PRESENTATION OF THE RESULTS OF NIGERIA'S GDP REBASING / RE-BENCHMARKING EXERCISE, TRANSCORP HILTON HOTEL, ABUJA



MEASURING BETTER: REBASING / RE-BENCHMARKING OF NIGERIA'S GROSS DOMESTIC PRODUCT

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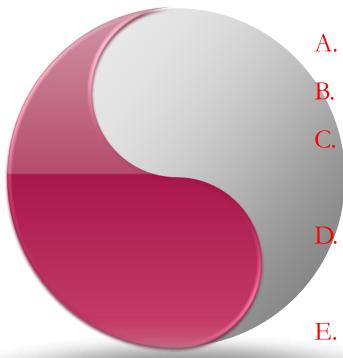
Abuja, NIGERIA.

6 April 2014





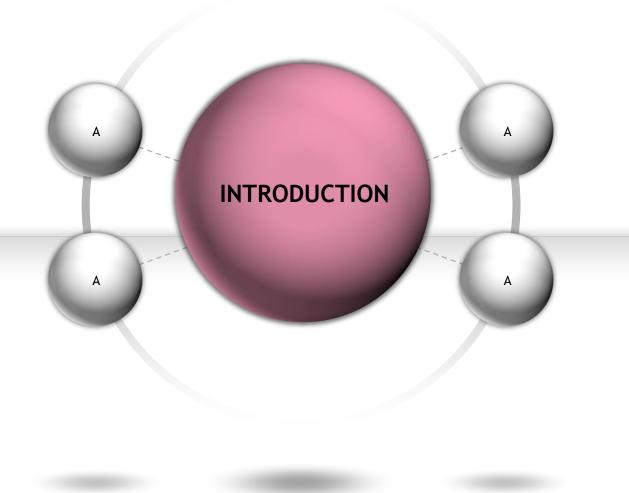




Introduction
What is GDP
Understanding GDP
Rebasing/Re-benchmarking
Results from the GDP rebasing/
re-benchmarking
Conclusion









- Sound data represent the key weapon in the battle against poverty" Tado Chiko, former President, Asian Development Bank
- "If you can't measure it, you can't manage it" Robert Kaplan

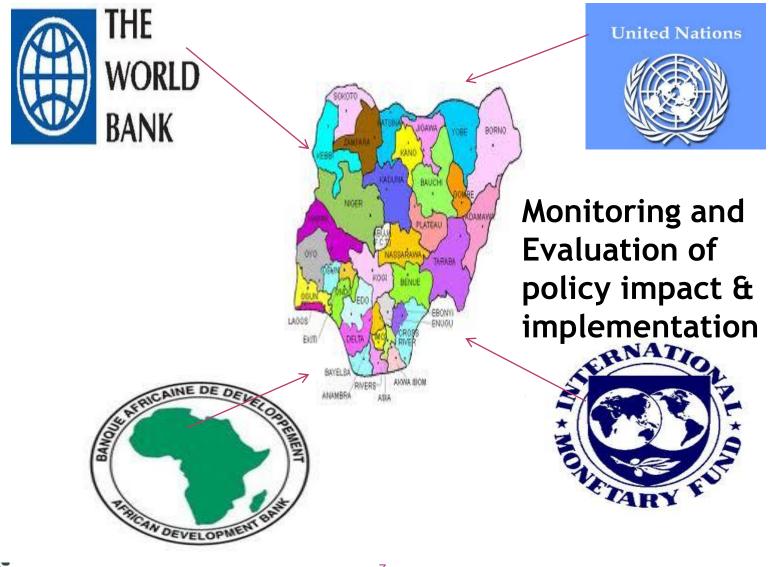
Good statistics allied to appropriate government policies can <u>change things radically</u> for the better." - Clare Short, former Secretary of State for International Development

These 3 quotations are pointers to what can be described as the key roles of data/statistics









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Business/investmen decision-making



Measuring governance and accountability

engendering public debate and

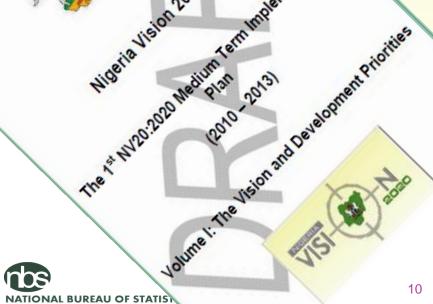
informing public choices

The & W20-2020 Medium Terminopenentation

Plan preparation, policy choice and programme design

1011-201

We have



WARNING!!!!

DON'T REPLACE DATA WITH IDEOLOGY "

Article by Emi Nakamura, Jon Steinsson and Nicolas Vincent, Bloomberg

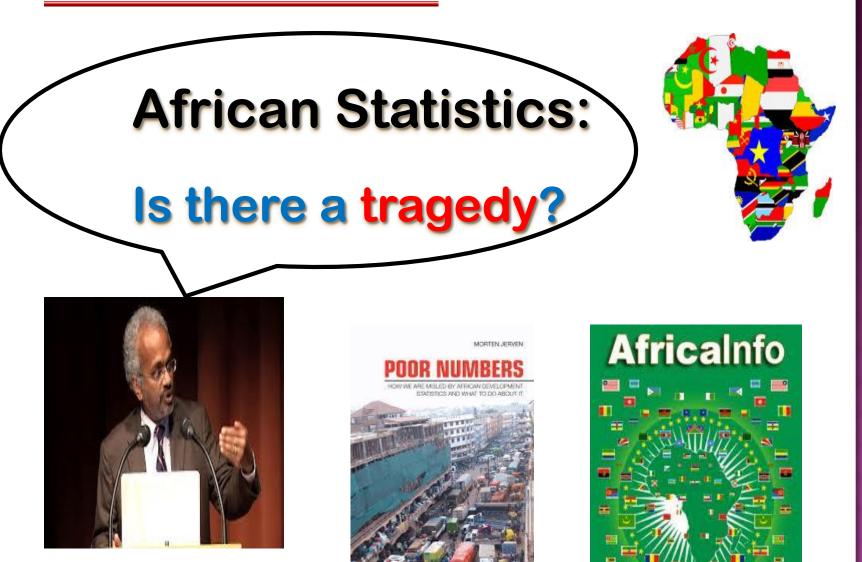
WWW.BLOOMBERG.COM/NEWS/2012-06-12/DON-T-REPLACE-DATA-WITH-IDEOLOGY.-HTML



Are a vital source of evidence of

progress

- Ensure scarce resources are used
- Enhance the decision making process, so that:
 - Our ability to identify key areas which require change are enhanced
 - Our proposals for change are likely to respond to the real needs of the Nigerian people.







Demand for Nigerian Statistics 2005and 2012

	Performance Indicators	2005	2012
1	Reports downloaded	48,479	1,015,6454
2	Request for data onsite	23	334
3	Request for data email	106	4,882
4	Visits to website/ No of hits	36,280	4,486,112
5	No. of times NBS mentioned in the media	73	3,365





What's driving the demand for data?

