

## Global FX weekly

## Positioning matters until it doesn't

**The View**

Long USD may be crowded but hardly sufficient for reversal in face of no landing, especially in US services. "Pressure cooker" conditions in USDCNY and USDJPY mean a more volatile dollar rally cannot be ruled out.

**Rates sell-off & USD rally in historical perspective**

Long-term trends in yields & FX, US policy mix and US exceptionalism explain recent rates sell-off and USD rally. What happens next depends on landing and what follows. Risks of high yields and strong USD post-landing, even if both lower than current levels.

**JPY: downside risk underpriced**

JPY vulnerable to rise in Middle Eastern oil price due to heavy reliance on supply from region. Twin deficit as Japan relies on subsidy rather than rate hikes to fight cost-push inflation. Risk underpriced with low vol and negative USD/JPY skew.

**EM outlook**

Sentiment at our Small Talks IMF meetings was poor, fiscal has taken over from inflation as the main worry.

**Asia FX**

We found rising US rates have a significant impact on Asia rates, FX, and equities indices, with Korea most sensitive.

**SGD**

MAS keeps FX settings unchanged, but signaled high hurdle for easing; core inflation (ex-GST) seen at 1.5-2.5% in 2024.

**Latam FX**

Receivers in BZ are seen as attractive but vol concerns remain. Mixed views on BRL. Equities: tax changes are a key risk.

**CIS FX**

NBK rate cuts should be delayed to 2024. Stay long KZT against an equal basket of EUR and USD (target 455, stop 535).

**FX too complacent to rising uncertainty**

FX vol lags cross-asset vol despite geopolitical risks; realized muted on lack of macro conviction. Risk-off most likely catalyst near-term. Weaker US data secondary.

**Technicals**

One of the biggest bottoms we've seen in a while has continued to form on BRLCLP. On watch for neckline breakout to signal uptrend into the 200s in 2024.

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 27 to 29. Analyst Certification on page 26. 12614215**

Timestamp: 20 October 2023 12:00AM EDT

20 October 2023

FX Research  
Global

**G10 FX Strategy**

MLI (UK)  
+1 646 855 9342

**Adarsh Sinha**

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

**Claudio Piron**

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

**Athanasios Vamvakidis**

FX Strategist  
MLI (UK)  
+44 20 7995 0279  
[athanasios.vamvakidis@bofa.com](mailto:athanasios.vamvakidis@bofa.com)

[See Team Page for List of Analysts](#)

# Our medium-term views

**Michalis Rousakis**

MLI (UK)

michalis.rousakis@bofa.com

**Claudio Piron**

Merrill Lynch (Singapore)

claudio.piron@bofa.com

## Exhibit 1: Our medium-term views

G10 and EM FX medium-term views

<b>G10</b>	We continue to look for near-term USD upside despite finding it overvalued, with our year-end EUR/USD forecast remaining at 1.05. We see potential for further USD upside as "soft landing" coincides with US growth outperformance, while potential "hard landing" could also support USD should volatility re-emerge. Meaningful coordinated China stimulus is a downside USD risk. We expect a weaker and for longer JPY on carry and with Japan's net outward FDI refusing to shrink—we expect USDJPY to peak at 155 in 1Q '24. We remain of the view the BoE won't help GBP much near term, but a "high for longer" BoE could help GBP vs EUR later—we see EURGBP at 0.85 through our forecast horizon. CHF may have overshoot but will likely stay below parity this year, supported by the hawkish SNB policies. On the "high beta" G10 FX, we continue to favor CAD, AUD and NOK over NZD and SEK.
<b>EM</b>	Q3 was a difficult month for EM with only COP rallying in spot terms. USD/CNY continues to be caught between the central bank's resolve to stabilize CNY and a widening yield gap in favor of USD strength. The outcome will depend on China data and fiscal stimulus showing improvement and this assumption underpins our year end forecast for USD/CNY 7.20. We enter short SGD/KRW as a low beta proxy for improving prospects in Korea relative to NE Asia peers and remain short TWD due to a wider yield differential and weaker tech cycle. EUR weakness is weighing on EMEA FX, which has seen the biggest falls over in 3Q and we recently entered into a long USD/HUF and long EUR/ZAR to hedge against USD strength. In LatAm we remain bullish BRL and look for better levels to add long positions.

Source: BofA Global Research

BofA GLOBAL RESEARCH

# Our key forecasts

## Exhibit 2: Key BofA G10 and EM FX forecasts

Forecasts as of 19-Oct-2023

(EOP)	YE 2020	YE 2021	YE 2022	1Q23	2Q23	3Q23	YE 2023	YE 2024
EUR/USD	1.22	1.14	1.07	1.08	1.09	1.06	1.05	1.15
USD/JPY	103	115	131	133	144	149	153	142
GBP/USD	1.37	1.35	1.21	1.23	1.27	1.22	1.24	1.35
AUD/USD	0.77	0.73	0.68	0.67	0.67	0.64	0.64	0.71
USD/CNY	6.53	6.36	6.90	6.87	7.25	7.30	7.20	6.70
USD/BRL	5.20	5.58	5.29	5.06	4.79	5.03	4.90	5.10
USD/INR	73.07	74.34	82.74	82.18	82.04	83.04	82.00	80.00
USD/ZAR	14.69	15.94	17.04	17.80	18.85	18.92	18.50	17.50

Source: BofA Global Research. Forecasts as of 19-Oct-2023.

BofA GLOBAL RESEARCH

# What we particularly like right now

## Exhibit 3: Our latest G10 and EM FX trade recommendations

What we particularly like right now

<b>G10</b>	
<u>Buy EUR/SEK via 3-month collar</u>	We think SEK's recent rally mainly driven by rumours than fear of the Riksbank, and in defiance of fundamentals.
<b>EM</b>	
<u>long USD/HUF</u>	We go long USDHUF at 358.4 (target: 375, stop: 347, carry: circa -0.6% per month). The risk is a less dovish NBH and a weaker broader USD.
<u>Long USD/TWD</u>	We revised our 3Q23 USDTWD forecast to 31.9 and we recommend buying USDTWD 6m 25-delta call option
<u>Long EUR/ZAR</u>	We go long EURZAR at 20.15 (target: 21.15, stop: 19.6, carry: c. -0.4% pm). Global backdrop bad for EM => ZAR to weaken

For complete list of open trades, and those closed over the past 12 months, please see

[here](#)

# Calls at a glance

**Michalis Rousakis**

MLI (UK)

michalis.rousakis@bofa.com

## Thematic calls

- **Rates sell-off & USD rally:** What happens next depends on landing scenario. We see risks of high yields & strong USD post-landing, even if both below current levels
- **FX vol:** FX vol lags cross-asset vol moves despite higher geopolitical risks. Realized vols remain muted on lack of macro conviction
- **Oil:** We raise our 4Q23 Brent forecast to \$96/bbl and keep our \$90 2024 call
- **JPY:** Japan heavily reliant on Middle Eastern oil. USDJPY supported by Japan's deficit and carry. JPY downside risk under-priced, with low vol and negative USDJPY skew
- **Mortgage structure matters for monetary policy:** FX implications go against high beta currencies, because of faster policy transmission through housing
- **Flows & positioning:** FX markets in consolidation. USD flows have turned negative, EM flows have turned positive

## Central Bank calls

### Exhibit 4: G10 Central Bank calls

ECB and Bank of Canada are meeting next week

Country	Next Meeting	BofA	Consensus	Prior	Narrative
US	1-Nov	5.63%	5.38%	5.38%	Retail sales, CPI and jobs report keep our call for a Nov hike in play. But Fed guidance has tilted toward a pause and Powell's Oct 19 speech is key. We look for the first rate cut in June 2024, with QT to end at the same time but risks for a longer runoff period. Importantly, we look for quarterly 25bp rate cuts, for a total of 75bp of rate cuts in 2024 and 100bp of cuts in 2025.
Eurozone	26-Oct	4.00%	-	4.00%	We think the ECB is likely done and expect no rate cuts until June-24.
Japan	31-Oct	-0.10%	-0.10%	-0.10%	We remain comfortable with our recently-revised call that the BoJ will exit NIRP and remove YCC between Dec '23 – Apr '24, with our base case being Jan '24. The Sep meeting communications make a Dec move less likely.
UK	2-Nov	5.25%	-	5.25%	We expect the BoE to remain on hold and no rate cuts before 2025. We think risks skew to further hikes.
Canada	25-Oct	5.00%	5.00%	5.00%	We maintain our call the BoC will remain on hold in October, but upside risks increased after the Sep labor report.
Australia	7-Nov	4.10%	-	4.10%	With near-term upside risk to CPI on the back of higher energy prices and downside risks to growth (particularly in the consumer sector), we think the RBA will remain on hold for the remainder of the year.
New Zealand	29-Nov	5.50%	-	5.50%	So far, growth has been stronger than the RBNZ's assumptions while inflation is slightly softer. We see the RBNZ on hold in November and cuts from 3Q 2024.
Switzerland	14-Dec	1.75%	-	1.75%	The next rate move by the SNB will be a cut, in our view, but not before Sep-24, i.e. after the ECB, we think. In the meantime, CHF will remain the instrument of choice, with a bias towards gentle tightening.
Norway	2-Nov	4.25%	-	4.25%	We look for a 4.50% terminal, expecting a final Norges hike in Dec. We expect two rate cuts in 2024.
Sweden	23-Nov	4.00%	-	4.00%	We expect the Riksbank to stay on hold amid a weakening growth outlook although SEK poses some upside risks. We look for 3 rate cuts in 2024. Overall, we somewhat downside risks to our Riksbank forecast profile.

Source: BofA Global Research, Bloomberg consensus forecasts as of 19-Oct-2023.



