

After the pandemic: Are we going back to normal?

Banco de la República

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AGEND/

Extraordinary measures over the crisis

Adjustments post-pandemic

New developments and challenges

Conclusions



As response to the economic crisis resulting from COVID-19, Banrep started using several resources and tools pursuing the following:

- Rapid response with significant impact
- Encourage credit dynamics
- Improve confidence
- Ensure liquidity
- Support growth and economic activity
- Provide support for an adequate functioning in:
 - Payment System
 - Foreign Exchange Market
 - Fixed Income Market
 - Credit Market

Several measures were implemented to achieve the former goals. The central bank worked in three main dimensions.



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Correct Markets functionin g Private debt purchases

Government debt purchases

Promote
Economic
activity
and credit

Lower MPR (-250 b.p.)

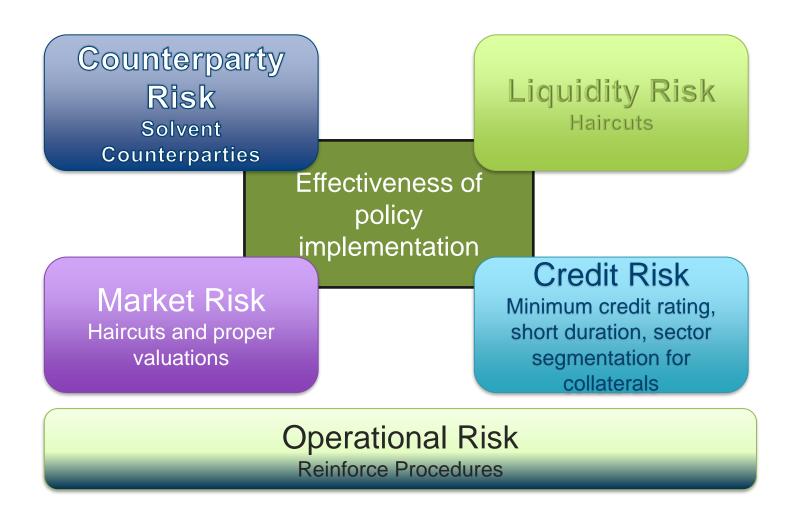
Reduced Reserves
requirements
Longer Maturities for Repo
operations

From 4,25% to 1,75%.

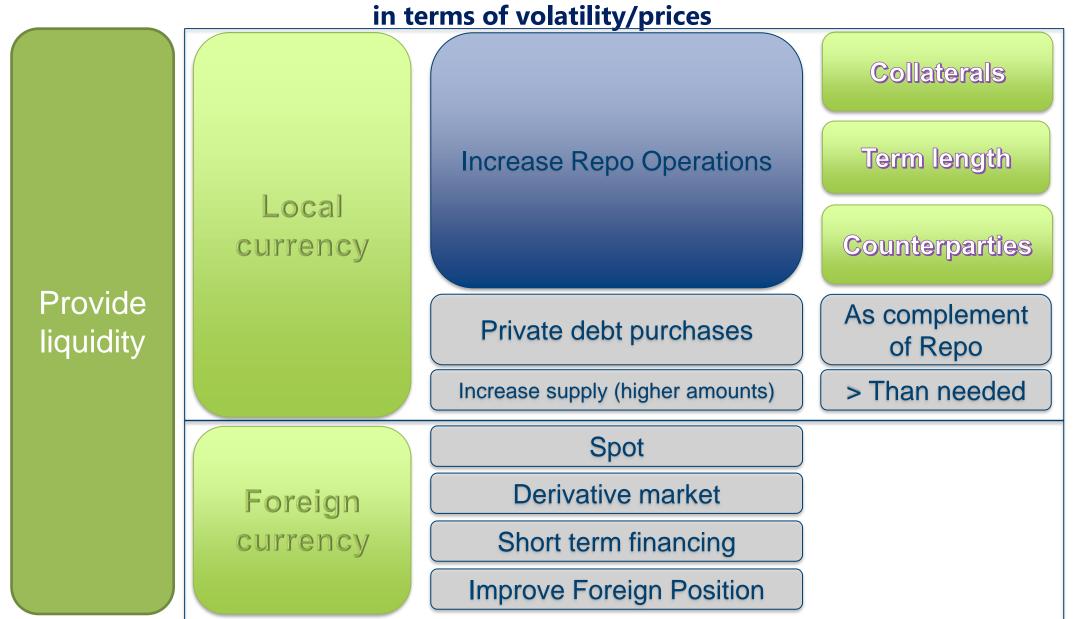
-2%. 7% to 5%. COP \$ 10 trillion (9.4% of the monetary base).

Using public debt (9 and 12 months) and loans (6 months)

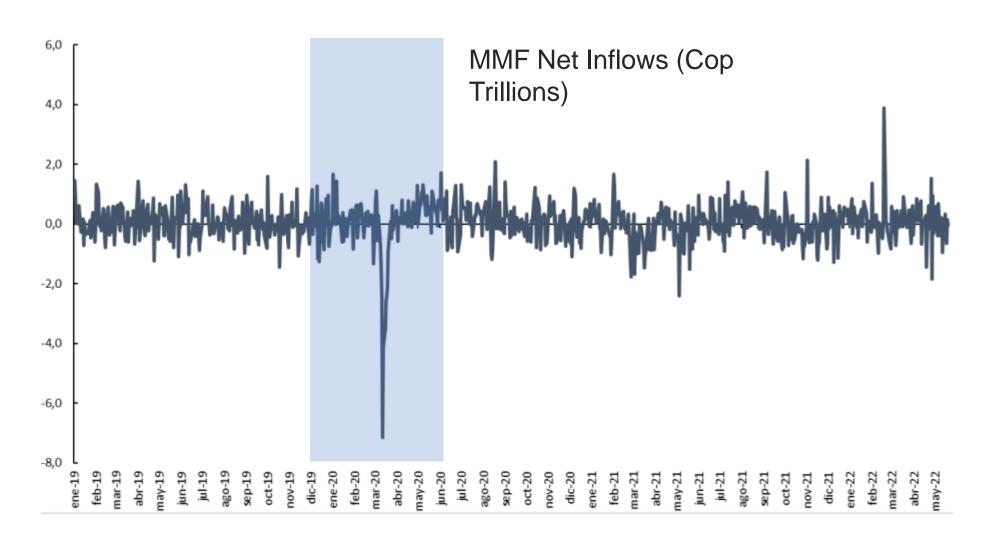
Key: Find the right balance of risks and policy implementation



