

Banco de México has implemented monetary policy in an environment in which the

inflation outlook has become increasingly complex and uncertain.

The environment of high inflation further deteriorated as a result of the military conflict in Ukraine, which led to increases in energy and food prices, and new disruptions in supply chains. Said conflict has also contributed to a decline in global growth expectations and a greater risk aversion. The resurgence of COVID-19 cases in China could imply additional disruptions on supply chains.

In Mexico, annual headline inflation remained significantly above the 3% target, while core inflation continued rising, so that both components have reached levels unseen in two decades.

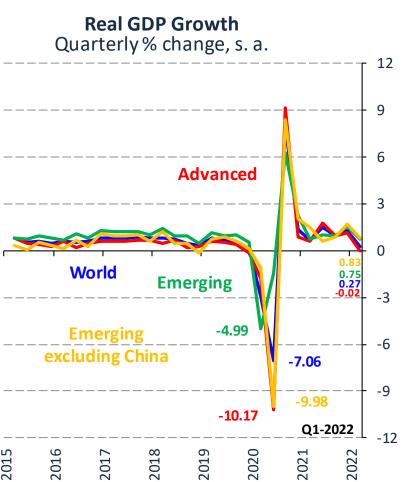


Given the risk of contamination to the price formation process and to mediumand long-term expectations, Banco de México has sought to implement monetary policy in a timely manner, fostering an orderly adjustment in relative prices and in financial markets. Banco de México will continue focusing on pursuing an orderly and sustained convergence of inflation to its target, being willing to act more forcefully, if the conditions call for it.

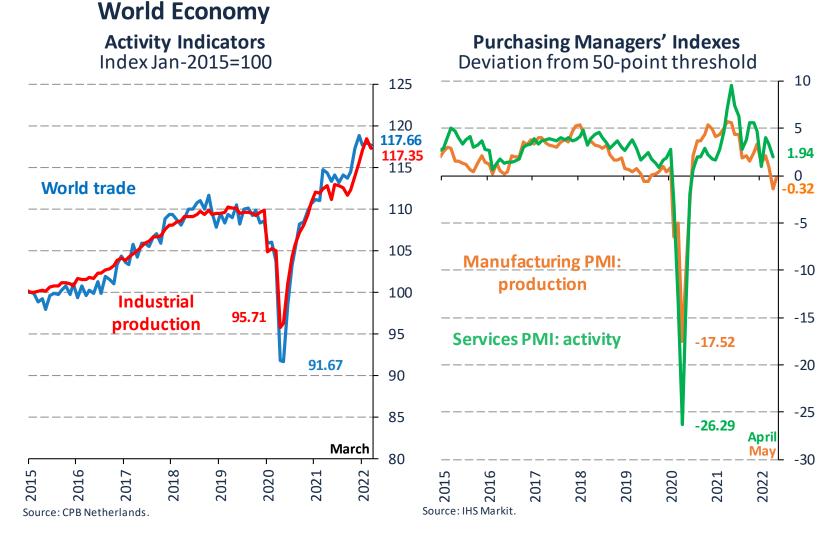
## **Outline**

- 1 External conditions
- 2 Current situation of the Mexican economy
- 3 Inflation
- 4 Monetary policy
- 5 Forecasts and final remarks

Global economic activity grew less than expected during Q1-2022, influenced by the resurgence of COVID-19 cases in some countries, which has been reflected in the persistent disruptions in supply chains, and by the economic impact of the military conflict between Russia and Ukraine.



s. a. / Seasonally adjusted figures. Note: The sample of countries used for the calculation represents 79% of world GDP measured by purchasing power parity. Forecasts are used for some countries in the sample in the first quarter. Source: Prepared by Banco de México with information from Haver Analytics and J.P. Morgan.



Growth forecasts for the world economy were revised downwards considerably for 2022 and, to a lesser extent, for 2023. Particularly noteworthy were the downward revisions for the euro area, the United Kingdom, China and, to a lesser degree, the United States.

#### **World GDP Growth Forecast**

Annual % change

		WEO April 2022		Change from January 2022	
	2022	2023	2022	2023	
World	3.6	3.6	-0.8	-0.2	
Advanced	3.3	2.4	-0.6	-0.2	
United States	3.7	2.3	-0.3	-0.3	
Euro area	2.8	2.3	-1.1	-0.2	
Japan	2.4	2.3	-0.9	0.5	
United Kingdom	3.7	1.2	-1.0	-1.1	
Emerging	3.8	4.4	-1.0	-0.3	
Excl. China	3.4	4.1	-1.4	-0.4	
Mexico	2.0	2.5	-0.8	-0.2	
China	4.4	5.1	-0.4	-0.1	
India	8.2	6.9	-0.8	-0.2	
Brazil	0.8	1.4	0.5	-0.2	

## Annual % change 5 4.4 3.8 3.6 2.6 2 January 2022 January 2022 April 2022 April 2022 2022 2023 World economy **Advanced economies Emerging economies**

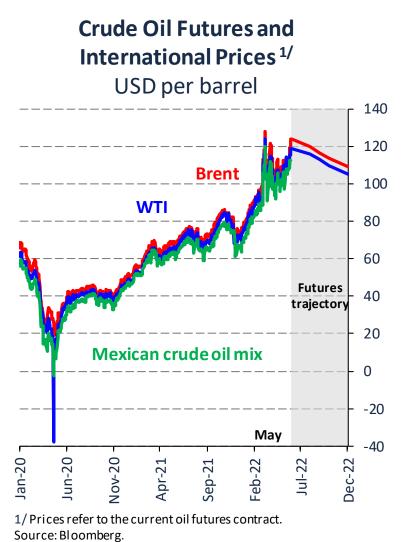
**GDP Growth Forecast** 

Source: International Monetary Fund (IMF), World Economic Outlook January and April 2022.

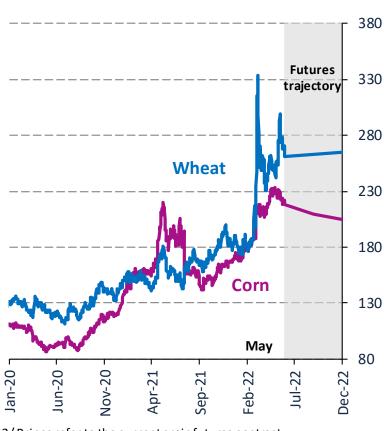
Source: International Monetary Fund (IMF), World Economic Outlook January and April 2022.

World inflation continued increasing, reaching its highest level in decades in certain economies, driven by a more widespread increase in prices, especially energy and food prices. This was the result of a recovery of demand, of persistent bottlenecks in production, and of additional pressures on commodity prices as a result of the military conflict.

- During the **first weeks of March**, crude oil prices reached their **highest level since 2008**, in the wake of the sanctions imposed on Russia.
- Subsequently, crude oil prices reverted part of the increase after the release of strategic oil reserves and the lower growth of demand for crude oil in China.
- Over the last weeks, oil prices registered episodes of volatility given the EU proposal to eliminate Russian oil imports and the G-7 commitment to eliminate its dependence on Russian energy products.



