

Global Macro Watch

Known Unknowns Aug 7 – Aug 11

US CPI

July CPI report will likely be another soft report and point to moderation. Headline CPI likely increased by 0.2% m/m resulting in the y/y rate increasing two-tenths to 3.2% as base effects are less favorable than last month. For core inflation, we forecast a strong 0.1% m/m and two-tenths decline in the y/y rate to 4.6%, lowest since Sept 2021.

UK GDP and Germany CPI

We expect 2Q UK GDP to come in at 0.1% q/q with the y/y rising a tenth to 0.3%. Consensus is expecting a flat q/q print with consumption coming in flat and government spending rising to 1.0% from -1.8%. We expect a confirmation of the preliminary release in the Germany CPI print with m/m at 0.3% and the y/y at 6.2%. We expect the EU harmonized m/m and y/y print to also remain steady at 0.5% and 6.5%, respectively.

BoJ Summary of Opinions

The minutes of the July monetary policy meeting will be published by the Bank of Japan this coming week.

The week ahead in Emerging Markets

There are monetary policy meetings in India, Mexico, Peru, Romania and Serbia. CPI inflation in China, Brazil and Mexico.

In other data

US: Fed members speaking, CPI, PPI, trade balance, initial jobless claims, monthly budget statement and U. Michigan sentiment

Eurozone: in Germany we get industrial production, final print of CPI and current account balance

UK: GDP, industrial & manufacturing production, construction output, house price balance.

Japan: BoJ summary of opinions, PPI and current account balance

Australia: RBA's Schwarz speaking **New Zealand:** quiet week ahead

Canada: quiet week ahead

Switzerland: sight deposits, foreign currency reserves

Scandies: housing prices, GDP partials in Sweden & Norway CPI, 2Q Bank Lending Survey

For details see: <u>US Economic Weekly</u>, <u>Asia Economic Weekly</u>, <u>Europe Economic Weekly</u>

The Global Economic Calendar has become a part of the Known Unknowns.

Trading ideas and investment strategies discussed herein may give rise to significant risk and are not suitable for all investors. Investors should have experience in relevant markets and the financial resources to absorb any losses arising from applying these ideas or strategies.

BofA Securities does and seeks to do business with issuers covered in its research reports. As a result, investors should be aware that the firm may have a conflict of interest that could affect the objectivity of this report. Investors should consider this report as only a single factor in making their investment decision.

Refer to important disclosures on page 13 to 15.

Timestamp: 06 August 2023 04:30AM EDT

06 August 2023

Economics Rates & FX Global

Known Unknowns 2 Known Unknowns (EM) 3 Sunday 3 Monday 3 Tuesday 3 Wednesday 3 Thursday 3 Friday 3 Quarterly Risk Calendar – August 3 Quarterly Risk Calendar – September 3 Quarterly Risk Calendar – October 3 Research Analysts 3

Shruti Mishra

US and Global Economist BofAS +1 646 855 1040 smishra44@bofa.com

Michalis Rousakis FX Strategist MLI (UK)

+44 20 7995 0336 michalis.rousakis@bofa.com

Pedro Diaz Caribbean Economist BofAS +1 646 855 2575 pdiaz2@bofa.com

Global Economics Rates & FX

See Team Page for List of Analysts

Reserve Bank of Australia = RBA

Bank of England = BOE

European Central Bank = ECB

Known Unknowns

Exhibit 1: Global weekly calendar

There are no central bank meetings this week. BoJ minutes only. Note dates are according to London time

Speakers	(none)	Economic Data	Meetings / Strikes / Votes
- Speakers	(Economic Butu	meetings, strikes, rotes
CD-			

