# Macro-Economic Ratios After the Rebasing of Nigeria's GDP: Implications for Transformative Development

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# Outline

- Background and Key Milestones
- Results of Finalized Estimates
- Macro Economic Summary
- Key Ratios and Indicators
  - Financial and Monetary
  - Fiscal
  - External
  - Socio-Economic
- Implications and Recommendations
- Comparative Analysis
- Conclusion

### **Background and Key Milestones**

Rebasing was apart of a wider statistical reform on Methodology

Unemployment

- National Accounts (includes GDP series)
- Trade
- CPI (Inflation)
- National Census of Commerce and Industrial Businesses
- National Agricultural Sample Census ...
- etc

### **Background and Key Milestones**

- Methodology
  - Four major methodological pillars
    - The System of National Accounts (SNA 2008 version),
    - The International Standard Industrial Classification (ISIC Revision 4),
    - The Central Product Classification (CPC version 2)
    - The development of a Supply and Use Table/matrix (SUT)
    - NBS conducted 14 sector surveys
    - Data collected from various MDAs, and private businesses:
      - FIRS, MoF, SEC, CBN, Customs, MAN, REDAN, NEITI, MTN, Ministry of Solid Minerals, NAICOM, NCC, etc.
    - Validation by International and Domestic experts
      IMF, World Bank, ADB, 6 renowned economists

### **Background and Key Milestones** The Movement from ISIC 3.1 to 4 ISIC Rev.4

#### ISIC Rev.3.1

- A Agriculture, hunting and forestry
- **B** Fishing
- C Mining and quarrying
- D Manufacturing
- E Electricity, gas and water supply
- F Construction
- G Wholesale and retail trade; ...
- H Hotels and restaurants
- I Transport, storage and communications
- J Financial intermediation
- K Real estate, renting and business ...
- L Public administration ...
- M Education
- N Health and social work
- O Other community, social, personal ....
- P Activities of private households
- Q Extraterritorial organizations and bodies

- A Agriculture, forestry and fishing
- B Mining and quarrying
- C Manufacturing
- D Electricity, gas, steam ...
- E Water supply; sewerage, waste ...
- Construction
- G Wholesale and retail trade; ...
- H Transportation and storage
- Accommodation and food service activities
- J Information and communication
- K Financial and insurance activities
- L Real estate activities
- M Professional, scientific and technical activities
- N Administrative and support service activities
- O Public administration ...
- P Education
- Q Human health and social work activities
- R Arts, entertainment and recreation
- S Other service activities
- Activities of households
- U Activities of extraterritorial organizations ...

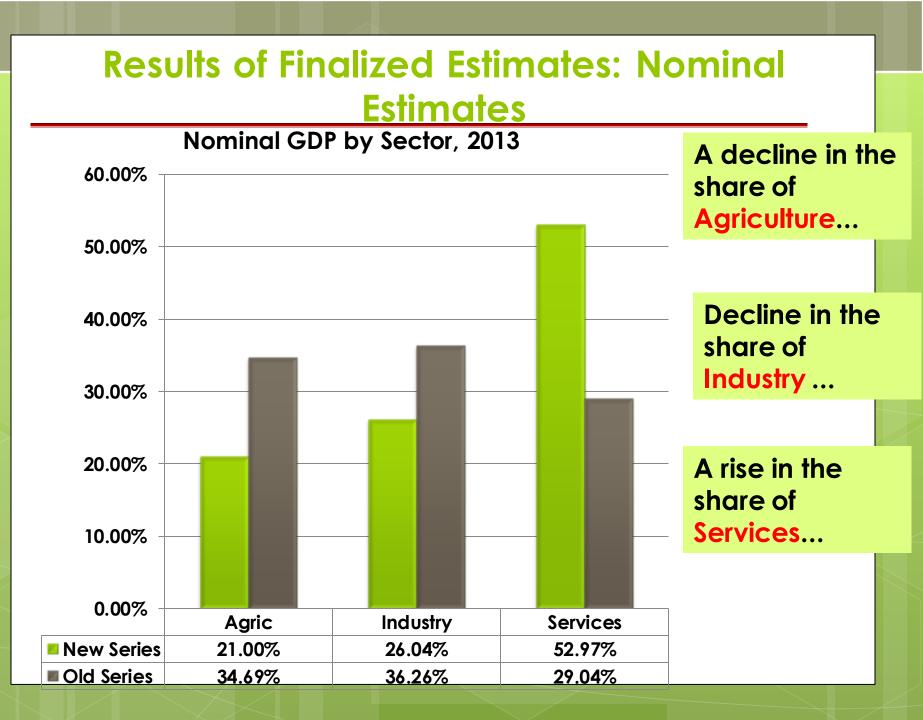
# **Background and Key Milestones** The SNA 2008 and The SUT

