



**DEBT MANAGEMENT OFFICE  
NIGERIA**

**2017**  
**REPORT OF THE  
ANNUAL NATIONAL  
DEBT SUSTAINABILITY ANALYSIS  
(DSA)**



## TABLE OF CONTENTS

List of Table .....	v
List of Figures .....	vi
List of Boxes .....	vi
List of Annexures .....	vi
GLOSSARY .....	vii
EXECUTIVE SUMMARY .....	ix
<b>CHAPTER ONE.....</b>	<b>5</b>
<b>INTRODUCTION .....</b>	<b>5</b>
1.1 Policy Objectives .....	6
1.2 Methodology .....	7
1.3 Scope of the 2017 DSA Data Coverage .....	9
1.4 Benefits of 2017 DSA .....	10
<b>CHAPTER TWO.....</b>	<b>11</b>
<b>RECENT MACROECONOMIC DEVELOPMENTS.....</b>	<b>11</b>
2.1 External Developments.....	11
2.2 Domestic Developments .....	12
<b>CHAPTER THREE.....</b>	<b>15</b>
<b>PUBLIC DEBT PORTFOLIO REVIEW.....</b>	<b>15</b>
3.1 Nigeria's Total Public Debt Outstanding.....	15
3.2 FGN's Total Public Debt Service .....	17
3.3 Nigeria's External Debt Stock .....	18
3.4 Nigeria's External Debt Service.....	19
3.5 Federal Government of Nigeria's Domestic Debt Stock .....	20
3.6 FGN's Domestic Debt Service .....	20
3.7 States' & FCT's Domestic Debt by Maturity Structure .....	21
<b>CHAPTER FOUR .....</b>	<b>23</b>
<b>RISK ANALYSIS OF FGN'S TOTAL PUBLIC DEBT .....</b>	<b>23</b>
4.1 Introduction .....	23
4.2 Risk Analysis of FGN's Total Public Debt Portfolio .....	23



4.3	Average Cost of FGN's Portfolio .....	23
4.4	Interest Rate Risk .....	23
4.5	Refinancing Risk .....	24
4.6	Redemption Profile.....	24
4.7	Exchange Rate Risk.....	25
4.8	Credit Risk (FGN's On-lent Loans to MDAs) .....	28
4.9	FGN's Contingent Liabilities.....	28
<b>CHAPTER FIVE .....</b>		<b>31</b>
<b>UNDERLYING ASSUMPTIONS OF THE 2017 DSA .....</b>		<b>31</b>
5.1	Baseline Scenario Assumptions .....	31
5.2	Optimistic Scenario Assumptions.....	34
5.3	Pessimistic Scenario Assumptions.....	36
<b>CHAPTER SIX.....</b>		<b>39</b>
<b>RESULTS ANALYSIS.....</b>		<b>39</b>
6.0	Introduction .....	39
6.1	Baseline Scenario.....	40
6.2	Optimistic Scenario .....	42
6.3	Pessimistic Scenario .....	43
6.4	Determination of Borrowing Limit for 2018 .....	44
<b>CHAPTER SEVEN .....</b>		<b>47</b>
<b>SUMMARY OF KEY FINDINGS AND RECOMMENDATIONS .....</b>		<b>47</b>
6.1	Summary of Key Findings .....	47
6.1	Key Recommendations .....	47
<b>THE DSA TECHNICAL TEAM .....</b>		<b>59</b>

## LIST OF TABLES

Table 1:	Summary of External Debt Sustainability Assessment.....	xiv
Table 2:	Summary of Total Public Debt Sustainability Assessment (Federation – FGN, States and FCT) .....	xv
Table3:	Summary of Total Public Debt Sustainability Assessment.....	xvi
Table 4:	Summary of Total Public Debt Sustainability Assessment.....	xvi
Table 1.1:	Fiscal and External Debts Thresholds.....	8
Table 2.1:	Recent Macroeconomic Developments, 2012-2016.....	12
Table 3.1:	Nigeria’s Total Public Debt Outstanding, 2012-2016 .....	16
Table 3.2:	FGN’s Total Public Debt Service, 2012-2016 (US\$’ Million) .....	17
Table 3.3:	External Debt Outstanding by Source, 2012-2016 (US\$’ Million) .....	19
Table 3.4:	FGN’s External Debt Service, 2012-2016 (US\$’ Million).....	20
Table 3.5	FGN’s Domestic Debt Outstanding by Instruments, 2015 & 2016 (N’ Billion) .....	20
Table 3.6:	FGN’s Domestic Debt Service Payments, 2012 - 2016 (N’ Million).....	21
Table 3.7:	States’& FCT’s Domestic Debt by Maturity, 2012-2016 (N’ Million).....	22
Table 4.1:	Cost and Risk Indicators of FGN’s Total Public Debt Portfolio as at December 31, 2016.....	23
Table 4.2:	Currency Composition of External Reserves Assets as at December 31, 2016.....	26
Table 4.3:	Composition of External Debt & Reserve Assets as at December 31, 2016 (in percent) .....	27
Table 4.4:	FGN’s Contingent Liabilities, 2012-2016 (N’ Billion) .....	29
Table 6.1:	External Debt Sustainability Indicators in Percent (2017-2037) (Baseline Scenario) .....	40
Table 6. 2:	Total Public Debt Sustainability Indicators in Percent (2017-2037) (Baseline Scenario) .....	42
Table 6.3:	Total Public Debt Sustainability Indicators in Percent (2017-2037) (Optimistic Scenario) .....	43
Table 6.4:	Total Public Debt Sustainability Indicators in Percent (2017-2037) (Pessimistic Scenario).....	44

## LIST OF FIGURES

Figure 3.1: Trend in Nigeria's Total Public Debt Outstanding, 2012-2016 .....	17
Figure 3.2: Trends in FGN's Total Debt Service, 2012-2016 .....	18
Figure 3.3: Trends in FGN's Domestic Debt Service Payments, 2012-2016 (N' Billion) ...	21
Figure 4.1: External Debt Redemption Profile (US\$' Million) .....	24
Figure 4.2: Domestic Debt Redemption Profile (N' Million) .....	25
Figure 4.3: Currency Composition of External Debt as at December 31, 2016 .....	25
Figure 4.4: Currency Composition of External Reserves as at December 31, 2016 .....	27

## LIST OF BOXES

Box 5.1: Baseline Scenario Assumptions .....	31
Box 5.2: Optimistic Scenario Assumptions .....	34
Box 5.3: Pessimistic Scenario Assumptions .....	36

## LIST OF ANNEXURES

Annexure 1: Nigeria's External Debt Sustainability Indicators Under Alternative Scenarios, 2017-2037 .....	51
Annexure 2: Total Public Debt Sustainability Under Alternative Scenarios, 2017-2037 ....	52
Annexure 3: External Debt Sustainability Framework, Baseline scenario, 2014-2037 .....	53
Annexure 4: Sensitivity Analysis for Key Indicators of Public and Publicly Guaranteed External Debt, 2017-2037 (continued) .....	56
Annexure 5a: Public Sector Debt Sustainability Framework, Baseline Scenario, 2014-2037 .....	57
Annexure 5b: Sensitivity Analysis for Key Indicators of Public Debt 2017-2037 .....	58

## GLOSSARY

AMCON	Asset Management Corporation of Nigeria
ASI	All-Share Index
ATM	Average Time-to-Maturity
ATR	Average Time-to-Re-Fixing
BDC	Bureau De Change
BOF	Budget Office of the Federation
CBN	Central Bank of Nigeria
CHF	Swiss Franc
CPIA	Country Policy & Institutional Assessment
DDR	Debt Data Reconstruction
DSA	Debt Sustainability Analysis
DSF-LICs	Debt Sustainability Framework for Low Income Countries
DSF-MICs	Debt Sustainability Framework for Middle Income Countries
DMO	Debt Management Office
ECFA	External Creditors' Funding Account
FCT	Federal Capital Territory
FDIs	Foreign Direct Investments
FEC	Federal Executive Council
FGN	Federal Government of Nigeria
FMBNP	Federal Ministry of Budget and National Planning
FMF	Federal Ministry of Finance
FX	Foreign Exchange
GBP	British Pound Sterling
GDP	Gross Domestic Product
GIFMIS	Government Integrated Financial Management Information System
GNI	Gross National Income
ICM	International Capital Market
IGR	Internally Generated Revenue
IMF	International Monetary Fund
IPPIS	Integrated Payroll and Personnel Information System



ISPO	Irrevocable Standing Payment Order
JPY	Japanese Yen
M2	Broad Money Supply
MACs	Market Access Countries
Mbpd	Million Barrels Per Day
MDAs	Ministries, Departments and Agencies
MLT	Medium to Long-Term
MPR	Monetary Policy Rate
MTDS	Medium-Term Debt Management Strategy
MTEF	Medium-Term Expenditure Framework
NASS	National Assembly
NBS	National Bureau of Statistics
NIRP	National Industrial Revolution Plan
NPV	Net Present Value
NSE	Nigerian Stock Exchange
NTBs	Nigerian Treasury Bills
OAGF	Office of Accountant-General of the Federation
Pb	Per barrel
PENCOM	Pension Commission
PIB	Petroleum Industry Bill
PV	Present Value
SEC	Securities and Exchange Commission
SF	Sinking Fund
SPV	Special Purpose Vehicle
ST	Short-Term
TSA	Treasury Single Account
TTM	Term-To-Maturity
WAIFEM	West African Institute for Financial and Economic Management
WAMZ	West African Monetary Zone

## EXECUTIVE SUMMARY



## **I. Background**

1. Nigeria undertakes the conduct of the Debt Sustainability Analysis (DSA) exercise on an annual basis. It is an exercise that takes into consideration a country's ten-year historical macroeconomic data and twenty-year projected data to assess the level of risk of debt distress. The DSA Framework provides an objective assessment of debt sustainability in a given macroeconomic context, that outlines a country's fiscal and monetary stance under certain assumptions and conditions.

The exercise ensures that the nation's total Public Debt Portfolio is annually subjected to appropriate qualitative and quantitative analysis, by evaluating the country's repayment capacity for its current and future debt obligations, in order to ascertain the level of risk of debt distress.

The DSA assessment is usually in two parts - External and Fiscal. The External DSA covers the External Debt of the central government (FGN), States and the Federal Capital Territory (FCT), including government agencies' borrowings that are guaranteed by the FGN, and Private Sector External Debt (as may be available). The Fiscal DSA covers Total Public Debt-External and Domestic of the FGN, and the States, including FCT. The DSA assessment also includes Stress Tests, which is an in-built mechanism that subjects some of the key assumptions in the Baseline Scenario to various shocks. These include: real GDP growth rate, Primary Balance, Export growth rate, Exchange Rate depreciation, etc.

2. The outcome of last year's (2016) DSA exercise showed that Nigeria's debt position experienced some deterioration and slipped from a Low-risk of debt distress to a Moderate risk of debt distress. Although, the level of Total Public Debt Stock remained low relative to the country's Gross Domestic Product (GDP), the Debt Portfolio was largely vulnerable to significant decline in Revenue, Exports and substantial Currency Devaluation. The ratio of Total Public Debt-to-GDP rose from 13.02 percent in 2015 to 16.27 percent as at December 31, 2016, which was still within the Country's specific Debt Limit of 19.39 percent in the medium-term (up to December 31, 2017), and far below the World Bank/IMF's threshold of 56.00 percent for countries in Nigeria's peer-group. The ratio of Public Debt Service-to-Revenue at 33.94 percent as at December 31, 2016, was relatively higher reflecting low government revenue, in the face of lower oil revenue.



3. While Nigeria's Total Public Debt Stock is relatively low vis-à-vis the country's GDP, the increased funding requirements needed to sustain the Economic recovery, address the huge infrastructural deficit, as well as meet budget financing requirements, would entail enormous funding resources, including borrowing. Based on the Country's Economic Blue Print – the Economic Recovery and Growth Plan (ERGP), 2017-2020, which was launched in April 2017, fiscal deficit for the period is projected to average at 1.93 percent of GDP, which is still within the 3 percent stipulated by the Fiscal Responsibility Act, 2017. The proposed debt financing is expected to be in line with the country's Debt Management Strategy, 2016-2019, which aims at restructuring the debt portfolio, in such a way as to achieve an optimal mix of 60:40 (domestic to external), so as to also reduce overall Debt Servicing costs of the portfolio. Thus, the proposed funding plan in the current MTEF, 2018-2020, indicates a gradual increase in the share of foreign financing relative to domestic financing. This is expected to drastically reduce the overall cost of borrowing and also address the challenge of crowding out the private sector from the domestic debt market.

## **II. Methodology**

4. The 2017 DSA exercise adopted the latest version of the joint World Bank/IMF Debt Sustainability Framework for Low-Income Countries (DSF-LICs), which was released in August, 2015. The DSF for low-income countries is used mainly by countries with greater funding from concessional sources. The DSF-LIC provides indicative debt thresholds that reflect the quality of a Country's Policies and Institutions. It is based on the World Bank/IMF's Country Policy and Institutional Assessment (CPIA) index ranking, with a scale of 1 to 6, and classifies countries into one of the three policy performance categories: Weak Policy ( $CPIA < 3.25$ ); Medium Policy ( $3.25 \leq CPIA \leq 3.75$ ) and Strong Policy ( $CPIA > 3.75$ ), and applies different indicative debt thresholds, depending on the performance category. It is determined based on the quality of the country's Policies and Institutions, using a three-year average of its scores.
5. Nigeria is currently classified as a Medium Performer on the CPIA index, with a score of 3.41, along with such African countries as Ghana, Ethiopia, Sierra Leone and Mozambique. With Nigeria's recent reclassification as a Lower-Middle-Income country, with prospects of accessing more funding from the non-concessional windows including International Capital Market (ICM), it is expected to be assessed along with such countries as India, Indonesia, Morocco, Pakistan, Tunisia, Mauritania, Egypt and

Kenya. However, in view of the fact that the bulk of the country's Total Public Debt portfolio is at present largely Concessional, it would still be reasonable to adopt the revised and robust LIC-DSF Template that incorporates an expanded debt coverage, including both Concessional and Non-Concessional borrowings with provisions for country-specific tools for addressing peculiar country's circumstances, going forward. The new LIC Template is expected to be released in July, 2018.

6. The DSA framework classifies countries into four broad categories, according to their probability of Debt Distress. These are:
  - i. **Low Risk:** Where all the debt ratios under the Baseline scenario and Stress tests are well below their respective Thresholds.
  - ii. **Moderate Risk:** Where all the Debt Ratios under the Baseline Scenario are well below their respective Thresholds, but with just a breach in one of the Debt Ratios under the Stress test.
  - iii. **High Risk:** Where one or more Debt Ratios breach the Thresholds over a prolonged period under the Baseline Scenario and Stress tests.
  - iv. **In Debt Distress:** A situation where a country is already experiencing difficulties in servicing its debts, as evidenced, for example by the existence of arrears.
7. Relevant Ministries, Departments and Agencies (MDAs) were involved in the exercise and provided the required macroeconomic data used for the DSA. These data include the following:
  - i. Total Public Debt of the FGN, State Governments, and the FCT (External and Domestic) and the FGN's Contingent Liabilities - Debt Management Office;
  - ii. Monetary Sector Statistics and Private Sector External Debts- Central Bank of Nigeria;
  - iii. Pipeline External Loans and Projects - Federal Ministry of Finance;
  - iv. GDP and Inflation rates (Actual) - National Bureau of Statistics;
  - v. National Accounts Statistics – GDP (Nominal and Real), GDP Growth Rates, Inflation Rates (projected) - Federal Ministry of Budget and National Planning;
  - vi. Fiscal Accounts (projected) - Budget Office of the Federation; and,
  - vii. Fiscal Accounts (Actual) - Office of the Accountant-General of the Federation.

8. The 2017 DSA considered three main Scenarios, namely: Baseline, Optimistic and Pessimistic:
- i **The Baseline Scenario** is anchored on the 2017 Federal Government's annual Budget and its assumptions; as well as the provisional Medium-Term Expenditure Framework (MTEF), 2018-2020 (as it was yet to be approved by the National Assembly, at the time of the exercise).
  - ii **The Optimistic Scenario** is hinged on the Federal Government's Economic Blueprint – the Economic Recovery and Growth Plan (ERGP), with its ambitious growth prospects of 4.80% in 2018 and 7.00% by year 2020. The ERGP is expected to reverse and pull the economy out of recession, as well as re-launch it on the path of sustained growth, while stabilizing the Monetary, External and Fiscal environments.
  - iii **The Pessimistic Scenario** assumes a prolonged shock in crude oil price at about US\$30pb in 2017, which is maintained through 2019 and oil production at about 1.4 mbpd in 2017 and 2018, which is expected to marginally pick up to about 1.5mbpd in 2019 through 2037; a deterioration in fiscal and current account balances, as well as further depreciation of the Naira exchange rate.

## Baseline Scenario

### A. External Debt Sustainability

10. The External Debt analysis covers the external debt of the FGN and the 36 States, including the FCT. **The outcome of the analysis under the Baseline Scenario reveals that Nigeria's External Debt Portfolio remains at a Low Risk of Debt Distress.** The debt ratios are well below all of their respective thresholds throughout the projection period as shown in Table 1. External borrowing is projected to rise marginally between 2017 and 2033 and given Nigeria's current status as a Lower-Middle-Income country more funds are expected from the commercial sources, including the International Capital Market (ICM). Economic activities as measured by the GDP and Exports are projected to grow with increases in oil prices and production levels, which would impact positively on the revenue to government. It is also expected that infrastructure investments and various structural reforms that the government is implementing in the key sectors of the economy, will support Exports and boost productivity and overall economic growth.



11. The outcome of the Stress Tests, indicates that Nigeria's External Debt position is generally robust in the medium-term, while the impact of the shocks would lead to a deterioration of the revenue-based indicators in the long-term, if adequate measures are not taken to improve revenue and boost exports, as well as shore up the level of other forms of non-debt creating flows, such as Foreign Direct Investment (FDI). The most extreme stress tests are shown in Table 1. Over the period 2017–2027, a shock which combines lower GDP growth, weaker exports, a lower GDP deflator, and a fall in non-debt creating flows would weaken the export and revenue indicators. For instance, the ratio of External Debt-to-Exports moved upwards from 46.5 percent in 2017 to 188.5 percent in 2019. In the same manner, the ratio of External Debt-to-Revenue increased from 73.4 percent in 2017 to 157.4 percent in 2022. The ratios of External Debt Service-to-Exports and External Debt-Service-to-Revenue also deteriorated throughout the projection period. Thus, indicating that Nigeria's Total Debt portfolio is highly susceptible to Revenue shocks. There is, therefore the need to sustain the on-going reforms and initiatives aimed at boosting non-oil revenue by Government, which include the broadening of the tax base, increasing tax revenue collection, blocking of leakages, and the diversification of the economy. Some of these initiatives include the Voluntary Assets and Income Declaration Scheme (VAIDS)-a scheme that gives tax defaulters, limited tax amnesty to enable them regularise within a specified period their tax status, without incurring charges, penalties and exemption from prosecution; Electronic Payment and Filing System (e-Services) to cover e-Payments, e-Filing, e-Registration, e-Stamp Duty; Upward review of the excise duty rates for Alcoholic Beverages and Tobacco; and a review of the Pioneer Status, as part of efforts towards diversifying the economy.

**Table 1: Summary of External Debt Sustainability Assessment**

Details	Threshold	2017	2018	2019	2020	2021	2022	2027	2037
<b>External Debt Stock</b>									
<b>In percent of GDP</b>	<b>40</b>								
<i>Baseline</i>		4.9	5.2	5.5	5.8	5.9	6.1	6.1	3.7
<i>Combined shocks</i>		4.9	6.8	9.5	9.9	10.1	10.3	9.5	4.9
<b>In percent of Exports</b>	<b>150</b>								
<i>Baseline</i>		46.5	57.0	72.6	66.0	57.9	61.4	71.6	66.3
<i>Combined shocks</i>		46.5	91.1	188.5	167.9	146.5	153.0	160.4	118.9
<b>In percent of Revenue</b>	<b>250</b>								
<i>Baseline</i>		73.4	74.0	81.0	86.1	89.1	93.1	94.5	70.0
<i>Combined shocks</i>		73.4	96.4	141.4	147.9	152.6	157.4	147.4	93.0
<b>External Debt Service</b>									
<b>In percent of Exports</b>	<b>20</b>								
<i>Baseline</i>		2.2	3.9	3.4	4.0	5.3	5.1	8.0	10.0
<i>Combined shocks</i>		2.2	4.7	6.6	9.1	10.6	11.8	18.9	20.3
<b>In percent of Revenue</b>	<b>20</b>								
<i>Baseline</i>		3.4	5.0	3.8	5.3	8.2	7.7	10.6	10.5
<i>Combined shocks</i>		3.4	5.3	5.4	8.3	11.8	12.5	17.2	15.2

Source: 2017 DSA

Note: The Thresholds are determined periodically by the WB/IMF, based on the CPIA Rating Exercise.

