

Brazil Opportunities Conference

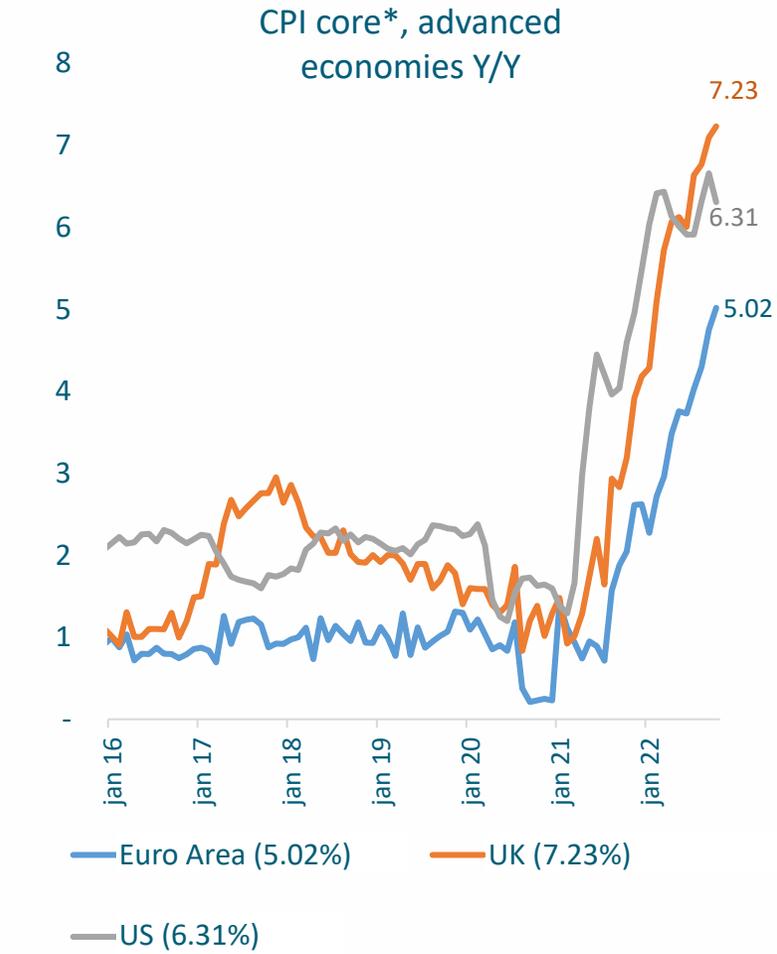
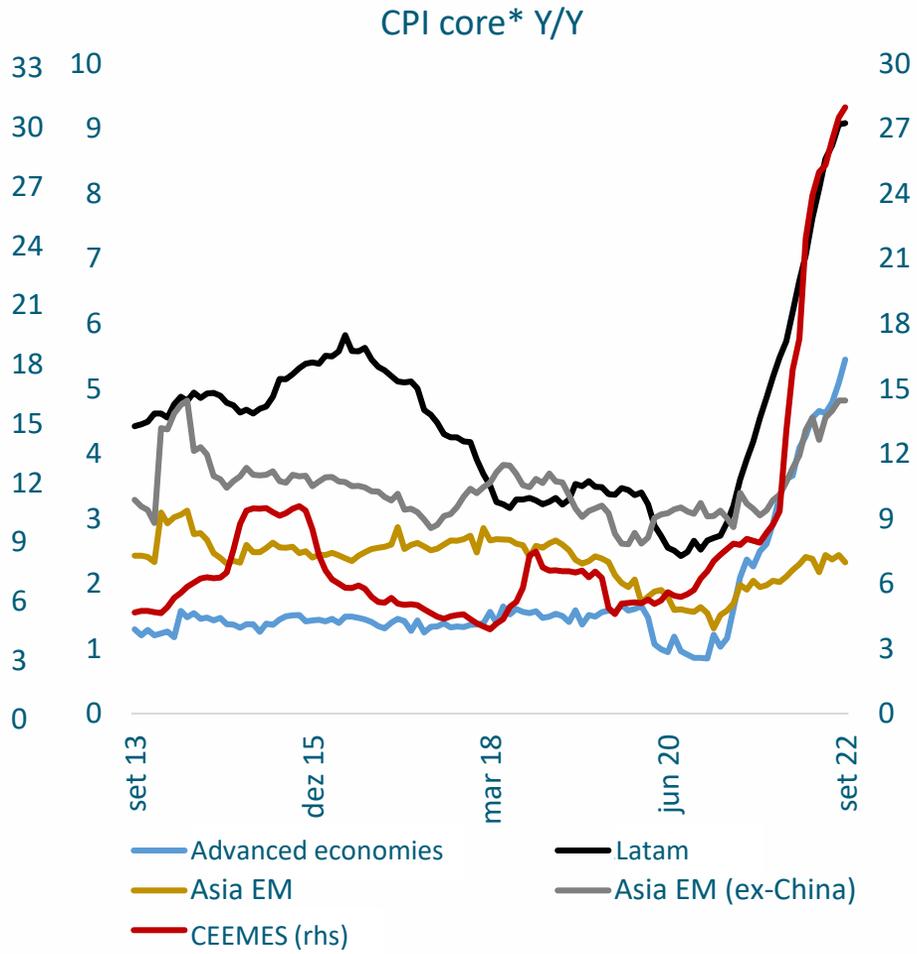
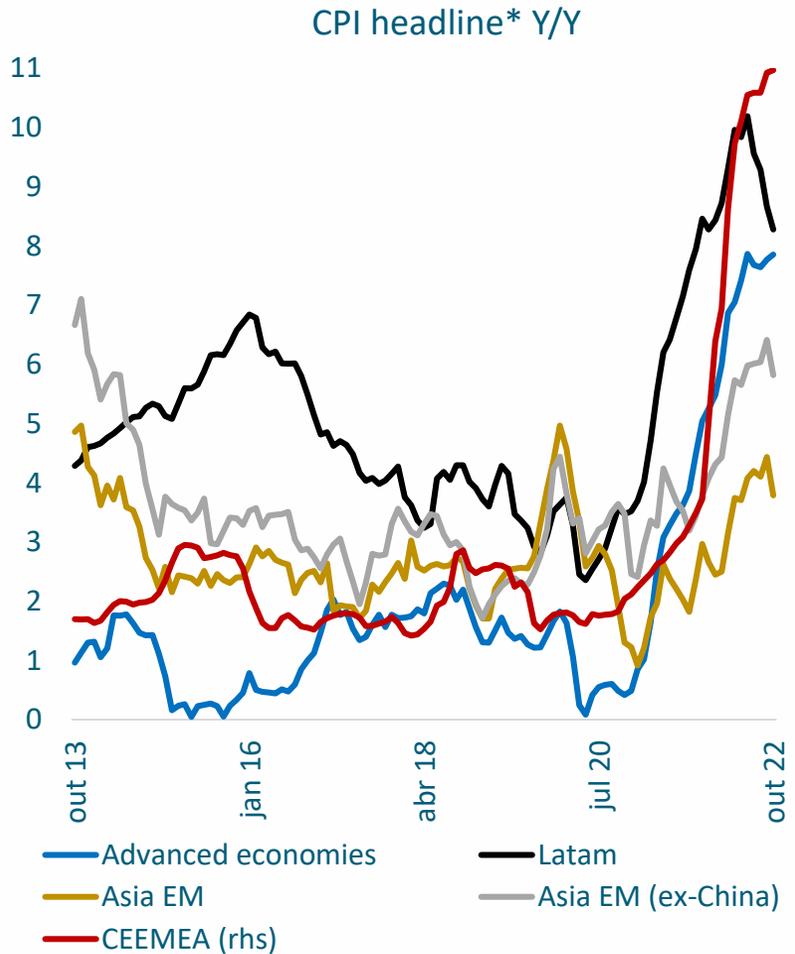
Banco Central do Brasil

Diogo Guillén – Deputy Governor of Economic Policy

November 29th, 2022

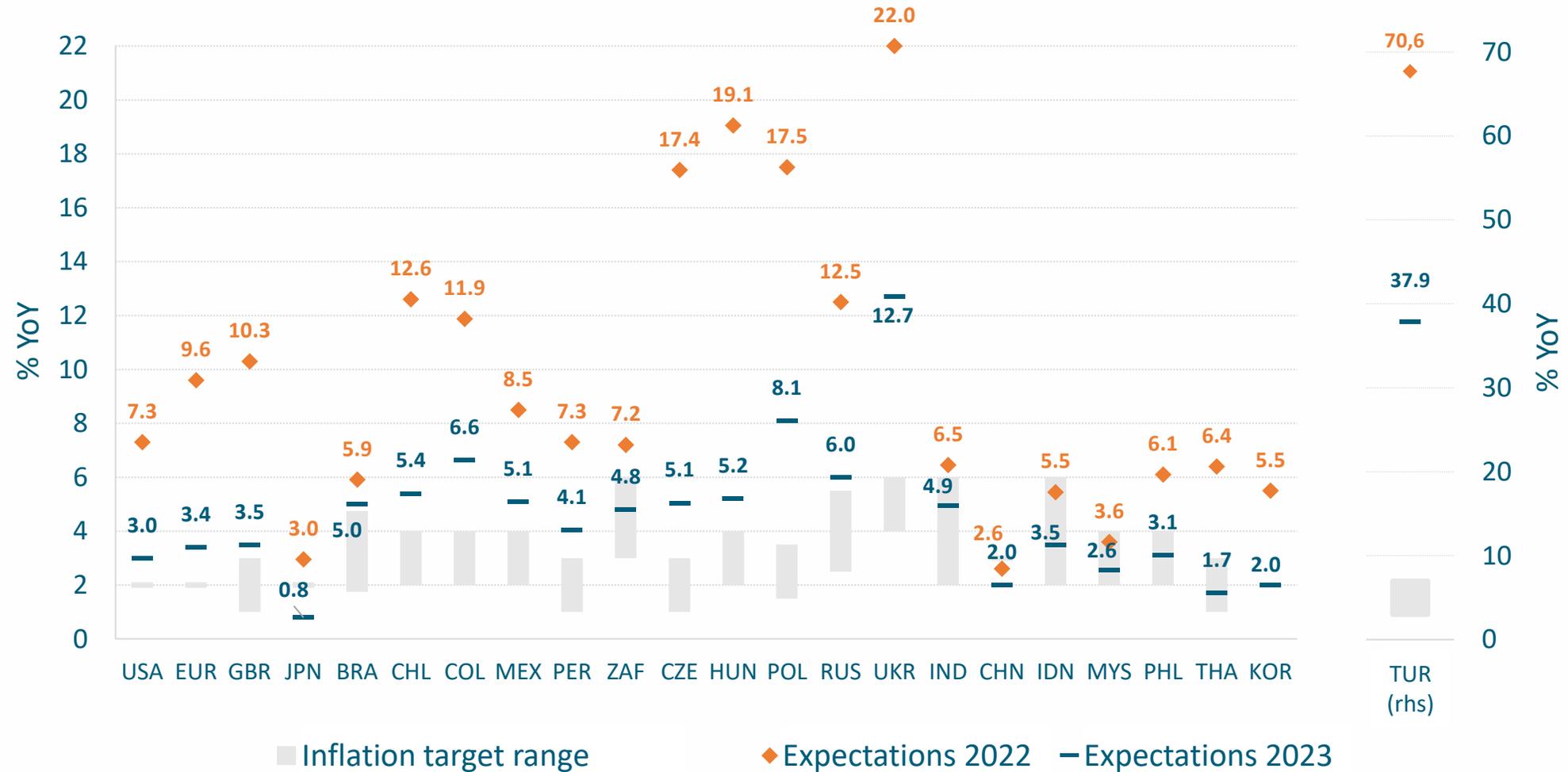
Global outlook

Inflationary environment remains pressured



* Weighted by PPP; Latam: BRA, MEX, CHL, COL, PER; CEEMEA: ZAF, TUR, RUS, BGR, CZE, HUN, POL, ROU, SVK; Asia EM: CHN, IDN, IND, KOR, HKG, MYS, PHL, SGP, TWN, THA; Advanced economies: DEU, FRA, GBR, ITA, GRC, PRT, IRL, ESP, CHE, NOR, SWE, DNK, FIN, CAN, USA, JPN

