

US Watch

January FOMC: March is no longer the base case

Key takeaways

- The Fed needs "greater confidence" in the outlook for inflation. It all but ruled out a March cut.
- We push out our first rate cut to June. Risks to a "later and faster" policy easing cycle are rising.
- We also push out the timing of our expected QT slowdown announcement from March to May.

The Fed needs "greater confidence" to cut

The Fed says it has confidence in the outlook but needs "greater confidence" before it starts normalizing its policy stance. What constitutes greater confidence? More progress in reducing services inflation – and shelter inflation in particular – and slower wage growth.

March is no longer the base case

Powell significantly raised the bar for a March cut by saying, "I don't think it is likely that the committee will reach a level of confidence by the time of the March meeting" (to reduce the policy rate). Based on the outcome of the January FOMC meeting, we now look for the rate cut cycle to begin in June and expect 25bp rate cuts in June, September, and December. This would mean 75bp of rate cuts this year and we retain our view of 100bp of rate cuts in 2025.

We now push out the timing of our expected QT slowdown announcement from the March FOMC meeting to the May FOMC meeting. In addition to altering the timing of tapering, we also adjust the path of QT slowdown. We no longer expect a \$15b/m taper in the US Treasury redemption cap at each FOMC meeting. Instead, we now expect a reduction in the Treasury redemption cap from \$60b/m to \$30b/m and for this to remain open-ended. Our view is that it can remain at this level until end '24.

Market reaction

The rates market interpreted January FOMC communications as modestly hawkish. On balance, the Jan FOMC does not materially change our core rate market views. We still recommend clients trade duration tactically and with a bullish bias. Meanwhile, we now push out the timing of our expected QT slowdown announcement from the March FOMC meeting to the May FOMC meeting. This would see the first QT slowdown implemented in the month of May.

The FX market likewise took the Fed's message as hawkish, with the USD appreciating broadly yet modestly on the statement release. The press conference saw more 2-way price action, until Chair Powell's statement that they committee most likely won't be confident enough to cut in March, which lifted rates and added another leg higher in the USD.

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 6 to 8.

12653712

Timestamp: 31 January 2024 08:11PM EST

31 January 2024

Macro

United States

Michael Gapen

US Economist

BofAS

+1 646 855 3270

michael.gapen@bofa.com

Mark Cabana, CFA

Rates Strategist

BofAS

+1 646 743 7013

mark.cabana@bofa.com

Alex Cohen, CFA

FX Strategist

BofAS

+1 646 743 7015

alex.cohen2@bofa.com

US Economics

BofAS

Global Economics Rates & FX

BofAS

See Team Page for List of Analysts

US Economics

The statement: A de facto easing bias with hawkish notes

Changes to the January FOMC statement came in broadly as we anticipated, with the main change being the removal of upside policy rate guidance in favor of language that referred to considerations of “any adjustments to the target range for the federal funds rate”. This neutral language is a de facto easing bias given the Fed’s forecasts and communication that 2024 should be the year policy normalization begins.

That said, the language change we expected was complemented by some generally hawkish language. The statement now reads, “[t]he committee does not expect it will be appropriate to reduce the target range until it has ***gained greater confidence*** that inflation is moving ***sustainably*** toward 2 percent” (all bolded italics ours). While we took this as slightly hawkish against our expectation for a March rate cut, we looked to the press conference for further guidance on what the committee had in mind with this language choice.

The statement now notes that “[t]he committee judges that the risks to achieving its employment and inflation goals are ***moving into better balance***.” Elsewhere, the statement retained the language that “the committee remains ***highly attentive to inflation risks***.” These language choices are somewhat hawkish, though not unexpected since we doubt the committee would be convinced it can cut rates until risks to the outlook are more balanced, and the Fed did not cut rates in January. Hence, we did not expect this language to be altered. Notwithstanding this view, they add to the policy rate guidance that gave the statement a more hawkish tone than we expected overall.

The press conference: March is not the base case

Going into the meeting, we anticipated the Fed would begin reducing its policy rate in March. The beginnings of the press conference were very much in line with this view, in our opinion. Powell was asked what would mean the Fed had gained “greater confidence” and he replied that the Fed was already confident inflation was returning to 2% and that more of the same data was needed to get the Fed moving (not better data, but just more of the same). He said they had already received six months of good data on inflation and they needed that to continue.

In addition, he said the Fed does not necessarily need to see weaker growth to begin normalizing the policy rate. Similar to his communication in December, he implied the Fed does not need to see a period of below trend growth or weaker demand was needed to achieve the inflation target. He continually pointed to the substantial rebound in labor force participation and return of immigration as bringing important supply side effects to the US economy, boosting activity while providing room for wages and inflation to come down.

Regarding risks, he did note that a reacceleration in inflation was possible, but not likely in his opinion. He said the more likely risk is that inflation settles in at a level they view as inconsistent with their inflation mandate.

