

Asia FI & FX Strategy Watch

Double Trouble- Tariffs to weigh on Asia FX

Retaliatory tariffs add pressure to Asia FX

The much-anticipated Liberation Day of announced tariff policies by the Trump administration is worse than our expected baseline for Asia – See note: <u>Global Watch:</u> <u>Let's get ready to rumble 31 March 2025</u>. China would see its topline tariff on its exports to the US rise to 54%, following the announcement of a supplementary 34% reciprocal tariff.

Asian countries are especially targeted because of their high trade balance surpluses with the United States. Of the 56 countries listed for reciprocal tariffs, 20 are in the Asia/Oceania geography – see Exhibit 1. Additionally, Singapore is listed for 10% universal tariffs along with Türkiye, the UK and Chile. A simple average of the proposed tariffs on Asia shows 33%, which underestimates a higher GDP adjusted calculation for China.

The bottom line is that this would weigh on Asian currencies more than their EM peers. This is also very evident on the EUR/Asia FX crosses, given the EU's 20% tariff baseline was closer to market expectations than for Asia.

Where from here? Watching USD/CNY & central banks

The next natural focus will be on potential retaliation, especially from China. The previous pattern of behavior suggests China may announce its counter measures on April 9^{th} , when the US Liberation Day tariffs come into effect.

More immediately, the PBoC has allowed a higher USD/CNY daily fixing, suggesting a calibrated escalation and modest depreciation. China's FX strategy so far is to allow for a trade-weighted CNY depreciation by partly shadowing USD weakness and not adding to FX volatility with aggressive bilateral CNY weakness against the USD.

Other Asian central banks are likely to follow suit with FX smoothing of volatility, similar to how they reacted when President Trump won the election in November, forewarning tariff escalation.

Strategy implications: USD gives way to EUR crosses

Thus far, USD price action is unimpressive with the USD DXY index touching fresh lows for the year. The absence of safe-haven USD buying is helping Asia FX weather the negative consequences of the tariffs.

Nonetheless, it is important to keep an eye on the risks and evaluate the impact from a relative perspective. We maintain Asia FX would underperform relative to peers. In this context, CNY represents a funding currency and Asia FX will underperform relative to EUR. An alternative consideration would be long AUD, short CNY – see <u>Liquid Insight:</u> Retaliation after reciprocity: buy AUD/CNH 03 April 2025.

We maintain that SGD is vulnerable, despite escaping the worst of the tariffs, due to its highly open economy – see <u>EM Alpha: SGD - Shocking stuff. Enter dual digital 17 March.</u>

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. Analyst Certification on page 5.

Timestamp: 03 April 2025 02:58AM EDT

03 April 2025

GEM FI & FX Strategy Asia

Claudio Piron

Emerging Asia FI/FX Strategist Merrill Lynch (Singapore) +65 6678 0401 claudio.piron@bofa.com

Adarsh Sinha

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

Abhay Gupta

Emerging Asia FI/FX Strategist Merrill Lynch (Singapore) +65 6678 0427 abhay.gupta2@bofa.com

Janice Xue

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

Chun Him Cheung, CFA Emerging Asia FI/FX Strategist Merrill Lynch (Hong Kong) +852 3508 3644 chunhim.cheung@bofa.com

Glossary of terms

PBoC - People's Bank of China

CFETS – China Foreign Exchange Trading System

NEER – Nominal Effective Exchange Rate

For a complete list of our open trade recommendations, as well as our trade recommendations closed over the last 12 months, see: Global Emerging Markets Weekly: US exceptional downturn 20 March 2025

The Kitchen Sink Sinks in

At face value, the reaction of Asian currencies to the latest salvo of US tariffs appears modest, despite the worse than expected announcement. The THB is leading the depreciation with a measured 80bps loss against USD at the time of writing.

By contrast, SGD is flat against USD, following an initial sell-off, helped by its better correlation to EUR relative to other peers. The likelihood is that Asian central banks would stabilize their currencies, to calm volatility in what is already an uncertain trade environment.

USD/CNY fixing initiates depreciation.

More notable was the daily PBoC USD/CNY fixing at 7.1889, which represents a calibrated depreciation against the previous day's fixing of 7.1793. This is helping to push the CNY trade-weighted CFETS index lower, consistent with strategy of allowing for a trade-weighted depreciation and shadowing of USD weakness this year.

However, the PBoC would need to tread carefully with depreciation. The onshore spot CNY is trading 1.5% on the weak-side of its +/- 2% daily trading band. As it approaches the limit of band weakness, liquidity may need to be tightened to maintain the integrity of the trading band. Tightening liquidity at this juncture would be inopportune, as the economy needs greater monetary accommodation to support growth and rising bond issuance.