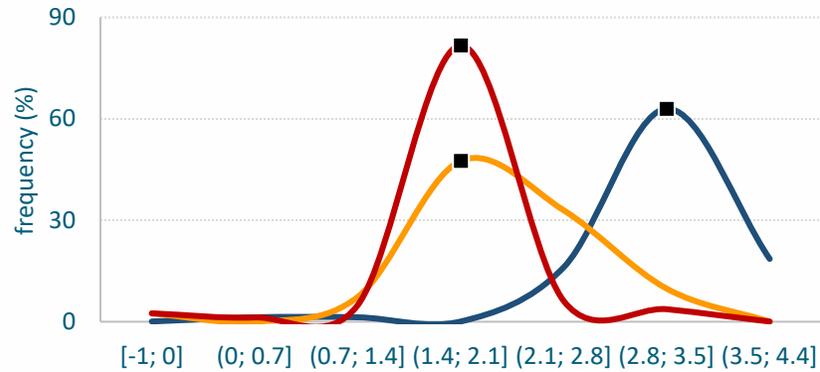
Deterioration of expectations



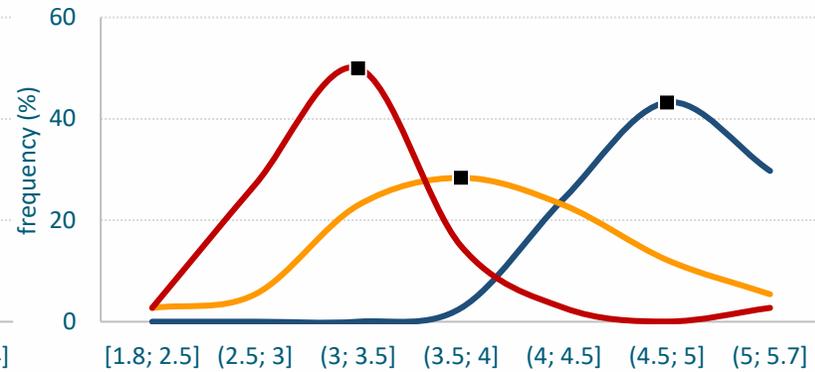
Sources: Bloomberg and surveys of central banks

GDP growth expectations

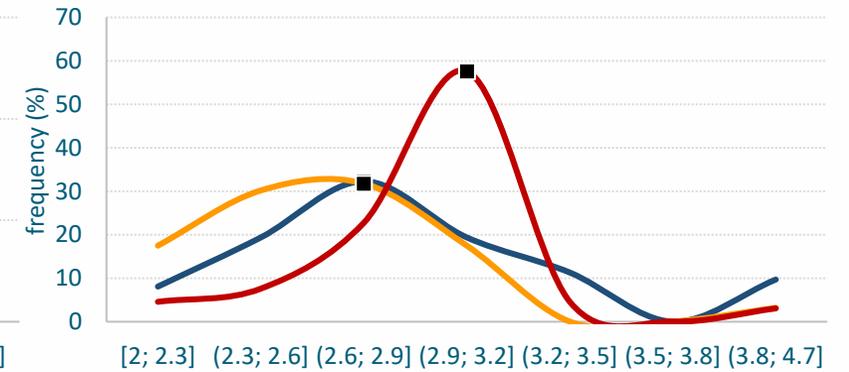
GDP USA 2022



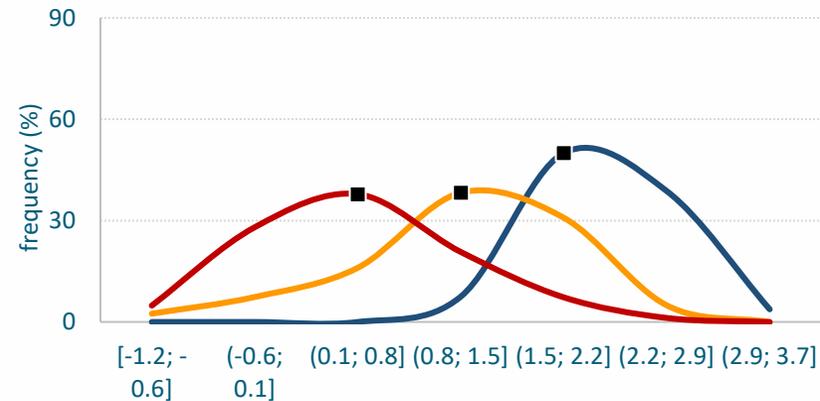
GDP China 2022



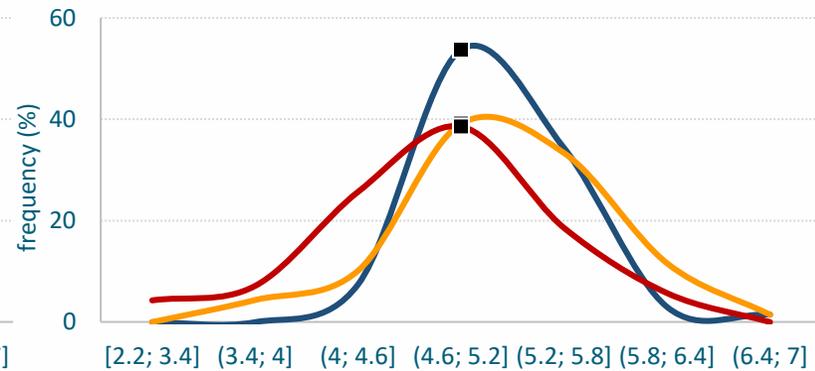
GDP Euro Area 2022



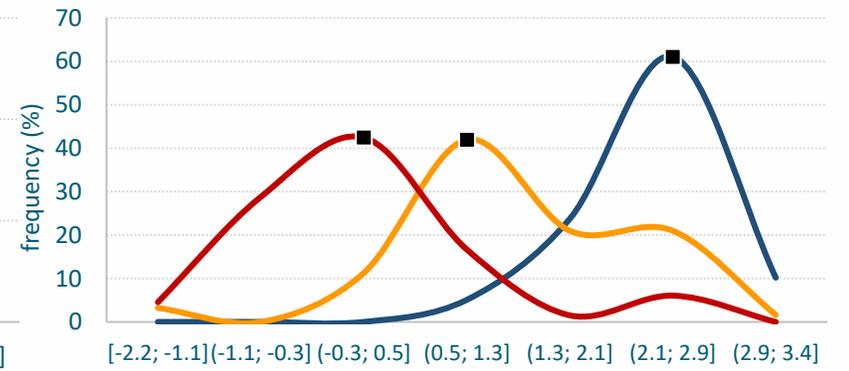
GDP USA 2023



GDP China 2023



GDP Euro Area 2023



— March 2022

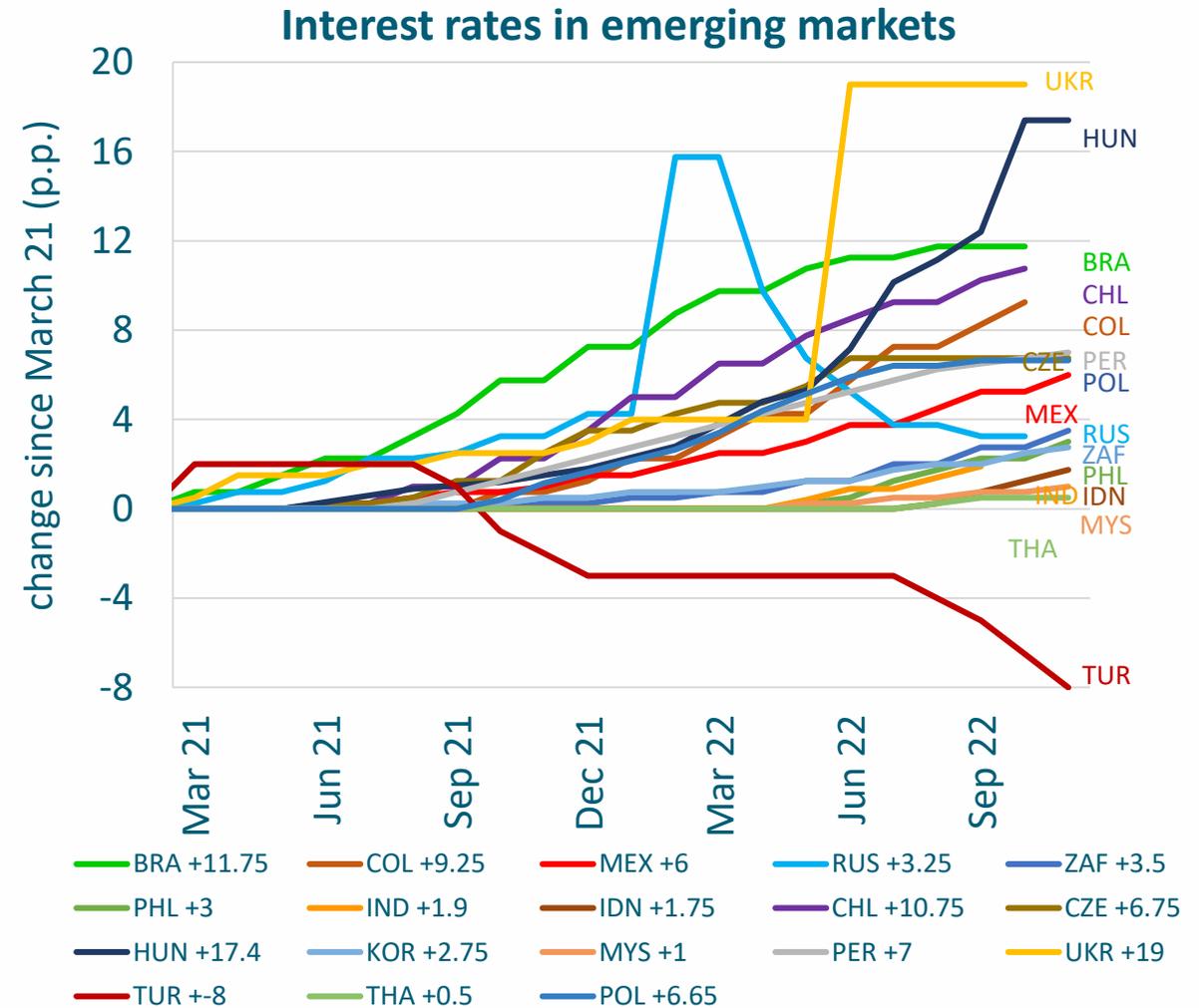
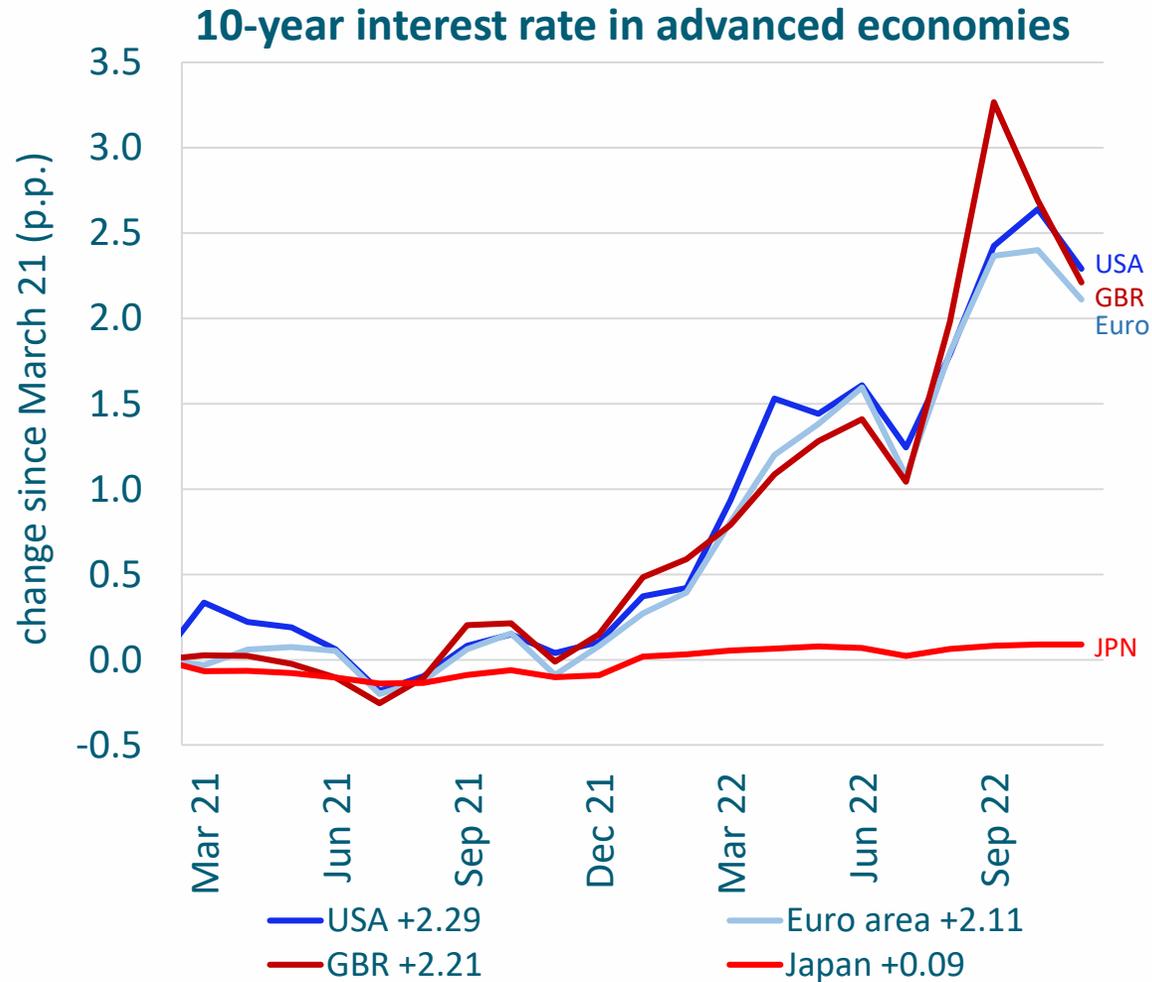
— June 2022