Details Deta		CBs									
Mon Aug 7	Date	LDN	NY	HK	Country	Event	Period	BofAe	Cons.	Prev.	Details
Mon Aug 7											
Mon Aug 7		00:50	19:50		1	BOJ Summary of Opinions	Jul				Minutes for the July monetary policy meeting
1900 0.400 1500		07:00						0.2%	-0.50%		
13:30 08:30 20:30 U.S Field Select speech	Mon Aug 7						·				
13:30 08:30 20:30 U.S Fofs Somman speech							Aug-04			490.1b	
17.00											
0.005											
		17:00	12:00	00:00	UK	BOE's Huw Pill speech					Cost of living and current economic conditions
Orange		00:05	19:05	07:05	AU	RBA's Schwartz speech					On "Australian financial markets and climate change"
		00:50	19:50	07:50	JN	BoP Current Account Balance	Jun		¥1452.5b	¥1862.4b	
Pri Aug 10 19.00 14.00 6E CPI EX Platinistric Survey		07:00	02:00	14:00	GE	CPI m/m (F)	Jul	0.30%	0.30%	0.30%	We expect a confirmation of the preliminary releases
Post		07:00	02:00	14:00	GE	CPI y/y (F)	Jul	6.20%	6.20%	6.20%	
13:15 08:15 20:15 US Feds Harker speech Speaks on economic outlook in Philadelphia		07:00	02:00	14:00	GE	CPI EU Harmonized m/m (F)	Jul	0.50%	0.50%	0.50%	//y to remain steady at 6.5%
13:30		09:00	04:00	16:00	EC	ECB Consumer Expectations Survey					Latest results for June 2023
Ned Aug 9 00:50 19:50 07:50 JN PPI m/m Aug-04 0.2% 0.2% 0.2% Consensus expects y/y to decline from 4.1% to 3.5%		13:15	08:15	20:15	US	Fed's Harker speech					Speaks on economic outlook in Philadelphia
Wed Aug 9 00.50 19.50 07.50 JN PPI m/m											n line with the surprising narrowing in the advance
1.50		13:30	08:30	20:30	US	Trade Balance	Jun	-\$64.6b	-\$65.0b	-\$69.0b	goods trade report
1.50											
1.50	W-1 A 0										
05:00 00:00 12:00 SW Swedish Housing Price Data Headline m/m likely rises 2/10 to 0.8%, CPI 14:00 NO CPI y/y Jul 6.4% 6.40% 0.9% and 7.0% 0.9% and 7.0% and 7.0% 0.9% and 7.0% and 7.	Wed Aug 9	00:50	19:50	07:50	JN	PPI m/m	Aug-04	0.2%		-0.2%	Consensus expects y/y to decline from 4.1% to 3.5%
05:00 00:00 12:00 SW Swedish Housing Price Data Headline m/m likely rises 2/10 to 0.8%, CPI 14:00 NO CPI y/y Jul 6.4% 6.40% 0.9% and 7.0% 0.9% and 7.0% and 7.0% 0.9% and 7.0% and 7.											
05:00 00:00 12:00 SW Swedish Housing Price Data Headline m/m likely rises 2/10 to 0.8%, CPI 14:00 NO CPI y/y Jul 6.4% 6.40% 0.9% and 7.0% 0.9% and 7.0% and 7.0% 0.9% and 7.0% and 7.		00.01	10.01	07.01	IIV	DICS House Price Palance	lul	EE 004		1604	
1.0							Jui	-33.0%		-4070	
No. Oz.00		03.00	00.00	12.00	311	Swedish Housing Trice Data					Headline m/m likely rises 2/10th to 0.8% CPI
17:00 02:00 14:00 NO CPI y/y Jul 6.4% 6.4% 6.40% 0.9% and 7.0%											-
09:00 04:00 16:00 EC EGB Publishes Economic Bulletin 20 results on changes in credit demand/supply and banks' loan terms and conditions 13:30 08:30 20:30 US Initial Jobies Claims Aug-05 236k 227k 227k 236k 227k 227k 236k 227k 236k 227k 236k 227k 236k 227k 236k 236k 227k 236k 236k 237k 236k 237k 236k 237k 236k 237k 236k 237k		07:00	02:00	14:00	NO	CPI v/v	Jul	6.4%		6.40%	1 2
13:30				16:00			·				
13:30		09:00	04:00	16:00	NO	Norges Bank 2Q Survey of Bank Lending		2Q results	on changes	in credit der	nand/supply and banks' loan terms and conditions
13:30		13:30	08:30	20:30	US	Initial Jobless Claims	Aug-05				
13:30 08:30 20:30 US CPI Core m/m Jul 0.1% 0.2% 0.2% v/y declines to 4.6%, lowest since Sept 2021	Thu Aug 10	13:30	08:30	20:30	US	CPI m/m	Jul	0.2%	0.20%	0.20%	As base effects are less favorable than last month.
19:00 14:00 02:00 US Monthly Budget Statement Jul -\$50.0bn -\$227.8b Supreme Court decision on cancellation of student oan debt will be recorded as outlay savings		13:30	08:30	20:30	US	CPI y/y	Jul	3.2%	3.30%	3.00%	
19:00 14:00 02:00 US Monthly Budget Statement Jul -\$50.0bn -\$227.8b can debt will be recorded as outlay savings		13:30	08:30	20:30	US	CPI Core m/m	Jul	0.1%	0.2%	0.2%	y/y declines to 4.6%, lowest since Sept 2021
20:00 15:00 03:00 US Fed's Bostic speech Remarks at a Fed webinar on "Shifting perspectives and expectations on employment"											Supreme Court decision on cancellation of student
21:15		19:00	14:00	02:00	US	Monthly Budget Statement	Jul				, , , , , , , , , , , , , , , , , , ,
Fri Aug 11 Fri Aug 11 O7:00 02:00 14:00 UK Manufacturing Production m/m Jun 0.5% 0.2% -0.20% We expect the y/y to rise from -2.3% to -1.3% 0.7:00 02:00 14:00 UK Manufacturing Production m/m Jun 0.5% 0.2% -0.20% We expect the y/y to rise from -2.3% to -1.3% 0.7:00 02:00 14:00 UK Manufacturing Production m/m Jun 0.5% 0.2% -0.20% We expect the y/y to rise to 0.6% from -1.2% 0.7:00 02:00 14:00 UK Construction Output m/m Jun 0.0% 0.0% -0.20% We expect the y/y to rise to 0.6% from -1.2% 0.7:00 02:00 14:00 UK Trade Balance Jun -£5.4bn -£3.5bn -£6.6bn Visible trade balance likely at -£17.6bn from -£18.7bn Consensus expects consumption to come in flat and government spending to increase to 1.0% from -1.8% 0.7:00 02:00 14:00 UK GDP y/y (P) 2Q 0.3% 0.20%		20:00	15:00	03:00	US	Fed's Bostic speech					
SZ Sovereign Rating to be reviewed by S&P		21:15	16:15	04:15	US	Fed's Harker speech		Remarks at	a Fed webin	ar on "Shift	ing perspectives and expectations on employment
SZ Sovereign Rating to be reviewed by S&P											
SZ Sovereign Rating to be reviewed by S&P					GE	Current Account Balance	Jun			8.9b	
Pri Aug 11					SZ						
Fri Aug 11		07:00	02:00	14:00	UK	Monthly GDP (m/m)	Jun	0.3%	0.20%	-0.10%	
Fri Aug 11		07:00	02:00	14:00	UK	Industrial Production m/m	Jun	-0.1%	0.20%	-0.60%	We expect the y/y to rise from -2.3% to -1.3%
07:00 02:00 14:00 UK Trade Balance Jun -£5.4bn -£3.5bn -£6.6bn Visible trade balance likely at -£17.6bn from -£18.7bn 07:00 02:00 14:00 UK GDP q/q (P) 2Q 0.1% 0.00% 0.10% consensus expects consumption to come in flat and government spending to increase to 1.0% from -1.8% 07:00 02:00 14:00 UK GDP y/y (P) 2Q 0.3% 0.20% 0.20% 07:00 02:00 14:00 UK Total Business Investment q/q (P) 2Q -0.90% 3.30% Headline rise reflects higher energy prices. We expect core and core-core to rise to 0.2% and 0.3%		07:00	02:00	14:00	UK	Manufacturing Production m/m	Jun	0.5%	0.2%	-0.20%	We expect the y/y to rise to 0.6% from -1.2%
07:00 02:00 14:00 UK GDP q/q (P) 2Q 0.1% 0.00% 0.10% consensus expects consumption to come in flat and government spending to increase to 1.0% from -1.8% 07:00 02:00 14:00 UK GDP y/y (P) 2Q 0.3% 0.20% 0.20% 07:00 02:00 14:00 UK Total Business Investment q/q (P) 2Q -0.90% 3.30% 13:30 08:30 20:30 US PPI Final Demand m/m Jul 0.2% 0.20% 0.10% beadline rise reflects higher energy prices. We expect consumption to come in flat and government spending to increase to 1.0% from -1.8% 07:00 02:00 14:00 UK Total Business Investment q/q (P) 2Q -0.90% 3.30% -0.20%	Fri Aug 11	07:00	02:00	14:00	UK	Construction Output m/m	Jun	0.0%	0.0%	-0.20%	We expect the y/y to surge to 2.9% from0.2%
07:00 02:00 14:00 UK GDP q/q (P) 2Q 0.1% 0.00% 0.10% government spending to increase to 1.0% from -1.8% 07:00 02:00 14:00 UK GDP y/y (P) 2Q 0.3% 0.20% 0.20% 07:00 02:00 14:00 UK Total Business Investment q/q (P) 2Q -0.90% 3.30% Headline rise reflects higher energy prices. We expect ore and core-core to rise to 0.2% and 0.3%		07:00	02:00	14:00	UK	Trade Balance	Jun	-£5.4bn	-£3.5bn	-£6.6bn	
07:00 02:00 14:00 UK GDP y/y (P) 2Q 0.3% 0.20% 0.20% 07:00 02:00 14:00 UK Total Business Investment q/q (P) 2Q -0.90% 3.30% 13:30 08:30 20:30 US PPI Final Demand m/m Jul 0.2% 0.20% 0.10% Headline rise reflects higher energy prices. We expect core and core-core to rise to 0.2% and 0.3%		07:00	02:00	14:00	IIK	GDP o/o (P)	20	0.1%	0.00%	0.10%	
07:00 02:00 14:00 UK Total Business Investment q/q (P) 2Q -0.90% 3.30% Headline rise reflects higher energy prices. We expect 13:30 08:30 20:30 US PPI Final Demand m/m Jul 0.2% 0.20% 0.10% Great and core-core to rise to 0.2% and 0.3%											government spending to increase to 1.0% from -1.8%
13:30 08:30 US PPI Final Demand m/m Jul 0.2% 0.20% Headline rise reflects higher energy prices. We expect core and core-core to rise to 0.2% and 0.3%								0.570			
13:30 08:30 20:30 US PPI Final Demand m/m Jul 0.2% 0.20% 0.10% core and core-core to rise to 0.2% and 0.3%		07.00	02.00	1 7.00	- OK	roun publicas investment y q (F)	_ د ر		-0.5070	J.JU70	Headline rise reflects higher energy prices. We expect
15:00 10:00 22:00 US U. of Mich. Sentiment (P) Aug 73.0 71 71.6 Easing inflation expectations, strong financial markets			08:30		1		Jul				
		15:00	10:00	22:00	US	U. of Mich. Sentiment (P)	Aug	73.0	71	71.6	Easing inflation expectations, strong financial markets

Source: BofA Global Research, Bloomberg. Forecasts as of Aug 4. Consensus forecasts are Bloomberg forecasts.





Known Unknowns (EM)

Exhibit 2: The week ahead in Emerging Markets
There are monetary policy meetings in India, Mexico, Peru, Romania and Serbia. CPI inflation in China, Brazil and Mexico.

	Speakers	(none)		Economic data	_	
	CBs			Meetings		
Date	London	NY	Hong Kong	Country	Event	Expectations
6-11 Aug	-		-	China	Exports YoY	
	-		-	China	Aggregate Financing CNY	
	-		-	China	New Yuan Loans CNY	
7 Aug	5:00	0:00	13:00	Indonesia	GDP YoY	We see 2Q GDP at 5% yoy, unchanged from 1Q. Domestic demand should remain the key driver, with private consumption holding steady, and capex growth recovering slightly. On the other hand, exports contribution to GDP growth should decline, on the back of narrower goods balance.
	12:00	7:00	20:00	Brazil	FGV Inflation IGP-DI MoM	We forecast IGP-DI to register a -0.45% mom change in July (vs -1.45% mom in June), supported by lower wholesale prices. Commodity prices should continue to be the main deflationary pressure, though fading. The reinstatement of federal taxes on fuels should add pressure to the upside. If our forecast is confirmed, IGP-DI should decelerate further to -7.51% yoy (vs -7.44% yoy previously).
	13:00	8:00	21:00	Mexico	Consumer Confidence	We expect consumer confidence to go up as labor market remains tight, wage continue increasing and inflation keeps its downward trend.
	-	-	-	Romania	NBR rates decision	
8 Aug	9:00	4:00	17:00	Taiwan	CPI YoY	CPI inflation likely rose to 2.0% yoy in July from 1.75% in June, mainly driven by a notable sequential increase in vegetable prices. Meanwhile, core CPI inflation could remain sticky on strong services demand.
	12:00	7:00	20:00	Brazil	Central Bank Meeting Minutes	After cutting the Selic Rate to 13.25% on its August meeting in a split decision, the Monetary Policy Committee (COPOM) signaled that will maintain the pace of cuts ahead Our base case continues to be the maintenance of 50bp cut per meeting to the selic rate, reaching 11.75% YE23 and 9.50% YE24
	2:30	21:30	10:30	China	CPI YoY	
9 Aug	13:00	8:00	21:00	Brazil	Retail Sales Broad MoM	A better print will come from Broad Retail Sales, as it should increase 0.6% in the month (vs -1.1% momsa), due to higher vehicle sales in the month (pushed by the government incentive). In yoy terms, it should go up by 6.5% (vs 3.0% yoy).
	13:00	8:00	21:00	Mexico	CPI MoM	We expect headline inflation at 0.49% mom in July.
10 Aug	5:30	0:30	13:30	India	RBI Cash Reserve Ratio	Retain CRR
	5:30	0:30	13:30	India	RBI Repurchase Rate	Keep repo rate unchanged with room to hike later
	8:00	3:00	16:00	Turkey	Industrial production (yoy)	
	11:00	6:00	19:00	Serbia	Repurchase Rate	Lack of forward guidance in the previous press release seems to suggest reluctance to hike. With inflation on a steady downward track this should allow NBS to keep rates on hold for a time being
	12:00	7:00	20:00	South Africa	Manufacturing production (yoy)	
	13:00	8:00	21:00	Brazil	IBGE Services Volume MoM SA	We expect services volume to increase 0.6% momsa in June (vs 0.9% momsa in May). In yoy terms, the volume likely increased by 4.3% (from 4.7%). Families continue to favor consuming services, rather than purchasing goods. In June, that picture will be evident again, with stability in industrial production, contraction in sales and increase in services.
	20:00	15:00	4:00	Mexico	Overnight Rate	We expect Banxico to keep the overnight rate unchanged at 11.25% on August 10. Both headline and core inflation are decelerating, but services inflation remains stuck around 5.5%. According to a board member, the overnight should remain at its current level for an extended period and a new hike can't be discarded. We expect Banxico to remain on hold for the rest of the year, although risks are skewed to the upside as GDP maintains the momentum and domstic inflation still high.
11 Aug	0:00	19:00	8:00	Peru	Reference Rate	We forecast the BCRP to keep the monetary policy rate unchanged at 7.75% on August 10
	13:00	8:00	21:00	Brazil	IBGE Inflation IPCA MoM	We forecast IPCA inflation at -0.01% mom in July (vs -0.08% mom in June). The print should be influenced by low commodity prices and bonuses in Itaipu plant. In yoy terms, IPCA should accelerate to 3.85% (vs 3.16% yoy previously).
	13:00	8:00	21:00	Mexico	Industrial Production NSA YoY	We expect industrial production to increase 3.9% yoy in June.
	13:00	8:00	21:00	Brazil	Economic Activity YoY	For June's IBC-BR economic activity, we believe that activity grew 0.4% momsa, not enough to offset the 2.0% drop recorded in May. In yoy prints, we expect economic activity to have increased 1.6% yoy (from 2.1% yoy previously), with a slowdown expected ahead.

