

# Liquid Insight

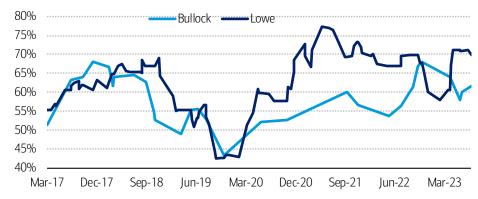
# Bullish on Bullock, bearish on growth

## Key takeaways

- Our RBA sentiment indicator suggests incoming RBA Governor Michele Bullock will be more dovish than Governor Lowe.
- Economic data supports our view for an extended RBA pause. Active QT could address upside risk to CPI and financial stability
- We continue to recommend receiving 10y swap EFP. Selling bonds vs OIS also looks attractive.

## By Oliver Levingston, Micaela Fuchila & Devika Shivadekar

Chart of the Day: BofA RBA Sentiment Indicator suggests Bullock is more dovish than Lowe Bullock to replace Lowe as RBA Governor next month



Source: BofA Global Research, RBA

BofA GLOBAL RESEARCH

## Governor change to transform focus

Michele Bullock will take over from Phil Lowe next month and our RBA Sentiment Indicator suggests she will be more dovish than her predecessor. The latest reading for Bullock (61%) has a dovish bias vs Lowe (69%), confirming our view that the RBA is likely to remain on hold. (Chart of the Day). The incoming Governor's expertise in financial stability and her focus on the labour market in recent communications confirms our view that balance-sheet policy (i.e. active QT/ bond sales) is now more likely and the RBA remains on extended pause (albeit with risks skewed to further hikes) (Exhibit 1).

Our favourite expression of this view to receive 10y swap EFP, which we entered at 51bps with a target of 20bps (current level 35bps) (See report: Australia Rates Viewpoint: The cycle is ending: time to receive swap EFP 19 July 2023). Risk to the trade is a more elongated hiking cycle than we forecast, which could place upward pressure on swap spreads Selling bonds vs OIS also looks attractive given our high-conviction view that bond richness has passed its peak.

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 8 to 9. Analyst Certification on page 7.

Timestamp: 15 August 2023 01:27AM EDT

#### 15 August 2023

Rates and Currencies Research

Global Rates & Currencies Research

MLI (UK)

Oliver Levingston Rates Strategist

Merrill Lynch (Australia) +61 2 9226 5173 oliver.levingston@bofa.com

Devika Shivadekar Economist Merrill Lynch (Australia) devika.shivadekar@bofa.com

Micaela Fuchila Economist Merrill Lynch (Australia) micaela.fuchila@bofa.com

Adarsh Sinha FX Strategist Merrill Lynch (Hong Kong) +852 3508 7155 adarsh.sinha@bofa.com

Janice Xue Rates Strategist Merrill Lynch (Hong Kong) +852 3508 8587 janice.xue@bofa.com

See Team Page for List of Analysts

#### **Liquid Insight**

Recent Publications

14-Aug-23	Do not expect large cuts to EGB
	<u>net issuance</u>
10-Aug-23	Finding a higher "neutral"
	<u>ground</u>
9-Aug-23	Bol could act if 10yr JGB yield
	hits 75bp
8-Aug-23	Home bias and real yields – a
	different kind of risk-off
7-Aug-23	FX positioning vs. history
3-Aug-23	ECB balance sheet update
2-Aug-23	Bank of England preview:
	persistence vs more hikes
1-Aug-23	High bar for near-term FX vol
	<u>spikes</u>
31-Jul-23	RBA preview: one more hike,
	<u>just in case</u>
27-Jul-23	Rol preview: Are we there yet?

BofA GLOBAL RESEARCH

QT = quantitative tightening

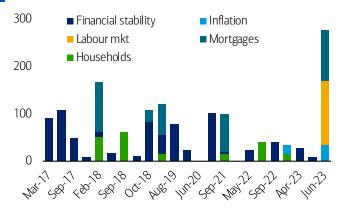
## RBA sentiment dovish, balance sheet policy in play

As we have previously highlighted, our RBA Sentiment index has shown a turn in sentiment, suggesting the RBA is near the end of the hiking cycle. After including the minutes of the RBA's July meeting, the latest reading of the sentiment indicator confirmed dovish sentiment, shifting down from 71.1% to 69.5% (Exhibit 2). There has also been a noteworthy convergence across the constituent series (Statement on Monetary Policy (SMP), Speeches and Minutes), suggesting the RBA's communications have been atypically uniform.