	01	02	05	10 Mining	11	12 Mining	13 Mining	14 Other	15	16	17
	Agricultur	Forestry,	Fishing,	of coal	Extraction	of	of metal	mining	Manufact	Manufact	Manufact
	e, hunting	logging	operating	and	of crude	uranium	ores	and	ure of	ure of	ure of
	and	and	of fish	lignite;	petroleum	and		quarrying	food	tobacco	textiles
	related	related	hatcherie	extraction	and	thorium			products	products	
	service	service	s and fish	of peat	natural	ores			and		
01 Products of agriculture, hunting and related services	4264	0	0	0	0	0	0	0	21	0	0
02 Products of forestry, logging and related services	0	3217	0	0	0	0	0	0	0	0	0
05 Fish and other fishing products; services incidental of fishing	2	0	132	0	0	0	0	0	3	0	0
10 Coal and lignite; peat	0	0	0	253	0	0	0	1	0	0	0
11 Crude petroleum and natural gas	0	0	0	0	0	0	0	0	0	0	0
12 Uranium and thorium ores	0	0	0	0	0	0	0	0	0	0	0
13 Metal ores	0	0	0	0	0	0	134	8	0	0	0
14 Other mining and quarrying products	0	0	0	0	0	0	15	656	1	0	0
15 Food products and beverages	6	0	0	0	0	0	0	0	8092	0	0
16 Tobacco products	0	0	0	0	0	0	0	0	0	0	0
17 Textiles	0	0	0	0	0	0	0	0	0	0	601
18 Wearing apparel; furs	0	0	0	0	0	0	0	0	0	0	13
19 Leather and leather products	0	0	0	0	0	0	0	0	0	0	2