## **B. Total Public Debt Sustainability - Fiscal Sustainability Analysis (The Federation – FGN, States and FCT)**

14. The analysis of the Fiscal Sustainability of the Federation covers the Domestic and External debt of the FGN, States and FCT, as well as their respective Revenues, including Internally Generated Revenues (IGRs). The Fiscal Sustainability has only one threshold for the ratio of Total Public Debt-to-GDP, which is set at 56 percent for countries in Nigeria's peer group. **The result shows that Total Public Debt-to-GDP ratio remains below its threshold throughout the projection period as shown in Table 2.** Meanwhile, the Revenue indicators - Total Public Debt to Revenue and Total Debt Service to Revenue do not have international thresholds, but rose from 290.4 percent in 2017 to 345.0 percent in 2022 and 44.9 percent in 2017 to 62.8 percent in 2027, respectively, after which they trended downward to 280.9 percent and 55.0 percent in 2037. These suggest that these indicators are vulnerable to revenue shocks.
15. The most extreme shocks which combine lower GDP growth, weaker exports, a lower GDP deflator and a fall in non-debt creating flows such as Foreign Direct Investments

(FDIs), would weaken the ratios of Total Public Debt-to-Revenue and Total Debt Service-to-Revenue throughout the projection period. Relative to the Baseline, the ratios of Total Public Debt-to-Revenue and Total Debt Service-to-Revenue rose considerably from 290.4 percent and 44.9 percent in 2017 to 1113.0 percent and 252.1 percent in 2037, respectively. Thus, reinforcing the need to further expand the revenue base of the country as earlier highlighted.

**Table 2: Summary of Total Public Debt Sustainability Assessment  
(Federation – FGN, States and FCT)**

Details	Threshold	2017	2018	2019	2020	2021	2022	2027	2037
<b>Total Public Debt Stock</b>									
<b>In percent of GDP</b>	<b>56</b>								
<i>Baseline</i>		19.8	20.9	21.2	21.9	22.5	22.9	22.8	15.0
<i>Combined shocks</i>		19.8	30.9	32.1	33.8	35.6	37.3	44.7	59.4
<b>In Percent of Revenue</b>	<b>Nil</b>								
<i>Baseline</i>		290.4	293.2	309.9	320.2	333.6	345.0	349.9	280.9
<i>Combined shocks</i>		290.4	431.8	467.6	494.7	528.1	561.6	685.5	1113.0
<b>Total Public Debt Service</b>									
<b>In Percent of Revenue</b>	<b>Nil</b>								
<i>Baseline</i>		44.9	46.2	47.0	48.9	53.9	55.0	62.8	55.0
<i>Combined shocks</i>		44.9	46.1	69.7	85.6	97.4	104.2	141.4	252.1

Source: 2017 DSA

Note: Under the Fiscal Sustainability, the WM/IMF threshold is only applicable to the Total Public Debt to GDP, which is set at 56 percent.

In the light of the foregoing, it is very evident that Nigeria's Total Public Debt portfolio is highly susceptible to Revenue shocks. Therefore, there is the need for concerted efforts to ensure faithful and effective implementation of the various on-going initiatives and interventions aimed at diversifying the sources of Government's revenue away from oil.

### Optimistic Scenario

The Optimistic Scenario assumes the full implementation of the ERGP, the outcome of which resulted in a much stronger and robust Total Public debt ratios. The supposedly improved output and revenue favourably impacted on the debt indicators as the ratio of Total Public Debt-to-GDP declined steadily from 16.9 percent in 2017 to as low as 4.4 percent at the end of the projection period in 2037 (Table 3). Similarly, the ratio of Total Debt Service-to-Revenue declined from 44.5 percent in 2017 to 17.3 percent in 2037.

**Table3: Summary of Total Public Debt Sustainability Assessment**

Details	Threshold	2017	2018	2019	2020	2021	2022	2027	2037
<b>Total Public Debt Stock</b>									
<b>In percent of GDP</b>	<b>56</b>								
<i>Baseline</i>		16.9	17.5	16.9	16.7	16.7	16.2	12.0	4.4
<i>Combined shocks</i>		16.9	27.4	27.5	28.0	28.7	28.8	28.1	30.7
<b>In Percent of Revenue</b>	<b>NIL</b>								
<i>Baseline</i>		359.6	359.3	384.4	357.1	360.4	357.5	287.6	139.9
<i>Combined shocks</i>		359.6	563.2	625.8	596.9	618.3	637.3	674.0	974.4
<b>Total Public Debt Service</b>									
<b>In Percent of Revenue</b>	<b>NIL</b>								
<i>Baseline</i>		44.5	43.3	45.2	42.5	45.8	43.4	35.7	17.3
<i>Combined shocks</i>		44.5	43.2	84.1	83.5	99.9	106.1	123.6	218.3

Source: 2017 DSA

Note: Under the Fiscal Sustainability, the WB/IMF threshold is only applicable to the Total Public Debt to GDP, which is set at 56 percent.

### Pessimistic Scenario

With the assumption of a persistent decline in crude oil price (to as low as USD30pb) and quantity production, as well as further deterioration in other macroeconomic indicators, including the Naira Exchange Rate, the Debt Ratios deteriorated. The resulting low revenue from such a challenged economy adversely affected the debt indicators such that the ratio of Total Public Debt-to-Revenue significantly worsened from 352.3 percent in 2017 to 550.7 percent by 2037, so also was the ratio of Debt Service-to-Revenue, which deteriorated from 39.9 percent in 2017 to 120.6 percent at the end of the projection period (Table 4).

**Table 4: Summary of Total Public Debt Sustainability Assessment**

Details	Threshold	2017	2018	2019	2020	2021	2022	2027	2037
<b>Total Public Debt Stock</b>									
<b>In percent of GDP</b>	<b>56</b>								
<i>Baseline</i>		17.2	17.9	18.5	19.0	19.6	20.0	19.3	10.5
<i>Combined shocks</i>		17.2	27.8	29.5	31.2	33.0	34.8	43.1	63.6
<b>In Percent of Revenue</b>	<b>NIL</b>								
<i>Baseline</i>		352.3	389.4	428.8	449.1	470.1	492.4	520.2	550.7
<i>Combined shocks</i>		352.3	605.2	681.8	735.4	792.3	859.4	1161.8	3329.3
<b>Total Public Debt Service</b>									
<b>In Percent of Revenue</b>	<b>NIL</b>								
<i>Baseline</i>		39.9	46.2	49.7	55.1	63.4	65.5	80.7	120.6
<i>Combined shocks</i>		39.9	46.2	86.0	119.2	139.0	152.4	236.6	828.5

Source: 2017 DSA

Note: Under the Fiscal Sustainability, the WB/IMF threshold is only applicable to the Total Public Debt to GDP, which is set at 56 percent.



## Summary of Findings

- a. The outcome of the analyses under the Baseline Scenario, revealed that Nigeria's External Debt portfolio remained at a Low Risk of Debt Distress, as the debt ratios were well below all of their respective thresholds throughout the projection period.
- b. The Fiscal Sustainability Analysis for the Federation (Federal, States and FCT) showed that the ratio of Total Public Debt-to-GDP remained below its threshold throughout the projection period. The ratio of Total Public Debt-to-GDP for 2017 was projected at 19.80 percent.
- c. Both the External and Fiscal Sustainability Analyses showed that all the Revenue indicators (the ratios of Debt-to-Revenue and Debt Service-to-Revenue) deteriorated under varying shocks, suggesting that any prolonged shocks on the revenue would lead to Debt Distress in the medium to long-term, except other sources of revenue are speedily developed to enhance the revenue generation performance of the country
- d. Under the Optimistic Scenario, the debt indicators showed remarkable improvements, while under the Pessimistic Scenario, all the indicators weakened throughout the projection period.

## Conclusion

**The result of the 2017 DSA exercise showed that Nigeria's risk of debt distress remained Moderate, indicating a breach of the Threshold by just one of the Debt Portfolio Indicators (Total Public Debt Service to Revenue), when the portfolio is subjected to shocks (Stress Tests). It further highlighted the vulnerability of the Debt Portfolio to shocks in Revenue and Exports, as well as substantial Currency devaluation.**

## Key Recommendations

The key policy recommendations of the 2017 DSA exercise are as follows:

### Borrowing Limit

- i. Considering the fact that the present Country-Specific threshold for Total Public Debt-to-GDP ratio of 19.39 percent elapses by December 31, 2017, even when the international threshold is 56 percent for countries in Nigeria's peer group, **it has become imperative that the self-imposed debt limit of 19.39 percent be**

**reviewed upwards to a more prudent and optimal level of 25 percent in the medium-term of 2018-2020.** The proposed new limit would afford the Government an ample room to mobilise additional resources to fund investment projects that would facilitate the turnaround of the economy, in line with the aspirations of the ERGP, without jeopardising the country's debt sustainability.

- ii. In order to estimate the borrowing limit for 2018, it requires the determination of the difference between the proposed Country-Specific Threshold of 25 percent and the end-period Total Public Debt-to-GDP ratio for 2017 for the Federation, projected at 19.80 percent. Therefore, the fiscal borrowing space left for the three-year period is 5.2 percent (i.e. 25.00 percent less 19.80 percent), and based on the projected 2018 GDP of US\$360.6 billion, the quantum of borrowing for 2018 will be 1.73 percent of US\$360.6 billion, which translates to US\$6.25 billion. **Therefore, the maximum amount that could be borrowed (Domestic and External) for the fiscal year-2018 by the Government without violating the proposed Country-Specific Threshold of 25 percent up to 2020 would be US\$6.25 billion or ₦1,906.37 billion (at ₦305/US\$1).** Accordingly, for the fiscal year 2018, the maximum amount of US\$6.25 billion that could be borrowed is proposed to be sourced equally (50:50) from the Domestic and External sources, respectively, as follows:

- **New Domestic Borrowing US\$3.125 billion (equivalent of about ₦953.18 billion); and,**
- **New External Borrowing: US\$3.125 billion (equivalent of about ₦953.18 billion).**

It is worthy to note that the borrowing space is a function of the size of the GDP, and these recommended limits are meant to provide a guide to Government's borrowing activities for 2018, which would ensure that the self-imposed Debt Limit is not unduly breached.

### **Boosting Revenue Generation**

- iii. In line with the efforts at boosting non-oil revenue, Government is encouraged to sustain the on-going initiatives aimed at broadening the tax base and increasing tax revenue collection and blocking leakages, and diversification of the economy. Some of these initiatives have earlier been highlighted.
- iv. Given that in the short to medium-term, oil would still remain a key revenue earner, the Federal Government is encouraged to further strengthen its machinery for achieving

sustained peace and stability in the Niger Delta region of the country. This has become inevitable in view of the need to ensure steady and uninterrupted crude oil exploration and production in the region.

- v. As part of the long-term initiatives for diversifying the economy and boosting non-oil revenue, the Federal Government is also encouraged to fast-track the implementation of its reforms in the Solid Minerals sector of the economy such as the establishment of the Solid Minerals Development Fund and to formalise Artisanal and Small-Scale Mining activities by automating Mining Cadastral Office operations etc. This will facilitate the opening up of this critical sector and make it more competitive, and revenue generating. It is expected that the increased revenue from this sector would favourably impact on public debt, by reducing Government borrowing needs and public debt stock in the long-term.
- vi. In order to enable Government raise fresh funds to supplement its revenue for capital investments, Government is encouraged to privatise some of its viable enterprises and have them listed on The Nigerian Stock Exchange. Hence, the need for Government to sustain the on-going efforts aimed at reforming, restructuring and repositioning some of these enterprises for privatization or commercialization, including the Nigerian Postal Services (NIPOST), Nigerian Commodities Exchange, Lagos International Trade Fair Complex, National Stadium and Nigerian Security and Minting Company (NSPMC). Aside saving government huge budgetary funds usually allocated for such entities annually, it will lead to wealth redistribution through public ownership of enterprises, as well as facilitate further deepening of the domestic capital market.
- vii. As part of the on-going initiatives at attracting new investments into the economy and create new jobs, the Government is further encouraged to sustain its current efforts at implementing the Ease of Doing Business reforms, under the Presidential Enabling Business Environment Council (PEBEC). This will help to boost non-debt creating investments such as FDIs, which will enhance the generation of tax revenue, and thus, a reduction in government borrowing in the long-term.

### **Optimizing Efficiency in Expenditure**

- viii. There is need to sustain Government's initiatives at reducing wastages through plugging of leakages and fostering fiscal transparency, by strengthening the Efficiency Unit in the Federal Ministry of Finance. In addition, there is the need to fast-track the implementation of the Integrated Payroll and Personnel Information System (IPPIS)

across the government MDAs to automate personnel records and salaries' payment process.

- ix. In view of the uncertainty around the resources accruing to all tiers of Government, as a result of the various shocks in the economy, State Governments need to be encouraged to implement effective fiscal reforms including the States' 22-Point Fiscal Sustainability Plan (FSP), aimed at achieving improved accountability and transparency, increase public revenue, rationalise public expenditure, improve public financial management and manage debt sustainably at the sub-national level. This is expected to largely curtail the over-dependence on federal allocations and occasional Federal Government's bail-outs.

### **Increase Investment in Critical Infrastructure to Promote the Development of the Real Sector**

- x. As part of efforts at mobilising additional financing for infrastructure development, there is need to encourage credible Private Sector entities, to invest in infrastructure through the issuance of Sovereign Guarantees to priority sector areas, with high-impact on the economy.
- xi. There is also the need to creatively explore other alternative and viable sources of financing critical infrastructure projects, through Public-Private Partnership (PPP) arrangements – particularly Concessioning schemes to attract Private Sector to participate in the delivery of viable infrastructural projects, as well as the use of Project-tied Bonds such as Infrastructural Bonds and the Sukuk.

### **Upscale Capacity Building for Sub-nationals**

- xii. As part of efforts at enhancing overall public debt sustainability of the Federation (Federal and States), it is imperative to ensure the sustenance of the on-going DMO's capacity building initiatives for the Sub-nationals (States), so as to upscale their technical competence and skills in public debt management. This would help to enhance public debt management practices at the sub-national level, and thus, help realise overall public debt sustainability.

## CHAPTER ONE

### INTRODUCTION

Nigeria undertakes the conduct of the Debt Sustainability Analysis (DSA) exercise on an annual basis. It is an exercise that takes into consideration a country's ten-year historical macroeconomic data and twenty-year projected data to assess the level of risk of debt distress. The DSA Framework provides an objective assessment of debt sustainability in a given macroeconomic context, that outlines a country's fiscal and monetary stance under certain assumptions and conditions.

The exercise ensures that the nation's total Public Debt Portfolio is annually subjected to appropriate qualitative and quantitative analysis, by evaluating the country's repayment capacity for its current and future debt obligations, in order to ascertain the level of risk of debt distress.

The outcome of last year's (2016) DSA exercise showed that Nigeria's debt position experienced some deterioration and slipped from a Low-risk of debt distress to a Moderate risk of debt distress. Although, the level of Total Public Debt Stock remained low relative to the country's Gross Domestic Product (GDP), the Debt Portfolio was largely vulnerable to significant decline in Revenue, Exports and substantial Currency Devaluation. The ratio of Total Public Debt-to-GDP rose from 13.02 percent in 2015 to 16.27 percent as at December 31, 2016, which was still within the Country's specific Debt Limit of 19.39 percent in the medium-term (up to December 31, 2017), and far below the World Bank/IMF's threshold of 56.00 percent for countries in Nigeria's peer-group. The ratio of Public Debt Service-to-Revenue at 33.94 percent as at December 31, 2016, was relatively higher reflecting low government revenue, in the face of lower oil revenue.

While Nigeria's Total Public Debt Stock is relatively low vis-à-vis the country's GDP, the increased funding requirements needed to sustain the Economic recovery, address the huge infrastructural deficit, as well as meet budget financing requirements, would entail enormous funding resources, including borrowing. Based on the Country's Economic Blue Print – the Economic Recovery and Growth Plan (ERGP), 2017-2020, which was launched in April 2017, fiscal deficit for the period is projected to average at 1.93 percent of GDP, which is still within the 3 percent stipulated by the Fiscal Responsibility Act, 2017. The proposed debt financing is expected to be in line with the country's Debt Management Strategy, 2016-2019, which aims at restructuring the debt portfolio, in such a way as to achieve an optimal mix of 60:40

(domestic to external), so as to also reduce overall Debt Servicing costs of the portfolio. Thus, the proposed funding plan in the current MTEF, 2018-2020, indicates a gradual increase in the share of foreign financing relative to domestic financing. This is expected to drastically reduce the overall cost of borrowing and also address the challenge of crowding out the private sector from the domestic debt market.

The 2017 National Debt Sustainability Analysis (2017 DSA) Workshop was organised by the Debt Management Office (DMO) from August 21-30, 2017, in collaboration with relevant Ministries, Departments and Agencies (MDAs), namely: the Federal Ministry of Finance (FMF), Central Bank of Nigeria (CBN), Federal Ministry of Budget and National Planning (FMBNP), Budget Office of the Federation (BOF), National Bureau of Statistics (NBS), and the Office of the Accountant-General of the Federation (OAGF) and Securities and Exchange Commission (SEC). The West African Institute for Financial and Economic Management (WAIFEM), as in the past, provided technical support.

The 2017 DSA considered three main scenarios, namely: Baseline, Optimistic and Pessimistic:

- i. **The Baseline Scenario** is anchored on the 2017 Federal Government's annual Budget and its assumptions; as well as the provisional Medium-Term Expenditure Framework (MTEF), 2018-2020 (as it was yet to be approved by the National Assembly, at the time of the exercise).
- ii. **The Optimistic Scenario** is hinged on the Federal Government's Economic Blue-Print – the Economic Recovery and Growth Plan (ERGP), with its ambitious growth prospects of 4.80% in 2018 and 7.00% by year 2020. The ERGP is expected to reverse and pull the economy out of recession, as well as re-launch it on the path of sustained growth, while stabilizing the Monetary, External and Fiscal environments.
- iii. **The Pessimistic Scenario** assumes a prolonged shock in crude oil price at about US\$30pb in 2017, which is maintained through 2019 and oil production at about 1.4 mbpd in 2017 and 2018, which is expected to marginally pick up to about 1.5mbpd in 2019 through 2037; a deterioration in fiscal and current account balances, as well as further depreciation of the Naira exchange rate.

## 1.1 Policy Objectives

The purpose of the 2017 DSA is to assess the country's capacity to finance its policy objectives and service its current and future debt obligations, without unduly large adjustments, which

may compromise its macroeconomic stability, growth and development. The policy objectives include, to:

- i. update the 2016 DSA, in the light of the improvements recorded in the growth of oil revenue attributed to stabilizing commodities prices and foreign exchange risks;
- ii. assess the current and future public debt portfolio of the country, in view of the anticipated borrowing by the present Administration to fund critical infrastructure;
- iii. identify any vulnerabilities in the debt portfolio or government's policy framework and proffer corrective measures;
- iv. guide the government in its borrowing decisions, so as to ensure that the government's financing needs and future repayment ability are taken into account;
- v. advise the government on its borrowing limits and financing options for 2018;
- vi. provide inputs into the national budget and information necessary for updating the Medium-Term Expenditure Framework (MTEF); and,
- vii. align the 2017 DSA with the subsisting Debt Management Strategy, which aims at achieving strategic debt composition of 60:40 ratio for domestic and external debts, respectively, as well as attaining the domestic debt mix of 75:25 ratio for long to short-term debts, by the end of the strategy period in 2019.

## 1.2 Methodology

The 2017 DSA exercise adopted the latest version of the joint World Bank/IMF Debt Sustainability Framework for Low-Income Countries (DSF-LICs), which was released in August, 2015. The DSF for low-income countries is used mainly by countries with greater funding from concessional sources. The DSF-LIC provides indicative debt thresholds that reflect the quality of a Country's Policies and Institutions. It is based on the World Bank/IMF's Country Policy and Institutional Assessment (CPIA) index ranking, with a scale of 1 to 6, and classifies countries into one of the three policy performance categories: Weak Policy ( $CPIA < 3.25$ ); Medium Policy ( $3.25 \leq CPIA \leq 3.75$ ); and, Strong Policy ( $CPIA > 3.75$ ), and applies different indicative debt thresholds, depending on the performance category. It is determined based on the quality of the country's Policies and Institutions, using a three-year average of its scores.

Nigeria is currently classified as a Medium Performer on the CPIA index, with a score of 3.41, along with such African countries as Ghana, Ethiopia, Sierra Leone and Mozambique. With Nigeria's recent reclassification as a Lower-Middle-Income country, with prospects of

accessing more funding from the non-concessional windows including International Capital Market (ICM), it is expected to be assessed along with such countries as India, Indonesia, Morocco, Pakistan, Tunisia, Mauritania, Egypt and Kenya. However, in view of the fact that the bulk of the country's Total Public Debt portfolio is at present largely Concessional, it would still be reasonable to adopt the revised and robust LIC-DSF Template that incorporates an expanded debt coverage, including both Concessional and Non-Concessional borrowings with provisions for country-specific tools for addressing peculiar country's circumstances, going forward. The new LIC Template is expected to be released in July, 2018.

Accordingly, the debt burden thresholds comprise: one solvency threshold for the fiscal block (combined external and domestic debt), which is the: Present Value (PV) of Total Public Debt-to-GDP ratio set at 56 percent for countries in Nigeria's peer group. In addition, there are five (5) Debt Burden Indicators in the external block – three (3) Solvency and two (2) Liquidity measures (Table 1.1). The solvency measures comprise the PV of External Debt-to-GDP ratio, 40 percent; the PV of External Debt-to-Revenue ratio, 250 percent; and, the PV of External Debt-to-Exports ratio, 150 percent. The liquidity thresholds include the External Debt Service-to-Revenue ratio, 20 percent and the External Debt Service-to-Exports ratio, 20 percent.