Grain Futures and Prices <sup>2/</sup> Index 01-Jan-2018=100



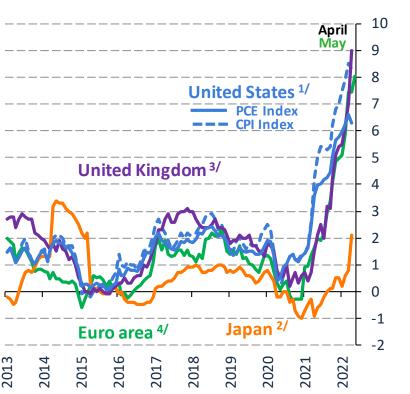
2/ Prices refer to the current grainfutures contract. Source: Bloomberg

In most advanced economies, both headline and core inflation continued increasing, remaining above their central banks' targets, while short-term expectations rose significantly and those for the longer term increased moderately.

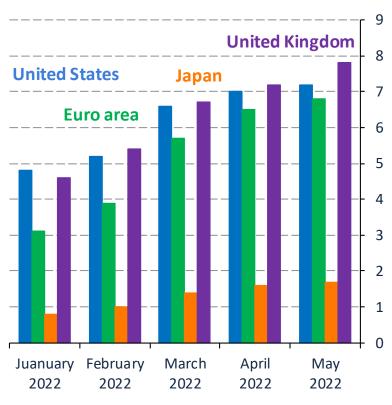
## Advanced Economies

Annual % change

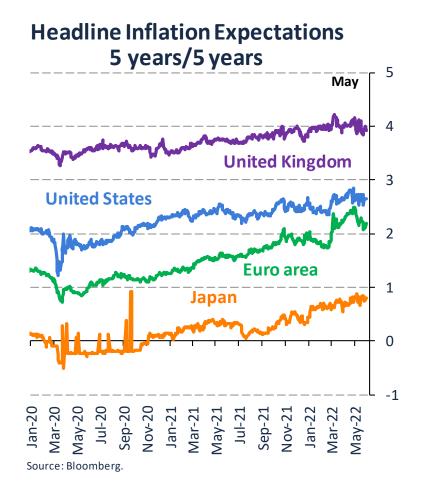
#### Headline Inflation Inflation Forecasts for 2022



1/ The solid line refers to the Personal Consumption Expenditure Price Index (PCE) and the dotted line shows the Consumer Price Index (CPI). 2/ Excludes fresh food. This series does not exclude the effect of the consumption tax increase in May 2014 and October 2019, nor the effect of the free daycare and preschool program in October 2019. 3/ The harmonized index is shown. 4/ Preliminary figures published for May. Source: Prepared by Banco de México with data from Haver Analytics.



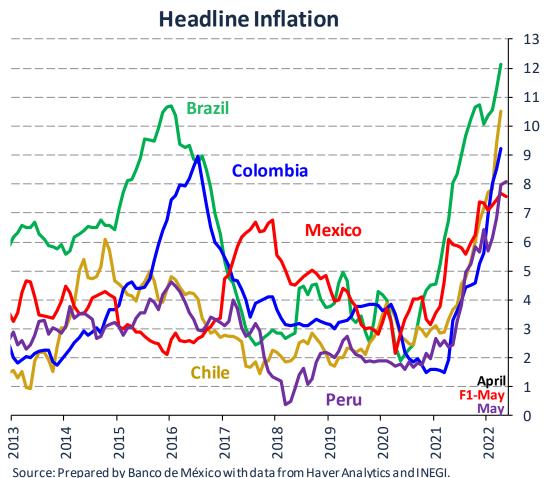
Source: Consensus Forecasts

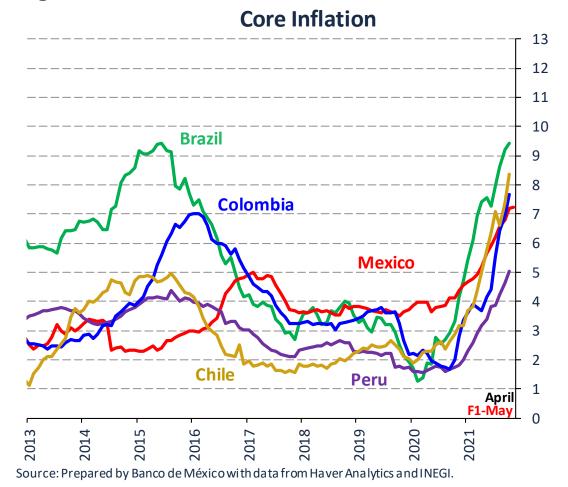


In emerging economies, inflation continued increasing as a result of the factors mentioned, as well as due to the gradual recovery of the services prices.

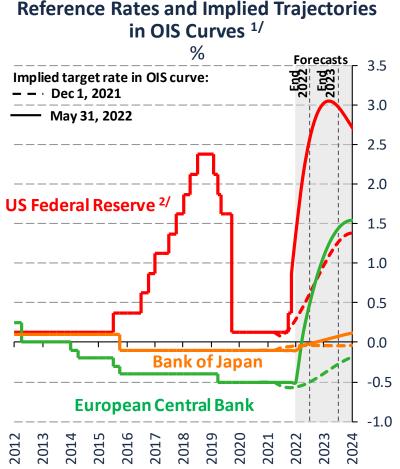
## **Emerging Economies**

Annual % change



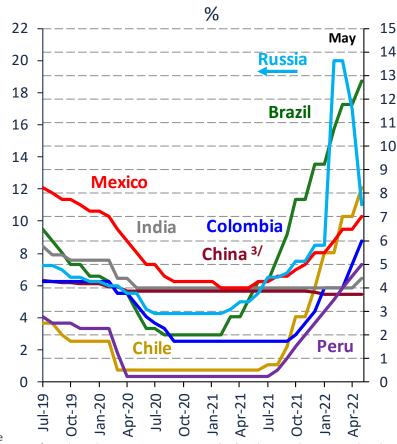


# The central banks continued reducing their monetary stimulus and some of them accelerated said process. A large number of emerging economies continued increasing their policy rates.



1/ OIS: Fixed-for-floating swap where the fixed interest rate is the overnight effective reference rate. 2/ Data for the observed federal funds rate corresponds to the average between the lower and upper bounds of the target range (0.75% - 1.0%). Source: Prepared by Banco de México with data from Bloomberg.

### Reference Rates in Emerging Economies



3/ For China, the 1-year Loan Prime Rate (LPR) is shown. Other rates in China have also exhibited downward movements.