# The view

**Adarsh Sinha**

Merrill Lynch (Hong Kong)

adarsh.sinha@bofa.com

## Most crowded trade: long USD?

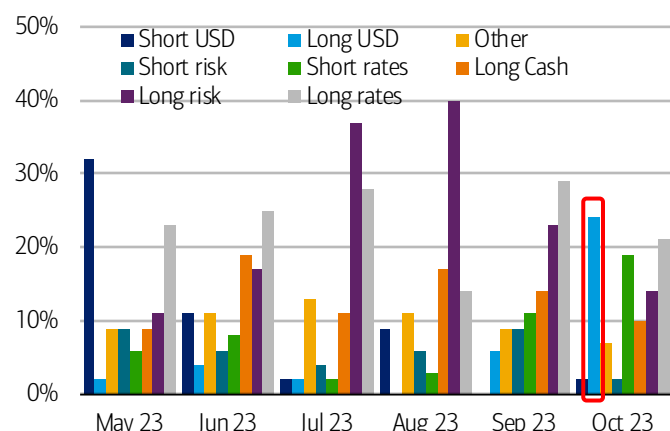
The muted reaction of USD FX to strong US retail sales contrasted with the rates sell-off this week, raising the usual concern of crowded positioning. This aligns with our FX and Rates Sentiment Survey showing USD longs are perceived as the most crowded trade for this first time this year (Exhibit 5, [FX and Rates Sentiment Survey 13 October 2023](#)). The survey also shows USD bull-bear exposure is close to multi-year highs. The fact that spot-volatility correlation for DXY has turned negative is consistent with heavier positioning (USD sell-offs more volatile than rallies, [FX Watch 18 October 2023](#)).

## Payback for September overshoot

A related interpretation is USD had overshoot rate differentials on the way up and this week's price action represented some convergence. This is evident in our key driver framework for DXY, which shows the September rally exceeded what was implied by 2y rate differentials and other factors (Exhibit 6). This may have constrained its response to strong US data in October. Simply put, the good news is priced in, at least for now, and consistent with crowded positioning.

### Exhibit 5: What is the most crowded trade?

Long USD beats the pack for the first time

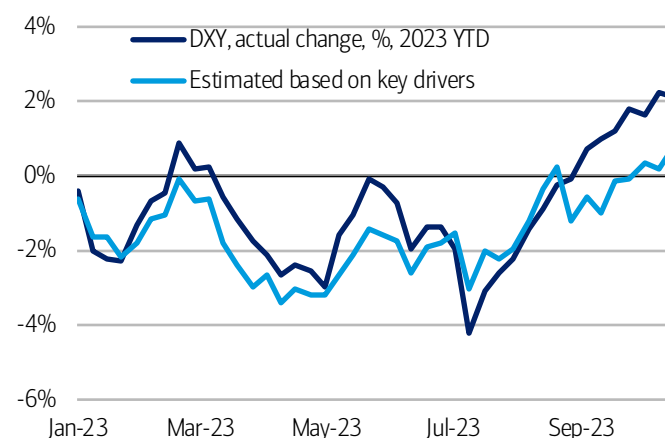


Source: BofA FX & Rates Sentiment Survey

BofA GLOBAL RESEARCH

### Exhibit 6: DXY, actual vs. estimated, 2023 YTD

DXY overshoot its key drivers in September, some convergence in October



Source: Bloomberg. Note: Key drivers include China - reflation PCA, Fed policy - 2y rate differentials, Energy prices - BCOMEN Index, Global equities - MSCI World

BofA GLOBAL RESEARCH

## But positioning ≠ peak

That said, positioning matters until it doesn't. The pain trade may be weaker USD but the trigger (US slowdown vs. rest of the world) is absent. US services vs manufacturing may help identify a turn, with manufacturing more exposed to external demand than services that are largely non-tradable. A relative deterioration in services would be symptomatic of weaker US domestic demand vs. the rest of the world. Exhibit 7 shows this had correlated with medium-term USD dynamics. Even in absolute terms, the service sector is critical for US rates, accounting for much of the recent strength in jobs, inflation and consumer spending. Peak USD is unlikely until we see deceleration in US services.

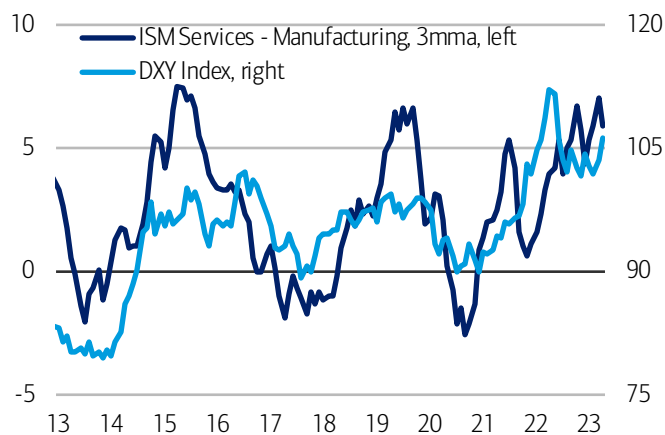
## Pressure cooker conditions in USDCNY & USDJPY

Meanwhile, USD strength is adding to policy headaches for several countries that may have been hoping for a reversal to ease the burden. But hope is not a strategy and if USD continues to strengthen, central banks may have no choice but to accommodate

weaker currencies. The low volatility of CNY and JPY belies “pressure cooker” like conditions created by active FX management – effectively pegging USDCNY fixings below 7.20 and the perceived risk of USDJPY intervention. With USDCNH trading >2% above the fixing (Exhibit 8) and USDJPY within touching distance of 150, FX policy resolve will be tested over the coming week. Even if intervention is resolute, it risks a vicious cycle of amplifying the UST sell-off (central bank sales to fund intervention) leading to a stronger USD and further intervention. Despite subdued price action in these pairs so far, a more volatile USD rally cannot be ruled out.

#### Exhibit 7: ISM Services – Manufacturing differential vs. DXY

Service sector outperformance typically associated with stronger USD

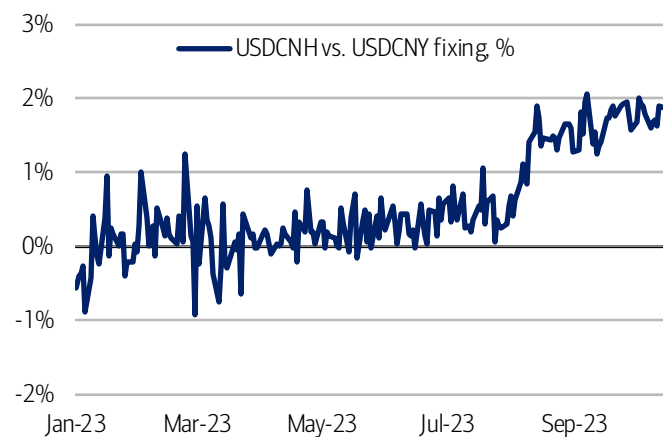


Source: Bloomberg

BofA GLOBAL RESEARCH

#### Exhibit 8: USDCNH vs. onshore USDCNY daily fixing

Offshore CNH trading weaker than 2% band around fixing



Source: Bloomberg

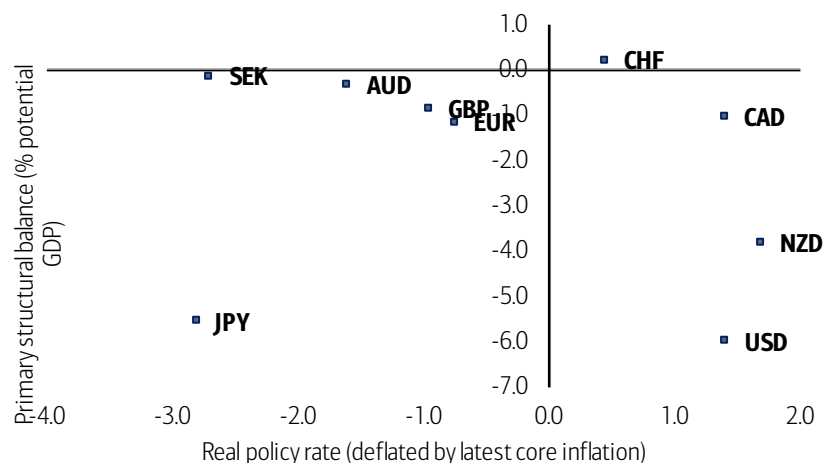
BofA GLOBAL RESEARCH

# The rates sell-off and the USD rally in a historical perspective

Link to the full report: [Liquid Insight: The rates sell-off and the USD rally in a historical perspective 19 October 2023](#)

## Exhibit 9: G10 monetary policy and fiscal policy stance, 2023

A Mundell Fleming model predicts strong USD on the back of tight monetary policy and loose fiscal policy



Source: BofA Global Research.

BofA GLOBAL RESEARCH

## Reliving history

Long-term trends in yields and FX, the current US policy mix of tight monetary and very loose fiscal and US exceptionalism help explain the recent rates sell-off and the USD rally. What happens next depends on the landing scenario and how sticky inflation will be during landing, affecting the USD both through rates and risk sentiment. In the longer term, we see risks of yields remaining relatively high and the USD strong compared with recent history, even if both lower than current levels.

**Exhibit 10: US 10-year yields, 1970-latest**

A series of positive and negative shocks and the Fed reaction to them explain the US 10-year yield trends and shifts since 1970

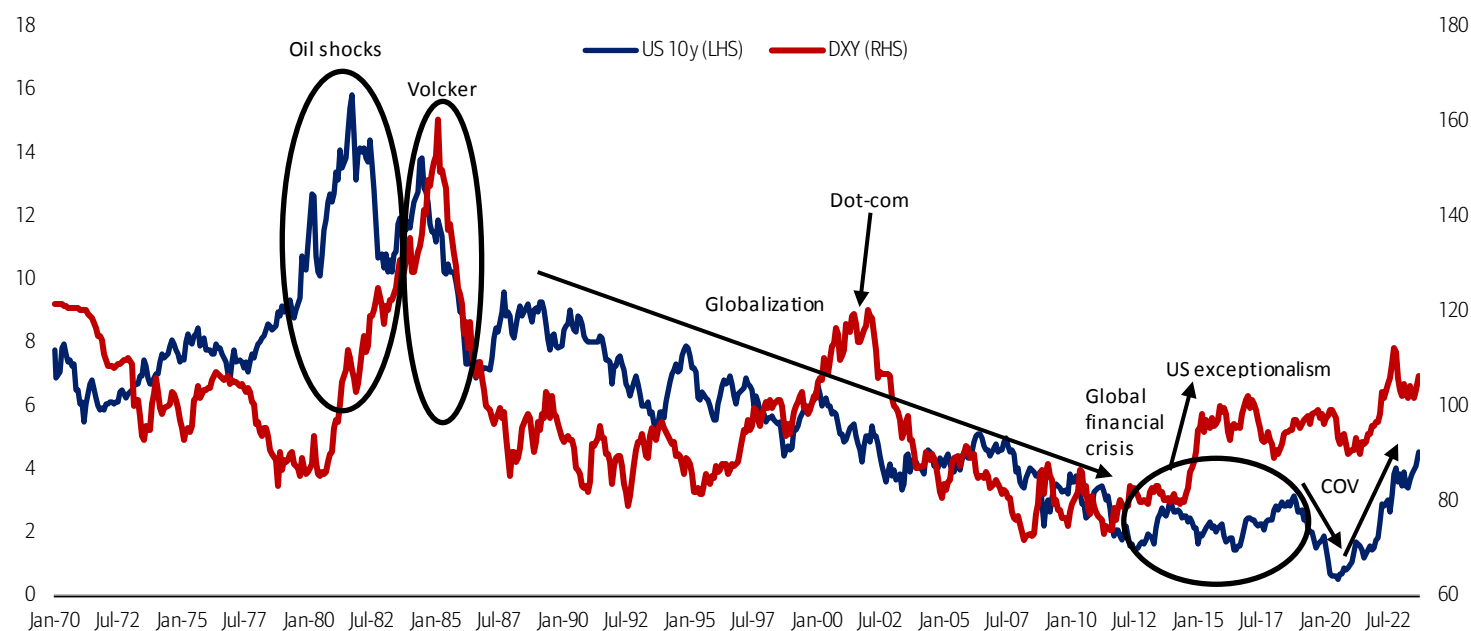


Source: Bloomberg, BofA Global Research

BofA GLOBAL RESEARCH

**Exhibit 11: US 10-year yields and DXY, 1970-latest**

DXY and US yields have moved consistently over the decades, unless when the Fed not credible or US exceptionalism