— September 2022

■ median

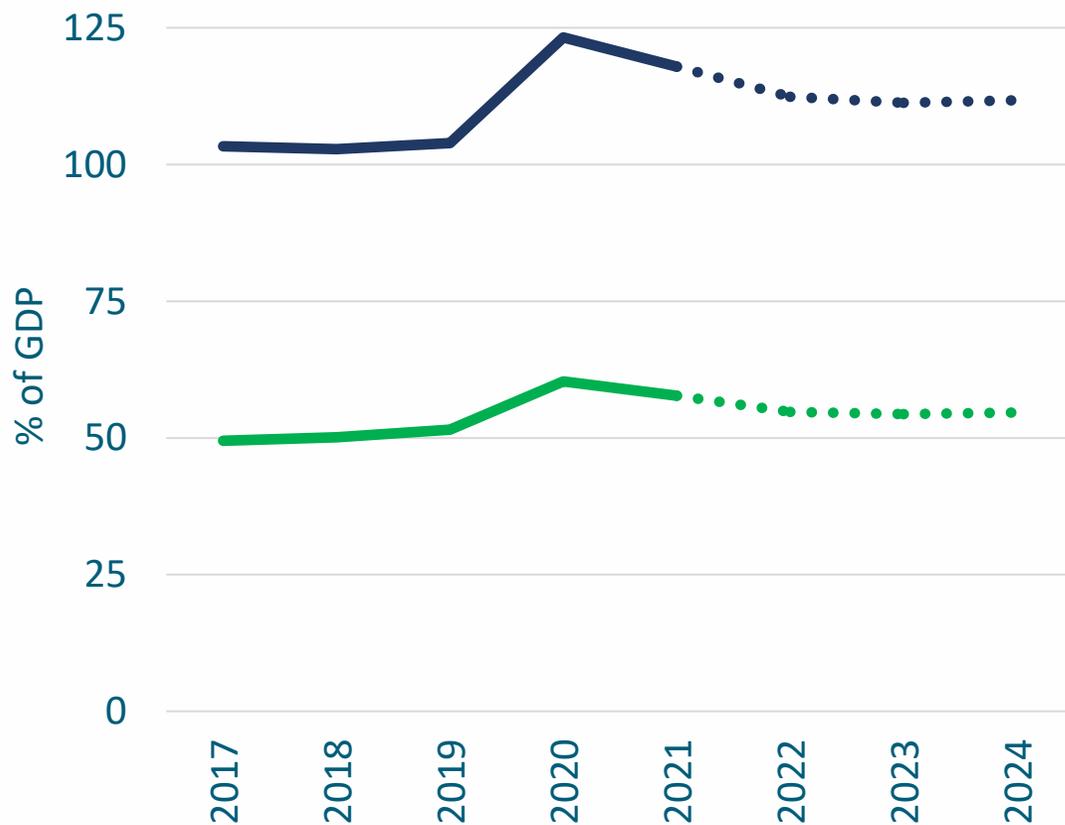
Source: Bloomberg

Normalization of monetary policy

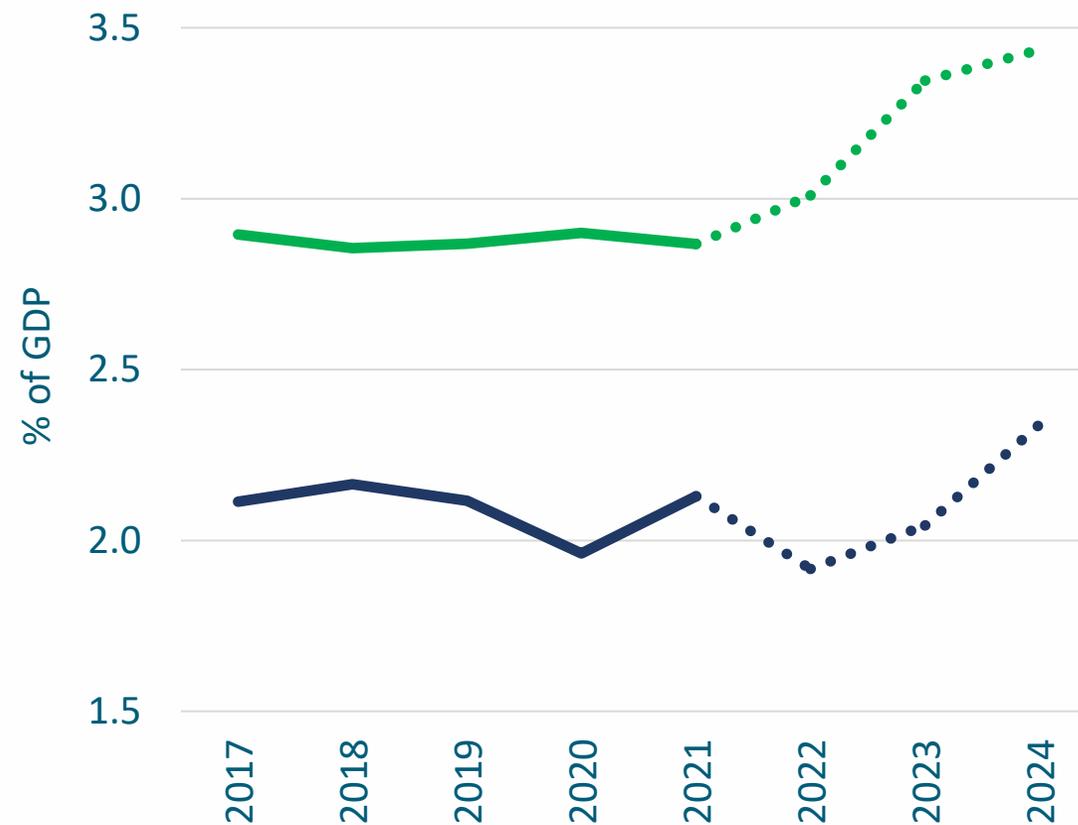


Cost of public debt

National gross public debt



Interest expense of public debt

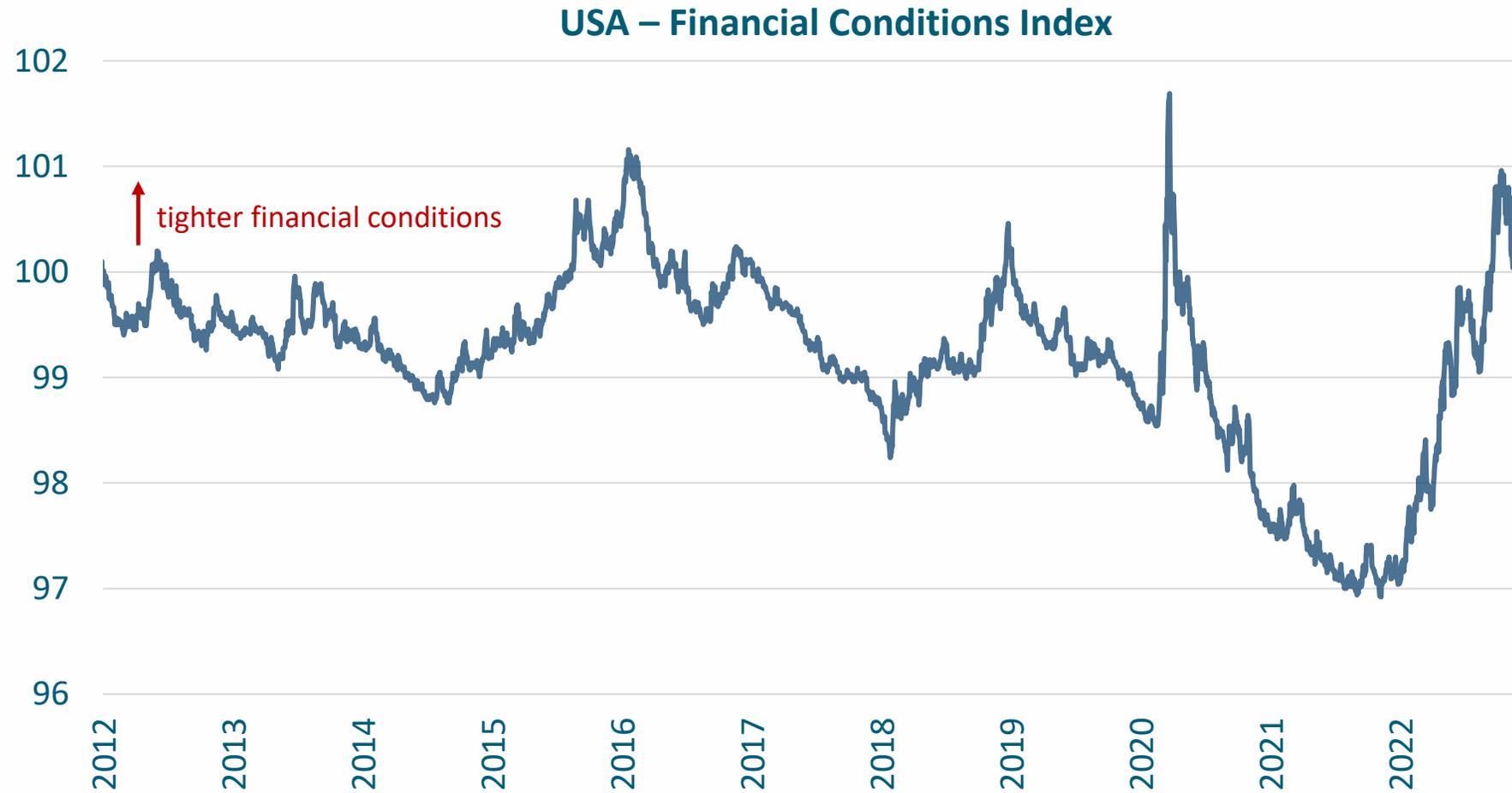


Emerging market and developing economies (China is excluded)