The change in RBA Governor has added uncertainty around the outlook but communication from the new Governor (currently Deputy Governor) suggest an ongoing focus on financial stability and the labour market rather than inflation (Exhibit 1). We see Bullock's dovish bias and expertise in financial stability as an indicator the RBA is more likely to calibrate late-cycle policy using its balance sheet. There are two reasons balance-sheet policy is uniquely suited to the RBA: (1) balance-sheet policy is likely to be less contentious and (2) the Australian Government's borrowing program has been repeatedly downgraded and the government looks set to deliver a second fiscal surplus in 2023/24 (Australia Rates Watch: Back in the Black: 2023/24 AU Budget Review 09 May 2023). A very limited government funding task means the RBA is highly unlikely to cause disorder by adding to ACGB supply.

Exhibit 1: Words used in Michele Bullock's communication



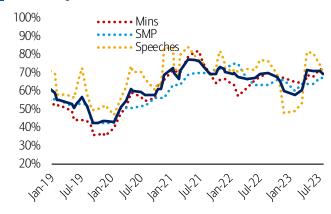


**Source:** BofA Global Research, Bloomberg \*Count of top 10 words in each speech Financial stability = financial, supervision, regulation, banking or stability, Labour mkt = unemployment or employment or labour, Mortgages = stress, borrowers, mortgage, housing or landing

BofA GLOBAL RESEARCH

## Exhibit 2: RBA Sentiment Indicator confirms dovish moves

Note convergence across indicators



**Source:** BofA Global Research, RBA

BofA GLOBAL RESEARCH

## Timing and mechanics

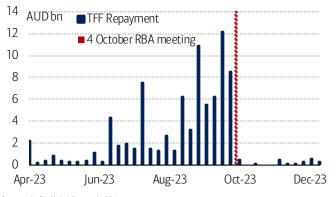
in the minutes of its May meeting, the RBA Board noted passive QT was "appropriate for the time being" but "the Bank's large holdings of government bonds exposed its balance sheet to a significant level of interest rate risk", suggesting periodic review would be appropriate On the question of timing, the minutes noted "the initial tranche of Term Funding Facility [TFF] maturities would occur in coming months and would provide information on how financial markets respond as the Bank's balance sheet declines (Minutes of the RBA's Monetary Policy Meeting, 2 May 2023).

Given the first tranche of TFF maturities concludes around the end of September, we see the RBA's meeting in October as the first 'live' meeting for an announcement (Exhibit 3). In our view, an announcement is likely in Q4 with sales to commence around the beginning of 2024. We see sales of \$25bn in 2023/24, \$50bn in 2024/25 and \$37.5bn in 2025/26. Asset sales at this pace will return liquidity (in this case, exchange settlement account balances held at the RBA) to its pre-pandemic levels by Q1 2026, which is when we see the RBA concluding the program.



We do not see asset sales of semi-government bonds (around 20% of the portfolio) at this stage, given the higher likelihood that asset sales in this market would cause bond-market disorder and the lower accumulated losses from semi holdings.

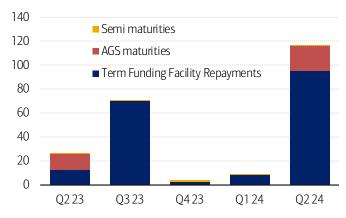
**Exhibit 3: Active QT likely up for consideration at October RBA meeting** First tranche of TFF maturities are mostly complete by end of September 2023