Then, Powell dropped a surprise on us and markets. When asked to respond to comments from some Regional Fed Presidents who have said it is premature to cut rates soon, Powell said, “[b]ased on the meeting today, I would tell you that I don't think it is likely that the committee will reach a level of confidence by the time of the March meeting to identify March as the time to do that” (begin cutting rates).

We find this communication odd and against the spirit of the Fed’s reaction function. Ruling out a rate cut in March is inconsistent with the Fed’s emphasis on data dependence and a meeting-to-meeting decision process. Nonetheless, when the chair essentially rules out a March rate cut twice in the same answer, we have to take the signal on board. We now no longer expect the rate cut cycle to begin in March.

So what does constitute “greater confidence”?

We think two interrelated factors led the Fed to signal a later start to the tightening cycle than we anticipated. First is the composition of disinflation, which has been driven mainly by deflation in goods amid a slower decline in services inflation. Hence, while we see current inflationary trends as justifying action in March, there may be enough voices on the committee that remain concerned about services inflation – and shelter inflation in particular – and wage growth to keep the Fed on hold for longer. Hence, we think achieving “greater confidence” requires (1) more evidence that services inflation is consistent with 2% outcomes in the event that goods price declines stop, and (2) a further slowing in wage growth to 3.5%.

Second, Powell may have more confidence about the outlook than does the committee as a whole. Our reading of the wordsmithing in the statement – which leaned hawkish – and the explicit reference to the components of inflation as indicating others on the committee do not have the same level of confidence. We don’t know for sure, of course, but it may be that regional Fed Presidents Barkin and Boskin, who rotated on as voters, remain unconvinced by the recent data flow.

...and no serious balance sheet discussion until March

What also came as a surprise to us was the lack of progress on balance sheet discussions. In response to a question on balance sheet policies, Powell said, “at this meeting we had some discussion of the balance sheet. We are planning to begin in-depth discussions of balance sheet issues at our next meeting in March. So, those questions are all coming into scope now, and we are focusing on them, but we are at the beginning of that process, I would say.” In other words, move along, there is nothing to see here.

Updated Fed outlook: June start to rate cuts and May start of taper

Based on the outcome of the January FOMC meeting, we now look for the rate cut cycle to begin in June and expect 25bp rate cuts in June, September, and December. This would mean 75bp of rate cuts this year and we retain our view of 100bp of rate cuts in 2025. In moving to this new baseline, we make the following comments:

- **A rate cut in March is not entirely off the table.** Should the labor market weaken abruptly, the Fed may be inclined to act in March. It just seems like more than inflation alone is now needed for a cut in March, despite Powell’s comments in the press conference today and in December that strong growth was not an impediment to reducing rates. We would place the odds of a March cut at around 30-40%. After all, y/y core PCE inflation is on track for 2.4% in March at current trends, and the 3- and 6-month annualized rates could be at 2.0% or below. Maybe the Fed can get there in March, but the bar seems higher and we have to take Powell’s statement at face value (though taking him at face value was what led us to put in the first rate cut in March after the December FOMC meeting).
- **May is on the table.** We did not move the first rate cut to May from March since there is only one inflation report between the two meetings and if the Fed has not seen enough by March, it is unlikely to see enough by May. That said, we think the committee prefers to take policy rate actions at meetings in which it provides new projections. Hence, we prefer leaning to June.
- **Risks are to “later and faster.”** Financial markets, in our view, are pricing in a policy error. Risk assets suffered immediately after Powell said March is not the baseline and markets are now pricing in virtually 100% probability of a 25bp rate cut at each FOMC meeting this year beginning in May. If the Fed wanted to reduce market expectations for easing, it failed. And markets apparently don’t agree with a gradual pace of rate cuts once the Fed starts. Markets may be saying the Fed needs to choose between “sooner and slower” and “later and faster.” For now it’s voting on the latter. We agree that risks to our new baseline tilt in this direction.



Powell's guidance suggests the FOMC is not ready to start slowing the pace of balance sheet runoff (quantitative tightening, or QT) as early as we previously thought, which would see the committee announce a QT slowdown at the March meeting.

We now push out the timing of our expected QT slowdown announcement from the March FOMC meeting to the May FOMC meeting. This would see the first QT slowdown implemented in the month of May. We continue to believe the ON RRP level will be the single most important determinant for when the Fed slows QT. Positive ON RRP balances likely suggest to the Fed there is excess cash in the financial system; ON RRP balances near zero likely reduces confidence around the extent of excess liquidity in the system. We continue to believe the FOMC will judge ON RRP balances in the \$200-250b level as low and likely warrant tapering. The recent pace of ON RRP reduction has moderated somewhat recently and we now expect ON RRP will reach near \$250b by end April, reinforcing a QT slowdown announced at the May FOMC meeting.

In addition to altering the timing of tapering, we also adjust the path of QT slowdown. We no longer expect a \$15b/m taper in the US Treasury redemption cap at each FOMC meeting. Instead, we now expect a reduction in the Treasury redemption cap from \$60b/m to \$30b/m and for this to remain open-ended. Our view is that it can remain at this level until end '24.