Advanced economies

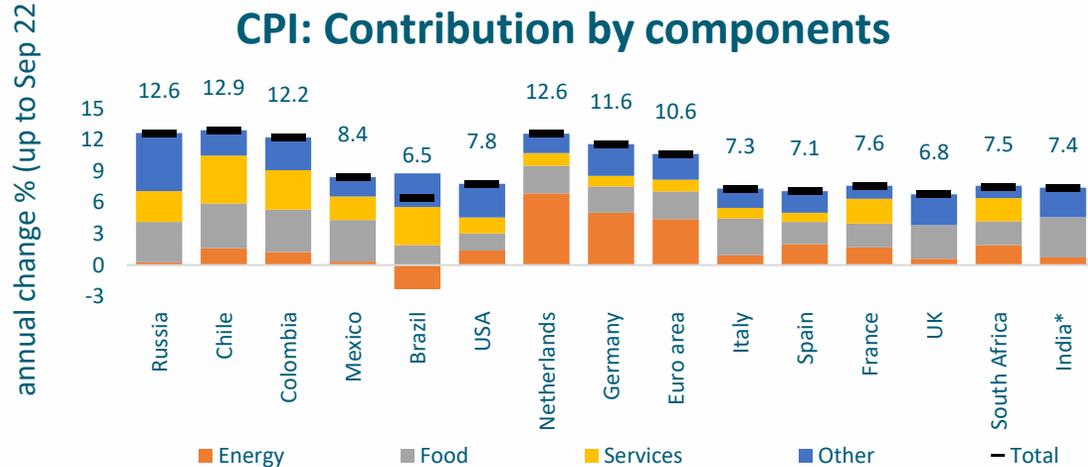
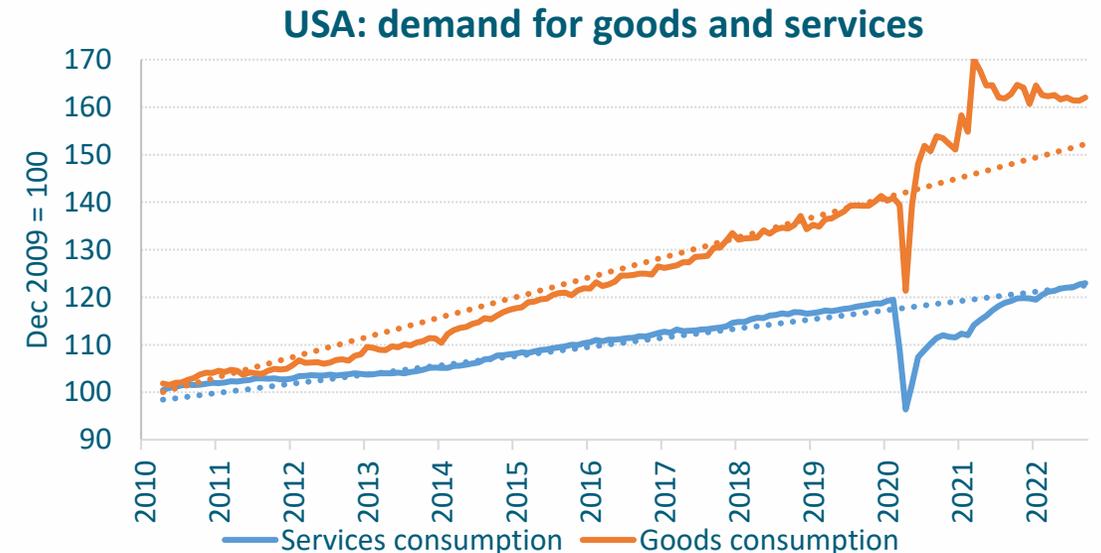
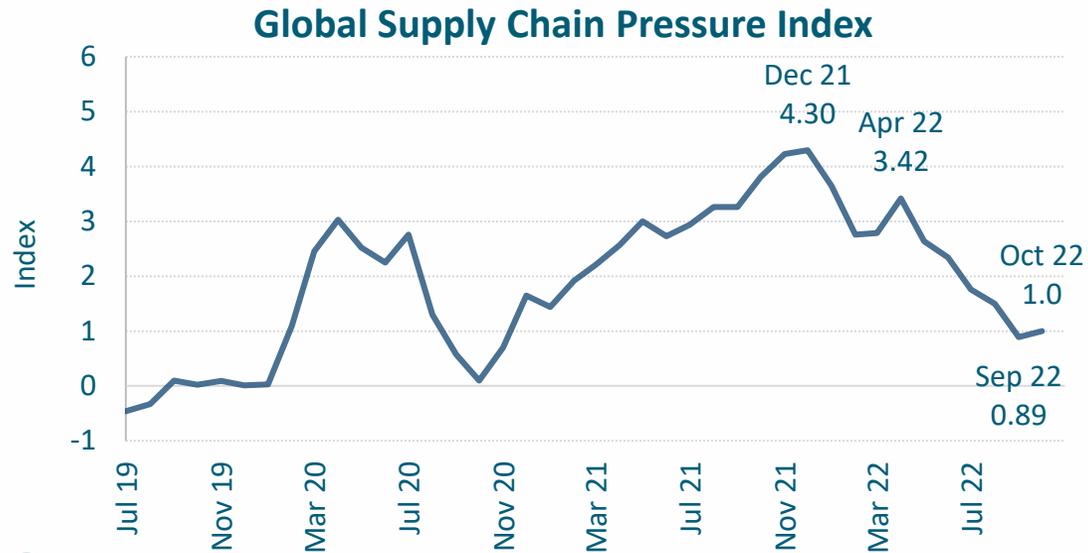
Source: IMF

Tightening of financial conditions

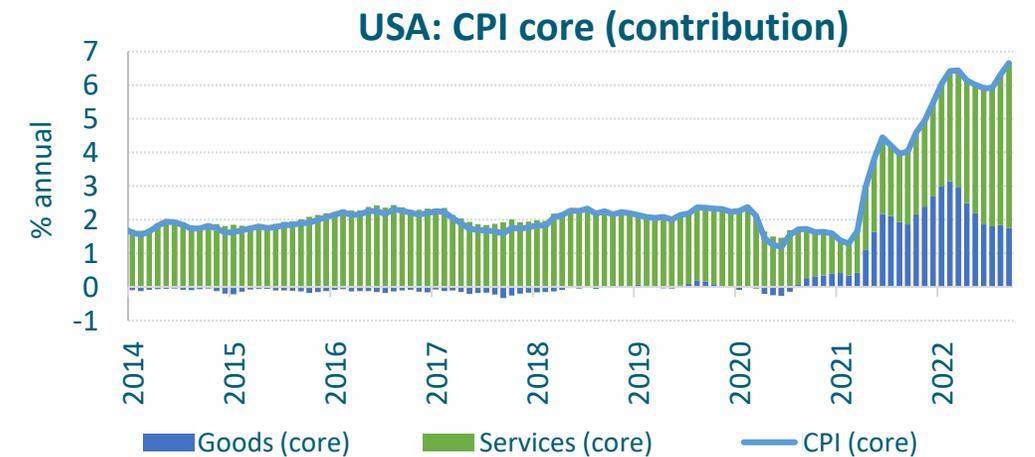


Source: Goldman Sachs

Normalization of prices of goods versus prices of services



Dotted lines refer to the extrapolation of trend lines (Jan 2010 to Feb 2020)



Sources: Federal Reserve (GSCPI) and Bloomberg

Monetary policy lag – Risks of backward-looking policies

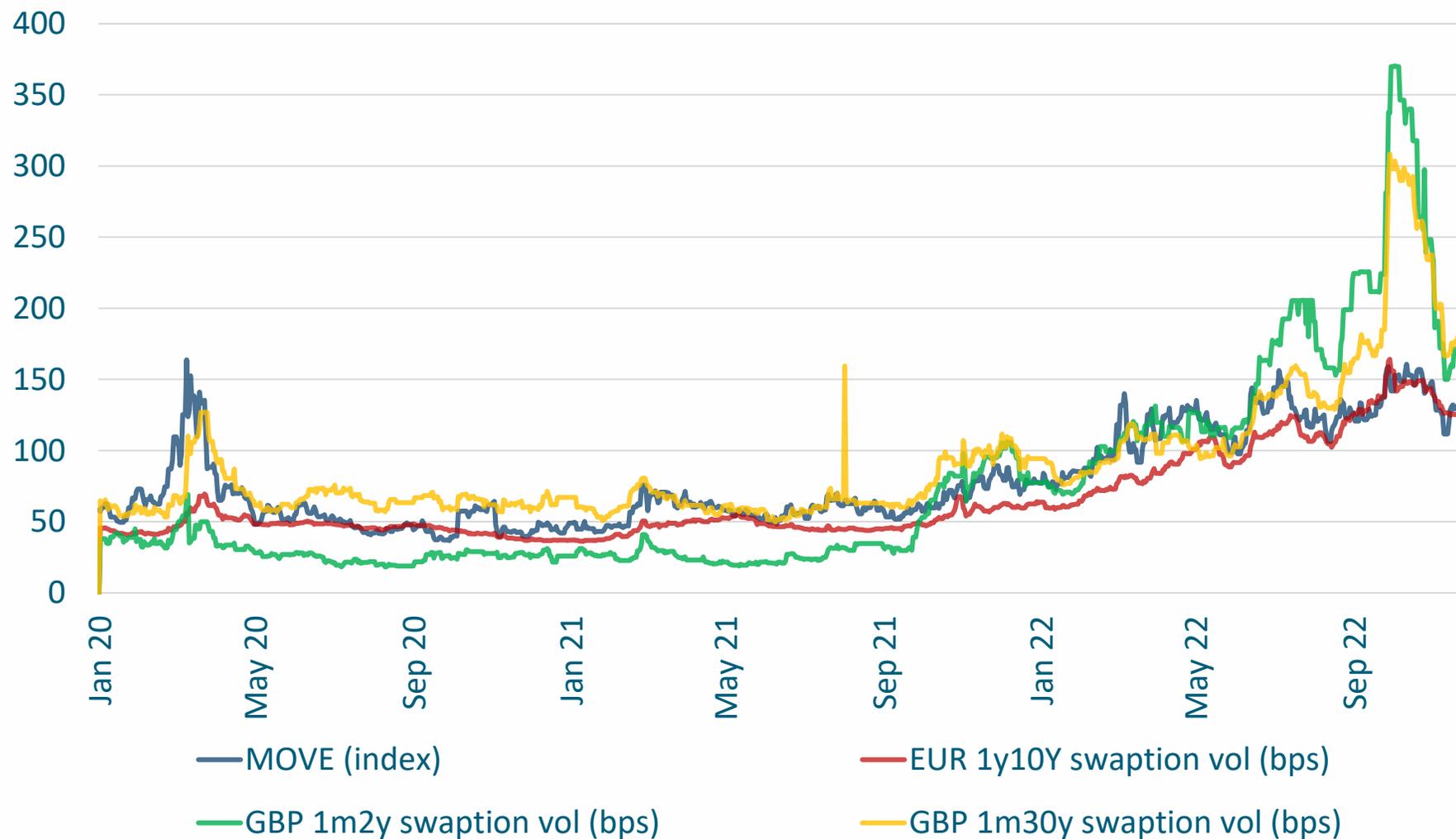
Monetary policy lag: impact on the price level

Percentage relative to valley shown in the Impulse-Response Functions (FRI) of each paper

	papers	1st quarter	2nd quarter	4th quarter	6th quarter	12th quarter
By country:						
Advanced economies	14	26%	35%	40%	57%	82%
Emerging markets	9	29%	46%	56%	59%	67%
By type:						
Recursive	7	29%	38%	41%	47%	78%
Non-recursive	15	32%	46%	51%	64%	75%
Total	22	27%	39%	44%	57%	79%

Note: Most of the data was taken from Havranek and Rusnak (2013). FRIs that present a "price puzzle" were disregarded. When more than one price level FRI is presented in the article, the average of them is considered. The total number of articles is less than the sum of the parts, because some articles appear in more than one category.