Source: Haver Analytics

## Inflation Gap, Reference Rates, and Cumulative Change in 2022

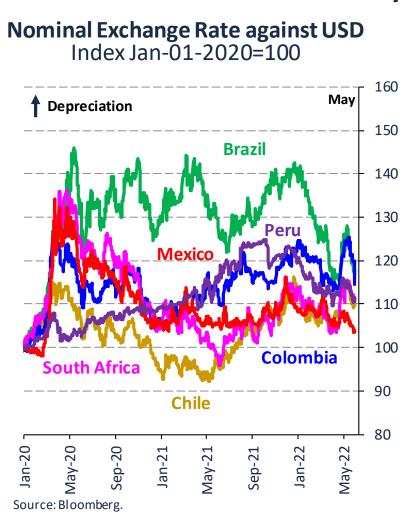
Country	Inflation Gap Percentage points	Current Policy Rate %	Cumulative change in Monetary Policy Rate since January 2022 Basis Points
Advanced Economies			
Japan	0.10	-0.10	0
United Kingdom	7.01	1.00	75
Euro area 4/	6.05	-0.50	0
United States 5/	6.26	0.75-1	75
Emerging Economies			
South Africa	1.39	4.75	100
Colombia	6.23	6.00	300
Chile	7.52	8.25	425
India	3.79	4.40	40
Peru	6.08	5.00	250
Russia	13.83	11.00	250
Mexico	4.58	7.00	150
Brazil	8.63	12.75	350
China <sup>6/</sup>	-0.99	3.70	-10

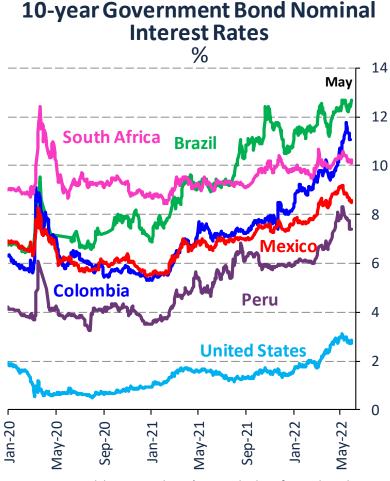
Note: Data as of June 1, 2022. The inflation gap is estimated as the difference between the last available monthly inflation data and the point target or the mid-point of the target range or the variability interval, defined by central banks. These are 2% for advanced economies and Peru, 3% for Mexico, Colombia, Chile and China, 3.5% for Brazil, 4% for India and Russia and 4.5% for South Africa. 4/ Differences from the deposits rate are shown. 5/ Differences from the mid point of the federal funds target range are shown for the United States. 6/ The 1-year Loan Prime Rate (LPR) is shown.

Source: Prepared by Banco de México with data from Haver Analytics.

International financial markets registered volatility and episodes of risk aversion. This occurred in a context of uncertainty associated with the military conflict, high inflation levels and the expectation of a faster reduction of the monetary stimulus, the re-imposition of social distancing measures in China, and the possible impact of these factors on economic activity.

# Implied Volatility Index VIX Index Mav Note: The VIX index is a weighted indicator that measures implied volatility in the options market for S&P 500 published by the





Source: Prepared by Banco de México with data from Bloomberg and *Proveedor Integral de Precios* (PiP).

Source: Bloomberg.

Chicago Board Options Exchange.

## **Outline**

1 External conditions

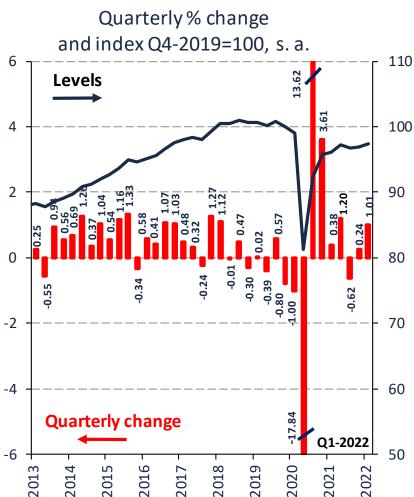
- 2 Current situation of the Mexican economy
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# In Q1-2022, economic activity reactivated, after having exhibited weak performance in the second half of 2021.



- During Q1-2022 GDP increased 1.01% in s.a. terms relative to the previous quarter (1.8% in annual s.a. terms), and lied 2.1% below the level observed in Q4-2019.
- The above represented growth, after the fall in Q3-2021 and weakness in Q4-2021.

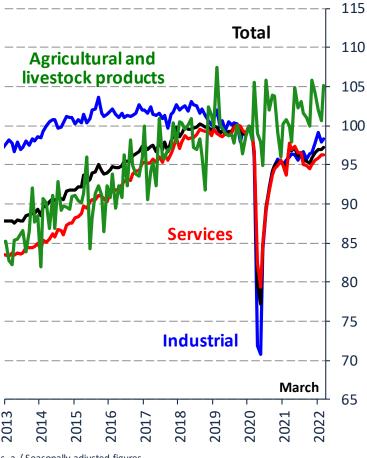
#### **Gross Domestic Product**<sup>1/</sup>



s. a./ Seasonally adjusted figures. 1/ The range of the graph for the quarterly change in GDP has been narrowed to facilitate its reading. Source: Mexico's National Accounts System (SCNM, for its acronym in Spanish), INEGI.

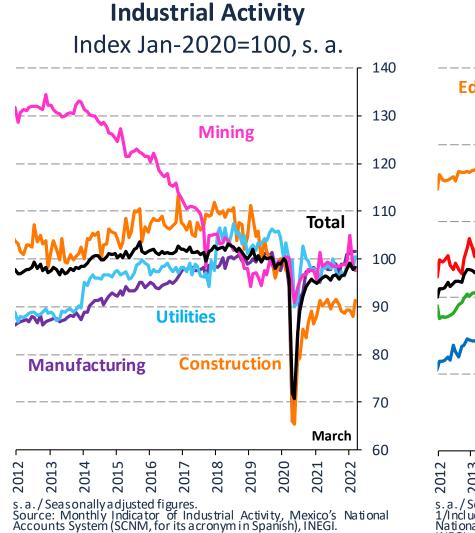
#### **Global Index of Economic Activity**

Index Jan-2020=100, s. a.

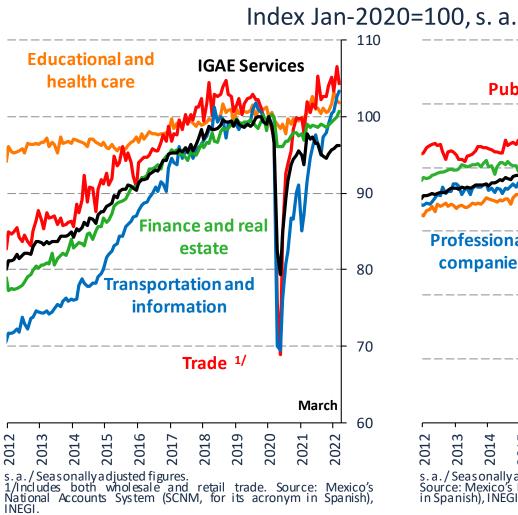


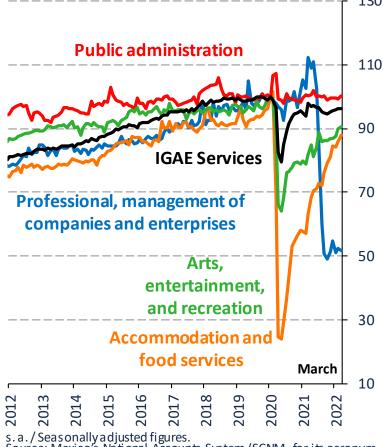
s. a./ Seasonally adjusted figures. Source: Mexico's National Accounts System (SCNM, for its acronym in Spanish), INEGI.

Within industrial activity, manufacturing kept exhibiting dynamism, while construction remained at low levels. Services continued to recover gradually, albeit with certain heterogeneity.