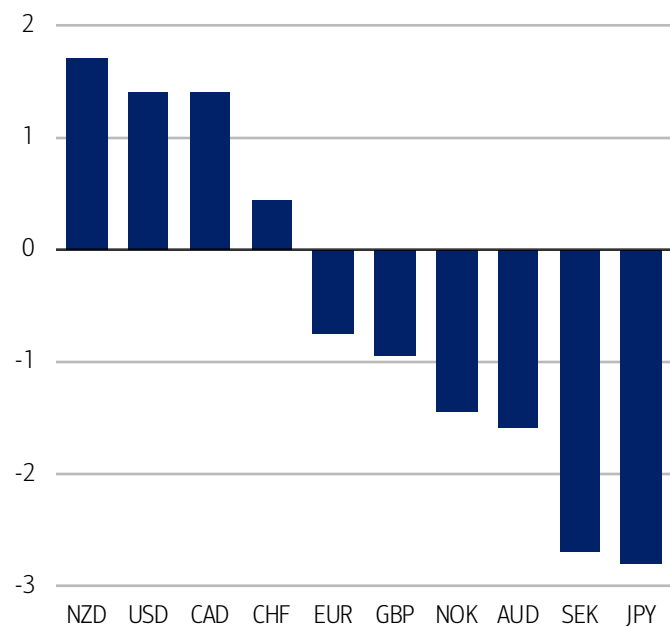


Source: Bloomberg, BofA Global Research

BofA GLOBAL RESEARCH

**Exhibit 12: G10 real policy rates (deflated by latest core inflation)**

Fed monetary policy one of the tightest in G10

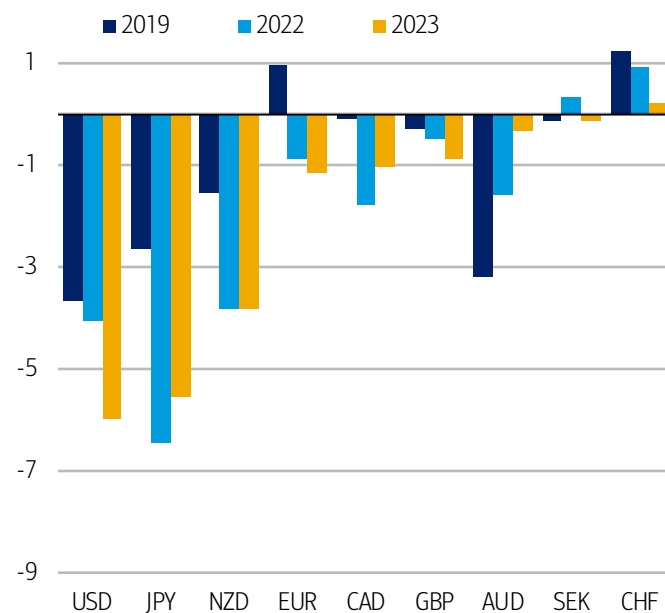


Source: Bloomberg, BofA Global Research

BofA GLOBAL RESEARCH

**Exhibit 13: Structural primary balance (% of potential GDP)**

US fiscal policy the loosest in G10



Source: IMF, Bloomberg, BofA Global Research. Note: we exclude Norway, as oil revenues distort the calculation of the structural balance.

BofA GLOBAL RESEARCH

**Exhibit 14: US 10-year yields and DXY during latest tightening cycle**

The USD could have been even stronger during recent rates sell-off

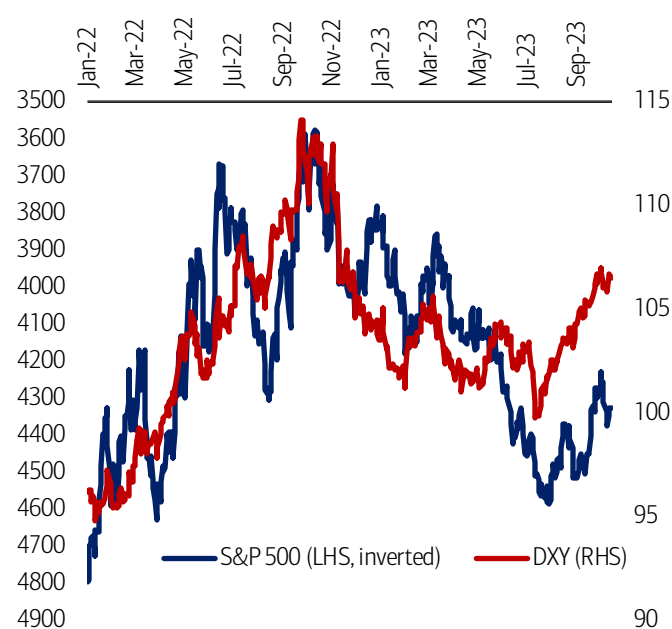


Source: Bloomberg, BofA Global Research

BofA GLOBAL RESEARCH

**Exhibit 15: Stocks and DXY during latest tightening cycle**

The USD has done even better than recent risk-off would justify



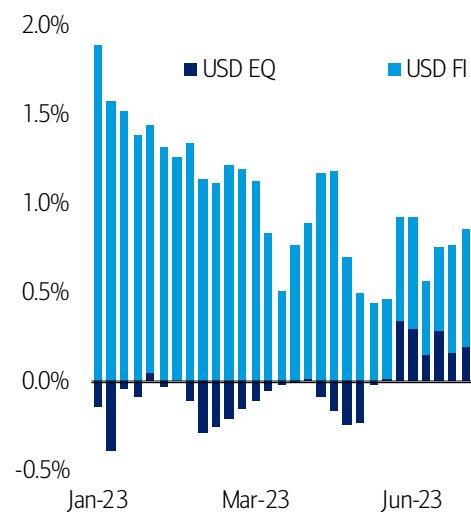
Source: Bloomberg, BofA Global Research

BofA GLOBAL RESEARCH



**Exhibit 16: USD equity and bonds 4-week flows, % AUM**

The USD has benefited from strong bond flows this year, as well as equity flows since July

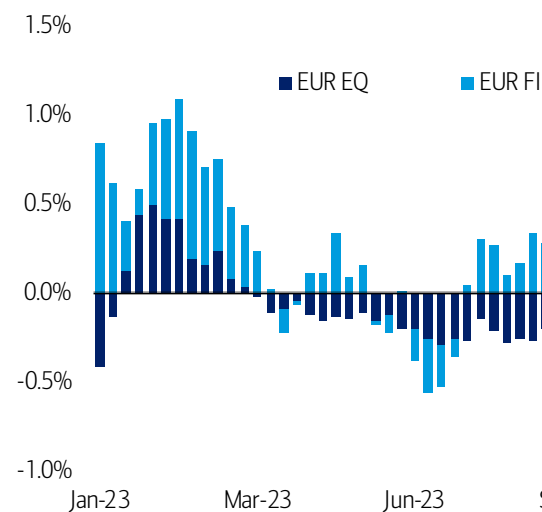


Source: EPFR

BofA GLOBAL RESEARCH

**Exhibit 17: EUR equity and bonds 4-week flows, % AUM**

Following strong inflows in Q1, the EUR has suffered from both bond and equity outflows since then



Source: EPFR

BofA GLOBAL RESEARCH

# JPY: downside risk is underpriced

**Shusuke Yamada, CFA**

BofAS Japan

shusuke.yamada@bofa.com

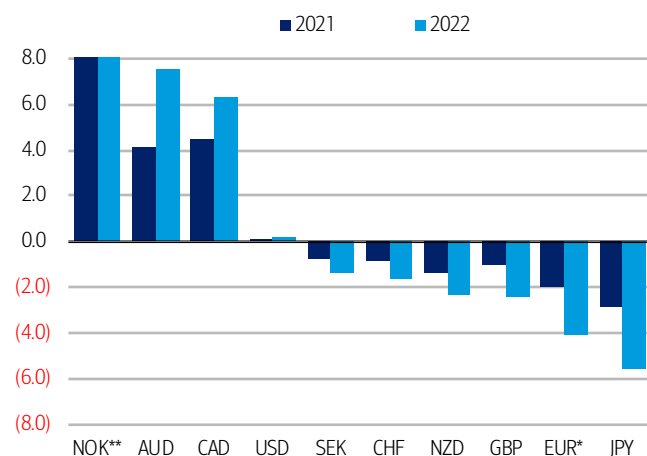
For the full report, see: [Japan Watch: Is yen's downside risk underpriced? 19 October 2023](#)

## Beware of JPY's downside risk

We remain bearish on JPY due to the deficit in Japan's basic balance of payments and our expectations that USD/JPY carry will remain elevated until 1Q24 (see: [FX Viewpoint: JPY – inflation awakening new structural headwinds 28 September 2023](#)). While how geopolitical risk can impact JPY remains uncertain, it can be a downside risk to JPY. In case of a rise in the Middle Eastern oil price, the market may discount JPY's risk against USD and commodity exporters outside the region due to Japan's reliance on Middle Eastern oil supply and the government's reliance on fiscal subsidy, as opposed to monetary tightening, in its response to higher import costs. A rise in the Middle Eastern oil price can be a bigger relative shock to JPY than the one caused by the Russo-Ukrainian war (see: [Ukraine crisis – why JPY has not rallied 01 March 2022](#)).

