

Emerging Insight

CEE: hawkish surprises – take them seriously

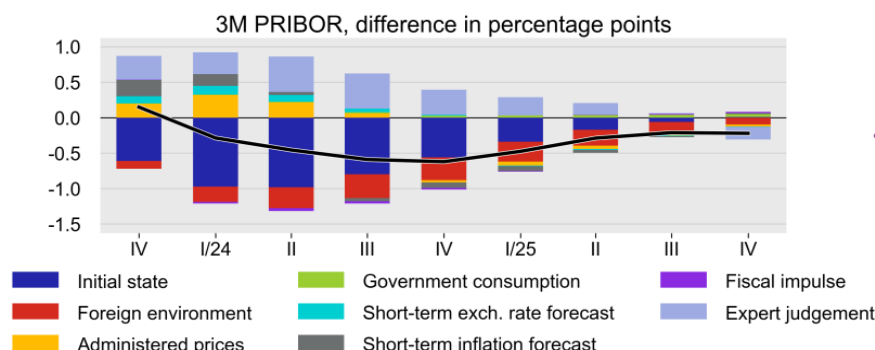
Key takeaways

- In Poland, we see no more cuts by NBP vs market pricing of over 100bp of easing next year. Higher rates should benefit PLN.
- In Czechia, we feel still weak sentiment in Prague for rate cut before Jan CPI. We delay first 25bp rate cut to February.
- Even with the delayed start to easing, CNB likely still reluctant to cut more than 25bp initially.

By Mai Doan

Exhibit 1: Czechia – breakdown of changes in CNB's interest rates forecasts

Rates much lower vs previous forecasts if excluding expert adjustments



Source: CNB

BofA GLOBAL RESEARCH

CEE in Focus

NBP done with easing, CNB in extended wait-and-see

In Poland, the NBP's on-hold decision on Wednesday marks a structural hawkish shift by Governor Glapinski. We now see a steady rates outlook at 5.75% through 2024. Higher rates would support the PLN. In Czechia, the sentiment in Prague following the CNB's on-hold decision suggests a still weak appetite to start the easing cycle soon. We push back our call for the first 25bp rate cut to February. We now have YE2023 policy rate at 7.0%, and maintain YE2024 forecast at 4.0%. Even with the delayed start to easing, we perceive a high reluctance by the CNB Board to cut more than 25bp initially.

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.

>> Employed by a non-US affiliate of BofAS and is not registered/qualified as a research analyst under the FINRA rules.

Refer to "Other Important Disclosures" for information on certain BofA Securities entities that take responsibility for the information herein in particular jurisdictions.

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.

12625354

Timestamp: 08 November 2023 05:00PM EST

08 November 2023

GEM Fixed Income Strategy & Economics
Global

Mai Doan

CEE/Israel Economist/Strategy
MLI (UK)
+44 20 7995 9597
mai.doan@bofa.com

David Hauner, CFA >>

Global EM FI/FX Strategist
MLI (UK)
david.hauner@bofa.com

Claudio Irigoyen

Global Economist
BofAS
claudio.irigoyen@bofa.com

See Team Page for List of Analysts

Abbreviations

NBP: National Bank of Poland
PiS: Law and Justice party
PO: Civic Platform party
CNB: Czech National Bank

NBP: on-hold decision marks structural hawkish shift

We believe that the NBP is done with easing, and now see a steady rates outlook at 5.75% through 2024. This hawkish shift from the ultra-dovish stance pre-election relates to the changeover in politics in the country, with a new PO-led coalition government taking over from mid-December. There are two key explanations for Governor Glapinski's motivation, in our view. First, Glapinski is very close to the outgoing PiS government, so he may now wish to be as least supportive to the incoming one as possible, by creating a less favourable condition for economic growth and budget financing via tight monetary policy.

Second, Governor Glapinski's likely increasing concerns about the threat by the left-wing politicians to bring him to the state tribunals probably emboldens his hawkish turn. PO's pledges for its first 100 days in the office include holding Glapinski accountable for "destroying the independence" of the NBP and "failing to implement the basic task" of fighting inflation. This call is echoed by several other politicians on the left. While we do not yet see any more concrete plan by the incoming coalition on this, the fear may be growing within the central bank as the power change is drawing closer, just about a month away.