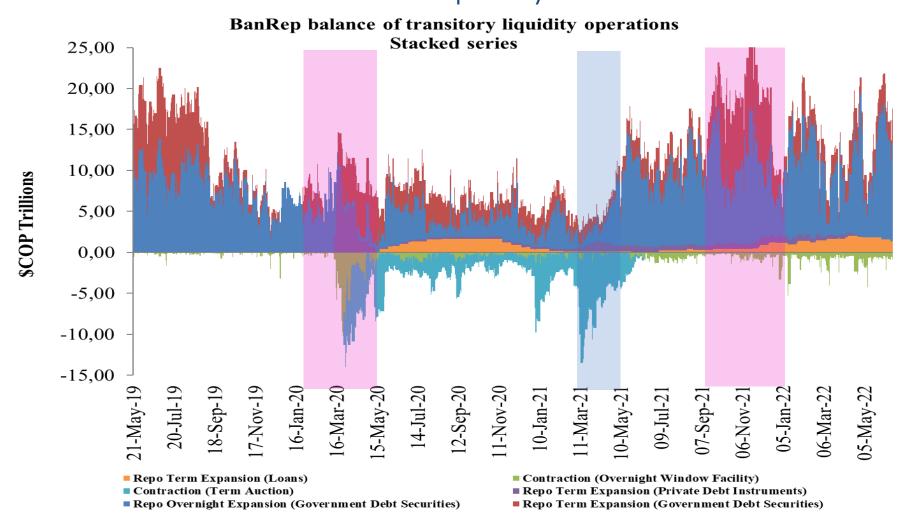
Some of the instruments are not operational however they are still part of the toolset of the central bank. The CB is no longer intervening in the FX market nor providing markets support



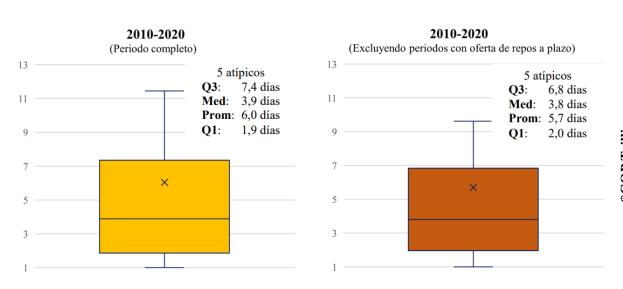
One of the main alerts after the beginning of the pandemic was the important outflows from MMF. After recent developments that behavior has not been observed



Maintain purchases and sales of government bonds as an important mechanism to provide and drain liquidity, improving the traction of monetary policy



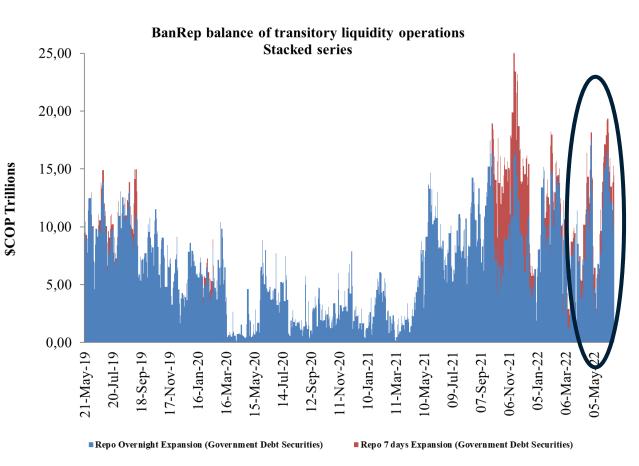
As a result of a persistent demand, and with the purpose of ensuring the liquidity to longer tenors BR implemented a regular 7-day repo in addition to its overnight operations



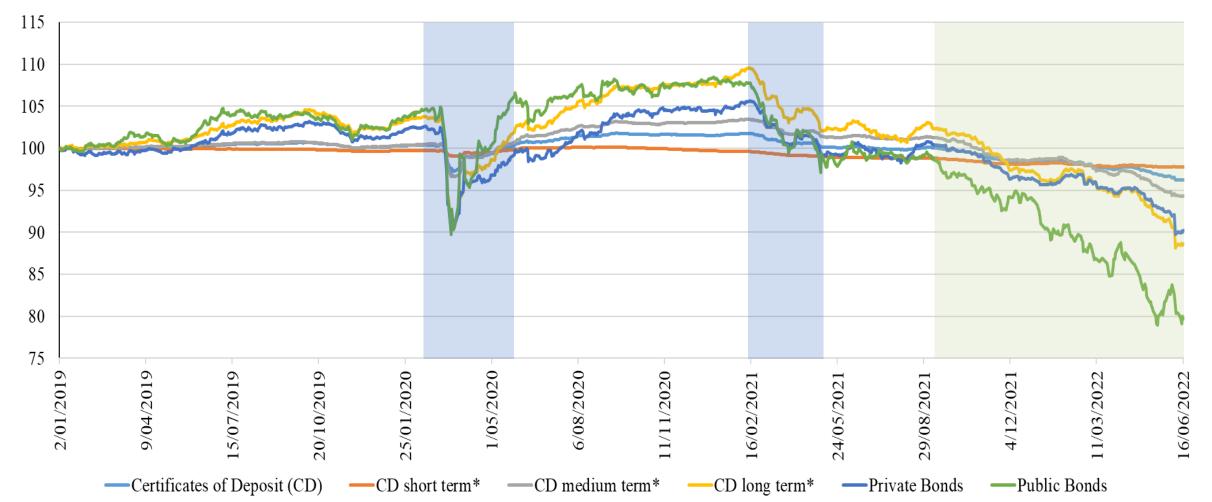
*Prom_j considera las participaciones individuales en la subasta de expansión overnight.

