

Global Economic Weekly

Services are not looking so Goods

Global Letter: Services are not looking so Goods

Non-farm payrolls last week came in much stronger than their long-term equilibrium level, even if they were accompanied by large downward revisions to the prior data. This week, US CPI printed mildly stronger than expected. Core goods posted a positive reading for the first time since May 2023, and core services inflation continued to accelerate on a 3-month sequential basis. High-for-longer cannot be ruled out in our view.

United States: Mixed data flow should hold the dots steady...but just barely

February inflation was stronger than expected, but with less worrying details than in January. Retail sales were tepid, with large downward revisions. At next week's Fed meeting, the median 2024 dot should still show three cuts. It is a close call, but we think it is too early for policymakers to rule out a June cut. In our view, the Fed will be eager to start cutting in June because of unfavorable base effects on core inflation in 2H. Three cuts could quickly become zero.

Euro Area: SNB preview - spring pause

We expect the SNB to stay on hold at next week's policy meeting. We also expect an unchanged reference to the FX tool vs December. Our call: five quarterly cuts starting 3Q24 to 0.5% in 3Q25. Market volatility in Spring may reignite CHF pressure.

UK: BoE preview – wait and see

We expect the BoE to stay on hold next week with a 1-7-1 vote. We would not rule out a second vote for a cut. We expect no changes to guidance. The minutes should reflect the continued need for more confidence but smaller tail risks.

Asia: Singapore MAS preview, no swift-flation

We expect keep status quo in April & for some time; Overall tone should sound cautious, a downwards shift from Jan's hawkish tone. Even though core inflation is on track to return to 2% in 2025, it is not a given. We see risk skewed towards tightening.

Emerging EMEA: Türkiye – tightening continues

1Q pessimism is likely temporary, policy tighter and data to keep improving towards summer. We see a 300-500bp hike as possible in April, although not our baseline yet and we believe it will depend on March inflation.

Latin America: Argentina – Incentives for a fiscal pact

We see incentives for a fiscal pact with governors to consolidate the fiscal adjustment and increase revenue for the provinces. Still, execution risks remain high, amid a split congress.

15 March 2024

Economics
Global**Table of Contents**

Global Letter	2
United States	5
Euro Area	8
UK	11
Asia	12
Emerging EMEA	14
Latin America	16
Key forecasts	18
Detailed forecasts	19
Research Analysts	25

Claudio Irigoyen
Global Economist
BofAS
+1 646 855 1734
claudio.irigoyen@bofa.com

Antonio Gabriel
Global Economist
BofAS
+1 646 743 5373
antonio.gabriel@bofa.com

Global Economics Team
BofAS

See Team Page for List of Analysts

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 23 to 24.

12670673

Timestamp: 15 March 2024 05:02AM EDT

Global Letter

Claudio Irigoyen

Global Economist

BofAS

claudio.irigoyen@bofa.com

Antonio Gabriel

Global Economist

BofAS

antonio.gabriel@bofa.com

Services are not looking so Goods

Non-farm payrolls last week came in much stronger than their long-term equilibrium level, even if they were accompanied by large downward revisions to the prior data. This week, US CPI printed mildly stronger than expected. Core goods posted a positive reading for the first time since May 2023, and core services inflation continued to accelerate on a 3-month sequential basis. PPI inflation was also above expectations.

Our US team continues to expect the Fed to start cutting in June, followed by a cautious easing cycle of 25bp per quarter. However, the resilience of US GDP, a still tight labor market, a mostly goods- and supply-driven disinflation, and the lack of progress on services inflation pose risks. In this context, a scenario of high-for-longer interest rates cannot be ruled out.

While services inflation is higher and stickier in the US than other major regions, looking at the evolution of goods and services inflation across blocks shows a similar picture: disinflation has been driven mostly by goods. As a result, the last mile should be more dependent on the dynamics of services inflation, and more reliant on the demand side.

Shifting to Japan, we now expect the BoJ to exit NIRP/YCC at the March meeting, on the back of recent economic data including capex and wage negotiations, and BoJ news flow. While we expect YCC to be scrapped alongside NIRP, we maintain our view that the BoJ will guide towards maintaining the current pace of bond purchases, with no QT in 2024.

Strong payrolls came with downward revisions

Non-farm payrolls rose by 275k in February, above our expectation for a 215k increase, but employment growth over the prior two months were lower by 167k. January and December employment gains are now reported at 229k and 290k, respectively. Previously these were 353k and 333k.

For our US team, these revisions validate the view that some of the strength of the January report was statistical noise rather than signal (see [February US employment: Resilience, but not overheating](#)). The rates market bull steepened on the release, and the dollar weakened, suggesting the market also read the report through a dovish lens.

Still, it is worth noting that the average non-farm payrolls reading of the past three months stands at 265k, significantly above the 100k level that would be roughly consistent with population growth. As a result, downward revisions should not cloud the big picture that the US labor market remains tight.

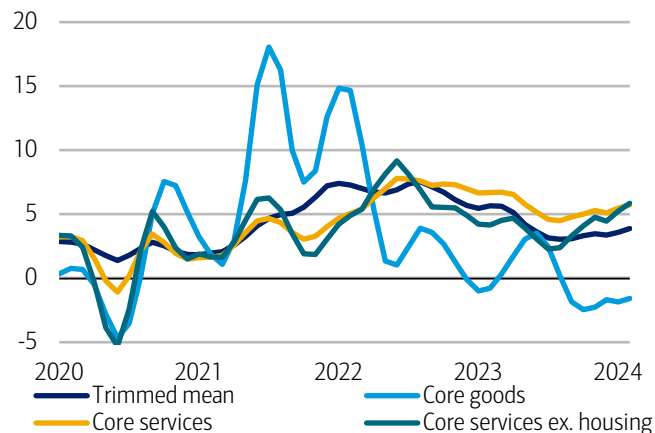
Sticky services inflation, with goods surprising to the upside

The February Consumer Price Index (CPI) topped expectations, rising by 0.4% m/m at the headline and 0.4% at the core. We and consensus were looking for increases of 0.4% and 0.3%, respectively. As a result, headline inflation ticked higher by one-tenth to 3.2% y/y while core dropped to 3.8% from 3.9% previously. Additionally, the February PPI reading was also higher than expected.

On net, our US team views the underlying details as largely favorable for further disinflation, as the surprise was largely driven by core goods prices, while services inflation decelerated on the month (see [February CPI Inflation: Services inflation softens, but goods surprise to the upside](#)).

Exhibit 1: Core services inflation has shifted higher in recent months

CPI Inflation measures (% 3m/3m saar)



Source: BofA Global Research, Haver

BofA GLOBAL RESEARCH

However, core services inflation continued to accelerate on a 3m/3m sequential basis, a trend that started around August 2023 (Exhibit 1). The acceleration is particularly clear for the supercore measure once touted by the Fed (core services ex-housing). Both measures of core services inflation are currently running above 5% on a 3m/3m basis.

High-for-longer cannot be ruled out

Our US Team expects the Fed to deliver a first 25bp cut in the June FOMC meeting, followed by a cautious easing cycle of 25bp per quarter, in line with market pricing, including 3 cuts in 2024 (Exhibit 2). The path of least resistance for the Fed, therefore, is to start easing rates in June based on the disinflation observed so far.

However, as we noted just before the January FOMC meeting, it is easy to build a case of high-for-longer (see [Let's talk about inflation risks](#)). The US economy keeps growing above potential, the labor market remains tight, and disinflation has been mostly goods- and supply-driven. In our view, this explains the recent market repricing (Exhibit 2).

Additionally, an end to goods deflation amid still high and sticky services inflation could become a significant headwind, and the CPI report this week had core goods prices ticking up for the first time since May 2023.

In this context, the option value of waiting is high. Furthermore, if the Fed were not to cut in June for any reason, the market may start wondering whether the Fed would be willing to cut so close to the election. In our view, risks for rates are quite asymmetric.

Sticky services inflation is not exclusive to the US

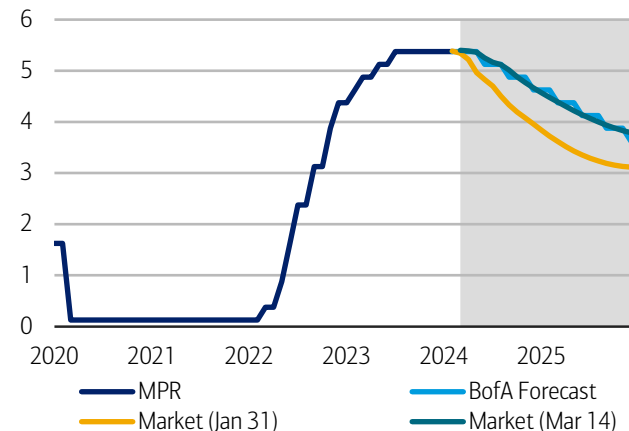
While services inflation is higher and stickier in the US than other major regions, looking at the evolution of goods and services inflation across blocks shows a similar picture: disinflation has been driven mostly by goods (Exhibit 3). As a result, the last mile of disinflation will be more dependent on the dynamics of services inflation, and more reliant on the demand side (Exhibit 4).

Goods inflation has driven most disinflation across DM, including the US and Euro area but also Japan. In fact, goods inflation in the US is negative on a 3m/3m basis, and in the Euro area it stands very close to zero (Exhibit 3). For services, in turn, inflation reached a higher peak and remains much stickier in the US than in the Euro area.

In fact, services inflation has been ticking higher in the US since the summer of last year (Exhibit 4). In the Euro area, there has also been some acceleration in services inflation, but much more recent and not as marked. It is worth noting, still, that the US economy has been and is expected to remain much more resilient than the Euro area, which makes inflation risks emanating from the demand side of the economy more prominent.

Exhibit 2: BofA vs market-implied Fed funds rate

The market has repriced higher since the January FOMC meeting

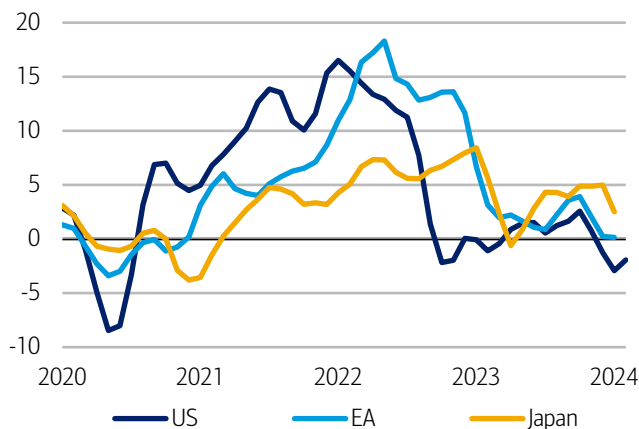


Source: BofA Global Research, Bloomberg

BofA GLOBAL RESEARCH

Exhibit 3: Goods inflation has turned into goods deflation...

Goods CPI inflation (% 3m/3m saar)

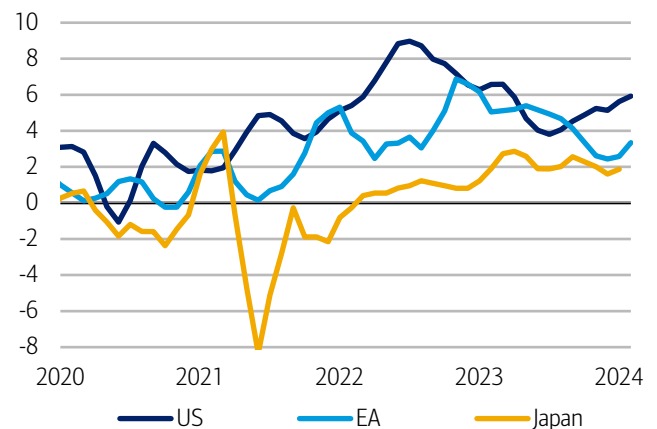


Source: BofA Global Research, Haver

BofA GLOBAL RESEARCH

Exhibit 4: ...but services inflation has been much stickier

Services CPI inflation (% 3m/3m saar)



Source: BofA Global Research, Haver

BofA GLOBAL RESEARCH

In Japan, it is interesting to note that services inflation has been hovering around 2% for about a year, and that goods inflation has not undershot as in the US and Euro area. This may partly explain why the central bank may see the price stability target “in sight”, which we and the market expect to lead to a policy overhaul.