Source: BofA Global Research, Bloomberg



Sunday Aug 6-11

7 140	• • •					
NYT	Country	Data/Event	For	BofAe	Cons.†	Previous Comments
21:30	Australia	ANZ-Indeed Job Advertisements (mom)	Jul			-2.5%
23:30	Thailand	CPI YoY	Jul		0.6%	0.23%
0:00	Kazakhstan	PPI (yoy)	Jul		n.a.	-6.50%
	Mexico	Formal Job Creation Total	Jul			24.4k
	Costa Rica	Unemployment Rate	2Q			10.60%
	Dominican	Gross Reserves	Jul			\$16202.9
	Republic					m
	Mexico	Nominal Wages	Jul			7.30%
	Ecuador	Trade Balance	Jun			206.1m
	Guatemala	Guatemala Remittances YoY	Jul			11.70%
	Dominican	CPI MoM	Jul			0.22%
	Republic					
	Dominican	CPI YoY	Jul			4.00%
	Republic					
	Guatemala	Trade Balance	Jun			-\$1489m
	China	Exports YoY	Jul		-12.6%	-12.40%
	China	Aggregate Financing CNY	Jul		1120.0b	4224.1b
	China	New Yuan Loans CNY	Jul		750.0b	3049.5b

Source: BofA Global Research, Bloomberg

Monday

Aug	7						
NYT	Country	Data/Event	For	BofAe	Cons.†	Previous	Comments
0:00	Indonesia	GDP YoY	2Q	5.0%	5.0%	5.03%	We see 2Q GDP at 5% yoy, unchanged from 1Q. Domestic demand should remain the key driver, with private consumption holding steady, and capex growth recovering slightly. On the other hand, exports contribution to GDP growth should decline, on the back of narrower goods balance.
2:00	Germany	Industrial Production (sa, mom)	Jun	0.2%		-0.2%	
2:00	Germany	Industrial Production (wda, yoy)	Jun	n.a.		0.7%	
3:00	Czech Rep.	Industrial production (yoy)	Jun	n.a.	-0.2%	-1.60%	
4:30	Euro area	Sentix Investor Confidence	Aug	n.a.		-22.5	
7:00	Brazil	FGV Inflation IGP-DI MoM	Jul	-0.45%	-0.35%	-1.45%	We forecast IGP-DI to register a -0.45% mom change in July (vs - 1.45% mom in June), supported by lower wholesale prices. Commodity prices should continue to be the main deflationary pressure, though fading. The reinstatement of federal taxes on fuels should add pressure to the upside. If our forecast is confirmed, IGP-D should decelerate further to -7.51% yoy (vs -7.44% yoy previously).
7:00	Brazil	FGV Inflation IGP-DI YoY	Jul	-7.51%	-7.42%	-7.44%	
8:00	Mexico	Consumer Confidence	Jul			45.2	We expect consumer confidence to go up as labor market remains tight, wage continue increasing and inflation keeps its downward trend.
8:30	Chile	Trade Balance	Jul			\$1574m	
8:30	Chile	Exports Total	Jul			\$7939m	
8:30	Chile	Imports Total	Jul			\$6366m	
8:30	Chile	Copper Exports	Jul			\$3883m	
8:30	Chile	International Reserves	Jul			\$39497m	
9:00	Chile	Nominal Wage YoY	Jun			10.10%	
19:01	UK	BRC Sales Like-For-Like (yoy)	Jul	n.a.		4.2%	
19:05	Australia	RBA's Schwartz Speech					
20:30	Australia	Westpac Consumer Conf SA (mom)	Aug			2.7%	
20:30	Australia	Westpac Consumer Conf Index	Aug			81.3	
21:00	Philippines	Exports YoY	Jun			1.90%	
21:30	Australia	NAB Business Confidence	Jul			0.0	
21:30	Australia	NAB Business Conditions	Jul			9.0	
-	Ukraine	Central bank's minutes	-		-	-	
-	Romania	NBR rates decision	-	7.00%	n.a.	7.00%	
	Guatemala	CPI MoM	Jul			0.30%	
	Ecuador	International Reserves	Jul			\$6967m	



NYT	Country	Data/Event	For	BofAe	Cons.†	Previous Comments
	Guatemala	CPI YoY	Jul			4.93%
-	Mexico	Banamex Survey of Economists				Headline will likely be revised downwards as headline inflation has showed a downward trend. However, we expect no big changes in core inflation expectations, as services inflation depicts persistence. Growth expectations for 2023 will likely be revised upwards given the upside surprise of the 2Q GDP growth print, but growth expectations for 2024 would be revised downwards as the US economy decelerates. We expect analysts to agree that Banxico will remain on hold for the August 10 meeting.
	El Salvador	International Reserves	Jul			2580.1m

Aug	8						
NYT	Country	Data/Event	For	BofAe	Cons.†	Previous	S Comments
0:00	Malaysia	Industrial Production YoY	Jun			4.70%	
2:00	Germany	CPI (mom, F)	Jul	0.3%		0.3%	
2:00	Germany	CPI (yoy, F)	Jul	6.2%		6.2%	
2:00	Germany	CPI EU Harmonized (mom, F)	Jul	0.5%		0.5%	
2:00	Germany	CPI EU Harmonized (yoy, F)	Jul	6.5%		6.5%	
2:30	Australia	Foreign Reserves	Jul			A\$89.4b	
2:30	Hungary	CPI (yoy)	Jul	18.50%	n.a.	20.10%	
2:30	Hungary	Trade balance (EURmn)	Jun P	n.a.	n.a.	1129mn	
4:00	Taiwan	CPI YoY	Jul	2.0%		1.75%	CPI inflation likely rose to 2.0% yoy in July from 1.75% in June,
							mainly driven by a notable sequential increase in vegetable prices. Meanwhile, core CPI inflation could remain sticky on strong services demand.
4:00	Taiwan	Exports YoY	Jul	-23.0%		-23.40%	We expect exports to remain in deep contraction in July (-23.0% yoy, vs23.4% in June), as external demand for both tech and non-tech products stayed sluggish.
5:00	Greece	CPI EU Harmonised (yoy)	Jul	2.8%		2.8%	
5:00	Greece	CPI (yoy)	Jul	n.a.		1.8%	
5:00	Hungary	Budget balance ytd (HUFbn)	Jul	n.a.	n.a.	-2896bn	
6:00	US	NFIB Small Business Optimism	Jul	_	90.5	91.0	
7:00		Central Bank Meeting Minutes	- -	_		-	After cutting the Selic Rate to 13.25% on its August meeting in a split decision, the Monetary Policy Committee (COPOM) signaled that will maintain the pace of cuts ahead. A decline in BCB inflation expectations, the benign inflation and underlying measures momentum and lower fiscal uncertainty should be highlighted, whik the communication tries to suppress expectations for faster pace of easing. We think that an acceleration to the pace could only happen in case of a deflationary surprise and the complete re-anchoring of inflation expectations. Our base case continues to be the maintenance of 50bp cut per meeting to the selic rate, reaching 11.75% YE23 and 9.50% YE24
	Chile	CPI MoM	Jul		0.30%	-0.20%	
	Chile	CPI YoY	Jul		6.40%	7.60%	
	Chile	CPI Ex Volatile Items MoM	Jul			0.00%	
	Chile	CPI Ex Volatile Items YoY	Jul			9.10%	
8:30		Trade Balance	Jun	-\$64.6b	-\$65.0b	-\$69.0b	
10:00		Wholesale Inventories	Jun F		-0.3%	-0.3%	
_11:00	Mexico	International Reserves Weekly	4-Aug			\$204099m	1
	New Zealand	Card Spending Retail (mom)	Jul			1.0%	
	New Zealand	Card Spending Total (mom)	Jul			1.3%	
19:00	Colombia	CPI YoY	Jul		11.58%	12.13%	
19:00	Colombia	CPI Core YoY	Jul			11.62%	
19:00	Colombia	CPI MoM	Jul		0.31%	0.30%	
19:00	Colombia	CPI Core MoM	Jul			0.50%	
21:30	China	CPI YoY	Jul		-0.5%	0.00%	
23:00	New Zealand	2Yr Inflation Expectation	, 3Q			2.8%	
	Costa Rica	CPI YoY	Jul			-1.04%	
	Costa Rica	CPI MoM	Jul			-0.16%	