SURGE IN AFRICAN DATA DEMAND





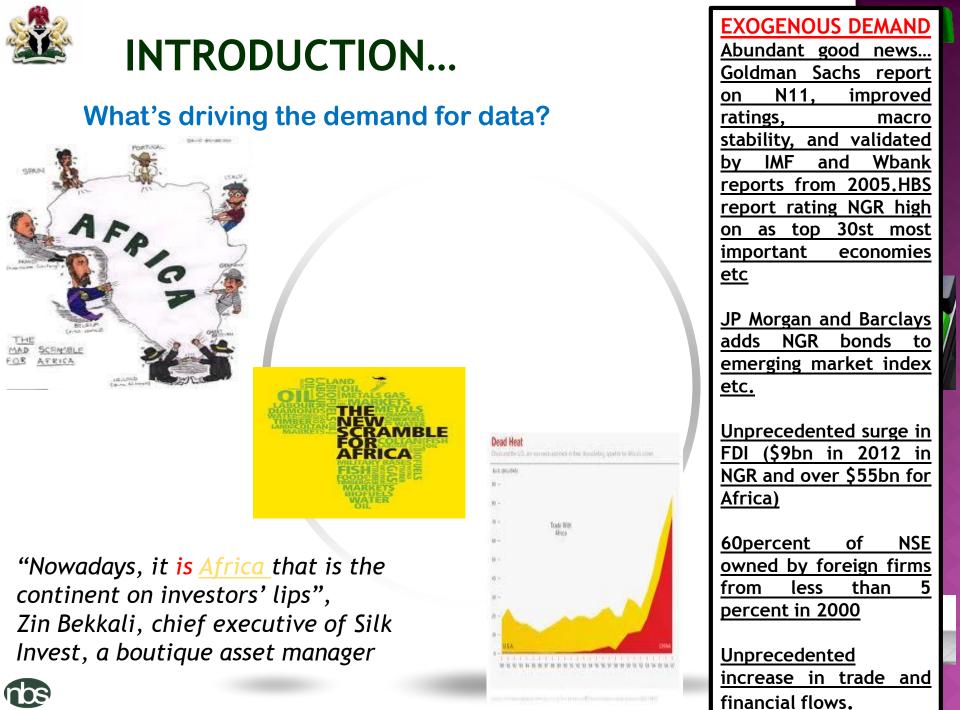
ENDOGENOUS FACTORS



What's driving the demand for data? **EXOGENOUS DEMAND** GDP Growth- Nigeria and the Rest of the World 12 Weakening growth search and for 10 % Change new opportunities 8 (worsened by the economic global 6 crisis) 4 2 0 -2 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013f World 4.9 4.6 5.3 5.4 2.8 0 5.1 3.9 3.2 3.5 United States 2.7 0 2.4 2.30 2.00 3.5 3.1 1.9 0 1.80 Euro Area 3 -0.2 2.2 1.7 3.2 0.4 0 2 1.4 0 Japan 2.4 1.3 1.7 2.2 0 0 4.5 0 2.2 1.2 Latin America and the Carribean 6 6.2 3 3.6 4.7 5.7 5.8 4.2 0 4.5 Middle East and North Africa 6.2 5.3 6.3 5.7 4.5 2.6 5 3.5 5.2 3.4 Sub-Saharan Africa 7.1 2.8 5.8 7.1 6.2 6.4 5.6 5.3 5.3 4.8 Nigeria 10.5 6.5 6.0 6.4 6.0 7.0 8.0 7.4 6.6 6.8

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What's driving the demand for data?





Major international brands entering the Nigerian market in the last three years.







TATA POWER Lighting up Lives!



Click to play Foreign investors race for African land

CNN

CNN's Robyn Curnow looks at the changes and controversy of millions of acres of African land being bought by investors.



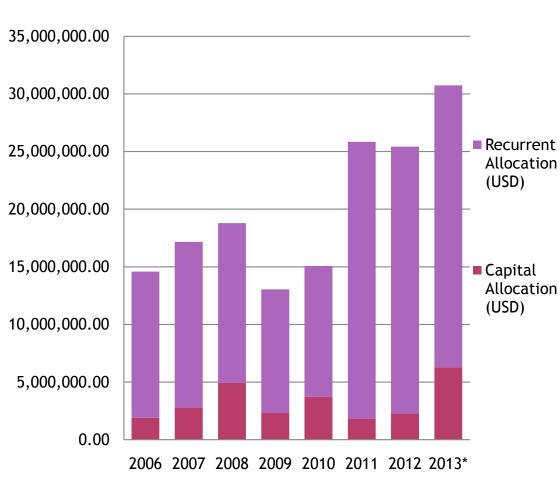




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What's driving the demand for data?

Statistics Budget profile 2006-2013 (\$US)



ENDOGENOUS DEMAND?

Recurrent budget (mostly personnel costs) for the Bureau has been high over the years

The **capital budget** on the other hand, finances key surveys and projects and has largely declined since 2008

As a result of recent advocacy efforts, and demonstrable successes, the current government increased the capital allocation by 25 percent in 2012 and by a whopping 178 percent for 2013!



INTRODUCTION... What's driving the demand for data? <u>ENDOGENOUS DEMAND</u>?



Α



Paradigm shift to results based managementfrom finanacial to output to performance and outcome measurement.

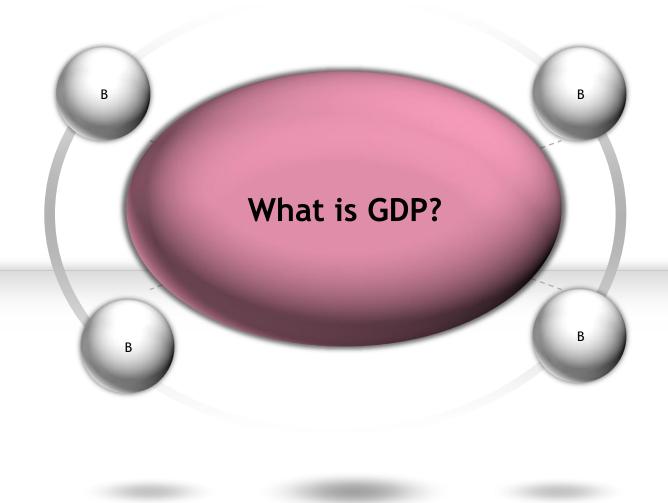
В	Return to strategic planning by FGN
С	Increased demand for accountability from citizens.
D	Return to Democracy after 3 decades of military dictatioship















What is GDP

GDP

market value of all officially recognized final goods and services produced within a country in a given period:

Output/Production approach

- Value of Sales of goods and services -Intermediate Consumption in producing those goods and services.
- Expenditure Approach
 - GDP = C + I + G + (EX IM)
- Income Approach
 - Wages+Rent+Interests+ profits+ adjustments





What is GDP

GDP growth isn't synonymous with development.

- Rising GDP alone may not lead to economic development
- ...but is required for Development
- GDP growth may not necessarily reduce poverty or unemployment
 - Inequality
 - Capital Intensive technologies/ increase in productivity







GDP REBASING/ Re- Benchmarking С

С

"MEASURING BETTER"

С

С



- Over time prices change and the structure of an economy changes
 - introduction of new products
 - alteration in the variety of products and services due to technological innovations and developments;
- Changes in consumption
- Structural changes in acquisition of capital goods and changes in openness of economy
- Price structure of the economy changes
 - base year structure becomes less representative of the economy as time progresses
 - substitution effect: Consumers move away from relatively more expensive products to buy goods with relatively cheaper prices.



•Key Benefit

- Enables policy makers, analysts investors etc to obtain a more accurate picture of economic structure.
- Better understanding of that structure

Inform policy decisions and program design

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Table 1: Selected countries that have undertaken rebasing exercises and the magnitude of the changes.