**Table 1.1: Fiscal and External Debts Thresholds**

Qualities of Policies and Institutions (CPIA)	Solvency Ratios				Liquidity Ratios	
	Fiscal	External	External	External	External	External
	NPV of Debt as a % of				Debt Service as a % of	
	GDP	GDP	Revenue	Export	Revenue	Export
Weak	38	30	200	100	25	15
<b>Medium</b>	<b>56</b>	<b>40</b>	<b>250</b>	<b>150</b>	<b>20</b>	<b>20</b>
Strong	74	50	300	200	35	25

Source: World Bank/IMF

In the 2017 DSA, the country's debt sustainability was assessed based on the Baseline, Optimistic and Pessimistic scenarios for over a 20-year projection period, 2017-2037, under various assumptions. The outcomes of the exercise were used to compare the country's debt sustainability indicators against internationally established debt burden thresholds, which measure the solvency and liquidity positions of the country.

The DSA framework classifies countries into four broad categories, according to their probability of Debt Distress. These are:



- i. **Low Risk:** Where all the debt ratios under the Baseline scenario and Stress tests are well below their respective Thresholds.
- ii. **Moderate Risk:** Where all the Debt Ratios under the Baseline Scenario are well below their respective Thresholds, but with just a breach in one of the Debt Ratios under the Stress test.
- iii. **High Risk:** Where one or more Debt Ratios breach the Thresholds over a prolonged period under the Baseline Scenario and Stress tests.
- iv. **In Debt Distress:** A situation where a country is already experiencing difficulties in servicing its debts, as evidenced, for example by the existence of arrears.

### 1.3 Scope of the 2017 DSA Data Coverage

The scope of data coverage comprised Total Public Debt of the FGN, debt of the State Governments, including FCT (External and Domestic). The FGN's Contingent Liabilities and Private Sector external debts were also included, because of their wider implications for public debt sustainability. These data were incorporated in the analysis to further enhance the robustness of the 2017 DSA exercise. The domestic debt data of State Governments for 2016 was used in the baseline debt data. The analytical tool provided macroeconomic indicators and variables across the four sectors of the economy (Real, Fiscal, Monetary and External), which are as follows:

- i. Total Public Debt of the FGN, State Governments, and the FCT (External and Domestic) and the FGN's Contingent Liabilities - Debt Management Office;
- ii. Monetary Sector Statistics and Private Sector External Debts- Central Bank of Nigeria;
- iii. Pipeline External Loans and Projects - Federal Ministry of Finance;
- iv. GDP and Inflation rates (Actual) - National Bureau of Statistics;
- v. National Accounts Statistics – GDP (Nominal and Real), GDP Growth Rates, Inflation Rates (projected) - Federal Ministry of Budget and National Planning;
- vi. Fiscal Accounts (projected) - Budget Office of the Federation; and,  
Fiscal Accounts (Actual) - Office of the Accountant-General of the Federation

The analysis was conducted using 10-year historical data<sup>1</sup>, which was projected for twenty (20) years to 2037, using 2016 data as base year, and 2017 as the first year of projection.

<sup>1</sup> Nigeria, like many low-income countries uses cash basis of accounting, which limits the DSA data to only actual cash flows, as against the accrual accounting principle that recognizes non-cash based assets. Hence, net-worth basis was not considered. However, relevant agencies of the FGN are understudying ways and means of IPAS application.

This is based on the perspective that debt sustainability analysis is a forward-looking concept that requires long-term projections.

#### **1.4 Benefits of 2017 DSA**

The outcomes of the 2017 DSA exercise provide the status of the Nigeria's debt sustainability compared to international thresholds and other debt and macroeconomic indicators. The benefits to be derived from conducting 2017 DSA, include the following:

- i. to evaluate the solvency and liquidity status of the country's total public debt portfolio, taking into account current and future debt service obligations;
- ii. to determine the fiscal space available to the government for meeting its funding requirements with a view to determining the borrowing limit, given the current debt level;
- iii. to guide the government on optimal funding options for its projects and programmes;
- iv. to detect current and potential future fiscal stress that might be caused by external shocks with a view to preventing and resolving the crises;
- v. to evaluate the risks inherent with the current total debt portfolio and proffer mitigating measures; and,
- vi. to examine the impact of on-going fiscal policy reforms of the present government and monetary policy objectives of the CBN on public debt management strategies and provide policy advice in these regards.

This Report is divided into seven chapters, with the introduction as chapter one. Chapter two presents the recent macroeconomic developments in the global and domestic economies, as well as provides the future outlook. Chapter three provides analyses of the country's outstanding debt portfolio as at December 31, 2016, while chapter four reviews the risks associated with the total public debt portfolio of the FGN. Chapter five outlines the assumptions underpinning the Baseline, Optimistic and Pessimistic Scenarios used in the exercise. Chapter six analyses the results of the data simulation exercises, contains the determination of borrowing limit of the FGN for 2018, while Chapter seven presents the key findings and recommendations of the 2017 DSA exercise.

## CHAPTER TWO

### RECENT MACROECONOMIC DEVELOPMENTS

#### 2.1 External Developments

The global economy grew at the 3.2 percent in 2016, a slight improvement over the 3.1 percent in 2015. The lackluster performance in 2016 reflected the weaker-than-expected economic activity in the United States and slowdown in China, as well as the Brexit vote, which created economic, political and institutional uncertainties in the United Kingdom and the rest of the European Union. Growth in the emerging market and developing economies remained uneven and weak in 2016, as large economies in the sub-Saharan Africa such as Nigeria and Angola experienced recession, exacerbated by low commodity prices in conjunction with difficult domestic political and economic conditions.

Recovery is projected to pick up in 2017, as outlook improves for emerging market and developing economies and the U.S. economy continues to gain momentum. The global growth forecasts for 2017 and 2018 were projected at 3.5 and 3.6 percent, respectively (July 2017 IMF's World Economic Outlook). Economic activity for advanced economies was projected at 2.0 percent in 2017, up from 1.7 percent in 2016. The emerging market and developing economies are projected to grow from 4.3 percent in 2016 to 4.6 percent in 2017, and 4.8 percent in 2018. The economies of emerging and developing Europe, is projected to pick up from 3.0 percent in 2016 to 3.5 percent in 2017, primarily driven by a higher growth forecast for Turkey and gradual recovery in Russia. The growth forecast for the U.S. economy for 2017 was projected at 2.1 percent, an increase of 0.5 percent over the 2016 growth rate, due to a moderate pick up in economic activity, while the Euro area economies is expected to record a modest growth of 1.9 percent in 2017, up from 1.8 percent 2016. China's growth is expected to remain at 6.7 percent 2017, the same level as in 2016, reflecting a delay in the needed fiscal adjustment, especially the economy's transition away from reliance from high public investment to greater dependence on consumption and services. In Sub-Saharan Africa, the outlook remains challenging as some of the big economies are emerging from recession. Growth is projected to rise from 1.3 percent in 2016 to 2.7 percent in 2017, and 3.5 in 2018, amid rebound in commodities prices, restoration of business confidence and reduced political uncertainties in the sub-region. Nigeria is forecast to emerge from recession and grow from -1.6 percent in 2016 to 0.8 percent in 2017 and 1.9 percent in 2018.

## 2.2 Domestic Developments

Nigeria was in recession in 2016 with a negative growth rate of -1.58 percent, from a growth rate of 2.79 percent in 2015, as shown in Table 2.1. This development was attributed to some factors, which include the collapse in oil prices in the international oil market from an average price of over US\$51.99 per barrel in 2015 to less than US\$43.74 per barrel in 2016, banning of 41 items from official foreign exchange sources, continued slide in the Naira exchange rate and the high cost of production influenced by shortage of Premium Motor Spirit (PMS) and power outages. Other factors included oil production shock, slowdown in private sector credit growth, low capital budget releases and spending, decline in domestic demand and insurgency which suppressed economic activities. The slowed growth recorded in 2016 was driven by Non-Oil and the Oil sectors. In the non-oil sector, Manufacturing, Trade, Accommodation and Food Services, and Utilities sectors shrank during the review period. With the country's population growth rate of about 3.2 percent per annum, the GDP per capita contracted from US\$2,590.35 in 2015 to US\$1,826.99 in 2016. The consumer price inflation rose from a single digit of 9.6 percent in 2015 to a double digit of 18.6 percent in 2016. This was attributed to the high cost of transportation induced by the effect of exchange rate pass-through to domestic prices and structural challenges, imported inflation, and food shortages associated with security challenges in the North East.

**Table 2.1: Recent Macroeconomic Developments, 2012-2016**

Indicators	2012	2013	2014	2015	2016
Real GDP Growth Rate (%)	4.21	5.49	6.22	2.79	-1.58
Annual GDP Deflator (2010=100) (% Annual Change)	9.27	5.87	4.66	2.86	9.54
Headline Inflation Rate (%)	10.0	8.0	8.0	9.6	18.55
Actual Overall Fiscal Deficit (% of GDP)	2.4	1.4	0.94	1.64	2.37
End-Period Exchange Rate (N)	156.05	155.98	169.68	196.50	305
Current Account Position (US\$'Billions)*	17.52	19.21	0.91*	-15.44	2.72
Total Public Debt-to-GDP Ratio (%)	22.43	12.65**	12.65	13.02	16.27
External Reserve Stock (US\$'Billion)	43.83	42.85	34.24	28.28	26.99

Sources: NBS, CBN, OAGF, and DMO

Note: Total Public Debt-to-GDP ratio include States' Domestic Debt stock

\*Revised figures from CBN

\*\*Total Public Debt-to-GDP ratio post-rebasing

The actual revenue and expenditure of the Federal Government for fiscal year 2016 were ₦2,856.55 billion and ₦5,259.93 billion, respectively, compared to ₦3,209.57 billion and ₦4,767.37 billion in 2015. The overall fiscal deficit was ₦2,403.38 billion in 2016, while the

overall fiscal deficit-to-GDP ratio increased to 2.37 percent in 2016, from 1.64 percent in 2015. The revenue estimate of the 2016 Federal Government Budget was based on oil price benchmark of US\$38 per barrel.

In the external sector, provisional figures revealed that the sector improved slightly and recorded an overall balance of payments deficit of 0.2 percent of GDP, occasioned by lower import bills arising from the structural reforms in the foreign exchange market, rebound in prices in the international oil market, reduced financial out-flows and sustained increase in remittances. The external reserves fell by 6.5 percent from US\$28.28 billion in 2015 to US\$26.99 billion as at end-December, 2016, due largely to demand pressure and was adequate to finance 9.2 months of import. The current account position swung from a deficit of 3.2 percent of GDP in 2015 to a surplus of 0.7 percent of GDP in 2016, driven largely by improved trade balance arising from lower non-oil imports.

Owing to intense pressure from excessive demand and capital reversal in the foreign exchange market, the CBN discontinued the sale of foreign exchange to Bureau-De-Change (BDC) operators in January 2016, and resumed foreign currency deposits in commercial banks in order to maintain relative stability in the foreign exchange market, and conserve external reserves. However, owing to the inability to curb the demand pressure, the Bank adopted a more flexible exchange rate system on June 20, 2016 with the merger of the inter-bank and the autonomous segments into a single foreign exchange market – the interbank market. The features of the system include: greater flexibility in the determination of exchange rate of the naira through a 2-way quote system; introduction of tenured derivatives futures and forwards of 1 month, 2 months, 3 months, 6 months, 9 months, 12 months, 18 months and 24 months tenors; and the introduction of foreign exchange primary dealers. In July 2016, the Bank directed all authorised dealers that serve as agents to approve International Money Transfer Operators (IMTOs) to sell foreign currency accruing from inward money remittances to licensed BDCs. Following the development, the exchange rate depreciated at both the Interbank and Bureau De Change (BDC) segments of the foreign exchange market. The average exchange rate of the naira at the interbank segment depreciated against the US dollar by 22.9 percent to ₦253.29 per US dollar in 2016. It also depreciated by 40.2 percent to ₦372.91 per US dollar at the BDC, compared with ₦222.79 in 2015. Thus, the premium between the annual average interbank and BDC rates in 2016 closed at 47.1 percent, exceeding the internationally accepted benchmark of 5.0 percent. In the monetary sector, provisional data for 2016 showed that Broad Money Supply ( $M_2$ ) increased by 18.4 percent as at end-December, 2016, in contrast to the growth of 5.9 percent in the corresponding period



of 2015. The Monetary Policy Rate (MPR) was increased to 14.00 percent from 11.00 percent in the preceding year, reflecting the CBN's contractionary monetary policy stance aimed at sustaining the stability of the financial system. The weighted average prime and maximum lending rates rose by 0.13 and 1.71 percentage points to 17.09 percent and 28.55 percent, respectively. In the Interbank money market, the weighted average inter-bank call rate rose to 15.67 percent from 12.15 percent as at end December, 2015, while the Open-Buy-Back (OBB) rate declined to 10.39 percent, from 12.69 percent.

## CHAPTER THREE

### PUBLIC DEBT PORTFOLIO REVIEW

#### 3.1 Nigeria's Total Public Debt Outstanding

The Nigeria's total public debt outstanding as at December 31, 2016, was ₦17,360,009.57 million (US\$57,391.43 million), compared to ₦12,603,705.28 million (US\$65,428.53 million) in 2015, representing an increase of ₦4,756,304.30 million or 37.74 percent in Naira term, but a decrease of US\$8,037.00 million or 12.00 percent in the dollar terms. The incongruence in the total debt stock between the two currencies reflected the difference in exchange rates for the periods. The increase in public debt stock was due to additional issuances for funding of the appropriated 2016 budget deficit, at a larger fiscal deficit of 2.14 percent of GDP compared to 1.09 percent in 2015 and refinancing/redeeming matured securities, as well as the depreciation of the Naira against the US Dollar as a result of the liberalization of the exchange rate system. The external debt was ₦3,478,915.40 million (US\$11,406.28 million), or 20.04 percent, while domestic debt was ₦13,881,094.18 million (US\$45,985.25 million), or 79.96 percent. The domestic debt stock comprised securitised Federal Government of Nigeria debt of ₦11,058,204.30 million (US\$36,256.41 million) or 63.70 percent as at December 31, 2016, and domestic debt stock of ₦2,822,889.88 million (US\$9,728.84 million) or 16.26 percent for the 36 States and the FCT, as at September 30, 2016, as the collation and validation of the States' domestic data occur with some time lag.



**Table 3.1: Nigeria's Total Public Debt Outstanding, 2012-2016**

	2012	2013	2014	2015	2016
<b>FGN Debt Stock</b>					
<b>External Debt Stock*</b>					
US\$' Million	6,527.07	8,821.90	9,711.45	10,718.43	11,406.28
NGN' Million	1,016,721.69	1,373,569.83	1,631,523.60	2,111,530.71	3,478,915.40
% Share of Total	11.17	13.68	14.34	16.38	20.04
as % of GDP	2.50	1.73	1.81	2.13	3.23
<b>FGN's Domestic Debt Stock</b>					
US\$' Million	41,969.16	45,722.41	47,047.77	44,857.85	36,256.41
NGN' Million	6,537,536.05	7,118,979.86	7,904,025.47	8,836,995.86	11,058,204.30
% Share of Total	71.79	70.88	69.47	68.56	63.70
as % of GDP	16.10	8.97	8.79	8.93	10.28
<b>States' Domestic Debt Stock</b>					
US\$' Million	9,961.16	9,965.64	10,967.06	9,852.25	9,728.84**
NGN' Million	1,551,650.13	1,551,650.13	1,707,571.14	1,655,178.71	2,822,889.88**
% Share of Total	17.04	15.45	16.19	15.06	16.26
as % of GDP	3.82	1.95	2.05	1.96	2.76
<b>Nigeria's Total Public Debt Stock</b>					
US\$' Million	<b>58,457.39</b>	<b>64,509.95</b>	<b>67,726.28</b>	<b>65,428.53</b>	<b>57,391.53</b>
NGN' Million	9,105,907.87	10,044,198.82	11,243,120.22	12,603,705.28	17,360,009.57
as % of GDP	22.43	12.65	12.65	13.02	16.27

Source: DMO

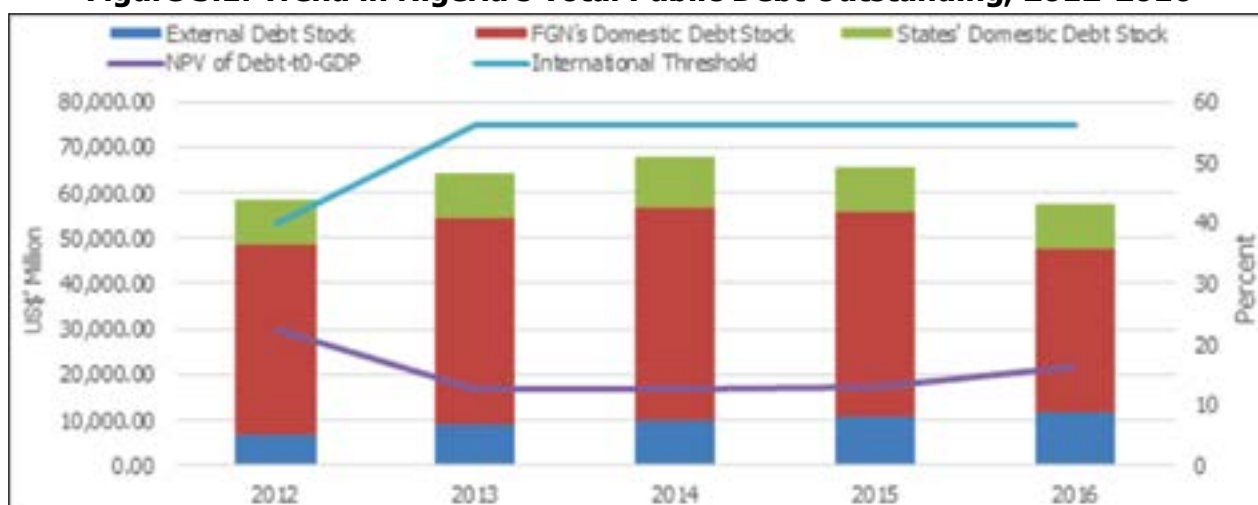
\*External Debt includes States' External Debt

\*\*Actual Domestic Debt Stock for 36 States & FCT as at end-September, 2016

Table 3.1 further shows that the ratio of Nigeria's Total Public Debt-to-GDP was 16.27 percent in 2016, compared to 13.02 percent in 2015. This ratio was still within the Country's specific limit of 19.39 percent in the medium-term, up to December 31, 2017, and far below the World Bank/IMF's threshold of 56.00 percent for countries in Nigeria's peer-group, as well as WAMZ convergence threshold of 70.00 percent. Figure 3.1 shows the trend in total public debt outstanding for a five-year period (2012-2016).



**Figure 3.1: Trend in Nigeria's Total Public Debt Outstanding, 2012-2016**



Source: DMO

### 3.2 FGN's Total Public Debt Service

The FGN's Total Public Debt Service reduced from US\$5,499.24 million in 2015 to US\$4,381.82 million as at December 31, 2016 (Table 3.2). The reduction by US\$1,117.42 million or 20.32 percent was as a result of the decline in the FGN domestic debt stock from US\$44,857.85 million in 2015 to US\$36,256.41 million in 2016, which led to the significant decrease in domestic debt service by US\$1,139.45 million or 22.05 percent. However, debt service payments on external debt marginally increased to US\$353.09 million in 2016, from US\$331.06 million in 2015, due to the additional disbursements on existing commitments during the year.

**Table 3.2: FGN's Total Public Debt Service, 2012-2016 (US\$' Million)**

	2012	2013	2014	2015	2016
External Debt Service	293.00	297.32	346.72	331.06	353.09
% Share of Total	(5.96)	5.39	(6.30)	(6.02)	(8.06)
Domestic Debt Service	4,625.72	5,223.35	5,153.63	5,168.18	4,028.73
% Share of Total	(94.04)	94.61	(93.70)	(93.98)	(91.94)
<b>Total</b>	<b>4,918.72</b>	<b>5,520.67</b>	<b>5,500.35</b>	<b>5,499.24</b>	<b>4,381.82</b>

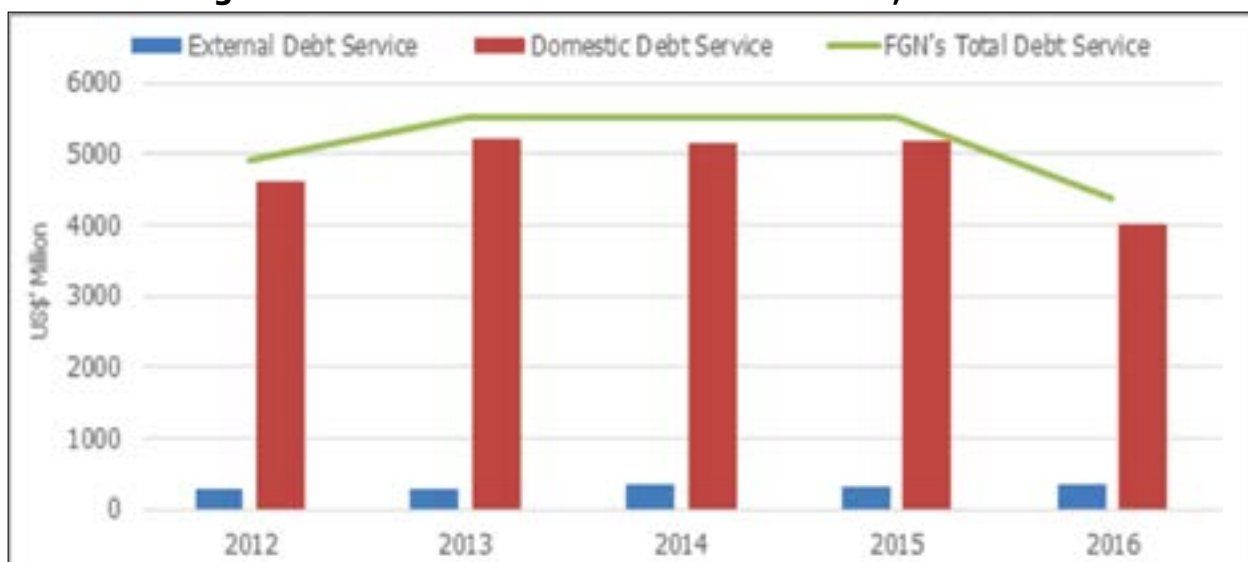
Source: DMO

Official CBN Exchange Rate of N305.00/US\$1 as at 31/12/2016, was used for 2016

Figure 3.2 shows that the FGN's total debt service payments witnessed an upward trend from 2012 to 2013. It stabilized from 2014 to 2015, before declining in 2016. Although external debt service increased in 2016 to US\$353.09 million, from US\$331.06 million in 2015, domestic debt service declined significantly from US\$5,168.18 million in 2015 to US\$4,028.73 million in

2016. The high proportion of domestic debt service relative to external debt service was due to increased quantum of domestic borrowing used to finance budget deficit over the years.