Wednesday

Aug	9						
NYT	Country	Data/Event	For	BotAe	Cons.†	Previous	s Comments
7:00	US	MBA Mortgage Applications	Aug 4	_	-	-3.0%	
8:00	Hungary	Central bank's minutes	-	-	-	-	
8:00	Brazil	Retail Sales YoY	Jun	0.70%		-1.00%	We expect Core Retail Sales to decline 0.3% momsa in June (vs - 1.0% momsa in May). In yoy terms, we expect it to grow 0.7% (from -1.0% yoy).
8:00	Brazil	Retail Sales MoM	Jun	-0.30%		-1.00%	
8:00	Brazil	Retail Sales Broad MoM	Jun	0.60%		-1.10%	A better print will come from Broad Retail Sales, as it should increase 0.6% in the month (vs -1.1% momsa), due to higher vehicle sales in the month (pushed by the government incentive). In yoy terms, it should go up by 6.5% (vs 3.0% yoy).
8:00	Brazil	Retail Sales Broad YoY	Jun	6.50%		3.00%	
8:00	Mexico	CPI MoM	Jul	0.49%		0.10%	We expect headline inflation at 0.49% mom in July.
8:00	Mexico	CPI Core MoM	Jul	0.42%		0.30%	We expect core inflation at 0.42% mom in July.
8:00	Mexico	CPI YoY	Jul	4.79%		5.06%	We expect annual headline inflation at 4.79% yoy in July.
8:00	Mexico	CPI Core YoY	Jul	6.67%		6.89%	We expect core inflation at 6.67% mom in July.
8:00	Mexico	Bi-Weekly CPI	31-Jul	0.19%		0.29%	We expect bi-weekly inflation at 0.19% in 2H Jul mostly driven by fruits and vegetables and other services excluding housing and education. On the other hand, we expect livestock and energy prices to fall.
8:00	Mexico	Bi-Weekly Core CPI	31-Jul	0.14%		0.24%	We expect bi-weekly core inflation at 0.14% in 2H Jul mostly driven by other services excluding housing and education.
8:00	Mexico	Bi-Weekly CPI YoY	31-Jul	4.77%		4.79%	We expect annual bi-weekly inflation at 4.77%% yoy in 2H Jul.
8:00	Mexico	Bi-Weekly Core CPI YoY	31-Jul	6.59%		6.76%	We expect Bi-weekly annual core inflation at 6.59% yoy.
8:30	Ukraine	CPI (yoy)	Jul		n.a.	12.80%	
15:00	Argentina	Industrial Production YoY	Jun			1.10%	
15:00	Argentina	Construction Activity YoY	Jun			-2.90%	
19:01	UK	RICS House Price Balance	Jul	-55.0%		-46.0%	
21:00	Australia	Consumer Inflation Expectation	Aug			5.2%	
22:00	Philippines	GDP YoY	2Q	5.8%	6.0%	6.40%	
0:00	New Zealand	REINZ House Sales (yoy)	Jul			14.6%	
	Colombia	Consumer Confidence Index	Jul			-14.1	

Source: BofA Global Research, Bloomberg

Thursday

Aug	10	-					
NYT	Country	Data/Event	For	BofAe	Cons.†	Previou	s Comments
0:30	India	RBI Cash Reserve Ratio	10-Aug	4.50%	4.5%	4.50%	Retain CRR
0:30	India	RBI Repurchase Rate	10-Aug	6.50%	6.5%	6.50%	Keep repo rate unchanged with room to hike later
2:00	Norway	CPI (mom)	Jul	0.8%		0.6%	
2:00	Norway	CPI (yoy)	Jul	6.4%		6.4%	
2:00	Norway	CPI underlying (mom)	Jul	0.7%		0.9%	
2:00	Norway	CPI underlying (yoy)	Jul	6.2%		7.0%	
3:00	Czech Rep.	CPI (yoy)	Jul	8.60%	8.6%	9.70%	
3:00	Turkey	Unemployment rate	Jun		n.a.	9.5%	
3:00	Turkey	Industrial production (yoy)	Jun		n.a.	-0.20%	
4:00	Italy	CPI EU Harmonized (yoy, F)	Jul	6.4%		6.4%	
4:00	Italy	CPI FOI Index Ex Tobacco	Jul	118.6		118.6	
6:00	Serbia	Repurchase Rate	-	6.50%	n.a.	6.50%	Lack of forward guidance in the previous press release seems to
							suggest reluctance to hike. With inflation on a steady downward
							track this should allow NBS to keep rates on hold for a time being
7:00	South Africa	Manufacturing production (yoy)	Jun		n.a.	2.50%	
8:00	Brazil	IBGE Services Volume MoM SA	Jun	0.60%		0.90%	We expect services volume to increase 0.6% momsa in June (vs 0.9%
							momsa in May). In yoy terms, the volume likely increased by 4.3%
							(from 4.7%). Families continue to favor consuming services, rather
							than purchasing goods. In June, that picture will be evident again,

NYT	Country	Data/Event	For	BofAe	Cons.†	Previous	Comments
							with stability in industrial production, contraction in sales and
							increase in services.
8:00	Brazil	IBGE Services Volume YoY NSA	Jun	4.30%		4.70%	
8:30	US	Initial Jobless Claims	Aug 5	236k	_	227k	
8:30	US	Consumer Price Index (yoy)	Jul	3.2%	3.2%	3.0%	
8:30	US	CPI Ex Food & Energy (yoy)	Jul	4.6%	4.8%	4.8%	
8:30	US	Consumer Price Index (mom)	Jul	0.2%	0.2%	0.2%	
8:30	US	CPI Ex Food & Energy (mom)	Jul	0.1%	0.2%	0.2%	
8:30	Chile	Central Bank Economist Survey					
14:00	US	Monthly Budget Statement	Jul	-\$50.0bn	_	-\$227.8bn	
15:00	Mexico	Overnight Rate	10-Aug	11.25%	11.25%	11.25%	We expect Banxico to keep the overnight rate unchanged at 11.25% on August 10. Both headline and core inflation are decelerating, but services inflation remains stuck around 5.5%. According to a board member, the overnight should remain at its current level for an extended period and a new hike can't be discarded. We expect Banxico to remain on hold for the rest of the year, although risks are skewed to the upside as GDP maintains the momentum and domstic inflation still high.
15:00	Argentina	Wages MoM	Jun			7.50%	
18:30	New Zealand	BusinessNZ Manufacturing PMI	Jul			47.5	
18:45	New Zealand	Food Prices (mom)	Jul			1.6%	
19:00	Peru	Reference Rate	10-Aug	7.75%		7.75%	We forecast the BCRP to keep the monetary policy rate unchanged at 7.75% on August 10
-	Egypt	CPI (yoy)	Jul		n.a.	35.70%	
-	Egypt	Core CPI (yoy)	Jul		n.a.	41.00%	
	Mexico	ANTAD Same-Store Sales YoY	Jul			9.30%	
	Guatemala	Economic Activity Indx YoY NSA	Jun			3.40%	