	Country	Old Base Year	New Base Year	Number of years between base years	% Difference in GDP after rebasing
	Argentina	1986	1993	7	-8.2
	Botswana	1993/1994	2006	13	-10
	Brazil	1985	2000	15	7.0
	Burundi	1996	2005	9	40.3
	Cape Verde	1980	2007	27	13.7
	Chile	1986	1996	10	9.9
	Colombia	1975	1994	19	16.5
	DRCongo	2000	2005	5	66.4
	Ecuador	1975	1994	19	-3.1
	Egypt	2001/2002	2006/2007	6	8.9
	Ethiopia	1999/2000	2010/2011	12	-1
	Ghana	1993	2006	13	62.8
	Guatemala	1958	2001	43	-10.7
	Honduras	1978	2000	22	19.2
	Lesotho	1995	2004	9	-4.4
	Morocco	1988	1998	10	11.7
	Nicaragua	1980	1994	14	70.0
	Niger	1987	2006	19	2.5
	Nigeria	1990	2010	24	???
	Paraguay	1982	1994	12	-11.6
	Sierra Leone	2001	2006	5	25.6
	Tanzania	2001	2007	6	10
	Tunisia	1990	1997	7	9.8
3	Uganda	1997/1998	2002	5	10.5
ONAL BURE	Venezuela	1984	1997	13	-3.2

Methodology

- Detailed methodology has been put on our website at [www.nigerianstat.gov.ng]
- Four major methodological pillars
 - The System of National Accounts (SNA 2008 version),
 - the International Standard Industrial Classification (ISIC Revision 4), and
 - The Central Product Classification (CPC version 2)
 - o Ongoing development of the SUT matrix



NBS Harmonized Frame							
	Sectors	NBS FRAME	NBS Old Frame				
1	AGRICULTURE, FORESTRY AND FISHING	1,116	671				
2	MINING AND QUARRYING	971	261				
3	MANUFACTURING	76,656	16,248				
4	CONSTRUCTION	53,507	551				
5	WHOLESALE AND RETAIL TRADE, REPAIR OF MOTOR VEHICLES AND MOTORCYCLES	502,085	16,583				
6	TRANSPORTATION AND STORAGE	5,902	1,418				
7	ACCOMMODATION AND FOOD SERVICE ACTIVITIES	13,109	5,774				
8	INFORMATION AND COMMUNICATION	1,719	2,183				
9	PROFESSIONAL, SCIENTIFIC AND TECHNICAL ACTIVITIES	125,482	4,593				
10	ADMINISTRATIVE AND SUPPORT SERVICE ACTIVITIES	2,048	1,096				
11	EDUCATION	34,974	24,713				
12	HUMAN HEALTH AND SOCIAL WORK ACTIVITIES	13,083	6,749				
13	ARTS, ENTERTAINMENT AND RECREATION	805	281				
14	OTHER SERVICE ACTIVITIES	8,450	2,002				
15	Real Estate	11721	610				
	Total	851,628	83,733				



Methodology

- Extensive Supplementary Surveys
 - Mining and Quarrying
 - Manufacturing
 - Construction
 - Wholesale & Retail Trade, Repair of motor vehicles & motor cycles
 - Transportation & Storage
 - Accommodation & Food service activities
 - Information & Communication inc motion picture and sound recording
 - Real Estate activities
 - Professional ,Scientific & Technical activities
 - Administrative & Support Service activities
 - Education
 - Human Health and Social Work activities
 - Arts & Entertainment
 - Other Service activities



Methodology: Key activities

- Revision of the activity classification in national accounts;
- Compilation of merchandise imports & exports, wholesale & retail trade margins, as well as imports and exports of services
- Field surveys for selected economic activities
- Collection of price indices
- Compilation of preliminary intermediate consumption and valuation matrices and
- Estimation of production accounts by the adopted industry classification
- Technical workshops with Stakeholders, involving over 150 Ministries, Departments & Agencies
- Results-validation meetings with key policy makers including the National Economic Management Team (NEMT), National Economic Management and Implementation Team (EMIT),
- Results-validation meetings with 6 economics professors; and
- Results-validation meetings with Joint Mission of the International Monetary Fund (IMF), the World Bank and African Development Bank (AfDB).





ISIC Rev.3.1

- Agriculture, hunting and forestry А
- Fishing В

33

- Mining and quarrying С
- Manufacturing D
- Electricity, gas and water supply Е
- Construction F
- Wholesale and retail trade; ... G
- Hotels and restaurants Н
- Transport, storage and communications
- **Financial intermediation**
- Real estate, renting and business ... Κ
- Public administration ...
- Education Μ
- Health and social work Ν
- Other community, social, personal ... Ο
- Activities of private households Ρ

Extraterritorial organizations and bodies

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В С G Ν Ο Q R S

ISIC Rev.4

- Agriculture, forestry and fishing
- Mining and quarrying
- Manufacturing
- Electricity, gas, steam ...
- Water supply; sewerage, waste ...
- Construction
- Wholesale and retail trade; ...
- Transportation and storage
- Accommodation and food service activities
- Information and communication
- Financial and insurance activities
- Real estate activities
- Professional, scientific and technical activities
- Administrative and support service activities
- Public administration ...
- Education
- Human health and social work activities
- Arts, entertainment and recreation
- Other service activities
- Activities of households ...
- Activities of extraterritorial organizations ... υ

Old Classification		New Classification			
		Crop Production			
Crop Production	Post		Construction		
Livestock	Financial Institutions	Livestock	Trade		
Forestry	Insurance	Forestry	Accommodation and food services		
Fishing	Real Estate	Fishing Coal Mining	Road Transport		
Coal Mining	Business Services		Rail Transport & Pipelines		
Crude Petroleum & Natural Gas	Public Administration	Crude Petroleum And Natural Gas	Water Transport		
Metal Ores	Education	Metal Ores	Air Transport		
Quarrying & Other Mining	Health	Quarrying And Other Minerals	Transport Services		
Oil Refining	Private Non Profit Organisations	Oil Refining	Post and Courier Services		
Cement	Other Services	Cement	Telecommunications		
Other Manufacturing	Broadcasting	Food, Beverage And Tobacco	Motion Pictures, Sound recording and Misic production		
Electricity		Textile, Apparel And Footwear	Publishing		
Water		Wood And Wood Products	Broadcasting		
Building & Construction		Pulp, Paper And Paper Products	Arts, Entertainment and Recreation		
Wholesale and Retail Trade		Chemical, Chemical Products And Pharmaceutical Products	Financial Institutions		
Hotel and Restaurants		Non-metalic Products	Insurance		
Road Transport		Plastic And Rubber Products	Real Estate		
Rail Transport & Pipelines		Electrical And Electronics	Administrative and Support Serives		
Water Transport		Basic Metal , Iron And Steel	Professional, Scientific and technical services		
Air Transport		Motor Vehicles & Assembly	Public Administration		
Transport Services		Other Manufacturing	Education		



SECTION D



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OLD SERIES (Nm)							
	2010	2011	2012	2013f			
Agriculture	10,310,655.64	11,593,434.13	13,413,842.46	14,709,104.92			
Industry	15,659,521.00	16,569,291.58	16,456,457.10	15,374,554.67			
Services	8,014,577.50	9,247,134.90	10,673,800.38	12,313,106.11			
Total Nominal GDP	33,984,754.13	37,409,860.61	40,544,099.94	42,396,765.71			
	NEW	SERIES (Nm)					
	2010	2011	2012	2013f			
Agriculture	12,988,809.19	14,421,928.95	15,918,631.70	17,625,142.90			
Industry							
	13,992,438.93	17,615,537.36	19,024,322.24	20,671,951.45			
Services	27,223,547.01	31,221,112.69	36,243,580.95	41,925,033.96			
Total Nominal GDP	54,204,795.12	63,258,579.00	71,186,534.89	80,222,128.32			