Source: BofA Global Research, RBA

BofA GLOBAL RESEARCH

# **Exhibit 4: Maturities skew to Q2 24 but sales likely from Q4 23** Active QT likely an option from October 2023

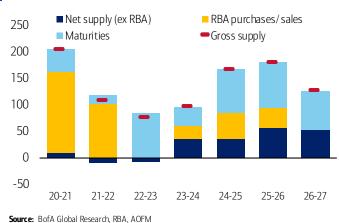


Source: BofA Global Research, RBA

BofA GLOBAL RESEARCH

## Exhibit 5: RBA sales would increase gross bond supply

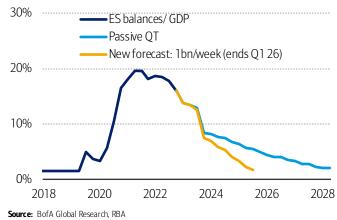
Bonds have remained scarce since 2024



BofA GLOBAL RESEARCH

## Exhibit 6: We see 1bn/ week in sales starting Feb 1, 2024

Program to conclude in Q1 2026



BofA GLOBAL RESEARCH

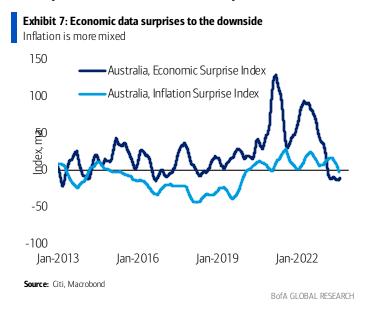
## The RBA's triple mandate vs current conditions

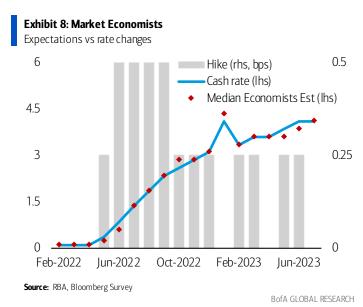
The RBA's focus on price stability, financial stability and full employment has seen guidance shifting between the three as the economic cycle matures. While the Bank intends to retain its hawkish bias as inflation remains too far above the target, recent communication suggests an increased focus on the labour market and broader economic activity. Economic data has surprised to the downside of late, but inflation surprises have been more mixed (Exhibit 7).

The RBA Board will continue to meet on a monthly basis for the rest of the year and September will be the last meeting with Governor Lowe in charge. Upcoming changes to the RBA, volatility in economic data and a very mixed global backdrop has increased the likehood for RBA surprises (Exhibit 8). Four weeks between meetings does not provide enough new information to assess current economic conditions. Therefore, the RBA's data-dependant reaction function becomes increasingly unclear and the markets and



economists place too much weight on one piece of data. In our view, inflation will remain stickier for longer, while economic conditions will continue to weaken. However, a tight labour market, early signs of a turnaround in the housing sector and a weaker currency means the RBA's focus will likely shift back to inflation.





#### On hold for the rest of 2023 with risk of further hikes

Ahead of Phil Lowe's last meeting in September, 2Q wages growth rose by 0.8%qoq, 3.6%yoy in line with our expectations, but slightly softer than the RBA's 3.7%yoy assumption. Wages is a slow moving series and this particular release will not reflect the impact of the minimum wage increase from July 1, but there are early signs of a peak in wages (Exhibit 10) . Additionally, labour market data for July will be released later this week, and we expect a small rise in unemployment to 3.6%, which is still a multi-decade low. This is on the back of a slower pace to employment growth and record-high participation. Overall, we are confident the RBA will keep rates unchanged at the September meeting and for the rest of the year, but upside risks for inflation should weigh more than supporting the labour market for now.

In four plausible scenarios with lower participation and fewer jobs, the unemployment rate struggles to rise sharply. The RBA's view of the neutral rate of unemployment (NAIRU) at around 4.5% suggests a condition for rate cuts would be an unemployment rate above 5%. However, experience from previous cycles suggest the RBA is more likely to keep rates unchanged if employment growth is positive and unemployment moves sideways around the 5-5.5% level.