NBP-government conflict unwelcome, PLN still net benefit from higher rates

Higher NBP rates would support the PLN, while the likely tensions between the central bank and the government may bring uncertainty that would undermine investors' sentiment – net we still see a positive impact for the PLN. The market is still pricing in over 100bp of rate cuts by YE2024 following the Wednesday's surprise on-hold decision vs our high conviction call that the NBP is done with cutting. Further pricing out of such significant easing expectations should benefit the PLN materially. We remain paid in 1y swap rates, and long PLN. See [EM Alpha: Go long PLNCZK](#) and [EM Alpha: pay 1y in Poland as a spread to 1y euro](#).

Any attempt by the government to remove the central bank's governor is generally not welcome by the markets. As long as the central bank conducts policy in an orthodox manner, the new administration is likely better off focusing on the budget and EU funds issues to build confidence in its electorate and the markets. Removing Glapinski in the next one and a half years would not bring any improvement to the relationship between the government and the central bank. The appointment of the Governor of NBP needs the approval of President Duda (from PiS), whose term lasts until spring 2025. And until a new Governor is appointed, the NBP will be run by the First Deputy Governor, who is a close associate of Glapinski. Uncertainty in the NBP leadership, and thus monetary policy, could bring market discomfort that hurts the PLN.

In case the new government decides to follow through with its pledges on Glapinski, we think it would take time to affect market sentiment, probably well into 2024 when it is more tangible that Glapinski would be suspended from his duties.

Macro justifies no rate change

Poland's monetary policy outlook has now become more consistent with the elevated inflation profile and solid growth prospects. The NBP in its new Inflation Report revises down 2024 average inflation to 4.7% from 5.2%, but raising 2025 CPI to 3.8% from 3.6%. The central bank is more optimistic on the GDP outlook, seeing 2024 growth at 2.9% and 2025 at 3.6%, from 2.4% and 3.3%, respectively. The statement introduces fiscal and regulatory price risks as the new hawkish arguments. The NBP also notes signal of "gradual recovery" in the economy, likely reflecting the message of the latest NBP's survey of the enterprise sector. The survey, which is highly valued by the central bank, notes that companies expect an improvement in 4Q in demand conditions, with the index of quarterly demand forecasts positive for the first time in since 3Q 2022.

CNB: wait-and-see mode extends

The sentiment in Prague following the CNB's surprise on-hold decision on 2 November suggests a still weak appetite to start the easing cycle without some visibility on the January CPI – we thus push back our call for the first 25bp rate cut to the February meeting. We now have YE2023 policy rate at 7.0% (from 6.75% previously), and maintain YE2024 forecast at 4.0%. Even with the delayed start to easing, we perceive a high reluctance by the CNB Board to cut more than 25bp initially. In addition, with January CPI likely not due until mid-February, there is likely a strong wish by the Board to have the February meeting on the 8th or the 15th. Our new rates forecasts and a likely later February decision support our [FRA flattener recommendation in Czechia](#). The risk to our call is some substantial downside to November-December inflation, which the CNB expects around 7%.

Dovish staff forecasts...

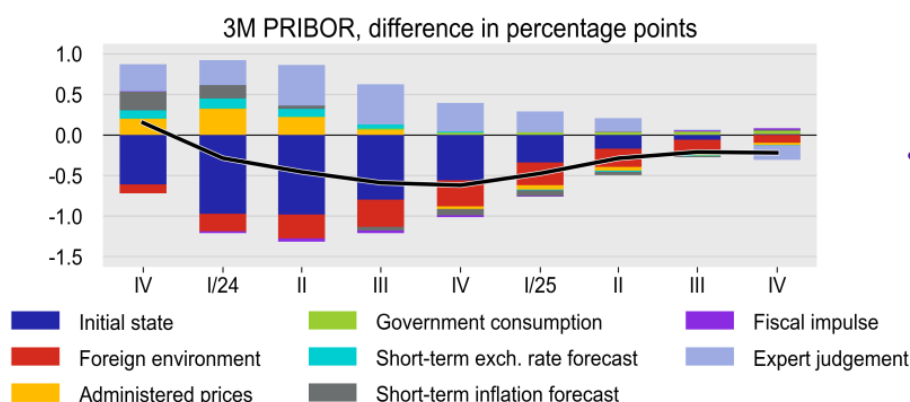
The Autumn Monetary Policy Report (MPR) send a dovish message, in our view. The staff notes that “the moment at which continuing with the current monetary policy stance would have an **excessively tight effect** has moved closer”. Indeed, the interest rate profile is revised down by 0.5pp on average in 2024, and it would have been lower if it were not for c.40bp of positive expert adjustments (Exhibit 2). Headline inflation was upped by c.0.4pp on average in 2024, due mainly to higher administered prices. But core CPI is seen lower, by 50bp, to 3% in 2024. The downward revision to GDP and wage growth was substantial, by more than 1pp for next year, implying markedly weaker demand and cost push pressures from the domestic economy than the CNB's previous expectations.