**Figure 3.2: Trends in FGN's Total Debt Service, 2012-2016**



Source: DMO

### 3.3 Nigeria's External Debt Stock

Nigeria's external debt stock outstanding was US\$11,406.28 million as at December 31, 2016, compared to US\$10,718.43 million as at end of the corresponding period in 2015 (Table 3.3), representing an increase of US\$687.85 million or 6.42 percent in the period under review. The increase was attributable to additional disbursements of multilateral and bilateral loans, as well as net adverse cross exchange rate movements among the different currencies in the external loan portfolio. The external debt stock maintained an upward trajectory, as Government continued to fund its external borrowing requirements from the concessional sources over the years.

**Table 3.3: External Debt Outstanding by Source, 2012-2016 (US\$' Million)**

SOURCE	2012	2013	2014	2015	2016
<b>A. Official:</b>					
1. Bilateral	703.03	1,025.70	1,412.07	1,658.00	1,918.06
2. Multilateral	5,267.42	6,275.20	6,799.36	7,560.43	7,988.22
<b>Sub-Total</b>	<b>5,970.45</b>	<b>7,300.90</b>	<b>8,211.43</b>	<b>9,218.43</b>	<b>9,906.28</b>
<b>B. Private:</b>					
1. Eurobonds	500.00	1,500.00	1,500.00	1,500.00	1,500.00
2. Other Commercial	56.63	21	0	0	0
<b>Sub-Total</b>	<b>556.63</b>	<b>1,521.00</b>	<b>1,500.00</b>	<b>1,500.00</b>	<b>1,500.00</b>
<b>Grand Total</b>	<b>6,527.07</b>	<b>8,821.90</b>	<b>9,711.45</b>	<b>10,718.43</b>	<b>11,406.28</b>
<b>Creditor Category as % of Total</b>					
<b>A. Official:</b>					
1. Bilateral	10.77	11.63	14.54	15.47	16.82
2. Multilateral	80.70	71.13	70.01	70.54	70.03
<b>Sub-Total</b>	<b>91.47</b>	<b>82.76</b>	<b>84.55</b>	<b>86.01</b>	<b>86.85</b>
<b>B. Commercial:</b>					
1. Eurobonds	7.66	17	15.45	13.99	13.15
2. Other Commercials	0.87	0.24	0.00	0.00	0.00
<b>Sub-Total</b>	<b>8.53</b>	<b>17.24</b>	<b>15.45</b>	<b>13.99</b>	<b>13.15</b>
<b>Grand Total</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>

Source: DMO

Based on CBN Official Exchange Rate of \$1 to N305 as at December 31, 2016

### 3.4 Nigeria's External Debt Service

The external debt service was US\$353.09 million as at December 31, 2016, compared to US\$331.06 million as at December 31, 2015, representing an increase of US\$22.03 million or 6.65 percent. Table 3.4 shows that a significant portion of external debt service payments were to the Multilateral creditors and holders of Eurobonds accounting for US\$165.33 million or 46.82 percent and US\$91.26 million or 25.85 percent of the total external debt service, respectively. The sum of US\$63.38 million or 17.95 percent was paid to the Bilateral creditors, while the remaining US\$33.12 million or 9.38 percent was payment made in respect of Oil Warrants and Agency Fees<sup>2</sup>. Table 3.4 shows the detailed breakdown of debt service by creditor category.

<sup>2</sup> These are payments made in respect of the outstanding Oil Warrants associated with the Par Bonds of the London Club, which was exited in 2007, including the Legal Advisory Services for the transactions. The Oil Warrants originally consisted of 1,758,796 million units, worth US\$400 million in value, with an annual service obligation of US\$52.70 million. In 2007, the Federal Government repurchased 396,154 (20.98%) units of the Oil Warrants, leaving a balance of 1,390, 642 units. The annual debt service obligations in respect of the remaining 1,390, 642 units of Oil Warrants amounts to US\$41.72 million. The Principal amount of the Bonds will be repaid by a single payment by November, 2020.

**Table 3.4: FGN's External Debt Service, 2012-2016 (US\$' Million)**

Source	2012	2013	2014	2015	2016
<b>A. Official</b>					
1. Bilateral	45.28	41.08	48.93	59.42	63.38
2. Multilateral	126.92	142.89	152.74	138.65	165.33
<b>B. Commercial</b>					
1. Eurobonds	33.75	33.75	91.26	91.26	91.26
2. China Loans (Alcatel, ZTE, Omotosho)	45.32	37.88	12.06	0	0
<b>C. Others</b>					
1. Oil Warrant	41.72	41.72	41.72	41.72	20.86
2. Agency Fees	0.01	0.01	0.01	0.01	12.26
<b>Grand Total</b>	<b>293.00</b>	<b>297.33</b>	<b>346.72</b>	<b>331.06</b>	<b>353.09</b>

Source: DMO

<sup>1</sup>Outstanding Oil Warrants, which were associated with the London Club debt were exited in 2007.

### 3.5 Federal Government of Nigeria's Domestic Debt Stock

The securitized Federal Government's domestic debt stock outstanding was ₦11,058.20 billion as at December 31, 2016, compare to ₦8,837.00 billion as at December 31, 2015, representing an increase of ₦2,221.21 billion or 25.14 percent. The growth in stock was as a result of more issuances of FGN bonds and Nigerian Treasury Bills used to finance the 2016 appropriated budget deficit and to refinance matured government securities. Table 3.5 shows that as at December 31, 2016, the FGN's domestic debt stock comprised mainly: FGN bonds (68.41 percent), Nigerian Treasury Bills (NTBs) (29.64 percent) and Treasury Bonds (1.95 percent).

**Table 3.5 FGN's Domestic Debt Outstanding by Instruments, 2015 & 2016  
(₦' Billion)**

Instrument	2015	2016
<b>FGN Bonds</b>	5,808.14	7,564.94
(% share of Total)	(65.73)	(68.41)
<b>Nigerian Treasury Bills</b>	2,772.87	3,277.28
(% share of total)	(31.38)	(29.64)
<b>Treasury Bonds</b>	255.99	215.99
(% share of total)	(2.90)	(1.95)
<b>Total</b>	<b>8,837.00</b>	<b>11,058.21</b>

Source: DMO

### 3.6 FGN's Domestic Debt Service

The FGN's Domestic Debt Service for the year 2016, amounted to ₦1,228.76 billion compared to ₦1,018.13 billion in 2015, representing an increase of ₦210.63 billion or 20.69 percent

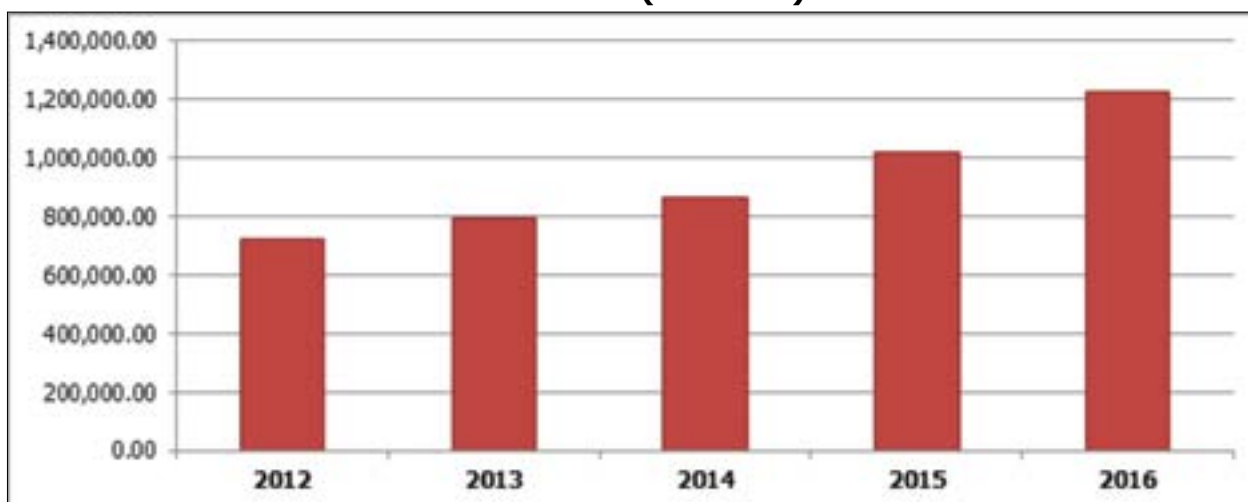
(Table 3.6). The debt service comprised principal repayment of ₦25.00 billion and interest payment of ₦1,203.76 billion. By instrument-type, FGN Bonds' debt service accounted for 68.41 percent of the total debt service payment, while payments in respect of the Nigerian Treasury Bills (NTBs), and Treasury Bonds were 27.31 and 4.39 percent, respectively. The trend analysis shows a steady rise in FGN's domestic debt service payments from 2012 to 2016, arising from the growth of domestic debt stock with higher interest rates (Figure 3.3).

**Table 3.6: FGN's Domestic Debt Service Payments, 2012 - 2016 (₦' Million)**

Instruments	2012	2013	2014	2015	2016
NTBs	310,792.71	262,767.69	300,267.31	324,062.86	335,583.04
FGN Bonds	354,078.61	482,415.75	511,778.24	635,432.78	839,179.67
Treasury Bonds	55,680.63	48,916.56	53,763.63	58,635.13	53,998.50
Development Stock	0.00	0.00	0.00	0.00	0.00
<b>Total Debt Service</b>	<b>720,549.95</b>	<b>794,104.93</b>	<b>865,809.18</b>	<b>1,018,130.76</b>	<b>1,228,761.21</b>

Source: DMO

**Figure 3.3: Trends in FGN's Domestic Debt Service Payments, 2012-2016 (₦' Billion)**



Source: DMO

### 3.7 States' & FCT's Domestic Debt by Maturity Structure

The Total Domestic Debt of the thirty-six (36) States and the FCT in 2016 was ₦2,822.89 billion compared to ₦1,655.18 billion in 2015, indicating an increase of ₦1,167.71 billion or 70.55 percent. Further analysis of the States' and FCT's domestic debt by maturity shows that the share of short-term debt (36 percent) and the share of the medium/long-term debt (64 percent) were maintained in 2016, when compared to the composition of 45:55 in 2015.



**Table 3.7: States' & FCT's Domestic Debt by Maturity, 2012-2016 (N' Million)**

Description	2012	2013	2014	2015	2016
Short-Term Debt (ST) <sup>1</sup>	682,726.06	522,740.29	893,796.50	893,796.50	1,016,240.36
Medium/Long-Term Debt (MLT) <sup>2</sup>	868,924.07	1,014,731.16	761,382.20	761,382.20	1,806,649.52
<b>Total</b>	<b>1,551,650.13</b>	<b>1,537,471.45</b>	<b>1,655,178.71</b>	<b>1,655,178.71</b>	<b>2,822,889.88</b>
ST as a % of Total	44	44	54	54	36
MLT as a % of Total	56	56	46	46	54

Source: DMO

Notes: <sup>1</sup> Debts with up to 1 year remaining maturity

<sup>2</sup> Debts with more than 1 year remaining maturity

## CHAPTER FOUR

### RISK ANALYSIS OF FGN'S TOTAL PUBLIC DEBT

#### 4.1 Introduction

This chapter evaluates the costs and risks performance of the FGN's Total Public Debt Portfolio as at December 31, 2016. These risks are Interest Rate, Refinancing, Exchange Rate, Credit and Contingent Liabilities risks.

#### 4.2 Risk Analysis of FGN's Total Public Debt Portfolio

Table 4.1 summarizes the cost and risk indicators of the FGN's total public debt portfolio as at December 31, 2016.

**Table 4.1: Cost and Risk Indicators of FGN's Total Public Debt Portfolio as at December 31, 2016**

Cost and Risk Indicators		External Debt	Domestic Debt	Total Debt
PV of Debt (including States Domestic Debts) as % of GDP		3.26	13.01	16.27
Cost of Debt	Weighted Av. Interest Rate (%)	3.10	11.11	9.19
Refinancing Risk	ATM (years)	13.57	7.53	9.54
	Debt Maturing in 1yr (% of Total)	0.27	35.35	23.86
Interest Rate Risk	ATR (years)	13.43	7.53	8.93
	Debt Re-fixing in 1yr (% of Total)	16.61	35.35	29.12
	Fixed Rate Debt (% of Total)	84.19	100	94.74
FX Risk	FX Debt (% of Total Debt)	-	-	19.79

Source: DMO

#### 4.3 Average Cost of FGN's Portfolio

The higher cost of domestic debt at weighted average cost of 11.11 percent compared to the weighted average cost of external debt at 3.10 percent, reflected tight Monetary Policy stance of the CBN. The Monetary Policy Rate (MPR), was increased from 11.00 percent in 2015 to 14.00 percent in July, 2016, and retained up to the end-2016. (Table 4.1). The cost of external debt was comparatively lower due to the high portion of concessional external debt in the public debt portfolio with average interest rates of about 1.25 percent per annum and average tenor of about 40 years, which helped to moderate the overall cost of debt.

#### 4.4 Interest Rate Risk

The fixed interest rate debt portion of the total debt portfolio was high at 94.74 percent with ATR of 8.93 years and suggests that the portfolio is not prone to interest rate risk (Table 4.1). However, domestic debt portfolio is significantly exposed to interest rate risk with a share of

debt maturing in one year at 35.35 percent. This was attributed to the high proportion of short-term debt instruments (NTBs) in the portfolio, which matures in one year and subject to interest rate re-fixing.

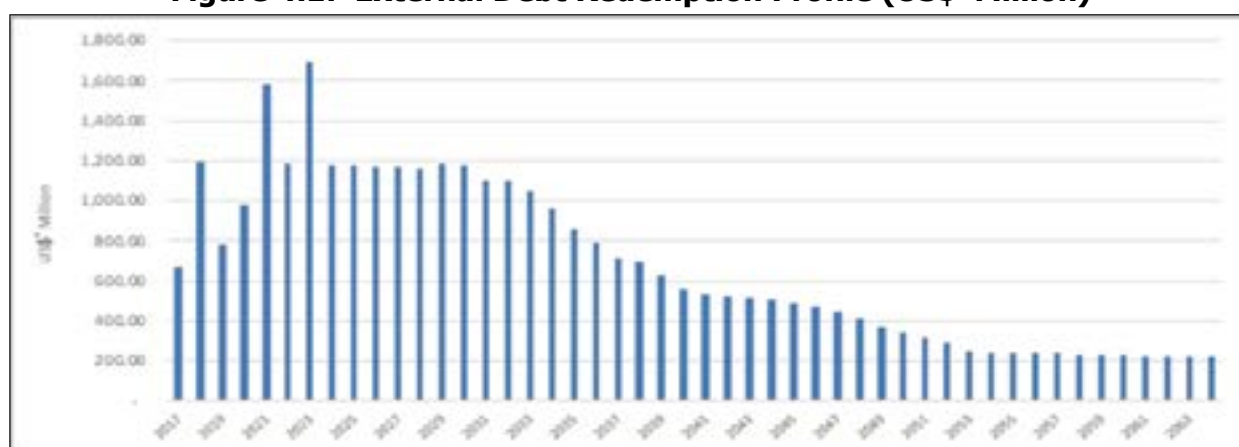
#### 4.5 Refinancing Risk

With the strategic benchmark of the minimum of 10 years, refinancing risk remained low for external debt with Average Time-to-Maturity (ATM) at 13.57 years, while it was high for domestic debt with ATM of 5.53 years and debt maturing in one year at 35.35 percent, which was above the benchmark of 20.00 percent (Table 4.1). This indicates that the domestic debt portfolio was exposed to refinancing risk, and highlights the need to rebalance the debt portfolio by reducing the quantum of short-term debts in line with the country's Debt Management Strategy, 2016-2019.

#### 4.6 Redemption Profile

Figure 4.1 is the redemption profile of the external debt of the country beyond 2016, which shows some spikes in 2018, 2021 and 2023, attributable to the redemption of the three maturing Eurobonds, namely: the debut 6.75% JAN 2021 US\$500 million (10-year Eurobond issued in 2011) and the US\$1 billion dual-tranche Eurobonds: 5.125% JUL 2018 US\$500 million (5-year) and 6.375% JUL 2023 US\$500 million (10-year) issued in 2013. Similarly, the redemption profile for domestic debt (Figure 4.2) reflects a significant level of refinancing risk in 2017, attributed to the high proportion of NTBs in the domestic debt portfolio that would be required to be refinanced in 2017.

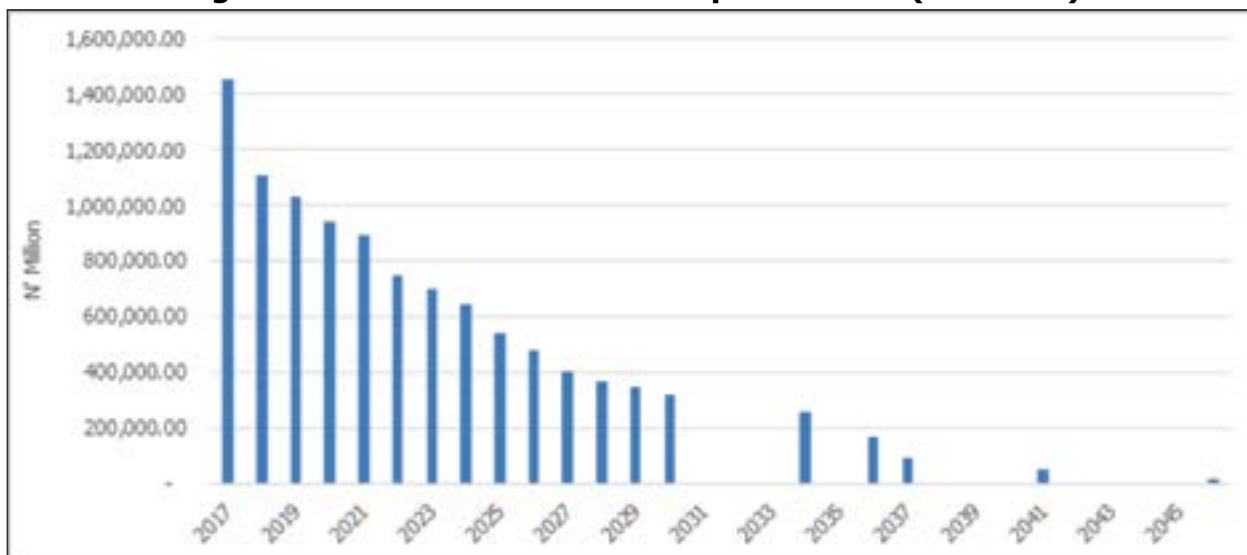
**Figure 4.1: External Debt Redemption Profile (US\$' Million)**



Source: DMO



**Figure 4.2: Domestic Debt Redemption Profile (₦' Million)**



Source: DMO

## 4.7 Exchange Rate Risk

The FGN's total debt portfolio as at December 31, 2016, had a minimal exposure to foreign exchange risk, due to the relatively high proportion of domestic currency debt in the portfolio at about 80.00 percent.