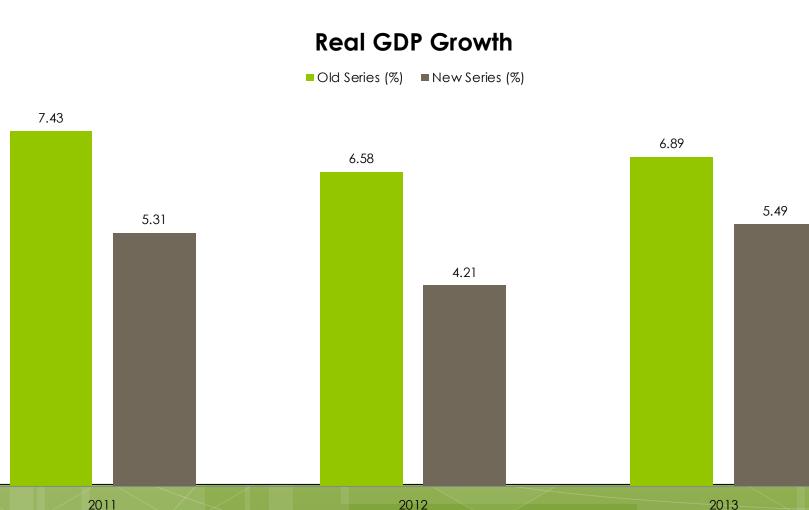
### **Background and Key Milestones**

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					

Estimates        Old Series (N, Million, Current Prices)        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      16,374,554.67        Services      8,014,577.50      9,247,134.90      10,673,800.38      12,313,106.11        TOTAL      33,984,754.13      37,409,860.61      40,544,099.94      42,396,765.71      This        Agriculture      13,048,892.80      14,037,825.84      15,815,997.51      16,816,553.01      20,853,845.33      42,422,165.04        Nominal GDP      2010      2011      2012      2013      This        Industry      13,826,433.90      17,853,113.99      19,587,721.32      20,853,845.33      42,422,165.04        Services      27,736,937.48      31,089,457.4      36,310,216.23      42,422,165.04      80,092,563.38        IOTAL      54,612,264.18      62,980,397.22      71,713,935.06      80,092,563.38      Largest economy in Africa;        2010      2011      2012      2013 </th <th colspan="9">Results of Finalized Estimates: Nominal</th>	Results of Finalized Estimates: Nominal								
Old Series (N, Million, Current Prices)        Agriculture      10,310,655.64      11,593,434.13      13,413,842.46      14,709,104.92      (2013) est.:        Industry      15,659,521.00      16,569,291.58      16,456,457.10      15,374,554.67      N80.1trillion        Services      8,014,577.50      9,247,134.90      10,673,800.38      2,313,106.11      N80.1trillion        TOTAL      33,984,754.13      37,409,860.61      40,544,099.94      42,396,765.71      This        Agriculture      13,048,892.80      14,037,825.84      15,815,997.51      16,816,553.01      U\$\$5509.1      U\$\$\$5509.1      billion        Agriculture      13,048,892.80      17,853,113.99      19,587,721.32      20,853,845.33      20,853,845.33      20,92,563.38      U\$\$\$509.1      billion        TOTAL      54,612,264.18      62,980,397.22      71,713,935.06      80,092,563.38      Largest economy in Africa;      Africa;        2010      2011      2012      2013      447      447      447	Estimates 🦳								
2010      2011      2012      2013F      Nominal GDP        Agriculture      10,310,655.64      11,593,434.13      13,413,842.46      14,709,104.92      (2013) est.:      N80.11        Industry      15,659,521.00      16,569,291.58      16,456,457.10      15,374,554.67      N80.1trillion        Services      8,014,577.50      9,247,134.90      10,673,800.38      2,313,106.11      N80.1trillion        TOTAL      33,984,754.13      37,409,860.61      40,544,099.94      42,396,765.71      This        Agriculture      13,048,892.80      14,037,825.84      15,815,997.51      16,816,553.01      20,853,845.33      US\$509.1      billion        Industry      13,826,433.90      17,853,113.99      19,587,721.32      20,853,845.33      42,422,165.04      80,092,563.38        TOTAL      54,612,264.18      62,980,397.22      71,713,935.06      80,092,563.38      Largest economy in Africa;        2010      2011      2012      2013      Africa;      26 <sup>th</sup> largest in		Old Se			ces)				
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    33,984,754.13    37,409,860.61    40,544,099.94    42,396,765.71    N80.1trillion      New Series (N, Million, Current Prices)    16,816,553.01    2010    2011    2012    2013      Agriculture    13,048,892.80    14,037,825.84    15,815,997.51    16,816,553.01    US\$509.1    US\$509.1      Industry    13,826,433.90    17,853,113.99    19,587,721.32    20,853,845.33    42,422,165.04      Services    27,736,937.48    31,089,457.4    36,310,216.23    42,422,165.04    B0,092,563.38    Largest economy in Africa;      Percentage change between Old Estimates (%)    2010    2011    2012    2013    Africa;    26th largest in Africa;			-			Nominal GDP			
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    2,313,106.11      TOTAL    33,984,754.13    37,409,860.61    40,544,099,94    42,396,765.71      New Series (N, Million, Current Prices)    Item 13,048,892.80    14,037,825.84    15,815,997.51    16,816,553.01      Agriculture    13,048,892.80    14,037,825.84    15,815,997.51    16,816,553.01    US\$509.1      Industry    13,826,433.90    17,853,113.99    19,587,721.32    20,853,845.33    42,422,165.04      Services    27,736,937.48    31,089,457.4    36,310,216.23    42,422,165.04      Percentage change between Old Estimates (%)    and New    Largest economy in Africa;      2010    2011    2012    2013      Agriculture    2737    2137    1897    1497	Agriculture	10,310,655.64	11,593,434.13	13,413,842.46	14,709,104.92	(2013) est.:			
Services    8,014,577.50    9,247,134.90    10,673,800.38    2,313,106.11      TOTAL    33,984,754.13    37,409,860.61    40,544,099,94    42,396,765.71      New Series (N, Million, Current Prices)    12,396,765.71    This      Agriculture    13,048,892.80    14,037,825.84    15,815,997.51    16,816,553.01    US\$509.1      Industry    13,826,433.90    17,853,113.99    19,587,721.32    20,853,845.33    42,422,165.04      Services    27,736,937.48    31,089,457.4    36,310,216.23    42,422,165.04    billion      Percentage change between Old    and New    Largest    conomy in      Africa;    2010    2011    2012    2013      Agriculture    370    211    2012    2013	Industry	15,659,521.00	16,569,291.58	16,456,457.10	15,374,554.67	• •			
New Series (N, Million, Current Prices)      Inis        Agriculture      13,048,892.80      14,037,825.84      15,815,997.51      16,816,553.01      US\$509.1      US\$509.1        Industry      13,826,433.90      17,853,113.99      19,587,721.32      20,853,845.33      42,422,165.04      US\$509.1      US\$509.1 <td>Services</td> <td>8,014,577.50</td> <td>9,247,134.90</td> <td>10,673,800.38</td> <td>2,313,106.11</td> <td></td>	Services	8,014,577.50	9,247,134.90	10,673,800.38	2,313,106.11				
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Industry    13,826,433.90    17,853,113.99    19,587,721.32    20,853,845.33    billion      Services    27,736,937.48    31,089,457.4    36,310,216.23    42,422,165.04    80,092,563.38    billion      IOTAL    54,612,264.18    62,980,397.22    71,713,935.06    80,092,563.38    Largest economy in Africa;      Percentage change between Old Estimates (%)    and New    Largest economy in Africa;    Africa;    2010    2011    2012    2013    Africa;    26 <sup>th</sup> largest in	Agriculture	13,048,892.80	14,037,825.84	15,815,997.51	16,816,553.01	U\$\$509.1			
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Percentage change between Old and New Estimates (%)Largest economy in Africa; 2010201020112012201320102011201220132010201119%14%	Services	27,736,937.48	31,089,457.4	36,310,216.23	42,422,165.04				
Percentage change between Old and New    economy in      Estimates (%)    Africa;      2010    2011    2012    2013      Agriculture    27%    21%    18%    14%	TOTAL	54,612,264.18	62,980,397.22	71,713,935.06	80,092,563.38				
Percentage change between Old and New    economy in      Estimates (%)    Africa;      2010    2011    2012    2013      Agriculture    27%    21%    18%    14%						Largest			
Estimates (%)      Africa;        2010      2011      2012      2013        Agriculture      27%      21%      18%      14%		Percentage	e change b	etween Old	and New				
2010      2011      2012      2013      26 <sup>th</sup> largest in        Agriculture      27%      21%      18%      14%      26 <sup>th</sup> largest in		· · ·				· · · · · · · · · · · · · · · · · · ·			
$\Delta ariculture 0.777 0.197 1.097 1.497 20^{11} 1.497 1$		2010			2013	· · · · · · · · · · · · · · · · · · ·			
	Agriculture	27%	21%	18%	14%				
Industry -12% 8% 19% 36% the world						ine world			
Services 246% 236% 240% 245%	-			_					
TOTAL 61% 68% 77% 89%									



