

Liquid Insight

Norges & Riksbank previews: Norges has more work left, but may take its time

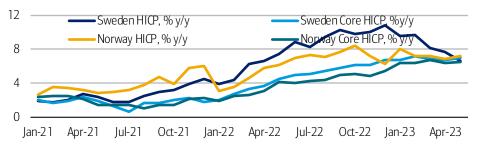
Key takeaways

- Norges: We expect 25bp this week, with risks of 50bp. Terminal at 4%, with risks for more and a flatter path.
- Riksbank: We expect 25bp next week. Faster QT likely. We see no more hikes later, but Bank will likely leave the door open.
- FX: The upcoming meetings pose modest downside risks to our bullish NOKSEK view. But central bank outlook still in support.

By Rob Wood and Michalis Rousakis

Chart of the day: Sweden vs Norway HICP inflation

Core inflation similar, but going forward we expect more persistence in Norway



Source: Statistics Norway, Statistics Sweden, Eurostat

Note: Norway's headline inflation affected by support scheme for electricity costs

BofA GLOBAL RESEARCH

Norges & Riksbank: 25bp, but Norges has more work left

We continue to see Norges hiking rate by 25bp this week. Hawkish data has raised the risk of a bigger, 50bp move, but we don't feel the arguments are convincing enough. We expect the central bank to raise its terminal to 4%, with risks of a higher terminal, and perhaps go "higher for longer".

We continue to expect Riksbank to slow down its hiking pace to 25bp next week. Riksbank could also speed up bond sales. Riksbank may indicate a chance of one more hike in September, but we are not sure if it will be delivered. We keep our terminal rate forecast at 3.75%, with risks still to the upside but more balanced than before.

We expect NOKSEK to recover further in the coming months and forecast 1.04 by year-end. While our relative monetary policy outlook for this year and next is the reason for our bullish NOKSEK view, our base case for the upcoming meetings given market pricing suggests modest downside risks to our long NOKSEK trade recommendation (entry April 28 at 0.9638, stop/loss 0.9280, current spot 1.0065, see Buy NOK/SEK 28 April 23).

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.

Bof A 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 7 to 9. Analyst Certification on page 6.

Timestamp: 21 June 2023 01:35AM EDT

21 June 2023

Rates and Currencies Research

Global Rates & Currencies Research

MLI (UK)

Robert Wood UK Economist MLI (UK) +44 20 7996 7415 robert.d.wood@bofa.com

Michalis Rousakis

FX Strategist MLI (UK) +44 20 7995 0336 michalis.rousakis@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

20-Jun-23	Too much Goldilocks for
	comfort
19-lun-23	Bank of England preview: lots to

do 15-Jun-23 <u>US rates, softer landing, &</u>

hawkish Fed

14-Jun-23 <u>The clock is ticking</u>13-Jun-23 <u>ECB Preview: still ground to cover</u>

12-Jun-23 <u>June FOMC Meeting: Skip to</u> assess lags

8-Jun-23 <u>Is inflation an existential threat to</u> the inflation-linked market?

7-Jun-23 Why is the EUR failing to rally?

6-Jun-23 <u>Bank of Canada preview – On</u> pause, but it is a close call

5-Jun-23 <u>Australia: RBA preview – Are we</u>

done yet?

BofA GLOBAL RESEARCH

Norges: 25bp, 4% terminal, likely flatter path, upside risks

We continue to expect Norges to hike rate by 25bp this week. Hawkish data has raised the risk of a bigger, 50bp move, but we don't feel the arguments are convincing enough.

Hawkish inflation, hawkish Regional Network Survey

On the one hand, inflation, both imported and domestically-generated, surprised clearly hawkishly (Exhibit 1), unemployment remains low, housing prices have retraced their last year's losses, and NOK is very weak, and weaker than Norges expected. Meanwhile, Norges Bank's widely watched Regional Network Survey showed higher wage growth expectations and improving growth (Exhibit 2).

Weak activity data, easing capacity constraints, some hawkish news expected

On the other hand, growth was surprisingly weak in the latest monthly data, with March also revised lower, with the overall outcome below Norges' expectations (Exhibit 3). Unemployment is indeed low but in line with Norges. Wage expectations in the Regional Network Survey were also broadly in line with Norges (+30bp vs Norges' forecast for this year, which we do not find that surprising after the wage agreement, but fully in line for next year). Capacity and labour supply constraints continued easing and are almost back to their average levels—in fact, capacity constraints are below the levels seen during the pandemic (Exhibit 4).

Hawkish newsflow meets Norges' gradualist approach

To be sure, we agree that a higher terminal rate is needed, but we think Norges will continue favoring a more gradualist approach, as outlined by Norges Bank Governor in May:

"Inflation is now markedly above the target. We could have raised the policy rate higher and faster than we have so far. Inflation might then have come down faster.