**Figure 4.3: Currency Composition of External Debt as at December 31, 2016**

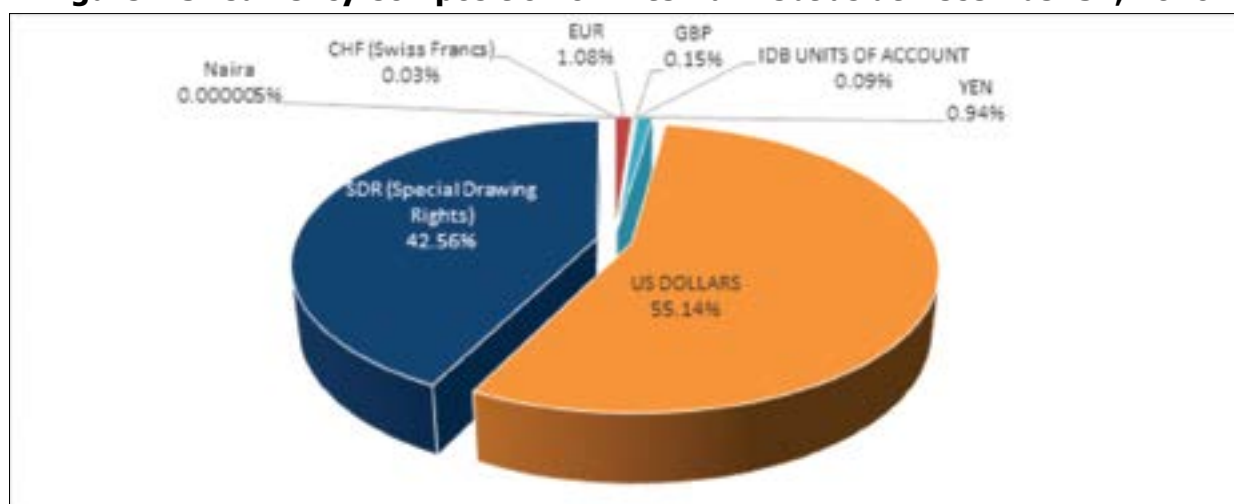


Figure 4.3 further shows that external debt portfolio by currency composition was denominated in various currencies, namely: Swiss Franc (CHF), Euro (EUR), British Pound Sterling (GBP),

Islamic Dinar (ID), Japanese Yen (JPY), United States Dollar (US\$), Special Drawing Rights<sup>3</sup> (SDRs) and Naira<sup>4</sup> (N), which was on account of debt sourced from the concessional window of the ADB. The respective shares of these currencies at 0.05, 4.97, 0.23, 0.15, 0.62, 33.94, 60.03 and 0.00003 percent, show that there was a minimal exchange rate risk arising from currency mismatch, given that the external debt service payment obligations are effected mainly in the convertible currencies in the basket. This has helped to hedge against foreign exchange risk associated with unfavourable trend in currency exchange rate movements. The funding of external debt service through the External Creditors' Funding Account (ECFA), which is denominated in US Dollars, was a further cushion against exchange rate risk, as the currency composition of external debt was dominated by the US dollar.

**Table 4.2: Currency Composition of External Reserves Assets as at December 31, 2016**

Currency	US\$ Equivalent	% of Total
US Dollars	22,770,002,838.57	84.36
GB Pounds	219,356,275.01	0.81
Euro	128,983,463.29	0.48
Swiss Franc	1,385,161.23	0.01
Japanese Yen	8,148,016.37	0.03
Chinese Yuan (Renminbi)	1,852,214,206.21	6.86
Special Drawing Right (SDR) Allocation	2,009,621,186.02	7.45
Other Currencies	867,064.73	0.00
<b>Total</b>	<b>26,990,578,211.43</b>	<b>100.00</b>

Source: CBN

<sup>3</sup> Special Drawing Rights (SDRs) is a virtual currency, whose value is currently based on a basket of currencies (Yen, Euro, Pound, and Dollar). It was created by IMF as an international reserve asset to supplement the existing official reserves of member countries. The International Development Association (IDA) of the World Bank extends loans to countries on amount equivalent to SDRs. The SDR remains the single largest share of the Nigeria's external debt portfolio accounting for 60.03 percent or US\$6,840.54 million as at December 31, 2016.

<sup>4</sup> The Naira component of the external debt portfolio is an ADF loan contracted in respect of the multi-currency project (Bamenda-Manfe-Abakaliki-Enugu Road Corridor), which is denominated in Fund Unit of Account and disbursed in various currencies, which include US dollar, Euro, GBP, and Naira. The Naira portion was disbursed in June, 2015.

**Figure 4.4: Currency Composition of External Reserves as at December 31, 2016**

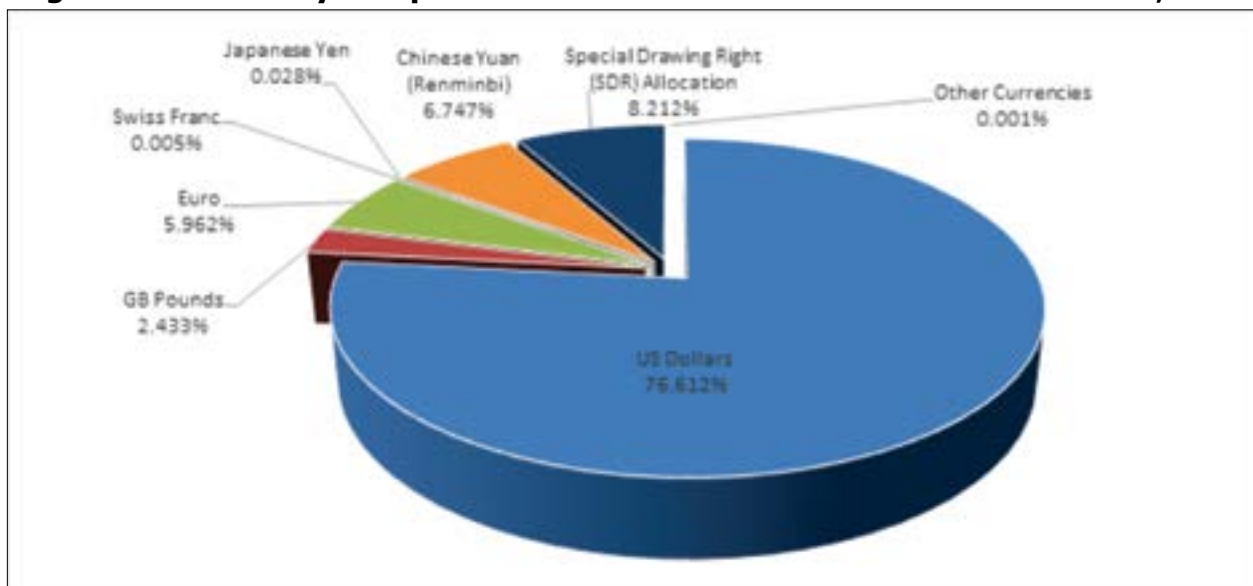


Table 4.2 and Figure 4.4 show the composition of the country's external reserves position by currency as at December 31, 2016, with a total of US\$26.99 billion. The proportion of currency components of the foreign reserve assets were US\$ (84.36 percent), GBP (0.81 percent), Euro (0.48 percent), CHF (0.01 percent), JPY (0.03 percent), Chinese Yuan (6.86 percent), SDR (7.45 percent) and other currencies (0.0032 percent). Comparing the currency composition of external debt portfolio and currency composition of the country's external reserves, there was no currency mismatch to suggest potential exchange rate risk to the external debt portfolio (Table 4.3). In addition, the composition of external reserves which was dominated by US Dollar and SDR, which are the major currencies of external debt portfolio highlights further hedge against exchange rate risk.

**Table 4.3: Composition of External Debt & Reserve Assets as at December 31, 2016 (in percent)**

Currencies	US\$	GBP	EURO	CHF	IDB	JPY	Yuan	SDR	Naira	Others
External Debt: Currency Composition	33.94	0.23	4.97	0.05	0.15	0.62	-	60.03	0.00003	-
External Reserve: Currency Composition	84.36	0.81	0.48	0.0051	-	0.03	6.86	7.45	-	0.0032

Source: DMO



#### **4.8 Credit Risk (FGN's On-lent Loans to MDAs)**

The eleven (11) outstanding on-lent loans by the FGN to various MDAs amounted to N178.08 billion as at December 31, 2016, same amount as at end-2015. The loans were extended by the FGN to the MDAs to fund the development of projects in the key sectors of the economy, which include, Road and Railway, Agriculture, Transport and Education. Each of the On-lent loans was backed by Memorandum of Understanding (MOU) executed between the DMO and the MDAs, to ensure that the loans are repaid as and when due.

#### **4.9 FGN's Contingent Liabilities**

Table 4.4 shows that contingent liabilities decreased by ₦211.01 billion or 12.74 percent, from ₦1,656.47 billion in 2015 to ₦1,445.46 billion in 2016. The decrease was due to the reduction in the value of the liabilities of the Federal Mortgage Bank of Nigeria, Pension Arrears for MDAs, Local Contractors debts, and the restructuring of the FGN's Guarantee in favour of Lekki Port LFTZ Enterprises, which is yet to be utilized. As a percentage of the GDP, the outstanding contingent liability of the FGN was 1.42 percent of GDP in 2016, compared to 1.72 percent in 2015.



**Table 4.4: FGN's Contingent Liabilities, 2012-2016 (N' Billion)**

S/N	Liability Type	2012	2013	2014	2015	2016
1.	AMCON Guarantee	1,742.00	1,742.00	-	-	-
2.	Local Contractors Debts	233.942	233.942	233.942	233.942	159.287
3.	Federal Mortgage Bank of Nigeria	32.00	32.00	32.00	6.91	5.24
4.	Guarantee on Agriculture	174.707	-	-	-	-
5.	Nigerian Export-Import (NEXIM) Bank	-	-	39.40	39.40	61.00
6.	FCDA – Katampe Infrastructure Project	-	-	-	7.441.00	7.441.00
7.	Nigeria Mortgage Refinance Company Plc	-	-	-	8.00	8.00
8.	Lekki Port LFTZ Enterprise – Lekki Deep Sea Port	-	-	157.60	157.60	-
9.	World Bank Partial-Risk Guarantee in support of Azura-Edo IPP	-	-	-	46.689	72.29
10.	Pension Arrears for MDAs	1,322.427	1,271.062	1,231.035	1,156.49	1,132.21
	<b>Total</b>	<b>3,585.08</b>	<b>3,279.00</b>	<b>1,693.977</b>	<b>1,656.467</b>	<b>1,445.47</b>

Notes:

1. The FGN Guarantee to AMCON in respect of the ₦1.742 trillion 3-year Zero-coupon AMCON Tradable Bond expired on December 31, 2013, following the redemption of AMCON Bonds. The Guarantee did not crystallize.
2. The FGN Guarantee was given to cover the ₦233,942,080,700.00 Face Value of the 5-year 2016/2017 Split Coupon Bonds issued by the Special Purpose Vehicle (SPV) set up for the resolution of the Local Contractors Debts. The Sinking Fund Account is being funded from the annual budgets of the Federal Government of Nigeria (FGN).
3. FGN Guarantee of FMBN Bond issued to enable the Bank raise funding from the capital market to refinance the sale of Federal Government non-essential houses under the monetization programme of the Government.
4. Unconditional guarantee to the financiers (Banks) to cover 70% of the loan principal payment under the Programme for financing the supply of seeds and fertilizers to farmers for the 2012 farming season. The Client was the Federal Ministry of Agriculture and Rural Development. The Guarantee expired in 2012 and did not crystallize
5. FGN Guarantee to NEXIM for the US\$200 million Master Line of Credit from African Development Bank (AfDB). Exchange rate: N305/\$. The AfDB multi tranche line of credit is to finance part of the cost of the Export Oriented Small and Medium Enterprises financing programme of the Nigerian Export Import (NEXIM) Bank. The tenor is for 10 years. NEXIM Bank has opened Debt Service Reserve Account (DSRA) and maintains collection accounts for beneficiary clients for their operations from which the DSRA would be funded prior to maturing periods of interest and principal repayments. There is a lien on the DSRA which state that NEXIM cannot withdraw from the account without the consent of the DMO.
6. The Guarantee was issued, on behalf of the Federal Capital Development Authority (FCDA), in favour of FBN Capital Limited and FBN Trustees Limited, in respect of a bank facility granted to Deanshanger Projects Limited for the provision of integrated civil infrastructure to Katampe District, Abuja. The current outstanding amount confirmed by FCDA is N7,440,504,380.68, excluding accrued interest.
7. The Guarantee is to enable NMRC raise long-term funds from the capital market by issuing notes for the purpose of refinancing or purchasing mortgages created by Eligible Mortgage Lenders. ₦8 billion has been utilized out of the Guarantee. Total Guarantee available is N440 billion, with an initial limit of ₦100 billion, to be utilized in two tranches of N50 billion each, subject to further approvals based on a confirmation of Programme's efficacy.
8. FGN Guarantee in favour of Lekki Port LFTZ Enterprise (Concessionaire) to cover the sum of US\$800 million (N244,000,000,000.00 converted at N305/%) of the investment by the Concessionaire for the purpose of funding the construction of a Deep Sea Port at Lekki Lagos, Nigeria, on a Build, Own, Operate and Transfer basis, for a period of forty-five years, for and on behalf of the Nigerian Ports Authority. The Guarantee is being restructured and has not been finalized and utilized.
9. World Bank Partial Risk Guarantees in the sum of US\$237 million (₦72,285,000,000.00 converted at ₦305/%), comprising Debt Mobilization Guarantee of US\$117 million and a Liquidity Guarantee of US\$120 million, in support of the 450 megawatts Azura-Edo Independent Power Project (IPP). The Federal Government of Nigeria (FGN) entered into Indemnity Agreement with the International Bank for Reconstruction and Development (IBRD) - World Bank, in 2015, to unconditionally and irrevocably reimburse to the World Bank amounts paid by the Bank directly or indirectly in relation to or arising from the IBRD Guarantee and to undertake such other obligations to the Bank as are set forth in the Indemnity Agreement.
10. Data provided by PENCOM: Outstanding Retirement Benefits Liability of the FGN for certain categories of its employees. The last employee would be retiring in 2039.



## CHAPTER FIVE

### UNDERLYING ASSUMPTIONS OF THE 2017 DSA

#### 5.1 Baseline Scenario Assumptions

The Baseline Scenario is anchored on the moderate economic recovery from 2016 recession on the heels of a challenging macroeconomic environment; the 2017 Federal Government annual Budget; and, the provisional Medium-Term Expenditure Framework (MTEF), 2018-2020 (Box 5.1).

#### Box 5.1: Baseline Scenario Assumptions

**Real and Nominal GDP Growth Rates:** The real and nominal GDP growth rates are projected to grow at 0.8 and 6.37 percent for 2017, respectively. The growth in the real GDP to 0.8 percent in 2017, up from -1.58 percent in 2016, is anchored on macroeconomic stability, investment in social infrastructure and job creation, diversification of the economy, food security through agriculture, development of physical infrastructure especially in power and fighting corruption and insecurity. Crude oil prices and production level are expected to continue to recover, leading to increase in revenue to the Government. In 2018, these conditions are expected to progress, with real and nominal GDP growth rates projected at 2.0 and 1.89 percent, respectively. The real and nominal GDP are expected to grow on average by 3.92 and 4.42 percent during 2017-2037, respectively.

**Inflation Rate:** Headline inflation on year-on-year basis is assumed at 16.00 percent in 2017 and expected to decline slightly to 15.00 percent in 2018. The decline in inflation rate in 2017 and 2018 is based on the high expectations for productive bumper crop harvest by farmers as more Nigerians have embraced farming, N-Power-Agro, as well as the coming on stream of Dangote Refinery in 2018. With the envisaged improvement in food supply, availability of petroleum products and stability in exchange rate, inflation for 2017-2037, is expected to average 11.36 percent per annum.

**Crude Oil Production:** The crude oil production level of 1.90 million barrels per day (mbpd) assumed in 2017 is expected to increase to 2.0, 2.20 and 2.30 million barrels per day (mbpd), respectively in 2018, 2019 and 2020. Production is maintained at 2.40 in 2021 through 2037 and this is based on concerted Government efforts and engagement Niger-Delta stakeholders to address pipeline vandalism, renewed militancy in the Niger Delta, leakages and wastages, crude oil theft and illegal bunkering. It is also expected that the recent deregulation of the downstream oil sector will bring about new investment and increase crude production and productivity.

**Crude Oil Benchmark Price:** The 2017 oil price benchmark of US\$43 per barrel (pb) is expected to increase to US\$44(pb) in 2018, and up to US\$45(pb) in 2019 through 2037. The projected increase in



global oil prices is predicated on the likely economic recovery, especially in advanced economies and emerging market and developing economies such as China and USA, respectively.

**Export:** Export is expected to grow during the projected period driven mainly by expected increase in crude oil price and production as a result of the relative improvement in the global economy, which is expected to boost demand; and the calmness in the Niger Delta region, respectively. In addition, the recent passage of the some components of the Petroleum Industry Bill (PIB), by the senate is expected to promote transparency and enhance investment in the sector. Government's sustained effort to diversify the economy through policy measures in the agricultural, industrial and solid minerals sectors is expected to impact positively and drive non-oil export growth. Also, government effort towards achieving an improved domestic oil refining capacity and the relative stability in the foreign exchange market, arising from the adoption of a more market-determined exchange rate regime, are expected to enhance the competitiveness of non-oil export and increase its contribution to total trade.

**Current Account Position:** The improvement in the global economy; increase in crude oil prices at the international market occasioned by production cut by OPEC; gradual recovery of the domestic economy arising largely, from the demand management policies and the implementation of the economic recovery and growth plan; enhanced export competitiveness, and the sustained reforms in the foreign exchange market are expected to impact positively on the current account. The current account balance is therefore, expected to remain in surplus in the short-to-medium horizon. In the long-term, however, the current account is expected to revert to deficit, mainly as a result of growth in the importation of capital goods for economic development.

**Foreign Direct Investments:** Sustained political stability, improved macroeconomic conditions, infrastructural development drive, economic reforms particularly, in the oil and transportation sectors, the adoption of a more flexible exchange rate regime and the relative stability in the foreign exchange market are the major factors that would drive FDI inflows in the short to medium-term. In addition, foreign investors' continued quest for cheaper labour and lower cost of production in emerging economies, as well as ready demand in frontier economies is expected to impact positively and increase FDI to Nigeria in the short to medium-term. The growth in the FDI will, however, be dampened by the continued recovery in the advanced economies in the long-term horizon.

**Remittances:** The improved economic performance resulting from the sustained and effective implementation of government reforms in the public sector, political stability in the country and the flexible foreign exchange rate regime would serve as incentives for Nigerians in diaspora to remit more funds into the economy in both the short and long-term. Furthermore, the recovery in the global economy is expected to enhance the inflow of workers remittances.





**External Reserves:** The sustained foreign exchange reforms, which has curbed spurious foreign exchange demand, fiscal discipline and improvement in both oil and non-oil export is expected drive steady accretion to external reserves throughout the period. The external reserve is expected to remain comfortably above the international benchmark of 3 months of import cover from the short to the long-term.

**Fiscal Deficit:** The fiscal deficit is projected at ₦2.356 trillion or 2.18 percent of GDP for 2017. This is expected to decline to ₦2.310 trillion or 1.99 percent in the medium-term (2018-2020). Over the longer term, 2021-2037, the fiscal deficit is still projected to decline further, averaging ₦1.752 trillion or 0.97 percent of GDP. The projected level of deficit is based on a gradual increase in oil production due mainly to slow expansion of domestic oil extraction, as well as post 2030 base oil production, which is assumed to decline as depletion of aggregate global oil production rates in oil fields are expected due to post Peak Oil production. In addition, improvements in oil revenues, which increase availability of foreign exchange for Naira stabilization, increased investors' confidence, and improvement in business environment are expected to increase economic growth, and hence, projected growth in non-oil revenues. Also, cost containment measures of Government, including through full implementation of the Integrated Payroll and Personnel Information System (IPPIS), as well as improved management of public expenditures.

**Nominal Exchange Rate:** The Nominal Exchange Rate is expected to remain stable both in the medium and long-term, as a result of the robust foreign exchange policy, which has resulted in a more market-determined exchange rate, deepened the foreign exchange market to accommodate all foreign exchange obligations and stemmed speculative demands. The introduction of special foreign exchange windows particularly the Investors and Exporters window (NAFEX) is expected to bring in more investments into the economy.

**New Financing:** New financing will entail the maximisation of available funding envelopes from concessional and semi-concessional external sources, taking into account what may be readily available within a given period before exploring other external funding sources, for the financing of key infrastructure projects, in line with the recommendations of Nigeria's Debt Management Strategy, 2016-2019. The new financing will rely on long-term debt instruments for domestic borrowing and less expensive long-term external financing. The funding strategy supports the movement towards achieving the country's strategic objective of 60:40 ratio for domestic and external debt portfolio, respectively, as well as, attaining the 75:25 ratio for long to short-term debt instruments in the domestic debt portfolio. This would minimise refinancing risk, with its associated debt servicing costs. With reclassification of Nigeria as a blend country, there would be a gradual move away from concessional financing and to non-concessional multilateral and commercial sources. The private sector is expected to play a major role in the domestic debt market by accessing more long-term funds for investments in the real sector, as the FGN gradually reduces its domestic debt issuances, to create more borrowing space for corporates.

## 5.2 Optimistic Scenario Assumptions

The Optimistic Scenario is hinged on the full implementation of the Economic Recovery and Growth Plan (ERGP), which sets out to restore macroeconomic stability, pull the economy out of recession and to re-launch it on the path of sustained economic growth, while stabilizing the monetary, external and fiscal environments and reduce the rate of unemployment.