Volatility

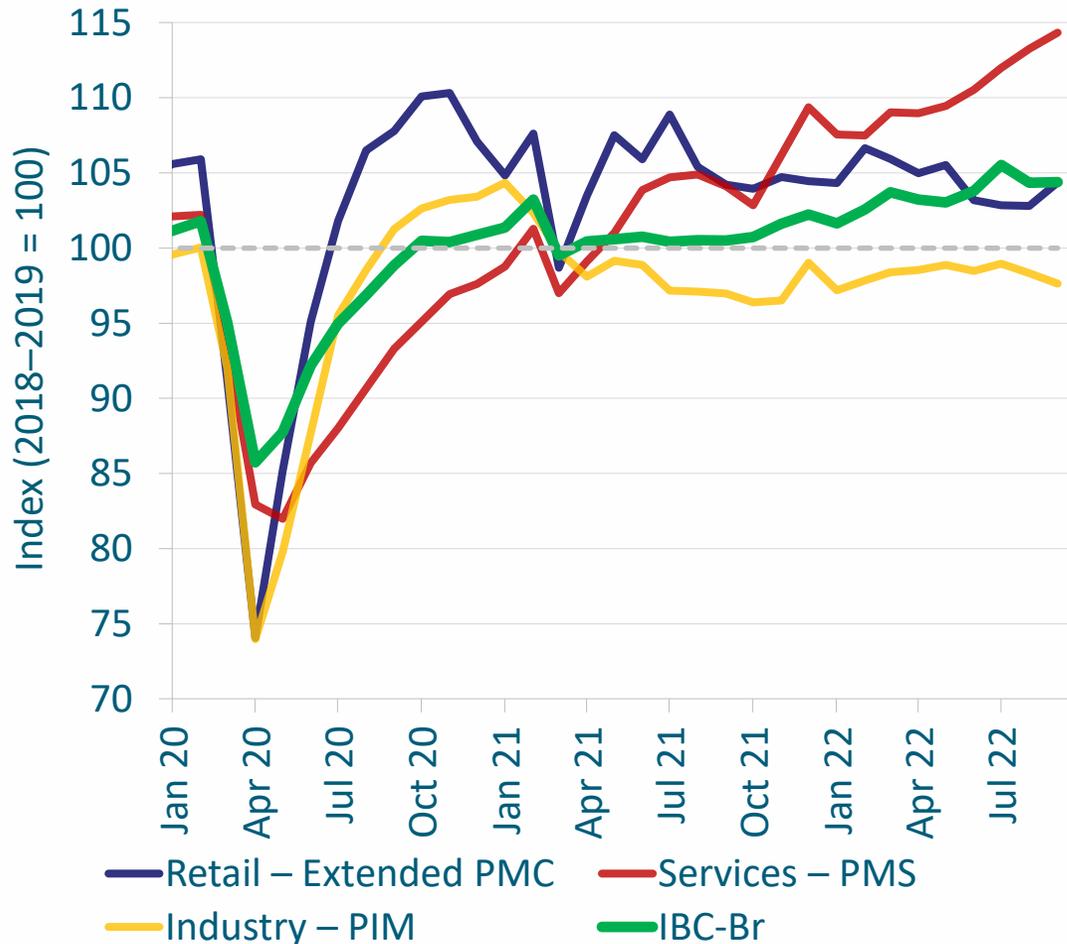


Source: Bloomberg

Economic activity

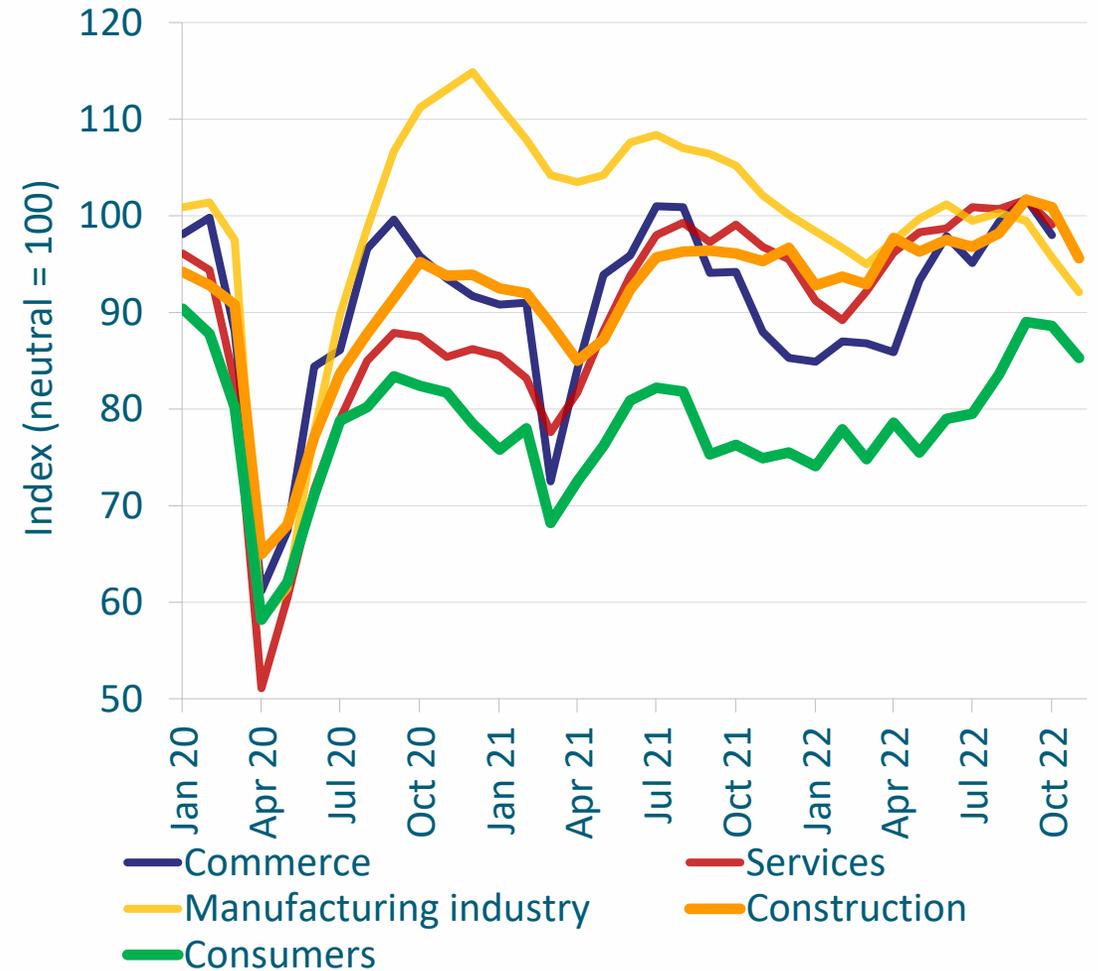
Economic activity data show some moderation

Economic activity

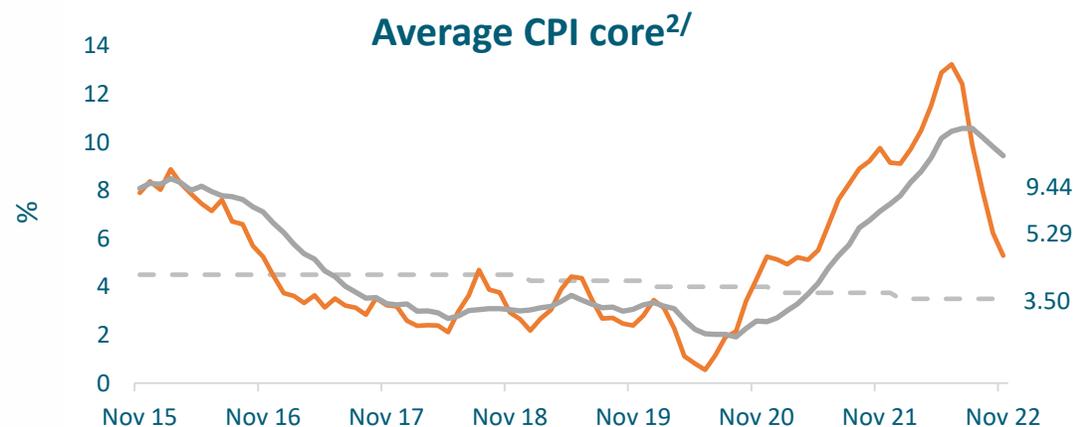
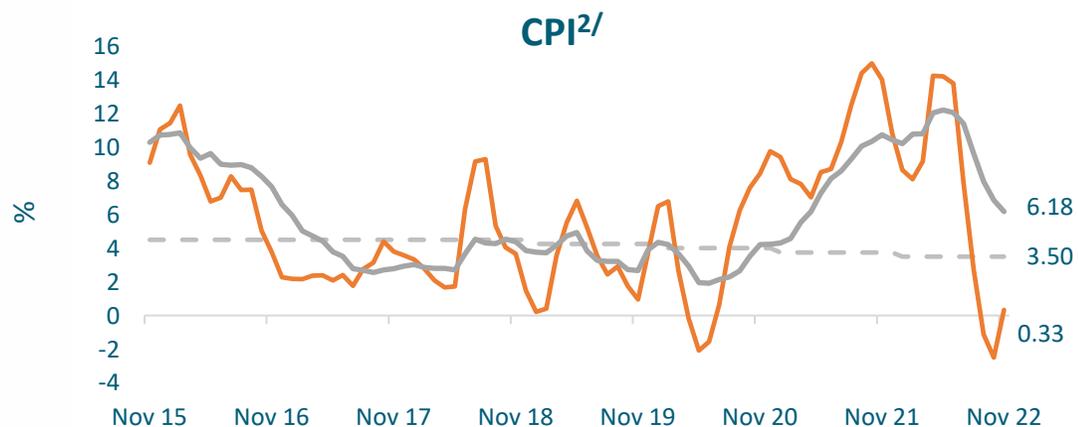
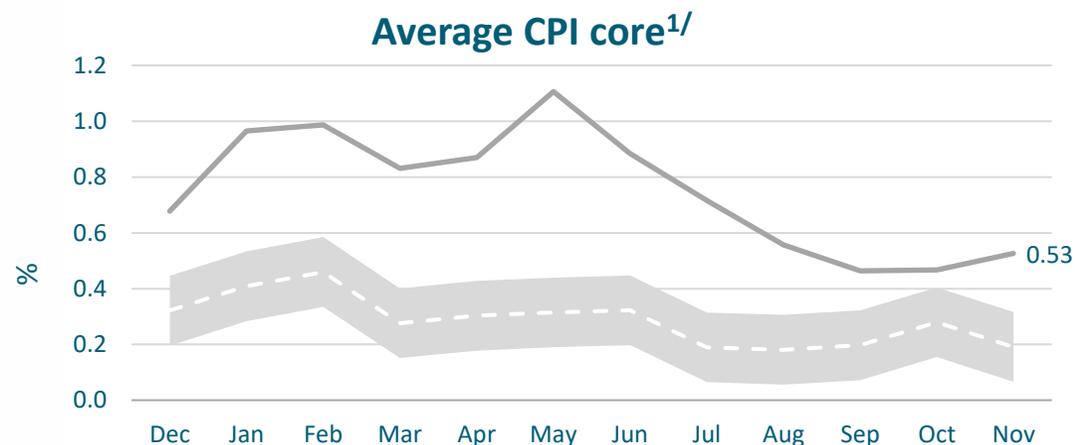
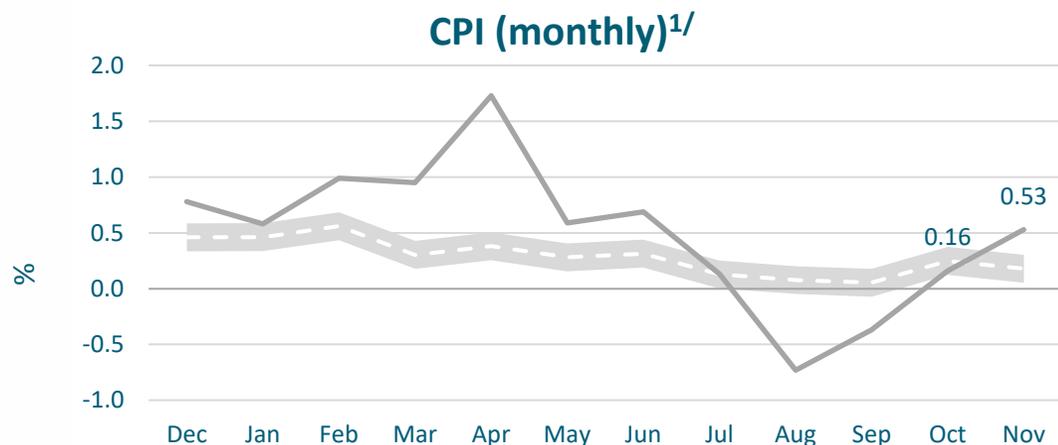