### Exhibit 18: Trade balance in mineral fuel as % of GDP

Japan is the biggest energy importer as % of GDP among G10 economies



Source: UN Comtrade, Haver, BofA Global Research

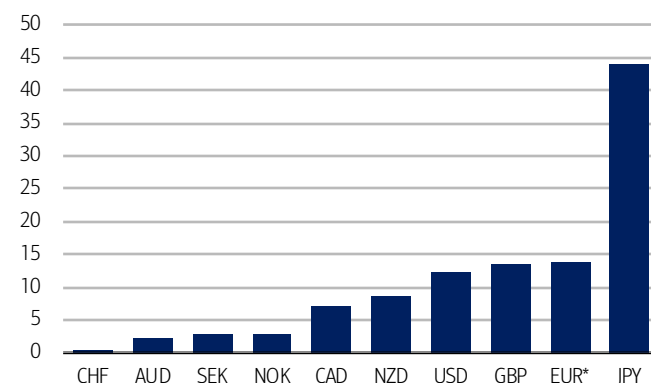
\*We used EU data as proxy due to data availability at UN Comtrade

\*\* For NOK, net export was 23.3% of GDP in 2021 and 35.4% in 2022

BofA GLOBAL RESEARCH

### Exhibit 19: Import value of mineral fuel from Middle East\*\* as % of total mineral fuel import value of G10 economies in 2022

Middle East supplies more than 40% of Japan's energy imports



Source: UN Comtrade

\*We used EU data as proxy due to data availability at UN Comtrade

\*\* Saudi Arabia, Kuwait, Iran, UAE, Iraq, Libya, Qatar, Bahrain, Oman, Syria

BofA GLOBAL RESEARCH

# Dispatch from Morocco

**David Hauner, CFA >>**

MLI (UK)

david.hauner@bofa.com

**Claudio Irigoyen**

BofAS

claudio.irigoyen@bofa.com

Full Report: [GEMs Viewpoint: Dispatch from Morocco 16 October 2023](#)

## Ugly sentiment in beautiful Marrakesh

We hosted our Small Talks conference along the IMF meetings in Morocco last week. Higher for longer is eroding HY market access and raises doubts about priced-in terminal rates. Fiscal is bad around the world. Finally, this is sinking in, and investors are increasingly wondering whether higher for “longer” becomes “forever”. Sentiment at these meetings was similarly poor as one year ago where fiscal has taken over from inflation as the main worry – back then, a major rally wasn’t far off. We don’t think we are quite there yet but we see a cyclical buying opportunity for EM approaching in 1H24.

## Asia: doing relatively better than other regions

There are three broad trends on growth: 1) Asia opened up relatively later than elsewhere, giving rise to a late rebound, e.g. in China. 2) External demand has been a drag, especially when the US rebalances towards a more balanced trade position in goods and services. 3) China grapples with property market correction. The rest of the region mostly have modest tightening in monetary policy and fiscal retrenchment.

## EEMEA: lots of alpha opportunities

Türkiye sentiment much improved on policy steps and communication with investors. Egypt IMF review to pass in Q1, with more IMF funding. Ukraine macro improving, but financing risks rising. In CEE, revise NBH cut for Oct to 75bp from 100bp. Keep CNB cut for November. Very constructive meetings on Serbia, Montenegro, N Macedonia. Still expect another SARB hike.

## LatAm: elections remain center stage

Most of the region have embarked on an easing cycle. However, fiscal and inflation concerns are preventing rate cuts in Mexico and Colombia. Argentina is under high stress ahead of its presidential election, given wide imbalances, high inflation, negative international reserves, and lack of policy anchors. In Ecuador, the macroeconomic policies can look very different in the coming years depending on who wins the election

## Debt restructurings: incremental progress

There has been better than expected progress on the technical work related to the architecture of sovereign debt restructurings, along with some progress on countries already in default. But comparability of treatment remains a major sticking point. Despite incremental progress, investors remain frustrated by the long time frame of debt restructurings.

# From West to East: Quantitative study on impact of US rates on Asia macro

**Chun Him Cheung, CFA**

Merrill Lynch (Hong Kong)

chunhim.cheung@bofa.com

Full Report: [Asia FI & FX Strategy Viewpoint: From West to East: Quantitative study on impact of US rates on Asia macro 13 October 2023](#)

## Sharp steepening in US curve impacts North Asia

The five weeks following 1 Sep'23 saw one of the sharpest sell-offs in US real and nominal rates, along with the steepening of the US curve, since 2008. The sharp movement in US rates, both on an outright and a curve basis, has a material impact on fixed income and risk environment in North Asia.

## Quantifying historical impact of US curve on Asia

In this study, we looked at the cross-asset impact the movement in US rates has on various macro indices in North Asia. We categorized the historical movement in US rates to different regimes in the US curve. The purpose of this analysis is to dissent whether it is outright movements or curvature in US rates that impacts North Asia's fixed-income environment. The summary of our findings can be found in **Exhibit 20**.

### Exhibit 20: Summary of regression findings

Summary of the impact of US curve on North Asia macro

Asset class	Relationship with US 2-year	Relationship with US 2s10s
Broad USD Index	Relationship of US 2y-year to BBDXY varies by regime and is not consistent throughout the cycles.	Consistent relationship with USD strength in both bear-steepening and bear-flattening scenarios.
Asia rates	Strong statistical relationship between US 2-year and Korea 2-year in almost all US curve regimes but is the strongest during periods of US bear-steepening. For Taiwan rates, only bear-flattening in the US curve seem to matter	Korea curve shows the strongest relationship with the US curve during periods of US bear-steepening. However, bear-flattening appears to impact Taiwan more than Korea.
Asia FX	USDKRW, USDTWD and USDCNY are all positively impacted by the rise in US rates during the bear-flattening scenario.	USDKRW and USDTWD are sensitive to bear movements in the US curve while USDCNY is not.
Asian equities	In a bear-steepening environment, Korea and Taiwan equities benefit from the rise in US rates led by higher inflation breakeven but suffer from a rise in US real rates.	No significant relationship seen for Korea and Taiwan equity after controlling for the bear-steepening environment.

Source: BofA Global Research

BofA GLOBAL RESEARCH

# MAS Review: Comfort zone

**Kai Wei Ang**

Merrill Lynch (Singapore)

kaiwei.ang@bofa.com

**Abhay Gupta**

Merrill Lynch (Singapore)

abhay.gupta2@bofa.com

Full Report: [Singapore Watch: MAS Review: Comfort zone 13 October 2023](#)

## MAS keeps status quo; Policy remains “sufficiently tight”

MAS maintained the current rate of appreciation (1.5% p.a.), with no changes to the width of the policy band or the level at which it is centred. The policy decision and guidance from the statement were broadly in line with our expectations (see [MAS Preview](#)). Current policy stance is still assessed to be “sufficiently tight”, and importantly, MAS added “a sustained appreciation of the policy band is necessary to dampen imported inflation and curb domestic cost pressure”, which points to a high hurdle for easing.

## Further disinflation seen, but upside risks to be watched

2024 core & headline inflation are seen averaging 2.5-3.5% (2023: 4%) and 3-4% (2023: 5%) respectively. Core inflation is seen on a broad moderating trend in 2024, with food & goods prices tempered by favorable supply conditions, and unit labor costs seen rising at a slower pace. Excluding GST impact, core inflation is seen averaging 100bp lower at 1.5-2.5%, with mid-point still slightly above the historical average of 1.7%. Interestingly, headline inflation is seen just 50bp lower (narrower than headline) at 2.5-3.5%. While MAS noted both upside and downside risks to inflation, the sequencing suggests that risks to its baseline forecasts are more to the upside than the downside.

## 3Q GDP: Details softer than what headline suggests

Advance estimates showed GDP growth up by 1% qoq SA in 3Q23, above our 0.4% expectations. However, details showed the 3 main sectors expanding by at most 0.6%, implying that the headline figure was exaggerated by (a) other components (i.e. taxes and ownership of dwellings – around 10% of GDP), and/or (b) the nature of how GDP is computed on a chain-linked basis (components do not necessarily add up).

## GDP seen improving gradually over 2024

MAS downgraded GDP growth forecast for 2023 to the lower half of the 0.5-1.5% forecast range, and highlighted that prospects are “muted in the near term but should improve gradually in 2H24”, in line with outlook for major trading partners. Accordingly, 2024 growth is projected to “come in closer to its potential rate, with the output gap remaining slightly negative”. MAS also noted risks of domestic recovery being weaker than expected. We see slight downside risk to our 1% GDP forecast for 2023.

## Extended pause most likely; Risk skewed to tightening

Overall, the statement signals comfort with the current settings if MAS’ baseline expectations pan out. As effects of past tightening moves fade policy may not be “tight” for long, and would thus be more congruent with expectations of muted near-term growth and further disinflation. As such, our baseline remains for MAS to keep policy unchanged in 2024. However, if the growth recovery is seen turning more entrenched before 2H24 and core inflation is seen staying sticky above the historical average for an extended period, a steeper slope may be needed to deliver more durable tightening. In 2012-14, the S\$NEER slope was maintained at 2% p.a. when core inflation was seen  $\geq 2\%$ .

# Views after two weeks on the road in Europe: low risk appetite

**David Beker** >>

Merrill Lynch (Brazil)

david.beker@bofa.com

Full Report: [The LatAm Feedback: Views after two weeks on the road in Europe: low risk appetite 18 October 2023](#)

## Global concerns dominate

We spent the last two weeks visiting fixed income, FX and equity clients in Europe and participated in the IMF meetings in Marrakesh (see details in our [GEMs Viewpoint](#)). Market participants remain concerned about global rates staying high for longer, geopolitics and global fiscal risks. Risk appetite is low and technical picture improved as investors cut their risk exposure.

## Cruise speed on Brazil rate cuts

We got several questions about neutral rates and terminal rate in Brazil. We faced no pushbacks to our view that the Brazilian Central Bank (BCB) could cut rates to 9.5% next year. In general, the perception is that neutral nominal rates should be around 9-9.5%. Clients tend to agree that the bar is high for the BCB to reduce the easing pace and for now expect the pace of 50bp cuts to continue until the end of the year. Discussions about the possibility of an acceleration in the monetary easing pace were muted.

