



HOW WOULD RECENT EVENTS AFFECT
YOUR FINANCIAL INVESTMENTS?

FIND ANSWERS ON THE
ARM WEEKLY ECONOMIC
& FINANCIAL COMMENTARY

Weekly Economic & Financial Commentary

...for the week 13th August – 17th August 2018

Global Economy

- ◆ Eurozone Q2 18 GDP trumped analysts' expectation after expanding 0.4% QoQ (Q1 18: +0.3%). The sturdy performance was supported by solid momentum in Germany (region's heavyweight), Netherlands and Latvia. Over in the United Kingdom, headline inflation inched higher by 2.5% YoY in July after holding steady at 2.4% YoY in the prior three consecutive months. July CPI was largely driven by higher transport inflation. Elsewhere, U.S retail sales trumped expectation in July with the Commerce Department reporting a 0.5% MoM increase (June 18 revised: 0.2% MoM). We highlight that the rise in retail sales was supported by tightening labour market with knock-on effect driving higher wages.

Domestic Economy

- ◆ According to data released by the National Bureau of Statistics, Nigeria's inflation slowed further in the month of July, moderating to 11.14% vs 11.23% in the previous month. Amidst favorable base effects, the decline was driven by softening consumer prices in the food and core basket with headline MoM inflation declining 11bps to 1.13% (June: 1.24%). Elsewhere, Q2 18 debt stock released by the DMO revealed that total FG debt stock (domestic & external) moderated 2% QoQ (+13.6% YoY) to ₦18.9 trillion. Elsewhere, we observed a jump in domestic debt service (+26% YoY to ₦297 billion) despite domestic debt stock rising just 1% YoY. We link this to maturities of high yield Treasury Bills issued in 2017. Likewise, external debt service inched higher by 247% YoY to \$202 million reflecting interest payments vis-à-vis the 2027 and 2047 Eurobonds issued last year.

Equities

- ◆ The Nigerian equity market extended losses for the third consecutive week as the index dipped 51 basis points WoW to close at 35266.29pts. The sell pressure was fueled by losses in UBA (-11.64%), Flourmills (-10.57%), Dangote Sugar (-4.52%), Nestle (-3.85%), Zenith (-3.18%) and Guaranty (-2.56%) which largely masked gains in Unilever (+4.76%), FBNH (+2.08%), and Dangote Cement (+2.80%). Analyzing the performance on a sectorial basis, the sectors that closed negative outweighed those that closed positive with the Banking, Food, Insurance, Oil & Gas and the Real Estate sectors closing negative while the Brewers, Cement and Personal Care sectors closed the week positive.

Fixed Income

- ◆ Yields in the fixed income market continued its uptrend following the bearish run at both ends of the curve. Firstly, following foreign sell off at the long end of the curve, secondary market yields ticked higher on most trading days. This in addition to higher stop rates at Wednesdays' Bond Auction (Bond sale: ₦110.1 billion) drove bond yields higher by 49bps WoW to 14.56%. Yields at the short end followed similar pattern with sell pressure exacerbated by CBN's liquidity squeeze on Thursday (OMO sale: ₦153.5), culminating in an 18bps WoW expansion in treasury bill yields to 12.69%.

The week in Review

- ◆ Eurozone Q2 18 GDP trumped analysts' expectation after expanding 0.4% QoQ (Q1 18: +0.3%). The sturdy performance was supported by solid momentum in Germany (region's heavyweight), Netherland and Latvia offsetting benign performance in France and Italy. Over in the United Kingdom, headline inflation inched higher by 2.5% YoY in July after holding steady at 2.4% YoY in the prior three consecutive months.

- ◆ July CPI was largely driven by higher transport inflation and one-off price hike of computer games. Elsewhere, U.S retail sales trumped expectation in July with the Commerce Department reporting a 0.5% MoM increase (June 18 revised: 0.2% MoM). We highlight that the rise in retail sales was supported by tightening labour market with knock-on effect driving higher wages.