Sources: IBGE, BCB and FGV

Confidence index



Despite the recent drop concentrated on volatile items and those affected by tax measures, consumer inflation remains high

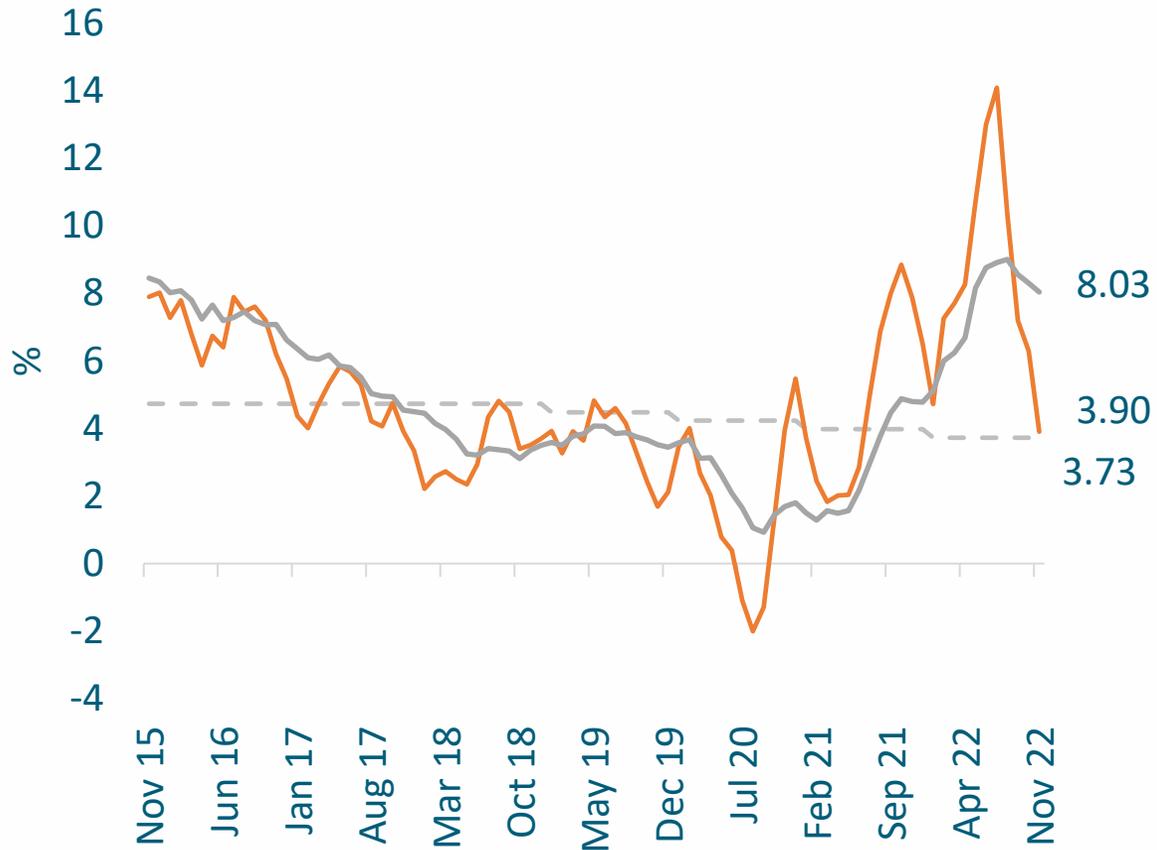


1/ IPCA-15. Seasonally adjusted inflation target range (in gray).

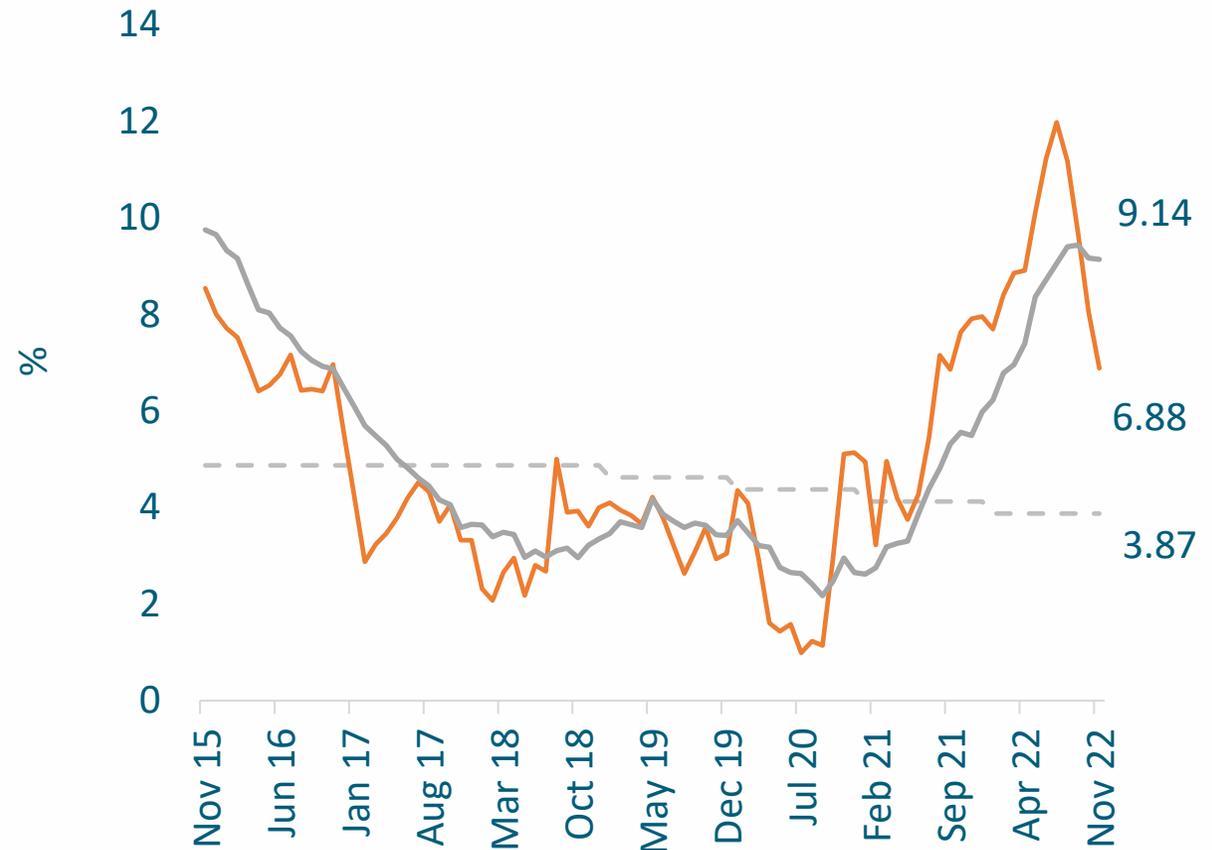
2/ IPCA-15. 12-month accumulated (gray) and 3-month accumulated annualized seasonally adjusted (orange).