The level of household debt is the key reason why the RBA is reluctant to deliver sharp policy moves. Notably, the risk for a mortgage cliff increases as fixed mortgages roll over. This is expected to peak in 3Q. While we think a strong labour market and some buffers in households balance sheet offsets this risk, the fixed rates rollover places more pressure on households whom are already experiencing high living costs. See report: Global Economic Viewpoint: Is refinancing the kryptonite of monetary policy? 14 August 2023

# **Exhibit 9: Scenarios on unemployment** Unemployment is unlikely to rise sharply

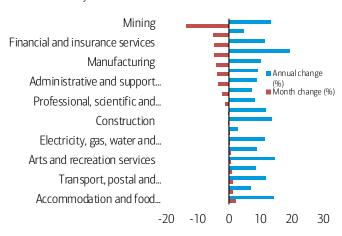
Job losses	Participation
180k	~66.83%
180k	~67.33%
100k	~66.83%
100k	~67.33%

Source: BofA estimations, ABS

# Unemployment 4.92% 5.60% 4.37% 5.08%

BofA GLOBAL RESEARCH

# **Exhibit 10: Wages seem to be falling across industries**Based on monthly indicators



Source: ABS

BofA GLOBAL RESEARCH

## QT as a macroprudential tool

We believe the main near-term risk ahead is un upside suriprise on inflation. 3Q data is seasonally strong and electricity prices have increased from July 1 along with petrol prices, a weaker AUD and phone bills in addition to persistent rent inflation (that is unlikely to fall given improved demographics). On the downside, the mortgage cliff (See report : Global Economic Viewpoint: Is refinancing the kryptonite of monetary policy? 14 August 2023) increases financial stability concerns as households leverage remains high. However, soft growth and household spending suggests the RBA will avoid further tightening to support the economy, in our view.

We think the RBA could tighten financial conditions to address inflation and financial stability risk by performing a more aggressive balance sheet reduction. This would avoid damaging consumer sentiment further while addressing inflation and financial stability concerns. Active QT is less aggressive than hikes. For instance, the Bank of England estimates around \$35bn of QE2 was equivalent to one 25bps cut, but the multiplier for QT is not as impactful as it wouldn't provide a signal on future policy rates.. See report: UK Viewpoint: How should the BoE do QT? Very carefully 28 January 2022 . While difficult to calculate its impact, we estimate around \$70bn QT would be equivalent to one 25bps hike. This means, the RBA would be delivering one hike over nine quarters. Therefore, the impact on growth would be very modest.

## Cylical bias to steepeners but fair value challenges view

Exhibit 11 presents four macro regimes over the past 30 years based on the stage of the RBA's cash-rate cycle – rising rates, pause after rising rates, falling rates and pause after falling rates. 3s10s steepeners underperform in a rising-rate environment and in a pause after falling rates but outperform after a cycle of rate hikes concludes. The 3s10s curve has outperformed in the first three months after a final pause by 59bps on average.

We continue to have a bias towards curve steepeners but the negative carry is unattractive and our fair value models suggest rates are very close to our year-end forecasts so we wait for better levels to add a recommendation (Exhibit 13, Exhibit 14, Exhibit 12). For now, our preferred expression is to position for cheaper bonds to swap by receiving 10y swap EFP and to trade a normalisation of funding markets by paying 6m 6s3s starting on 7 March 2024.



#### Exhibit 11: Curves steepen after final pause

30-159bps of steepening seen after terminal rate reached in previous cycles

Macro regime	End date	Change in nominal 10v	3s 10s shift	3s10s shift (3m post- regime)
Rising rates	1994	76	-99	68
Rising rates	2000	-61	-56	-4
Rising rates	2008	-17	-65	-78
Rising rates	2010	-1	-9	-20
Rising rates	2023	-14	-2	-4
Pause after rising rates	1996	-159	62	30
Pause after rising rates	2001	-91	52	37
Pause after rising rates	2008	-34	34	159
Pause after rising rates	2011	-83	40	10
Falling rates	1996	-48	19	5
Falling rates	2001	-6	50	-3
Falling rates	2009	-118	85	-32
Falling rates	2016	-259	-19	68
Falling rates	2020	-62	23	10
Pause after falling rates	1994	248	-19	-102
Pause after falling rates	1999	-119	-31	64
Pause after falling rates	2002	99	-52	-12
Pause after falling rates	2009	67	-66	-16
Pause after falling rates	2019	-32	-6	-4
Pause after falling rates	2022	252	-23	-71