Overall, we have low confidence in how long the Fed will let securities roll off its balance sheet and acknowledge Fed QT will likely stop once either (1) fed funds & SOFR trade at or slightly above the interest on reserve balance (IOR) rate, or (2) macroeconomic data slows sharply to warrant Fed policy moving to an accommodative level. A QT slowdown may indeed allow for a longer period over which the Fed can reduce its balance sheet, in-line with recent comments from Dallas Fed President Logan.

US Rates: Market reaction

The rates market interpreted January FOMC communications as modestly hawkish. The initial hawkish interpretation was driven by an explicit signal on increased confidence required in inflation moving sustainable toward 2 percent before any rate cuts would be considered. The FOMC statement also removed the references to the US banking system being "sound & resilient" and tighter financial & credit conditions, which were seen as marginally hawkish. These statement changes initially caused interest rates to rise up to 6bps & curve to bear flatten.

In the FOMC press conference, the market was most focused on Chair Powell guidance that downplayed March rate cut odds. Specifically, Powell suggested "I don't think it is likely that the Committee will reach a level of confidence [on inflation returning sustainably to 2%] by the time of the March meeting". Following this comment market pricing for a March cut was reduced to <10bps or around 30-35%. The UST curve extended the bear flattening during the Powell press conference remarks.

On balance, the Jan FOMC does not materially change our core rate market views. We still recommend clients trade duration tactically and with a bullish bias. We remain comfortable recommending clients trade duration, using the 10Y as a proxy, between 3.75-4.25%. We continue to believe the US economy will moderate in coming months and that the Fed will be cutting by the June FOMC. We expect the trough of the rate cutting cycle to shift lower as the Fed nears their first cut. Re-emergence of banking sector concerns will further this tactically bullish rate bias.

FX: Market reaction

The FX market likewise took today's Fed statement as hawkish, with the USD appreciating broadly yet modestly on the statement release. The press conference saw more 2-way price action, until Chair Powell's statement that they committee most likely won't be confident enough to cut in March, which lifted rates and added another leg higher in the USD.

The USD, on net, was approximately 0.4%-0.7% higher vs. most G10 FX currencies consistent with the 4bp move in the 2yr UST and reduced pricing (OIS curve) of a March cut to about 30-35%. This followed some more notable swings in the USD earlier in the day as the market digested a below-consensus Employment Cost index and renewed small/regional bank concerns.

On the statement, the dollar found initial support from formal language that reflected a still upbeat view on the economy, suggested their policy goals (employment and inflation) were moving towards (but not fully in) better balance, and that they need greater confidence in the inflation outlook before cutting.

Stepping back from today's FOMC, we see FX markets, and the USD specifically, as most likely being driven by an eventual economic recoupling of the US lower towards the rest of the world, amid a soft-landing conditions. As such, while we see several G10 central banks (ex BOJ) also moving towards cuts in the coming months/quarters as inflation comes down, the eventual Fed cutting cycle should ultimately weigh on the USD through 2024 and into 2025. That said, this could take time to unfold, and the timing of this will still depend on the incoming growth/inflation data, as the Fed has stressed time and time again.



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.

Individuals identified as economists do not function as research analysts under U.S. law and reports prepared by them are not research reports under applicable U.S. rules and regulations.

Macroeconomic analysis is considered investment research for purposes of distribution in the U.K. under the rules of the Financial Conduct Authority.

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.bofam.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 (HKSF); 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 Canadian Investment Regulatory Organization; 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 HKSF; 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 prepared and issued by Merrill Lynch (DIFC) is done so in accordance with the requirements of the DFSA conduct of business rules. BofA Europe (Frankfurt) distributes this information in Germany and is regulated by BaFin, the ECB and the CBI. BofA Securities entities, including BofA Europe and BofASE (France), may outsource/delegate the marketing and/or provision of certain research services or aspects of research services to other branches or members of the BofA Securities group. You may be contacted by a different BofA Securities entity acting for and on behalf of your service provider where permitted by applicable law. This does not change your service provider. Please refer to the [Electronic Communications Disclaimers](#) for further information.

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 2024 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 information. Facts and views presented in this material that relate to any such proceedings have not been reviewed by, discussed with, and may not reflect information known to, professionals in other business areas of BofA Securities in connection with the legal proceedings or matters relevant to such proceedings.

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

US Economics

Michael Gapen

US Economist
BofAS
+1 646 855 3270
michael.gapen@bofa.com

Aditya Bhawe

US Economist
BofAS
+1 646 855 9929
aditya.bhawe@bofa.com

Stephen Juneau

US Economist
BofAS
+1 202 442 7429
stephen.juneau@bofa.com

Shruti Mishra

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

Jeseo Park

US Economist
BofAS
+1 646 855 8688
jeseo.park@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.