Global Equities

Country Index		Level (in \$)		Index Returns (%)		Index Characteristics		Div. Yld (%)
		Current	Change	WoW	YTD	52-Wk	P/E	
				(%)	(%)	(x)	Mkt. Cap (\$'bn)	
US	S&P 500	2,842	0.3	6.3	16.9	20.6		1.9
	NASDAQ	7,782	-0.7	12.7	25.1	56.9	11,838.1	1.0
UK	FTSE ASI	7,559	-1.4	-1.7	2.3	16.8		4.4
France	CAC 40	5,345	-1.3	0.6	3.8	16.5	1,018.4	3.4
Germany	XETRA DAX	12,211	-1.7	-5.5	0.1	14.2		3.3
Japan	NIKKEI 25	22,270	0.0	-2.2	14.4	16.1	5.4	2.0
China	Shanghai Comp	2,669	0.0	-19.3	-18.3	12.9	4,126.2	2.9
Brazil	Ibovespa	75,835	-0.9	-0.7	11.6	17.8	32.2	3.9
India	BSE Sens	37,948	0.2	11.4	19.3	24.9	530.8	1.5
Russia	RTS	558	-1.2	-7.6	5.6	5.6	2.5	6.8
Mexico	S&P/BMV IPC	48,012	-0.8	-2.7	-5.8	21.1		2.3
Turkey	Borsa Istanbul	88,735	-6.5	-23.1	-16.9	7.0	0.3	4.9
Indonesia	JCI Index	5,784	0.0	-9.0	-1.8	19.5	441.9	2.3
Kazakhstan	KASE Index	2,223	-1.3	2.8	20.0	6.4	1.0	N/A N/A
Vietnam	VN Index	969	0.0	-1.6	26.0	17.4	133.5	1.6
South Africa	FTSE/JSE ASI	56,648	-1.8	-4.8	2.2	17.4		3.6
Egypt	EGX 30	15,296	0.0	1.8	16.6	11.6	11.3	5.0
Kenya	NSEASI	175	1.0	2.0	5.1	13.9	24.3	4.5
Morocco	MSCI MX	313	-0.8	-7.1	-7.4	18.9	9.1	3.8
Ghana	GSE Composite	2,867	0.0	11.1	26.1	32.8	4.5	0.9
Tunisia	TunIndex	8,348	0.1	32.9	34.5	21.8	0.8	1.8
BRVM	BRVM	206	-1.0	-15.1	-16.3	24.5	24.9	1.6
Mauritius	SEMDEX	2,245	0.5	1.9	2.2	24.6	9.3	
Nigeria	NGSE ASI	35,266	-0.51	-7.78	-2.89	10.1	34.3	5.0

Global Fixed Income

Country		1-Yr Tenor		WoW (pps)		10-yr Tenor		WoW (pps)		Inflation n (%)	
		Current	Change	Current	Change	Current	Change	Current	Change	Current	Change
US		2.43				2.85		0.2		2.9	
UK		0.71		-0.1		1.23		0.0		2.5	
Euro		-0.25		-3.6		0.87		-1.3		2.1	
Japan		-0.16		0.0		0.08		0.0		0.8	
China		2.81		1.8		3.45		1.5		2.1	
India		7.15		-1.2		7.86		1.4		3.93	
Mexico		8.22		1.1		7.87		-0.9		4.81	
Turkey		30.32		-15.1		20.68		0.0		15.85	
Russia		7.58		2.6		4.31		-0.1		2.5	
Egypt		19.07		3.6		16.00		12.8		13.5	
South Africa		7.93		0.1		9.43		-1.2		4.6	
Kenya		9.98		-0.1		12.91		0.0		4.4	
Ghana		14.50		0.0		19.00		0.0		9.63	
Nigeria		11.22		-0.7		14.86		-3.0		11.1	