**La X indica el promedio. Med denota la mediana. Q1 y Q3 corresponden a los cuartiles 1 y 3, respectivamente.

Fuente: Elaboración propia con información del BanRep.



After the pandemic turmoil, markets have been closely linked to local factors and recently to the dynamics of global financial conditions – monitoring is key to identify possible speculative moves affecting the transmission of monetary policy



Source: DECEVAL and Banco de la República. Information updated until June 16,2022

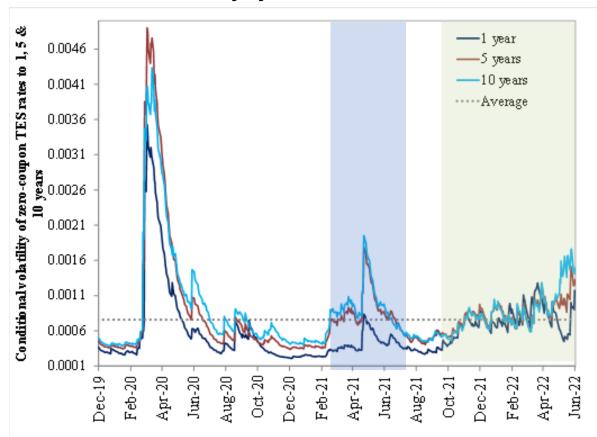
^{*}CD maturity less than or equal to 365 days

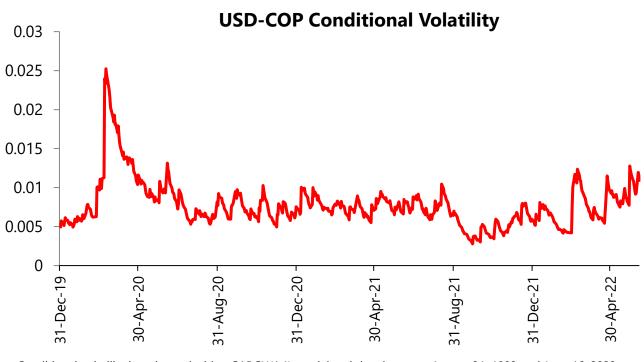
^{**}CD maturity greater than 365 days and less than and equal to 1095 days.

^{***} CD greater than 1095 days.

Alongside with the downward trend in asset prices, volatility has increased although it has not reached the levels observed at the beginning of the crisis

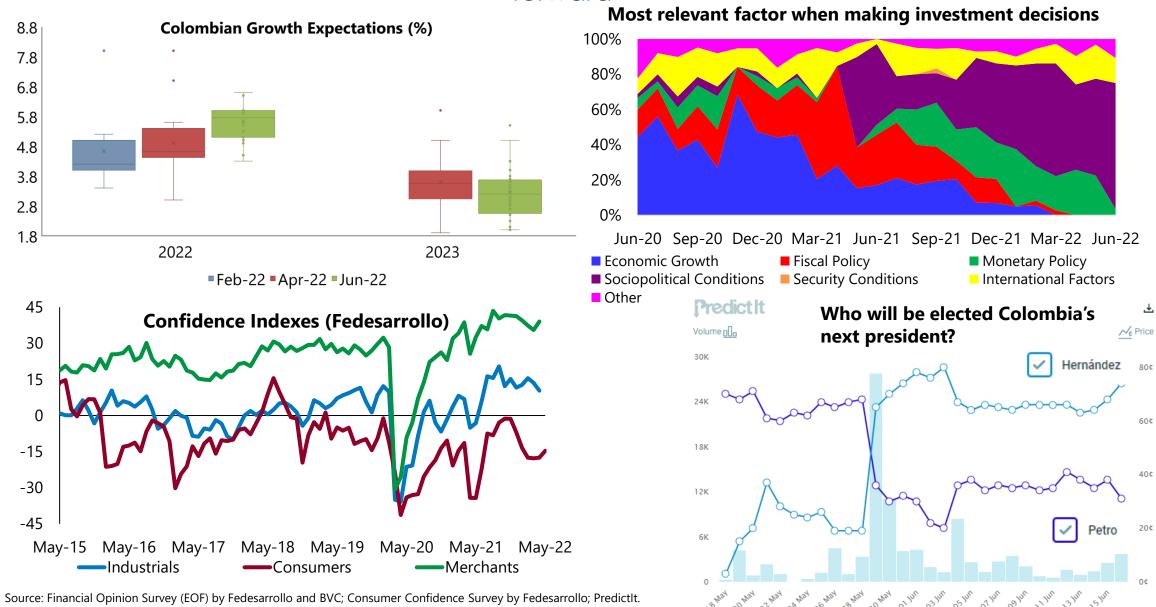
Conditional volatility by tenor in colombian debt market