## Inflation risks: fiscal, BRL, oil prices & El Niño

Clients believe that movements in longer term inflation expectations could eventually be a driver for reigniting the discussion about rate cuts ahead. In our view, those could be affected by fiscal developments, BRL, oil prices and inflation surprises. We got a few questions about el Niño impacts ([see our piece on El Niño for further details](#)).

## Fiscal: questions on risk for changes in the target

Regarding fiscal, the key discussion was about the potential for changes in the primary surplus target (we do not expect changes for now) and the potential for Congress to approve the needed tax measures. Fin. Min Haddad is seen as a strong person in the administration and the expectation is for him to keep searching for revenues in order to meet the fiscal target. One key discussion was the ongoing debate on the Precatórios ([see our piece on Precatórios for more details](#)).

## Assets: rates are attractive. Taxation doubts for equities

A lot of questions on positioning and whether the series of stops in receivers was finally over. The consensus seemed to be that while DI positioning is never truly 'clean', it has improved considerably over the past couple of weeks. Most agree that receivers are attractive at current levels but are concerned with the current market volatility. Mixed views on BRL. On the equity front, key questions were about the impacts of potential tax changes in Brazil. Investors remain underweight retail & material names.

# CIS: regional FX pressures should start to fade

**Vladimir Osakovskiy** >>  
Merrill Lynch (DIFC)  
vladimir.osakovskiy@bofa.com

**Mikhail Liluashvili**  
MLI (UK)  
mikhail.liluashvili@bofa.com

Full Report: [Emerging Insight: CIS: regional FX pressures should start to fade 15 October 2023](#)

## EM FX background is poor, but may not be for all

The current environment is negative for EM FX, in our view. The broader dollar should remain strong, supported by high and rising rates in the US. We are heading into a scenario (as a result of higher rates) where weak global growth should also support the dollar. However, some emerging market and frontier countries have room to appreciate against the EUR, in our view.

## “RUB factor” may be turning

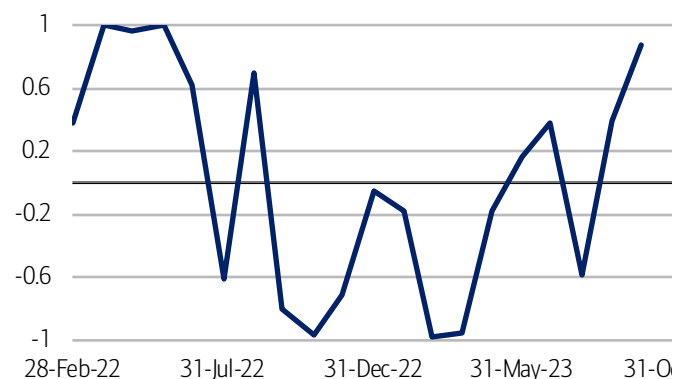
Russian authorities announced tighter capital controls last week, which we view as a clear signal that further RUB weakness is undesirable. New measures include mandatory export revenue sales as well as tighter supervision of FX operations by the main corporate players. The RUB has appreciated by close to 3% since the announcement, reversing two weeks of losses. Apart from capital controls, we note 550bp in CBR rate hikes since August, starting with the 450bp emergency hike. All of these measures were taken when the USDRUB was above RUB100/\$ (in August as well as in early October), which seems to suggest that weakness beyond this level may be unacceptable for policy or political reasons. Therefore, although we think current FX valuations may be driven by fundamentals, such a policy approach may be sufficient to stabilise the RUB around current levels, at least in the near future.

## A more stable RUB should ease pressure on KZT and UZS

The UZS has been more correlated to the RUB since the start of the war between Russia and Ukraine than the KZT (Exhibit 21-Exhibit 22), driven by Uzbekistan's greater dependence on Russia's remittances flows, which are a key currency driver. In Kazakhstan, the main transmission channel besides overall risk sentiment around CIS countries is the rising share of Russia (and other CIS countries) in Kazakh exports. The share of CIS countries (whose currencies are correlated to the USDRUB) in Kazakh exports stood at 20.5% in Q1 2023, up from 16.3% in Q1 2022.

### Exhibit 21: 3m rolling correlation of USDKZT and USDRUB

The correlation is again approaching 1

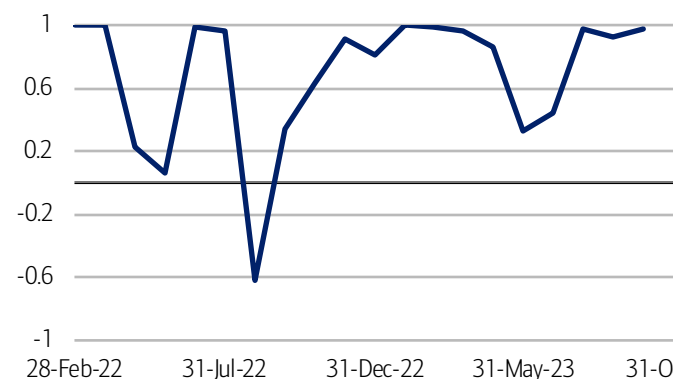


Source: Bloomberg, BofA Global Research

BofA GLOBAL RESEARCH

### Exhibit 22: USDUZS is strongly correlated with USDRUB

Even since the war began, the correlation remains strong due to remittances



Source: Bloomberg, BofA Global Research

BofA GLOBAL RESEARCH



Therefore, we think a more stable USDRUB may help to support both the UZS and KZT against the EUR and possibly the USD. We remain long KZT against an equal basket of EUR and USD (current: 494.6, open: 479, target: 455, stop: 535). For the original trading idea, please see: [EM Alpha: Re-enter our favourite carry trade: long KZT 02 August 2023](#).

## KZT volatility delays easing cycle

The KZT will likely remain supported by the generally tight monetary policy, as recent currency weakness has further constrained the National Bank of Kazakhstan's (NBK) appetite for more easing. Thus, we expect the Bank to keep its policy rates on hold at the November 24 meeting, likely pushing out the current monetary easing cycle to 1Q24. It delivered the expected 50bp rate cut at its regular policy meeting on October 6. However, this was accompanied by quite explicit hawkish guidance for future policy moves: "the possibilities for further rate cuts in 2023 are significantly constrained. Monetary policy easing until the end of the year will be considered if there is a slowdown in annual inflation to a one-digit level".

We think this hawkish stance reduces concerns about potential shifts in monetary policy in relation to the recent reshuffle of the National Bank's management (see: [Kazakhstan – reshuffling risks 12 September 2023](#)). Thus, the latest cut was due to the continuing drastic slowdown of inflation, which fell some 130bp in September alone. Further, we believe the slowdown will continue until at least 1Q24 due to the massive base effect from last year's CPI spikes. However, the inflation slowdown below the indicated 10% inflation target will likely be reported only in the November CPI release, which is due in a week at the next policy meeting. With explicit guidance from the NBK, we think this should be enough for it to push any cuts into 2024. Next year, we expect inflation at just above 6% eop, which should support a cumulative 450bp in rate cuts on the back of a probably more benign external environment.

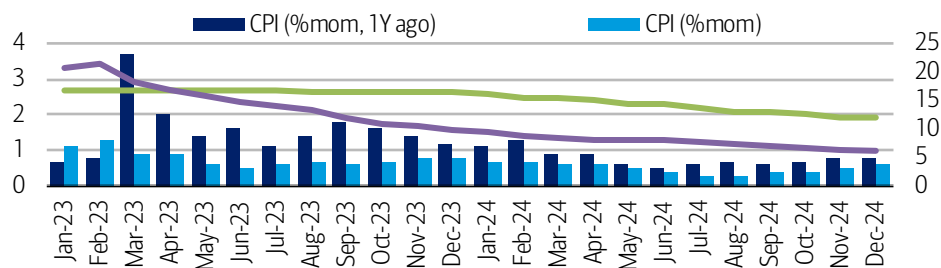
## UZS – back to a steady slide, at least for some time

With regards to the UZS, we think fading pressures from RUB weakness could allow the authorities to maintain their steady 4-5% a year managed devaluation against the RUB, which they have apparently been trying to maintain over the past 5-7Y, in line with the existing 5% medium-term inflation target. Thus, we note that all periods of 5-10% UZS exchange rate adjustments over the past 5Y were largely related to sharp RUB moves (2020, 2Q23 as well as August 2023). A more stable USDRUB could help to reduce the need for any such additional adjustments in the near term.

During the September policy meeting, the NBK put special emphasis on FX stability in saying that: "Having adjusted in August, soum exchange rate ... started moving in line with its long-term trend. Until the end of the year, it is expected that there will be no factors dramatically changing this dynamic". We also note a lack of any specific guidance on potential policy changes, which suggests to us an unchanged policy rate until there is further clarity on inflation and balance of payment risks.

### Exhibit 23: Base effect to push inflation closer to 5% target by end of 2024

Renewed cuts are likely only from 1Q24, by when inflation will below 10% "trigger"



Source: National Bank, Bloomberg, BofA Global Research estimates

BofA GLOBAL RESEARCH



# FX too complacent to rising uncertainty

Howard Du, CFA  
BofAS  
yuhao.du@bofa.com

Vadim Iaralov  
BofAS  
vadim.iaralov@bofa.com

## FX vol has been more subdued than other asset classes

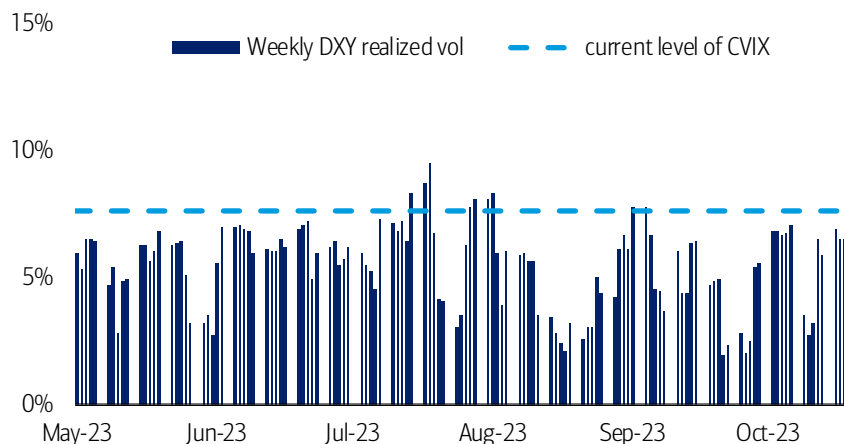
Despite increased geopolitical and macro uncertainty, cross-asset volatilities have been well-behaved, with FX vol even more subdued than others. Using rolling 1y z-scores, Exhibit 25 shows FX, equity, and rates vols all reached a trough on September 15, in-line with our view from August (see [High bar for near-term FX vol spikes](#) report). Since then, rates and equity vol z-scores have increased modestly to +0.4 and -0.1, while FX vol z-score still lags at -0.8.