### Box 5.2: Optimistic Scenario Assumptions

**Real GDP Growth Rate:** The real and nominal GDP growth rates are respectively assumed at 1.5 and 6.37 percent for 2017, with the vigorous diversification efforts of Government, on-going strategies to improve ease of doing business, massive investment in infrastructure, and leveraging power of the private sector through implementation of a number of public private partnership arrangements and capital budget releases, as well as improve access to loans to the real sector and SMEs through recapitalisation of the BOI, BOA and Development Bank of Nigeria. In 2018, the growth rate of 3.5 and 4.75 percent are assumed for real and nominal GDP in the oil and non oil sectors of the economy, respectively, because of the New JV arrangements, increased local refining coming into stream of Dangote Refinery in 2018, improved non-oil tax through automation, as well as efficient forex Management and Government effort in addressing insecurity in the North-East and the Niger-Delta. For the period 2017-2037, the real GDP growth is projected at 6.95 percent on average, while the average growth for the nominal GDP is projected at 7.45 percent, due to addition to the existing production capacity with the planned investment in infrastructure and accelerated growth in oil and non-oil output during the period.

**Inflation Rate:** Inflation rate is projected at 15.74 percent on year-on-year basis by end-2017. Consumer prices are projected to decline to 12.42 percent in 2018 and 9.21 percent on average for 2017-2037. This is based on the expected increase food production, and availability of petroleum products and stability in the exchange rate. The projection assumes that fiscal and monetary policies will be complementary during the period.

**Crude Oil Production:** Production is projected at 2.2 mbpd in 2017 and is expected to increase to 2.3 mbpd and further to 2.4 mbpd in 2018 and 2019, respectively. Crude oil production is maintained at 2.5 mbpd between 2020 and 2027 and also 2.7 mbpd in 2028 through 2037. Projection is premised on the fact that various efforts at reducing incidences of vandalism occasioned by the militancy in the Niger Delta, leakages and wastages from crude oil theft, illegal bunkering and investments in infrastructures in the sector would in the long-term impact positively on production.

**Crude Oil Price:** The price for crude oil at US\$44.5 per barrel (pd) in 2017 is projected to US\$48 per barrel in 2018 and further to US\$53 in 2019. Projection is maintained at US\$58 per barrel in 2020 through 2037. It is expected that favourable external environment in advanced and emerging market economies will increase the demand for oil.



**Exports:** Exports will continue to increase, driven largely by the non-oil exports, which are expected to be boosted by the diversification of the Nigerian economy both in the medium and long-term.

**Current Account Position:** Current account position will be in surpluses from the short to long-term owing to the expected growth in export and remittances. Also, the strategic policy geared towards increasing domestic refinery capacity is expected to lower imports, particularly crude oil and gas. Consequently, export is expected to grow faster than import throughout the projected period.

**Foreign Direct Investments:** The influx of foreign direct investments are expected to be sustained due to a more predictable macroeconomic environment, attractive real interest rate, friendlier business environment, relative political stability, improved security and infrastructure, robust external reserves and stable exchange rate, arising from a more flexible and market driven foreign exchange market.

**External Reserves:** The external reserves is expected to be robust throughout the projection period owing to significant accretion, arising from enhanced foreign exchange inflows from improved exports growth and capital inflows as well as exchange rate appreciation.

**Fiscal Deficit:** With strong growth recovery resulting from faster improvements in oil and non-oil sectors, a more diversified economy, macroeconomic stability, improved security, up tick in oil prices, and cost optimization initiatives, the fiscal deficit is projected at 2.03, 1.89 and 1.50 percent of GDP for 2018, 2019 and 2020, correspondingly compared to 2.18 percent of GDP for 2017. Oil prices are deemed to remain lower than the pre-June 2014 levels in view of the increasing role of shale oil and gas in global oil supply. However, it is expected that government revenue will be largely driven by the non-oil revenue over the forecast period as government intensifies its efforts at improving tax compliance, broadening the tax net using appropriate technology, introduction of tax on luxury items and other indirect taxes to capture a greater share of the non-formal economy, and introduce a single window to drive customs efficiencies among others. Consequently, deficit is projected at 0.68 percent of GDP on average between 2018 and 2037.

**Nominal Exchange rate:** The curbing of speculative attack and spurious demand for foreign exchange and expected enhanced foreign exchange inflows from higher exports will help to stabilize the Naira exchange with moderate appreciation from the short-long-term.

**New Financing:** It is assumed that government would access more long-term funds from bilateral and commercial sources, especially from the later to finance huge infrastructure deficit. More corporates, particularly deposit money banks, would take advantage of established sovereign benchmark to show strong presence in the ICM to access relatively less expensive foreign capital to enhance their capital structure and be in a better position to finance the real sector and infrastructural projects.

### 5.3 Pessimistic Scenario Assumptions

The Pessimistic Scenario assumes a persistent shock in crude oil price and oil production, deterioration in fiscal and current account balance, as well as further depreciation in the Naira exchange rate.

#### Box 5.3: Pessimistic Scenario Assumptions

**Real GDP Growth Rate:** The real and nominal GDP growth rates are respectively assumed at 0.60 percent and 2.34 percent for 2017 because of the likelihood of unfavourable external and internal factors giving the uncertain fiscal policies in the USA, uncertainties amidst Brexit and future of European Union, which could jeopardize Nigeria's desired aspirations. The unlikelihood of meeting our revenue targets could negatively impact the ambitious implementation of a number of public-private-partnership arrangements and capital budget releases, as well as hinder access to loans to the real sector and SME. Growth is projected to be sluggish and the economy may possibly experience a relapse to recession.

**Inflation Rate:** Inflation rate is projected at 16.5 percent on year-on-year basis by end-2017 and slightly declines to 16 percent in 2018. Consumer prices are projected to average 13.05 percent for 2019-2037. This is based on continued structural challenges which could pose a risk to achieving the growth target envisaged in the ERGP, high cost of transportation and the expected rising interest rates and protectionism in advanced and emerging economies.

**Crude Oil Price:** The price for crude is assumed at about US\$30.0 per barrel (pd) in 2017 is maintained through 2019. It is projected to slightly increase to US\$45 per barrel in 2020 through 2037. The projection is premised on uncertainty about crude price due to US policies and movement towards electric vehicles and unfavourable external environment in other advanced and emerging market economies.

**Crude Oil Production:** Crude oil production is projected at 1.4mbpd in 2017 and 2018, which is expected to marginally pick up to about 1.5mbpd in 2019 through 2037. The projection is premised on the incidence of pipeline vandalism occasioned by the militancy in the Niger Delta leakages and wastages from crude oil theft, illegal bunkering and further production cut from OPEC.

**Foreign Direct Investments:** FDIs are expected to reduce due to subdued global trade, an unpredictable macroeconomic environment, weaker capital flows, unattractive real interest rate, harsh business environment, insecurity, deteriorated infrastructure, external reserves depletion and relative exchange rate instability, throughout the projection years.

**Remittances:** The unimpressive economic performance resulting from the failure to successfully implement government reforms in the public sector, exchange rate instability and general insecurity in the country will serve as disincentive for Nigerians in diaspora to remit funds into the economy.



**External Reserves:** It is expected that the external reserves will not be able to cover the required threshold of three (3) months of imports, due largely, to huge reserves depletion arising from spurious demand for foreign exchange, speculative attacks on the Naira, reduced foreign exchange inflows and fiscal indiscipline.

**Fiscal Deficit:** The level of deficit as a percentage of GDP, is projected at 2.62, 2.58 and 2.43 percent in 2018, 2019 and 2020, respectively, and may worsen further in the long-term due to lower revenue from both the oil and non-oil sectors. The deterioration in fiscal conditions would further increase the financing gap and give rise to higher level of public borrowing.

**Nominal Exchange Rate:** The Nominal Exchange Rate is expected to fluctuate mildly in the short to long-run, because of the set-back in the CBN's recent reforms of a market-determined exchange rate regime in the inter-bank rate and other measures to stem speculative demands in the foreign exchange market, as well as, the inability to reduce demand for importation of fuel.

**New Financing:** It is assumed that government would access funds at high rates from the commercial sources as long-term funds from bilateral and multilateral sources begin to dry up.



## CHAPTER SIX

### RESULTS ANALYSIS

#### 6.0 Introduction

The 2017 debt sustainability analysis covers the Baseline, Optimistic and Pessimistic Scenarios. The Baseline Scenario is premised on the evaluation of some macroeconomic variables, current and projected fiscal data. The Optimistic Scenario is anchored on the successful implementation of the ERGP under the assumption of anticipated improvements in revenue and stable exchange rates among other variables, while the Pessimistic Scenario assumed deterioration in most of the macroeconomic variables, which include fall in revenue and volatility in exchange rates.

The analysis of external debt and fiscal sustainability for the various scenarios were subjected to stress tests. The WB/IMF DSF-LIC Analytical Template used in the exercise has an in-built shocking mechanisms (Standard Stress Tests) which are referred to as Alternative Tests (permanent shocks) and Bound Tests (temporary shocks). These are automatic shocks which the Template applies on the variables provided by the various scenarios. The details of the automatic shocks (stress tests) are as outlined below:

#### A. Alternative Tests (Permanent Shocks)

- A1. Key variables at their historical averages in 2017-2037
- A2. New public sector loans on less favourable terms in 2017-2037

#### B Bound Tests (Temporary Shock)

- B1. Real GDP growth at historical average minus one standard deviation in 2018-2019
- B2. Export value growth at historical average minus one standard deviation in 2018-2019
- B3. US dollar GDP deflator at historical average minus one standard deviation in 2018-2019
- B4. Net non-debt creating flows at historical average minus one standard deviation in 2018-2019
- B5. Combination of B1-B4 using one-half standard deviation shocks
- B6. One-time 30 percent nominal depreciation relative to the baseline in 2018

## 6.1 Baseline Scenario

### A. External Debt Sustainability

The External Debt analysis covers the external debt of the FGN and the 36 States, including the FCT. **The outcome of the analysis under the Baseline Scenario reveals that Nigeria's External Debt Portfolio remains at a Low Risk of Debt Distress.** The debt ratios are well below all of their respective thresholds throughout the projection period as shown in Table 1. External borrowing is projected to rise marginally between 2017 and 2033 and given Nigeria's current status as a Lower-Middle-Income country more funds are expected from the commercial sources, including the International Capital Market (ICM). Economic activities as measured by the GDP and Exports are projected to grow with increases in oil prices and production levels, which would impact positively on the revenue to government. It is also expected that infrastructure investments and various structural reforms that the government is implementing in the key sectors of the economy, will support Exports and boost productivity and overall economic growth. The details of the results are shown in Annexure 1 and 3.

**Table 6.1: External Debt Sustainability Indicators in Percent (2017-2037)**

Details	Threshold	2017	2018	2019	2020	2021	2022	2027	2037
<b>External Debt Stock</b>									
<b>In percent of GDP</b>	<b>40</b>								
<i>Baseline</i>		4.9	5.2	5.5	5.8	5.9	6.1	6.1	3.7
<i>Combined shocks</i>		4.9	6.8	9.5	9.9	10.1	10.3	9.5	4.9
<b>In percent of Exports</b>	<b>150</b>								
<i>Baseline</i>		46.5	57.0	72.6	66.0	57.9	61.4	71.6	66.3
<i>Combined shocks</i>		46.5	91.1	188.5	167.9	146.5	153.0	160.4	118.9
<b>In percent of Revenue</b>	<b>250</b>								
<i>Baseline</i>		73.4	74.0	81.0	86.1	89.1	93.1	94.5	70.0
<i>Combined shocks</i>		73.4	96.4	141.4	147.9	152.6	157.4	147.4	93.0
<b>External Debt Service</b>									
<b>In percent of Exports</b>	<b>20</b>								
<i>Baseline</i>		2.2	3.9	3.4	4.0	5.3	5.1	8.0	10.0
<i>Combined shocks</i>		2.2	4.7	6.6	9.1	10.6	11.8	18.9	20.3
<b>In percent of Revenue</b>	<b>20</b>								
<i>Baseline</i>		3.4	5.0	3.8	5.3	8.2	7.7	10.6	10.5
<i>Combined shocks</i>		3.4	5.3	5.4	8.3	11.8	12.5	17.2	15.2

Source: 2017 DSA

Note: The Thresholds are determined periodically by the WB/IMF, based on the CPIA Rating Exercise.



### **6.1.1 Analysis of the Standard Stress Tests**

The outcome of the Stress Tests, indicates that Nigeria's External Debt position is generally robust in the medium-term, while the impact of the shocks would lead to a deterioration of the revenue-based indicators in the long-term, if adequate measures are not taken to improve revenue and boost exports, as well as shore up the level of other forms of non-debt creating flows, such as Foreign Direct Investment (FDI). The most extreme stress tests are shown in (Table 1) and Annexures 1 (a-f). Over the period 2017–2027, a shock which combines lower GDP growth, weaker exports, a lower GDP deflator, and a fall in non-debt creating flows would weaken the export and revenue indicators. For instance, the ratio of External Debt-to-Exports moved upwards from 46.5 percent in 2017 to 188.5 percent in 2019 (Annexure 1c). In the same manner, the ratio of External Debt-to-Revenue increased from 73.4 percent in 2017 to 157.4 percent in 2022 (Annexure 1d). The ratios of External Debt Service-to-Exports and External Debt-Service-to-Revenue also deteriorated throughout the projection period (Annexure 1e and 1f). Thus, indicating that Nigeria's Total Debt portfolio is highly susceptible to Revenue shocks. There is, therefore the need to sustain the on-going reforms and initiatives aimed at boosting non-oil revenue by Government, which include the broadening of the tax base, increasing tax revenue collection, blocking of leakages, and the diversification of the economy. Some of these initiatives include the Voluntary Assets and Income Declaration Scheme (VAIDS)-a scheme that gives tax defaulters, limited tax amnesty to enable them regularise within a specified period their tax status, without incurring charges, penalties and exemption from prosecution; Electronic Payment and Filing System (e-Services) to cover e-Payments, e-Filing, e-Registration, e-Stamp Duty; Upward review of the excise duty rates for Alcoholic Beverages and Tobacco; and a review of the Pioneer Status, as part of efforts towards diversifying the economy. The details of the results are shown in Annexure 4.

## **B. Total Public Debt Sustainability - Fiscal Sustainability Analysis (The Federation – FGN, States and FCT)**

The analysis of the Fiscal Sustainability of the Federation covers the Domestic and External debt of the FGN, States and FCT, as well as their respective Revenues, including Internally Generated Revenues (IGRs). The Fiscal Sustainability has only one threshold for the ratio of Total Public Debt-to-GDP, which is set at 56 percent for countries in Nigeria's peer group.

**The result shows that Total Public Debt-to-GDP ratio remains below its threshold throughout the projection period as shown in Table 6.2 and Annexures 2a and 5a.**

Meanwhile, the Revenue indicators - Total Public Debt to Revenue and Total Debt Service to Revenue do not have international thresholds but rose from 290.4 percent in 2017 to 345.0

percent in 2022 and 44.9 percent in 2017 to 62.8 percent in 2027, respectively, after which they trended downward to 280.9 percent and 55.0 percent in 2037. These suggest that these indicators are vulnerable to revenue shocks (Annexure 2b and 2c).

**Table 6.2: Total Public Debt Sustainability Indicators in Percent (2017-2037)**

Details	Threshold	2017	2018	2019	2020	2021	2022	2027	2037
<b>Total Public Debt Stock</b>									
<b>In percent of GDP</b>	<b>56</b>								
<i>Baseline</i>		19.8	20.9	21.2	21.9	22.5	22.9	22.8	15.0
<i>Combined shocks</i>		19.8	30.9	32.1	33.8	35.6	37.3	44.7	59.4
<b>In Percent of Revenue</b>	<b>Nil</b>								
<i>Baseline</i>		290.4	293.2	309.9	320.2	333.6	345.0	349.9	280.9
<i>Combined shocks</i>		290.4	431.8	467.6	494.7	528.1	561.6	685.5	1113.0
<b>Total Public Debt Service</b>									
<b>In Percent of Revenue</b>	<b>Nil</b>								
<i>Baseline</i>		44.9	46.2	47.0	48.9	53.9	55.0	62.8	55.0
<i>Combined shocks</i>		44.9	46.1	69.7	85.6	97.4	104.2	141.4	252.1

Source: 2017 DSA

Note: Under the Fiscal Sustainability, the WB/IMF threshold is only applicable to the Total Public Debt to GDP, which is set at 56 percent.

### 6.2.1 Analysis of the Standard Stress Tests

The most extreme shocks which combine lower GDP growth, weaker exports, a lower GDP deflator and a fall in non-debt creating flows such as Foreign Direct Investments (FDIs), would weaken the ratios of Total Public Debt-to-Revenue and Total Debt Service-to-Revenue throughout the projection period. Relative to the Baseline, the ratios of Total Public Debt-to-Revenue and Total Debt Service-to-Revenue rose considerably from 290.4 percent and 44.9 percent in 2017 to 1113.0 percent and 252.1 percent in 2037, respectively. Thus, reinforcing the need to further expand the revenue base of the country as earlier highlighted. The details of the results are shown in Annexure 5b.

In the light of the foregoing, it is very evident that Nigeria's Total Debt portfolio is highly susceptible to Revenue shocks. Therefore, there is the need for concerted efforts to ensure faithful and effective implementation of the various on-going initiatives and interventions aimed at diversifying the sources of Government's revenue away from oil.

## 6.2 Optimistic Scenario

The Optimistic Scenario assumes the full implementation of the ERGP, the outcome of which resulted in a much stronger and robust total public debt ratios. The supposedly improved output and revenue favourably impacted on the debt indicators as the ratio of Total Public

Debt-to-GDP declined steadily from 16.9 percent in 2017 to as low as 4.4 percent at the end of the projection period in 2037 (Table 6.3). Similarly, the ratio of Total Debt Service-to-Revenue declined from 44.5 percent in 2017 to 17.3 percent in 2037.

**Table 6.3: Total Public Debt Sustainability Indicators in Percent (2017-2037)**

Details	Threshold	2017	2018	2019	2020	2021	2022	2027	2037
<b>Total Public Debt Stock</b>									
<b>In percent of GDP</b>	<b>56</b>								
<i>Baseline</i>		16.9	17.5	16.9	16.7	16.7	16.2	12.0	4.4
<i>Combined shocks</i>		16.9	27.4	27.5	28.0	28.7	28.8	28.1	30.7
<b>In Percent of Revenue</b>	<b>NIL</b>								
<i>Baseline</i>		359.6	359.3	384.4	357.1	360.4	357.5	287.6	139.9
<i>Combined shocks</i>		359.6	563.2	625.8	596.9	618.3	637.3	674.0	974.4
<b>Total Public Debt Service</b>									
<b>In Percent of Revenue</b>	<b>NIL</b>								
<i>Baseline</i>		44.5	43.3	45.2	42.5	45.8	43.4	35.7	17.3
<i>Combined shocks</i>		44.5	43.2	84.1	83.5	99.9	106.1	123.6	218.3

Source: 2017 DSA

Note: Under the Fiscal Sustainability, the WB/IMF threshold is only applicable to the Total Public Debt to GDP, which is set at 56 percent.

### 6.3 Pessimistic Scenario

With the assumption of a persistent decline in crude oil price (to as low as USD30pb) and quantity production, as well as further deterioration in other macroeconomic indicators, including the Naira Exchange Rate, the Debt Ratios deteriorated. The resulting low revenue from such a challenged economy adversely affected the debt indicators such that the ratio of Total Public Debt-to-Revenue significantly worsened from 352.3 percent in 2017 to 550.7 percent by 2037, so also was the ratio of Debt Service-to-Revenue, which deteriorated from 39.9 percent in 2017 to 120.6 percent at the end of the projection period (Table 6.4).

**Table 6.4: Total Public Debt Sustainability Indicators in Percent (2017-2037)**

Details	Threshold	2017	2018	2019	2020	2021	2022	2027	2037
<b>Total Public Debt Stock</b>									
<b>In percent of GDP</b>	<b>56</b>								
<i>Baseline</i>		17.2	17.9	18.5	19.0	19.6	20.0	19.3	10.5
<i>Combined shocks</i>		17.2	27.8	29.5	31.2	33.0	34.8	43.1	63.6
<b>In Percent of Revenue</b>	<b>NIL</b>								
<i>Baseline</i>		352.3	389.4	428.8	449.1	470.1	492.4	520.2	550.7
<i>Combined shocks</i>		352.3	605.2	681.8	735.4	792.3	859.4	1161.8	3329.3
<b>Total Public Debt Service</b>									
<b>In Percent of Revenue</b>	<b>NIL</b>								
<i>Baseline</i>		39.9	46.2	49.7	55.1	63.4	65.5	80.7	120.6
<i>Combined shocks</i>		39.9	46.2	86.0	119.2	139.0	152.4	236.6	828.5

Source: 2017 DSA

Note: Under the Fiscal Sustainability, the WB/IMF threshold is only applicable to the Total Public Debt to GDP, which is set at 56 percent.

## 6.4 Determination of Borrowing Limit for 2018

Considering the fact that the present Country-Specific threshold for Total Public Debt-to-GDP ratio of 19.39 percent elapses by December 31, 2017, even when the international threshold is 56 percent for countries in Nigeria's peer group, **it has become imperative that the self-imposed debt limit of 19.39 percent be reviewed upwards to a more prudent and optimal level of 25 percent in the medium-term of 2018-2020.** The proposed new limit would afford the Government an ample room to mobilise additional resources to fund investment projects that would facilitate the turnaround of the economy, in line with the aspirations of the ERGP, without jeopardising the country's debt sustainability.