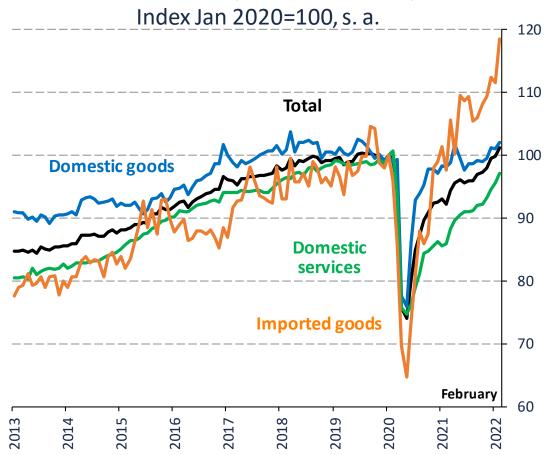




s.a./Seasonally adjusted figures. Source: Mexico's National Accounts System (SCNM, for its acronym in Spanish), INEGI.

In the first two months of 2022, private consumption continued recovering and registered a level above that observed in February 2020. This reflected the continuous reactivation of consumption of goods, as well as the positive trajectory of services consumption.

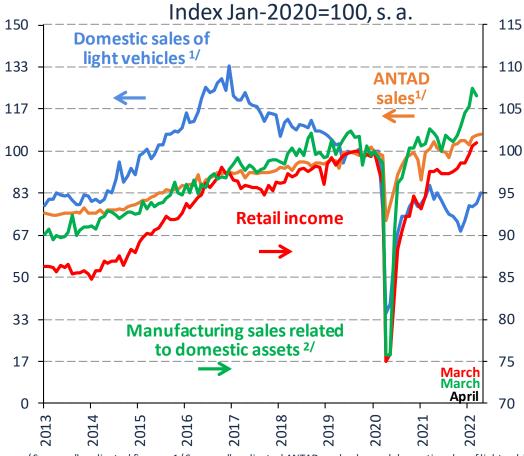
#### **Total Private Consumption and its Components**



s. a./ Seasonally adjusted figures.

Source: Mexico's National Accounts System (SCNM, for its acronym in Spanish), INEGI.

#### **Domestic Consumption Indicators**

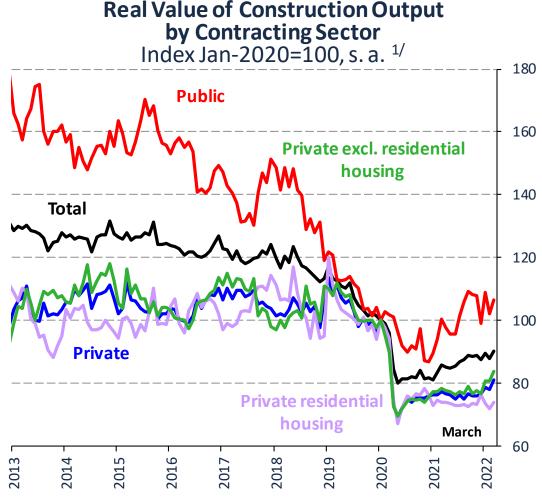


s. a./Seasonally adjusted figures. 1/Seasonally adjusted ANTAD real sales and domestic sales of light vehicles by Banco de México. 2/ It refers to the sales of the Monthly Survey of the Manufacturing Industry (EMIM) related to the private goods consumption. Source: Prepared by Banco de México with data from the National Association of Self-Service and Department Stores (ANTAD for its acronym in Spanish), the Monthly Survey on Commercial Companies (EMEC, for its acronym in Spanish), INEGI, Banco de Mexico with information from the Monthly Survey of the Manufacturing Industry (EMIM) and the Administrative Registry of the Automotive Industry of Light Vehicles, INEGI

Gross fixed investment improved slightly in the first two months of 2022, as its components showed a differentiated performance. In particular, construction lay below the level registered prior to the pandemic and investment in machinery and equipment continued trending upwards.

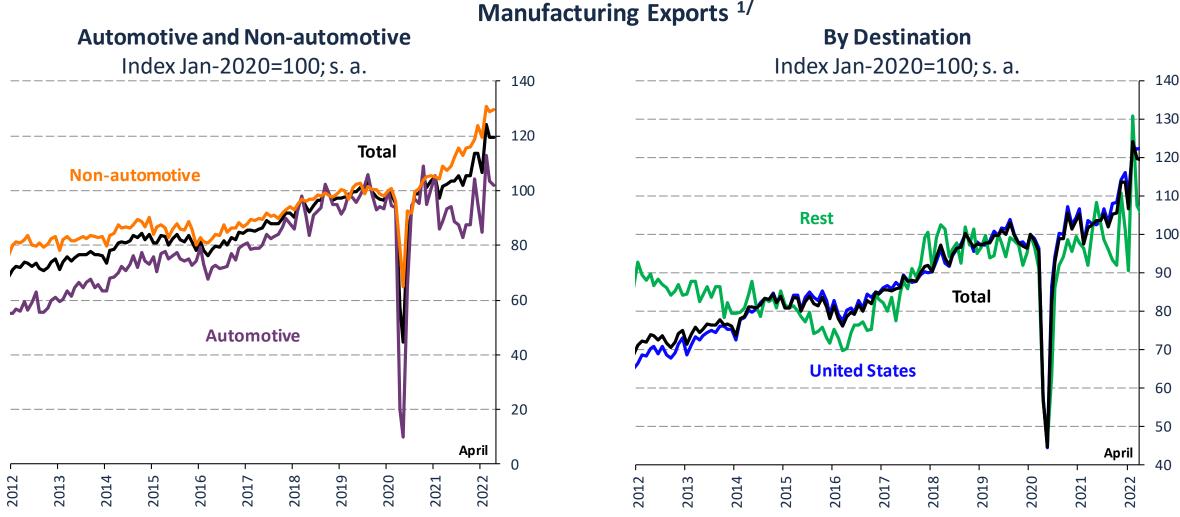
## **Investment and its Components** Index Jan-2020=100, s. a. **Imported machinery** and equipment 120 Construction **Domestic machinery** and equipment 60 **February** 2013 2018 2019 2020 2021 2022 201

s.a./ Seas onally adjusted figures. Source: Mexico's National Accounts System (SCNM, for its acronymin Spanish), INEGI.



s.a./ Seas onally adjusted figures. 1/ Seas onally adjusted by Banco de México, except for the total series. Source: Prepared by Banco de México with data from ENEC, INEGI.

In Q1-2022, manufacturing exports continued expanding as a reflection of the dynamism of non-automotive exports and the recovery of automotive exports, although in April the latter exhibited a certain loss of dynamism.

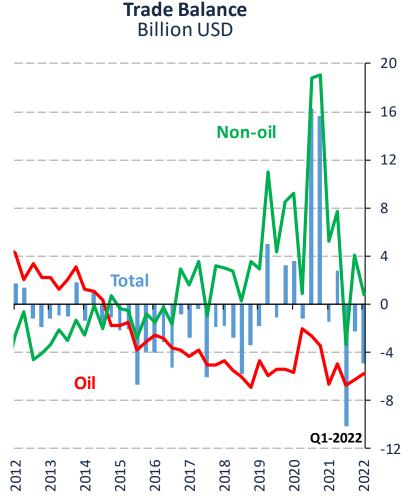


s.a./Seasonally adjusted figures.