BoJ: our Japan team now expects BoJ to exit NIRP/YCC in March

Since January, Bank of Japan (BoJ) communication has signaled that an exit from its extraordinary easing program was nearing. We have been in the camp that the BoJ would wait until the April meeting to declare its 2% inflation “in sight,” exit negative interest rate policy (NIRP) and yield curve control (YCC). The strongest argument for waiting until April is that the extra month gives the BoJ access to more high-quality data, including the 1) 1Q Tankan, 2) FY24 Shunto data; 3) feedback from BoJ branch managers' meeting.

While the argument is still valid, we think the case for March has been strengthened by 1) recent improvement in capex data, which paint a better picture for domestic demand; 2) aggressive union wage demands, which raise the likelihood that FY24 Shunto wage hikes will beat last year's by a significant margin; and 3) recent media reports suggesting discussion over the post-YCC framework are in the very advanced stages.

As a result, we now see a higher chance that the BoJ's exit from NIRP/YCC will come earlier and change our base case for the move to the 19 March meeting (see [BoJ watch: moving our base case for BoJ NIRP/YCC exit to the March MPM](#)). At the same time, while we expect YCC to be scrapped alongside NIRP, we maintain our view that the BoJ will guide towards maintaining the current pace of bond purchases, with no QT in 2024.

United States

Michael Gapen
BofAS

Aditya Bhawe
BofAS

Stephen Juneau
BofAS

Shruti Mishra
BofAS

Jeseo Park
BofAS

Mixed data flow should hold the dots steady... but just barely

- February inflation was stronger than expected, but with less worrying details than in January. Retail sales were tepid, with large downward revisions.
- At next week's Fed meeting, the median 2024 dot should still show three cuts. It is a close call, but we think it is too early for policymakers to rule out a June cut.
- In our view, the Fed will be eager to start cutting in June because of unfavorable base effects on core inflation in 2H. Three cuts could quickly become zero.

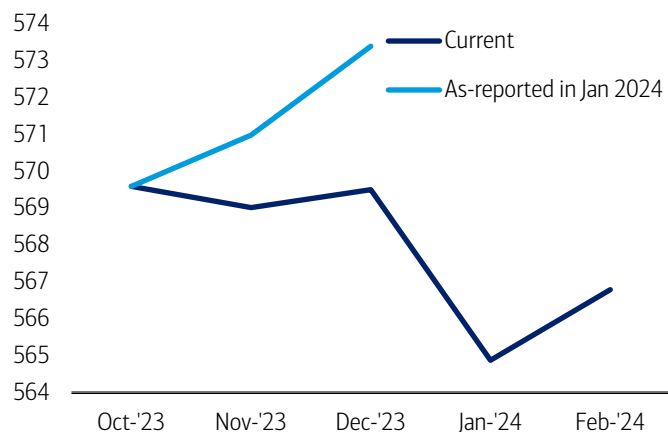
Complete report: [US Economic Weekly: Mixed data flow should hold the dots steady...but just barely 15 March 2024](#)

Framing the outlook in terms of supply and demand

Last October, in a speech titled "Something's Got to Give", Fed Governor Waller argued that last year's Goldilocks dynamic of strong growth and disinflation was unlikely to continue, and that eventually either the real economy would cool off or inflation would pick up. Waller was essentially arguing that the positive supply shock from the healing of supply chains and the expansion of labor supply was unlikely to last. Eventually demand would re-assert itself as the main driver of economic activity, either pushing inflation up (if demand were to pick up) or dragging real growth down (if demand were to weaken).

Exhibit 5: Retail sales ex-autos, current vs. as-reported in Jan 2024 (SA, \$bn)

Downward revisions to retail sales for Nov, Dec and Jan have significantly lowered the trajectory of retail spending

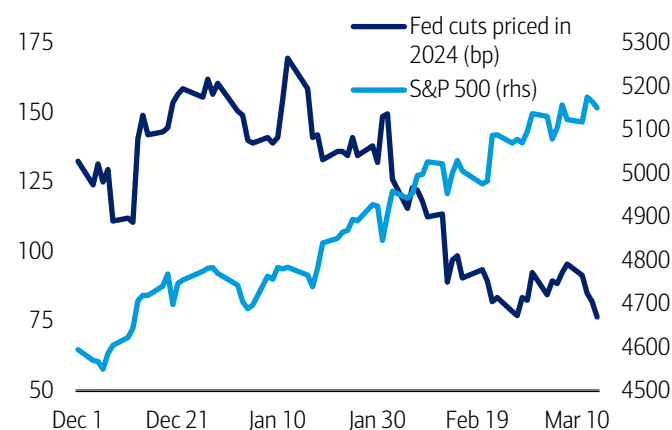


Source: Census Bureau

BofA GLOBAL RESEARCH

Exhibit 6: Fed cuts priced vs. S&P 500

Risk assets have been virtually unfazed so far by the paring back of Fed cut expectations



Source: Bloomberg

BofA GLOBAL RESEARCH

Retail sales revisions reduce overheating risks...

The January data flow raised concerns that the economy was re-accelerating, given the surge in payrolls and inflation (both wages and prices), and the strength in services



spending. Upward revisions to 4Q consumer spending and structures investment added fuel to the ostensible fire.

However, the data for February paint a different picture. Nonfarm payroll growth was strong on the month, but there were very large downward revisions to the prior two months' data. Wage inflation was soft, suggesting the January surge was likely weather-related (Exhibit 5; see [February US employment: Resilience, but not overheating](#)). Retail sales came in below consensus for February, again with large downward revisions to the December and January data (see [Downward revisions tarnish a decent retail sales report](#)). All of this pushes back against concerns that the economy is re-accelerating.

...but inflation surprised to the upside, again

Meanwhile, CPI inflation once again beat expectations in February. The details of the report were better than in January, with OER moving back toward rental inflation and core services ex housing decelerating (see [February CPI Inflation: Services inflation softens, but goods surprise to the upside](#)).

But the Fed will not want to cherry-pick. The broad message from the last two months' inflation data is that the last mile in the push to 2% will probably be the hardest, contrary to growing hopes late last year that we would sprint to the finish line on the back of a sustained tailwind from the supply side. The PPI data were a little better, leaving our core PCE forecast at 0.28% m/m (2.8% y/y).

The pickup in inflation this year suggests that the Goldilocks paradigm has paused, with risk that it has ended. Or perhaps there is residual seasonality in inflation, which tends to boost 1H and weigh on 2H. Either way, the takeaway is that y/y inflation is probably the most appropriate metric. That is still falling, but not as quickly as the Fed would like.

The recent data flow suggests that we are somewhere between the two paths forward that Waller laid out: activity has slowed modestly, but inflation has picked up, or at least is not falling as fast as it was in 2H 2023. One interpretation is that the fading of supply tailwinds is putting upward pressure on inflation and weighing on activity. Another is the perfect data flow has ended and disinflation will be bumpy. More data is needed.

Three reasons for three cuts in the 2024 dot

We will get the Fed's take on the economic trajectory next week, implicitly in the Summary of Economic Projections (SEP) and explicitly in Chair Powell's press conference. The 2024 policy projections, and the dot plot more generally, will be the biggest focus for markets. Our base case is that the median dots for 2024, 2025 and 2026 will remain unchanged from the December SEP. The 2024 median is a particularly close call, with growing investor focus on the risk that it will shift from three cuts to two. We think the Fed will stick to three cuts, for three reasons.

First, there are still three more CPI prints between now and the June decision. The Fed will not want to pre-judge the data. It makes more sense – for now – to preserve the optionality of starting the cutting cycle in June. If the inflation data continue to disappoint, there will be plenty of opportunities in the next three months to take June off the table (including at the May meeting).

Second, while inflation has been uncomfortably elevated, the Fed can take some solace from the weakening activity data, as it lowers the upside risks to services inflation. Re-acceleration of demand would be the worst scenario for rate cut prospects. As discussed above, that seems less likely given the February data.

Third, base effects for core PCE inflation are favorable through May, but unfavorable for six of the next seven months. If the Fed does not start cutting in June, it might not be able to justify rate cuts, at least in terms of inflation, until March 2025. See ([March FOMC preview: not giving up on the disinflation trend just yet](#)) for a detailed preview of next week's meeting.

Bimodal outcomes raise the stakes

The “jump risk” from three to potentially zero cuts this year means the stakes are very high for the next three inflation prints. Risk assets have digested remarkably well the shift in 2024 Fed pricing from more than six cuts to around three at the moment, albeit with a big assist from tech stocks (Exhibit 6). We are skeptical that a shift to zero cuts will be as smooth.

If the Fed stays on hold all year, concerns about regional bank balance sheets and debt rollover risk for corporates could resurface. We think the Fed understands this dynamic and is therefore eager to start cutting in June. But the inflation data need to cooperate

Euro Area

Chiara Angeloni
BofA Europe (Milan)

Evelyn Herrmann
BofASE (France)

Kamal Sharma
MLI (UK)

SNB preview: Spring pause

- We expect the SNB to stay on hold at next week's policy meeting. We also expect an unchanged reference to the FX tool vs December.
- We reiterate our call: five quarterly cuts starting 3Q24 to 0.5% in 3Q25. Market volatility in Spring may reignite CHF pressure.

We expect the SNB to keep its policy rate on hold at 1.75% at next week's meeting. In December, the central bank dropped the reference to a focus on foreign asset selling. We expect an unchanged reference to the FX tool next week, with the press release stating it remains willing *"to be active in the foreign exchange market as necessary"*.

We hold our SNB call for a longer pause followed by a later/slower cutting cycle than the ECB. We still expect the central bank to engage in a very slow cutting cycle starting in September 2024, with five quarterly cuts of 25bp until the policy rate is at 0.5% again by Sep-25, with risk of less. A potential 125bp of cumulative cuts from the SNB compares to 200bp of cumulative cuts (to 2% between Jun-24 and Jul-25) expected by the ECB. Before Sept-24, action is likely to remain confined to FX tools. And even after that, we would expect FX interventions to remain a prominent monetary policy instrument. In our base case, risks of ad hoc FX buying are larger than the reverse.

Should domestic inflation turn out stronger than the SNB thinks (our base case is even weaker inflation, though), we would expect the SNB to deliver tighter financial conditions via FX appreciation (hence the foreign assets' balance sheet unwind) instead of higher rates.

Note that the start of this slow cutting cycle will likely be the last policy action headed by current SNB Chairman Jordan – he has announced his decision to step down at the end of September.

Three factors behind SNB waiting

In our recent Swiss update ([European Viewpoint: Switzerland in '24: Slowly slowly 19 February 2024](#)) we pointed to three factors underpinning our view of a patient SNB: 1) given the 0%-2% SNB target, latest inflation prints closer to 1% than 2% would not increase pressure on the central bank to cut, 2) pressure on CHF stemming from faster disinflation elsewhere (coupled with more aggressive market pricing of cuts) is now past the peak, 3) FX interventions remain conditional on fast and large CHF moves.

On the latter, foreign asset buying remains the main tool to prevent abrupt and significant CHF appreciation. On the flipside, we regard easing of financial conditions via balanced sheet unwinding as less likely given i) weaker inflation than the SNB expected in 1Q and ii) Jordan's comments that he regards *"financial conditions as appropriate"*.