...but policy makers still focus on reasons to delay cuts

The CNB's alternative scenario of unchanged rates is likely a signal that the Board is keen to wait for the January CPI. The scenario assumes inflation higher by 1pp in January vs the baseline, for which monetary policy responds with no rate cuts until end-1Q 2024. The rates path then shows around 50bp easing in 2Q 2024 and 100bp in 3Q 2024 – this may reflect the Board's preference to start the easing cycle with small, 25bp steps rather than a big 'catch-up' move. The tone of the analyst meeting suggests to us that the Board is still focusing more on finding reasons to delay the first cut, which should not be debatable at this stage in view of the macro backdrop and the staff forecasts.

Exhibit 2: Czechia – breakdown of changes in CNB's interest rates forecasts

Rates much lower vs previous forecasts if excluding expert adjustments



Source: CNB

BoFA GLOBAL RESEARCH

News and Views

Brazil: IGP-DI increases 0.51% mom in October, in line with expectations

David Beker

+55 11 2188 4371

Natacha Perez

+55 11 2188 4127

IGP-DI registered a 0.51% mom change in October (vs 0.45% mom in September), in line with market (0.54%) and our (0.50%) expectations. In the print, all three components accelerated. Wholesale prices increased 0.57% mom (from 0.51% mom in September), with cattle (8.33% mom) and iron ore (2.81% mom) being the main upward drivers. On the consumer side, the hike of 0.45% mom (vs -0.22% mom previously) was led by Education, Reading and Recreation (4.07% mom, vs 1.34% mom). For construction, prices continue to contribute to the upside (0.20% mom, vs 0.34% mom). In 12-months, IGP-DI accumulated -4.27% (vs. -5.34% in September).

- **To follow:** We expect a gradual acceleration of inflation, mainly in annual metrics due to base-effect.

Brazil: Public Sector primary deficit reached 1.0% of GDP in September

David Beker

+55 11 2188 4371

Natacha Perez

+55 11 2188 4127

The public sector posted a R\$18.1bn primary deficit in September (from a R\$22.8bn deficit in August), according to the Brazilian Central Bank (BCB). The result was well below market expectation of a R\$11.2bn surplus. The Central Government contributed with a R\$16.6bn deficit (vs R\$26.2bn in August), while regional governments and state-owned companies posted deficits of R\$1.1bn (vs -R\$2.5bn previously) and R\$0.5bn (-R\$0.9bn) – respectively. The surprise came from the uncertainty on whether the Central Bank would recognize the BRL 26 billion from PIS/Pasep as a primary result, as the Treasury did. Apart from this difference, the result would have been much closer to the consensus.

In 12 month accumulated terms, the primary deficit rose to R\$101.9bn (0.97% of GDP), from R\$73.1bn in August (0.70% of GDP), while the nominal deficit went to R\$801.6bn (7.62% of GDP, from 7.30%). Gross debt/GDP remained stable at 74.4% of GDP compared to previous month; with net debt moving slightly up to 60.0% of GDP (from 59.9%).

- **To follow:** We expect a public sector primary deficit of 0.8% of GDP by 2023YE, with the gross debt to GDP ratio at 76.1%.