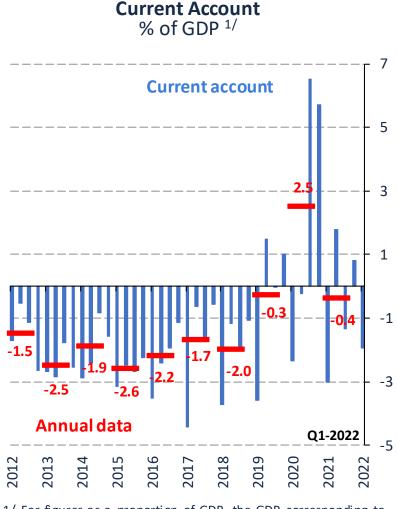
<sup>1/</sup>Based in current US dollars.

Source: Prepared by Banco de México with data from PMI Comercio Internacional, S.A. de C.V., SAT, SE, Banco de México, INEGI. Commercial Balance of Goods of Mexico. SNIEG. Information of National Interest.

In Q1-2022, the current account registered a deficit of 1.9% of GDP, which is below the 3.0% deficit observed in Q1-2021. This mainly derived from the higher income from tourism and remittances, as well as from lower deficits in the balance of primary income and the oil trade balance.



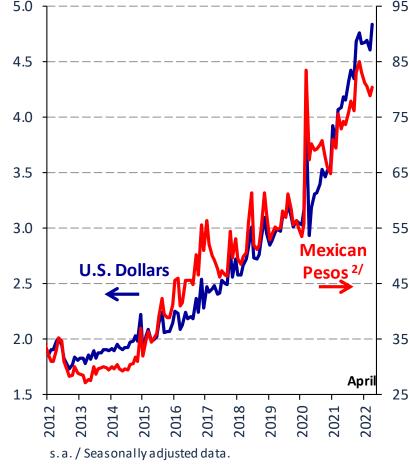
Source: SAT, SE, Banco de México, INEGI. Mexico's Merchandise Trade Balance. SNIEG. Information of national interest.



1/ For figures as a proportion of GDP, the GDP corresponding to each quarter is used.

Source: Banco de México and INEGI.

# Workers' Remittances USD and constant pesos billions, s. a.

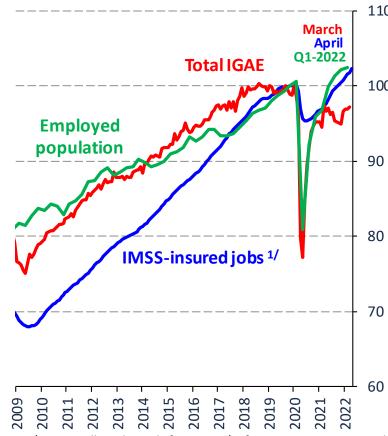


 $1/\operatorname{Prices}$  as of the second fortnight of July 2021.

Source: Banco de México and INEGI.

# After being somewhat affected by the fourth wave of the COVID-19 pandemic in January, between February and April labor market indicators improved.





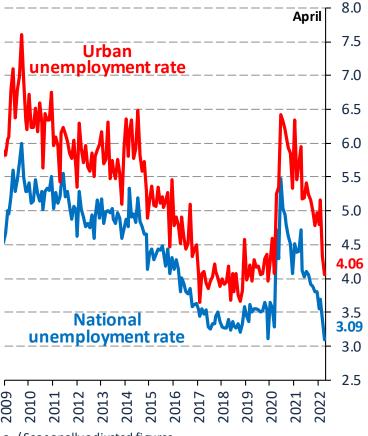
s. a. / Seasonally adjusted figures. 1/Refers to permanent and temporary urban workers. Seasonally adjusted by Banco de México. Source: Prepared by Banco de México with data from IMSS and INEGI (SCNM, ENOE, ETOE and ENOE $^{\rm N}$ ).

#### National Labor Participation Rate <sup>2/</sup> y Employment Rate of Working-age Population <sup>3/</sup> %, S. a.



s. a. / Seasonally adjusted figures. 2/ Percentage of Economically Active Population (PEA, for its acronym in Spanish) with respect to the population of 15 years and older. 3/ Percentage of population of 15 years and older. Source: Prepared by Banco de México with data from INEGI (ENOE,

#### National and Urban Unemployment Rates %, s. a.



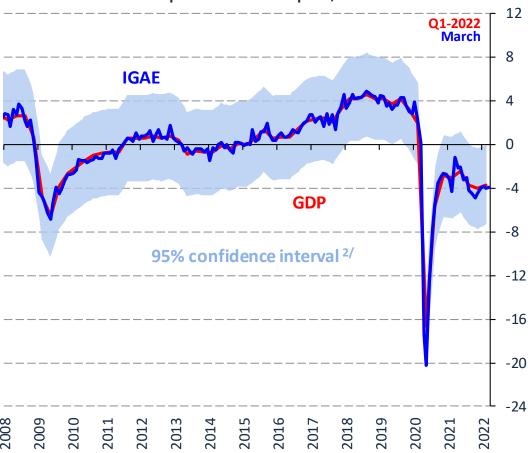
s.a./Seasonally adjusted figures. Source: Prepared by Banco de México with data from INEGI (ENOE, ETOE and  $ENOE^N$ ).

ETOE and ENOEN

As to the cyclical position of the economy, in Q1-2022 slack conditions decreased with respect to Q4-2021, although they remained ample and with certain differences across sectors.

## Output Gap Estimate 1/

% of potential output, s. a.

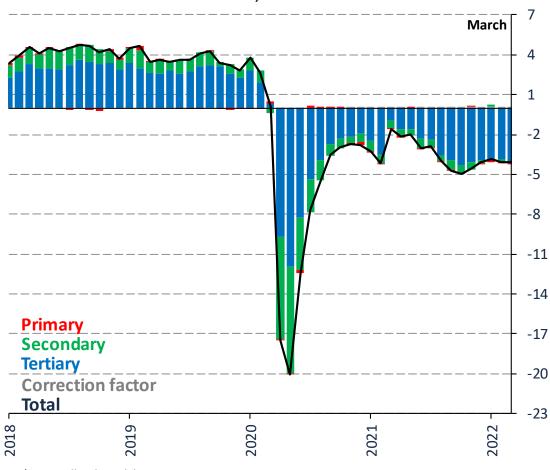


s.a./Seasonally adjusted data.

2/ Output gap confidence interval calculated with a method of unobserved components. Source: Prepared by Banco de México with data from INEGI and Banco de México.

## Sectoral Shares to Aggregate Slack 3/

%, s. a.



s. a./ Seasonally adjusted data.

3/Estimated with a tail-corrected Hodrick-Prescott filter; see "Inflation Report January – March 2021", Banco de México, p.35.

Source: Prepared by Banco de México with data from INEGI and Banco de México.

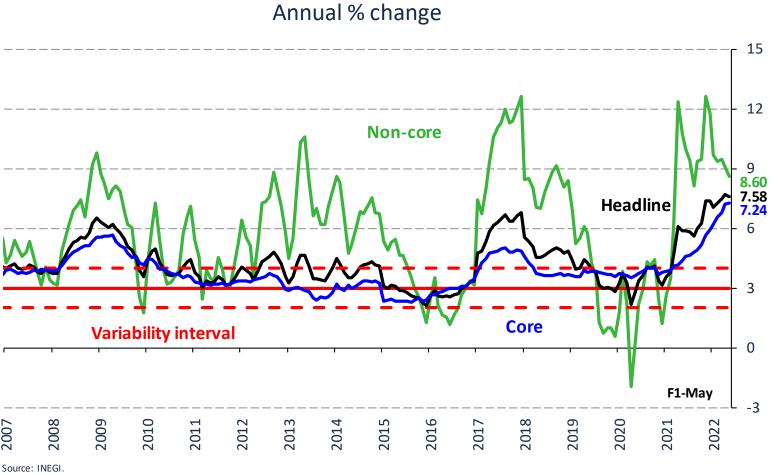
<sup>1/</sup>Output gap estimated with a tail-corrected Hodrick-Prescott filter; see "Inflation Report April – June 2009", Banco de México, p. 74.