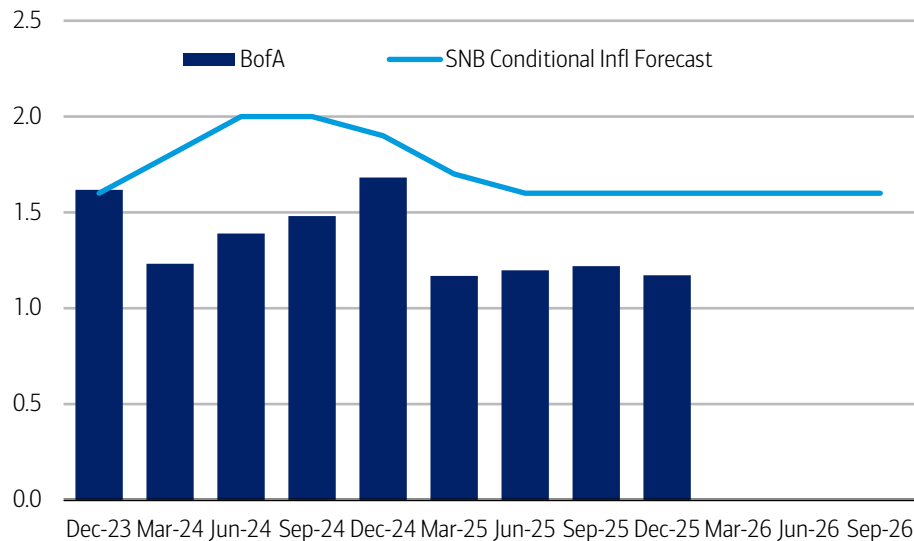
Conditional forecasts to move lower, but target asymmetry to prevail

In December, SNB conditional inflation forecasts were lowered to 1.6% by late 2026 – a level that did not warrant immediate rate cuts. Jan/Feb inflation data imply that 1Q average inflation will be ca 60bp lower than forecast by the SNB (Exhibit 7). This is consistent with a downward shift in the inflation path thereafter, which should be evident in the new projections next week. However, given the SNB's asymmetric below-2% inflation target, we expect no policy action to be viewed as warranted next week.

Our latest forecasts foresee average inflation at ca 1.5% in 2Q/3Q, before averaging ca 1.2% in 2025 (vs 1.6% of the SNB's December forecasts). In the short term, this profile embeds small acceleration in the Spring due to an electricity prices base effect and VAT hike contribution. If anything, this inflation profile remains consistent with no need for rate action before September.

Exhibit 7: Inflation forecasts, SNB December forecasts vs BofA

1Q24 inflation short of SNB expectations but target asymmetry to prevail



Source: SNB, SFSO, BofA Global Research

BofA GLOBAL RESEARCH

FX risks from market volatility at the start of cutting cycles

Given the asymmetric balance of risks around the start/speed of the cutting cycle for the biggest central banks (FED/ECB), FX volatility in the next few months cannot be ruled out. Recent dataflow from the US points to risks of reaccelerating inflation – hence risks of further delays to the call for a first cut in June (or no cuts at all). Likewise, we worry that a similar narrative may gain ground in Europe, fostering market volatility around the pricing of the June cut given the lack of any clear Euro area inflation picture before May ([Europe Economic Weekly: Three months to go 08 March 2024](#)). This could translate into renewed pressure on the currency, although in this case it could result in CHF depreciation pressures. We are not sure that would be enough to allow FX selling, but it might make FX buying unnecessary.

CHF appreciation could also result from heightened market volatility or geopolitical uncertainty (in search of 'safe' assets), or a faster cutting cycle by the Fed and the ECB than currently expected. For the Fed, this risk scenario seems limited; for the ECB, we would argue it's a more prominent risk for the fall than for the next few months. Should this materialize, we expect the SNB to step in with FX intervention if needed.

True, the SNB officially has a symmetric FX intervention stance now, allowing selling or buying. But given the above considerations, the risk balance is tilted towards the need for FX buying going forward. That said, slower disinflation from here exerting less REER pressure on CHF, as well as the higher possibility of a delay to Fed cuts, rather than earlier and faster moves, may allow the SNB to refrain from utilizing the FX tool. We continue to expect SNB interventions to be mainly aimed at fending off abrupt FX movements in either direction.

FX: doing the heavy lifting

The Prime Facie evidence would suggest that the SNB should be among the first of the major central banks to cut rates. Inflation this year and next is projected to be the lowest in Western Europe whilst growth is likely to be below trend. However, the SNB does not adhere to the usual rules governing central bank behaviour by virtue of its two-pronged approach to policy setting. With the SNB Policy Rate the lowest in G10, the central bank is likely to want to delay the cutting cycle for as long as possible. Much like the CHF was used in conjunction with rates when tightening policy, we believe there will be a symmetry in the other direction as well.

One of the major reasons for this is the limited room to manoeuvre in cutting official policy rates. We sense SNB reluctance to cut rates materially and back into negative territory. In the meantime, FX is likely to do the heavy lifting as the main policy tool. Whilst inflation remains under the target, the SNB is alert to any signs of a pick-up in inflation that may temper the need to act now. Nonetheless, at the time of writing, Swiss OIS pricing has 10bps of easing for next week's meeting.

This may suggest some asymmetric risks and a stronger CHF on the announcement, but the substantive risks will be from the accompanying statement and the SNB's current views on CHF. From this perspective, the Bank will be encouraged that the real effective TWI has eased off its highs and towards the lows for the year. This may help shape the narrative at the meeting. Nonetheless, a structurally lower CHF remains our high-conviction view for 2024 and beyond, though we are cognisant of the build-up of short positions.

UK

BoE preview - wait and see

In "wait and see" mode

We expect the BoE to stay on hold next week with a 1-7-1 vote. We would not rule out a second vote for a cut. We expect no changes to guidance. The minutes should reflect the continued need for more confidence but smaller tail risks. The emphasis from here is likely to still be on sticky services inflation, ongoing and upcoming wage negotiations and the pass-through of the upcoming increase in the national living wage.

Sticking to the line

In February, the BoE removed the hiking bias from the statement. But the rest of the guidance on the need to be restrictive for sufficiently long remained. Bailey's communication during the press conference was cleanly executed, avoiding dovish biases. We don't expect very big changes in the guidance this time around – March should mostly be a "wait and see" meeting for the BoE. On the margin, we think the decision to hold Bank Rate steady at 5.25% may be accompanied by a slightly more consensual vote breakdown. We see at most one member calling for a March hike: a 1-7-1 vote in favour of a hold seems a reasonable base case. We expect Haskel to switch. The minutes are likely to acknowledge the falling risks of a wage spiral. But they will probably be very clear that cuts are still some way off. Surprises in next week's CPI print may tilt the communication slightly but shouldn't be a deal breaker.

Confidence needs more time (and data)

The BoE's communication over the past few weeks suggests the central bank remains prudent and that its confidence in the inflation outlook will build only gradually. All in all, we think the recent dataflow and political developments are consistent with a longish hold. While January's inflation print was slightly below expectations, we wouldn't overplay that signal – the change in weights played a role there. So far, labour market numbers have signalled slightly weaker compensations momentum. But wage growth at 6.1% yoy remains far too high to be consistent with the inflation target. On the growth side, the data is not giving the BoE a sense of urgency – the latest GDP print points to an end of the recession in 1Q24. On the fiscal side, the Spring Budget was mildly stimulative, but still far from a blowout – maybe marginally hawkish for the BoE.

Our call: on hold until August

We remain convinced that the BoE will keep Bank Rate on hold at 5.25% until August, with a cutting cycle of 25bp per quarter from there. The minimum wage hike scheduled for April and wage settlements in the next few months will keep MPC members on their toes. In our view, the BoE will be the last of the major central banks to start cutting rates and will probably move slowly, at least compared to the ECB. Despite some tentatively encouraging signs, the UK still has higher risks of inflation becoming entrenched. Cuts earlier than August remain unlikely. If anything, we think the balance of risks is tilted towards a later start to the cutting cycle.

FX: Carry On GBP

With the UK rates market pricing in very little in terms of rate cuts for the March meeting, we would expect little impact from the event itself. As a rule of thumb, a non-Quarterly Inflation Report meeting is generally used as a holding pattern ahead of any forecast revisions before the next Quarterly update (in May). The evidence so far is that the UK has gained some momentum with 2024 consensus forecasts for growth revised up to 0.4% y/y. Whilst this still represents meagre growth, the narrative that the economy would stagnate under the weight of structurally higher inflation and high interest rates has been challenged. In that sense, the markets are now more comfortable trading the positive carry theme which has dominated FX trading in 2024. We therefore expect GBP to remain supported into a positive seasonal month in April as rate differentials and a benign backdrop to risk continue to support sentiment.

Asia

Kai Wei Ang

Merrill Lynch (Singapore)

Singapore MAS Preview: No swift-flation

- Singapore MAS to keep status quo in Apr (& for some time); Overall tone to sound cautious, a downwards shift from Jan's hawkish tone
- Core inflation on track to return to 2% in 2025, but not a given; Risk skewed towards tightening, but less so than before.

Complete report: [Asia Economic Weekly: MAS: No swift-flation 15 March 24](#)

No change, but policy tone to sound cautious in Apr

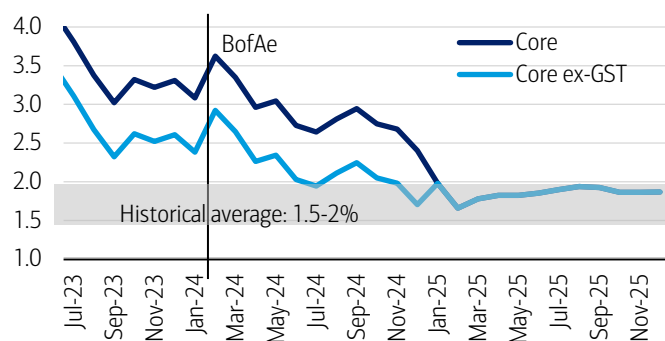
Singapore MAS will release its policy decision by 12th Apr. We expect no change to policy, but the overall tone could sound cautious – shifting down a gear from the [hawkish tone in the Jan MPS](#) (see report), but not neutral as yet. The [Jan CPI](#) report has somewhat allayed concerns over second round effects from 1% GST & larger-than-usual admin price hikes. As such, MAS might express greater conviction for further disinflation through 2025 by acknowledging that some domestic cost pressures have started to ease. At the same time, MAS should still be alert to inflation risks by reiterating that inflation would remain elevated in the near-term, and perhaps more explicitly highlighting that output gap might turn positive by year-end (which might in turn spur demand-pull pressures).

Greater hopes of core inflation returning to 2% in 2025

We expect core inflation (ex-GST) to moderate from 2.2% in 2024 to 1.8-1.9% in 2025 (i.e. within the historical 1.5-2% range). The latter is premised on broad downtrend in energy prices, dampened goods inflation, smaller administrative price hikes and tapering of services inflation as upward pressure on prices recede.