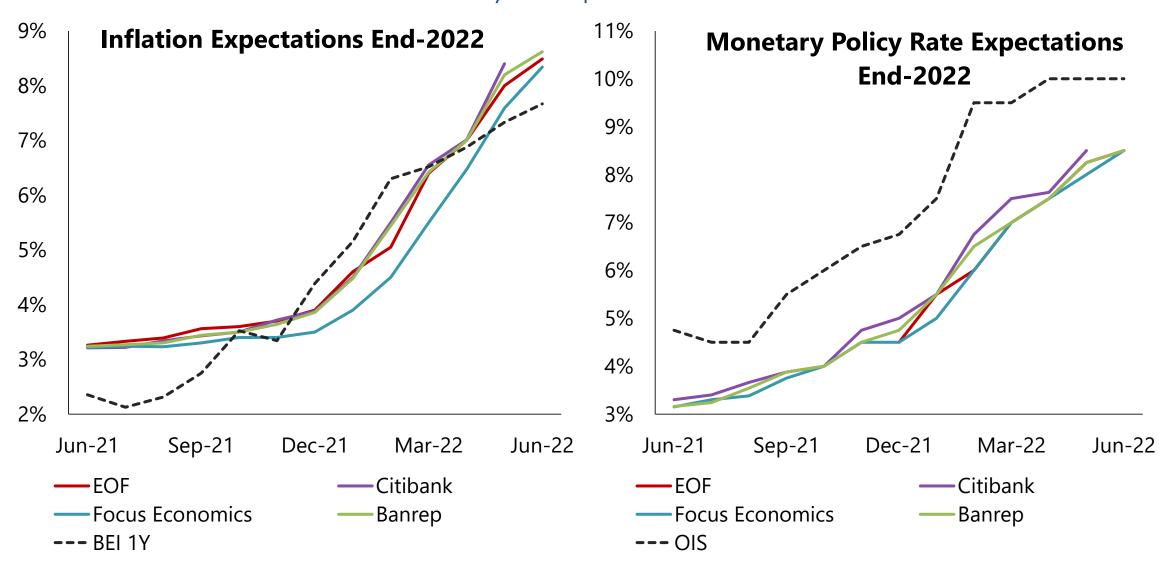


Conditional volatility is estimated with a GARCH(1,1) model and data between August 21, 1992 and June 16, 2022.

GDP has recovered since 2020 and economic dynamics have shown a healthy evolution. However international and local factor can be counting in an importan adjustment going forward

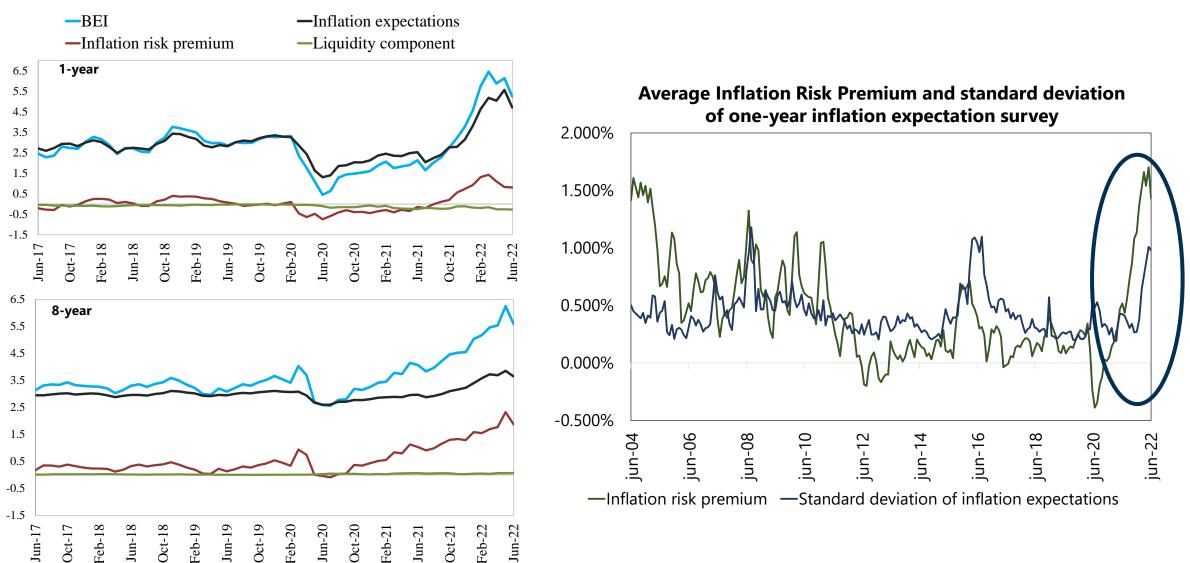


Inflation is moving up in tandem with global inflation. Although the monetary policy response is moving in the same directions, some divergence appeared between Asset prices and financial analysts' expectation.