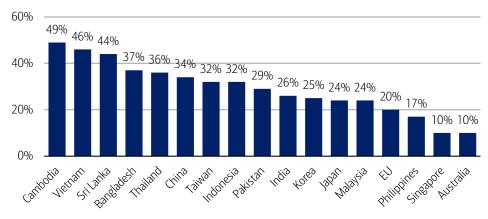
We maintain 2Q-end target of 7.50 USD/CNY, with an expectation of stabilization and modest appreciation, ultimately premised on trade negotiations taking place. However, there are upside USD/CNY risks in the event China and global growth takes a turn for the worse and China counter-stimulus does not materialize meaningfully.

China rates - FX dependent

China government bond (CGB) yields rallied 3-6bp in a bull-flattening fashion given the tariff rise was much larger than market anticipated and posed significant downside risk to growth outlook.

The future path of rates is largely contingent on the PBoC's reaction function. If the central bank continues to make FX stability as priority, then the room for cutting rates or easing funding condition could be limited in the near-term. On the other hand, if the PBoC starts putting greater focus on supporting sentiment and turns more dovish, yields would likely decline further, in our view.

Exhibit 1: Announced US reciprocal tariffs against key Asian countries and EU Asia is especially exposed to the reciprocal tariffs relative to its EM peers and the EU



Source: BofA Global Research

BofA GLOBAL RESEARCH



North Asia - KRW and TWD: No reprieve for friends

In North Asia, we expect TWD and KRW to continue their recent period of underperformance as these economies are more exposed to global trade than their EM peers. We continue to expect downward pressure on TWD and KRW NEER and HKD funding to loosen on the back off sell-off in Chinese equities.

Taiwan to be slapped with 32% in US tariffs

Taiwan's export to the US is heavily skewed towards advance electronic products and electronical components tied to the Al supply-chain. The announcement of 32% tariff on Taiwanese goods did include a clause where "semiconductors" are excluded.

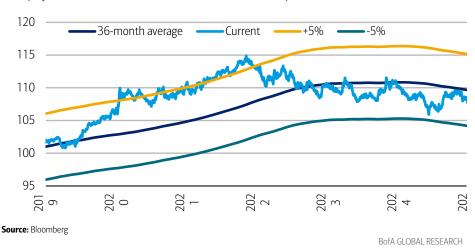
We will have to wait for the US administration's definition of what qualifies as "semiconductors" and how widespread this exclusion be on Taiwan's overall exports to the US.

The first-order impact of universal tariffs would be further sell-off in the NASDAQ, resulting in additional equity outflow and USDTWD to remain bid as foreign equity investors exit the local market. However, with the TWD NEER approaching closed to the weak-side (2.3% above) of the CBC's TWD NEER band, there may be increased official sector pushback against significant TWD depreciation.

We expect USDTWD to gradually move higher and TWD NEER to push lower within the CBC NEER band.

Exhibit 2: CBC valuation band for TWD NEER

Net equity outflows have resulted in TWD NEER to sell-off versus peer currencies



Korea is awaiting the outcome of the impeachment of the President, limiting scope for policy making

The US administration slapped 25% tariff on all Korean goods despite the US and Korea having a free trade agreement in which almost all goods (outside a few agricultural items) can enter each other's markets are tariff-free.

Korea is particularly vulnerable to the current trade war given the political uncertainty. The verdict to President Yoon's impeachment trail is set to be delivered on April 4th. According to Polymarket, the tail-risk of the charges of impeachment failing has risen to 25%-30% and the reinstatement of President Yoon may cause political paralysis that can further reduce investor and consumer confidence.

The KRW NEER has returned to the lows of Oct-2022 and we expect further KRW underperformance versus EM peers as Asia remains the epicenter in the current round of trade war. We expect heavy official sector intervention to keep USDKRW below 1,475.



Korea swap rates rallied by about 5bp across the curve and reached new ytd lows. Our economists estimated that the sharp rise in US tariffs from 0% to 25% on Korea exports could have a direct impact of 0.4ppt to Korea's GDP.

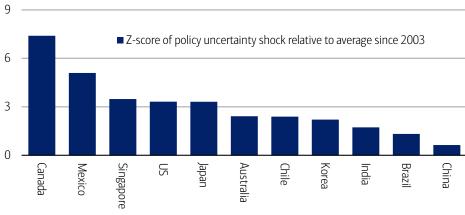
The recently proposed KRW10th supplementary budget by the government seems insufficient to mitigate the growth impact from tariffs. While more fiscal support might be delivered later this year, the BoK could face more urgency to cut rates and support sentiment in the near-term. We stay received for 3y KRW NDIRS (entry: 2.85%, spot: 2.5%, target: 2.45%, stop: 3.08%). Risk to the trade is delayed BoK cuts due to concerns on FX market volatility.