**Source:** BofA Global Research, Bloomberg \*all figures in basis points

BofA GLOBAL RESEARCH

#### Exhibit 13: 3y at fair value

3y bond fair value just 1 basis points shy of year-end forecast



Source: BofA Global Research, Bloomberg

BofA GLOBAL RESEARCH

#### Exhibit 12: 10y slightly cheap vs fair value

We decline to add a trade given our outlook for a potential QT program



Source: BofA Global Research, Bloomberg

BofA GLOBAL RESEARCH

#### Exhibit 14: Belly in line with fair value, year-end forecasts

Wait for better levels to add outright trade



Source: BofA Global Research, Bloomberg

BofA GLOBAL RESEARCH



## **Notable Rates and FX Research**

- Global Rates, FX & EM Year Ahead 2023 Year Ahead 2023: Pivot ≠ Peak, 20 Nov 2022
- Miracle on Main Street Global FX Weekly, 11 Aug 2023
- R\*s be our guide Global Rates Weekly, 11 Aug 2023
- The market bias against the USD, Liquid Cross Border Flows, 7 August 2023

## Rates, FX & EM trades for 2023

For a complete list of our open trade recommendations, as well as our trade recommendations closed over the past 12 months, see the reports below:

Global FX Weekly: Miracle on Main Street 11 August 2023

Global Rates Weekly: R\*s be our guide 11 August 2023

## **Analyst Certification**

I, Oliver Levingston, hereby certify that the views expressed in this research report accurately reflect my personal views about the subject securities and issuers. I also certify that no part of my compensation was, is, or will be, directly or indirectly, related to the specific recommendations or view expressed in this research report.



## **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 Prudentiel 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 Equities (Australia) Limited, regulated by the Australian Securities and Investments Commission; Merrill Lynch (Hong Kong): Merrill Lynch (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): Mexico): Merrill Lynch (Mexico): M 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, investment 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

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:

effectively assume currency risk.

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 informa

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**

#### Ralph Axel

Rates Strategist BofAS

+1 646 855 6226 ralph.axel@bofa.com

#### Paul Ciana, CMT

Technical Strategist

+1 646 855 6007

paul.ciana@bofa.com

#### John Shin

FX Strategist **BofAS** 

+1 646 855 9342

joong.s.shin@bofa.com

#### Vadim Iaralov

FX Strategist **BofAS** 

+1 646 855 8732

vadim.iaralov@bofa.com

#### Mark Cabana, CFA

Rates Strategist

BofAS

+1 646 855 9591 mark.cabana@bofa.com

#### Bruno Braizinha, CFA

Rates Strategist BofAS

+1 646 855 8949

bruno.braizinha@bofa.com

#### Meghan Swiber, CFA

Rates Strategist BofAS

+1 646 855 9877

meghan.swiber@bofa.com

#### Europe

#### Ralf Preusser, CFA

Rates Strategist

MLI (UK) +44 20 7995 7331

ralf.preusser@bofa.com

#### Ruben Segura-Cayuela

Europe Economist

BofA Europe (Madrid) +34 91 514 3053

ruben.segura-cayuela@bofa.com

#### Mark Capleton

Rates Strategist MLI (UK)

+44 20 7995 6118

mark.capleton@bofa.com

#### Athanasios Vamvakidis

FX Strategist

+44 020 7995 0279

athanasios.vamvakidis@bofa.com

#### Sphia Salim

Rates Strategist MLI (UK)

+44 20 7996 2227 sphia.salim@bofa.com

#### Kamal Sharma FX Strategist

MLI (UK) +44 20 7996 4855

ksharma32@bofa.com

#### Ronald Man

Rates Strategist

+44 20 7995 1143 ronald.man@bofa.com

#### Michalis Rousakis

FX Strategist

+44 20 7995 0336

michalis.rousakis@bofa.com

#### Pac Rim

#### Adarsh Sinha

FX Strategist Merrill Lynch (Hong Kong) +852 3508 7155 adarsh.sinha@bofa.com

#### Janice Xue

Rates Strategist Merrill Lynch (Hong Kong) +852 3508 8587 janice.xue@bofa.com

#### Shusuke Yamada, CFA

FX/Rates Strategist BofAS Japan

+81 3 6225 8515 shusuke.yamada@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.