Global Commodities

Commodity		This Week		Prior Week		WoW (%)		YTD (%)	
		Current	Change	Current	Change	Current	Change	Current	Change
Brent Crude	\$/bbl	71.6		72.8		-1.6		7.1	
OPEC Crude	\$/bbl	69.5		72.0		-1.6		7.8	
Gasoline	\$/gal	197.8		203.9		-3.0		3.2	
Natural Gas	\$/MBtu	3.0		2.9		0.3		5.9	
Gold	\$/t oz	1177.3		1210.6		-2.7		-9.6	
Sugar	\$/lb	10.2		10.5		-3.6		-33.2	
Wheat	\$/bsh	577.0		569.5		1.3		19.7	
Crude Palm oil	IYR/MT	2238.0		2275.0		0.0			

Global Currencies

Currency		This Week		Prior Week		WoW (%)		YTD (%)	
		Current	Change	Current	Change	Current	Change	Current	Change
Euro (€)		1.1		1.1		0.0		-5.0	
GBP (£)		1.3		1.3		-0.2		-5.8	
JPY (¥)		110.4		110.8		0.4		2.1	
INR (₹)		70.2		68.7		-1.9		-9.0	
CNY (¥)		6.9		6.8		-0.4		-5.4	
MXN (\$)		19.1		18.9		-0.8		3.1	
RUB (p.)		67.5		67.7		0.4		-14.5	
ZAR (R)		67.5		67.7		0.4		-14.5	
EGP (£)		17.9		17.9		-0.2		-0.7	
KES (sh)		100.8		100.5		-0.3		2.3	
GHS (¢)		17.9		17.9		-0.2		-0.7	
XOF (F)		575.3		580.1		0.8		-1.9	
XAF (F)		582.0		579.3		-0.5		-4.1	
NGN (₦)		362.2		361.7		-0.1		-0.6	

Global Indicators for the Week

Indicator		Latest		Prior	
		Current	Change	Current	Change
E.U's Gross Domestic Product (QoQ) - Q2 18		0.4%		0.3%	
U.K's Unemployment rate - Q2 18		4.0%		4.2%	
U.K's Inflation (YoY) - July 2018		2.5%		2.4%	
E.U's Trade Balance (€Bn) - June 2018		16.7		16.9	
Canada's Inflation (YoY) - July 2018		3.0%		2.5%	
E.U's Inflation (YoY) - July 2018		2.1%		2.1%	
U.S Retail Sales (MoM) - July 2018		0.5%		0.2%	

Source: Bloomberg, Reuters, ARM Research

Last updated at 18:21 GMT

The week in Review

- According to data released by the National Bureau of Statistic, Nigeria's inflation slowed further in the month of July, moderating to 11.14% vs 11.23% in the previous month. Amidst favourable base effects, the decline was driven by softening consumer prices in the food and core basket with headline MoM inflation declining 11bps to 1.13% (June: 1.24%).

- Elsewhere, Q2 18 debt stock released by the DMO revealed that total FG debt stock (domestic & external) moderated 2% QoQ (+13.6% YoY) to ₦18.9 trillion. Elsewhere, we observed a jump in domestic debt service (+26% YoY to ₦297 billion) despite domestic debt stock rising just 1% YoY. We link this to maturities of high yield Treasury Bills issued in 2017. Likewise, external debt service inched higher by 247% YoY to \$202 million reflecting interest payments vis-à-vis the 2027 and 2047 Eurobonds issued last year.