Exhibit 8: Monthly core inflation (%yoy)

We see core inflation (ex-GST) averaging 2.9% & 1.8-1.9% in 2024 & 2025

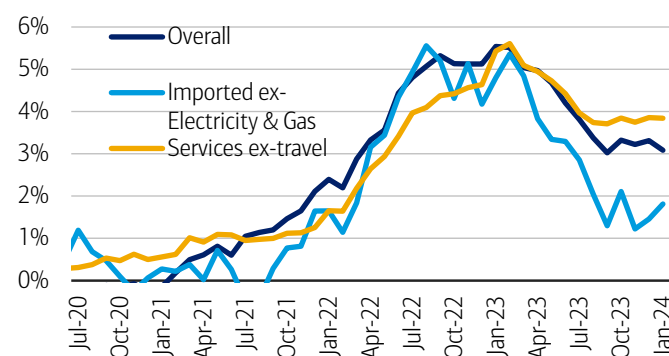


Source: BofA Global Research, Singstats, Haver

BofA GLOBAL RESEARCH

Exhibit 9: Core inflation, by broad components (%yoy)

Imported inflation has eased, but services inflation still sticky



Source: BofA Global Research, Singstats, Haver

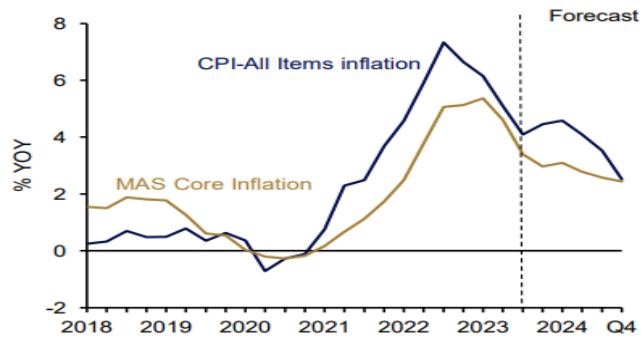
BofA GLOBAL RESEARCH

Well on track to meet MAS's Jan '24 implicit core forecast

Core inflation trajectory for 2024 seems to be tracking 10-20bp below our inference of MAS's forecast from Jan. As such, core inflation is more likely to stay within (rather than exceed) MAS's forecast of 2.5-3.5% for 2024. Historical patterns suggest that policy tends to be status quo in the absence of material changes to core inflation forecasts. Since 2010, we observed that MAS kept policy unchanged in 9 out of 11 episodes when current year's core inflation forecast was maintained.

Exhibit 10: MAS inflation forecast up till 4Q24 (from Oct '23)

We inferred MAS seeing 2024 core inflation at 2.7-2.8%

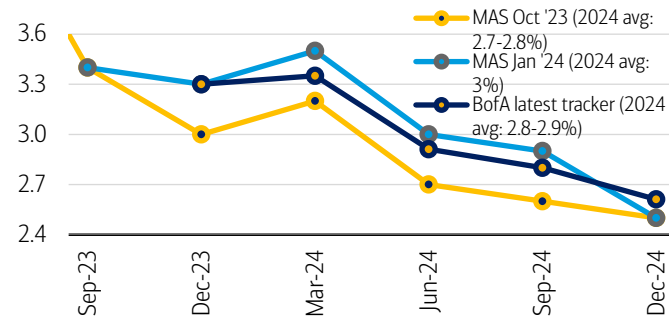


Source: MAS Macroeconomic Review (Oct '23)

BofA GLOBAL RESEARCH

Exhibit 11: Quarterly core inflation (%yoy): Latest vs. our inference of MAS's forecasted trajectory

Core inflation to date tracking below MAS's probable Jan forecast



Source: BofA Global Research, Singstats, MAS, Haver

BofA GLOBAL RESEARCH

Exhibit 12: Observations of MAS policy moves vs. change in current year's core inflation forecasts since 2010

MAS tend to adjust policies in response to material changes to its core inflation forecast

Policy Moves					
<u>Tighten</u> – No. of Instances	Meeting Dates	<u>No change</u> – No. of Instances	Meeting Dates	<u>Loosen</u> – No. of Instances	Meeting Dates
8	Apr-10; Apr-12; Apr-18; Apr-21; Jan-22, Apr-22, Jul-22, Oct-22	2	Oct-16; Oct-20	0	
2	Apr-11; Oct-18	9	Oct-10; Apr-14; Apr-15; Apr-17; Oct-17; Apr-21; Apr-23; Oct-23; Jan-24	0	
0		6	Oct-11; Jan-15; Oct-15; Apr-16; Oct-19; Apr-20	5	Oct-12; Apr-13; Oct-13; Oct-14; Apr-19

Source: BofA Global Research, MAS

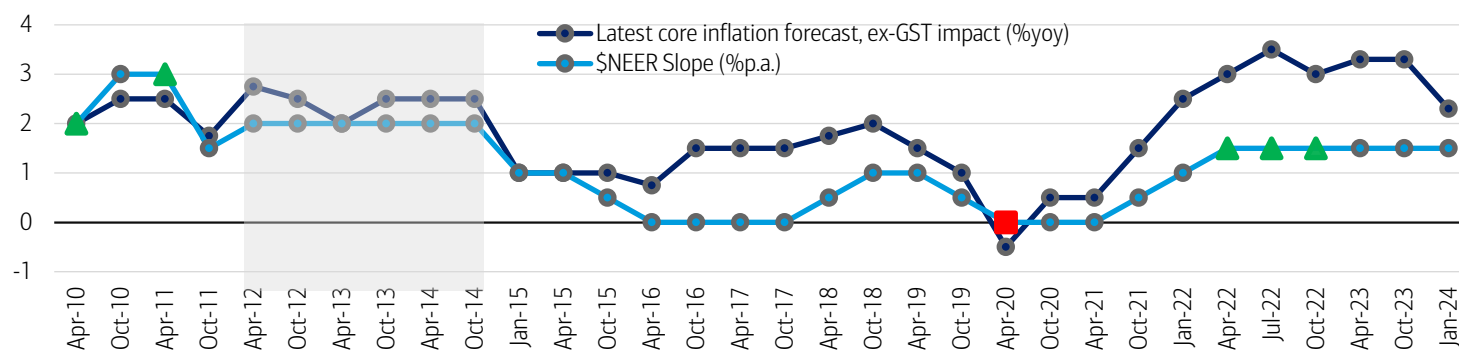
BofA GLOBAL RESEARCH

Still alert to inflation risks = Risk skewed towards tightening (but less so than before)

MAS is likely to remain vigilant to inflation risks, including wage-price spiral given still tight labour market conditions (even as it pulls back from extreme tight levels) and de-anchoring of expectations. Given MAS' pre-emptive credentials and with effects of past aggressive tightening moves already past the peak, we do not entirely rule out a 50bp slope steepening to deliver more durable tightening. This is especially if core inflation is seen staying sticky above 2% through 2025. We note that in 2012-14, the S\$NEER slope was maintained at 2% p.a. when core inflation was seen $\geq 2\%$.

Exhibit 13: Latest core inflation forecast (%yoy) vs. estimated S\$NEER slope (% p.a.)

In 2012-14, slope was maintained at 2% p.a. when core inflation forecasts were at least 2%



Source: BofA Global Research estimates, MAS BofA GLOBAL RESEARCH

Emerging EMEA

Zumrut Imamoglu
MLI (UK)

Türkiye trip notes: Hiking cycle may be over but tightening continues

- 1Q pessimism is likely temporary, policy tighter and data to keep improving towards summer. We see a 300-500bp hike as possible in April, although not our baseline yet and we believe it will depend on March inflation.
- We don't expect a sharp depreciation or inflationary tax and price adjustments following the local elections.

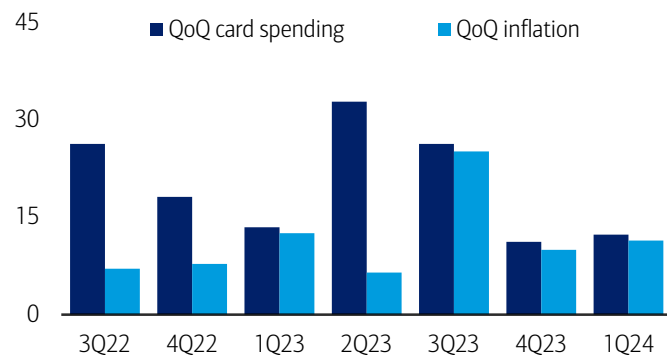
Complete report: [Emerging Insight: Türkiye trip notes: Hiking cycle may be over but tightening continues 12 March 2024](#)

1Q pessimism is likely temporary

The effect of wage increases, acceleration in loans and speculative FX demand was felt clearly in our trip last week. The CBRT responded by implementing restrictive macroprudentials that immediately increased deposit and loan rates, pushing credit conditions deeper into a restrictive zone. We believe that recent pessimism is fuelled by temporary acceleration in credit growth as well as concerns about FX depreciation after elections, like last year. However, policies this year are very different and credit conditions are tighter. We don't see a sudden increase in the FX after the local elections and we think that recent increase in local demand for FX based assets is temporary.

Exhibit 14: QoQ card spending vs. qoq inflation %

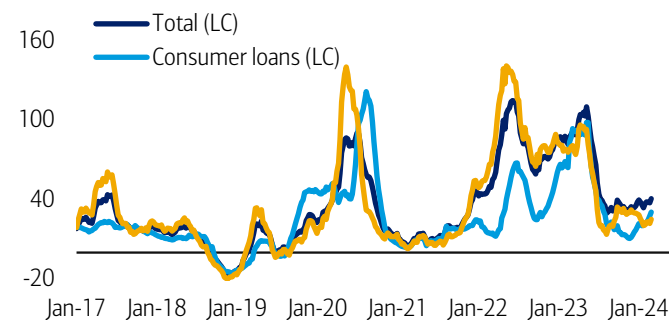
Card spending in 1Q is in-line with inflation unlike last year before elections



Source: Haver, CBRT, TurkStat *1Q24 shows Jan-Feb average increase from previous quarter
BofA GLOBAL RESEARCH

Exhibit 15: Local currency (LC) loan growth, annualized 13-week ma

Acceleration in 1Q is relatively small and will go down following new measures



Source: Haver, CBRT

BofA GLOBAL RESEARCH

Domestic demand is resilient but not as strong as last year

Real sector feedback on our trip suggested that domestic demand is not as strong as last year in 2Q but continues to be resilient. Increase in wages and banks' appetite to grow their loan book seem to have caused a revival since start of the year. 13-week moving average annualized consumer loan growth accelerated from 10% in October to 30% as of 1 March (Exhibit 15), card spending in first two months exceeded last quarter growth and total local currency loans accelerated from a low of 29% to 40%. However, when compared to current inflation and inflation expectations, loan growth implies slight contraction in real terms and when compared to last year's highs of 100% in consumer loans and 109% in total local currency loans, it is quite weak. Card spending yoy is high c. 125% but qoq increase is in-line with inflation (Exhibit 14). Most of the yearly increase is due to the large base effect in 2Q last year where card spending increased 32% vs. quarterly inflation of about 6.4%. We think that the acceleration in demand from 4Q is mostly temporary, driven by wage increases and loan growth.

CBRT moved to prevent pre-election speculative demand

Real sector representatives and banks we spoke to believe that durable goods and FX based asset demand is in-part due to expectations of devaluation in the currency after the elections. Following the February inflation print, which was slightly above that of CBRT inflation forecast path, we have seen an increase in speculative FX demand both from retail and corporates. CBRT net reserves excluding swaps decreased \$10bn since start of the year until beginning of March but net asset position excluding swaps decreased by \$6bn alone last week. In response, the CBRT decreased loan growth caps of commercial and consumer loans from 2.5% and 3% mom to 2% mom each, respectively. For banks who exceed the caps, now there is a reserve requirement of 100% with one year maturity at zero interest rate.

This bold step has immediately pushed commercial rates from 45-50% to over 60% and caused a 3-5% increase in TRY deposit rates. In light of the feedback from banks in our fieldtrip, we think that this move will significantly reduce loan growth unless it is eased after the elections. It will also help reduce speculative demand from local corporates who were borrowing TRY to increase their FX positions before the local elections.