## Drivers of the current low-vol behavior in FX market

Subdued realized vol is the main cause for the lack of implied vol spikes for FX, in our view. Since May (after first-round effects of US regional bank shock have dissipated), weekly DXY realized vols have been below the current level of implied vol 93% of the time (Exhibit 24). In case of EURUSD, the weekly realized vol was 74% of the time below the current 1m implied since May. With the USD staging an 11-week rally amid subdued vol, the current 3m spot-to-vol correlation has in fact turned negative for the USD (Exhibit 26). The lack of macro conviction is still the main driver of muted realized vol, in our view. The latest BofA Rates and FX Sentiment Survey ([13 October 2023](#)) shows long rates and short rates both rank in the top 3 most-crowded trades. Optimistic sentiment on US economy also sits at odds with investors' current expectation of Fed rate cuts in 2024.

### Exhibit 24: Weekly DXY realized vols have been below current level of CVIX 93% of the time since May 2023

Weekly realized FX vol and current level of implied vol



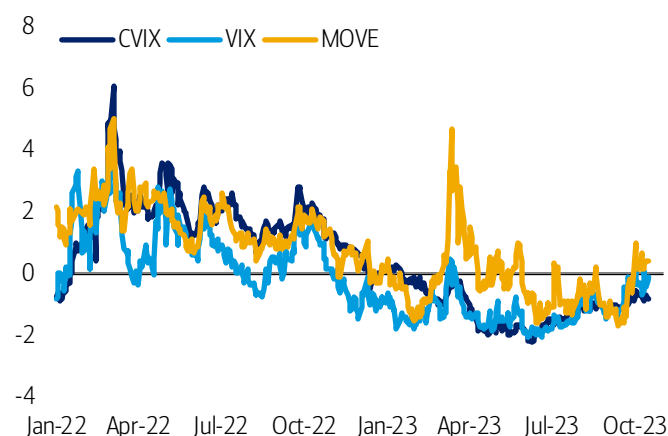
Source: BofA Global Research, Bloomberg

BofA GLOBAL RESEARCH



**Exhibit 25: Rates and equity vols have modestly spiked higher but FX vol is still subdued**

1y rolling z-score of FX (CVIX), equity (VIX) and rates (MOVE) vols



Source: BofA Global Research, Bloomberg

BofA GLOBAL RESEARCH

**Exhibit 26: Spot-to-vol correlation has turned negative for DXY**

3m rolling correlation between DXY return and change in CVIX



Source: BofA Global Research, Bloomberg

BofA GLOBAL RESEARCH

**What would it take for FX vol to rally from here**

Looking ahead, we believe there are two possible catalysts that could cause FX vol to rally. The 1y z-score of VIX is only at -0.1, and we still see FX vol spike most likely coming from a risk-off amid VIX pickup. We have argued that a more hawkish than expected November FOMC after a September pause could sour risk sentiment in the coming weeks (see [FX Viewpoint: 16 August 2023](#) report), especially now that market has pared back Fed rate hike expectations for rest of 2023 after a series of dovish Fed speeches in October. The rising global geopolitical risk would increase the likelihood of a macro risk-off shock as well; our colleagues in equity space have also been advocating to own VIX as hedge (Global Equity Volatility Insights, 17 October 2023). The risk to this view would be a risk-on rally into year-end, causing VIX to remain low.

Another less likely catalyst for a more moderate FX vol spike could be deterioration in US economic data. Recent payrolls, CPI, and retail sales data in the US were unanimously strong and above-consensus. With long USD now as the most crowded trade in macro space ([FX and Rates Sentiment Survey: 13 October 2023](#)), positioning could turn against the USD from a stretched level at the potential onset of US data deterioration, leading to an increase of realized vol and for implied vols to reprice higher as a result. This scenario is similar to the March and July analogs of this year (Exhibit 26), when USD spot-to-vol correlation remained negative but were due to USD selling off amid rallies in FX vol. Risk to this view would be a continuation of the current regime.

# Technical Strategy

**Paul Ciana, CMT**

Technical Strategist

BofAS

paul.ciana@bofa.com

- In July we discussed a big picture bullish set up for BRLCLP ([Global FX weekly: From monthly narratives to weekly narratives 21 July 2023](#))
- Potentially one of the biggest bases we've seen in a while has continued to form and favors a substantially higher BRLCLP outlook in 2024.
- The right shoulder of a head and shoulders bottom formed. A rally above the neckline at 190/192 will confirm it and favors upside, such as 202, 227, maybe 250.

## BRL vs CLP

### A large head and shoulders base continues to form in favor of a 2024 uptrend

The BRLCLP exchange rate had been falling since 2008. In the 2008-2010 years, a triangle top formed ushering in a new downtrend. In 2022 the trend line guiding it lower was broken. In 2023 this line has been retested and acted as support. This trend may be near a big picture end as the right shoulder of a head and shoulders bottom has formed. A rally through the 2022 highs or about 190/192 would break the neckline of the bottom pattern to confirm a large bottom. A new multi-year uptrend would be underway with upside to 202, 227 and possibly 250.

#### Exhibit 27: Brazilian Real vs Chilean Peso – Weekly Exhibit (BRLCLP)

Head and shoulders bottom forming? If so, 2H23 through 2024 is bullish. Support: 164, 158, 150, 145. Resistance: 172, 179, 190, 202



Source: BofA Global Research, Bloomberg

BofA GLOBAL RESEARCH



# Trade Recommendations G10

**Michalis Rousakis**

MLI (UK)

michalis.rousakis@bofa.com

## Exhibit 28: Open trades G10

Current G10 FX trade recommendations. Prices as of 19-Oct-2023.

Trade Description	Open Date	Entry Price	Expiry Date	Current Price	Rationale	Risks
<a href="#">Buy EUR/SEK via 3-month collar (buy 3m 11.8380 call, sell 3m 11.3143 put)</a>	13-Oct-23	Zero cost (3m 11.8380 call cost at 0.5676% EUR with vol ref 7.394%, 3m 11.3143 put cost same with vol ref 6.701%, spot ref 11.5456)	15-Jan-23	11.63	We think SEK's recent rally mainly driven by rumours than fear of the Riksbank, and in defiance of fundamentals. SEK positioning still short but lighter. Technicals: Trade Q4 range 11.40-12.00, MACD turning up	Improved risk sentiment, a faster Riksbank pace of FX sales, and a more hawkish Riksbank
<a href="#">Buy 1y 25-delta AUD/USD risk reversal (call strike 0.7391, put strike 0.6049)</a>	17-Nov-22	Zero cost (spot ref: 0.6693, vol refs: 12.253 and 14.892)	17-Nov-23	0.63	AUD stands to benefit from broad-based USD sell-off and China reopening in 2023	Prolonged systemic shock to the US equity market in 2023

BofA GLOBAL RESEARCH

Source: BofA Global Research

**Exhibit 29: G10 Closed trades**

Recently closed trades in G10 FX. Note: Zero-cost options trade recommendations expiring worthless are also marked in green.