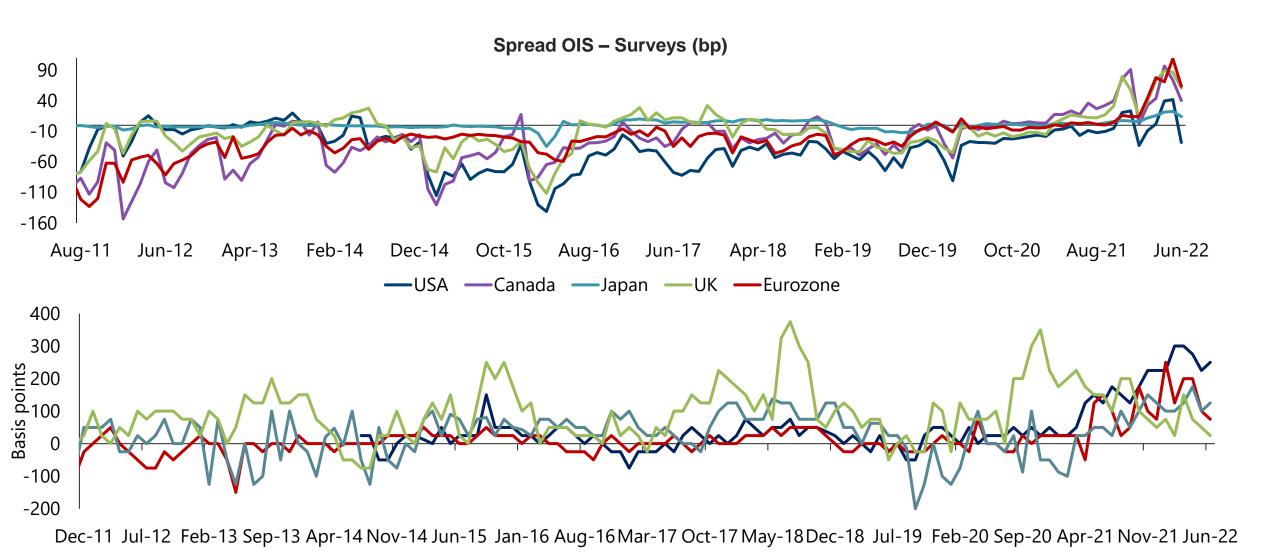
On the inflation side, and important component of expectations come from an inflationary risk premium. The latter has been correlated with uncertainty market uncertainty.

BEI decomposition



Source: Precia and Banrep monthly expectations survey. Data up to June 16th/2022

On the MPR side, it seems that the same behavior has been evident for other developed and emerging economies



-México 12M

Brasil 12M

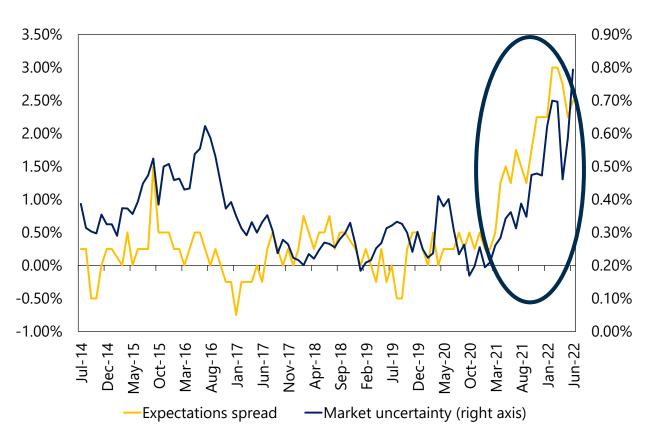
—Chile 12M

Source: Bloomberg, surveys by Focus Economics and the Central Banks of Colombia, Chile, Mexico and Brazil.

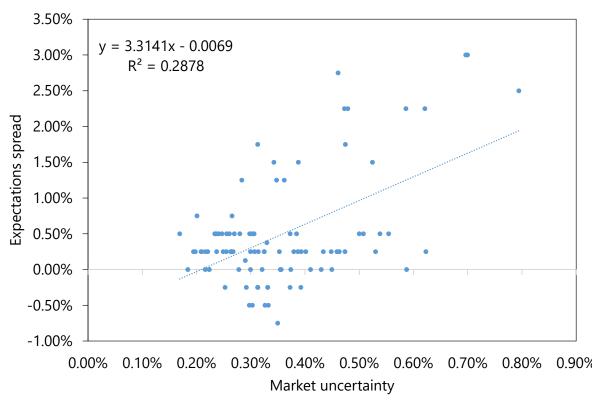
-Colombia 12M

For the local case, in line with inflation expectations, that divergence seems to be correlated with market uncertainty. Therefore, it is particularly important to filter out the implied premium to better understand what market is pricing in.

Spread between market and survey expectations and standard deviation of survey expectations