CBRT only recently was able to get hold of TRY liquidity

Since last summer, banking system has been awash with TRY liquidity despite multiple increases in the reserve requirements by the CBRT. One of the reasons, we believe, was the increase in swaps by the banks to take advantage of longer maturities at lower costs during the hiking cycle. FX-protected accounts and reserve building strategy also contributed. The swap transactions via traditional auctions where maturities are mostly 1 month and 3 months. We see concentration of swaps just ahead of every rate decision during the hiking cycle. Only after January when the CBRT announced an end to their hiking cycle this trend changed. The CBRT has also stated that they intend to reduce swaps since start of the year.

By end of January, we were estimating the average swap funding cost at c. 39.5% (naked¹) while policy rate was 45%. We see the swap funding cost catching up with the policy rate by end of March, taking at least two months from the last rate hike. Hence, although hikes stopped, funding cost of the banking sector continued to increase. In addition, excess TRY liquidity in the system used to be sterilized by quotation at the lower band of the interest rate corridor which is 150bp lower than the policy rate. The CBRT started to use depo auctions for sterilization which helped increase the sterilization rate to policy rate or above, pushing the TLREF closer to the policy rate. Only recently, net OMO funding turned positive and we see that TLREF have remained close to the upper band more persistently. In other words, the CBRT's 45% policy rate started to become more effective and liquidity conditions continued to tighten since the CBRT stopped hiking.

Conditions are already tighter; will it be enough or do we need more hikes?

All data suggest that things are moving in the right direction. We think that credit conditions, especially following the macroprudentials last week, are very tight and it will start to show its effect on demand very quickly. The current account and gold & energy excluded trade deficit are correcting every month at a fast pace and we expect more correction in 2Q and over the summer. Hence, we believe the pessimism in 1Q is mostly due to temporary effects and by the end of 2Q, we expect both locals and foreign investors to turn more bullish. That said, macroprudentials are still at the forefront of policy making, swaps and FX-protected accounts are sizable and reserves are limited.

We think that further hikes in the policy rate would help manage inflation expectations better than macroprudentials and help increase credibility and confidence in the central bank. If the CBRT hikes in March or April, we think that capital inflows can restart in 2Q.

¹ Excluding Libor and cost of FX funding and without adjusting for maturity difference

Latin America

Sebastian Rondeau

BofAS

Argentina: Incentives for a fiscal pact

We are moderately optimistic about chances of a fiscal agreement between the government and the governors being reached in the short term. This should include a change in the pension formula, tax revenues, a promotion regime for large scale investment projects and deregulation of hydrocarbons. Incentives for this agreement are strong given the need to consolidate the fiscal adjustment and increase revenues for the provinces. Execution risks remain large amid a split congress and risks for the mega-deregulation decree.

Complete report: [Argentina: Incentives for a fiscal pact 14 March 2024](#)

Strong incentives for a fiscal agreement

We update our views post Argentina trip last week. We are moderately optimistic about the chances of a fiscal agreement between the government and the governors in the short term (in 2Q). The package of laws should include a change in the pension formula, tax revenues shared with the provinces (income taxes, moratorium), a promotion regime for large scale investment projects and deregulation of hydrocarbon sector. We think both parts have strong incentives to agree on the fiscal pact. First, the provinces' revenue is dropping more than 20% yoy on average. Second, the government needs to consolidate the fiscal adjustment, the main anchor of the disinflation program. We believe the government has incentives to accelerate the agreement. First, there is momentum to change the pension formula after several quarters of declines in pensions in real terms (which could change starting in June). The threat from the Senate to potentially reject the mega-deregulation decree (DNU) is another incentive to accelerate negotiations. The Senate would start debating the DNU tomorrow. Rejection from both chambers is needed to repeal an urgent decree. The government could also include the privatization of some state-owned enterprises and delegation of powers. We believe congress would demand checks for each individual privatization. The government seeks to include items of the labor reform chapter from the DNU (suspended by courts).

Risks to our base case

Locals we met are less optimistic about the chances of privatization proposals and delegation of powers. There are doubts about whether Milei would forfeit some proposals to reach the agreement (like privatization). The split in Congress increases uncertainties about approving the pact, especially in the Senate where the Peronist opposition is four seats short of a blocking majority. The lower house looks easier to do (some agreements were already reached in the Omnibus bill debate). A potential rejection of the DNU in the Senate could lead delays in the negotiations. The government is proposing to reinstate the income taxes eliminated last year (0.4% of GDP revenue for the central government and 0.5% of GDP for the provinces). However, a group of governors in principle reject the idea, including the Patagonic provinces that have high wages related to the energy sector. In our view, this tax is crucial to replace the transitory revenue obtained via the import tax (Impuesto Pais). Note that the government is also hiking fuel taxes, expected to collect additional 0.4% of GDP.

Pension formula proposals: fiscal impact

We believe a new pension formula indexed to CPI (vs wages and tax revenue currently) has gathered a consensus in the government and pro-dialogue opposition. One opposition party sent a bill to index pensions to the CPI monthly increase (two-month lag) plus a compensation of about 20%. We understand the government accepts this indexation mechanism, but that it is offering a smaller compensation of about 10%. We are constructive that this item would be included if a more general agreement with governors is reached. A new pension formula is important to consolidate the fiscal

adjustment, as with the current one pension spending balloons if inflation declines (1.3% of GDP additional spending in 2025, after a 1.7% GDP drop this year, or a cumulative -0.4%). In turn, with CPI indexation starting in April plus 10% compensation, pensions drop to 1.3% of GDP this year and increase 0.3% in 2025 (cumulative -1%). If compensation is 20%, pensions drop to 1% of GDP in 2024 and increase 0.4% in 2025 (cumulative -0.6%). Our calculations assume real wages constant at December's level and inflation at 205% in 2024 and 100% in 2025.

Milei's popularity seems resilient so far: higher probability of continuation

In our recent trip to Buenos Aires, locals saw Milei's popularity as quite resilient to the adjustment so far because the people still sees the previous government as responsible for the economic catastrophe. Protests so far are surprisingly scarce considering the adjustment. However, locals are monitoring the social impact of large utility price hikes through May. Analysts we met seem to be increasing at the margin the probability of favorable scenarios (Milei muddling through or succeeding), reducing the probability of an extremely negative discontinuation scenario.

Strong Recession supports the disinflation

inflation dropped from 13.2% mom (vs 15% Bloomberg consensus) from 20.6% in Feb (25.5% in Dec). The accumulated inflation YTD was 36.6%. Core inflation was 12.3%. In the 12 months, inflation rose to 276% from 254% in January. The items with the highest increases were Communications (24.7% mom), Transport (21.6%) and Housing, water, electricity (20.2%). Food increased 11.9% mom. In Buenos Aires, inflation was 15% mom. Inflation would have accelerated the first month of March. The government accelerated allocation of USD to import of food and basic goods to counter act it (also with transitory cuts in VAT taxes). March is challenging as electricity prices started to adjust. Cuts in energy subsidies will include SMEs and middle-to-low-income households, which should have a political impact (and risks of court orders to slow the process).

BCRA cut the policy interest rate to 80% from 100%, which does not help on inflation. However, the negative real rates help to erode BCRA liabilities, and it was an incentive to participate in the government debt swap. Locals expect Inflation to continue declining, likely to one digit by June once the utility price adjustment is completed. The recession is larger than expected and could reach a GDP contraction between 4% and 5%. Additional \$15bn in exports cushion the shock. Fiscal consolidation has been impressive (targeting 5% of GDP adjustment), but there are doubts about its sustainability without laws, as discussed above.

Slowly: FX depreciation and capital controls.

The central bank is seen as not in a hurry to accelerate the exchange rate (keeping a 2% monthly crawling peg so far) despite concerns about currency overvaluation, perhaps in part not to affect the ongoing negotiations, BCRA (central bank) continues accumulating international reserves, but in part due to gradual allocation of imports. The government is also not in a rush to lift capital controls, waiting for a cleaner BCRA balance sheet (including more reserves accumulation). In our view, a mega peso debt swap completed this week paves the way to lifting capital controls (as it removes rollover risks). The completion of relative price correction by June (utilities), could also make room for FX policy recalibration. We expect an acceleration of the ARS no later than by the end of April and start of lifting capital controls by June.

Mega peso debt swap reached \$50bn

77% of this year government peso debt maturities were exchanged by a basket of 4 CPI indexed bonds (0% coupon) maturing 2025-2028. Extending average life from 0.5 years to 3 years. Interest payments were reduced by 0.1% of GDP. Participation was about 17.5% for the private sector and almost 100% for the public sector holdings. This leaves peso debt maturities of only around \$20bn for this year. This removes rollover risks and locks low real interest payments, removing a hurdle to remove capital controls in the future, in our view.

Key forecasts

Exhibit 16: Economic forecasts

GDP growth, inflation and policy rate forecasts for the major economies

Economic forecasts

	2023Q1	2023Q2	2023Q3	2023Q4	2024Q1	2024Q2	2024Q3	2024Q4	2022	2023F	2024F	2025F
Global and Regional Aggregates, %												
United States												
Real GDP growth ¹	2.2	2.1	4.9	3.2	2.5	2.0	2.0	2.0	1.9	2.5	2.7	1.9
CPI inflation	5.8	4.0	3.6	3.2	3.2	3.4	3.2	3.0	8.0	4.1	3.2	2.5
Policy Rate (EoP)	4.88	5.13	5.38	5.38	5.38	5.13	4.88	4.63	4.38	5.38	4.63	3.63
Euro area												
Real GDP growth ¹	0.2	0.5	-0.2	-0.2	0.2	0.9	0.9	1.1	3.5	0.5	0.4	1.1
CPI inflation	8.0	6.2	5.0	2.7	2.7	2.5	2.1	1.9	8.4	5.5	2.3	1.4
Policy Rate (EoP)	3.00	3.50	4.00	4.00	4.00	3.75	3.50	3.25	2.00	4.00	3.25	2.00
China												
Real GDP growth ²	4.5	6.3	4.9	5.2	4.3	5.0	4.8	5.0	3.0	5.2	4.8	4.6
CPI inflation ³	1.3	0.1	-0.1	-0.3	0.1	0.5	0.9	1.7	2.0	0.4	0.8	1.7
Policy Rate (EoP)	3.65	3.55	3.45	3.45	3.45	3.45	3.30	3.00	3.65	3.45	3.00	2.90
Japan												
Real GDP growth ¹	4.0	4.2	-3.2	0.4	-3.7	5.6	3.0	1.0	1.0	1.9	0.4	1.4
CPI inflation	3.6	3.4	3.1	2.9	2.5	2.5	2.6	2.2	2.5	3.3	2.5	1.9
Policy Rate (EoP)	-0.10	-0.10	-0.10	-0.10	0.05	0.05	0.05	0.25	-0.10	-0.10	0.25	0.5
Global Aggregate ⁴												
Real GDP growth									3.5	3.0	2.9	3.2
CPI inflation									6.0	4.2	3.0	2.7
Policy Rate (EoP)									4.5	5.2	4.7	4.1
Emerging Markets Aggregate ⁴												
Real GDP growth									4.2	4.1	4.0	4.3
Real GDP growth (ex-China)									4.9	3.5	3.5	4.2
CPI inflation									4.8	3.8	3.1	3.2
Policy Rate (EoP)									5.7	5.9	5.5	5.1

Note: Bold values correspond to forecasted data. Notes: 1. Quarterly values are % q/q annualized | 2. Quarterly values are % y/y. | 3. Quarterly values are period averages. | 4. Due to reporting limitations, Global and EM aggregate are annual only. **Source:** BofA Global Research