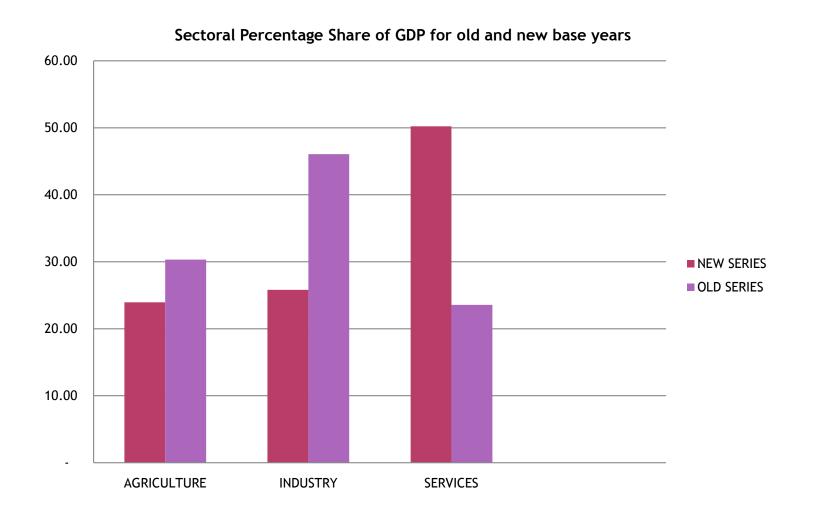
Percentage change between Old and New GDP Series

Sector	2010	2011	2012	2013f
Agriculture	25.97	24.40	18.67	19.82
Industry	-10.65	6.31	15.60	34.46
Services	239.68	237.63	239.56	240.49
Total Nominal GDP	59.50	69.10	75.58	89.22

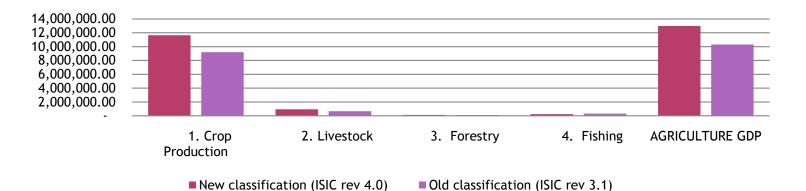


	2010 (old)	2011 (Old)	2012 (old)	2013 (Old)	2010 (new)	2011 (new)	2012 (new)	2013f (new)
Agriculture	30.34	30.99	33.08	34.69	24.0	22.80	22.40	21.97
Industry	46.08	44.29	40.59	36.26	25.81	27.85	26.72	25.64
- Manufacturi ng(of total)	1.89	1.86	1.88	1.94	6.60	6.46	6.67	6.83
Crude oil & Nat Gas	42.68	40.86	37.01	32.43	15.50	17.52	15.89	14.40
Services	23.58	23.72	26.33	29.04	50.22	49.35	50.91	51.89
Telecommun ications and Info services	0.77	0.78	0.82	0.86	9.1	8.74	8.73	8.69
Motion pictures, sound recording and music production	-	-	-	-	0.88	1.01	1.20	1.42

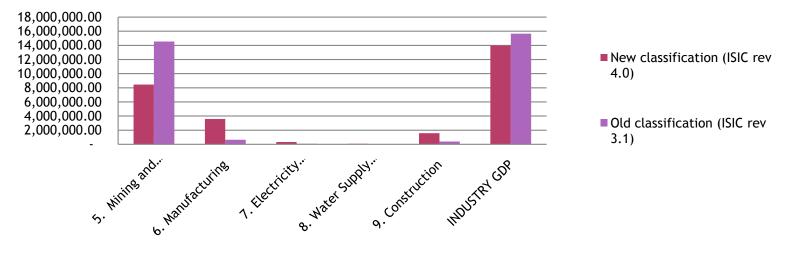




Changes in Agriculture (old and new base years) (Nm)



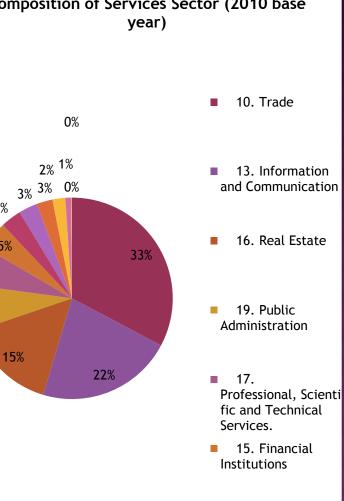
Composition of Industry (old and new base years) Nm





Composition of Services Sector (1990 Composition of Services Sector (2010 base Base Year) year) 10. Wholesale and Retail Trade 1% 0% 11. Hotel and Restaurants 1% 0% 2% ^{1%} 0% 15. Real Estate 3% 3% 0% 3% 3% 0% 3% 4% 12. 5% 6% Transportation and 33% storage. 6% 7% 14. Financial Institutions 7% 58% 20. Other Services 16% 15% 22% 13. 1% Telecom, Post and Broadcasting

- 17. Public Administration
- 16. Business Services (Not Health or education)



REAL GDP GROWTH RATE (old vs new series)					
	2011	2012	2013f		
Growth at 2010					
constant basic					
prices (new)	5.	09 6.66	7.41		
Growth at 2010					
constant Market					
Prices (new)	4.	65 6.75	7.31		
Growth at 1990					
constant basic					
prices(Old)	7	43 6.58	6.89		
Growth at 1990	/.	45 0.56	0.89		
constant Market					
Prices (old)	7	44 6.52	6.85		
1 11CCS (UIU)	7.	++ 0. <i>J</i> 2	0.05		

Simple Differences btw New and Old GDP 2010

Information and Communication 5.695 Trade 4.262 Manufacturing 2.936 **Real Estate** 2.860 **Crop Production** 2.455 **Public Administration** Professional, Scientific and Technical Services. 1.6'Construction 76 Education 771 **Financial Institutions** 735 **Other Services** .592 Human Health and Social Services. .547 0.291Livestock Electricity Gas, Steam and air conditioning supply 0.248 Transportation and storage. 0.166 Accommodation and Food Services. 0.132 Water Supply and Waste Management 0.070 Arts Entertainment and Recreation 0.031 Administrative and Support Services. 0.013 Forestry 0.011 Fishing -0.078Mining and Quarrying -6.09 -8 -2 0 -6 -4 2 4 6

N'Trns

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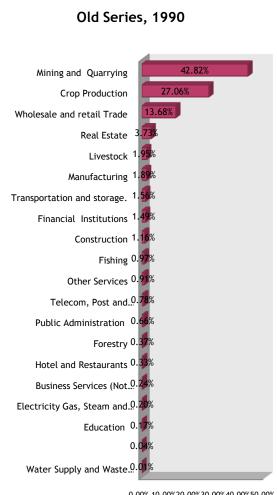
Rebased (New) Series, 2010

11.65		
8.91		
8.45		
5.96		
4.13		
3.58		
2.00		
1.71		
1.57		
0.95		
0.90		
0.25		
- 5	10	15
	$\begin{array}{r c c c c c c c c c c c c c c c c c c c$	8.91 8.45 5.96 4.13 3.58 2.00 1.71 1.57 1.24 0.95 0.90 0.83 0.69 0.56 0.32 0.25 0.14 0.07 0.03 0.01

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% of GDP (2010, Rebased)