In order to estimate the borrowing limit for 2018, it requires the determination of the difference between the proposed Country-Specific Threshold of 25 percent and the end-period Total Public Debt-to-GDP ratio for 2017 for the Federation, projected at 19.80 percent. Therefore, the fiscal borrowing space left for the three-year period is 5.2 percent (i.e. 25.00 percent less 19.80 percent), and based on the projected 2018 GDP of US\$360.6 billion, the quantum of borrowing for 2018 will be 1.73 percent of US\$360.6 billion, which translates to US\$6.25 billion. **Therefore, the maximum amount that could be borrowed (Domestic and External) for the fiscal year-2018 by the Government without violating the proposed Country-Specific Threshold of 25 percent up to 2020 would be US\$6.25 billion or ₦1,906.37 billion (at N305/US\$1).** Accordingly, for the fiscal year 2018, the maximum amount of US\$6.25 billion that could be borrowed is proposed to be sourced equally (50:50) from the Domestic and External sources, respectively, as follows:



- **New Domestic Borrowing US\$3.125 billion (equivalent of about ₦953.18 billion); and,**
- **New External Borrowing: US\$3.125 billion (equivalent of about ₦953.18billion).**

It is worthy to note that the borrowing space is a function of the size of the GDP, and these recommended limits are meant to provide a guide to Government's borrowing activities for 2018, which would ensure that the self-imposed Debt Limit is not unduly breached.

## **Conclusion**

**The result of the 2017 DSA exercise showed that Nigeria's risk of debt distress remained Moderate, indicating a breach of the Threshold by just one of the Debt Portfolio indicators (Total Public Debt Service to Revenue), when the portfolio is subjected to shocks (Stress Tests). It further highlighted the vulnerability of the Debt Portfolio to shocks in Revenue and Exports, as well as substantial Currency devaluation.**



## CHAPTER SEVEN

### SUMMARY OF KEY FINDINGS AND RECOMMENDATIONS

#### 6.1 Summary of Key Findings

- i. The outcome of the analyses under the Baseline Scenario, revealed that Nigeria's External Debt portfolio remained at a Low Risk of Debt Distress, as the debt ratios were well below all of their respective thresholds throughout the projection period.
- ii. The Fiscal Sustainability Analysis for the Federation (Federal, States and FCT), showed that the ratio of Total Public Debt-to-GDP remained below its threshold throughout the projection period. The ratio of Total Public Debt-to-GDP for 2017 was projected at 19.80 percent.
- iii. Both the External and Fiscal Sustainability Analyses showed that all the Revenue indicators (the ratios of Debt-to-Revenue and Debt Service-to-Revenue) deteriorated under varying shocks, suggesting that any prolonged shocks on the revenue would lead to Debt Distress in the medium to long-term, except other sources of revenue are speedily developed to enhance the revenue generation performance of the country
- iv. Under the Optimistic Scenario, the debt indicators showed remarkable improvements, while under the Pessimistic Scenario, all the indicators weakened throughout the projection period.

**The result of the 2017 DSA exercise therefore, showed that Nigeria's risk of debt distress remained Moderate, indicating a breach of the Threshold by just one of the Debt Portfolio indicators (Total Public Debt Service to Revenue), when the portfolio is subjected to shocks (Stress Tests). It further highlighted the vulnerability of the Debt Portfolio to shocks in Revenue and Exports, as well as substantial Currency devaluation.**

#### 6.1 Key Recommendations

The key policy recommendations of the 2017 DSA exercise are as follows:

##### **Borrowing Limit**

- i. Considering the fact that the present Country-Specific threshold for Total Public Debt-to-GDP ratio of 19.39 percent elapses by December 31, 2017, even when the international threshold is 56 percent for countries in Nigeria's peer group, **it has**



**become imperative that the self-imposed debt limit of 19.39 percent be reviewed upwards to a more prudent and optimal level of 25 percent in the medium-term of 2018-2020.** The proposed new limit would afford the Government an ample room to mobilise additional resources to fund investment projects that would facilitate the turnaround of the economy, in line with the aspirations of the ERGP, without jeopardising the country's debt sustainability.

- ii. In order to estimate the borrowing limit for 2018, it requires the determination of the difference between the proposed Country-Specific Threshold of 25 percent and the end-period Total Public Debt-to-GDP ratio for 2017 for the Federation, projected at 19.80 percent. Therefore, the fiscal borrowing space left for the three-year period is 5.2 percent (i.e. 25.00 percent less 19.80 percent), and based on the projected 2018 GDP of US\$360.6 billion, the quantum of borrowing for 2018 will be 1.73 percent of US\$360.6 billion, which translates to US\$6.25 billion. **Therefore, the maximum amount that could be borrowed (Domestic and External) for the fiscal year-2018 by the Government without violating the proposed Country-Specific Threshold of 25 percent up to 2020 would be US\$6.25 billion or ₦1,906.37 billion (at N305/US\$1).** Accordingly, for the fiscal year 2018, the maximum amount of US\$6.25 billion that could be borrowed is proposed to be sourced equally (50:50) from the Domestic and External sources, respectively, as follows:

- **New Domestic Borrowing US\$3.125 billion (equivalent of about ₦953.18 billion); and,**
- **New External Borrowing: US\$3.125 billion (equivalent of about ₦953.18 billion).**

It is worthy to note that the borrowing space is a function of the size of the GDP, and these recommended limits are meant to provide a guide to Government's borrowing activities for 2018, which would ensure that the self-imposed Debt Limit is not unduly breached.

### **Boosting Revenue Generation**

- iii. In line with the efforts at boosting non-oil revenue, Government is encouraged to sustain the on-going initiatives aimed at broadening the tax base and increasing tax revenue collection and blocking leakages, and diversification of the economy. Some of these initiatives have earlier been highlighted.



- iv. Given that in the short to medium-term, oil would still remain a key revenue earner, the Federal Government is encouraged to further strengthen its machinery for achieving sustained peace and stability in the Niger Delta region of the country. This has become inevitable in view of the need to ensure steady and uninterrupted crude oil exploration and production in the region.
- v. As part of the long-term initiatives for diversifying the economy and boosting non-oil revenue, the Federal Government is also encouraged to fast-track the implementation of its reforms in the Solid Minerals sector of the economy such as the establishment of the Solid Minerals Development Fund and to formalise Artisanal and Small-Scale Mining activities by automating Mining Cadastral Office operations etc. This will facilitate the opening up of this critical sector and make it more competitive, and revenue generating. It is expected that the increased revenue from this sector would favourably impact on public debt, by reducing Government borrowing needs and public debt stock in the long-term.
- vi. In order to enable Government raise fresh funds to supplement its revenue for capital investments, Government is encouraged to privatise some of its viable enterprises and have them listed on The Nigerian Stock Exchange. Hence, the need for Government to sustain the on-going efforts aimed at reforming, restructuring and repositioning some of these enterprises for privatization or commercialization, including the Nigerian Postal Services (NIPOST), Nigerian Commodities Exchange, Lagos International Trade Fair Complex, National Stadium and Nigerian Security and Minting Company (NSPMC). Aside saving government huge budgetary funds usually allocated for such entities annually, it will lead to wealth redistribution through public ownership of enterprises, as well as facilitate further deepening of the domestic capital market.
- vii. As part of the on-going initiatives at attracting new investments into the economy and create new jobs, the Government is further encouraged to sustain its current efforts at implementing the Ease of Doing Business reforms, under the Presidential Enabling Business Environment Council (PEBEC). This will help to boost non-debt creating investments such as FDIs, which will enhance the generation of tax revenue, and thus, a reduction in government borrowing in the long-term.

### **Optimizing Efficiency in Expenditure**

- viii. There is need to sustain Government's initiatives at reducing wastages through plugging of leakages and fostering fiscal transparency, by strengthening the Efficiency

Unit in the Federal Ministry of Finance. In addition, there is the need to fast-track the implementation of the Integrated Payroll and Personnel Information System (IPPIS) across the government MDAs to automate personnel records and salaries' payment process.

- ix. In view of the uncertainty around the resources accruing to all tiers of Government, as a result of the various shocks in the economy, State Governments need to be encouraged to implement effective fiscal reforms including the States 22-Point Fiscal Sustainability Plan (FSP), aimed at achieving improved accountability and transparency, increase public revenue, rationalise public expenditure, improve public financial management and manage debt sustainably at the sub-national level. This is expected to largely curtail the over-dependence on federal allocations and occasional Federal Government's bail-outs.

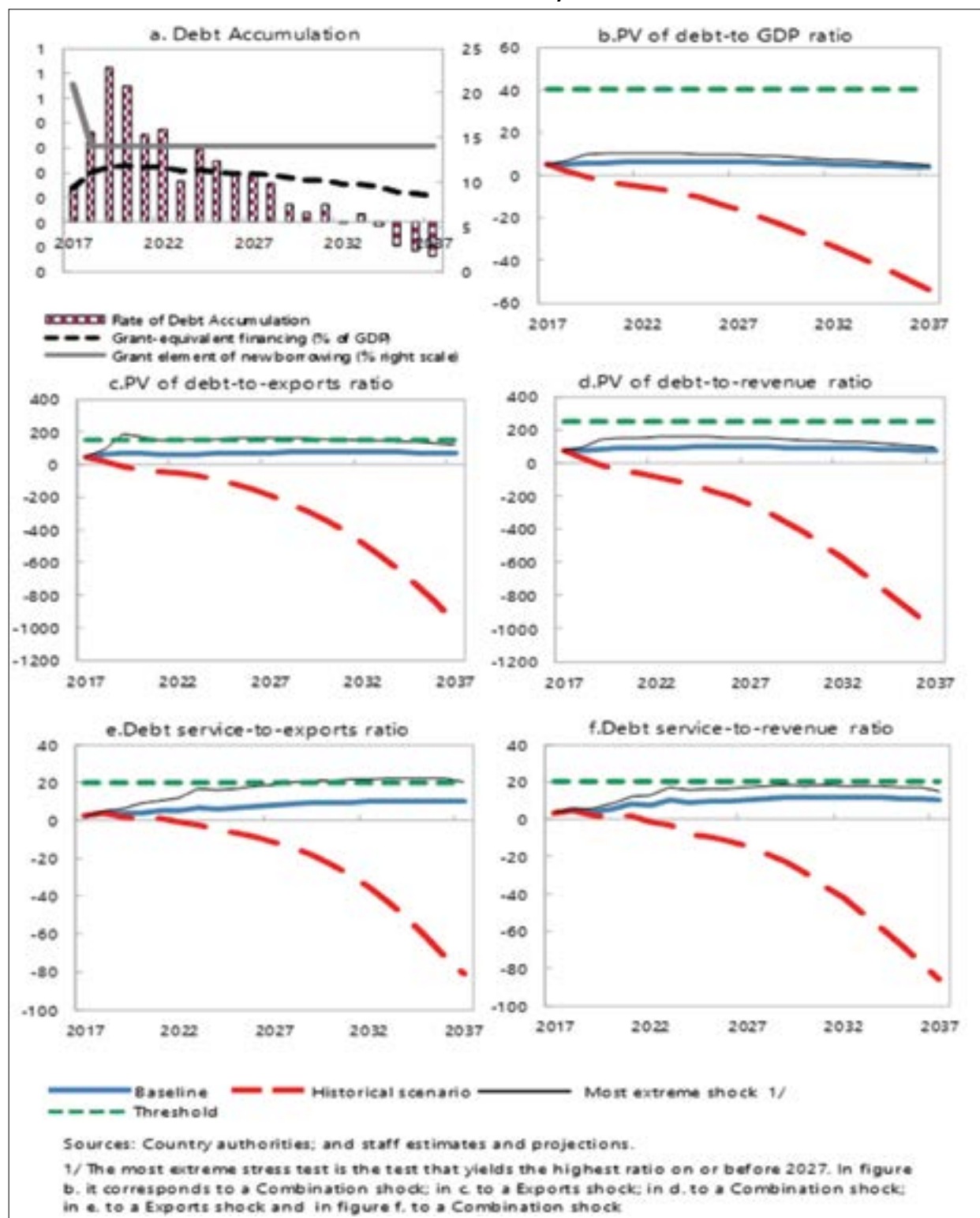
### **Increase Investment in Critical Infrastructure to Promote the Development of the Real Sector**

- x. As part of efforts at mobilising additional financing for infrastructure development, there is need to encourage credible Private Sector entities, to invest in infrastructure through the issuance of Sovereign Guarantees to priority sector areas, with high-impact on the economy.
- xi. There is also the need to creatively explore other alternative and viable sources of financing critical infrastructure projects, through Public-Private Partnership (PPP) arrangements – particularly Concessioning schemes to attract Private Sector to participate in the delivery of viable infrastructural projects, as well as the use of Project-tied Bonds such as Infrastructural Bonds and the Sukuk.

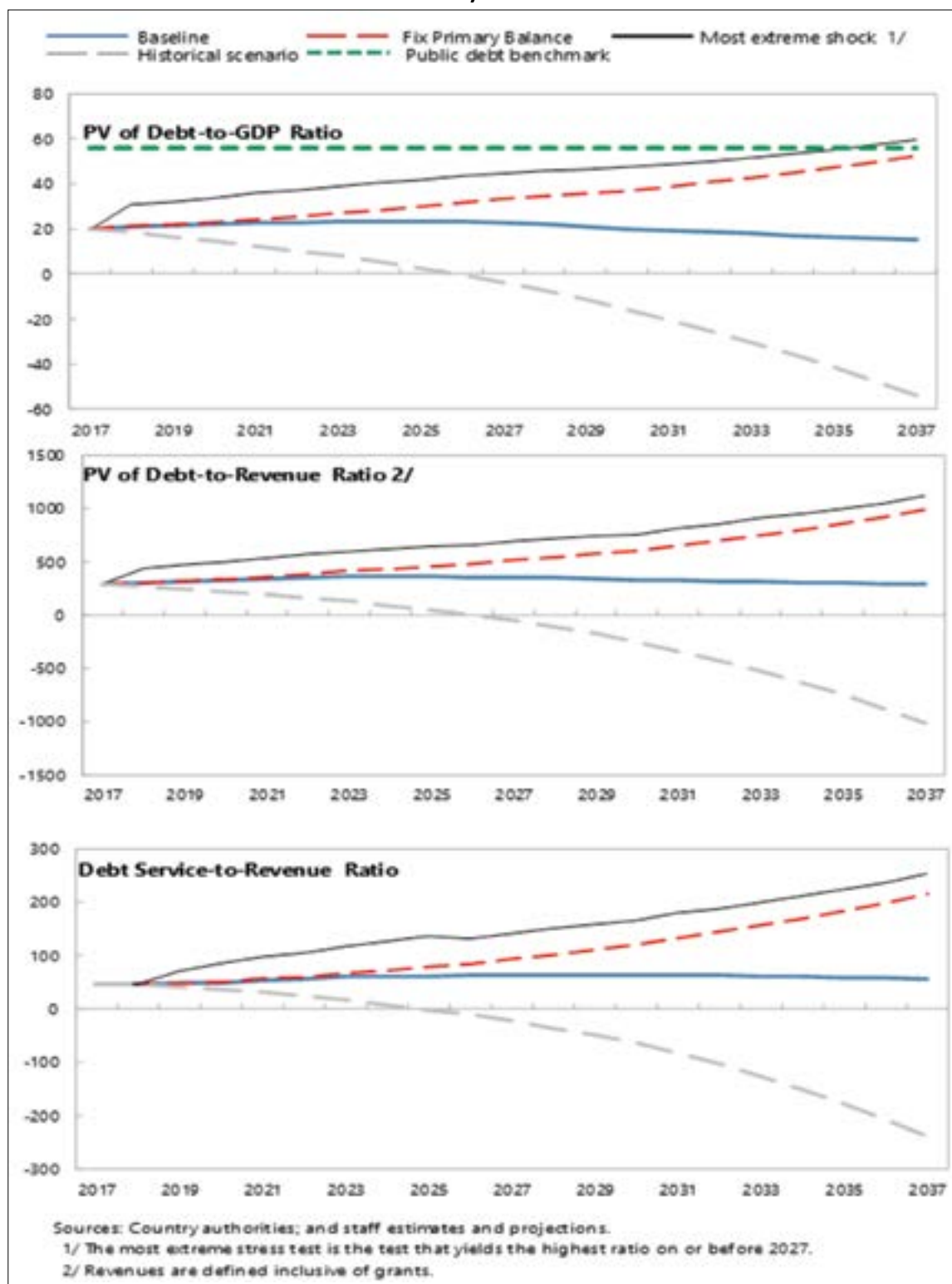
### **Upscale Capacity Building for Sub-nationals**

- xii. As part of efforts at enhancing overall public debt sustainability of the Federation (Federal and States), it is imperative to ensure the sustenance of the on-going DMO's capacity building initiatives for the Sub-nationals (States), so as to upscale their technical competence and skills in public debt management. This would help to enhance public debt management practices at the sub-national level, and thus, help realise overall public debt sustainability.

## Annexure 1: Nigeria's External Debt Sustainability Indicators Under Alternative Scenarios, 2017-2037



## Annexure 2: Total Public Debt Sustainability Under Alternative Scenarios, 2017-2037





### Annexure 3: External Debt Sustainability Framework, Baseline scenario, 2014-2037 1/

(In percent of GDP, unless otherwise indicated)

	Actual			Historical <sup>6/</sup> Standard <sup>6/</sup> Average Deviation	Projections										2017-2022		2023-2037	
	2014	2015	2016		2017	2018	2019	2020	2021	2022	Average	2027	2037	Average	2027	2037	Average	
<b>External debt (nominal) 1/</b> of which: public and publicly guaranteed (PPG)	2.4	2.6	4.8			3.9	4.1	4.5	4.9	5.1	5.3		5.6	4.1		5.6	4.1	
Change in external debt	2.0	2.2	4.1			3.3	3.6	4.0	4.4	4.6	4.8		5.2	3.9		5.2	3.9	
Identified net debt-creating flows	0.2	0.2	2.2			-0.9	0.3	0.4	0.4	0.2	0.2		0.0	-0.3		0.0	-0.3	
<b>Non-interest current account deficit</b>	-1.1	2.8	-1.0			-2.2	-1.8	-1.8	-2.1	-3.9	-3.6		-1.4	2.4		-1.4	2.4	
Deficit in balance of goods and services	-0.3	3.1	-0.9	-3.6	3.9	-1.0	-0.5	-0.6	-1.0	-2.8	-2.6		-0.5	3.0	0.5	-0.5	3.0	0.5
Exports	0.4	4.8	2.6			2.7	3.8	3.8	3.5	1.6	1.7		3.3	5.5		3.3	5.5	
Imports	16.1	10.2	11.5			10.6	9.1	7.5	8.8	10.2	9.9		8.5	5.6		8.5	5.6	
Net current transfers (negative = inflow)	16.5	15.0	14.1			13.3	12.9	11.3	12.3	11.8	11.6		11.8	11.1		11.8	11.1	
of which: official	-4.2	-4.2	-6.0	-5.4	1.0	-5.3	-5.4	-5.1	-4.9	-4.7	-4.6		-3.9	-2.6	-3.5	-3.9	-2.6	-3.5
Other current account flows (negative = net inflow)	-0.4	-0.3	-0.4			-0.1	-0.3	-0.3	-0.2	-0.2	-0.2		-0.2	-0.1		-0.2	-0.1	
<b>Net FDI (negative = inflow)</b>	3.6	2.5	2.5			1.6	1.1	0.7	0.4	0.3	0.3		0.1	0.0		0.1	0.0	
<b>Endogenous debt dynamics 2/</b>	-0.9	-0.6	-1.3	-1.5	0.6	-1.4	-1.4	-1.2	-1.2	-1.2	-1.1		-1.0	-0.6	-0.8	-1.0	-0.6	-0.8
Contribution from nominal interest rate	0.0	0.4	1.2			0.2	0.1	0.1	0.1	0.1	0.1		0.0	0.0		0.0	0.0	
Contribution from real GDP growth	0.1	0.1	0.1			0.2	0.2	0.2	0.2	0.2	0.2		0.2	0.2		0.2	0.2	
Contribution from price and exchange rate changes	-0.1	-0.1	0.1			0.0	-0.1	-0.1	-0.1	-0.1	-0.2		-0.2	-0.2		-0.2	-0.2	
<b>Residual (3-4) 3/</b>	0.1	0.3	1.1			--	--	--	--	--	--		--	--		--	--	
of which: exceptional financing	1.3	-2.6	3.2			1.4	2.0	2.1	2.5	4.1	3.9		1.4	-2.7		1.4	-2.7	
PV of external debt 4/	-1.6	-1.2	-0.4			1.6	0.6	0.3	0.7	0.6	0.5		0.5	0.3		0.5	0.3	
In percent of exports	0.4	0.3	6.8			5.5	5.7	6.0	6.3	6.4	6.5		6.4	3.9		6.4	3.9	
<b>PV of PPG external debt</b>	2.7	3.4	58.6			51.9	63.0	79.6	71.7	62.6	66.1		76.2	70.7		76.2	70.7	
In percent of exports	0.0	0.0	6.1			4.9	5.2	5.5	5.8	5.9	6.1		6.1	3.7		6.1	3.7	
In percent of government revenues	0.0	0.0	53.0			46.5	57.0	72.6	66.0	57.9	61.4		71.6	66.3		71.6	66.3	
Debt service-to-exports ratio (in percent)	98.0	110.0	78.3			73.4	74.0	81.0	86.1	89.1	93.1		94.5	70.0		94.5	70.0	
PPPG debt service-to-exports ratio (in percent)	1.3	3.8	1.3			2.8	4.5	4.2	4.7	5.9	5.6		8.5	10.5		8.5	10.5	
PPPG debt service-to-revenue ratio (in percent)	0.3	0.9	1.2			2.2	3.9	3.4	4.0	5.3	5.1		8.0	10.0		8.0	10.0	
Total gross financing need (billions of U.S. dollars)	0.6	1.4	1.8			3.4	5.0	3.8	5.3	8.2	7.7		10.6	10.5		10.6	10.5	
Non-interest current account deficit that stabilizes debt ratio	-4.7	13.9	-7.0			-7.1	-5.1	-5.7	-7.1	-14.0	-13.4		-3.4	24.5		-3.4	24.5	
<b>Key macroeconomic assumptions</b>	-0.5	2.9	-3.1			-0.2	-0.7	-1.0	-1.4	-3.0	-2.8		-0.5	3.2		-0.5	3.2	
Real GDP growth (in percent)	6.2	2.8	-1.6	4.9	2.7	0.9	2.0	2.6	2.6	3.0	3.5	2.4	4.1	5.0	4.5	4.1	5.0	4.5
GDP deflator in US dollar terms (change in percent)	-3.8	-11.2	-29.3	0.5	16.0	5.3	-0.1	4.0	1.2	0.9	0.0	1.9	0.0	0.0	-0.1	0.0	0.0	-0.1
Effective interest rate (percent) 5/	4.1	4.7	2.9	9.4	11.9	4.3	4.3	4.8	4.8	4.5	4.7	4.6	4.6	5.4	5.3	4.6	5.4	5.3
Growth of exports of G&S (US dollar terms, in percent)	-15.6	-42.0	-21.6	-0.6	27.9	-2.5	-12.4	-12.0	21.1	20.9	0.2	2.6	0.4	0.6	0.5	2.6	0.4	0.6
Growth of imports of G&S (US dollar terms, in percent)	11.9	-16.8	-94.7	13.4	63.3	-0.1	-0.8	-6.5	12.4	-0.1	1.9	1.1	2.7	4.7	4.1	1.1	2.7	4.7
Grant element of new public sector borrowing (in percent)	--	--	--	--	--	21.1	14.1	14.1	14.1	14.1	14.1	15.3	14.1	14.1	14.1	14.1	14.1	14.1
Government revenues (excluding grants, in percent of GDP)	8.3	6.6	7.8	--	--	6.7	7.0	6.7	6.7	6.6	6.5	6.4	6.4	5.3	6.0	6.4	5.3	6.0
Aid flows (in billions of US dollars) 7/	8.3	9.5	9.9	--	--	0.5	0.7	0.9	0.9	1.0	1.0	1.0	1.0	0.9	--	1.0	0.9	--
of which: Grants	0.2	0.7	0.4	--	--	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	--	0.5	0.5	--
of which: Concessional loans	8.1	8.8	9.5	--	--	0.2	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	--	0.4	0.4	--
Grant-equivalent financing (in percent of GDP) 8/	--	--	--	--	--	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.2
Grant-equivalent financing (in percent of external financing) 8/	--	--	--	--	--	51.9	30.2	26.9	26.7	27.0	27.6		25.9	30.8	27.0	25.9	30.8	27.0