Services prices

Services^{1/}



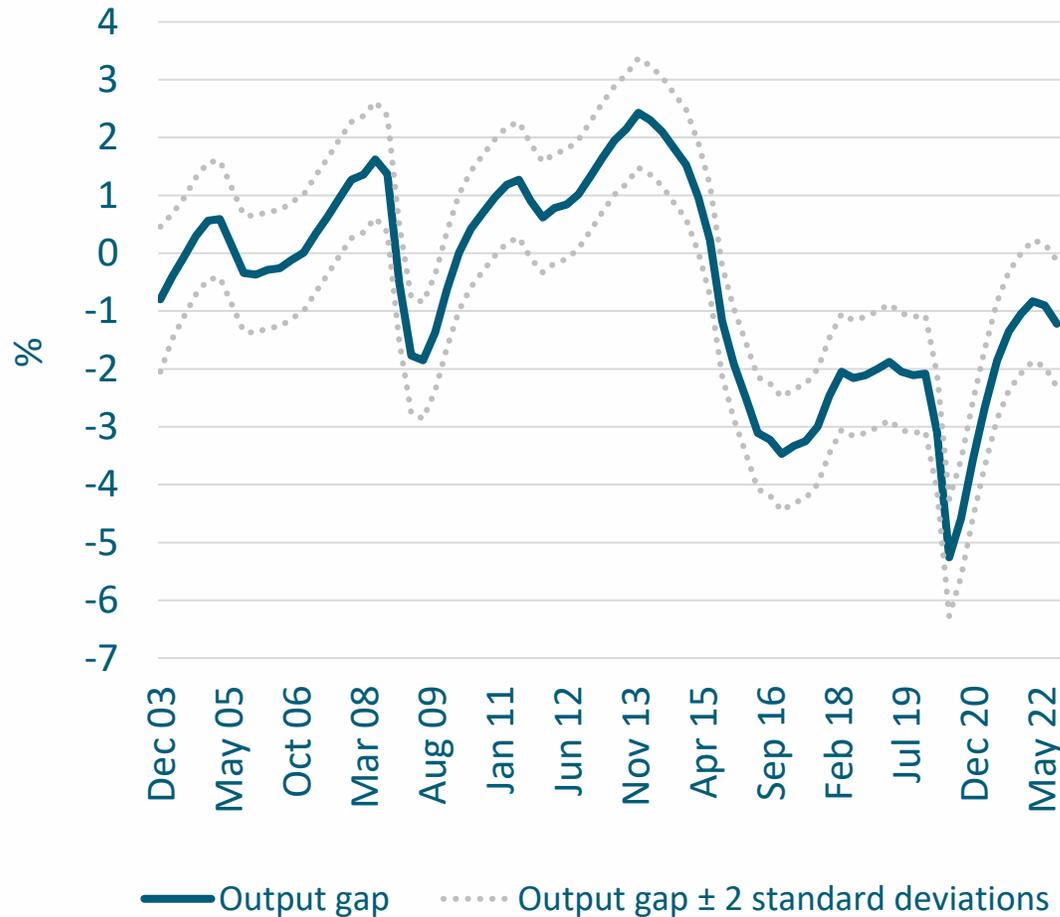
Underlying services^{1/}



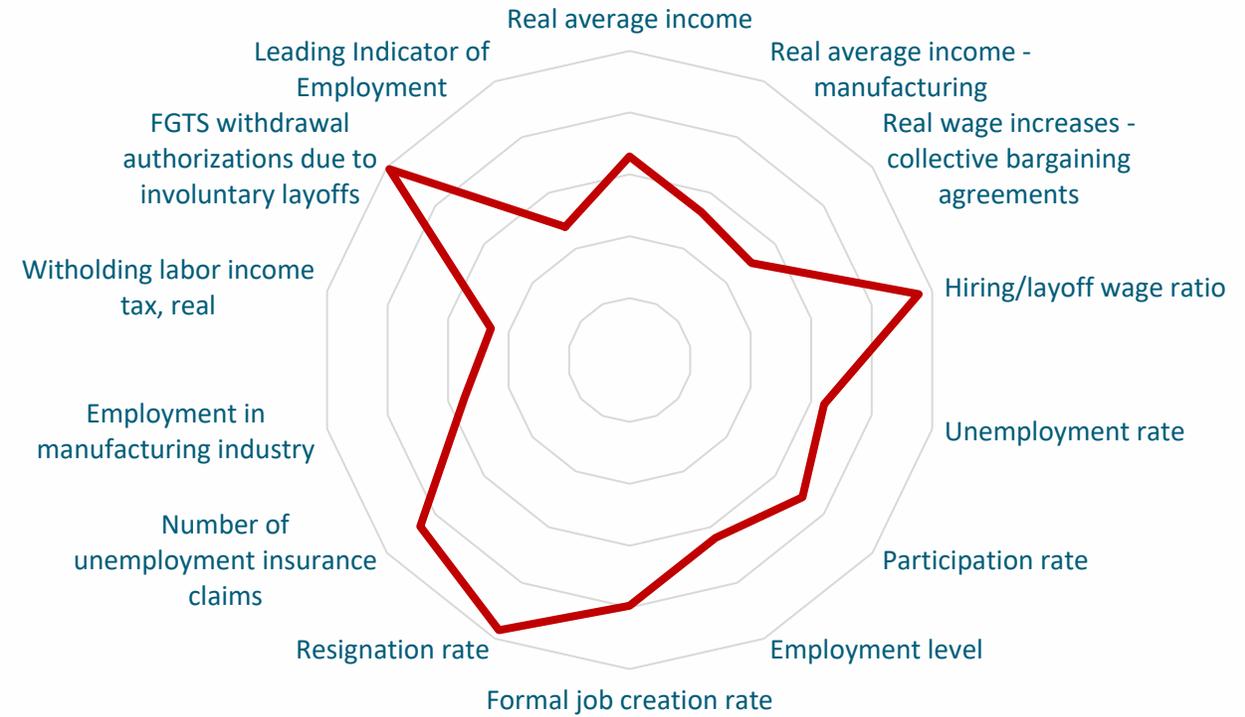
^{1/} IPCA-15. 12-month accumulated (gray) and seasonally adjusted 3-month accumulated (orange).

Uncertainty: non-observable – Output gap (variables and methods)

Estimated output gap^{1/}

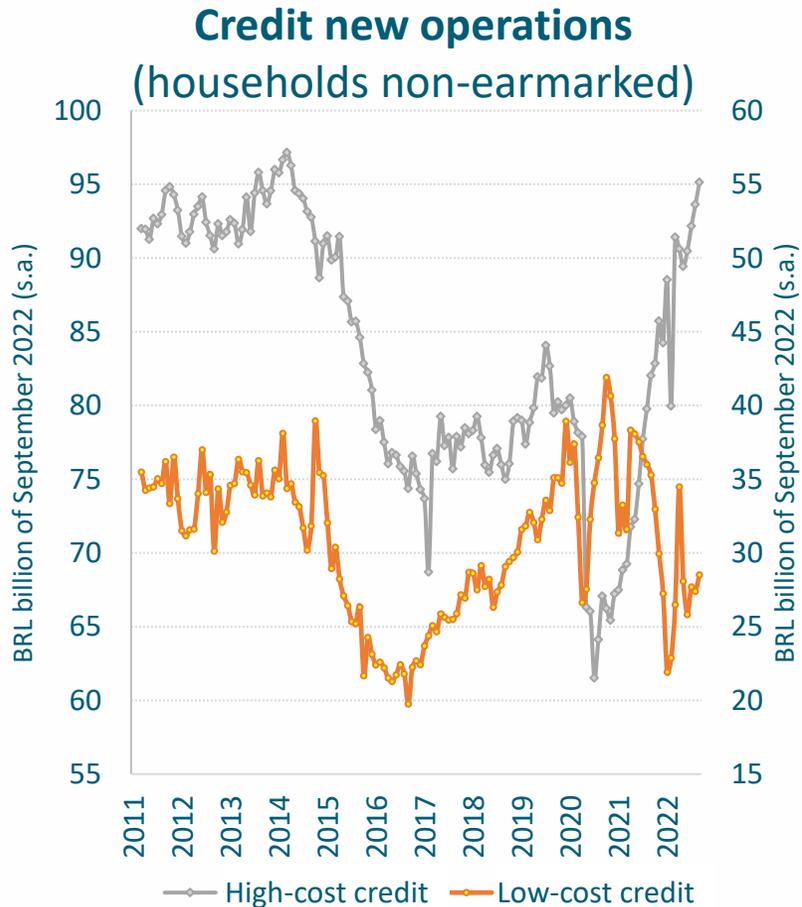


Mixed signs in labor market

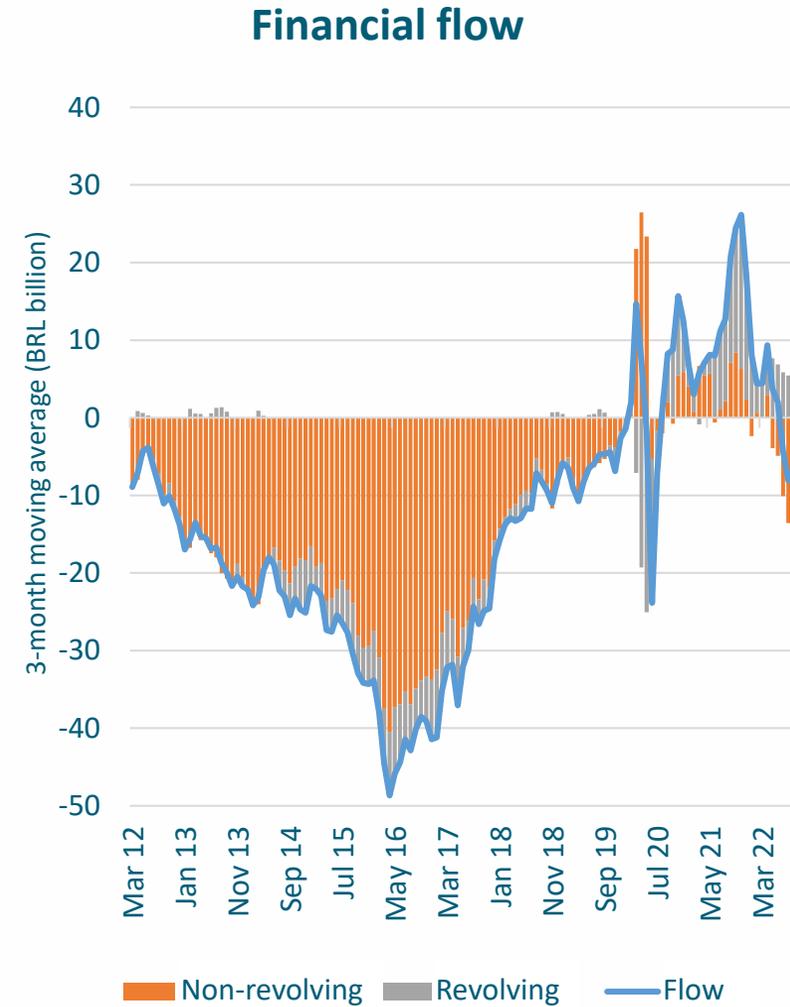
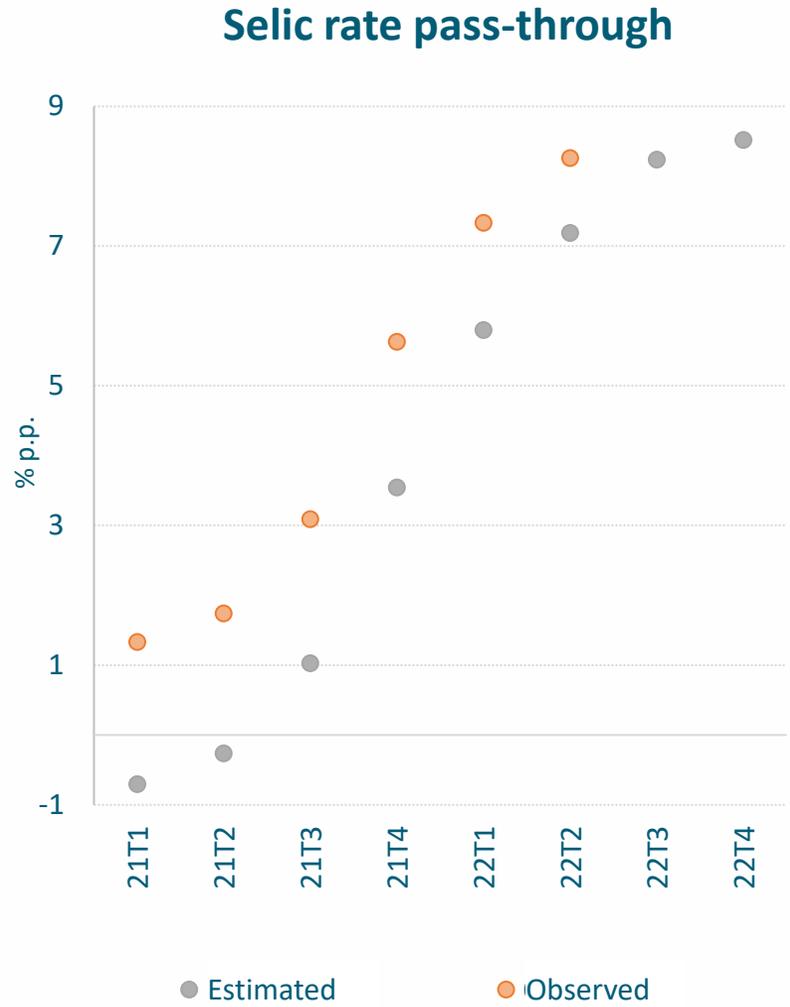


1/ Estimate of the output gap published in the September 2022 Inflation Report.