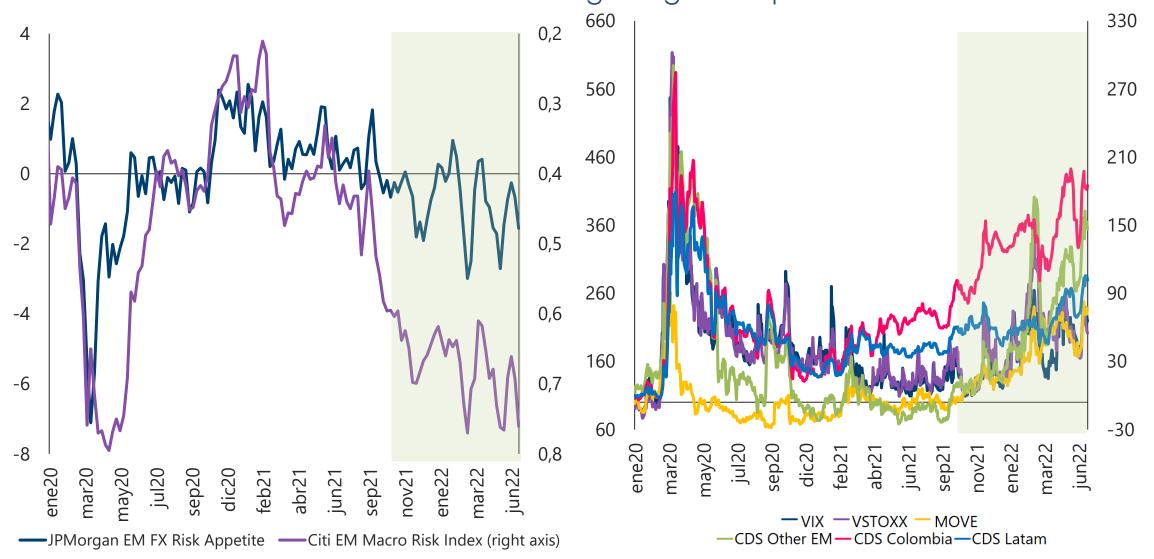


Correlation between expectation spread and uncertainty of MPR expectations

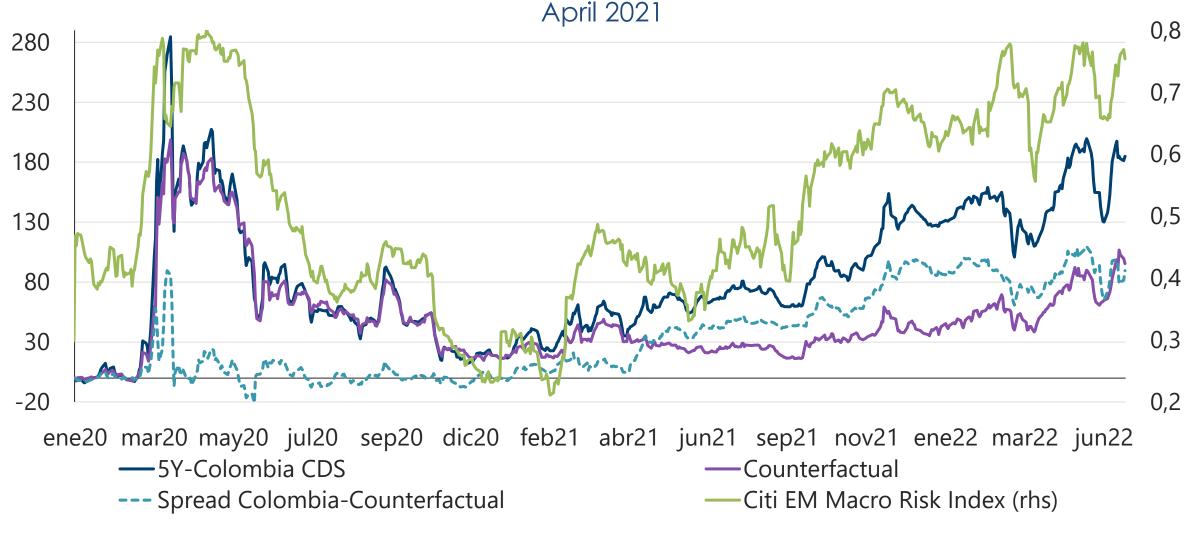


Source: Bloomberg and Banrep monthly expectations survey. **Note**: Market uncertainty refers to standard deviation of expectations from one year monetary policy rate.

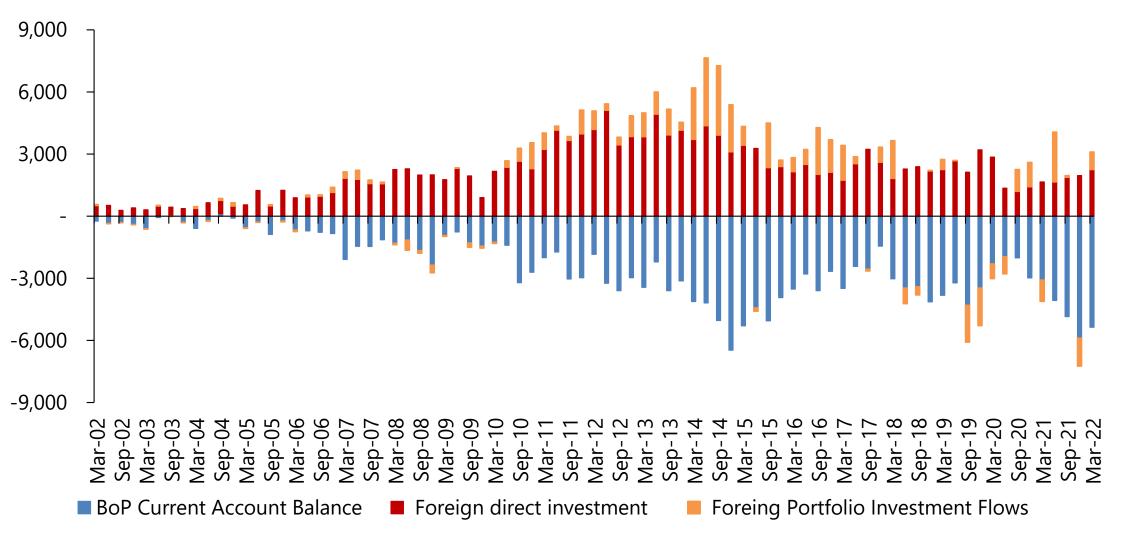
High Risk Aversion in Emerging Markets (Citi Macro EM Risk Index). Current levels are close to those observed at the beginning of the pandemic



Assessing the factors underlying the trend of risk premium is key on the reaction function of CB. The spread between the 5Y-Colombia CDS and its counterfactual has widened since

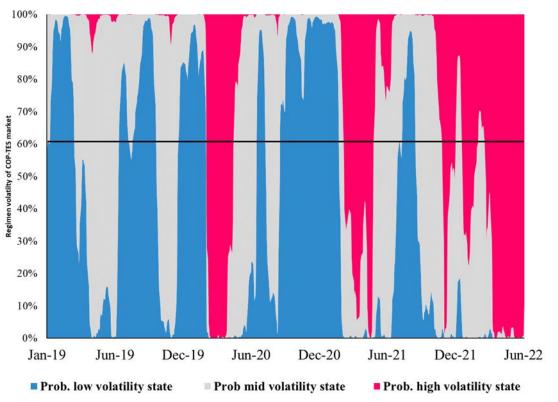


Colombia's current account deficit is partially hedge by a steady FDI, however the gap make us vulnerable to changes in portfolio flows. Current market conditions increase potential risks