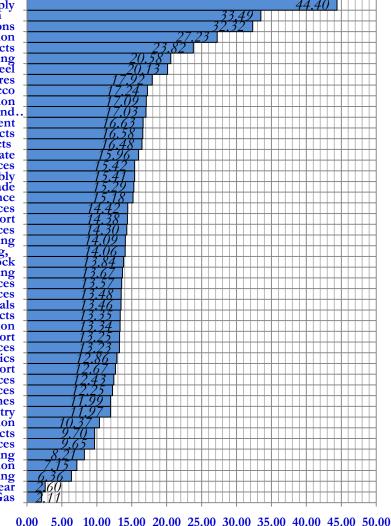
Crop Production	21.49	
Trade	16.44	
Mining and	15.60	
Information	11.00	
Real Estate	7.62	
Manufacturing	6.60	
Public	3.69	
Professional, S	3.16	
Construction	2.90	
Financial	2.29	
Livestock	1.76	
Other Services	1.66	
Education	1.53	
Transportation	1.28	
Human Health	1.03	
Electricity	0.58	
Fishing	0.46	
Accommodatio	0.45	
Forestry	0.25	
Water Supply	0.13	
Arts	0.06	
Administrative	0.02	
-		
% of GDP) 2	U 40



% of GDP

0.00% 10.00% 20.00% 30.00% 40.00% 50.00%

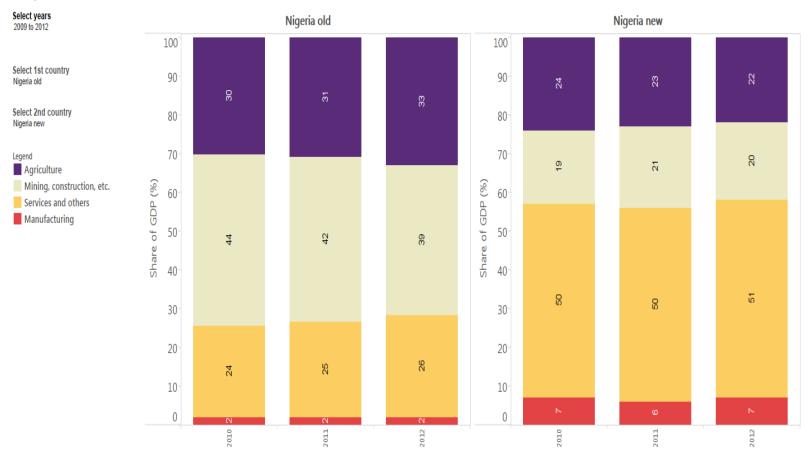
Electricity, Gas ,Steam and Air Conditioning Supply Motion Pictures, Sound recording and Music production **Financial Institutions** Arts, Entertainment And Recreation **Plastic and Rubber products** Coal Mining Basic metal, Iron and Steel Metal Ores Food, Beverage and Tobacco Education Water Supply, Sewerage, Waste Management and. Cement Pulp, Paper and Paper Products Chemical and Pharmaceutical Products Real Estate Accommodation And Food Services Motor vehicles & assembly Trade Insurance Other services % Growth Air Transport Professional, Scientific And Technical Services **Oil Refining** Publishing, Livestock **GDP**, 2013 Fishing Human health and social services Administrative & Support Services Quarrying and Other Minerals Wood and Wood Products **Public Administration** Water Transport **Transport Services Electrical and Electronics Road Transport** GDP at Basic prices **Telecommunications and Information Services Rail Transport & Pipelines** Forestry **Crop Production Non-Metallic Products Post and Courier Services** Other Manufacturing Construction **Broadcasting** Textile, Apparel and Footwear Crude Petroleum and Natural Gas





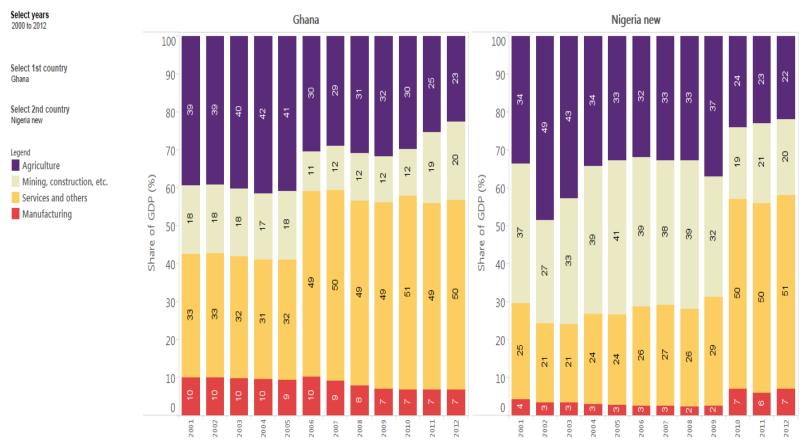
Nominal

Comparison of Structure of GDP



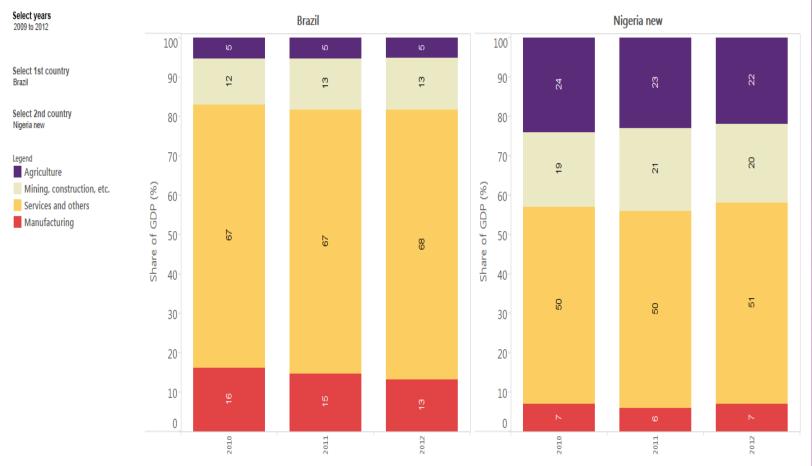
Source: For all but Nigeria new, 2010-2012, WDI Indicators (updated on April 4, 2014) For Nigeria new, 2010-2012, Nigeria Bureau of Statistics, April 6, 2014

Comparison of Structure of GDP



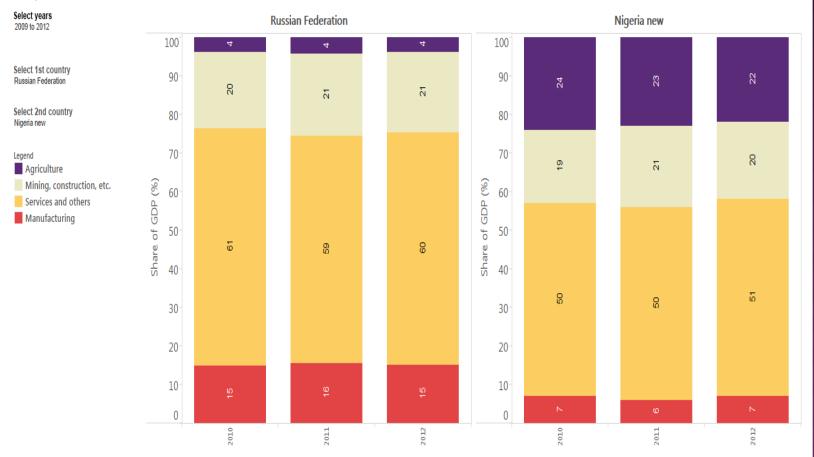
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Comparison of Structure of GDP