Trade Description	Entry date	Entry Level	Target	Stop	Close date	Level closed
Buy 6m GBP/AUD put seagull (long 6m put spread with strikes at 1.94 and 1.90, short 2.05 call)	08/09/23	0.3827% GBP (spot ref 1.9516, put spread vol refs: 8.346/8.099; short call ref: 8.450)			22/09/23	1.2341% GBP (spot ref 1.9006, vol refs 7.981 for 1.94 put, 7.477 for the 1.90 put, and 8.043 for the 2.05 call)
Sell 2m 0.89 USD/CHF put	23/06/23	Receiving 1.0126% USD (spot ref: 0.8967, vol ref: 6.44)			24/08/23	0.8845
Sell 2m 25-delta OTM EUR/GBP put	23/06/23	Receiving 0.31% EUR (strike ref 0.8472, vol ref 5.584, spot ref 0.8592, expiry August 24)			03/08/23	Spot ref 0.86470, vol ref :4.214)
Buy USD/SEK via 3m collar (buy 3m 10.73 call and sell 3m 9.8960 put)	19/07/23	Zero cost (spot ref: 10.2724, vol refs: 12.296% and 10.202%, expiry Oct 19)			01/09/23	1.3316% USD (spot ref: 10.6109, vol refs: 11.777% and 10.377%)
Buy 3m USD/CHF vol swap	14/04/23	8.15%	9.5%	7.5%	14/07/23	Accumulated 7.6319%
Sell 1y 1.04 EUR/USD put	11/04/23	1.1445% EUR (spot ref: 1.0857, vol ref: 8.517)			23/06/23	0.5238% EUR (spot ref: 1.0960, vol ref: 7.42)
Buy NOK/SEK	28/04/23	0.9638	1.06	0.9280	21/06/23	1.0045
Enter 2m/6m USD/CAD put spread (sell 2m 1.40 put, buy 6m 1.40 put)	13/03/23	0.96% USD (spot ref: 1.3782, vol refs: 8.123/7.877)			07/06/23	1.66% USD (spot ref: 1.3381)
Buy AUD/CAD	14/04/23	0.9028		0.89	25/05/23	0.89
Sell 3m 1.00/1.02905 EUR/CHF call spread	08/03/23	Receive 0.4784% EUR (spot ref: 0.9935, vol refs: 5.651/6.606)			20/04/2023	-0.04% EUR (spot ref 0.98085, vol refs: 5.376/8.971)
Buy 4m USD/JPY KI put with American barrier level at 131.50 and strike 128.11	23/01/23	1.8629% USD (spot ref: 130.27, vol ref: 12.312)			24/03/23	1.93% USD (spot ref 130.00, vol ref: 13.85)
Buy 3m 10.2466/10.70 USD/SEK call spread	20/01/23	1.4689% USD (spot ref: 10.2971, vol refs: 12.752 and 13.307)			07/03/23	2.82% USD (spot ref: 10.7008, vol refs: 12.18/11.943)
Buy 1m 1.00075 EURCHF call	30/01/23	0.8031% EUR (spot ref: 1.00192, vol ref: 7.154)			24/02/23	0.99218
Buy 3 GBP/USD collar (sell 1.2850 call and buy 1.2000 put)	24/01/23	0.19% GBP (spot ref: 1.2400, vol refs: 9.4% and 11.0%)			17/02/23	1.6128% GBP (spot ref: 1.1991, vol refs: 9.961 and 10.287)
Sell USD/NOK via 6m collar (buy 6m 9.0227 put and sell 6m 10.10 call)	11/08/22	Zero cost (spot ref: 9.5063, vol refs: 12.481% and 13.890%)			13/02/23	10.0955
Sell EUR/CHF via 3m collar (long 0.98 put and short 1.00 call)	01/11/22	0.5619% EUR (spot ref: 0.9879)			01/02/23	Spot ref: 0.99833
Buy 3m/6m 25D USD/JPY put calendar spread (short 3m 25D OTM USD/JPY put, long 6m USD/JPY put; strike 132.70)	17/11/22	1.0185% USD (spot ref: 140.1, vol refs: 12.510 and 11.553)			17/01/23	1.8764% USD (spot ref 128.25, vol refs 15.591 and 13.069)
Buy AUD/NZD via 3m ATM 1.0608/1.09 call spread	12/12/22	0.9638% AUD (spot ref: 1.0582, vol refs: 6.721% and 6.28%)			13/01/23	1.9730% AUD (spot ref: 1.0917, vol refs 6.929% and 6.504%)
Sell GBP/USD via 3m 1x2 1.1107/1.0405 put spread	11/10/22	0.6470% GBP (spot ref: 1.1085, vol refs: 16.89% and 19.09%)			11/01/23	Spot ref: 1.2146
Buy NOK/SEK	03/10/22	1.0234 (raised stop/loss to 1.0380 at spot level 1.0592)	1.11	0.9880 (new stop: 1.0380)	7/12/22	1.0380
Buy USD/JPY	03/11/22	147.3	155	143.4	10/11/22	143.4
Buy 3m EURGBP implied via vol swap	15/08/22	35.6116% EUR premium (expiry Nov 15, 2022, atm strike for 6.67%, spot ref 0.84388)			08/09/22	Strike 8.336%
Buy USD/CAD via 3m ERKO call (strike 1.2903, barrier 1.35, exp. Oct 18)	18/07/22	0.6614% USD (spot ref 1.2901, vol ref 8.61%)			22/08/22	0.9027% USD (spot ref 1.3039)
Buy 6m EUR/NOK collar (buy 6m 9.6886 put and sell 6m 10.50 call, exp. Jan 30)	28/07/22	Zero cost (spot ref 9.9241, buy 6m 9.6886 put for 1.3512% EUR with vol ref 9.789%; sell 6m 10.50 call for the same price with vol ref 10.778%)			11/08/22	0.6488% EUR (vol refs 9.555% and 10.765%, spot ref 9.8154)
Buy EUR/CHF via 6m ATM 1.05592/1.08 call spread	04/02/22	0.8832% EUR (spot ref: 1.05689, vol refs: 5.166% and 5.036%)			04/08/22	Spot ref: 0.97860
Buy USD/JPY RKO call (strike 136, barrier 141)	07/07/22	0.3603% USD (spot ref 135.91, vol ref 12.2%, expiry)			21/07/22	0.6833% USD (spot ref 138.70, vol ref 10.01%)
Short CHF/JPY via 3m 130/126 put spread	30/03/22	0.90% CHF (spot ref: 131.425)			30/06/22	Spot ref: 142.118
Buy 1y EUR/GBP vol swap	29-Jun-21	Net 0 premium at 6.212% vol (spot ref: 0.85995, atm vol ref : 5.915%)			29/06/22	EURGBP accrued 5.737% vol
Buy NOK/SEK	23/03/22	1.0743	1.13	1.0380	12/05/22	1.0380
Buy AUD/USD	29/04/22	0.7150	0.76	0.6950	10/05/22	0.6950

# EM Alpha Trade Recommendations

**David Hauner, CFA >>**  
MLI (UK)

**Claudio Piron**  
Merrill Lynch (Singapore)

## Exhibit 30: Open trades

EM Alpha Trade Recommendations

FX	Entry date	Entry level	Current level	Target	Stop	Notional	Rationale/ Time horizon	Risks
Long USDHUF	10/12/23	363.56	362.6	382	351	10	Stronger USD + weak BoP fundamentals in Hungary + still long positioning + focus on growth in Hungary = long USDHUF.	Weaker broader dolla.
Short SGD/KRW	9/20/2023	974	989.158	945	990	10	We like's Korea's improving terms-of-trade led by the stabilizing of memory chip prices and resilient equity portfolio.	additional USD strength which pushes USDKRW higher
1yr USD/CNH vol swap at 6.175%	8/2/23	6.175	5.965	-	5.00	10	The rising use of CNY for cross-border trade settlement should help to cut FX risk for local corporates and reduce the inflation pass-through from imported goods.	Weaker USD environment is typically associated with lower FX volatility and a more favorable EM FX environment
Long KZT vs USD & EUR	8/2/2023	479	508.8	455	493.5	10	High carry + low global rates vol + tax period = long KZT. Official FX sales should also be supportive for the KZT.	High carry + low global rates vol + tax period = long KZT. Official FX sales should also be supportive for the KZT
Buy 6m 25-delta call option for USDTWD	8/1/2023	31.6	spot(32.4)	31.9	29.8	10	We like having a tail risk hedge to USDTWD, covering the period around Taiwan's Presidential election.	China announcing material fiscal stimulus
Short RONCZK	5/24/2023	4.77	4.96	4.53	4.92	10	RON is overvalued + current account in Romania is not improving (unlike the peers) => weaker RON; hawkish CNB => stronger CZK	The risk is crowded positioning in Czechia and delayed depreciation in Romania
Buy 1y USDKD 7.7670/7.8500 call spread	3/29/2023	Spot 7.8499	7.82	7.7670/7.8500	-	10	Forward points in HKD is very low given the outperformance of HK vs US rates following the increase in US banking sector risk	aggressive rally in US rates that significantly closes the HONIA-SOFR spread.
Long INRUSD	1/18/2023	81.65	83.13	80	83	10	We recommend adding long INR against USD on expectations of a catch-up move in INR vs the region on better risk sentiment	Risks to the trade come from further spike in the oil prices in the near term, and higher USD demand from importer

**Source:** BofA Global Research. Spot values as of Oct. 19 2023. Bid/offer spreads accounted for in initiation and closing levels. Does not reflect tax withholdings or any investment advisory fees. Past performance is no guarantee of future results. A complete performance record is available on request. Inception date – July 4, 2016 Initiation and closing prices are priced as of trade publication. For additional discussion of baseline views, valuation and risks to open trades, please see links to detailed reports.

BofA GLOBAL RESEARCH

**Exhibit 31: Closed trades**

## EM Alpha Trade Recommendations

Trade description	Entry date	Entry Level	Target	Stop	Notional	Close date	Level closed
Sell MXN/ZAR	9/25/23	1.09	1.02	1.13	10	28-Sep-23	1.04
Buy USD/PEN	5/4/23	3.72	3.8	3.68	10	28-Sep-23	3.8
Long USD/HUF	9/20/2023	358.4	375	347	10	28-Sep-23	47.96
Buy ZAR/CLP	9/7/23	45.08	48.6	44	10	25-Sep-23	4.6851
Long EUR/PLN	5/17/2023	4.5	4.725	4.365	10	12-Sep-23	4.6851
Short USDZAR through a call spread	8/9/2023	19.06 (for USDZAR)	-	-	10	23-Aug-23	0.57
Short EUR/HUF	8/4/2023	391.7	372.1	403.5	10	23-Jul-23	383.4
Sell CNH/CLP	6/15/2023	111.7	108	113.6	10	4-Aug-23	118
Short EURZAR	3/1/23	19.35	18.43	22	10	27-Jul-23	19.42
Buy a 3m digital call option on USDZAR	6/20/2023	23	17	18.7	10	5-Jul-23	35.5
Long USD/ILS	6/15/2023	3.58	108	113.6	10	5-Jul-23	3.73
Short USDZAR	3/23/2023	18.16	17	18.7	10	15-Jun-23	18.2
Sell MXN/CLP	5/22/23	44.85	42.00	47.00	10	15-Jun-23	46.37
Long USD/PLN	3/8/2023	4.43	4.65	4.0	10	15-Jun-23	4.12
Sell USD/BRL	5/31/2023	5.08	4.85	5.2	10	13-Jun-23	4.85
Long KZT vs basket of USD and EUR via 3m NDF	5/25/2023	494.1	470	512	10	1-Jun-23	470
Sell EUR/BRL	23/Feb/23	5.43	5.20	5.80	10	18-May-23	5.34
Short PLN/HUF	4/25/2023	82	77.9	84.5	10	15-May-23	81.95
Pay PHP NDF Points	3/8/2023	12	25	5	10	9-May-23	16
Long EUR/CZK	27-May-22	24.7	25.9	22.5	10	4-May-23	23.5
Sell CNH/MXN	26-Oct-22	2.72	2.50	2.90	10	24-Apr-23	2.60
SELL USDZMW VIA 9M NDF	3/6/23	22.05	20	24	10	11-Apr-23	18.53
Sell ILS/CZK	3/14/2023	6.12	5.6	6.5	10	11-Apr-23	5.9
Short PLN/HUF	3/17/2023	84	79.8	86.5	10	29-Mar-23	81.3
Long USDT/TWD 12m NDF	11/18/2022	31.17	-	29.45	10	27-Mar-23	29.37
Short USD/IDR	2/16/2023	15110	14700	15400	10	8-Mar-23	15400
short ILSZAR	2/2/2023	81.65	4.74	5.14	10	13-Feb-23	4.98
Long USD/ILS	19-Oct-22	3.54	3.72	3.2	10	13-Feb-23	3.542
Short CZK/HUF	1/18/2023	16.53	15.7	17.05	10	13-Feb-23	16.25
Long KZT vs an equal basket of USD and EUR (3m NDF)	1/16/2023	494.9	470.2	509.7	10	15-Feb-23	468
Short EURGEL (using 3m NDF)	20-Oct-22	2.714	2.94	2.53	10	1-Feb-23	2.53
Buy USDZAR	1/19/2023	17.23	17.86	16.85	10	1-Feb-23	14
Short INR vs long IDR	11/18/2022	191.9	183	188	10	18-Jan-23	184.7
Sell CAD/MXN 3m forward	29-Sep-22	15.1	14	15.5	10	18-Jan-22	14.68
Sell EUR/MXN 3m forward	29-Sep-22	20.06	19.00	21.00	10	18-Jan-22	19.72
Long USDZAR	15-Nov-22	17.3	18	16.9	10	1-Dec-22	17.6
Short EURKZT using 3m NDF	4-Oct-22	493	468.37	507.8	10	31-Oct-22	478
Short PLN/HUF	23-Sep-22	85.3	81	93	10	10-Nov-22	85
Long THB NEER	17-Jun-21	112.27	112.27	111	10	14-Oct-22	100.6
Long THB	19-Nov-21	32.60	30.0	34	10	14-Oct-22	38.08
Long 1x2 3M USD call, PHP put spread	16-Mar-22	52.975	53.5 / 54.75	-	10	14-Oct-22	53.48
Long USD/ZAR	13-Sep-22	17.35	18.2	16.8	10	26-Sep-22	18.00
Colombia: sell COP against basket of oil-currencies	22-Nov-21	100	104	97	10	2-Jun-22	102
Long USD/ILS	16-Aug-22	3.28	3.45	3.18	10	8-Sep-22	3.42
Long USDZAR	16-Aug-22	16.4	17.2	15.8	10	2-Sep-22	17.3
Long USD call, 6M CNH put spread	16-Mar-22	6.38	6.5/6.7	-	10	25-Aug-22	6.8168
Long KZT vs an equal basket of USD and EUR	2-Aug-22	504.1	479	519	10	19-Aug-22	494
Long ILS vs an equally weighted basket of USD and EUR	21-Jan-22	3.38	3.21	3.46	16.2	10-Aug-22	3.32
Long USD/ZAR	20-May-22	15.85	16.64	16.2	16.2	7-Jul-22	16.69
Sell USDZMW 6M NDF	12-Apr-22	18.25	16.8	-	10	7-Jul-22	16.80
Sell USD/PLN	2/3/2022	4.01	3.7	4.5	10	7-Jul-22	4.65
Short PLN/HUF	7-Jun-22	84.7	80.5	87.3	10	29-Jun-22	84.1
Long MYR/PHP	28-Apr-22	11.95	12.4	11.7	10	20-Jun-22	11.95
Colombia: sell COP against basket of oil-currencies	22-Nov-21	100	104	97	10	2-Jun-22	102
Long EUR/HUF	16-May-22	384.75	16.4	14	10	26-May-22	394
Buy CLP/COP	03-May-22	4.68	16.4	14	10	20-May-22	4.85
Sell USD/ZAR	10-May-22	16.1	15.3	16.4	10	19-May-22	15.83
Buy USD/ZAR	17-Jan-22	15.38	16.4	14	10	5-May-22	16.02