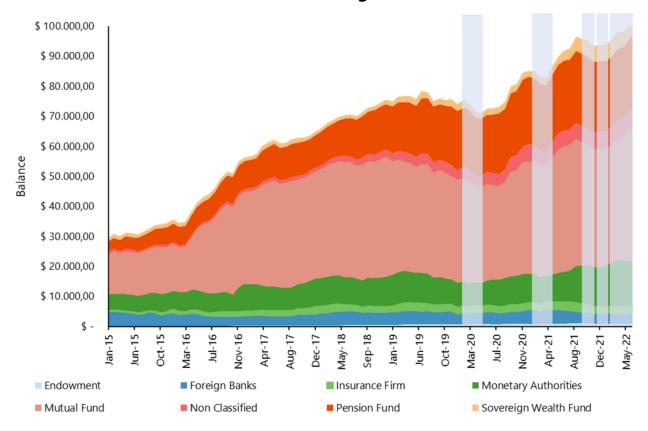


Although in recent ditressed scenarios foreigners have not been particularly volatile, it is important o assess potential risks and developments

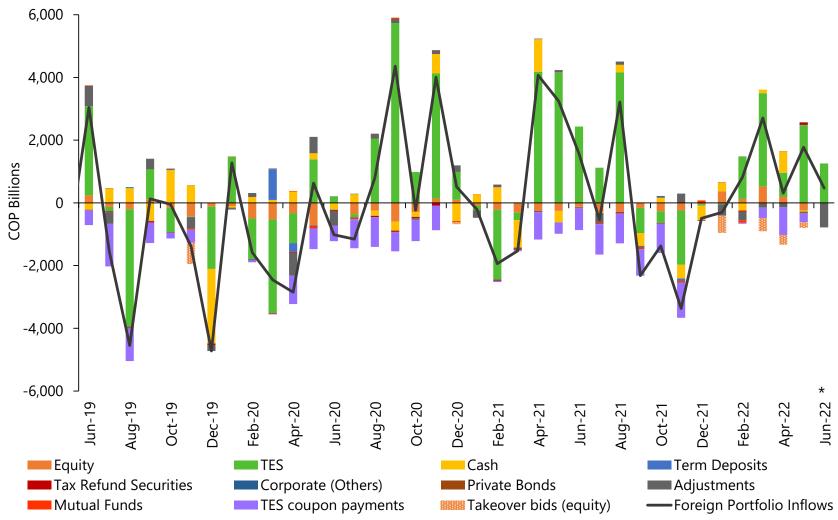
Regimen probabilities in colombian debt market



Balance of foreign investors



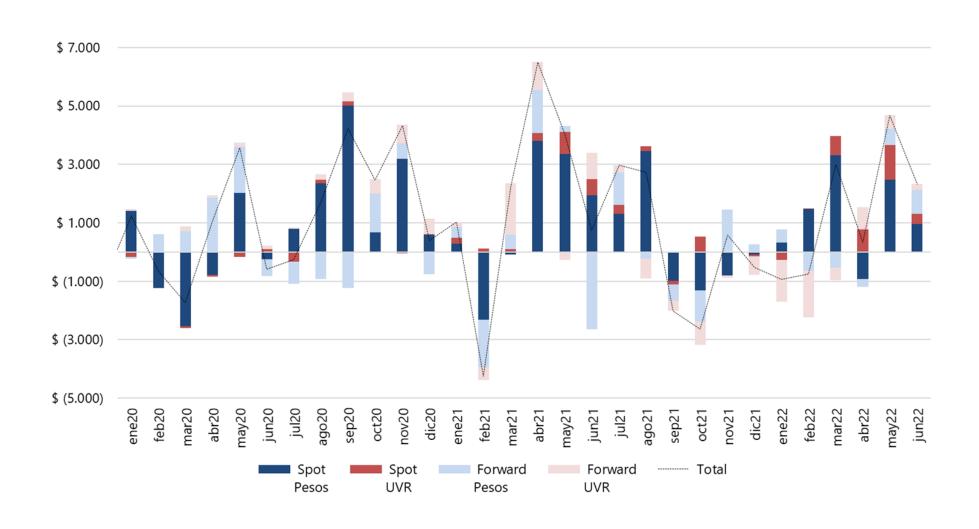
Albeit recent developments, foreign portfolio investment flows in Colombia have remained positive



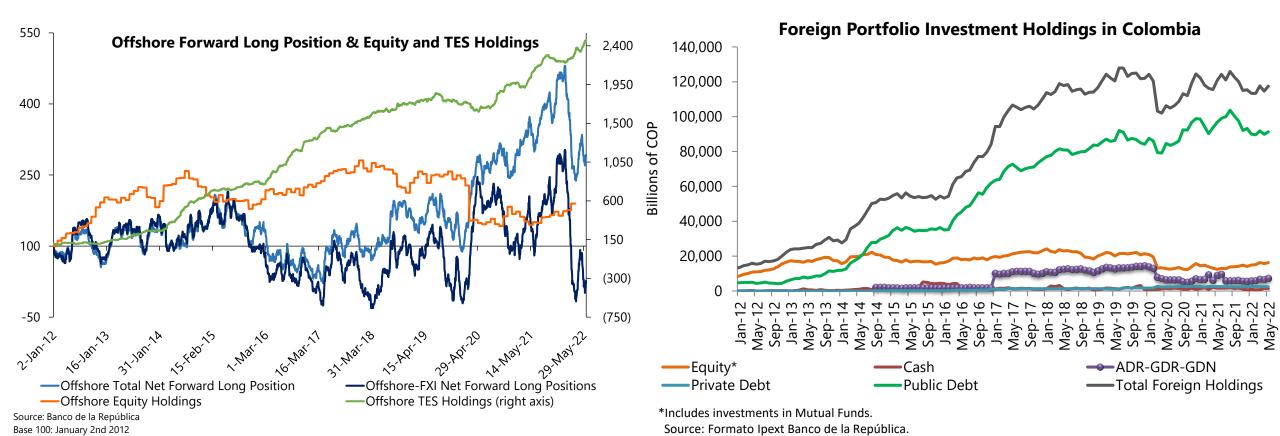
Corporate (Others) includes: convertible bonds in shares, pension bonds, public bonds, associations CDs, mortgage securities and participation securities. Private bonds includes: ordinary bonds and commercial papers.