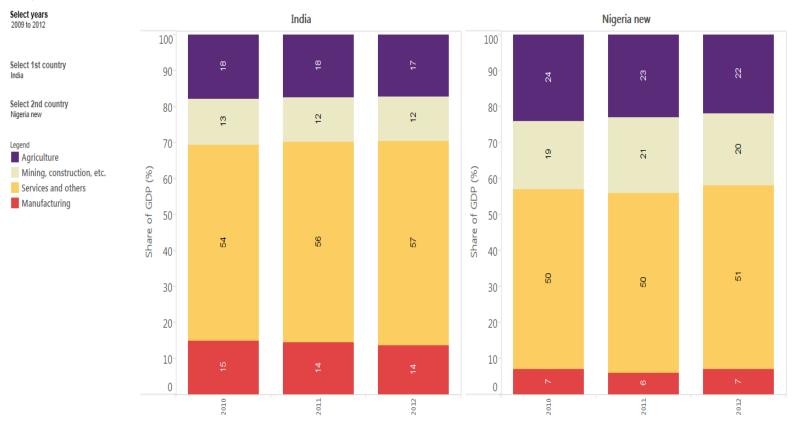
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Comparison of Structure of GDP



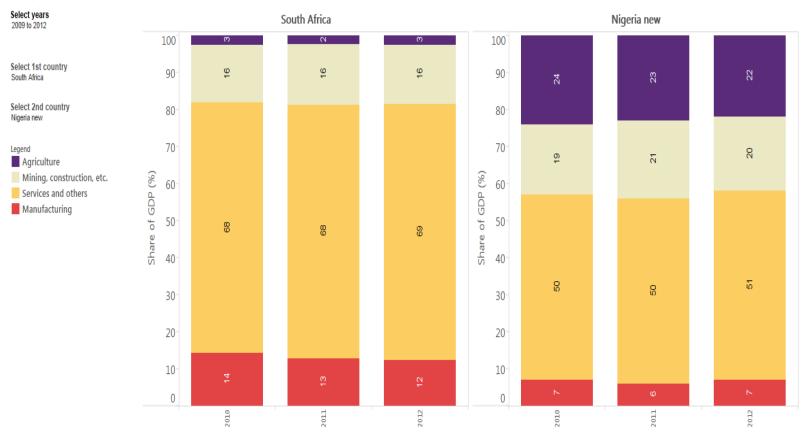


Comparison of Structure of GDP



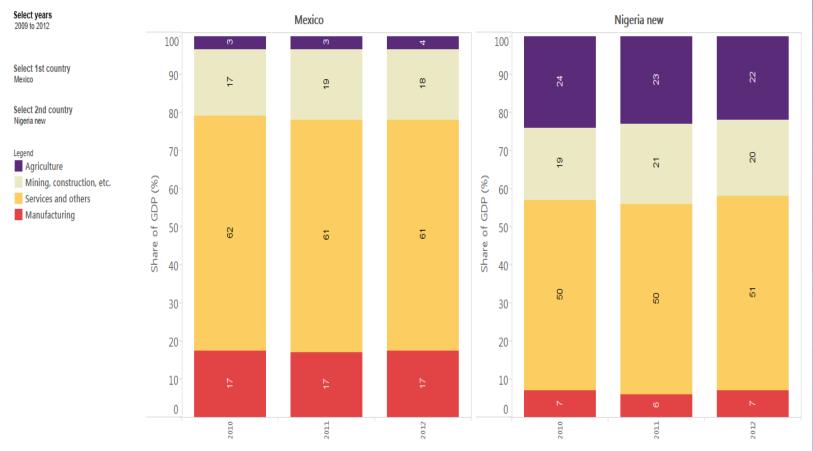


Comparison of Structure of GDP



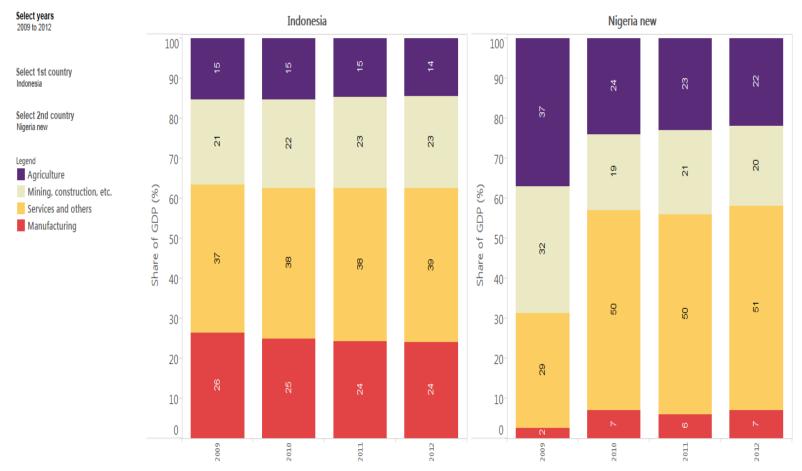


Comparison of Structure of GDP



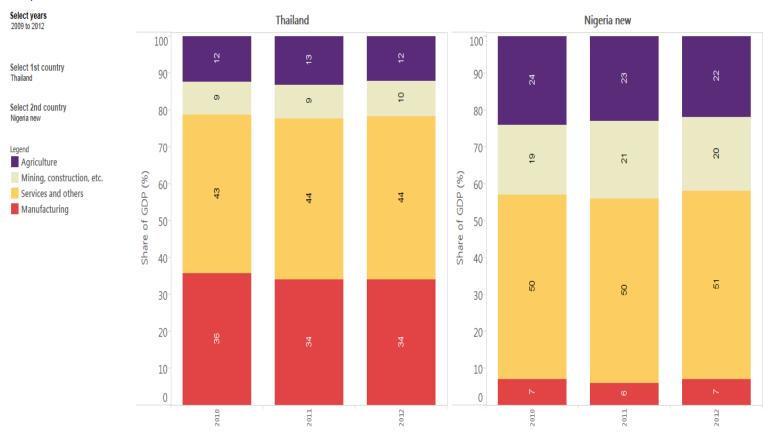
Source: For all but Nigeria new, 2010-2012, WDI Indicators (updated on April 4, 2014) For Nigeria new, 2010-2012, Nigeria Bureau of Statistics, April 6, 2014

Comparison of Structure of GDP





Comparison of Structure of GDP





2010 GDP in Current US \$ - All Countries



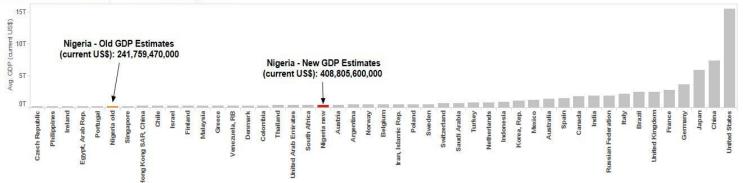
Source: All but Nigeria New GDP estimates, World Bank World Development Indicators Nigeria New GDP Estimates, Nigeria Bureau of Statistics, April 6, 2014



2011 GDP in Current US \$ - All Countries



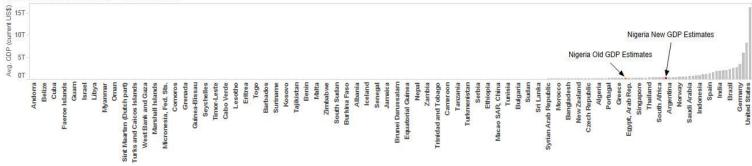
2011 GDP in Current US \$ - Countries with Highest GDP