The reason we are taking a while to bring down inflation is that our job is also to contribute to high and stable employment. We do not want to restrain the economy more than that required to tame inflation." (Norges Bank Governor, "The conduct of monetary policy", 9 May 2023).

Bottom line - we expect Norges to react to the overall hawkish newsflow, not via a faster hiking pace, but via a higher and likely flatter interest-rate path. The central bank previously saw rates peaking at 3.60% in December with 2-3 rate cuts in the following 2 years. We expect it to raise its terminal-rate forecast to 4%, and to potentially move towards Riksbank's profile of holding at that level for a longer period. We see risks skewed to a higher terminal.

Risk - frequency of price adjustments and FX passthrough

A risk to the hiking pace is whether Norges' reaction function has changed. A detail perhaps overlooked in the Regional Network Survey is that contacts reported that they adjust selling prices more frequently than before the pandemic and react faster to the exchange rate. Also to the extent the monetary policy may affect the passthrough to prices, we judge that these findings could tilt Norges' reaction function to a hawkish direction.



Exhibit 1: Norway inflation and Norges' forecast (percent)

Currency likely explains a small part of inflation rise

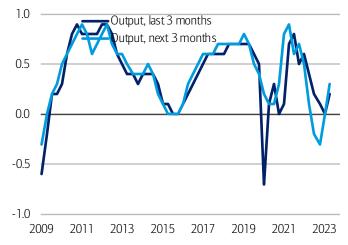


Source: BofA Global Research, Statistics Norway, Norges Bank. Note: We use Norges Bank projections for both CPI ex energy and the effective exchange rate

BofA GLOBAL RESEARCH

Exhibit 2: Regional Network Survey, aggregate activity data

2Q Regional Network Survey showed resilience and an improved outlook



Source: Norges Bank Regional Network Survey 2/2023

BofA GLOBAL RESEARCH

Exhibit 3: Norway monthly GDP and Norges' forecast

GDP weaker than Norges expected

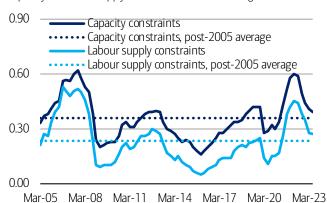


Source: BofA Global Research, Statistics Norway, Norges Bank

BofA GLOBAL RESEARCH

Exhibit 4: Regional network survey, capacity utilization and labour supply constraints

Capacity and labour supply constraints continued easing



Source: Norges Bank, Regional Network Survey 2/2023

BofA GLOBAL RESEARCH

Riksbank: 25bp next week and likely done

We continue to expect Riksbank to slow down its hiking pace to 25bp next week. It could also speed up bond sales.

We think the resilient activity & labour market data (Exhibit 5), the high ex-energy CPIF inflation (although just 10bp above Riksbank's forecasts, Exhibit 6), and SEK weakness will likely prompt the Riksbank to indicate a chance of another hike in September.

But we are not sure that Riksbank will actually deliver it, given Sweden's high rate sensitivity (already seen in household consumption and housing investment), which will likely help inflation pressures to continue moderating in the next months. Hence, we keep our terminal rate forecast at 3.75%.

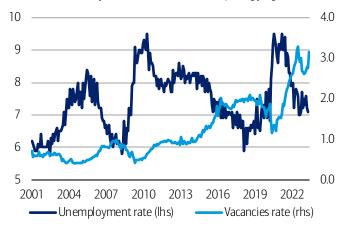


We now find risks more balanced than before (headline CPIF below Riksbank's forecast—see Exhibit 6—and May manufacturing PMI extremely weak—see Exhibit 7), we still think they are tilted to the upside because of SEK and, to this extent, the ECB.

With that said, our recent Stockholm fieldtrip suggested that Sweden's high rate sensitivity (Exhibit 8), tight fiscal policy, modest wage growth, and stable inflation expectations suggest that Riksbank may not need to match the ECB hikes one-for-one (Stockholm investor fieldtrip notes: hope is inflation falls fast 14 June 2023).

Exhibit 5: Sweden unemployment rate and vacancies

Vacancies rose in May. Labour market remains surprisingly tight

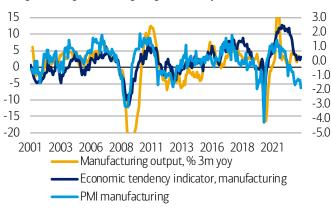


Source: BofA Global Research, Statistics Sweden. To estimate the May vacancy rate we use the April data for the size of the labour force.