BofA GLOBAL RESEARCH

Exhibit 17: Markets forecasts

Forecasts for FX, interest rates, commodities and equities

Markets forecasts

	spot	2024Q1	2024Q2	2024Q3	2024Q4	2025Q1
Exchange Rates (EoP)						
EUR/USD	1.09	1.07	1.10	1.12	1.15	1.16
USD/JPY	148.3	145	143	142	142	140
USD/CNY	7.19	7.45	7.40	7.10	6.90	6.90
GBP/USD	1.28	1.26	1.31	1.33	1.37	1.36
Interest rates (% EoP)						
US 10yr	4.29	4.40	4.30	4.25	4.25	NA
Bunds 10yr	2.43	2.45	2.35	2.25	2.10	NA
Japan 10yr	0.78	0.70	0.85	0.95	1.05	1.05
Commodities ¹						
Oil - Brent (\$/bbl)	85.4	78.0	80.0	82.0	80.0	NA
Oil - WTI (\$/bbl)	81.1	73.0	75.0	77.0	75.0	NA
Gold (\$/oz)	2161.6	1950	1950	2000	2000	2100
Equities (EoP)						
S&P 500	5150				5400	
Stoxx 600	506				410	

Note: Bold values correspond to forecasted data. Notes: 1. All values are EoP, except for gold forecasts, which are period averages. **Source:** BofA Global Research

BofA GLOBAL RESEARCH

Detailed forecasts

Global economic forecasts

Exhibit 18: Global Economic Forecasts

Global GDP growth expected at 2.9% in 2024

	GDP growth, %				CPI inflation*, %				Short term interest rates**, %			
	2022F	2023F	2024F	2025F	2022F	2023F	F	2025F	Current	2023F	2024F	2025F
Global and regional aggregates												
Global	3.5	3.0	2.9	3.2	6.0	4.2	3.0	2.7	6.15	5.20	4.72	4.06
Global ex US	3.9	3.2	3.0	3.5	5.5	4.2	2.9	2.8	6.33	5.16	4.74	4.16
Global ex China	3.7	2.5	2.4	2.8	7.0	5.2	3.6	3.0	6.89	5.71	5.23	4.41
Developed Markets	2.6	1.5	1.4	1.5	7.4	4.7	2.7	2.0	4.21	4.27	3.65	2.72
Emerging Markets	4.2	4.1	4.0	4.3	4.8	3.8	3.1	3.2	7.69	5.93	5.53	5.06
Emerging Markets ex China	4.9	3.5	3.5	4.2	6.5	5.8	4.5	4.1	10.30	7.58	7.23	6.50
Europe, Middle East and Africa (EMEA)	3.9	1.0	1.1	2.1	8.0	7.0	4.4	3.2	9.50	5.85	5.86	4.62
European Union	3.1	0.6	0.8	1.6	9.2	6.5	2.6	1.8	4.35	4.39	3.58	2.38
Emerging EMEA	4.6	2.1	2.5	4.0	7.6	9.3	8.1	6.2	19.66	9.98	11.57	10.13
Emerging Asia	4.2	5.0	4.8	4.8	3.6	2.3	1.9	2.4	4.28	4.38	3.98	3.76
ASEAN	5.8	4.2	4.7	4.9	4.6	3.6	1.5	2.7	4.89	4.92	4.39	3.86
Latin America	4.1	2.1	1.5	2.3	7.7	5.0	3.6	3.4	10.69	10.88	8.59	7.66
G6												
US	1.9	2.5	2.7	1.9	8.0	4.1	3.2	2.5	5.38	5.38	4.63	3.63
Euro area	3.5	0.5	0.4	1.1	8.4	5.5	2.3	1.4	4.00	4.00	3.25	2.00
Japan	1.0	1.9	0.4	1.4	2.5	3.3	2.5	1.9	-0.10	-0.10	0.25	0.50
UK	4.3	0.1	0.3	0.8	9.1	7.3	2.4	2.3	5.25	5.25	4.75	3.75
Canada	3.8	1.1	1.3	2.4	6.8	3.9	2.5	2.1	5.00	5.00	3.75	3.00
Australia	3.6	1.8	1.4	2.0	6.6	5.7	3.4	2.9	4.35	4.35	4.35	3.50
Euro area												
Germany	1.9	-0.1	-0.2	0.9	8.6	6.1	2.7	1.4	4.00	4.00	3.25	2.00
France	2.5	0.9	0.7	1.3	5.9	5.7	2.9	2.0	4.00	4.00	3.25	2.00
Italy	4.1	1.0	0.5	1.1	8.7	6.0	1.8	1.5	4.00	4.00	3.25	2.00
Spain	5.8	2.5	1.6	1.5	8.3	3.4	2.6	1.1	4.00	4.00	3.25	2.00
Netherlands	4.4	0.1	0.6	1.1	11.6	4.1	1.8	1.6	4.00	4.00	3.25	2.00
Belgium	3.0	1.5	1.0	1.2	10.3	2.3	1.8	1.7	4.00	4.00	3.25	2.00
Austria	4.8	-0.7	0.1	1.5	8.6	7.7	2.8	2.1	4.00	4.00	3.25	2.00
Greece	5.7	2.0	1.1	1.7	9.3	4.2	2.0	1.7	4.00	4.00	3.25	2.00
Portugal	6.8	2.2	1.0	1.4	8.1	5.4	2.5	1.1	4.00	4.00	3.25	2.00
Ireland	9.6	-3.3	2.0	2.5	8.1	5.8	2.9	1.6	4.00	4.00	3.25	2.00
Finland	1.3	-0.9	-0.3	1.0	7.2	4.3	1.0	1.2	4.00	4.00	3.25	2.00
Other developed economies												
New Zealand	2.5	1.2	0.8	2.0	7.2	5.8	3.0	2.5	5.50	5.50	3.75	3.00
Switzerland	2.7	0.9	1.1	1.2	2.8	2.2	1.3	1.2	-0.75	1.75	1.25	0.50
Norway	3.7	1.1	0.4	1.2	6.2	5.3	3.7	2.8	4.50	4.50	4.00	3.00
Sweden	2.7	0.0	-0.2	1.4	7.7	8.5	2.5	1.6	4.00	4.00	3.25	2.00
Emerging Asia												
China	3.0	5.2	4.8	4.6	2.0	0.4	0.8	1.7	3.45	3.45	3.00	2.90
India	6.7	6.5	5.7	6.0	6.7	5.6	4.7	4.3	6.50	6.75	6.50	6.25
Indonesia	5.3	5.0	5.1	5.2	4.2	3.7	2.8	2.8	6.00	6.00	5.25	4.25
Korea	2.6	1.4	2.3	2.5	5.1	3.6	2.3	2.0	3.50	3.50	3.00	2.50
Taiwan	2.6	1.4	3.2	2.3	2.9	2.5	2.0	1.5	1.88	1.88	1.88	1.88
Thailand	2.7	1.8	2.6	2.8	6.1	1.6	0.8	0.9	2.50	2.50	2.00	1.75
Malaysia	8.7	3.7	4.4	4.8	3.4	2.5	2.0	2.5	3.00	3.00	3.00	3.00
Philippines	7.6	5.6	5.4	5.5	5.8	6.0	3.3	3.1	6.50	6.50	5.50	4.50
Singapore	3.6	1.1	2.6	2.6	6.1	4.8	2.8	2.3				
Hong Kong	-3.5	3.2	2.1	2.4	1.9	2.1	2.0	1.9	4.68	5.75	5.00	4.00
Vietnam	8.0	5.0	6.2	6.8	3.2	3.4	3.8	4.1	4.50	4.50	4.50	5.00

Source: BofA Global Research

BofA GLOBAL RESEARCH

Exhibit 19: Global Economic Forecasts (continued)

Global GDP growth expected at 2.9% in 2024

	GDP growth, %					CPI inflation*, %				Short term interest rates**, %			
	2022F	2023F	2024F	2025F		2022F	2023F	2024F	2025F	Current	2023F	2024F	2025F
Latin America													
Brazil	2.9	3.0	2.2	2.5	9.3	4.6	3.8	3.7		11.25	11.75	9.50	9.50
Mexico	3.9	3.2	1.8	1.0	7.9	5.5	4.5	4.4		11.25	11.25	9.25	7.50
Argentina	5.2	-1.6	-3.5	3.5	72.4	133.5	283.2	152.9		80.00	100.00	60.00	55.00
Colombia	7.3	0.6	1.4	2.8	10.2	11.8	6.4	4.0		12.75	13.00	9.50	6.00
Chile	2.4	0.1	2.2	2.0	11.6	7.3	3.2	3.0		7.25	8.25	5.00	4.75
Peru	2.7	-0.6	2.5	2.9	7.9	6.3	2.3	2.5		6.25	6.75	4.00	4.00
Ecuador	6.2	2.7	1.0	2.4	3.7	1.3	1.7	2.1					
Uruguay	4.9	1.1	3.3	2.0	8.3	5.1	5.4	5.5					
Costa Rica	4.6	5.1	4.2	3.8	7.9	-1.8	2.3	3.0		5.75	6.00	5.00	5.00
Dominican Republic	4.9	2.4	5.3	5.0	7.8	3.6	4.2	4.9		7.00	7.00	6.25	6.00
Panama	10.8	6.0	2.0	3.6	2.1	1.9	1.7	1.5					
El Salvador	2.6	2.8	2.7	2.8	7.3	1.2	1.9	1.4					
Guatemala	4.1	3.5	3.5	4.0	9.2	4.2	3.9	4.3		5.00	5.00	4.25	4.25
EEMEA													
Türkiye	5.6	4.3	3.4	4.6	72.0	53.4	56.9	29.3		45.00	42.50	45.00	30.00
Nigeria	3.3	2.5	3.1	3.1	18.8	24.5	24.0	15.0		22.75	18.75	25.00	20.00
Egypt	6.7	3.8	2.5	3.8	8.5	24.4	32.0	24.0		27.75	18.25	27.25	26.00
Poland	5.5	0.0	3.0	3.5	14.3	11.6	4.1	4.8		5.75	5.75	5.75	4.75
South Africa	1.9	0.6	1.3	1.5	6.9	5.9	4.9	4.5		8.25	8.25	7.50	7.25
Romania	4.6	1.9	3.0	3.7	13.7	10.5	5.6	4.0		7.00	7.00	6.25	5.25
Czech Republic	2.4	-0.4	1.0	2.6	15.1	10.7	2.1	1.9		6.25	6.75	3.50	3.00
Israel	6.5	2.0	2.3	3.4	4.4	4.2	2.5	2.2		4.50	4.75	3.50	2.20
Hungary	4.6	-0.8	2.8	3.0	14.6	17.1	4.0	3.9		9.00	10.75	6.00	5.00
Saudi Arabia	8.7	-0.9	0.1	4.5	2.5	2.6	2.2	2.1		5.50	6.00	5.25	4.25
Ukraine	-29.1	6.3	4.5	8.0	20.0	13.4	7.0	8.0		14.50	15.00	14.00	13.00