Brazil: Core Retail Sales above estimates in September

David Beker

+55 11 2188 4371

Natacha Perez

+55 11 2188 4127

September Core Retail Sales increased by 0.6% momsa (from -0.1% momsa in August), above market expectations (0.0%). In the month, the main upward pressure come from Furniture and home appliances (2.1% momsa, vs -2.0%). Despite the positive result, 5 out of 8 groups posted monthly negative prints. In yoy terms, sales were up by 3.3% yoy (from 2.4% yoy). Meanwhile, broad sales, which includes Building Materials, Vehicles and wholesale food items, were up by 0.2% momsa (from 0.6% in August). In yoy terms, Broad sales decelerated to 2.9% yoy (from 3.7% yoy).

- **To follow:** For October, our preliminary forecast for core retail sales is running at 1.9% momsa.

Special Disclosures

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



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 Investment Industry Regulatory Organization of Canada; Merrill Lynch (Mexico): Merrill Lynch Mexico, SA de CV, Casa de Bolsa, regulated by the Comisión Nacional Bancaria y de Valores; Merrill Lynch (Argentina): Merrill Lynch Argentina SA, regulated by Comisión Nacional de Valores; BofAS Japan: BofA Securities Japan Co., Ltd., regulated by the Financial Services Agency; Merrill Lynch (Seoul): Merrill Lynch International, LLC Seoul Branch, regulated by the Financial Supervisory Service; Merrill Lynch (Taiwan): Merrill Lynch Securities (Taiwan) Ltd., regulated by the Securities and Futures Bureau; BofAS India: BofA Securities India Limited, regulated by the Securities and Exchange Board of India (SEBI); Merrill Lynch (Israel): Merrill Lynch Israel Limited, regulated by Israel Securities Authority; Merrill Lynch (DIFC): Merrill Lynch International (DIFC Branch), regulated by the Dubai Financial Services Authority (DFSA); Merrill Lynch (Brazil): Merrill Lynch S.A. Corretora de Títulos e Valores Mobiliários, regulated by Comissão de Valores Mobiliários; Merrill Lynch KSA Company: Merrill Lynch Kingdom of Saudi Arabia Company, regulated by the Capital Market Authority.

This information: has been approved for publication and is distributed in the United Kingdom (UK) to professional clients and eligible counterparties (as each is defined in the rules of the FCA and the PRA) by MLI (UK), which is authorized by the PRA and regulated by the FCA and the PRA - details about the extent of our regulation by the FCA and PRA are available from us on request; has been approved for publication and is distributed in the European Economic Area (EEA) by BofASE (France), which is authorized by the ACPR and regulated by the ACPR and the AMF; has been considered and distributed in Japan by BofAS Japan, a registered securities dealer under the Financial Instruments and Exchange Act in Japan, or its permitted affiliates; is issued and distributed in Hong Kong by Merrill Lynch (Hong Kong) which is regulated by 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.

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 2023 Bank of America Corporation. All rights reserved. iQDatabase® is a registered service mark of Bank of America Corporation. This information is prepared for the use of BofA Securities clients and may not be redistributed, retransmitted or disclosed, in whole or in part, or in any form or manner, without the express written consent of BofA Securities. BofA Global Research information is distributed simultaneously to internal and client websites and other portals by BofA Securities and is not publicly-available material. Any unauthorized use or disclosure is prohibited. Receipt and review of this information constitutes your agreement not to redistribute, retransmit, or disclose to others the contents, opinions, conclusion, or information contained herein (including any investment recommendations, estimates or price targets) without first obtaining express permission from an authorized officer of BofA Securities.

Materials prepared by BofA Global Research personnel are based on public information. Facts and views presented in this material have not been reviewed by, and may not reflect information known to, professionals in other business areas of BofA Securities, including investment banking personnel. BofA Securities has established information barriers between BofA Global Research and certain business groups. As a result, BofA Securities does not disclose certain client relationships with, or compensation received from, such issuers. To the extent this material discusses any legal proceeding or issues, it has not been prepared as nor is it intended to express any legal conclusion, opinion or advice. Investors should consult their own legal advisers as to issues of law relating to the subject matter of this material. BofA Global Research personnel's knowledge of legal proceedings in which any BofA Securities entity and/or its directors, officers and employees may be plaintiffs, defendants, co-defendants or co-plaintiffs with or involving issuers mentioned in this material is based on public 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 or 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

Asia FI/FX Strategy & Economics

Helen Qiao

China & Asia Economist
Merrill Lynch (Hong Kong)
+852 3508 3961
helen.qiao@bofa.com