Hong Kong funding to further loosen as Chinese stocks sell-off

The imposition of 54% tariff on Chinese goods has sent Hong Kong-listed shares plummeting and our economist expect this increase in tariff would push China's 2025 growth from 4.5%., down towards 4%. The sell-off in Hong Kong-listed equities would reduce equity leverage and turnover. These would bias HIBOR lower, widening HK-US interest rate differentials and push spot USDHKD higher in the band. We continue to like receiving front-end HKD points.

Exhibit 3: Singapore shows the third highest uncertainty over policy.

The distance of current economic policy uncertainty indices away from their long-term average in standard deviation terms



Source: BofA Global Research, Macrobond, policyuncertainty.com

BofA GLOBAL RESEARCH

ASEAN/India – MYR, THB and SGD most exposed

Within ASEAN, MYR and THB would be most exposed to these tariffs due to larger net exports to US, higher tariff rates imposed and large exposure to global trade as proportion of GDP. Singapore's tariff rate was lower, but SGD policy is highly exposed to global trade cycle which could continue to weigh on SGD NEER – see Exhibit 3.

Weaker FDI flows over medium-term

Over medium-term, universal tariffs could negatively impact the investments into ASEAN region due to relocation from China. Indonesia, Malaysia, and to a lesser extent, Thailand have benefitted from this trend over the last few years and could see weaker FDI trends going ahead.

Some relief from USD beta and lower US rates

The immediate reaction to tariffs has resulted in a weaker USD against G10 FX and lower US rates. If market continues to price more Fed rate-cuts due to the negative growth impact of tariffs, it could provide some relief to countries which had seen high extent of USD demand and have accumulated large USD deposits over the last few years, including Indonesia, Malaysia, and Philippines.



Stronger EUR could also provide an offsetting support to bi-lateral exchange rates for high-beta currencies, including THB, MYR and to a lesser extent to the others. That may ease valuation concerns on INR, THB and MYR to some extent and reduce investor interest to positions for higher bi-lateral USD rates.

Reserves buffer to stabilize near-term pressure

FX reaction would also depend on central bank reaction functions and market perception of reserves adequacy. Most central banks have adequate reserves and have shown willingness to utilize them during such times. India, Indonesia, and Malaysia do have some an overhang of past interventions in the form of large short forward positions which could be a constraining factor over time. While central banks wish to maintain large negative forward positions to sterilize the intervention, market might see it as a negative signal in the form of future demand for USDs.

Rates - India, Thailand and Singapore with most room to rally

As downside risks to growth intensify, we see rates moving lower in most of ASEAN and India. Many central banks have cut rates over the past few months and markets have priced further easing over this year. Considering the market uncertainty and concerns about downside risks to growth, we see scope for markets to bring forward rate-cuts which could trigger further demand for duration.

India, Thailand, and Philippines bonds stand to benefit on that front as inflation has declined and growth is already soft. Singapore would benefit from higher correlation to US rates. Malaysia rates have been in a tight range for quite some time due to neutral monetary policy bias and strong growth. Domestic demand for Malaysian bonds remains strong and any signs of weaker activity could result in sharper rally and flattening of the curve. Indonesia's high real rates make it attractive as well, but cuts could be delayed until FX volatility declines.

Analyst Certification

I, Claudio Piron, 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.

Special Disclosures

Some of the securities discussed herein should only be considered for inclusion in accounts qualified for high risk investment.



Disclosures

Important Disclosures

Due to the nature of strategic analysis, the issuers or securities recommended or discussed in this report are not continuously followed. Accordingly, investors must regard this report as providing stand-alone analysis and should not expect continuing analysis or additional reports relating to such issuers and/or securities.

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 (Gustralia): 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 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; 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 (DIFC): Merrill Lynch (DIFC): Merrill Lynch (Brazil): M 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 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.

Certain investment strategies and financial instruments discussed herein may only be appropriate for consideration in accounts qualified for high risk investment.

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 2025 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. This document and its content is provided solely for informational purposes and cannot be used for training or developing artificial intelligence (AI) models or as an input in any Al application (collectively, an AI tool). Any attempt to utilize this document or any of its content in connection with an AI tool without explicit written permission from BofA Global Research is strictly prohibited. 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. Invest

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 sustainability in this material is limited as discussed herein and is not intended to provide a comprehensive view on any sustainability claim with respect to any issuer or security.

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.