Macro Economic Summary Real GDP Growth: Slower yet strong



2012

2013

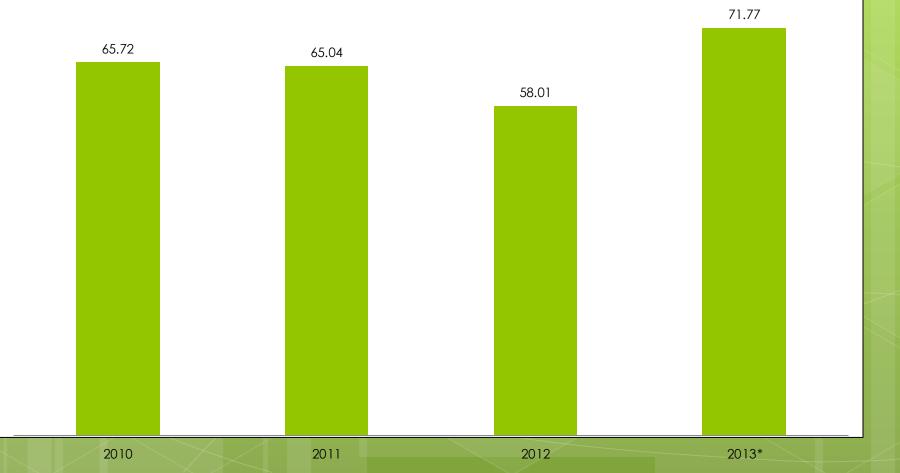
10/30/2014

## Macro Economic Summary: Strong Consumer Expenditure

11

**PFCE To GDP** 

PFCE To GDP



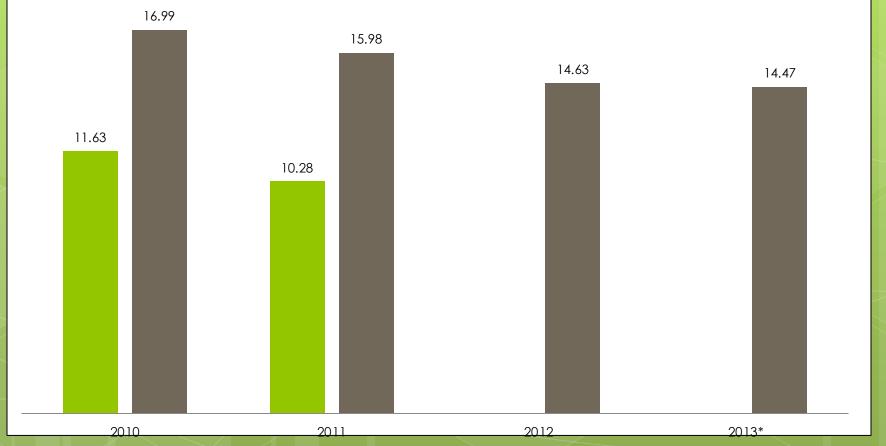
# Macro Economic Summary Higher Investments

12

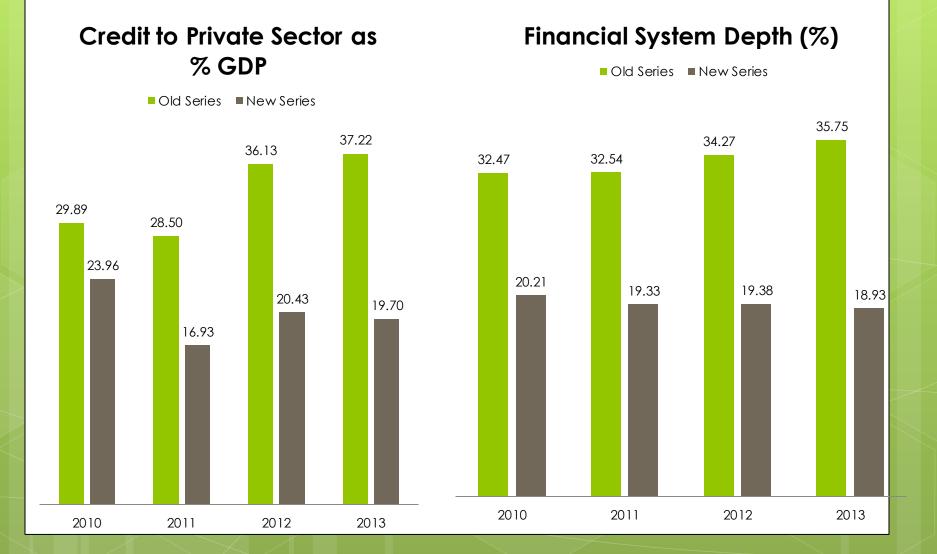
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#### Investments to GDP (Percentage)