Currency	This Week	Prior Week	WoW (%)	YTD (%)	Report released this week (Click Link below for Full report)
External Reserve (\$'bn)	46.42	46.66	-0.52%	19.74%	* Nigerian Inflation - Inflation declines in July, but upside risk abounds
USD/NGN (₦/\$)					
NAFEX	362.6	362.0	-0.17%	-0.63%	
Parallel	358.5	359.0	+0.14%	+0.98%	
Economic Snapshot	Latest (%)	Prior	CHG (pps)	2018 Avg.	
Inflation YoY (June)			CHG (pps)		
Headline	11.14	11.23	-0.1	12.75	
Core	10.18	10.39	-0.2	11.03	
Food	12.85	12.98	-0.1	15.24	
GDP (%) - YoY	Q1 18	Q4 17	FY 17	FY18F	
Real GDP	1.9	2.1	0.8	2.4	
Oil	14.8	11.2	5.5	8.8	News Headline for the week (click news for link)
Agriculture	3.0	4.2	3.4	3.3	* TCN cancels non-performing electricity transmission contracts
Manufacturing	3.4	0.1	-0.2	2.6	* MTN Nigeria signs N200bn loan agreement with 12 banks
Services	0.5	-0.8	-0.8	1.3	* Inflation falls marginally to 11.14%
Labor Data (%) - Q3 17			Latest	Prior	* Investors stake N100bn on FGN bonds
Unemployment Rate			18.8	16.2	* Currency swap will not cover substandard good, says CBN
Underemployment			21.2	21.1	* Nigeria borrows N2.75tn in one year
Capital Importation (\$'mn) - Q1 18	Q1 18	Q4 17	QoQ (%)	YoY (%)	* CBN injects fresh \$210m into forex market
Foreign Portfolio Investment - Equities	701.61	989.2	-29.1%	588	* Nigeria, two others push OPEC oil output higher
Bonds	335.88	309.5	8.5%	N/A	* FG, others got N3.5trn FAAC funds in H1'18
Money	3527.6	2,178.8	61.9%	1567	
Market	246.62	378.4	-34.8%	16.7	* Nigeria's foreign commercial loans rise to \$8.8bn
Foreign Direct Investment					* Fed Govt mulls VAT removal on locally produced LPG
Balance of Payment (\$'mn)	Q1 18	Q4 17	Q3 17	QoQ	
Trade Balance	6,042	5,009	3,032	20.6%	
CA Balance	4,468	3,656	1,974	22.2%	

The week in Review

- The Nigerian equity market extended losses for the third consecutive week as the index dipped 51 basis points WoW to close at 35266.29pts. The sell pressure was fueled by losses in UBA (-11.64%), Flourmills (-10.57%), Dangote Sugar (-4.52%), Nestle (-3.85%), Zenith (-3.18%) and Guaranty (-2.56%) which largely masked gains in Unilever (+4.76%), FBNH (+2.08%), and Dangote Cement (+2.80%).

- Analyzing the performance on a sectorial basis, the sectors that closed negative outweighed those that closed positive with the Banking, Food, Insurance, Oil & Gas and the Real Estate sectors closing negative while the Brewers, Cement and Personal Care sectors closed the week positive.

Index Performance

	Level	Index Returns (%)				
		WoW	MTD	QTD	YTD	1 year
NSE ASI	35266.29	-0.51	-4.73	-7.87	-7.78	-2.89
NSE ASI (\$)	97.29	-0.51	-3.99	-0.08	-0.08	-0.05
Market Cap (₦'bn)	12874.92	-0.51%	-4.01	-0.07	-0.05	0.01
Market Cap (\$'mn)	35517.01	-0.65%	-4.76	-0.07	-0.06	0.00
NSE 30	1589.77	-0.78	-4.53	-8.59	-8.98	-4.62
NSE Premium	2527.30	0.59	-5.30	-7.10	-1.44	6.25
NSE 50	1824.24	-0.69	-4.21	-7.76	-6.45	-1.45
NSE ASEM	809.92	0.00	0.00	-14.71	-25.51	-30.29
NSE Banking	438.14	-3.80	-4.35	-7.96	-7.85	1.47
NSE Insurance	137.87	-3.56	-6.64	-8.36	-1.08	0.36
NSE Consumer	835.80	-1.12	-5.09	-9.91	-14.37	-12.78
NSE Oil & Gas	296.07	-1.47	-6.37	-8.40	-10.47	-3.83
NSE Industrial	1716.66	1.29	-3.59	-14.54	-13.11	-19.98
NSE Lotus	2428.66	0.23	-4.34	-7.54	-5.14	4.80
NSE Pensions	1314.12	-1.66	-5.40	-11.81	-4.76	5.47