Source: BofA Global Research

BofA GLOBAL RESEARCH

Exhibit 20: Real GDP growth, qoq annualized %

Global GDP growth expected at 2.9% in 2024

	1Q 2023	2Q 2023	3Q 2023	4Q 2023	1Q 2024	2Q 2024	3Q 2024	4Q 2024	2023	2024	2025
Developed Markets											
United States	2.2	2.1	4.9	3.2	2.5	2.0	2.0	2.0	2.5	2.7	1.9
Euro Area	0.2	0.5	-0.2	-0.2	0.2	0.9	0.9	1.1	0.5	0.4	1.1
Japan	4.0	4.2	-3.2	0.4	-3.7	5.6	3.0	1.0	1.1	1.3	1.2
United Kingdom	0.9	0.0	-0.5	-1.4	0.6	1.0	1.4	1.2	0.1	0.3	0.8
Canada	2.6	0.6	-0.5	1.0	1.8	1.7	2.1	2.3	1.1	1.3	2.4
Australia	-	-	-	-	-	-	-	-	1.8	1.4	2.0
G6 Aggregate	1.7	1.6	1.6	1.3	0.8	1.9	1.7	1.5	1.5	1.5	1.5
Emerging Markets											
China	8.7	2.4	6.1	4.1	4.8	5.1	5.2	4.8	5.2	4.8	4.6
Indonesia	6.0	5.2	2.9	4.1	5.7	7.0	3.6	4.1	5.0	5.1	5.2
Korea, Republic Of (South)	1.3	2.5	2.4	3.0	0.4	3.2	2.7	3.1	1.4	2.3	2.5
Thailand	6.6	0.9	2.4	-2.3	3.5	4.4	7.0	3.9	1.8	2.6	2.8
Singapore	-1.4	0.3	5.3	7.0	-3.9	3.2	3.6	4.1	1.1	2.6	2.6
Hong Kong	21.5	-3.5	1.9	2.0	7.7	-1.7	2.8	4.9	3.2	2.1	2.4
Brazil	7.5	7.5	1.1	0.1	5.8	0.8	2.2	1.1	3.0	2.2	2.5
Mexico	3.3	3.4	4.3	0.3	2.4	1.4	0.8	-0.2	3.2	1.8	1.0
Colombia	9.2	-4.1	1.4	0.1	2.0	2.4	2.8	2.8	0.6	1.4	2.8
Chile	0.2	1.6	1.3	2.1	2.7	3.3	2.5	1.9	0.1	2.2	2.0
Peru	-5.2	1.3	0.6	2.1	3.6	2.4	2.8	2.8	-0.6	2.5	2.9
Türkiye	-1.0	13.9	1.1	0.0	5.7	2.8	3.0	3.0	4.3	3.4	4.6
South Africa	-1.9	0.7	0.7	0.8	1.8	1.8	2.0	2.0	0.6	1.3	1.5

Source: BofA Global Research

BofA GLOBAL RESEARCH

Monetary policy forecasts

Exhibit 21: Key meeting dates and expected rate change (bp)

End of period

	Current	24-Jan	24-Feb	24-Mar	24-Apr	24-May	24-Jun
Developed Markets							
Fed	5.25	31st (unch)	-	20th (unch)	-	1st (unch)	12th (-25bp)
ECB	4.50	25th (unch)		7th (unch)	11th (unch)		6th (-25bp)
BoJ	-0.10	23rd (unch)		19th (unch)	26 (+10bp)		14th (unch)
BoE	5.25		1st (unch)	21st (unch)		9th (unch)	20th (unch)
BoC	5.00	24th (unch)	-	6th (unch)	10th (unch)	-	5th (-25bp)
Riksbank	4.00		1st (unch)	27th (unch)		8th (unch)	27th (-25bp)
SNB	1.75			21st (unch)			20th (unch)
Norges Bank	4.50	25th (unch)		21st (unch)		3rd (unch)	20th (unch)
RBA	4.35		5-6 (unch)	18-19 (unch)		6-7(unch)	17-18(unch)
RBNZ	5.50		28th (unch)		10th (-25bp)	22th(-25bp)	
Emerging Asia							
China (lending rate)	3.45	19th (unch)	19th (unch)	19th (unch)	19th (unch)	19th (unch)	19th (unch)
Req. res. ratio*	10.00	-	-	-	-	-	-
India**	6.75	-	8th (unch)	-	-	-	-
Repo rate	6.50	-	-	-	-	-	-
Cash res. ratio	4.50	-	-	-	-	-	-
Korea	3.50	11th (unch)	22nd (unch)	-	12th (unch)	23rd (-25bp)	-
Indonesia	6.00	Unch	Unch	Unch	Unch	Unch	-25bp
Taiwan	1.88	-	-	21st (unch)	-	-	20th (unch)
Thailand	2.50	-	7th (unch)	-	10th (unch)	-	12th (unch)
Malaysia	3.00	13th (unch)	23rd (unch)	-	12th (unch)	24th (unch)	-
Philippines	6.50	-	Unch	Unch	-	Unch	-25bp
Latin America							
Brazil	11.25	(-50bp)		20th (-50bp)		8th (-50bp)	19th (-50bp)
Chile	7.25	(-100bp)			2nd (-25bp)	23rd (-25bp)	18th (-25bp)
Colombia	12.75	(-25bp)	-	(-25bp)	(-25bp)	-	(-50bp)
Mexico	11.25	-	(unch)	21st (-25bp)	-	9th (-25bp)	27th (-25bp)
Peru	6.25	(unch)	(-25bp)	(unch)	(-25bp)	(unch)	(-25bp)
Emerging EMEA							
Czech Republic	6.25		08th (-25bp)	20th (-25bp)		02nd (-50bp)	27th (-50bp)
Hungary	9.00	(-50bp)	(-50bp)	(-50bp)	(-50bp)	(-50bp)	(-50bp)
Israel	4.50	1st(unch)	26th(unch)	-	8th(unch)	27th(-50)	-
Poland	5.75	(unch)	(unch)	(unch)	(unch)	(unch)	(unch)
Romania	7.00	(unch)	(unch)		(unch)	(-25bp)	
South Africa	8.25	25th (unch)	-	21st (unch)	-	23rd(unch)	-
Türkiye	45.00	(unch)	(unch)	(unch)	25th(+500bp)	(unch)	

Note: Bolded data are expectations in basis points. "—" denotes no meeting. TBA: MPC meeting not yet set. *Major five banks. **Reverse repo rate.

Source: BofA Global Research, Central Banks

BofA GLOBAL RESEARCH

FX, rates and commodity forecasts

Exhibit 22: Quarterly forecasts

End of period

	Spot	23-Dec	24-Mar	24-Jun	24-Sep	24-Dec
FX forecasts						
G6						
EUR-USD	1.09	1.05	1.07	1.10	1.12	1.15
USD-JPY	148	153	145	143	142	142
EUR-JPY	161	161	155	157	159	163
GBP-USD	1.27	1.21	1.26	1.31	1.33	1.37
USD-CAD	1.35	1.36	1.35	1.34	1.32	1.30
AUD-USD	0.66	0.64	0.66	0.68	0.71	0.71
Asia						
USD-CNY	7.19	7.40	7.45	7.40	7.10	6.90
USD-INR	82.83	83.00	83.00	82.50	82.00	82.00
USD-IDR	15582	15500	15600	15500	15300	15200
USD-KRW	1318	1300	1325	1300	1265	1230
Latin America						
USD-BRL	4.99	4.85	4.90	4.88	4.80	4.75
USD-MXN	16.70	16.97	17.80	18.00	18.30	18.50
Emerging Europe						
EUR-PLN	4.29	4.34	4.30	4.25	4.23	4.20
USD-RUB	118.69	89.47	76.00	77.00	78.00	80.00
USD-TRY	32.20	29.53	32.00	35.00	37.00	40.00
USD-ZAR	18.74	18.36	19.00	19.20	18.50	18.00
Rates forecasts						
US 10-year	4.29	4.50	4.40	4.30	4.25	4.25
Germany 10-year	2.43	2.70	2.45	2.35	2.25	
Japan 10-year	0.78	0.61	0.70	0.85	0.95	1.05
UK 10-year	4.09		4.00	4.00	4.00	4.00
Canada 10-year	3.53	3.75	3.70	3.65	3.65	3.60
Commodities forecasts						
WTI Crude Oil - \$/bbl	81.01	82.00	73.00	75.00	77.00	75.00
Brent Crude Oil - \$/bbl	85.42	86.00	78.00	80.00	82.00	80.00
Gold \$/oz	2161.73	1900.00	1950.00	1950.00	2000.00	2000.00

Notes: Spot exchange rate as of day of publishing. The left of the currency pair is the denominator of the exchange rate. Currency forecasts are for end of period

Source: BofA Global Research, Bloomberg

BofA GLOBAL RESEARCH

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.

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.

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.

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.

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

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

Refer to [BofA Global Research policies relating to conflicts of interest](#).

"BofA Securities" includes BofA Securities, Inc. ("BofAS") and its affiliates. Investors should contact their BofA Securities representative or Merrill Global Wealth Management financial advisor if they have questions concerning this report or concerning the appropriateness of any investment idea described herein for such investor. "BofA Securities" is a global brand for BofA Global Research.

Information relating to Non-US affiliates of BofA Securities and Distribution of Affiliate Research Reports:

BofAS and/or Merrill Lynch, Pierce, Fenner & Smith Incorporated ("MLPF&S") may in the future distribute, information of the following non-US affiliates in the US (short name: legal name, regulator): Merrill Lynch (South Africa): Merrill Lynch South Africa (Pty) Ltd., regulated by The Financial Service Board; MLI (UK): Merrill Lynch International, regulated by the Financial Conduct Authority (FCA) and the Prudential Regulation Authority (PRA); BofASE (France): BofA Securities Europe SA is authorized by the Autorité de Contrôle Prudentiel et de Résolution (ACPR) and regulated by the ACPR and the Autorité des Marchés Financiers (AMF). BofA Securities Europe SA ("BofASE") with registered address at 51, rue La Boétie, 75008 Paris is registered under no 842 602 690 RCS Paris. In accordance with the provisions of French Code Monétaire et Financier (Monetary and Financial Code), BofASE is an établissement de crédit et d'investissement (credit and investment institution) that is authorised and supervised by the European Central Bank and the Autorité de Contrôle Prudentiel et de Résolution (ACPR) and regulated by the ACPR and the Autorité des Marchés Financiers. BofASE's share capital can be found at www.bofam.com/BofASEdisclaimer; BofA Europe (Milan): Bank of America Europe Designated Activity Company, Milan Branch, regulated by the Bank of Italy, the European Central Bank (ECB) and the Central Bank of Ireland (CBI); BofA Europe (Frankfurt): Bank of America Europe Designated Activity Company, Frankfurt Branch regulated by BaFin, the ECB and the CBI; BofA Europe (Madrid): Bank of America Europe Designated Activity Company, Sucursal en España, regulated by the Bank of Spain, the ECB and the CBI; Merrill Lynch (Australia): Merrill Lynch Equities (Australia) Limited, regulated by the Australian Securities and Investments Commission; Merrill Lynch (Hong Kong): Merrill Lynch (Asia Pacific) Limited, regulated by the Hong Kong Securities and Futures Commission (HKSF); Merrill Lynch (Singapore): Merrill Lynch (Singapore) Pte Ltd, regulated by the Monetary Authority of Singapore (MAS); Merrill Lynch (Canada): Merrill Lynch Canada Inc, regulated by the Canadian Investment Regulatory Organization; Merrill Lynch (Mexico): Merrill Lynch Mexico, SA de CV, Casa de Bolsa, regulated by the Comisión Nacional Bancaria y de Valores; Merrill Lynch (Argentina): Merrill Lynch Argentina SA, regulated by Comisión Nacional de Valores; BofAS Japan: BofA Securities Japan Co., Ltd., regulated by the Financial Services Agency; Merrill Lynch (Seoul): Merrill Lynch International, LLC Seoul Branch, regulated by the Financial Supervisory Service; Merrill Lynch (Taiwan): Merrill Lynch Securities (Taiwan) Ltd., regulated by the Securities and Futures Bureau; BofAS India: BofA Securities India Limited, regulated by the Securities and Exchange Board of India (SEBI); Merrill Lynch (Israel): Merrill Lynch Israel Limited, regulated by Israel Securities Authority; Merrill Lynch (DIFC): Merrill Lynch International (DIFC Branch), regulated by the Dubai Financial Services Authority (DFSA); Merrill Lynch (Brazil): Merrill Lynch S.A. Corretora de Títulos e Valores Mobiliários, regulated by Comissão de Valores Mobiliários; Merrill Lynch KSA Company: Merrill Lynch Kingdom of Saudi Arabia Company, regulated by the Capital Market Authority.

