

# Liquid Insight

# **USD** - Caveat Emptor

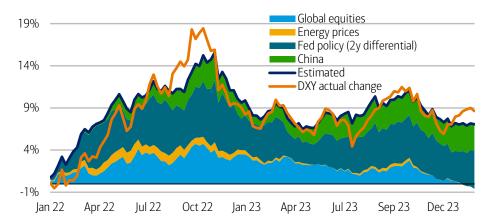
### Key takeaways

- DXY overshoot to fundamentals more meaningful compared to January; caution on USD longs especially vs. JPY.
- Divergence approaching Oct 22 and Jul 23 levels, which were associated with higher volatility than current implied levels.
- Tech stocks less important for G10 FX than broader equities; PBoC reaction function can amplify effect of Fed easing on USD.

### By Adarsh Sinha

Exhibit 1: DXY dollar index: 2022-to-date, actual vs. estimated

Divergence approaching Oct 22 and Jul 23 levels



Source: Bloomberg, Note: global equities = MSCI World, energy prices = BCOMEN Index, Fed policy = DXY weighted 2y rate differential, China = first PC across equity, credit, bonds, FX, iron ore

BofA GLOBAL RESEARCH

### Some observations on USD overshoot

In contrast to January, the DXY dollar index has diverged more meaningfully from its key drivers. Fed repricing has supported the dollar but offset by robust equities and some improvement in China sentiment. While carry is supportive, we caution against buying USD at current levels, especially vs. JPY, where there is risk of policy resistance. This divergence also implies upside risk to implied volatility. We show that while broader risk sentiment matters for G10 FX, the relative performance of technology stocks is less important. A strong negative correlation between US rates and China sentiment is symptomatic of the PBoC's reaction function, which in turn can amplify the impact of eventual Fed easing on 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 5 to 7. 12664879

Timestamp: 27 February 2024 11:44PM EST

28 February 2024

Rates and Currencies Research Global

**Global Rates & Currencies Research** 

Adarsh Sinha FX Strategist Merrill Lynch (Hong Kong)

+852 3508 7155 adarsh.sinha@bofa.com

lanice Xue

Emerging Asia FI/FX Strategist Merrill Lynch (Hong Kong) +852 3508 8587 ianice.xue@bofa.com

See Team Page for List of Analysts

### **Liquid Insight** Recent Publications

27-Feb-24

26-Feb-24

22-Feb-24 Rise of the super funds: structural tailwinds for the AUD 21-Feb-24 The G10 FX Jigsaw Puzzle 20-Feb-24 UK "ultra" linkers - Unloved Long-Term Real Assets? Time to <u>reevaluate</u> 19-Feb-24 Impact of a potential BoJ shift to a single-tier IOER structure post-15-Feb-24 US rates: patience on duration 14-Feb-24 Hedging MXN amid USD uncertainty 8-Feb-24 FX flows in '24 – half a step back 7-Feb-24 3 FX questions after a big macro

week 07 February 2024

Connecting (to) the dots

The difficult last inflation mile

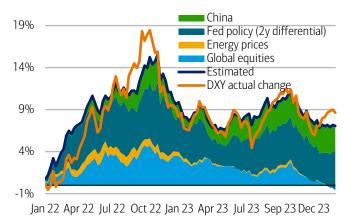
BofA GLOBAL RESEARCH

### DXY overshoot looks meaningful - caution on USDJPY

In January we argued the USD overshoot (relative to risk sentiment and rate differentials) was less dramatic than it first appeared (Global FX weekly 26 January 2024). This is no longer the case with our DXY framework showing the gap between actual and estimated levels approaching divergences observed in July 2023 and October 2022 (Exhibit 2).

While there has been meaningful repricing of Fed rate cuts since then, this was offset by robust equity performance and some improvement in China sentiment. This suggests caution against buying USD at current levels especially as the market may struggle to price in fewer cuts (<u>Liquid Insight 27 February 2024</u>). This is especially relevant for USDJPY: while we are structurally bullish, there is near-term downside risk from potential policy resistance from BoJ and MoF (<u>USD/JPY may face policy resistance in spring 27 February 2024</u>).

Exhibit 2: DXY dollar index: 2022-to-date, actual vs. estimated Increasing divergence between actual vs. estimated DXY levels...



**Source:** Bloomberg, Note: global equities = MSCI World, energy prices = BCOMEN Index, Fed policy = DXY weighted 2y rate differential, China = first PC across equity, credit, bonds, FX, iron ore

# Exhibit 3: DXY actual-estimated divergence (absolute) vs. 1m vol ... may eventually be associated with higher volatility 6 DXY, actual-estimated deviation, absolute, left, % G10 FX 1m implied volatility 12

BofA GLOBAL RESEARCH

Jan-23

May-23

Sep-23

Sep-22

Jan-22

Source: Bloomberg

May-22

### Overshoot implies higher vol

The overshoot described above also points to some upside risk to implied volatility (Exhibit 3). Low volatility has been the consequence of stable rate differentials due to a roughly uniform back up in rates across major economies. Exhibit 4 shows for instance the realized volatility of DXY weighted 5y differentials has fallen to its lowest level since early 2022 (Exhibit 4).