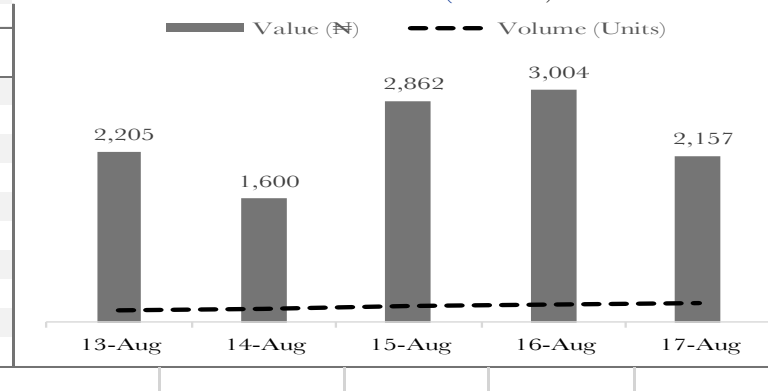
Sector Performance

	Returns (%)		
	WoW	QTD	YTD
Banking	-2.74%	-7.67%	-3.11%
Brewers	0.36%	-10.33%	-22.98%
Cement	2.62%	-5.30%	-5.78%
Personal Care	3.47%	-7.04%	7.39%
Construction	0.00%	-5.67%	-6.72%
Food	-3.92%	-9.31%	-9.18%
Insurance	-1.47%	-4.73%	-2.43%
Oil & Gas	-2.79%	-15.69%	-19.46%
Real Estate	-0.25%	-0.56%	-3.15%

ARM Indices

	WoW	QTD	YTD
Large Cap (Top 10%)	-0.30%	-6.63%	-6.59%
Mid Cap (Mid 30%)	-2.65%	-12.88%	-10.18%
Small Cap (Bottom 60%)	-7.07%	48.53%	-38.11%

Volume and Value Traded (millions)



Top 10 Gainers

Company	This Week	WoW
INTBREW	35.20	10.0%
SOVRENINS	0.26	8.3%
MANSARD	2.55	7.1%
UNILEVER	55.00	4.8%
CUTIX	4.18	4.5%
CUSTODYNS	5.33	3.9%
DANGCEM	220.00	2.8%
LINKASSURE	0.74	2.8%
NIGERINS	0.40	2.6%
11 PLC	180.00	2.3%

Top 10 Losers

Company	This Week	WoW
SECURE	0.23	-20.7%
SKYEBANK	0.48	-18.6%
BERGER	6.55	-18.1%
CONTINENTAL RE	1.40	-17.2%
WAPIC	0.35	-12.5%
UNIONDAC	0.29	-12.1%
LEARNAFRCA	1.12	-11.8%
OANDO	4.90	-11.7%
UBA	8.35	-11.6%
LIVESTOCK	0.61	-11.6%

Source: NSE, Bloomberg, ARM Research

The week in Review

- Yields in the fixed income market continued its uptrend following the bearish run at both ends of the curve. Firstly, following foreign sell off at the long end of the curve, secondary market yields ticked higher on most trading days. This in addition to higher stop rates at Wednesdays' Bond Auction (Bond sale: ₦110.1 billion) drove bond yields higher by 49bps WoW to 14.56%.

- Yields at the short end followed similar pattern with sell pressure exacerbated by CBN's liquidity squeeze on Thursday (OMO sale: ₦153.5), culminating in an 18bps WoW expansion in treasury bill yields to 12.69%.