Friday

A	4	4
Διισ		
, 1MP	•	•

NYT	Country	Data/Event	For	BofAe	Cons.†	Previous Comments	
1:30	France	ILO Unemployment Rate	2Q	7.1%		7.1%	
1:30	France	ILO Mainland Unemployment Rate	2Q	6.9%		6.9%	
2:00	UK	Monthly GDP (mom)	Jun	0.3%		-0.1%	
2:00	UK	Industrial Production (mom)	Jun	-0.1%		-0.6%	
2:00	UK	Industrial Production (yoy)	Jun	-1.3%		-2.3%	
2:00	UK	Manufacturing Production (mom)	Jun	0.5%		-0.2%	
2:00	UK	Manufacturing Production (yoy)	Jun	0.6%		-1.2%	
2:00	UK	Index of Services (mom)	Jun	0.4%		0.0%	
2:00	UK	Index of Services 3M/3M	Jun	0.1%		0.0%	
2:00	UK	Construction Output (sa, mom)	Jun	0.0%		-0.2%	
2:00	UK	Construction Output (sa, yoy)	Jun	2.9%		0.2%	
2:00	UK	Visible Trade Balance GBP/Mn	Jun	-17.6bn		-18.7bn	
2:00	UK	Trade Balance GBP/Mn	Jun	-5.4bn		-6.6bn	
2:00	UK	GDP (qoq, P)	2Q	0.1%		0.1%	
2:00	UK	GDP (yoy, P)	2Q	0.3%		0.2%	
2:00	UK	Private Consumption (qoq, P)	2Q	n.a.		0.0%	
2:00	UK	Government Spending (qoq, P)	2Q	n.a.		-1.8%	
2:00	UK	Gross Fixed Capital Formation (qoq, P)	2Q	n.a.		2.4%	
2:00	UK	Exports (qoq, P)	2Q	n.a.		-6.9%	
2:00	UK	Imports (qoq, P)	2Q	n.a.		-3.8%	
2:00	UK	Total Business Investment (qoq, P)	2Q	n.a.		3.3%	
2:00	UK	Total Business Investment (yoy, P)	2Q	n.a.		5.8%	
2:00	Romania	CPI (yoy)	Jul	9.60%	n.a.	10.25%	
2:45	France	CPI EU Harmonized (mom, F)	Jul	0.0%		0.0%	
2:45	France	CPI EU Harmonized (yoy, F)	Jul	5.0%		5.0%	
2:45	France	CPI (mom, F)	Jul	0.0%		0.0%	
2:45	France	CPI (yoy, F)	Jul	4.3%		4.3%	
2:45	France	CPI Ex-Tobacco Index	Jul	116.8		116.8	
3:00	Spain	CPI (mom, F)	Jul	0.1%		0.1%	
3:00	Spain	CPI (yoy, F)	Jul	2.3%		2.3%	

NYT	Country	Data/Event	For	BofAe	Cons.†	Previous	s Comments
3:00	Spain	CPI EU Harmonised (mom, F)	Jul	-0.1%		-0.1%	
3:00	Spain	CPI EU Harmonised (yoy, F)	Jul	2.1%		2.1%	
3:00	Spain	CPI Core (yoy, F)	Jul	6.2%		6.2%	
3:00	Spain	CPI Core (mom)	Jul	0.5%		0.5%	
3:00	Turkey	Current account (USDbn)	Jun		0.48bn	-7.93bn	
4:00	Czech Rep.	Current account (CZKbn)	Jun	n.a.	-11bn	0.89bn	
4:30	Hong Kong	GDP YoY	2Q F				
6:00	Serbia	CPI (yoy)	Jul	13.20%	n.a.	13.70%	Moderating CPI growth should continue to push annual inflation down on the back of strong base effect
8:00	India	Industrial Production YoY	Jun		5.1%	5.20%	
8:00	Brazil	IBGE Inflation IPCA MoM	Jul	-0.01%		-0.08%	We forecast IPCA inflation at -0.01% mom in July (vs -0.08% mom in
							June). The print should be influenced by low commodity prices and bonuses in Itaipu plant. In yoy terms, IPCA should accelerate to 3.85% (vs 3.16% yoy previously).
8:00	Brazil	IBGE Inflation IPCA YoY	Jul	3.85%		3.16%	
8:00	Mexico	Manuf. Production NSA YoY	Jun			1.90%	
8:00	Mexico	Industrial Production NSA YoY	Jun	3.91%		3.90%	We expect industrial production to increase 3.9% yoy in June.
8:00	Mexico	Industrial Production SA MoM	Jun	0.30%		1.00%	On a monthly basis, we expect IP to edge up 0.3% mom sa in June, driven by construction and manufacturing exports.
8:00	Brazil	Economic Activity YoY	Jun	1.60%		2.15%	For June's IBC-BR economic activity, we believe that activity grew 0.4% momsa, not enough to offset the 2.0% drop recorded in May. In yoy prints, we expect economic activity to have increased 1.6% yoy (from 2.1% yoy previously), with a slowdown expected ahead.
8:00	Brazil	Economic Activity MoM	lun	0.40%		-2.00%	yoy (110111 2.1 76 yoy previously), with a slowdown expected aread.
8:30	US	Producer Price Index (mom)	Jul	0.2%	0.2%	0.1%	
8:30	US	PPI Ex Food & Energy (mom)	Jul	0.2%	0.2%	0.1%	
8:30	US	PPI Ex Food, Energy, Trade (mom)	Jul	0.3%	0.1%	0.1%	
10:00	US	U. of Michigan Sentiment	Aug P	73	71	71.6	
	Costa Rica	Economic Activity YoY	Jun			5.50%	
	El Salvador	CPI YoY	Jul			3.80%	



Quarterly Risk Calendar - August

Exhibit 5: August calendarThere are four central bank meetings this month

	Political/Meeting		(none) Economic Data	Central Banks
Week #	Date	Country	Event	Details
	01-Aug	AU	Central Banks	RBA rates meeting
	01-Aug		Economic Data	PMIs for Sweden, Norway, Eurozone (F), UK (F), US (F)
	01-Aug	EC	Economic Data	Unemployment Rate
	01-Aug	US	Economic Data	ISM Manufacturing
	02-Aug	US	Economic Data	ADP Employment Change
	03-Aug	AU	Economic Data	Trade Balance
Week #33	03-Aug	SZ	Economic Data	CPI
	03-Aug		Economic Data	PMIs for Sweden, Eurozone (F), UK (F), US (F)
	03-Aug	US	Economic Data	ISMs
	03-Aug	UK	Central Banks	BoE rates meeting
	04-Aug	UK	Economic Data	PMI Construction
	04-Aug	US	Economic Data	Labor Market Report
	04-Aug	CA	Economic Data	Labor Market Report
	10-Aug	US	Economic Data	CPI
Week #34	11-Aug	GE	Economic Data	Current Account Balance
	11-Aug	UK	Economic Data	GDP, Trade Balance
	15-Aug	JN	Economic Data	GDP (P)
	15-Aug	SW	Economic Data	CPIF
	15-Aug	CA	Economic Data	CPI
	15-Aug	UK	Economic Data	Labor Market Report
	16-Aug	NZ	Central Banks	RBNZ Rates Meeting
Week #35	16-Aug	UK	Economic Data	CPI
	16-Aug	EC	Economic Data	GDP (P)
	17-Aug	NO	Central Banks	Norgesbank rates meeting
	18-Aug	EC	Economic Data	Trade Balance
	18-Aug	NO	Economic Data	GDP
	18-Aug	JN	Economic Data	CPI
	20-Aug	NZ	Economic Data	Trade Balance
	22-Aug	EC	Economic Data	Current Account
Week #36	24-Aug	NO	Economic Data	Unemployment Rate
	25-Aug	GE	Economic Data	GDP (F)
	25-Aug	SW	Economic Data	Unemployment Rate
Week #37	30-Aug	US	Economic Data	GDP (S)
week #3/	31-Aug	EC	Economic Data	CPI

Source: BofA Global Research, Bloomberg



Quarterly Risk Calendar - September

Exhibit 3: September calendarThere are 9 central bank meetings this month

	Political/Meeting	<u> </u>	(none) Economic Data	Central Banks
Week #	Date	Country	Event	Details
	1-Sep	SZ	Economic Data	CPI
	1-Sep		Economic Data	PMIs for Sweden, Eurozone (F), Norway, UK (F), US
Week #37	1-Sep	NO	Economic Data	Unemployment Rate
week #37	1-Sep	US	Economic Data	ISM
	1-Sep	CA	Economic Data	GDP
	1-Sep	US	Economic Data	Labor market report
	4-Sep	GE	Economic Data	Trade Balance
	4-Sep	SZ	Economic Data	GDP
	5-Sep	AU	Central Banks	RBA rates meeting
	5-Sep		Economic Data	PMIs for Sweden, Eurozone (F) and UK (F)
	6-Sep	AU	Economic Data	GDP
	6-Sep		Economic Data	PMIs for UK, US (F)
	6-Sep	US	Economic Data	ISMs, Trade Balance
Week #38	6-Sep	CA	Central Banks	BoC rates meeting
	7-Sep	AU	Economic Data	Trade Balance
	7-Sep	EC	Economic Data	GDP (F)
	8-Sep	JN	Economic Data	GDP (F), current account balance
	8-Sep		Economic Data	GDP for Norway, Sweden
	8-Sep	GE	Economic Data	CPI (F)
	8-Sep	CA	Economic Data	Labor Market Report
	11-Sep	NO	Economic Data	CPI
	12-Sep	GE	Economic Data	Current Account Balance
	12-Sep	UK	Economic Data	Labor Market Report
	13-Sep	UK	Economic Data	GDP, Trade Balance
Week #39	13-Sep	US	Economic Data	CPI
	14-Sep	AU	Economic Data	Labor market Report
	14-Sep	SW	Economic Data	CPIF
	14-Sep	EC	Central Banks	ECB rates meeting
	15-Sep	EC	Economic Data	Trade Balance
	19-Sep	EC	Economic Data	Current Account Balance
	19-Sep	EC	Economic Data	CPI (F)
	19-Sep	CA	Economic Data	CPI
	20-Sep	JN	Economic Data	Trade Balance
	20-Sep	ÚK	Economic Data	CPI
	20-Sep	SW	Economic Data	Unemployment Rate
	20-Sep	US	Central Banks	Fed rates meeting
	20-Sep	NZ	Economic Data	GDP
Week #40	21-Sep	SW	Central Banks	Riksbank rates meeting
	21-Sep	SZ	Central Banks	SNB rates meeting
	21-Sep	NO	Central Banks	Norgesbank rates meeting
	21-Sep	UK	Economic Data	BoE rates meeting
	21-Sep	US	Economic Data	Current Account Balance
	22-Sep	JN	Central Banks	BoJ rates meeting
	22-Sep	JN	Economic Data	CPI
—	22-Sep	,	Economic Data	PMIs for EC, UK, and US
	27-Sep	AU	Economic Data	CPI
	27-Sep	NO	Economic Data	Unemployment Rate
	28-Sep	GE	Economic Data	CPI
Week #41	28-Sep	US	Economic Data	GDP (T)
	29-Sep	UK	Economic Data	GDP (F)
	29-Sep	EC	Economic Data	CPI
	23 JCP	LC	Zeonomic Data	G I