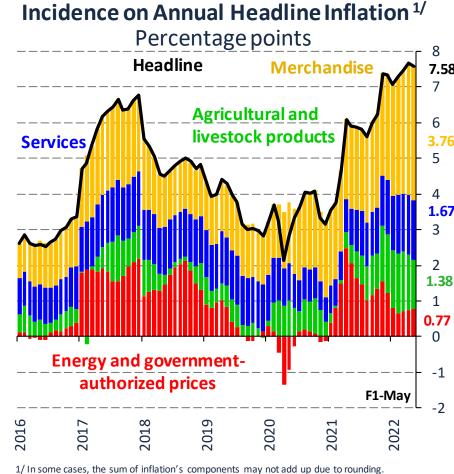
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In Q1-2022, the inflation outlook became more complex, since, in addition to the shocks caused by the COVID-19 pandemic, there are now pressures associated with the military conflict. Thus, between Q4-2021 and Q1-2022 annual headline inflation increased from 6.99 to 7.27%, and reached 7.58% in F1-May, a level unseen in two decades.

#### **Consumer Price Index**

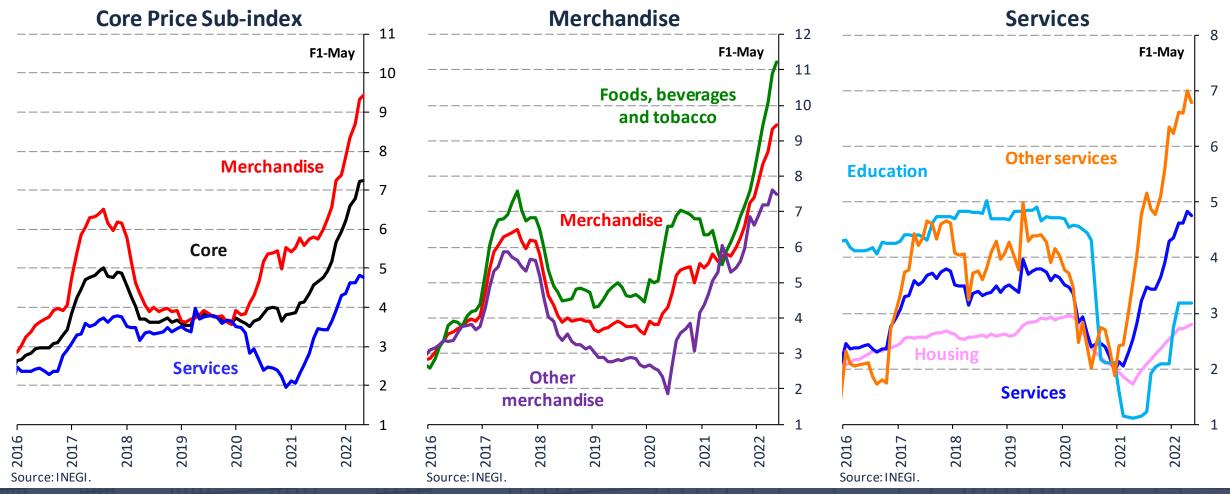




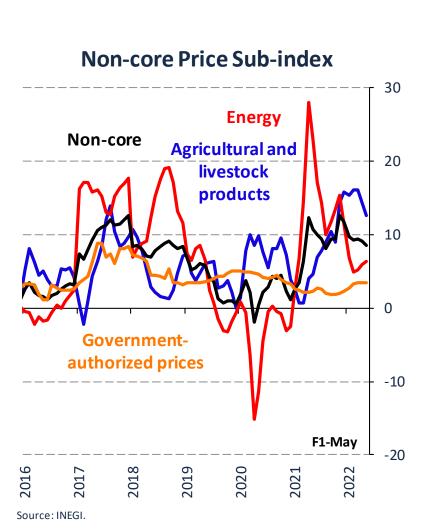
Source: Prepared by Banco de México with data from INEGI

Annual core inflation has trended upwards for over a year, reaching levels that had not been registered since 2001. This is due to the combination of pandemic-related shocks and pressures on the prices of both food and non-food commodities, associated with the military conflict. Thus, between Q4-2021 and Q1-2022, core inflation increased from 5.60 to 6.53%, reaching 7.24% in F1-May.

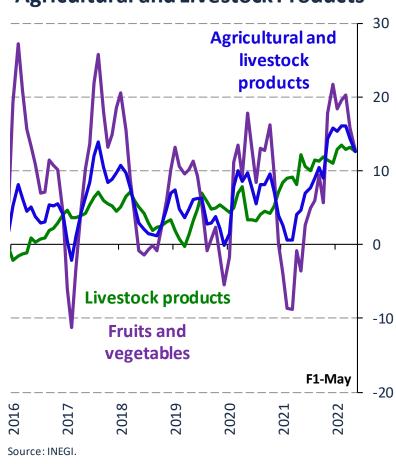
# Core Price Sub-index Annual % change

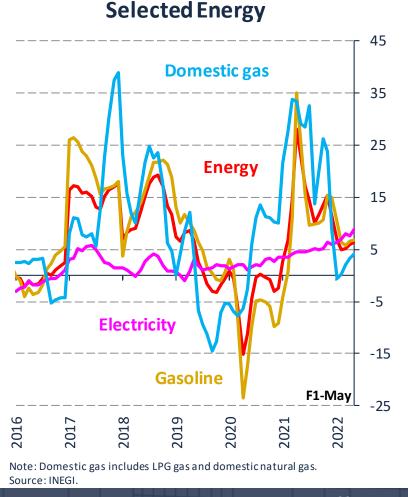


Between Q4-2021 and Q1-2022, annual non-core inflation still remained at high levels despite having declined slightly from 11.28 to 9.49%, respectively, and then further to 8.60% in F1-May. These high levels have been mostly attributed to the high inflation rates of agricultural and livestock products.









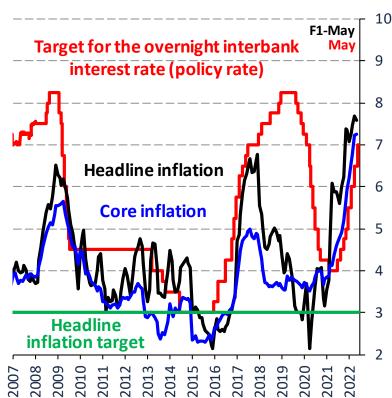
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Given the intensification of inflationary pressures and the greater challenge that controlling inflation implied, the Governing Board raised the target for the overnight interbank interest rate by 50 basis points in each monetary policy decision since December 2021, up to its current level of 7%.

