]. Abuja, Nigerian Capital Territory: Published by Economic Affairs Office, Federal Secretariat, The Presidency.
- Villasenor, J. A. & Arnold, B. C. (1989), Elliptical Lorenz Curves, *Journal of Econometrics*, 40: 327-338.
- Wade, R.H. (2001), The Rising Inequality of World Income Distribution, *Finance and Development*, 38 (4): 37-39.
- White, H. & Blöndal, N. (2007). Projecting Progress toward the Millennium Development Goals. United Nations University, World Institute for Development Economic Research (UNU-WIDER), Research paper N0.2007/47. <http://mpa.ub.uni-muenchen.de/5687/>.
- WIDER (2000), UNU/WIDER-UNDP World Income Inequality Database, v1.0 ed. (United Nations University/WIDER).
- William, H. Greene (2004), *Econometric Analysis*, 4th ed. Prentice Hall.

- Wooldridge, J. M. (2002). *Econometric Analysis of Cross Section and Panel Data*, 1st Edition, Cambridge, MA: MIT press.
- Wooldridge, J. M. (2009). *Introductory Econometrics: A Modern Approach*. South-western, Canada. 4th ed., pp. 380-6.
- World Bank (1996), Nigeria: Poverty in The Midst of Plenty the Challenge of Growth with Inclusion, 31 May, 2002. Report No. 14733-UNI.
- World Bank (1980), Poverty and Basic Needs. September, 1980.
- World Bank (1993), Poverty Reduction Handbook, The World Bank, Washington D.C.
- World Bank. (2000), World Development Report 2000/2001. Washington, D.C.: The World Bank.
- World Bank (2001a), Income Poverty: Recent Regional Trends. Accessed, August 3, 2004. <http://www.worldbank.org/poverty/data/trends/regional.htm>.
- World Bank (2001b), World Development Report. The World Bank, Washington, D. C.
- World Bank (2002). World Bank Group Work in Low-Income Countries under Stress: Task Force Report. 26903 (September). Washington: Author.
- World Bank (2005), *Millennium Development Goals: from consensus to momentum*, Global Monitoring Report 2005, World Bank (Washington DC).
- World Fact Book (2007), <https://www.cia.gov/library/publications/the-world-factbook/geos/ni.html>.
- Xavier Sala-i-Martin (2002), The World Distribution of Income (estimated from individual country distributions). NBER working paper series 8933. Retrieved from; <http://www.nber.org/papers/w8933>.
- Zhu, N. & Luo, X. (2008), "The Impact of Remittances on Rural Poverty and Inequality in China". Policy Research Working Paper, May, World Bank, WPS4637.
- Yamamura, E. & Shin, I. (2009), Effects of Income Inequality on Growth through Efficiency Improvement and Capital Accumulation, *International Economic Journal*, 23 (2): 237-58.