^{*} Adjustments: includes some profits and returns. Φ Foreign Portfolio Investment as of june 9, for this month only the value of TES is shown.

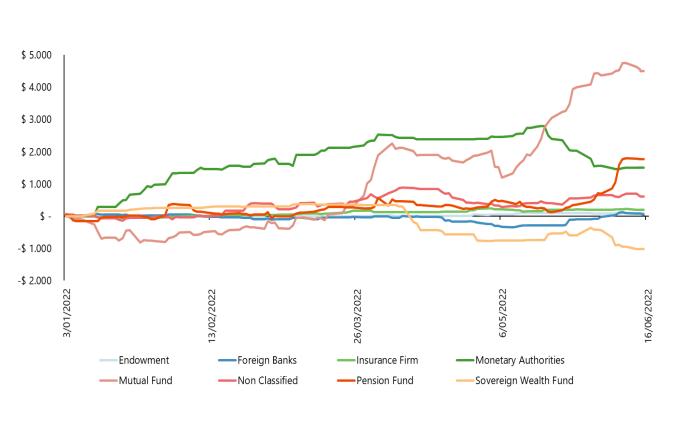
...also when counting in the derivative market



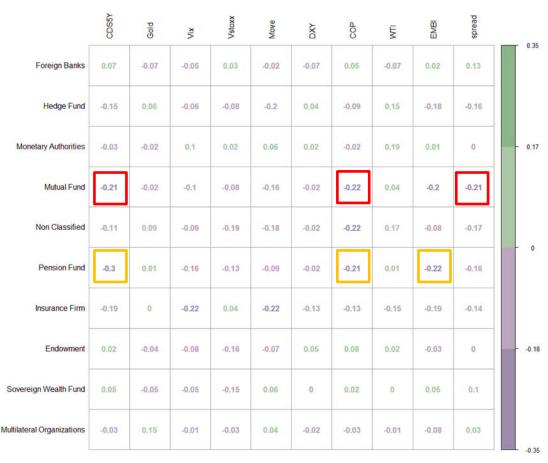
Foreigners are important holders of local debt. Hence, stalled flows are worrisome, but a reversal can be particularly disruptive



The nature of foreign investors can be relevant to understand risks. Some inflows came from agents that seems to be procyclical



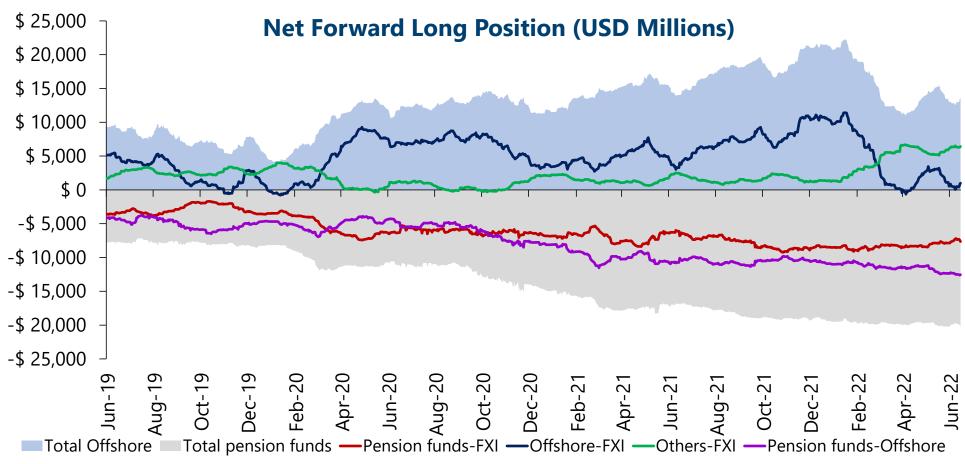
Correlation with risk market variables



...Recent foreing investments appear to be offsetting other factors



That has been the case for FX exposure too. There is no evidence of a particular speculative trend in the FX market.



Source: Banco de la República. Updated information at June 15th 2022.

Total Offshore includes the net balances of the Offshore with FX intermediaries (FXI) and the Offshore with Pension Funds and Total Pension Funds (PF) includes net balances of PF with FXI and PF with the Offshore.

Since December 7th 2020 this graph is calculated with the information of the operations reported by the Foreign Exchange Trading and Registration Systems.

Conclusions

- Intervention of CB bank has been particularly important to restore confidence and to normalize market dynamics.
- Benefits outnumber costs in the process of defining alternatives to support the market, but a right balance must be incorporated in the strategies.
- Operability is key.
- Risk are not over, and some new circumstances may arise, therefore it is important to be prepared.
- Moreover, risks particularly towards EM seem to be building up given global factors (Inflation and monetary policy responses, shadows of recession and economic downturns).

Thanks