	This Week	Prior Week	WoW change	Primary Market Auction (Rates)	91 Days	250 Days	364 Days	Issuance (N'billion)	91 Days	250 Days	364 Days
Money Market				OMO				OMO			
Overnight (O/N)	7.33%	9.25%	-1.92%	16-Aug-18	11.05%	12.15%		16-Aug-18	24.68	128.9	0.0
Open Buy Back (OBB)	8.33%	8.42%	-0.09%	09-Aug-18	11.05%	12.15%		09-Aug-18	59.00	304.0	0.0
NIBOR - 1M	12.06%	11.31%	0.75%	02-Aug-18	11.05%	12.15%		26-Jul-18	73.70	275.0	0.0
NIBOR - 3M	12.70%	12.44%	0.26%	26-Jul-18	11.05%	12.15%		19-Jul-18	60.77	435.5	0.0
NIBOR - 6M	14.52%	13.80%	0.72%	19-Jul-18	11.05%	12.15%		13-Jul-18	0.01	315.3	0.0
Treasury Bills				Treasury Bills	91 Day	182 Day	364 Day	Treasury Bills	91 Day	182 Day	364 Day
1-month	11.25%	10.38%	0.87%	16-Aug-18	10.00%	10.40%	11.22%	16-Aug-18	3.4	10.0	20.0
3-month	11.60%	11.54%	0.06%	01-Aug-18	10.00%	10.40%	11.30%	01-Aug-18	5.8	26.6	74.6
6-month	13.25%	12.99%	0.26%	18-Jul-18	10.00%	10.50%	11.49%	18-Jul-18	9.50	33.9	58.9
9-month	13.23%	13.00%	0.23%	04-Jul-18	10.00%	10.30%	11.50%	20-Jun-18	3.4	16.9	13.5
12-month	13.44%	12.86%	0.58%	20-Jun-18	10.00%	10.30%	11.50%	13-Jun-18	9.5	47.7	38.2
FGN Bonds (Local)				FGN Bonds	5 Year	7 Year	10 Year	FGN Bonds	5 Year	7 Year	10 Year
16.00% 29-JUN-2019	13.23%	12.74%	0.49%	15-Aug-18	14.39%	14.60%	14.69%	15-Aug-18	40.2	48.5	21.4
15.54% 13-FEB-2020	14.05%	13.96%	0.09%	27-Jul-18	13.69%	14.00%	14.30%	27-Jul-18	8.8	7.9	21.0
14.50% 15-JUL-2021	14.66%	14.04%	0.62%	29-Jun-18	13.50%	13.80%	13.81%	25-Apr-18	38.3	12.8	39.0
16.39% 27-JAN-2022	14.37%	13.74%	0.63%	23-May-18	13.50%	13.50%	13.55%	23-Mar-18	100.5	89.1	45.1
14.20% 14-MAR-2024	14.63%	13.99%	0.64%	25-Apr-18	12.75%	12.85%	12.89%	23-Feb-18	27.2	0.0	52.4
12.50% 22-JAN-2026	14.83%	14.19%	0.64%	Corporate Bonds			This Week	Prior Week	WoW (%)	Corporate Eurobond	
16.2884% 17-MAR-2027	14.92%	14.50%	0.42%	DUFIL 18.25% 1-SEP-2022	16.22%	15.59%	0.63%	ZENITH 6.25% 22-APR-2019	5.45%	5.32%	0.13%
12.1493% 18-JUL-2034	14.91%	14.45%	0.46%	FCMB 17.25% 8-DEC-2023	15.96%	15.31%	0.65%	DIAMOND 8.75% 21-MAY-2019	9.90%	9.88%	0.02%
16.2499% 18-APR-2037	14.17%	14.17%	0.00%	FIDELITY 16.48% 13-MAY-2022	15.41%	14.77%	0.64%	FBN 8.25% 07-AUG-2021	8.96%	8.98%	-0.02%
FGN Eurobonds				LAPO MFB 17.75% 19-DEC-2022	18.18%	17.54%	0.64%	ECOBANK 8.75% 14-AUG-2021	9.81%	9.79%	0.02%
6.50% 28-Nov-2027	7.64%	7.52%	0.12%	MIXTA 17.00% 16-JAN-2022	15.39%	14.85%	0.54%	ACCESS 10.50% 19-OCT-2021	8.42%	8.41%	0.01%
7.625% 28-Nov-2047	8.61%	8.39%	0.22%	STANBIC 13.25% 30-SEP-2024	15.69%	15.05%	0.64%	ZENITH 7.375% 30-MAY-2022	7.24%	7.18%	0.06%
7.875% 16-FEB-2032	8.22%	8.05%	0.17%	STERLING 16.50% 3-AUG-2023	15.58%	14.93%	0.65%				
5.625% 27-JUN-2022	6.01%	5.70%	0.31%	UBA 16.45% 30-DEC-2021	15.36%	14.75%	0.61%				
				VIATHAN 16.00% 14-DEC-2027	15.72%	15.07%	0.65%				