Claudio Piron

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

Adarsh Sinha

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

Jojo Gonzales ^^

Research Analyst
Philippine Equity Partners
jojo.gonzales@pep.com.ph

Abhay Gupta

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

Pipat Luengnaruemitchai

Emerging Asia Economist
Kiatnakin Phatra Securities
pipat.luen@kcpfg.com

Mohamed Faiz Nagutha

Asia & ASEAN Economist
Merrill Lynch (Singapore)
mohamed_faiz.nagutha@bofa.com

Miao Ouyang

China & Asia Economist
Merrill Lynch (Hong Kong)
miao.ouyang@bofa.com

Xiaoqing Pi

China Economist
Merrill Lynch (Hong Kong)
xiaoqing.pi@bofa.com

Benson Wu

China & Korea Economist
Merrill Lynch (Hong Kong)
benson.wu@bofa.com

Ting Him Ho, CFA

Asia Economist
Merrill Lynch (Hong Kong)
tinghim.ho@bofa.com

Janice Xue

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

Kai Wei Ang

Asia & ASEAN Economist
Merrill Lynch (Singapore)
kaiwei.ang@bofa.com

EEMEA Cross Asset Strategy, Econ

David Hauner, CFA >>

Global EM FI/FX Strategist
MLI (UK)
+44 20 7996 1241
david.hauner@bofa.com

Mai Doan

CEE/Israel Economist/Strategy
MLI (UK)
mai.doan@bofa.com

Zumrut Imamoglu

Turkey & Israel Economist
MLI (UK)
zumrut.imamoglu@bofa.com

Vladimir Osakovskiy >>

EEMEA Sov.Credit/EQ strategist
Merrill Lynch (DIFC)
vladimir.osakovskiy@bofa.com

Jean-Michel Saliba

MENA Economist/Strategist
MLI (UK)
jean-michel.saliba@bofa.com

Merveille Paja

EEMEA Sovereign FI Strategist
MLI (UK)
merveille.paja@bofa.com

Mikhail Liluashvili

EEMEA Local Markets Strategist
MLI (UK)
mikhail.liluashvili@bofa.com

Tatonga Rusike

Sub-Saharan Africa Economist
MLI (UK)
tatonga.rusike@bofa.com

LatAm FI/FX Strategy & Economics

Claudio Irigoyen

Global Economist
BoFAS
+1 646 855 1734
claudio.irigoyen@bofa.com

David Beker >>

Bz Econ/FI & LatAm EQ Strategy
Merrill Lynch (Brazil)
+55 11 2188 4371
david.beker@bofa.com

Jane Brauer

Sovereign Debt FI Strategist
BoFAS
+1 646 855 9388
jane.brauer@bofa.com

Carlos Capistran

Canada and Mexico Economist
BoFAS
+1 646 743 2921
carlos.capistran@bofa.com

Pedro Diaz

Caribbean Economist
BoFAS
pdiaz2@bofa.com

Antonio Gabriel

Global Economist
BoFAS
antonio.gabriel@bofa.com

Christian Gonzalez Rojas

LatAm Local Markets Strategist
BoFAS
christian.gonzalezrojas@bofa.com

Lucas Martin, CFA

Sovereign Debt FI Strategist
BoFAS
lucas.martin@bofa.com

Alexander Müller

Andean(ex-Ven) Carib Economist
BoFAS
alexander.muller@bofa.com

Natacha Perez

Brazil Economist
Merrill Lynch (Brazil)
natachaperez@bofa.com

Sebastian Rondeau

LatAm FI/FX Strategist
BoFAS
sebastian.rondeau@bofa.com

Ezequiel Aguirre

LatAm FI/FX Strategist
BoFAS
ezequiel.aguirre2@bofa.com

BoFA Securities participated in the preparation of this report, in part, based on information provided by Philippine Equity Partners, Inc. (Philippine Equity Partners). ^^Philippine Equity Partners employees are

not registered/qualified as research analysts under FINRA rules.

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.

>> Employed by a non-US affiliate of BoFAS and is not registered/qualified as a research analyst under the FINRA rules.

Refer to "Other Important Disclosures" for information on certain BoFA Securities entities that take responsibility for the information herein in particular jurisdictions.