Memorandum items:													
Nominal GDP (Billions of US dollars)	524.8	479.1	333.3	354.0	360.6	384.8	399.4	415.1	429.6		512.9	823.6	
Nominal dollar GDP growth	2.2	-0.7	-30.4	6.2	1.9	6.7	3.0	3.9	3.5	4.3	4.1	5.0	4.4
PV of PPG external debt (in billions of US dollars)			17.0	17.4	18.7	21.0	23.1	24.5	26.0		31.1	30.4	
(PVt-PVt-1)/GDPt-1 (in percent)				0.1	0.4	0.6	0.6	0.4	0.4	0.4	0.2	-0.1	0.1
Gross workers' remittances (Billions of US dollars)	20.8	20.4	19.5	19.6	19.6	19.7	19.8	19.8	19.9		20.4	21.6	
PV of PPG external debt (in percent of GDP + remittances)	0.4	0.3	5.8	4.7	4.9	5.2	5.5	5.6	5.8		5.8	3.6	
PV of PPG external debt (in percent of exports + remittances)	2.7	3.4	35.2	30.6	35.7	43.2	42.2	39.4	41.8		48.7	45.1	
Debt service of PPG external debt (in percent of exports + remittances)	0.0	0.0	0.8	1.4	2.4	2.1	2.6	3.6	3.5		5.5	6.8	
Sources: Country authorities; and staff estimates and projections.													
1/ Includes both public and private sector external debt.													
2/ Derived as $(Y - g - p)(1 - g - p)$ times previous period debt ratio, with $r =$ nominal interest rate, $g =$ real GDP growth rate, and $p =$ growth rate of GDP deflator in U.S. dollar terms.													
3/ Includes exceptional financing (i.e., changes in arrears and debt relief); changes in gross foreign assets; and valuation adjustments. For projections also includes contribution from price and exchange rate changes.													
4/ Assumes that PV of private sector debt is equivalent to its face value.													
5/ Current-year interest payments divided by previous period debt stock.													
6/ Historical averages and standard deviations are generally derived over the past 10 years, subject to data availability.													
7/ Defined as grants, concessional loans, and debt relief.													
8/ Grant-equivalent financing includes grants provided directly to the government and through new borrowing (difference between the face value and the PV of new debt).													



## Annexure 4: Sensitivity Analysis for Key Indicators of Public and Publicly Guaranteed External Debt, 2017-2037 (In percent)

Debt service-to-exports ratio										
<b>Baseline</b>	2	4	3	4	5	5	8	10		
<b>A. Alternative Scenarios</b>										
A1. Key variables at their historical averages in 2017-2037 <sup>1/</sup>	2	4	2	1	1	-1	-11	-81		
A2. New public sector loans on less favorable terms in 2017-2037 <sup>2/</sup>	2	4	3	4	5	5	9	17		
<b>B. Bound Tests</b>										
B1. Real GDP growth at historical average minus one standard deviation in 2018-2019	2	4	3	4	5	5	8	10		
B2. Export value growth at historical average minus one standard deviation in 2018-2019 <sup>3/</sup>	2	5	7	9	11	12	19	20		
B3. US dollar GDP deflator at historical average minus one standard deviation in 2018-2019	2	4	3	4	5	5	8	10		
B4. Net non-debt creating flows at historical average minus one standard deviation in 2018-2019 <sup>4/</sup>	2	4	4	5	6	7	10	12		
B5. Combination of B1-B4 using one-half standard deviation shocks	2	4	4	6	7	7	12	13		
B6. One-time 30 percent nominal depreciation relative to the baseline in 2018 <sup>5/</sup>	2	4	3	4	5	5	8	10		
<b>Debt service-to-revenue ratio</b>										
<b>Baseline</b>	3	5	4	5	8	8	11	11		
<b>A. Alternative Scenarios</b>										
A1. Key variables at their historical averages in 2017-2037 <sup>1/</sup>	3	5	2	1	2	-2	-15	-86		
A2. New public sector loans on less favorable terms in 2017-2037 <sup>2/</sup>	3	5	4	5	8	8	12	17		
<b>B. Bound Tests</b>										
B1. Real GDP growth at historical average minus one standard deviation in 2018-2019	3	5	4	5	8	8	11	11		
B2. Export value growth at historical average minus one standard deviation in 2018-2019 <sup>3/</sup>	3	5	5	8	11	12	17	14		
B3. US dollar GDP deflator at historical average minus one standard deviation in 2018-2019	3	5	6	8	12	11	15	15		
B4. Net non-debt creating flows at historical average minus one standard deviation in 2018-2019 <sup>4/</sup>	3	5	5	7	10	10	14	12		
B5. Combination of B1-B4 using one-half standard deviation shocks	3	5	5	8	12	12	17	15		
B6. One-time 30 percent nominal depreciation relative to the baseline in 2018 <sup>5/</sup>	3	7	5	8	12	11	15	15		
<b>Memorandum item:</b>										
Grant element assumed on residual financing (i.e., financing required above baseline) <sup>6/</sup>	6	6	6	6	6	6	6	6		
Sources: Country authorities, and staff estimates and projections.										
<sup>1/</sup> Variables include real GDP growth, growth of GDP deflator (in U.S. dollar terms), non-interest current account in percent of GDP, and non-debt creating flows.										
<sup>2/</sup> Assumes that the interest rate on new borrowing is by 2 percentage points higher than in the baseline, while grace and maturity periods are the same as in the baseline.										
<sup>3/</sup> Exports values are assumed to remain permanently at the lower level, but the current account as a share of GDP is assumed to return to its baseline level after the shock (implicitly assuming an offsetting adjustment in import levels).										
<sup>4/</sup> Includes official and private transfers and FDI.										
<sup>5/</sup> Depreciation is defined as percentage decline in dollar/local currency rate, such that it never exceeds 100 percent.										
<sup>6/</sup> Applies to all stress scenarios except for A2 (less favorable financing) in which the terms on all new financing are as specified in Footnote 2.										



# Annexure 4: Sensitivity Analysis for Key Indicators of Public and Publicly Guaranteed External Debt, 2017-2037 (continued) (In percent)

	Projections								
	2017	2018	2019	2020	2021	2022	2027	2037	
	PV of debt-to GDP ratio								
Baseline									
A. Alternative Scenarios									
A1. Key variables at their historical averages in 2017-2037 1/									
A2. New public sector loans on less favorable terms in 2017-2037 2									
B. Bound Tests									
B1. Real GDP growth at historical average minus one standard deviation in 2018-2019									
B2. Export value growth at historical average minus one standard deviation in 2018-2019 3/									
B3. US dollar GDP deflator at historical average minus one standard deviation in 2018-2019									
B4. Net non-debt creating flows at historical average minus one standard deviation in 2018-2019 4/									
B5. Combination of B1-B4 using one-half standard deviation shocks									
B6. One-time 30 percent nominal depreciation relative to the baseline in 2018 3/									
PV of debt-to-exports ratio									
Baseline									
A. Alternative Scenarios									
A1. Key variables at their historical averages in 2017-2037 1/									
A2. New public sector loans on less favorable terms in 2017-2037 2									
B. Bound Tests									
B1. Real GDP growth at historical average minus one standard deviation in 2018-2019									
B2. Export value growth at historical average minus one standard deviation in 2018-2019 3/									
B3. US dollar GDP deflator at historical average minus one standard deviation in 2018-2019									
B4. Net non-debt creating flows at historical average minus one standard deviation in 2018-2019 4/									
B5. Combination of B1-B4 using one-half standard deviation shocks									
B6. One-time 30 percent nominal depreciation relative to the baseline in 2018 3/									
PV of debt-to-revenue ratio									
Baseline									
A. Alternative Scenarios									
A1. Key variables at their historical averages in 2017-2037 1/									
A2. New public sector loans on less favorable terms in 2017-2037 2									
B. Bound Tests									
B1. Real GDP growth at historical average minus one standard deviation in 2018-2019									
B2. Export value growth at historical average minus one standard deviation in 2018-2019 3/									
B3. US dollar GDP deflator at historical average minus one standard deviation in 2018-2019									
B4. Net non-debt creating flows at historical average minus one standard deviation in 2018-2019 4/									
B5. Combination of B1-B4 using one-half standard deviation shocks									
B6. One-time 30 percent nominal depreciation relative to the baseline in 2018 3/									





## Annexure 5a: Public Sector Debt Sustainability Framework, Baseline Scenario, 2014-2037 (In percent of GDP, unless otherwise indicated)

	Actual			Average	Standard Deviation	Estimate		Projections				
	2014	2015	2016			2017	2018	2019	2020	2021	2022	2023-37 Average
<b>Public sector debt 1/</b>	13.5	14.2	20.5			18.2	19.3	19.8	20.5	21.2	21.7	21.9
of which: foreign-currency denominated	2.0	2.2	4.1			3.3	3.6	4.0	4.4	4.6	4.8	5.2
Change in public sector debt	3.0	0.7	6.3			-2.4	1.2	0.4	0.8	0.7	0.5	-0.2
Identified debt-creating flows	-3.5	-3.2	1.5			-4.4	-0.3	-1.3	-0.9	-1.0	-1.1	-1.9
Primary deficit	-4.4	-3.3	-3.0		2.0	-1.9	-2.1	-2.2	-2.4	-2.5	-2.6	-3.2
Revenue and grants	8.4	6.7	7.9			6.8	7.1	6.9	6.8	6.7	6.6	6.3
of which: grants	0.0	0.2	0.1			0.1	0.1	0.1	0.1	0.1	0.1	0.1
Primary (noninterest) expenditure	3.9	3.4	4.9			4.9	5.1	4.6	4.4	4.2	4.0	3.3
Automatic debt dynamics	0.9	0.1	4.6			-2.5	1.7	0.9	1.5	1.5	1.5	1.3
Contribution from interest rate/growth differential	0.6	-0.1	2.7			-1.8	1.7	0.9	1.5	1.5	1.5	1.2
of which: contribution from average real interest rate	1.2	0.3	2.5			-1.6	2.1	1.4	2.0	2.1	2.3	2.2
of which: contribution from real GDP growth	-0.6	-0.4	0.2			-0.2	-0.4	-0.5	-0.5	-0.6	-0.7	-0.9
Contribution from real exchange rate depreciation	0.3	0.2	1.9			-0.7	0.0	0.0	0.0	0.0	0.0	-0.9
Other identified debt-creating flows	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0
Privatization receipts (negative)	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0
Recognition of implicit or contingent liabilities	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0
Debt relief (HIPC and other)	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other (specify, e.g. bank recapitalizations)	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0
Residual, including asset changes	6.5	4.0	4.8			2.0	1.5	1.7	1.7	1.7	1.5	1.7
<b>Other Sustainability Indicators</b>												
<b>PV of public sector debt</b>			22.5			19.8	20.9	21.2	21.9	22.5	22.9	22.8
of which: foreign-currency denominated			6.1			4.9	5.2	5.3	5.8	5.9	6.1	6.1
of which: external			6.1			4.9	5.2	5.5	5.8	5.9	6.1	6.1
Gross financing need 2/	-0.3	3.5	4.1			5.2	5.8	5.7	5.5	5.0	5.7	5.5
PV of public sector debt-to-revenue and grants ratio (in percent)			282.7			200.4	203.2	209.0	220.2	232.6	245.0	249.0
PV of public sector debt-to-revenue ratio (in percent)			288.2			204.9	208.4	215.5	226.1	239.8	251.7	255.6
of which: external 3/			78.3			73.4	74.0	81.0	86.1	88.1	93.1	94.3
Debt service-to-revenue and grants ratio (in percent) 4/	12.7	42.3	31.4			44.9	46.2	47.0	48.9	53.8	55.0	62.8
Debt service-to-revenue ratio (in percent) 4/	12.7	43.2	31.9			45.6	47.0	47.9	49.8	54.9	56.1	63.8
Primary deficit that stabilizes the debt-to-GDP ratio	-7.4	-4.0	-9.3			0.4	-3.2	-2.6	-3.2	-3.2	-3.1	-3.0
<b>Key macroeconomic and fiscal assumptions</b>												
Real GDP growth (in percent)	6.2	2.8	-1.6	4.9	3.7	0.9	2.0	2.6	2.6	3.0	3.5	4.1
Average nominal interest rate on foreign debt (in percent)	1.6	3.4	3.6	8.8	12.2	5.2	5.1	5.5	5.5	5.1	5.2	5.3
Average real interest rate on domestic debt (in percent)	15.0	2.3	21.2	5.3	10.8	-0.9	19.2	9.0	11.7	12.1	12.6	8.1
Real exchange rate depreciation (in percent, + indicates depreciation)	17.4	8.2	86.4	13.0	29.5	-16.7						11.8
Inflation rate (GDP deflator, in percent)	-3.0	50.1	-8.9	6.8	11.1	26.8	-0.1	4.0	1.2	0.9	0.0	0.0
Growth of real primary spending (deflated by GDP deflator, in percent)	-10.9	-10.8	-4.1	2.0	14.5	0.8	5.9	-6.4	-2.3	-1.0	-1.6	-0.8
Gross element of new external borrowing (in percent)						21.1	14.1	14.1	14.1	14.1	14.1	14.1

Sources: Country authorities; and staff estimates and projections.

1/ Indicate coverage of public sector, e.g., general government or nonfinancial public sector. Also whether net or gross debt is used.

2/ Gross financing need is defined as the primary deficit plus debt service plus the stock of short term debt at the end of the last period.

3/ Revenues excluding grants.

4/ Debt service is defined as the sum of interest and amortization of medium and long term debt.

5/ Historical averages and standard deviations are generally derived over the past 10 years, subject to data availability.



## Annexure 5b: Sensitivity Analysis for Key Indicators of Public Debt 2017-2037

	Projections										
	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
<b>PV of Debt-to-GDP Ratio</b>											
<b>Baseline</b>	20	21	21	22	23	23	23	23	23	23	15
<b>A. Alternative scenarios</b>											
A1. Real GDP growth and primary balance are at historical averages	20	18	16	14	12	10	10	-4	-54		
A2. Primary balance is unchanged from 2017	20	21	22	23	24	25	25	23	53		
A3. Permanently lower GDP growth 1/	20	21	22	23	23	24	24	27	51		
<b>B. Bound tests</b>											
B1. Real GDP growth is at historical average minus one standard deviations in 2018-20	20	21	21	22	23	23	23	23	16		
B2. Primary balance is at historical average minus one standard deviations in 2018-20	20	21	22	22	23	23	23	24	17		
B3. Combination of B1-B2 using one half standard deviation shocks	20	20	19	19	19	19	19	17	2		
B4. One-time 30 percent real depreciation in 2018	20	23	23	24	25	25	25	26	24		
B5. 10 percent of GDP increase in other debt-creating flows in 2018	20	31	32	34	36	37	45	59			
<b>PV of Debt-to-Revenue Ratio 2/</b>											
<b>Baseline</b>	290	293	310	320	334	345	350	350	261		
<b>A. Alternative scenarios</b>											
A1. Real GDP growth and primary balance are at historical averages	290	258	237	211	182	155	125	1020			
A2. Primary balance is unchanged from 2017	290	295	316	335	358	383	403	414	574		
A3. Permanently lower GDP growth 1/	290	295	315	329	340	363	363	363	574		
<b>B. Bound tests</b>											
B1. Real GDP growth is at historical average minus one standard deviations in 2018-20	290	293	311	321	335	347	354	294			
B2. Primary balance is at historical average minus one standard deviations in 2018-20	290	295	316	327	341	353	362	312			
B3. Combination of B1-B2 using one half standard deviation shocks	290	276	277	282	289	294	260	34			
B4. One-time 30 percent real depreciation in 2018	290	324	341	352	366	380	401	447			
B5. 10 percent of GDP increase in other debt-creating flows in 2018	290	432	468	495	528	562	686	1113			
<b>Debt Service-to-Revenue Ratio 2/</b>											
<b>Baseline</b>	45	46	47	49	54	55	63	55			
<b>A. Alternative scenarios</b>											
A1. Real GDP growth and primary balance are at historical averages	45	45	40	35	31	24	24	241			
A2. Primary balance is unchanged from 2017	45	46	47	50	57	60	93	214			
A3. Permanently lower GDP growth 1/	45	46	48	50	56	56	75	110			
<b>B. Bound tests</b>											
B1. Real GDP growth is at historical average minus one standard deviations in 2018-20	45	46	47	49	54	55	64	58			
B2. Primary balance is at historical average minus one standard deviations in 2018-20	45	46	47	50	55	57	66	62			
B3. Combination of B1-B2 using one half standard deviation shocks	45	45	44	43	43	43	43	-2			
B4. One-time 30 percent real depreciation in 2018	45	47	49	52	56	60	77	104			
B5. 10 percent of GDP increase in other debt-creating flows in 2018	45	46	70	86	97	104	141	252			

Sources: Country authorities; and staff estimates and projections.

1/ Assumes that real GDP growth is at baseline minus one standard deviation divided by the square root of the length of the projection period.

2/ Revenues are defined inclusive of grants.

## THE DSA TECHNICAL TEAM

1.	Joe Ugoala	DMO
2.	Alfred Anukposi	DMO
3.	Elizabeth Kwaghibulah	DMO
4.	Johnson Amadi	DMO
5.	Maraizu Nwankwo	DMO
6.	Funmi Olasoji	DMO
7.	Jummai Sa'id	DMO
8.	Gregory Anowuru	DMO
9.	Bartholomew Aja	DMO
10.	Felix Adeoye	DMO
11.	Chinwe Nwogbo	DMO
12.	Daniel Ajeh	DMO
13.	Omolara Etim-Bassey	DMO
14.	Lukman Popoola	DMO
15.	Nura Adamu U.	DMO
16.	Tunde Lawal	FMBNP
17.	Jonah H. Mshelia	FMBNP
18.	Musa Abdullahi	CBN
19.	Ikenna-Ononugbo, A. A.	CBN
20.	Zainab Sani	CBN
21.	Uzor Okoye	FMF
22.	Samuel Omenka	BOF
23.	Ike Anayo A.	BOF
24.	Umar Ahmed Bajoga	OAGF
25.	Maureen Chinweokwu	NBS

### Technical Adviser

26.	Baba Y. Musa	WAIFEM
-----	--------------	--------