Source: BofA Global Research, Bloomberg



Quarterly Risk Calendar - October

Exhibit 3: October calendar

There are 5 central bank meetings this month

	Political/Meeting		(none) Econom	ic Data Central Banks
Week #	Date	Country	Event	Details
	02-Oct		Economic Data	PMIs for Sweden, Norway, Eurozone (F), UK (F)
	02-Oct	NO	Economic Data	GDP
	02-Oct	EC	Economic Data	Unemployment Rate
	02-Oct	US	Economic Data	PMI Manufacturing
	02-Oct	US	Economic Data	ISM Manufacturing
	03-Oct	AU	Central Banks	RBA rates meeting
	03-Oct	SZ	Economic Data	CPI
Week #42	04-Oct	NZ	Central Banks	RBNZ rates meeting
Week #42	04-Oct		Economic Data	PMIs for Sweden, Eurozone (F), UK, US (F)
	04-Oct	US	Economic Data	ISMs
	04-Oct	US	Economic Data	ADP Employment Change
	05-Oct	AU	Economic Data	Trade Balance
	05-Oct	US	Economic Data	Trade Balance
	05-Oct	UK	Economic Data	PMI Construction
	06-Oct	US	Economic Data	Labor Market
	06-Oct	CA	Economic Data	Labor Market
	10-Oct	JN	Economic Data	Current Account Balance
	10-Oct	SW	Economic Data	GDP
	10-Oct	NO	Economic Data	CPI
Week #43	11-Oct	GE	Economic Data	CPI (F), Current Account Balance
	12-Oct	UK	Economic Data	GDP, Trade Balance
_	12-Oct	US	Economic Data	CPI
_	13-Oct	SW	Economic Data	CPIF
	13-Oct	NZ	Political / Meeting	New Zealand Election
-	16-Oct	EC	Economic Data	Trade Balance
-	16-Oct	NZ	Economic Data	CPI
-	17-Oct	UK	Economic Data	Labor Market Report
-	17-Oct	CA	Economic Data	CPI
-	18-Oct	UK	Economic Data	CPI
Week #44	18-Oct	EC	Economic Data	CPI (F)
-	19-Oct	JN	Economic Data	Trade Balance
-	19-Oct	AU	Economic Data	Labor Market Report
_	19-Oct	EC NZ	Economic Data	Current Account Balance
-	19-Oct 20-Oct	JN	Economic Data Economic Data	Trade Balance CPI
-		1		
-	24-Oct 25-Oct	EC AU	Economic Data Economic Data	PMIs for Eurozone (P), UK (p) and US (P) CPI
F	25-0ct	CA	Economic Data	BoC Rates Meeting
Week #45	25-Oct	NO NO	Economic Data	Unemployment Rate
F	26-Oct	EC	Economic Data	ECB rates meeting
-	26-Oct	US	Economic Data	GDP
	31-Oct	SW	Economic Data	GDP
-	31-0ct	GE	Economic Data	CPI (P)
-	31-0ct	JN	Economic Data	Bol rates meeting
Week #46	31-0ct	GE	Economic Data	GDP (P)
CCR #*O	31-0ct	EC	Economic Data	GDP (P)
-	31-0ct	CA	Economic Data	GDP
-	31-Oct	NZ	Economic Data	Unemployment Rate
	21-Off	INC	ECONOMIC Data	опетроутель таке

Source: BofA Global Research, Bloomberg



Disclosures

Important Disclosures

BofA Global Research personnel (including the analyst(s) responsible for this report) receive compensation based upon, among other factors, the overall profitability of Bank of America Corporation, including profits derived from investment banking. The analyst(s) responsible for this report may also receive compensation based upon, among other factors, the overall profitability of the Bank's sales and trading businesses relating to the class of securities or financial instruments for which such analyst is responsible.

BofA Securities fixed income analysts regularly interact with sales and trading desk personnel in connection with their research, including to ascertain pricing and liquidity in the fixed income markets

Other Important Disclosures

Prices are indicative and for information purposes only. Except as otherwise stated in the report, for any recommendation in relation to an equity security, the price referenced is the publicly traded price of the security as of close of business on the day prior to the date of the report or, if the report is published during intraday trading, the price referenced is indicative of the traded price as of the date and time of the report and in relation to a debt security (including equity preferred and CDS), prices are indicative as of the date and time of the report and are from various sources including BofA Securities trading desks.

The date and time of completion of the production of any recommendation in this report shall be the date and time of dissemination of this report as recorded in the report timestamp.

This report may refer to fixed income securities or other financial instruments that may not be offered or sold in one or more states or jurisdictions, or to certain categories of investors, including retail investors. Readers of this report are advised that any discussion, recommendation or other mention of such instruments is not a solicitation or offer to transact in such instruments. Investors should contact their BofA Securities representative or Merrill Global Wealth Management financial advisor for information relating to such instruments. Rule 144A securities may be offered or sold only to persons in the U.S. who are Qualified Institutional Buyers within the meaning of Rule 144A under the Securities Act of 1933, as amended. SECURITIES OR OTHER FINANCIAL INSTRUMENTS DISCUSSED HEREIN MAY BE RATED BELOW INVESTMENT GRADE AND SHOULD THEREFORE ONLY BE CONSIDERED FOR INCLUSION IN ACCOUNTS QUALIFIED FOR SPECULATIVE INVESTMENT.

Recipients who are not institutional investors or market professionals should seek the advice of their independent financial advisor before considering information in this report in connection with any investment decision, or for a necessary explanation of its contents.

The securities or other financial instruments discussed in this report may be traded over-the-counter. Retail sales and/or distribution of this report may be made only in states where these instruments are exempt from registration or have been qualified for sale.

Officers of BofAS or one or more of its affiliates (other than research analysts) may have a financial interest in securities of the issuer(s) or in related investments.

This report, and the securities or other financial instruments discussed herein, may not be eligible for distribution or sale in all countries or to certain categories of investors, including retail investors.

Refer to BofA Global Research policies relating to conflicts of interest

"BofA Securities" includes BofA Securities, Inc. ("BofAS") and its affiliates. Investors should contact their BofA Securities representative or Merrill Global Wealth Management financial advisor if they have questions concerning this report or concerning the appropriateness of any investment idea described herein for such investor. "BofA Securities" is a global brand for BofA Global Research.

Information relating to Non-US affiliates of BofA Securities and Distribution of Affiliate Research Reports:

BofAS and/or Merrill Lynch, Pierce, Fenner & Smith Incorporated ("MLPF&S") may in the future distribute, information of the following non-US affiliates in the US (short name: legal name, regulator): Merrill Lynch (South Africa): Merrill Lynch South Africa (Pty) Ltd., regulated by The Financial Service Board; MLI (UK): Merrill Lynch International, regulated by the Financial Conduct Authority (FCA) and the Prudential Regulation Authority (PRA); BofASE (France): BofA Securities Europe SA is authorized by the Autorité de Contrôle Prudential et de Résolution (ACPR) and regulated by the ACPR and the Autorité des Marchés Financiers (AMF). BofA Securities Europe SA ("BofASE") with registered address at 51, rue La Boétie, 75008 Paris is registered under no. 842 602 690 RCS Paris. In accordance with the provisions of French Code Monétaire et Financier (Monetary and Financial Code), BofASE is an établissement de crédit et d'investissement (credit and investment institution) that is authorised and supervised by the European Central Bank and the Autorité de Contrôle Prudentiel et de Résolution (ACPR) and regulated by the ACPR and the Autorité des Marchés Financiers. BofASE's share capital can be found at www.bofaml.com/BofASEdisclaimer; BofA Europe (Milan): Bank of America Europe Designated Activity Company, Milan Branch, regulated by the Bank of Italy, the European Central Bank (ECB) and the Central Bank of Ireland (CBI); BofA Europe (Frankfurt); Bank of America Europe Designated Activity Company. Frankfurt Branch regulated by BaFin, the ECB and the CBI, BofA Europe (Madrid): Bank of America Europe Designated Activity Company, Sucursal en España, regulated by the Bank of Spain, the ECB and the CBI; Merrill Lynch (Australia): Merrill Lynch (Australia): Merrill Lynch (Hong Kong): Merrill (Asia Pacific) Limited, regulated by the Hong Kong Securities and Futures Commission (HKSFC); Merrill Lynch (Singapore): Merrill Lynch (Singapore) Pte Ltd, regulated by the Monetary Authority of Singapore (MAS); Merrill Lynch (Canada): Merrill Lynch (Canada): Merrill Lynch (Canada): Merrill Lynch (Mexico): Merrill Lynch (Mexico) Merrill Lynch (Mexico): Merrill Lynch (Mexico) Merrill Lynch (Mexico): Merrill Lync CV, Casa de Bolsa, regulated by the Comisión Nacional Bancaria y de Valores; Merrill Lynch (Argentina): Merrill Lynch Argentina SA, regulated by Comisión Nacional de Valores; BofAS Japan: BofA Securities Japan Co., Ltd., regulated by the Financial Services Agency; Merrill Lynch (Seoul): Merrill Lynch International, LLC Seoul Branch, regulated by the Financial Supervisory Service; Merrill Lynch (Taiwan): Merrill Lynch Securities (Taiwan) Ltd., regulated by the Securities and Futures Bureau; BofAS India: BofA Securities India Limited, regulated by the Securities and Exchange Board of India (SEBI); Merrill Lynch (Israel): Merrill Lynch Israel Limited, regulated by Israel Securities Authority; Merrill Lynch (DIFC): Merrill Lynch International (DIFC Branch), regulated by the Dubai Financial Services Authority (DFSA); Merrill Lynch (Brazil): Merrill Lynch S.A. Corretora de Títulos e Valores Mobiliários, regulated by Comissão de Valores Mobiliários; Merrill Lynch KSA Company: Merrill Lynch Kingdom of Saudi Arabia Company, regulated by the Capital Market Authority.