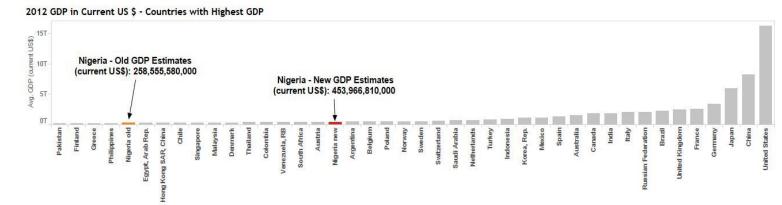


Source: All but Nigeria New GDP estimates, World Bank World Development Indicators Nigeria New GDP Estimates, Nigeria Bureau of Statistics, April 6, 2014



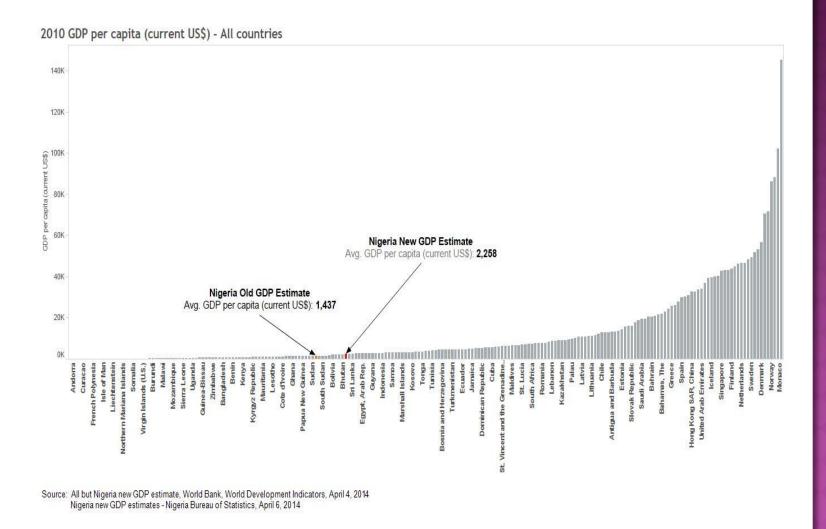
2012 GDP in Current US \$ - All Countries





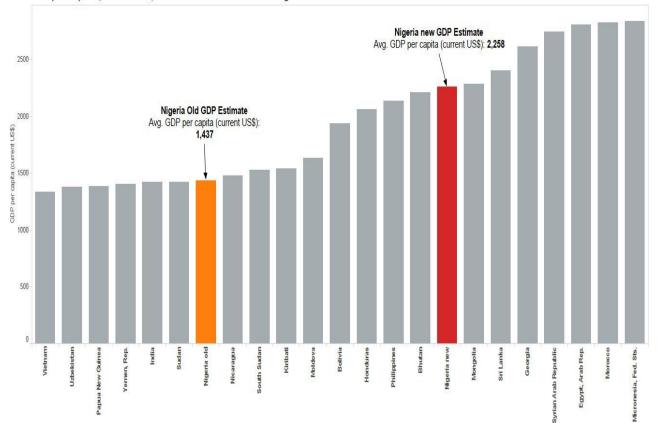
Source: All but Nigeria New GDP estimates, World Bank World Development Indicators Nigeria New GDP Estimates, Nigeria Bureau of Statistics, April 6, 2014





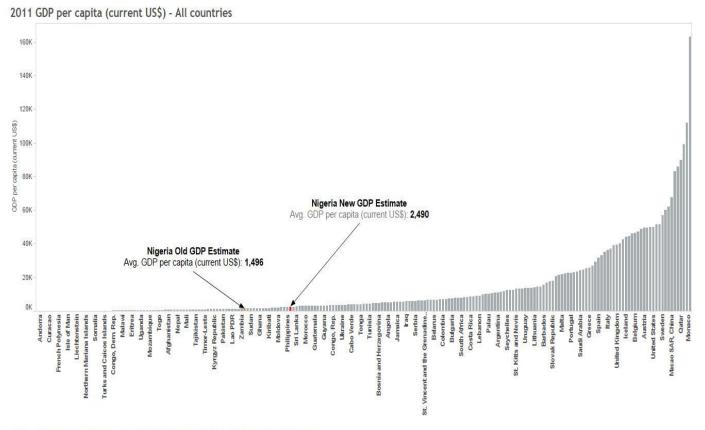


2010 GDP per capita (current US\$) - Countries around value of Nigeria



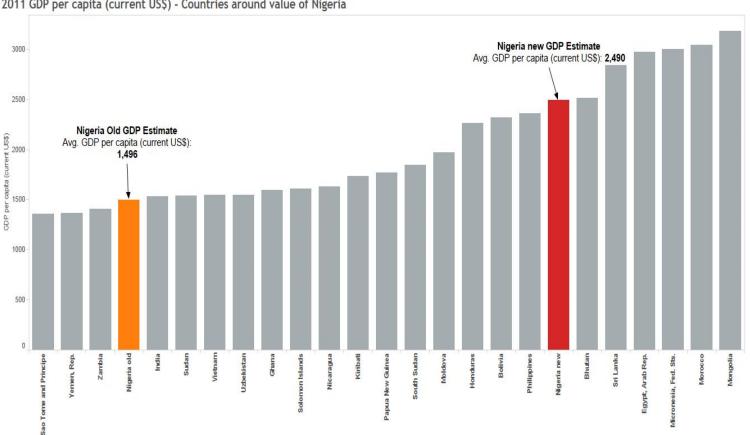
Source: All but Nigeria new GDP estimate, World Bank, World Development Indicators, April 4, 2014 Nigeria new GDP estimates - Nigeria Bureau of Statistics, April 6, 2014...





Source: All but Nigeria new GDP estimate, World Bank, World Development Indicators, April 4, 2014 Nigeria new GDP estimates - Nigeria Bureau of Statistics, April 6, 2014

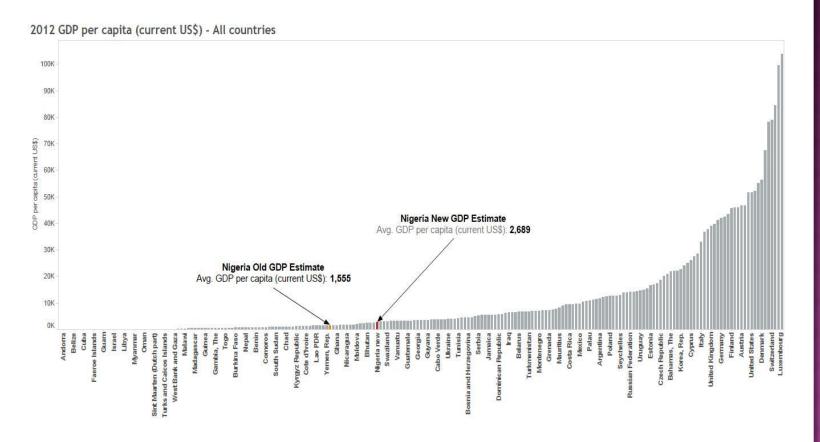




2011 GDP per capita (current US\$) - Countries around value of Nigeria

Source: All but Nigeria new GDP estimate, World Bank, World Development Indicators, April 4, 2014 Nigeria new GDP estimates - Nigeria Bureau of Statistics, April 6, 2014 ...