Source: DMO, FMDQ, Bloomberg, ARM Research

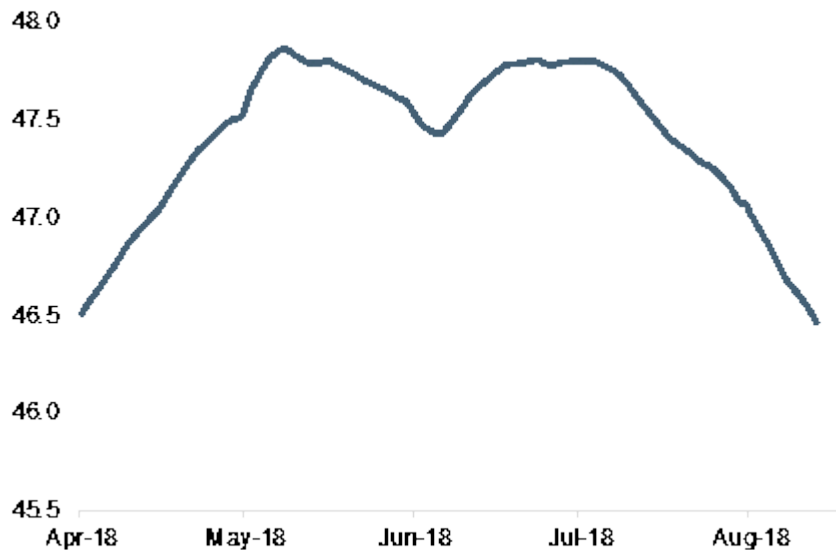
Economic and Financial Calendar for the week 20th August - 24th Aug 2018

	Monday	Tuesday	Wednesday	Thursday	Friday
	20-Aug	21-Aug	22-Aug	23-Aug	24-Aug
Global	Germany's producer price Index - July	Switzerland's Trade Balance - July	Canada's Retail Sales - June	Japan Manufacturing PMI - August**	Germany GDP - Q2
	E.U construction Output - June	New Zealand Retail Sales - Q2	U.S Existing Home Sales - July	U.S compsite PMI - August**	France consumer confidence - August
	US 3 and 6-month bill Auction	Canada's Wholesale sales - June	Japan All industry activity Index - June	Japan's Inflation - July	
		U.K Public Sector net borrowing - July		Germany's composite PMI - August**	
				Newzealand Trade Balance - July	
				France compsite PMI - August**	
Domestic		FAAC Disbursement - July	Capital Importation - Q2		