While central banks are striking a similar tone for now (rate cuts not imminent), the dispersion of data surprises has risen, partly driven by contrasting inflation data (Exhibit 5). In our view, a global easing cycle will be associated with higher rate differential/FX volatility (FX vol looks beyond recent US data 21 February 2024). While volatility curves are steep, the recent flattening offers opportunity to accumulate vol and/or hedge long-term exposure.

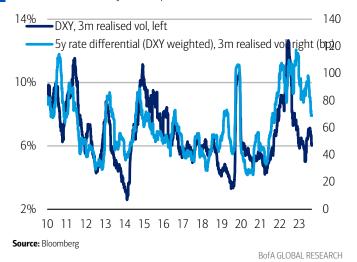
### Risk sentiment matters for G10, tech stocks less so

Risk sentiment (proxied by MSCI World) has a statistically significant relationship with DXY within our framework. But the relevance of technology stock performance is less clear – the strong NVIDIA results last week for instance had limited impact on FX. Exhibit 6 suggests the relative performance of tech stocks is less important than overall risk sentiment, with a few exceptions. The one year betas of major currencies (vs. USD) to the relative performance of NASDAQ vs. Dow Jones Industrials are mostly close to zero. KRW and TWD have statistically significant betas, both naturally influenced by technology exports as well as inflows to their tech-dominated stock markets. Within



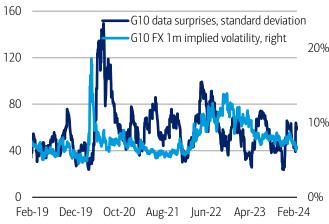
G10, NZD's high beta to relative tech stock performance is harder to explain but we remain bearish NZD crosses following the less hawkish RBNZ today (RBNZ review: Dovish turn in sight 28 February 2024).

Exhibit 4: Realised volatility - DXY vs. weighted 5y differentials Rate differential volatility has collapsed...



# Exhibit 5: G10 dispersion of data surprises vs. 1m vol





Source: Bloomberg

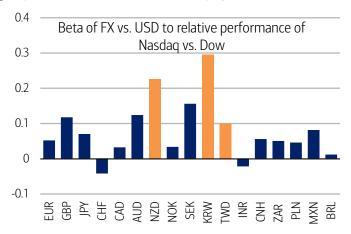
BofA GLOBAL RESEARCH

### China can amplify impact of US rates on USD

Signs of bottoming in China sentiment may cap the upside in USD. The larger-thanexpected 5yr LPR cut signaled intent to strengthen support for the property sector (China Watch 20 February 2024). While this is not yet evident in new home sales, the LPR cut should help restore some housing confidence in the near term. The PBoC has acknowledged that Fed rate cuts would provide room for further monetary easing by reducing FX pressure. This can amplify the impact of Fed policy on the USD, through its second-order effect on China policy and sentiment. Exhibit 7 shows this is already evident in the historically strong negative correlation between US rates and China sentiment.

### Exhibit 6: Beta of FX (vs. USD) to relative performance of Nasdaq vs. DJIA (one year lookback)

Only KRW, TWD and NZD betas are statistically significant



Source: Bloomberg, Note Betas show % move in FX associated with 1pp outperformance of Nasdaq vs. DJIA. Orange bars denote statistical significance of estimated betas

BofA GLOBAL RESEARCH

# Exhibit 7: Correlation of US rate differential with China sentiment

Impact of US rates on USD likely amplified by China channel



Source: Bloomberg

BofA GLOBAL RESEARCH



# **Notable Rates and FX Research**

- Global Macro Year Ahead 2024 Hope for the best, prepare for the worst, 19 Nov 2023
- Global Rates Year Ahead 2024 Cloudy with a chance of landing, 19 Nov 2023
- **G10 FX Year Ahead** The year of the landing, 20 Nov 2023
- <u>Dollar dependence</u>, **Liquid Cross Border Flows**, 19 Feb 2024

# Rates, FX & EM trades for 2024

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: Silver linings playbook 23 February 2024

Global Rates Weekly: Cut it out 23 February 2024



# **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 (Australia): Merrill Lynch (Hong Kong): Merrill (Hong Kong): Merr (Asia Pacific) Limited, regulated by the Hong Kong Securities and Futures Commission (HKSFC); Merrill Lynch (Singapore): Merrill Lynch (Singapore) Pte Ltd, regulated by the Monetary Authority of Singapore (MAS); Merrill Lynch (Canada): Merrill Lynch (Canada): Merrill Lynch (Canada): Merrill Lynch (Mexico): Merrill Ly 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 (I Financial Services Authority (DFSA); Merrill Lynch (Brazil): Merrill Lynch (S.A. Corretora de Títulos e Valores Mobiliários, regulated by Comissão de Valores Mobiliários; Merrill Lynch KSA Company: Merrill Lynch Kingdom of Saudi Arabia Company, regulated by the Capital Market Authority.

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

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



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

### General Investment Related Disclosures:

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

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

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

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

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

effectively assume currency risk.

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

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

### Copyright and General Information:

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

### Bruno Braizinha, CFA

Rates Strategist +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 MLI (UK) +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.