BofA GLOBAL RESEARCH

Exhibit 7: Surveys vs. manufacturing growth

Sharp fall in PMI provides worrying signal, but PMI diverged from hard data, so hard to put much weight on it. Economic Tendency indicator remains stronger (although also not a great guide recently)

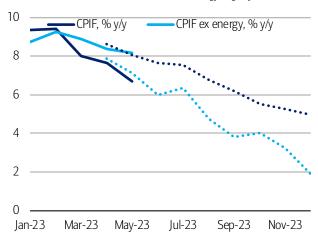


Source: BofA Global Research, Swedbank, National Institute of Economic Research

BofA GLOBAL RESEARCH

Exhibit 6: Swedish CPIF inflation

Headline below Riksbank forecasts but ex energy slightly above

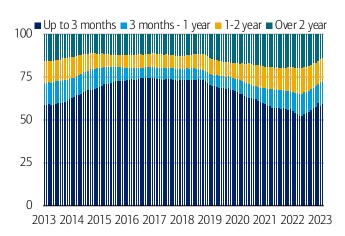


Source: Statistics Sweden, Riksbank. Dotted lines show Riksbank April forecasts.

BofA GLOBAL RESEARCH

Exhibit 8: Households' remaining fixed-interest periods, %

In Feb c27% of loans with 1Y+ remaining fixed-interest period and c14% 2Y+



Source: Statistics Sweden via Riksbank (Monetary policy Report, April 2023)

BofA GLOBAL RESEARCH

FX: NOKSEK higher, but meetings pose downside risks

We expect NOKSEK to recover further in the next months and forecast 1.04 by year-end. While our relative monetary policy outlook for this year and the next is the reason for our bullish NOKSEK view, our base case for the upcoming central bank meetings given current market pricing suggests modest downside risks to our long NOKSEK trade recommendation (entry April 28 at 0.9638, stop/loss 0.9280, current spot: 1.0065, see Buy NOK/SEK 28 April 23).



NOK - counting on oil and Norges

We remain constructive on NOK, expecting:

- (1) Higher oil prices, with our commodities team expecting Brent at US\$82/bbl in 4Q and US\$90/bbl in 2024 (<u>The battle royale between oil and money 5 June 23</u>). We expect China's outbound airline seats to approach 50% of their 2019 levels by 3Q (<u>ASEAN tourism</u>: into the final third 5 May 23).
- (2) A clearly more hawkish stance by Norges, following the hawkish inflation data and the Regional Network Survey. We see them raising their terminal to 4%, with risks for more (markets currently price the Norges terminal at c. 4.10%). We reiterate our view that Norges' gradual stance does not necessarily mean lower rates, and even if it does, it could mean fewer rate cuts later.
- (3) More favorable oil-related NOK flows in 2H by Norges and petroleum companies combined, given Norway's increased fiscal needs.

We expect EURNOK at 10.60 (USDNOK at 10.10) by year-end. But our bearish view on risk sentiment suggests (likely near-term) downside risks for NOK, esp. vs. G4 and CHF.

SEK - cautious at least through 3Q

Meanwhile, we remain cautious on SEK *at least* through 3Q, although we find it undervalued from a long-term perspective. In our base case, EURSEK is at 11.50 (USDSEK 10.95) in 3Q before it starts to fall in 4Q.

But SEK has already proven weaker vs. our bearish expectations. Still, we continue seeing risks for more and/or prolonged SEK weakness because:

- (1) We are concerned about the highly rate-sensitive Swedish households.
- (2) We see risks around the Swedish property markets, particularly commercial real estate.

And we are bearish on the global risk sentiment.

We think Riksbank is between a rock and a hard place until inflation starts falling meaningfully. Our more constructive view on SEK towards year-end partly reflects our economists' base case of inflation falling fast enough in the coming months. To this end, we are somewhat encouraged by the recent two-year wage agreement, the stable inflation expectations and, to some extent, the inflation data (more for headline, less for ex energy). But we are also mindful of the lags with which higher rates affect borrowers, as loan terms reset and maturities hit markets.

We think a lower Riksbank terminal relative to that of other central banks would initially be negative for SEK but, assuming this reflects lower inflation and not a "blinking" Riksbank, this could suggest upside risks for SEK later—by lowering "hard-landing" risks. To this end, until inflation, particularly core, starts falling meaningfully, the market will likely continue pricing "hard-landing" risks. And, if inflation proves overly sticky on its way down, Riksbank will not be in an enviable position at all.



Notable Rates and FX Research

- Global Rates, FX & EM Year Ahead 2023 Year Ahead 2023: Pivot ≠ Peak, 20 Nov 2022
- The second half of the year, Global FX Weekly, 16 June 2023
- No decisive drop, Global Rates Weekly, 16 June 2023
- On a wait & see mode..., Liquid Cross Border Flows, 12 June 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: The second half of the year 16 June 2023

Global Rates Weekly: No decisive drop 16 June 2023

Analyst Certification

I, Michalis Rousakis, 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 Inc, regulated by the Investment Industry Regulatory Organization of Canada; Merrill Lynch (Mexico): Merrill Lynch Mexico, SA de 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); is issued and distributed in 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 Securities entities, including BofA Securities

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

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.