** means Preliminary Estimate

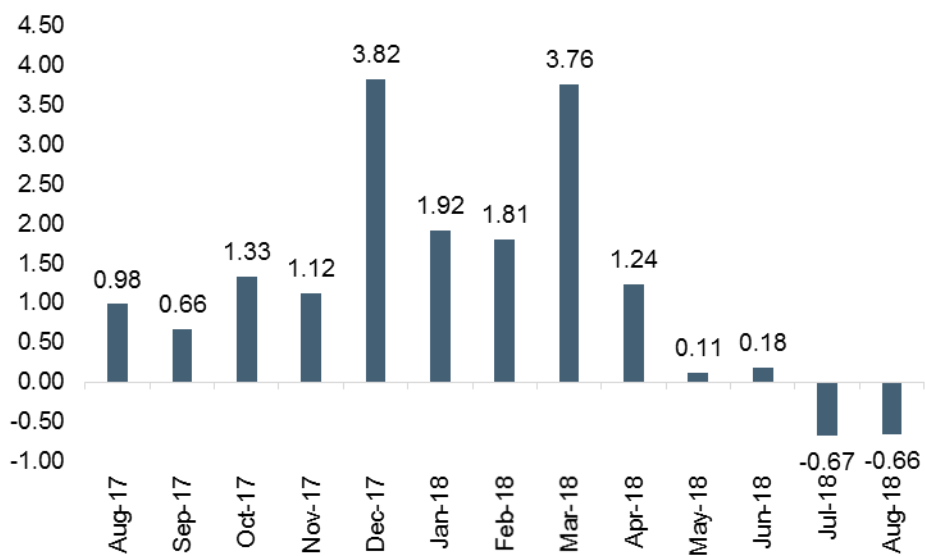
Nigeria's Gross Reserve Position

Table 1: Trend in Nigeria gross external reserve (\$'Billion)



Source: Bloomberg, ARM Research

Table 2: Monthly Accretion/Reserve drawdown (\$'Billion)



Source: Bloomberg, ARM Research



Thank You



ARM Securities

Research	234 (1) 2701653	research@armsecurities.com.ng
Institutional Sales & Trading	234 (1) 448 8833	trading@armsecurities.com.ng
Customer Service	234 (1) 4488282	customerservice@armsecurities.com.ng

Copyright © 2018 ARM Securities Limited (“ARM”).

All rights reserved. Unauthorised use, reproduction, distribution, or disclosure of this document is strictly prohibited.

This material has been issued by ARM Securities Limited, a member of the Asset & Resource Management (“ARM”) Group, and a Company regulated by the Nigerian Securities & Exchange Commission. The analyst(s) primarily responsible for preparing this research report, in whole or in part, certifies that with respect to each security or issuer covered; all the views expressed accurately reflect his/her personal views about the subject securities and issuers and no part of his/her compensation was, is, or will be, directly or indirectly, related to the inclusion of specific recommendations or views in the report.

This research report is based on information from sources that ARM and its analysts believe to be reliable. Neither ARM nor any of its research analysts, nor any member of the ARM Group, gives any representation or warranty, express or implied, or undertaking of any kind or assumes responsibility or liability of any kind with respect to the accuracy or completeness of the information set out in this report or any third party’s use (or the results of such use) of such information. This report is provided solely for informational purposes and is not to be construed as providing advice, recommendations, or endorsements of any kind whatsoever. The investments and strategies discussed here may not be suitable for all investors; counsel of investment advisor should be obtained with regards to such investments and or strategies. This research report is not a replacement for advice from an accountant, lawyer, personal finance advisor or other category of investment advisor. The investments discussed in this report may oscillate in price or value. Opinions and information provided are made as of the date of the report issue and are subject to change without notice. This research report is not intended as an offer or solicitation for the purchase or sale of any financial instrument. Reference herein to any specific security or financial instrument does not necessarily constitute or imply its endorsement or recommendation by ARM, its directors, officers, employees, or designated agents. Members of ARM may act as broker, advisor, or lender, or make a market in any investments or issuers referenced in this report. Further information on any of the securities discussed herein may be obtained upon request to ARM. By accepting this document, you agree to be bound by the foregoing limitations.