This information: has been approved for publication and is distributed in the United Kingdom (UK) to professional clients and eligible counterparties (as each is defined in the rules of the FCA and the PRA) by MLI (UK), which is authorized by the PRA and regulated by the FCA and the PRA - details about the extent of our regulation by the FCA and PRA are available from us on request; has been approved for publication and is distributed in the European Economic Area (EEA) by BofASE (France), which is authorized by the ACPR and regulated by the ACPR and the AMF; has been considered and distributed in Japan by BofAS Japan, a registered securities dealer under the Financial Instruments and Exchange Act in Japan, or its permitted affiliates; is issued and distributed in Hong Kong by Merrill Lynch (Hong Kong) which is regulated by HKSFC; is issued and distributed in Taiwan by Merrill Lynch (Taiwan); is issued and distributed in India by BofAS India; and is issued and distributed in Singapore to institutional investors and/or accredited investors (each as defined under the Financial Advisers Regulations) by Merrill Lynch (Singapore) (Company Registration No 198602883D). Merrill Lynch (Singapore) is regulated by MAS. Merrill Lynch Equities (Australia) Limited (ABN 65 006 276 795), AFS License 235132 (MLEA) distributes this information in Australia only to 'Wholesale' clients as defined by s.761G of the Corporations Act 2001. With the exception of Bank of America N.A., Australia Branch, neither MLEA nor any of its affiliates involved in preparing this information is an Authorised Deposit-Taking Institution under the Banking Act 1959 nor regulated by the Australian Prudential Regulation Authority. No approval is required for publication or distribution of this information in Brazil and its local distribution is by Merrill Lynch (Brazil) in accordance with applicable regulations. Merrill Lynch (DIFC) is authorized and regulated by the DFSA. Information in Germany and is regulated by BaFin, the ECB and the CBI. BofA Securit

This information has been prepared and issued by BofAS and/or one or more of its non-US affiliates. The author(s) of this information may not be licensed to carry on regulated activities in your jurisdiction and, if not licensed, do not hold themselves out as being able to do so. BofAS and/or MLPF&S is the distributor of this information in the US and accepts full responsibility for



information distributed to BofAS and/or MLPF&S clients in the US by its non-US affiliates. Any US person receiving this information and wishing to effect any transaction in any security discussed herein should do so through BofAS and/or MLPF&S and not such foreign affiliates. Hong Kong recipients of this information should contact Merrill Lynch (Asia Pacific) Limited in respect of any matters relating to dealing in securities or provision of specific advice on securities or any other matters arising from, or in connection with, this information. Singapore recipients of this information should contact Merrill Lynch (Singapore) Pte Ltd in respect of any matters arising from, or in connection with, this information. For clients that are not accredited investors, expert investors or institutional investors Merrill Lynch (Singapore) Pte Ltd accepts full responsibility for the contents of this information distributed to such clients in Singapore.

General Investment Related Disclosures:

Taiwan Readers: Neither the information nor any opinion expressed herein constitutes an offer or a solicitation of an offer to transact in any securities or other financial instrument. No part of this report may be used or reproduced or quoted in any manner whatsoever in Taiwan by the press or any other person without the express written consent of BofA Securities. This document provides general information only, and has been prepared for, and is intended for general distribution to, BofA Securities clients. Neither the information nor any opinion expressed constitutes an offer or an invitation to make an offer, to buy or sell any securities or other financial instrument or any derivative related to such securities or instruments (e.g., options, futures, warrants, and contracts for differences). This document is not intended to provide personal investment advice and it does not take into account the specific investment objectives, financial situation and the particular needs of, and is not directed to, any specific person(s). This document and its content do not constitute, and should not be considered to constitute, investment advice for purposes of ERISA, the US tax code, the Investment Advisers Act or otherwise. Investors should seek financial advice regarding the appropriateness of investing in financial instruments and implementing investment strategies discussed or recommended in this document and should understand that statements regarding future prospects may not be realized. Any decision to purchase or subscribe for securities in any offering must be based solely on existing public information on such security or the information in the prospectus or other offering document issued in connection with such offering, and not on this document.

Securities and other financial instruments referred to herein, or recommended, offered or sold by BofA Securities, are not insured by the Federal Deposit Insurance Corporation and are not deposits or other obligations of any insured depository institution (including, Bank of America, N.A.). Investments in general and, derivatives, in particular, involve numerous risks, including, among others, market risk, counterparty default risk and liquidity risk. No security, financial instrument or derivative is suitable for all investors. Digital assets are extremely speculative, volatile and are largely unregulated. In some cases, securities and other financial instruments may be difficult to value or sell and reliable information about the value or risks related to the security or financial instrument may be difficult to obtain. Investors should note that income from such securities and other financial instruments, if any, may fluctuate and that price or value of such securities and instruments may rise or fall and, in some cases, investors may lose their entire principal investment. Past performance is not necessarily a guide to future performance. Levels and basis for taxation may change.

Futures and options are not appropriate for all investors. Such financial instruments may expire worthless. Before investing in futures or options, clients must receive the appropriate risk disclosure documents. Investment strategies explained in this report may not be appropriate at all times. Costs of such strategies do not include commission or margin expenses. BofA Securities is aware that the implementation of the ideas expressed in this report may depend upon an investor's ability to "short" securities or other financial instruments and that such action may be limited by regulations prohibiting or restricting "shortselling" in many jurisdictions. Investors are urged to seek advice regarding the applicability of such regulations prior to executing any short idea contained in this report.

This report may contain a trading idea or recommendation which highlights a specific identified near-term catalyst or event impacting a security, issuer, industry sector or the market generally that presents a transaction opportunity, but does not have any impact on the analyst's particular "Overweight" or "Underweight" rating (which is based on a three month trade horizon). Trading ideas and recommendations may differ directionally from the analyst's rating on a security or issuer because they reflect the impact of a near-term catalyst or event.

Foreign currency rates of exchange may adversely affect the value, price or income of any security or financial instrument mentioned in this report. Investors in such securities and instruments effectively assume currency risk

BofAS or one of its affiliates is a regular issuer of traded financial instruments linked to securities that may have been recommended in this report. BofAS or one of its affiliates may, at any time, hold a trading position (long or short) in the securities and financial instruments discussed in this report.

BofA Securities, through business units other than BofA Global Research, may have issued and may in the future issue trading ideas or recommendations that are inconsistent with, and reach different conclusions from, the information presented herein. Such ideas or recommendations may reflect different time frames, assumptions, views and analytical methods of the persons who prepared them, and BofA Securities is under no obligation to ensure that such other trading ideas or recommendations are brought to the attention of any recipient of this information. In the event that the recipient received this information pursuant to a contract between the recipient and BofAS for the provision of research services for a separate fee, and in connection therewith BofAS may be deemed to be acting as an investment adviser, such status relates, if at all, solely to the person with whom BofAS has contracted directly and does not extend beyond the delivery of this report (unless otherwise agreed specifically in writing by BofAS). If such recipient uses the services of BofAS in connection with the sale or purchase of a security referred to herein, BofAS may act as principal for its own account or as agent for another person. BofAS is and continues to act solely as a broker-dealer in connection with the execution of any transactions, including transactions in any securities referred to herein.