# Financial and Monetary Ratios



# Fiscal Ratios

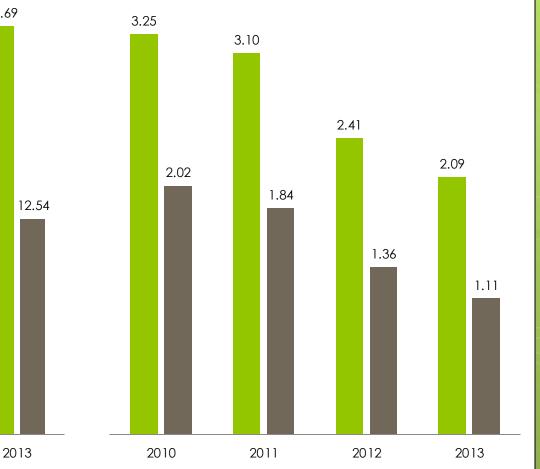
Debt to GDP (%)

■ Old Series ■ New Series

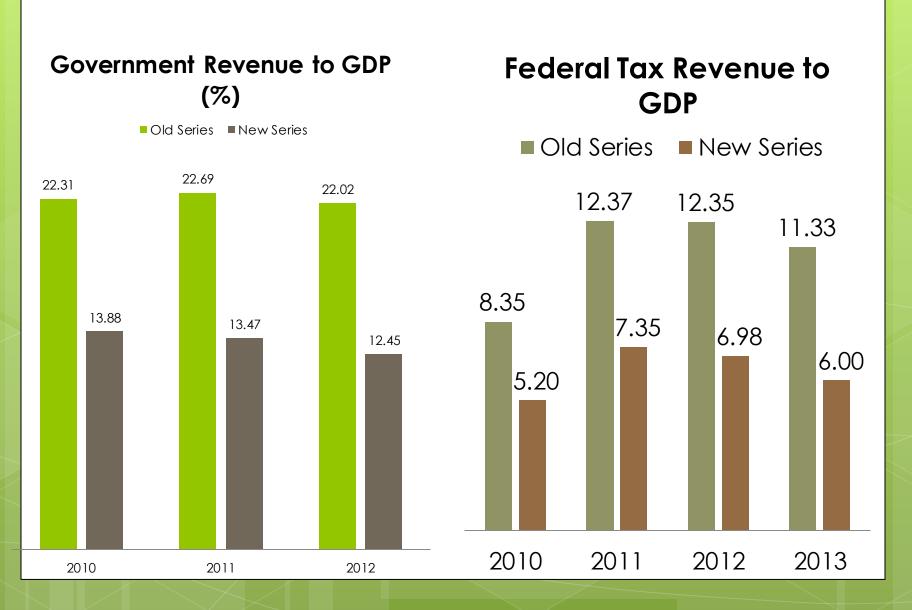
23.69 20.26 18.63 17.76 12.03 11.05 10.53 2010 2011 2012 2013

#### Fiscal Deficit to GDP (%GDP)

■ Old Series ■ New Series



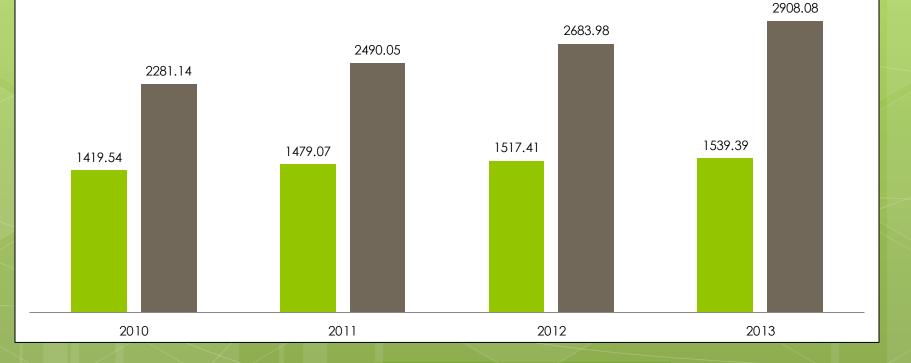
## **Fiscal Ratios**



# Socio Economic Ratios

#### Per-Capita GDP

Old Series New Series



### **GROWTH AND PER CAPITA GDP RANKINGS**

GDP and GDP per caita of top 10 economies, 2013, IMF

Rank	<u>Country</u>	<u>GDP USD trn\$</u>	<u>Rank</u>	<u>Country</u>	<u>GDP US\$</u>
1	United States	16.79	1	Qatar	98,814
2	China	9.18	2	Luxumbourg	78,670
3	Japan	4.9	3	Singaporre	64,584
4	Germany	3.63	4	Norway	54,947
5	France	2.73	5	Brunei	53,431
6	United Kingdom	2.53	6	Unites States	53,101
7	Brazil	2.24	7	Switzerland	46,430
8	Russia	2.11	8	Canada	43,472
9	Italy	2.07	9	Australia	43,073
10	India	1.87	10	Austria	42,597
26	Nigeria	0.5	121	Nigeria	2,689

Countries with the **highest GDP** are not necessarily the same countries with the **highest per capita GDP** 