Uncertainty: in the parameters of monetary policy transmission – Change of mix and interest rate pass-through

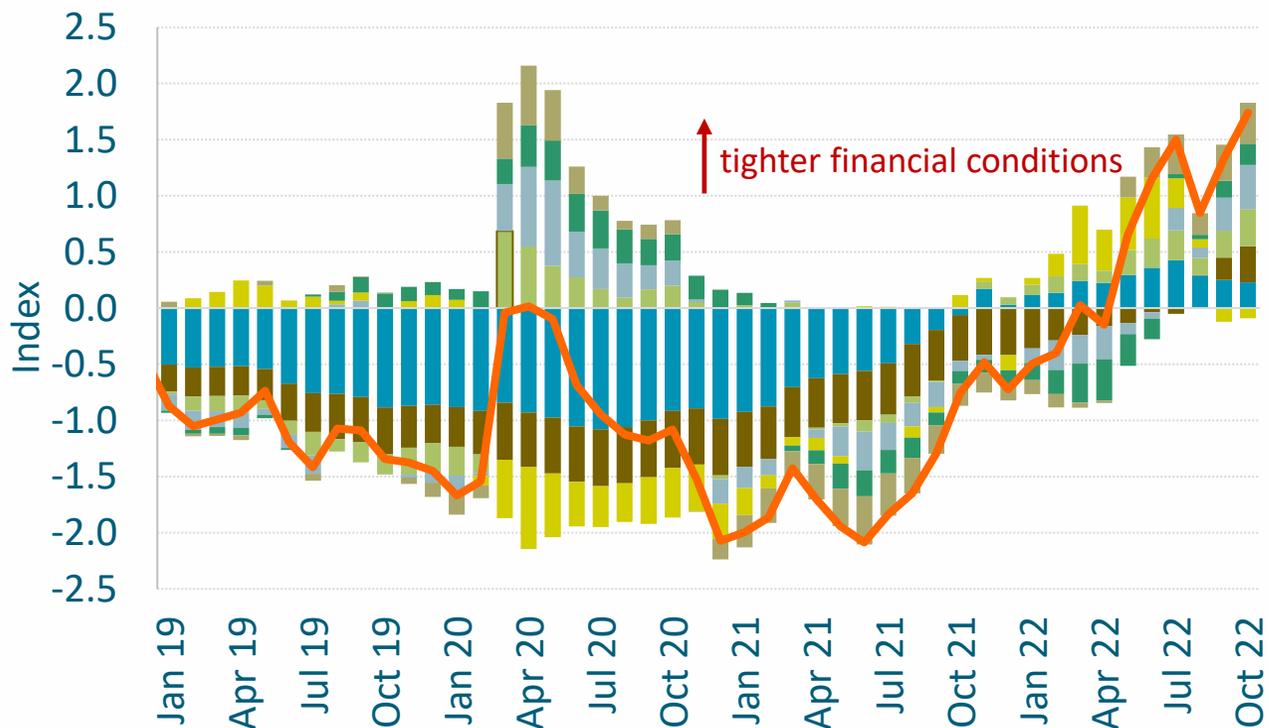


High cost: revolving and financing, Overdraft, personal credit (except payroll-deducted), goods financing and other non-earmarked credit loans.
 Low cost: payroll-deducted credit, vehicles financing, leasing and discount of checks.



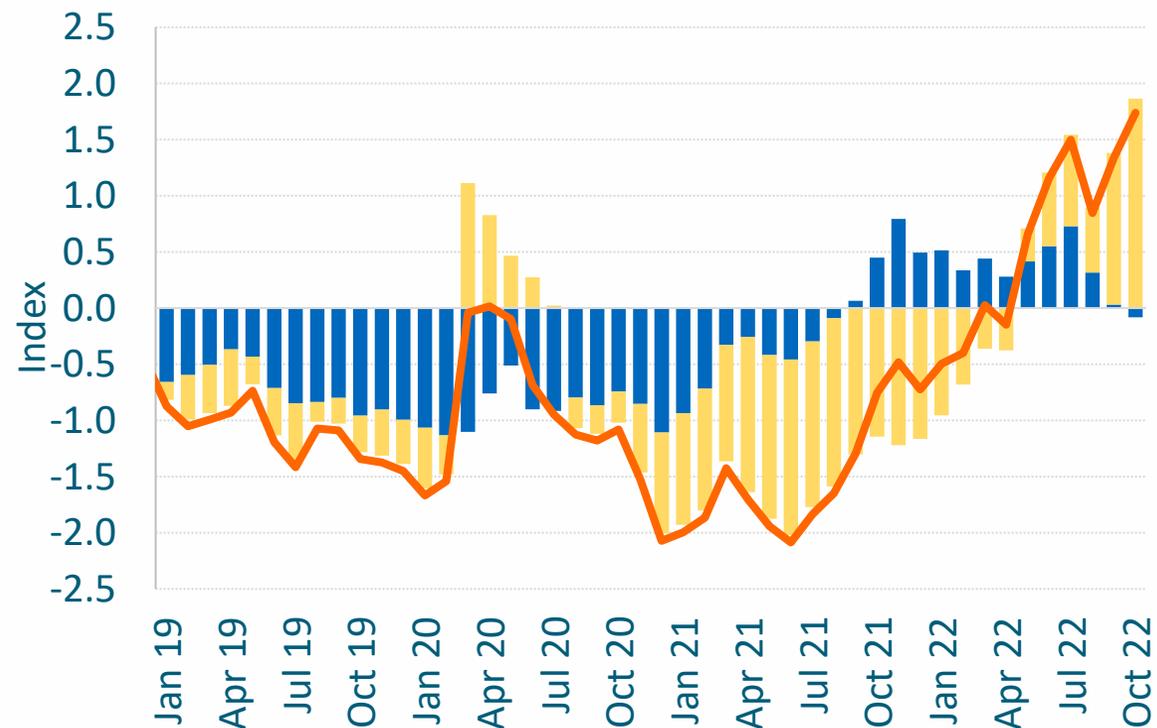
Financial Conditions Indicator

Financial Conditions Indicator (FCI)



- Domestic interest rates
- Risk
- Oil prices
- Capital markets
- Foreign interest rates
- Currencies
- Commodity prices
- FCI

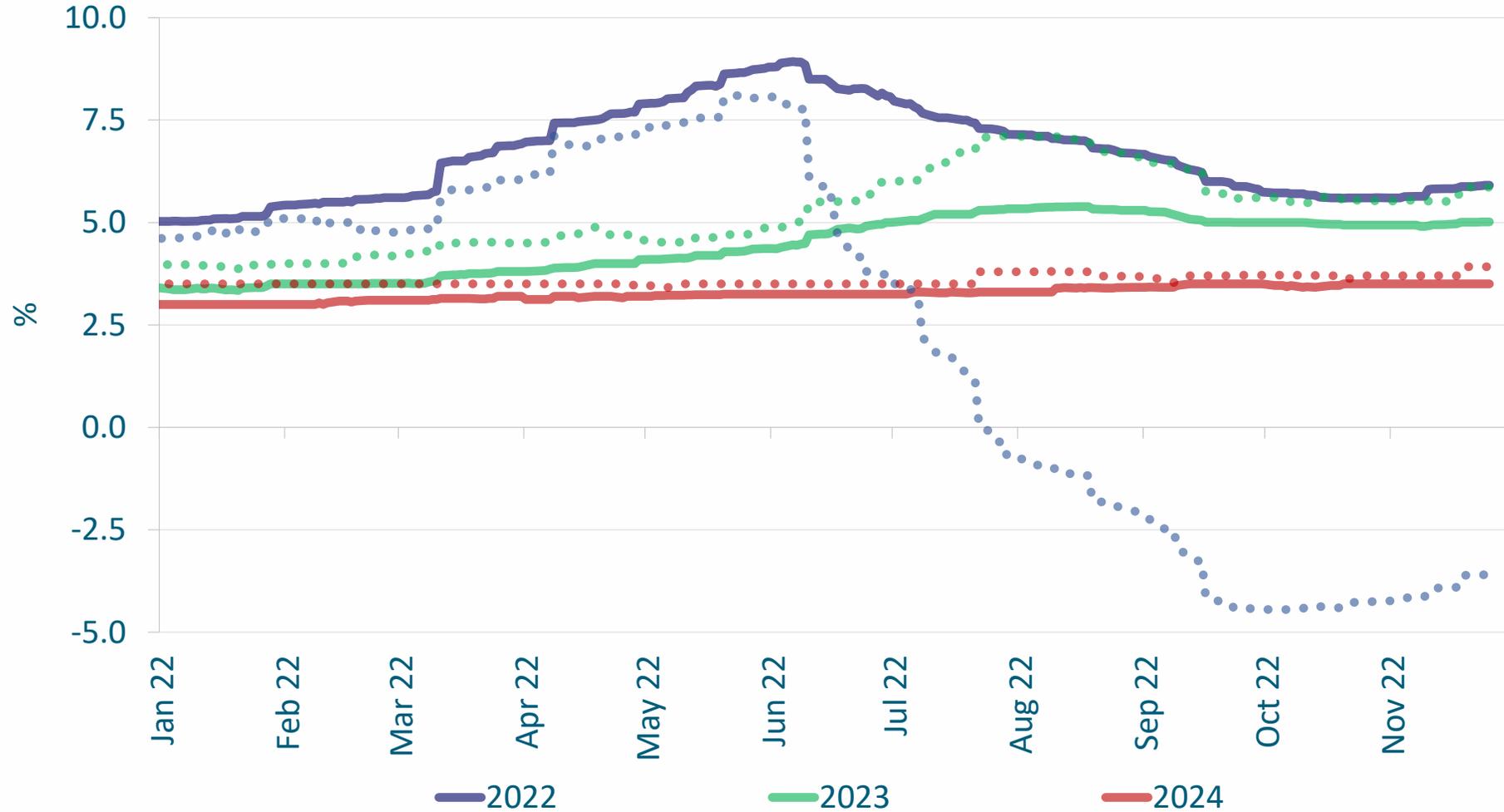
FCI – Domestic and External factors



- Domestic factors
- External factors
- FCI

Inflation expectations

Median market expectations (Focus)



	IPCA	Adm.
2022	5.91%	-3.55%
2023	5.02%	5.86%
2024	3.50%	3.92%

Source: BCB (Focus)

Dotted lines refer to expectations for administered prices. Data up to November 25th

Final comments

Final comments – Projections

- In the reference scenario, Copom's inflation projections stand at 5.8% for 2022, 4.8% for 2023, and 2.9% for 2024.
- On the six-quarter-ahead horizon, which refers to the second quarter of 2024, the 12-month inflation projection stands at 3.2%.
- The Committee judges that the uncertainty in its assumptions and projections is higher than usual.

Final comments – Balance of Risks

Upside risks:

- greater persistence of global inflationary pressures;
- uncertainty about the country's future fiscal framework and additional fiscal stimuli that support aggregate demand, partially incorporated in inflation expectations and asset prices;
- An output gap tighter than the currently adopted by the Committee in its reference scenario, especially in the labor market.

Downside risks:

- an additional reduction in the prices of international commodities measured in local currency;
- greater-than-projected deceleration of global economic activity;
- continuity of tax cuts assumed to be reversed in 2023.

The Committee assesses that the still uncertain and volatile current scenario requires serenity when evaluating risks

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