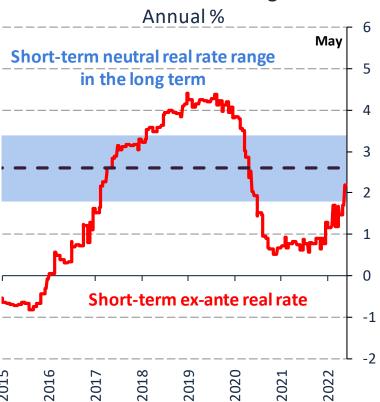
## Target for the Overnight Interbank Interest Rate, Headline and Core Inflation <sup>1/</sup>

Annual %



1/ The data shown up to January 20, 2008 corresponds to the Overnight Interbank Interest Rate (policy rate).
Source: Banco de México with INEGI data.

Short-term Ex-Ante Real Rate and Estimated Range for the Short-term Neutral Real Rate in the Long Term <sup>2/</sup>

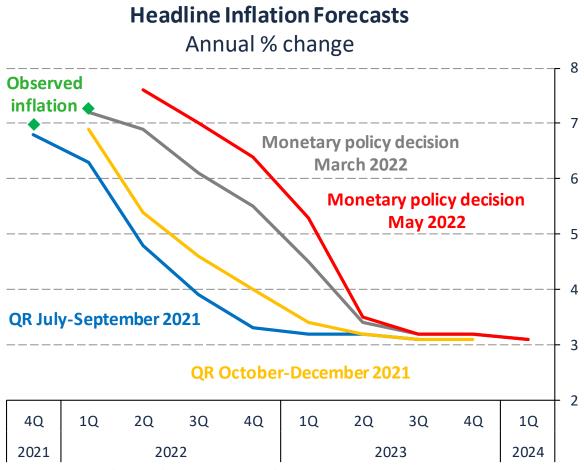


2/ The short-term ex ante real rate is constructed using the target for the overnight Interbank interest rate and 12 month inflation expectations from Banco de México's Survey published on June 1, 2022. The dotted line corresponds to the midpoint of the range for the short term neutral real rate in the long term, which is now between 1.8 and 3.4%. Source: Banco de México.

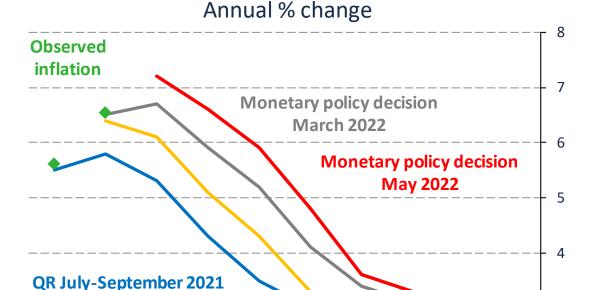


in its iviay aecision, the Governing Board highlighted that, given the growing complexity in the environment for inflation and its expectations, it will consider taking more forceful measures to attain the inflation target. The above reinforces Banco de México's commitment with its constitutional mandate.

Considering that the magnitude and duration of shocks on inflation have been greater than anticipated, Banco de México revised its inflation forecasts upwards in its Monetary Policy Statements of March and May 2022.







**QR October-December 2021** 

10

2023

4Q

**Core Inflation Forecasts** 

Note: Observed inflation refers to the average of the quarter.

2022

Source: Banco de México and INEGI.

4Q

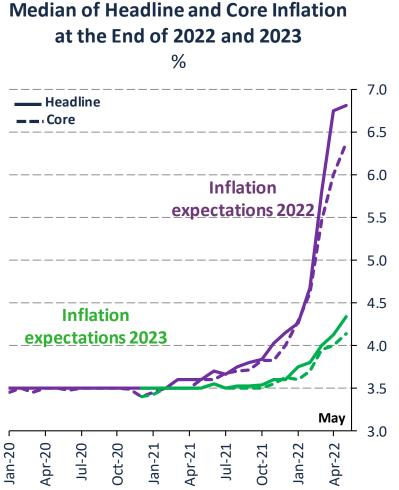
2021

1Q

2024

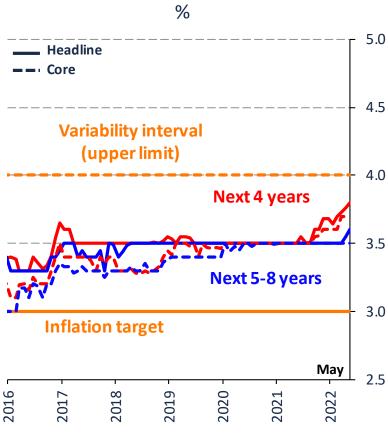
4Q

# Headline and core inflation expectations for 2022 and 2023 increased considerably. Those for the medium term rose, while longer term ones have remained at levels above the target.



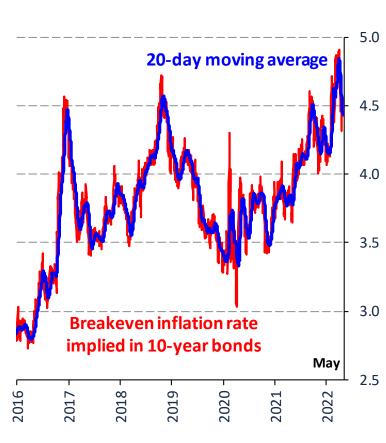
Source: Banco de México's Survey of Private Sector Forecasters published on June 1, 2022.

Median of Medium- and Long-term Inflation Expectations



Source: Banco de México's Survey of Private Sector Forecasters published on June 1, 2022.

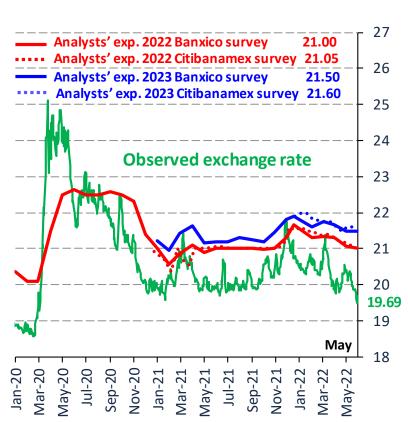
Breakeven Inflation Rate Implied in Bonds



Note: The breakeven Inflation rate is calculated as the difference between nominal and real long-term interest rates. Source: Estimated by Banco de México with Valmer and PiP data.

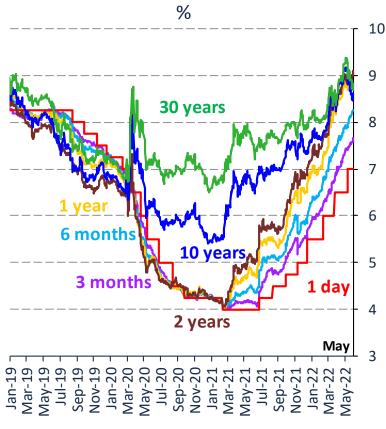
Regarding financial markets, the exchange rate depreciated between the end of February and mid-March. However, since then, the Mexican peso exhibited a better performance. Interest rates presented generalized increases.