Copyright and General Information:

Copyright 2023 Bank of America Corporation. All rights reserved. iQdatabase® is a registered service mark of Bank of America Corporation. This information is prepared for the use of BofA Securities clients and may not be redistributed, retransmitted or disclosed, in whole or in part, or in any form or manner, without the express written consent of BofA Securities. BofA Global Research information is distributed simultaneously to internal and client websites and other portals by BofA Securities and is not publicly-available material. Any unauthorized use or disclosure is prohibited. Receipt and review of this information constitutes your agreement not to redistribute, retransmit, or disclose to others the contents, opinions, conclusion, or information contained herein (including any investment recommendations, estimates or price targets) without first obtaining express permission from an authorized officer of BofA Securities. Materials prepared by BofA Global Research personnel are based on public information. Facts and views presented in this material have not been reviewed by, and may not reflect information known to, professionals in other business areas of BofA Securities, including investment banking personnel. BofA Securities has established information barriers between BofA Global Research and certain business groups. As a result, BofA Securities does not disclose certain client relationships with, or compensation received from, such issuers. To the extent this material discusses any legal proceeding or issues, it has not been prepared as nor is it intended to express any legal conclusion, opinion or advice. Investors should consult their own legal advisers as to issues of law relating to the subject matter of this material. BofA Global Research personnel's knowledge of legal proceedings in which any BofA Securities entity and/or its directors, officers and employees may be plaintiffs, defendants, co-defendants or co-plaintiffs with or involving issuers mentioned in this material is based on public inform

This information has been prepared independently of any issuer of securities mentioned herein and not in connection with any proposed offering of securities or as agent of any issuer of any securities. None of BofAS any of its affiliates or their research analysts has any authority whatsoever to make any representation or warranty on behalf of the issuer(s). BofA Global Research policy prohibits research personnel from disclosing a recommendation, investment rating, or investment thesis for review by an issuer prior to the publication of a research report containing such rating, recommendation or investment thesis.

Any information relating to the tax status of financial instruments discussed herein is not intended to provide tax advice or to be used by anyone to provide tax advice. Investors are urged to seek tax advice based on their particular circumstances from an independent tax professional.

The information herein (other than disclosure information relating to BofA Securities and its affiliates) was obtained from various sources and we do not guarantee its accuracy. This information may contain links to third-party websites. BofA Securities is not responsible for the content of any third-party website or any linked content contained in a third-party website. Content contained on such third-party websites is not part of this information and is not incorporated by reference. The inclusion of a link does not imply any endorsement by or any affiliation with BofA Securities. Access to any third-party website is at your own risk, and you should always review the terms and privacy policies at third-party websites before submitting any personal information to them. BofA Securities is not responsible for such terms and privacy policies and expressly disclaims any liability for them.

All opinions, projections and estimates constitute the judgment of the author as of the date of publication and are subject to change without notice. Prices also are subject to change without notice. BofA Securities is under no obligation to update this information and BofA Securities ability to publish information on the subject issuer(s) in the future is subject to applicable quiet periods. You should therefore assume that BofA Securities will not update any fact, circumstance or opinion contained herein.

Certain outstanding reports or investment opinions relating to securities, financial instruments and/or issuers may no longer be current. Always refer to the most recent research report relating to an issuer prior to making an investment decision.

In some cases, an issuer may be classified as Restricted or may be Under Review or Extended Review. In each case, investors should consider any investment opinion relating to such issuer (or its security and/or financial instruments) to be suspended or withdrawn and should not rely on the analyses and investment opinion(s) pertaining to such issuer (or its securities and/or financial instruments) nor should the analyses or opinion(s) be considered a solicitation of any kind. Sales persons and financial advisors affiliated with BofAS or any of its affiliates may not solicit



purchases of securities or financial instruments that are Restricted or Under Review and may only solicit securities under Extended Review in accordance with firm policies.

Neither BofA Securities nor any officer or employee of BofA Securities accepts any liability whatsoever for any direct, indirect or consequential damages or losses arising from any use of this information.



Research Analysts

Rates Strategist BofAS

ralph.axel@bofa.com

Bruno Braizinha, CFA

Rates Strategist **BofAS**

bruno.braizinha@bofa.com

Mark Cabana, CFA

Rates Strategist BofAS

mark.cabana@bofa.com

Mark Capleton Rates Strategist

MLI (UK)

mark.capleton@bofa.com

Paul Ciana, CMT

Technical Strategist

BofAS

paul.ciana@bofa.com

Katie Craig

Rates Strategist **BofAS**

katie.craig@bofa.com

Izumi Devalier

Japan and Asia Economist

BofAS Japan izumi.devalier@bofa.com

Pedro Diaz

Caribbean Economist

BofAS

pdiaz2@bofa.com

Howard Du, CFA

G10 FX Strategist

BofAS yuhao.du@bofa.com

Christian Gonzalez Rojas

LatAm Local Markets Strategist

BofAS

christian.gonzalezrojas@bofa.com

Abhay Gupta

Emerging Asia FI/FX Strategist Merrill Lynch (Singapore) abhay.gupta2@bofa.com

Vadim Jaralov

FX Strategist BofAS

vadim.iaralov@bofa.com

Zumrut Imamoglu

Turkey & Israel Economist

MLI (UK) zumrut.imamoglu@bofa.com

Takayasu Kudo

Japan and Asia Economist

BofAS Japan

takayasu.kudo@bofa.com

Mikhail Liluashvili

EEMEA Local Markets Strategist

MLI (UK) mikhail liluashvili@hofa.com

Tony Lin, CFA >>

Equity Strategist

BofAS Japan

tony.y.lin@bofa.com

Ronald Man

Rates Strategist

MLL (UK) ronald man@hofa.com

Lucas Martin, CFA

Sovereign Debt FI Strategist

lucas.martin@bofa.com

Shruti Mishra

US and Global Economist

BofAS

Merveille Paja

EEMEA Sovereign FI Strategist

MLI (UK)

merveille.paja@bofa.com

Claudio Piron

Emerging Asia FI/FX Strategist Merrill Lynch (Singapore) claudio.piron@bofa.com

Ralf Preusser, CFA

Rates Strategist

MLL (UK)

ralf preusser@hofa.com

Michalis Rousakis

FX Strategist

MLI (UK) michalis.rousakis@bofa.com

Tatonga Rusike

Sub-Saharan Africa Economist MLI (UK)

tatonga.rusike@bofa.com

Sphia Salim

Rates Strategist

MLI (UK) sphia.salim@bofa.com

Erjon Satko

Rates Strategist

BofASE (France)

erion.satko@bofa.com

Kamal Sharma

FX Strategist

MLI (UK) ksharma32@bofa.com

John Shin

FX Strategist

BofAS

joong.s.shin@bofa.com

Adarsh Sinha

FX Strategist

Merrill Lynch (Hong Kong)

adarsh.sinha@bofa.com

Agne Stengeryte Rates Strategist

MLI (UK)

agne.stengeryte@bofa.com

Meghan Swiber, CFA

Rates Strategist

BofAS

meghan.swiber@bofa.com

Athanasios Vamvakidis

FX Strategist MLI (UK)

athanasios.vamvakidis@bofa.com

Janice Xue

Rates Strategist

Merrill Lynch (Hong Kong) janice.xue@bofa.com

Shusuke Yamada, CFA

FX/Rates Strategist

BofAS Japan shusuke.yamada@bofa.com

Tomonobu Yamashita

Rates Strategist

BofAS Japan

tomonobu.yamashita@bofa.com

Shruti Mishra US and Global Economist

smishra44@bofa.com

Aditya Bhave

US Economist

BofAS

aditya.bhave@bofa.com

Ruben Segura-Cayuela

Europe Economist

BofA Europe (Madrid) ruben.segura-cayuela@bofa.com

Robert Wood

UK Economist MLI (UK)

robert.d.wood@bofa.com

Helen Qiao

China & Asia Economist

Merrill Lynch (Hong Kong) helen.giao@bofa.com

Izumi Devalier

Japan and Asia Economist

BofAS Japan

izumi.devalier@bofa.com

Devika Shivadekar

Economist

Merrill Lynch (Australia) devika shiyadekar@hofa.com

Takayasu Kudo

Japan and Asia Economist

BofAS Japan takayasu.kudo@bofa.com

Michael Gapen

US Economist

BofAS michael.gapen@bofa.com

Stephen Juneau

US Economist

stephen.juneau@bofa.com

Jeseo Park

BofAS

US Economist **BofAS**

jeseo.park@bofa.com

Chiara Angeloni

Europe Economist BofA Europe (Milan)

chiara.angeloni@bofa.com

Evelyn Herrmann

Europe Economist BofASE (France)

evelyn.herrmann@bofa.com

Alessandro Infelise Zhou

Europe Economist BofASE (France)

 $aless and ro. in felise_zhou@bofa.com$

Devika Shivadekar Economist

Merrill Lynch (Australia) devika.shivadekar@bofa.com

Alex Cohen FX Strategist

BofAS alex.cohen2@bofa.com

Trading ideas and investment strategies discussed herein may give rise to significant risk and are not suitable for all investors. Investors should have experience in relevant markets and the financial resources to absorb any losses arising from applying

these ideas or strategies. >> Employed by a non-US affiliate of BofAS and is not registered/qualified as a research analyst under the

Refer to "Other Important Disclosures" for information on certain BofA Securities entities that take

responsibility for the information herein in particular iurisdictions.