This information has been approved for publication and is distributed in the United Kingdom (UK) to professional clients and eligible counterparties (as each is defined in the rules of the FCA and the PRA) by MLI (UK), which is authorized by the PRA and regulated by the FCA and the PRA - details about the extent of our regulation by the FCA and PRA are available from us on request; has been approved for publication and is distributed in the European Economic Area (EEA) by BofASE (France), which is authorized by the ACPR and regulated by the ACPR and the AMF; has been considered and distributed in Japan by BofAS Japan, a registered securities dealer under the Financial Instruments and Exchange Act in Japan, or its permitted affiliates; is issued and distributed in Hong Kong by Merrill Lynch (Hong Kong) which is regulated by HKSF; is issued and distributed in Taiwan by Merrill Lynch (Taiwan); is issued and distributed in India by BofAS India; and is issued and distributed in Singapore to institutional investors and/or accredited investors (each as defined under the Financial Advisers Regulations) by Merrill Lynch (Singapore) (Company Registration No 198602883D). Merrill Lynch (Singapore) is regulated by MAS. Merrill Lynch Equities (Australia) Limited (ABN 65 006 276 795), AFS License 235132 (MLEA) distributes this information in Australia only to 'Wholesale' clients as defined by s.761G of the Corporations Act 2001. With the exception of Bank of America N.A., Australia Branch, neither MLEA nor any of its affiliates involved in preparing this information is an Authorised Deposit-Taking Institution under the Banking Act 1959 nor regulated by the Australian Prudential Regulation Authority. No approval is required for publication or distribution of this information in Brazil and its local distribution is by Merrill Lynch (Brazil) in accordance with applicable regulations. Merrill Lynch (DIFC) is authorized and regulated by the DFSA. Information prepared and issued by Merrill Lynch (DIFC) is done so in accordance with the requirements of the DFSA conduct of business rules. BofA Europe (Frankfurt) distributes this information in Germany and is regulated by BaFin, the ECB and the CBI. BofA Securities entities, including BofA Europe and BofASE (France), may outsource/delegate the marketing and/or provision of certain research services or aspects of research services to other branches or members of the BofA Securities group. You may be contacted by a different BofA Securities entity acting for and on behalf of your service provider where permitted by applicable law. This does not change your service provider. Please refer to the [Electronic Communications Disclaimers](#) for further information.

This information has been prepared and issued by BofAS and/or one or more of its non-US affiliates. The author(s) of this information may not be licensed to carry on regulated activities in your jurisdiction and, if not licensed, do not hold themselves out as being able to do so. BofAS and/or MLPF&S is the distributor of this information in the US and accepts full responsibility for information distributed to BofAS and/or MLPF&S clients in the US by its non-US affiliates. Any US person receiving this information and wishing to effect any transaction in any security discussed herein should do so through BofAS and/or MLPF&S and not such foreign affiliates. Hong Kong recipients of this information should contact Merrill Lynch (Asia Pacific) Limited in respect of any matters relating to dealing in securities or provision of specific advice on securities or any other matters arising from, or in connection with, this information. Singapore recipients of this information should contact Merrill Lynch (Singapore) Pte Ltd in respect of any matters arising from, or in connection with, this information. For clients that are not accredited investors, expert investors or institutional investors Merrill Lynch (Singapore) Pte Ltd accepts full responsibility for the contents of this information distributed to such clients in Singapore.

General Investment Related Disclosures:

Taiwan Readers: Neither the information nor any opinion expressed herein constitutes an offer or a solicitation of an offer to transact in any securities or other financial instrument. No part of this report may be used or reproduced or quoted in any manner whatsoever in Taiwan by the press or any other person without the express written consent of BofA Securities.

This document provides general information only, and has been prepared for, and is intended for general distribution to, BofA Securities clients. Neither the information nor any opinion expressed constitutes an offer or an invitation to make an offer, to buy or sell any securities or other financial instrument or any derivative related to such securities or instruments (e.g., options, futures, warrants, and contracts for differences). This document is not intended to provide personal investment advice and it does not take into account the specific investment objectives,



financial situation and the particular needs of, and is not directed to, any specific person(s). This document and its content do not constitute, and should not be considered to constitute, investment advice for purposes of ERISA, the US tax code, the Investment Advisers Act or otherwise. Investors should seek financial advice regarding the appropriateness of investing in financial instruments and implementing investment strategies discussed or recommended in this document and should understand that statements regarding future prospects may not be realized. Any decision to purchase or subscribe for securities in any offering must be based solely on existing public information on such security or the information in the prospectus or other offering document issued in connection with such offering, and not on this document.

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

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.

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

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

BofA Securities, through business units other than BofA Global Research, may have issued and may in the future issue trading ideas or recommendations that are inconsistent with, and reach different conclusions from, the information presented herein. Such ideas or recommendations may reflect different time frames, assumptions, views and analytical methods of the persons who prepared them, and BofA Securities is under no obligation to ensure that such other trading ideas or recommendations are brought to the attention of any recipient of this information.

In the event that the recipient received this information pursuant to a contract between the recipient and BofAS for the provision of research services for a separate fee, and in connection therewith BofAS may be deemed to be acting as an investment adviser, such status relates, if at all, solely to the person with whom BofAS has contracted directly and does not extend beyond the delivery of this report (unless otherwise agreed specifically in writing by BofAS). If such recipient uses the services of BofAS in connection with the sale or purchase of a security referred to herein, BofAS may act as principal for its own account or as agent for another person. BofAS is and continues to act solely as a broker-dealer in connection with the execution of any transactions, including transactions in any securities referred to herein.

Copyright and General Information:

Copyright 2024 Bank of America Corporation. All rights reserved. iQdatabase® is a registered service mark of Bank of America Corporation. This information is prepared for the use of BofA Securities clients and may not be redistributed, retransmitted or disclosed, in whole or in part, or in any form or manner, without the express written consent of BofA Securities. BofA Global Research information is distributed simultaneously to internal and client websites and other portals by BofA Securities and is not publicly-available material. Any unauthorized use or disclosure is prohibited. Receipt and review of this information constitutes your agreement not to redistribute, retransmit, or disclose to others the contents, opinions, conclusion, or information contained herein (including any investment recommendations, estimates or price targets) without first obtaining express permission from an authorized officer of BofA Securities.

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

This information has been prepared independently of any issuer of securities mentioned herein and not in connection with any proposed offering of securities or as agent of any issuer of any securities. None of BofAS any of its affiliates or their research analysts has any authority whatsoever to make any representation or warranty on behalf of the issuer(s). BofA Global Research policy prohibits research personnel from disclosing a recommendation, investment rating, or investment thesis for review by an issuer prior to the publication of a research report containing such rating, recommendation or investment thesis.

Any information relating to the tax status of financial instruments discussed herein is not intended to provide tax advice or to be used by anyone to provide tax advice. Investors are urged to seek tax advice based on their particular circumstances from an independent tax professional.

The information herein (other than disclosure information relating to BofA Securities and its affiliates) was obtained from various sources and we do not guarantee its accuracy. This information may contain links to third-party websites. BofA Securities is not responsible for the content of any third-party website or any linked content contained in a third-party website. Content contained on such third-party websites is not part of this information and is not incorporated by reference. The inclusion of a link does not imply any endorsement by or any affiliation with BofA Securities. Access to any third-party website is at your own risk, and you should always review the terms and privacy policies at third-party websites before submitting any personal information to them. BofA Securities is not responsible for such terms and privacy policies and expressly disclaims any liability for them.

All opinions, projections and estimates constitute the judgment of the author as of the date of publication and are subject to change without notice. Prices also are subject to change without notice. BofA Securities is under no obligation to update this information and BofA Securities ability to publish information on the subject issuer(s) in the future is subject to applicable quiet periods. You should therefore assume that BofA Securities will not update any fact, circumstance or opinion contained herein.

Certain outstanding reports or investment opinions relating to securities, financial instruments and/or issuers may no longer be current. Always refer to the most recent research report relating to an issuer prior to making an investment decision.

In some cases, an issuer may be classified as Restricted or may be Under Review or Extended Review. In each case, investors should consider any investment opinion relating to such issuer (or its security and/or financial instruments) to be suspended or withdrawn and should not rely on the analyses and investment opinion(s) pertaining to such issuer (or its securities and/or financial instruments) nor should the analyses or opinion(s) be considered a solicitation of any kind. Sales persons and financial advisors affiliated with BofAS or any of its affiliates may not solicit purchases of securities or financial instruments that are Restricted or Under Review and may only solicit securities under Extended Review in accordance with firm policies.

Neither BofA Securities nor any officer or employee of BofA Securities accepts any liability whatsoever for any direct, indirect or consequential damages or losses arising from any use of this information.

Research Analysts

Global Economics

Claudio Irigoyen
Global Economist
BofAS
claudio.irigoyen@bofa.com

Antonio Gabriel
Global Economist
BofAS
antonio.gabriel@bofa.com

North America Economics

Michael Gapen
US Economist
BofAS
michael.gapen@bofa.com

Aditya Bhave
US Economist
BofAS
aditya.bhave@bofa.com

Stephen Juneau
US Economist
BofAS
stephen.juneau@bofa.com

Shruti Mishra
US and Global Economist
BofAS
smishra44@bofa.com

Jeseo Park
US Economist
BofAS
jeseo.park@bofa.com

Developed Europe Economics

Ruben Segura-Cayuela
Europe Economist
BofA Europe (Madrid)
ruben.segura-cayuela@bofa.com

Evelyn Herrmann
Europe Economist
BofASE (France)
evelyn.herrmann@bofa.com

Chiara Angeloni
Europe Economist
BofA Europe (Milan)
chiara.angeloni@bofa.com

Alessandro Infelise Zhou
Europe Economist
BofASE (France)
alessandro.infelise_zhou@bofa.com

Japan Economics

Takayasu Kudo
Japan and Asia Economist
BofAS Japan
takayasu.kudo@bofa.com

Izumi Devalier
Japan and Asia Economist
BofAS Japan
izumi.devalier@bofa.com

Australia Economics

Micaela Fuchila
Economist
Merrill Lynch (Australia)
micaela.fuchila@bofa.com

Emerging Asia Economics

Helen Qiao
China & Asia Economist
Merrill Lynch (Hong Kong)
helen.qiao@bofa.com

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

Aastha Gudwani
India Economist
BofAS India
aastha.gudwani@bofa.com

Pipat Luengnaruemitchai
Emerging Asia Economist
Kiatnakin Phatra Securities
pipat.luen@kkpfg.com

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

Benson Wu
China & Korea Economist
Merrill Lynch (Hong Kong)
benenson.wu@bofa.com

Ting Him Ho, CFA
Asia Economist
Merrill Lynch (Hong Kong)
tinghim.ho@bofa.com

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

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

Anna Zhou
China & Asia Economist
Merrill Lynch (Hong Kong)
anna.zhou@bofa.com

EEMEA Cross Asset Strategy and Economics

David Hauner, CFA >>
Global EM FI/FX Strategist
MLI (UK)
david.hauner@bofa.com

Mai Doan
CEE Economist
MLI (UK)
mai.doan@bofa.com

Vladimir Osakovskiy >>
EM Sovereign FI/EQ strategist
Merrill Lynch (DIFC)
vladimir.osakovskiy@bofa.com

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

Tatonga Rusike
Sub-Saharan Africa Economist
MLI (UK)
tatonga.rusike@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

Latin America Strategy and Economics

David Beker >>
Bz Econ/FI & LatAm EQ Strategy
Merrill Lynch (Brazil)
david.beker@bofa.com

Jane Brauer
Sovereign Debt FI Strategist
BofAS
jane.brauer@bofa.com

Carlos Capistran
Canada and Mexico Economist
BofAS
carlos.capistran@bofa.com

Pedro Diaz
Caribbean Economist
BofAS
pdiaz2@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)
natacha.perez@bofa.com

Sebastian Rondeau
Southern Cone & Venez Economist
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.

>> 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.