Note: Bid/offer spreads accounted for in entry and closing levels. Does not reflect tax, withholdings or any investment advisory fees. Past performance is no guarantee of future results. A complete performance record is available on request. Inception date – July 4, 2016. For additional discussion on baseline views, valuation and risks to closed trades, please see links to the relevant reports. Trade recommendations are highlighted green when the closing value is greater than the entry value and red when the closing value is less than or equal to the entry value. **Source:** BofA Global Research

BofA GLOBAL RESEARCH

# World At A Glance Projections

## Exhibit 32: G10 FX Forecasts

Forecasts as of 19-Oct-2023

	Spot	YE 2023	Mar-24	Jun-24	Sep-24	YE 2024	Mar-25	Jun-25	Sep-25	YE 2025
<b>G3</b>										
EUR-USD	1.05	1.05	1.07	1.10	1.15	1.15	1.16	1.17	1.18	1.20
USD-JPY	150	153	155	150	146	142	140	138.00	136	136
EUR-JPY	158	161	166	165	168	163	162	161.00	160	163
<b>Dollar Bloc</b>										
USD-CAD	1.37	1.32	1.32	1.30	1.28	1.26	1.26	1.26	1.26	1.26
AUD-USD	0.63	0.64	0.66	0.68	0.71	0.71	0.71	0.71	0.71	0.71
NZD-USD	0.58	0.59	0.60	0.62	0.64	0.64	0.64	0.64	0.64	0.64
<b>Europe</b>										
EUR-GBP	0.87	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
GBP-USD	1.21	1.24	1.26	1.29	1.35	1.35	1.36	1.38	1.39	1.41
EUR-CHF	0.95	0.98	0.99	0.99	1.00	1.00	1.02	1.02	1.05	1.05
USD-CHF	0.90	0.93	0.93	0.90	0.87	0.87	0.88	0.87	0.89	0.88
EUR-SEK	11.62	11.70	11.40	11.20	11.00	10.70	10.60	10.50	10.30	10.20
USD-SEK	11.02	11.14	10.65	10.18	9.57	9.30	9.14	8.97	8.73	8.50
EUR-NOK	11.69	11.00	10.80	10.70	10.50	10.30	10.20	10.10	10.00	9.90
USD-NOK	11.08	10.48	10.09	9.73	9.13	8.96	8.79	8.63	8.47	8.25

Source: BofA Global Research, Bloomberg. Note: Forecasts as of 19-Oct-2023.

BofA GLOBAL RESEARCH

## Exhibit 33: EM FX Forecasts

Forecasts as of 19-Oct-2023

	Spot	YE 2023	Mar-24	Jun-24	Sep-24	YE 2024	Mar-25	Jun-25	Sep-25	YE 2025
<b>Latin America</b>										
USD-BRL	5.06	4.90	4.95	5.00	5.05	5.10	5.13	5.15	5.18	5.20
USD-MXN	18.30	18.00	18.30	19.00	19.30	19.50	19.80	20.00	20.30	20.50
USD-CLP	942.76	895	900	905	910	912	914	916.00	918	920
USD-COP	4,236.70	4,175	4,350	4,450	4,500	4,550	4,600	4,625.00	4,650	4,675
USD-ARS	350.07	648	862	1,117	1,407	1,629	1,832	2,061.00	2,318.00	2,608.00
USD-PEN	3.87	3.76	3.80	3.82	3.84	3.86	3.87	3.88	3.89	3.90
<b>Emerging Europe</b>										
EUR-PLN	4.45	4.70	4.80	4.80	4.70	4.60	4.55	4.50	4.45	4.40
EUR-HUF	384.43	400	405	410	400	390	380	370.00	360	350
EUR-CZK	24.70	24.80	25.00	25.20	24.80	24.30	23.90	23.50	23.00	22.60
USD-RUB	-	75.00	76.00	77.00	78.00	80.00				
USD-ZAR	19.08	18.50	18.10	18.00	17.00	17.50	17.80	18.00	18.20	18.40
USD-TRY	28.01	30.00	32.00	35.00	37.00	40.00	42.00	44.00	45.00	47.00
EUR-RON	4.98	5.00	5.00	5.00	5.10	5.13	5.19	5.25	5.30	5.36
USD-ILS	4.03	3.75	3.70	3.65	3.60	3.55	3.50	3.45	3.40	3.40
<b>Asian Bloc</b>										
USD-KRW	1,357.30	1,330	1,305	1,280	1,210	1,190	1,170	1,150.00	1,150	1,150
USD-TWD	32.34	31.70	31.50	31.20	30.30	30.10	29.90	29.70	29.70	29.70
USD-SGD	1.37	1.35	1.34	1.32	1.31	1.30	1.30	1.29	1.29	1.29
USD-THB	36.47	35.00	34.50	34.00	33.50	33.00	33.00	32.50	32.50	32.00
USD-HKD	7.83	7.83	7.83	7.80	7.80	7.78	7.78	7.76	7.75	7.75
USD-CNY	7.32	7.20	7.10	7.00	6.80	6.70	6.60	6.50	6.40	6.30
USD-IDR	15,815.00	15,400	15,300	15,200	15,100	15,000	15,000	14,900.00	14,900	14,800
USD-PHP	56.86	56.50	56.50	56.00	56.00	55.50	55.50	55.00	55.00	55.00
USD-MYR	4.77	4.66	4.62	4.58	4.56	4.54	4.52	4.50	4.48	4.46
USD-INR	83.24	82.00	81.00	80.50	80.00	80.00	80.00	80.00	80.00	80.00

Source: BofA Global Research, Bloomberg. Note: Forecasts as of 19-Oct-2023.

BofA GLOBAL RESEARCH



## Options Risk Statement

Options and other related derivatives instruments are considered unsuitable for many investors. **Options strategy is by definition governed by a finite duration. The most severe risks associated with general options trading are total loss of capital invested and delivery/assignment risk, all which can occur in a short period.**



## Analyst Certification

I, Adarsh Sinha, hereby certify that the views expressed in this research report accurately reflect my personal views about the subject securities and issuers. I also certify that no part of my compensation was, is, or will be, directly or indirectly, related to the specific recommendations or view expressed in this research report.

# Disclosures

## Important Disclosures

Due to the nature of the market for derivative securities, 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.

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.

Due to the nature of quantitative 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.

Due to the nature of technical 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.bofam.com/BofASEdisclaimer](http://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.

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

## Europe

### Athanasios Vamvakidis

FX Strategist  
MLI (UK)  
+44 20 7995 0279  
[athanasios.vamvakidis@bofa.com](mailto:athanasios.vamvakidis@bofa.com)

### Kamal Sharma

FX Strategist  
MLI (UK)  
+44 20 7996 4855  
[ksharma32@bofa.com](mailto:ksharma32@bofa.com)

### Michalis Rousakis

FX Strategist  
MLI (UK)  
+44 20 7995 0336  
[michalis.rousakis@bofa.com](mailto:michalis.rousakis@bofa.com)

## US

### John Shin

FX Strategist  
BoFAS  
+1 646 855 9342  
[joong.s.shin@bofa.com](mailto:joong.s.shin@bofa.com)

### Paul Ciana, CMT

Technical Strategist  
BoFAS  
+1 646 855 6007  
[paul.ciana@bofa.com](mailto:paul.ciana@bofa.com)

### Vadim Iaralov

FX Strategist  
BoFAS  
+1 646 855 8732  
[vadim.iaralov@bofa.com](mailto:vadim.iaralov@bofa.com)

### Howard Du, CFA

G10 FX Strategist  
BoFAS  
+1 646 855 6586  
[yuhao.du@bofa.com](mailto:yuhao.du@bofa.com)

## Pac Rim

### Adarsh Sinha

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

### Shusuke Yamada, CFA

FX/Rates Strategist  
BoFAS Japan  
+81 3 6225 8515  
[shusuke.yamada@bofa.com](mailto:shusuke.yamada@bofa.com)

## Global Emerging Markets

### Claudio Piron

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