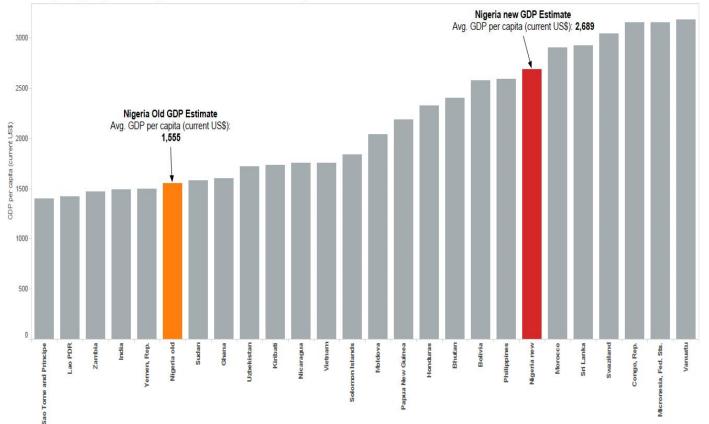




Source: All but Nigeria new GDP estimate, World Bank, World Development Indicators, April 4, 2014 Nigeria new GDP estimates - Nigeria Bureau of Statistics, April 6, 2014



2012 GDP per capita (current US\$) - Countries around value of Nigeria

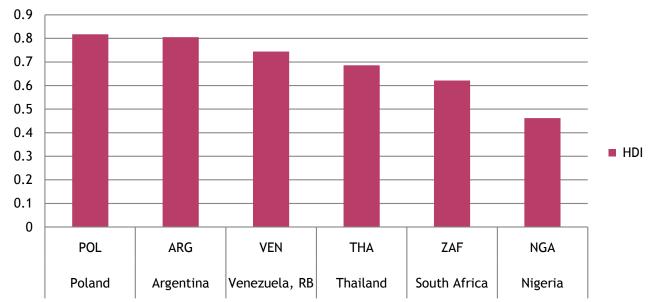


Source: All but Nigeria new GDP estimate, World Bank, World Development Indicators, April 4, 2014 Nigeria new GDP estimates - Nigeria Bureau of Statistics, April 6, 2014...



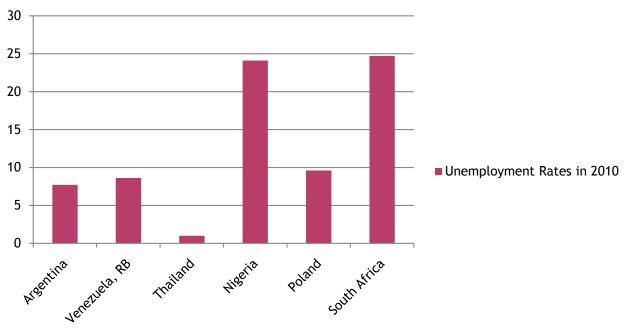
Debt to GDP 2012(old) series	Debt to GDP 2012 (new series)
19%	11%





Relative Country Ranking HDI for 2010

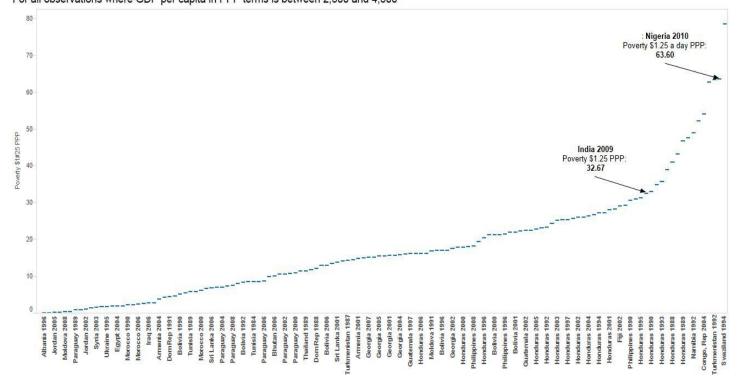








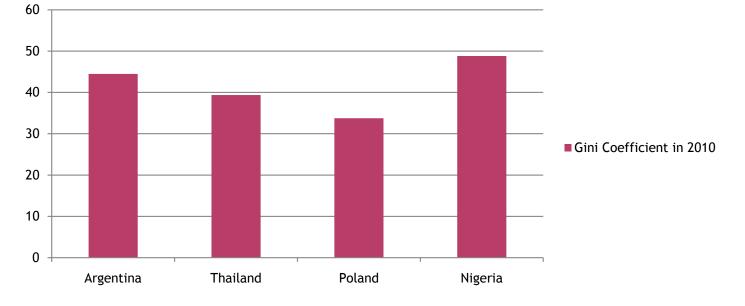
Poverty Headcount Rates at \$1.25 a day PPP For all observations where GDP per capita in PPP terms is between 2,500 and 4,500



Source: World Bank, POVCALNET and World Development Indicators



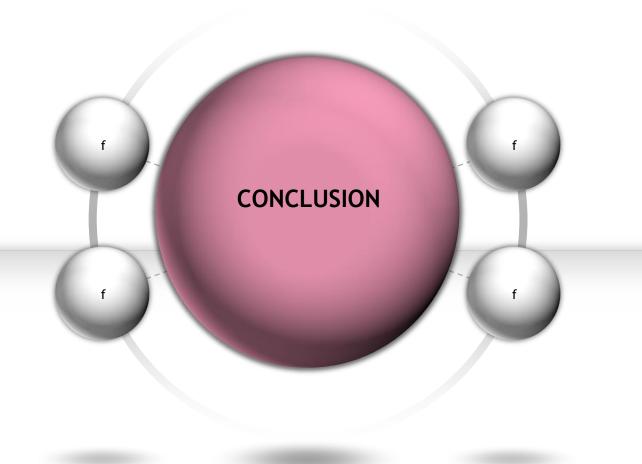
Gini Coefficient in 2010



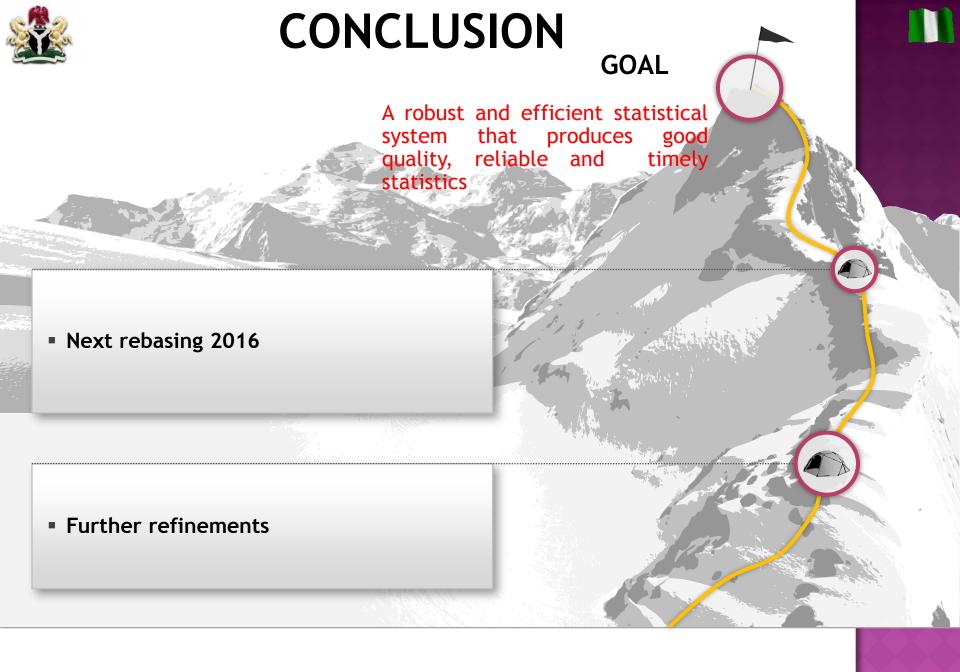




SECTION E









THANK YOU FOR YOUR ATTENTION!

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