...Except for the US

#### **GDP Growth vs. development**

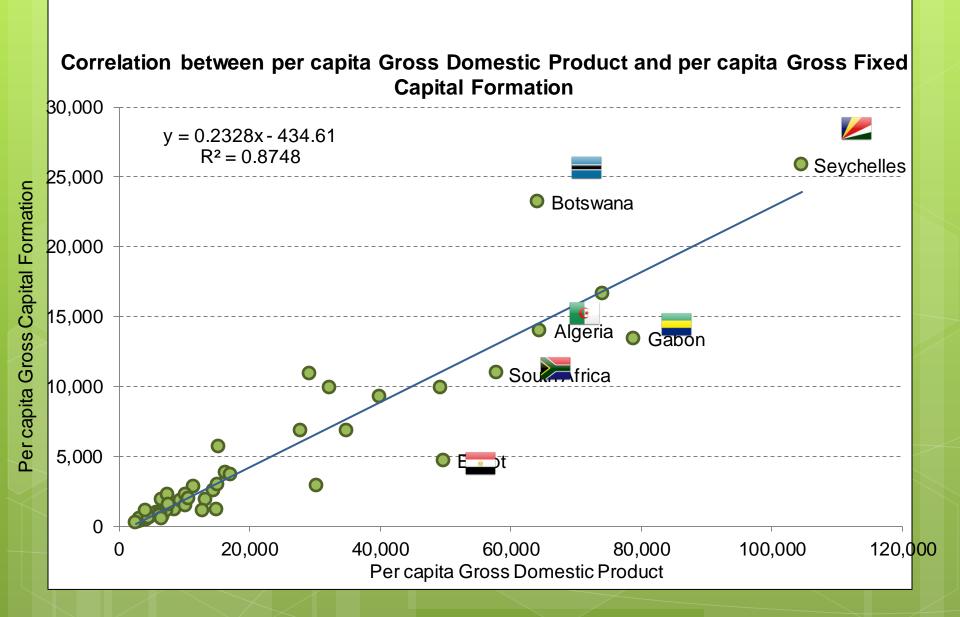
• GDP growth isn't synonymous with development

• ... but is required for Development

Infrastructure needed to stimulate inclusive growth and development:



#### **GDP** Growth vs. development



#### A. Non-Oil Revenue Mobilisation:

- Tax revenue to GDP ratio is about 22% for middle-income African countries, and is estimated at about 20% or higher for emerging economies.
- Nigeria's federal tax revenue to GDP ratio of 6% low in comparison.
- **B.** McKinsey & Co's diagnostic study revealed interesting findings, for example:
  - 65% of registered tax payers have not filed their returns for the past 2 years, and 75% of small and medium businesses are not currently in the tax system

#### C. Results: Revenue Collection is improving:

- Actual non-oil collection (FAAC and VAT revenue collection) for January to April 2014 was N521 billion.
- This represents N37 billion above the seasonally adjusted target based on 2011, 2012, and 2013 collections
- $\circ~$  May and June expected to outperform the previous 4 months

#### • Infrastructure provision

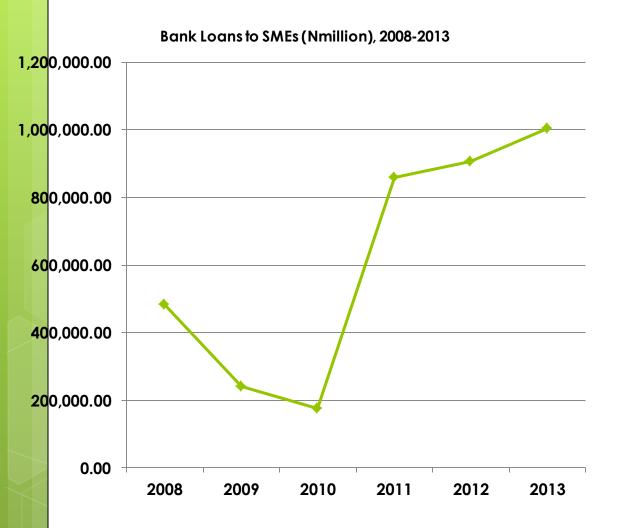
- Need for continuous public investment in infrastructure (Power)
- According to the NBS/SMEDAN report:
  - 39.8% of SMEs had to use alternative power sources for 5 hours
  - 34.9% of SMEs had to use alternative power sources for 6-10 hours
  - 13.3% of SMEs had to use alternative power sources for 11-15 hours
  - 12.0% of SMEs had to use alternative power sources for 16-20 hours
  - The rule of thumb for any developed industrial nation is that at least 1 gigawatt (i.e. 1,000 megawatts) of electricity generation and consumption is required for every 1 million head of population.
  - Ideal level is 160,000 MW

**Electricity Generation** 



#### Hydro Power Generation

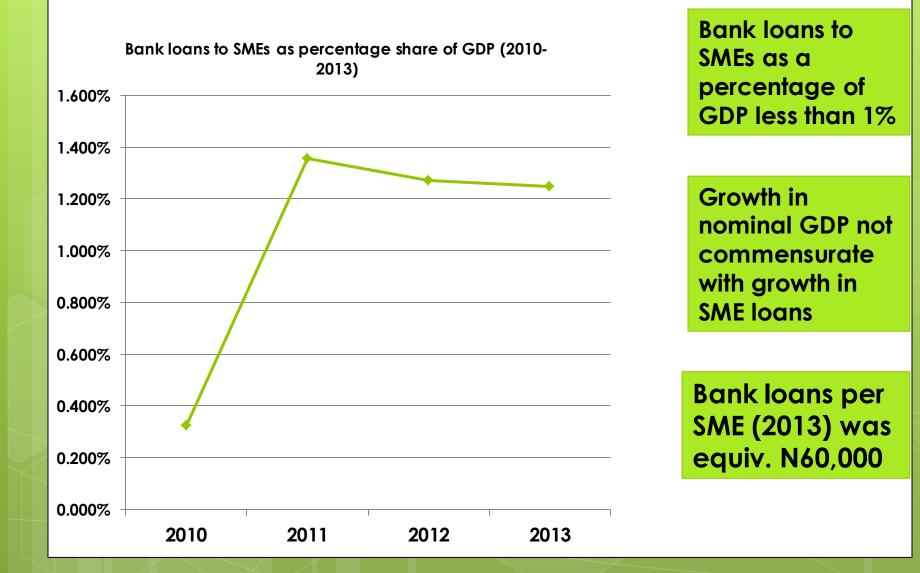
• Nine dams completed in: Akwa Ibom, Katsina, Enugu and Ondo States



Most firms captured in the GDP compilation framework are NOT listed on the Stock Exchange...

...but probably prefer bank loans despite high rates

Problem of information, regulation or difficulty with access to finance or all?



Financing still remains a key obstacle for businesses.

DMB Lending Rates: Q1 08- Q1 2014 30.00 25.00 20.00 15.00 10.00 5.00 0.00 Jan-10 Jan-09 Jan-11 Jan-12 Jan-13 Jan-08 Jan-14 -DMBs' Prime Lending Rate - DMBs' Maximum Lending Rate

As of Q1 2014 Spread between prime and maximum lending rate for DMB's id 9.11 Percentage points

This begs the question: How many DMB clients are in the Prime Category? vs how many are not?



SURVEY REPORT ON MICRO, SMALL AND MEDIUM ENTERPRISES (MSMEs) IN NIGERIA

PIELMINNI' ASPOST

2010 NATIONAL MSME COLLABORATIVE SURVEY



A COLLABORATION BETWEEN NATIONAL BUREAU OF STATISTICS (NBS) AND THE SMALL & MEDIUM ENTERPRISES DEVELOPMENT AGENCY OF NIGERIA (SMEDAN)





CBN launched at N220 billion SMES intervention Fund in 2013

Table 50 Rank of Problems Militate Against Enterprises Development in

Nigeria

Services	Rank							
	1	2	3	4	5	6	7	8
Lack of access to finance	13,273	2,200	1,168	607	406	228	268	19
Lack of work space	1,212	4,312	2,116	1,664	1,553	1,733	2,512	132
Weak infrastructure	2,619	5,435	4,493	1,851	1,487	830	586	66
Lack of entrepreneurship/vocational training	1,178	2,801	2,832	3,908	2,163	2,245	909	46
Obsolete equipment	884	1,526	2,005	2,403	4,061	2,597	1,640	54
Lack of access to research & development	875	1,392	2,329	2,892	2,646	3,302	1,903	113
Inconsistent policies	1,903	1,975	2,710	2,092	1,690	1,722	3,606	222
Transportation	501	619	357	222	230	166	392	1,270
Lack of gov't support	237	363	193	149	151	186	104	142

Rates: 9% Duration: Longer than traditional DMB loans

FGN New DFI

- New Zealand Transport Agency research report 497 (October 2012)
- A comparative study of three different transport modes (coastal shipping, rail and road) used to haul 20ft shipping containers
- Containers had been instrumented to allow real-time monitoring of time, location and impact forces

Transportation Mode	Fuel consur	nption (I/km)	CO2 emission rate (kg/km)			
	Der Vehiele	Der Centriner	DerVahiele	Per Container		
	Per Vehicle	Per Container	Per Vehicle	Container		
Road	0.193	0.193	0.509	0.509		
(40 containers/train)		0.106		0.311		
(25 containers/train)	4.25	0.17	12.431	0.497		
Maritime (ie coastal shipping)						
(550 containers/vessel)		0.094		0.274		
(297 containers/vessel)	51.476	0.173	150.719	0.507		

- The maritime mode is shown to be slightly more efficient in terms of fuel consumption and CO<sup>2</sup> emissions than the rail mode, and markedly better than the road mode.
- In fact, both maritime and rail modes are about twice as efficient as the road mode.
- As the journey distance increased, the cost difference between maritime, rail and road modes was shown to increase.

- Rehabilitation of the main Rail Lines (moribund for 15 years):
  - Western Line: Lagos Kano; 1,124km completed and functional
  - Work Ongoing on:
    - Eastern Line: Port-Harcourt Maiduguri (2 of 3 sections to be completed by 3<sup>rd</sup> quarter 2014)
    - Abuja Kaduna Standard Gauge Line (72 percent completed)
    - Itakpe Ajaokuta Warri Standard Gauge Rail Line (to be completed by end of 2014)
- Procured 25 new locomotives from General Electric (GE)
- 40 new oil tank wagons already lifting petroleum products
- Labour could be a curse or a gift: 1.8 million new entrants into the labour force every year, coupled with the existing stock of the unemployed.
- Perhaps use the labour to build rails as in East Africa in colonial times?



Utrican Yam

Sweet Potato

#### **Federal Ministry of Finance:**

■ ₩30 billion credit risk guarantee to Nigeria's commercial banks to support the supply of fertilizers and seed by the private sector

#### World Bank:

- US\$ 200 million to support the ATA for staple crop processing in the six geo-political zones
- US\$ 300 million support to Fadama and commercial agriculture

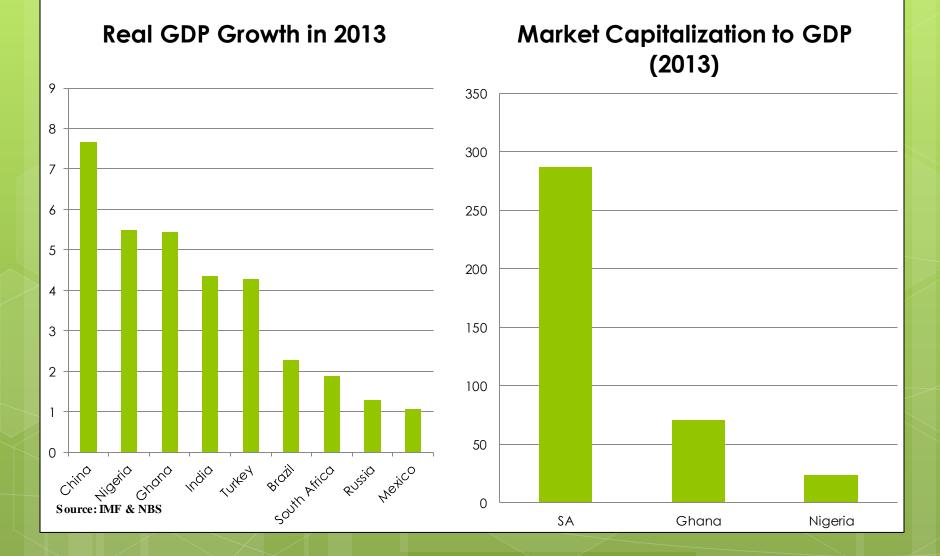
#### **China Exim Bank:**

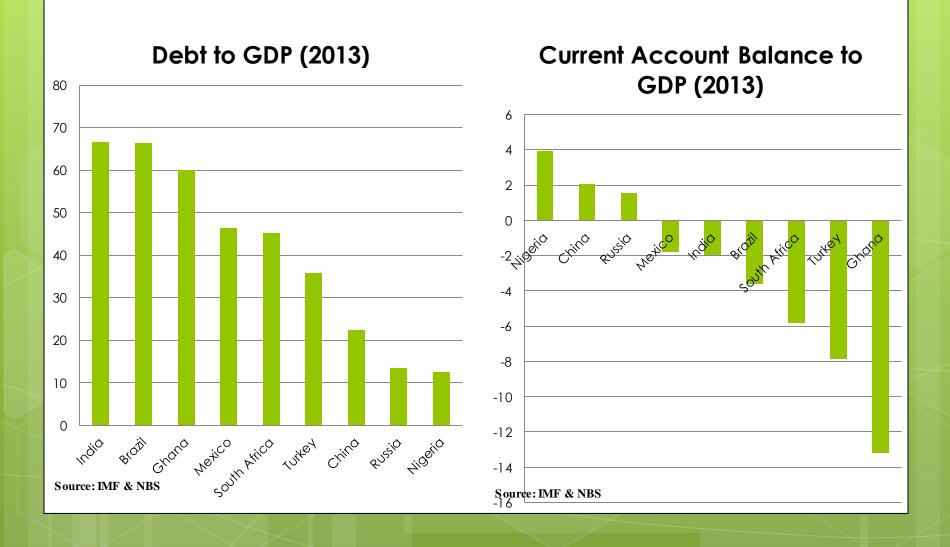
- **US\$ 500 million** importing 18 cassava processing mills and 40 rice processing units (under discussions)
- US\$ 75 million Rural Access and Mobility project

#### **IFAD**

- US\$73 Million Value Chain Development Programme
- US\$ 85 million Climate Change Adaptation and Agribusiness Support Programme.

## **Comparative Analysis**





## Conclusion

- The current administration has the vision, just needs to broaden scope.
- We Could greatly increase the tax base of the government which the CME is already working on
- This in turn will give us the ability to borrow more and expand our investments which will propel growth
- We have to increase expenditure on education and healththe bedrock for every society
- Financial deepening is key
- Government should also concentrate on making affordable loans available to the private sector- a key engine for growth.

#### THANK YOU FOR YOUR ATTENTION!

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