# Nominal Exchange Rate 1/ Pesos per US dollar



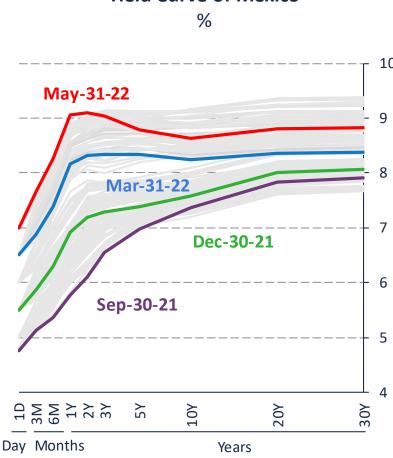
1/ Observed exchange rate refers to the daily FIX exchange rate. Figures next to analysts' expectations correspond to the medians of Banco de México's survey for May, published on June 1, 2022 and the Citi banamex survey of May 20, 2022. Source: Banco de México and Citibanamex.

# Target for the Overnight Interbank Interest Rate and Government Bond Yields



Source: Proveedor Integral de Precios (PiP).

#### **Yield Curve of Mexico**



Note: The gray lines refer to the daily yield curves since September 30, 2021. Source: *Proveedor Integral de Precios* (PiP).

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- 4 Monetary policy
- 5 Forecasts and final remarks

## **Economic Activity Outlook**

**GDP Growth** 

	Report	2022	2023
Current	Lower Limit	1.6	1.4
	<b>Central Scenario</b>	2.2	2.4
	<b>Upper Limit</b>	2.8	3.4
Previous	Lower Limit	1.6	1.9
	<b>Central Scenario</b>	2.4	2.9
	<b>Upper Limit</b>	3.2	3.9

#### **Increase in Number of IMSS-insured Jobs Thousands**

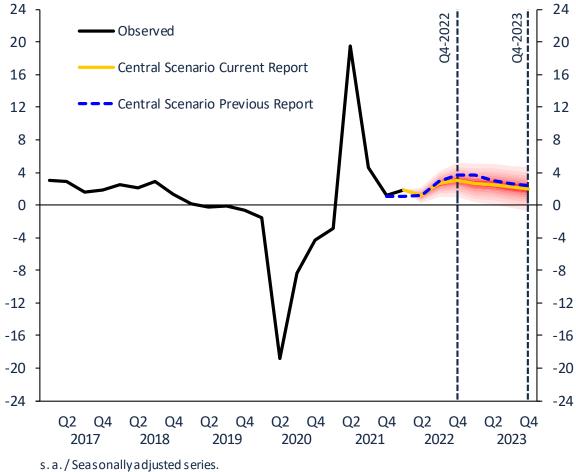
Report	2022	2023
Current	560 a 760	490 a 690
Previous	560 a 760	510 a 710

#### **Current Account** % of GDP

Report	2022	2023
Current	-0.5 a 0.2	-0.5 a 0.3
Previous	-0.6 a 0.1	-0.7 a 0.1

## **Fan Chart: GDP Quarterly Growth**

Annual %, s. a.



Source: INEGI and Banco de México.

## **Risks to Growth**

The downward bias in the balance of risks gained strength.

## On the downside

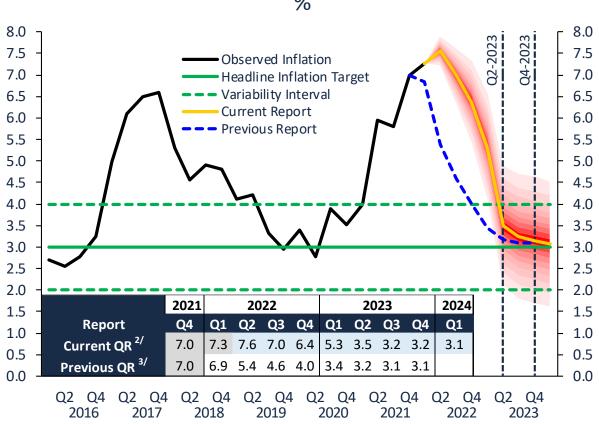
- **▶** A lower external demand to the detriment of economic activity in Mexico.
- ◆ That the impact on trade and bottlenecks continues, leading to higher input and production costs.
- **▶** Tighter financial conditions and episodes of volatility in international financial markets.
- **▶** A lower-than-expected recovery of investment spending.
- **▶** New waves of contagion negatively affecting economic recovery.

## On the upside

- ↑ That a lower number of reported COVID-19 infections leads to a more vigorous recovery of the economy.
- ↑ That, within the framework of the USMCA, Mexico becomes an attractive destination for investment.
- ↑ That global financial conditions conducive to a faster economic recovery are maintained.

The inflation trajectory presented in the Monetary Policy Statement of May is maintained. <u>Annual headline inflation</u> is expected to reach its peak in Q2-2022. Subsequently, it is expected to decrease in the rest of 2022 and during 2023, reaching levels close to 3% in Q1-2024.

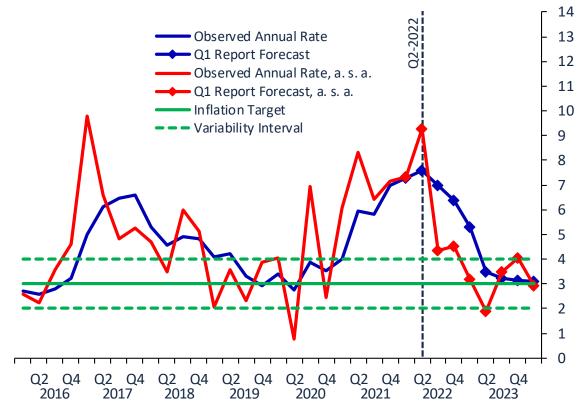
#### Fan Chart: Annual Headline Inflation 1/



1/ Quarterly average of annual inflation. The next four and six quarters are indicated with dotted vertical lines from the second quarter of 2022, that is, the second quarter of 2023 and the fourth quarter of 2023, respectively; periods in which the monetary policy transmission channels fully operate. 2/ Forecast since May 2022. It also corresponds to the forecast published in the Monetary Policy Statement of May 12, 2022. 3/ Forecast since February 2022. It also corresponds to the forecast published in the Monetary Policy Statement of February 10, 2022. Source: Banco de México and INEGI.

#### **Headline Inflation**

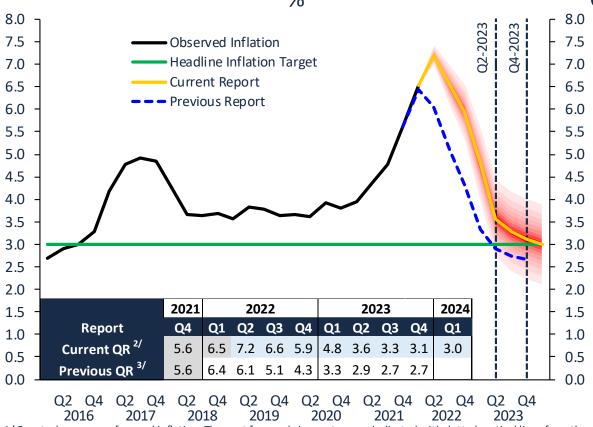
Quarterly change, annualized and s. a., and annual change in %



s.a./Seasonally adjusted figures.

a. s. a. / Annualized seasonally adjusted figures. Source: Banco de México and INEGI. Annual core inflation is expected to remain on an upward trend in Q2-2022, and later decline during 2022 and 2023, reaching 3% in Q1-2024. The trajectories for headline and core inflation consider that the effects of the pandemic-related shocks and the military conflict will fade. However, it cannot be ruled out that these shocks will be more lasting or that new shocks occur.

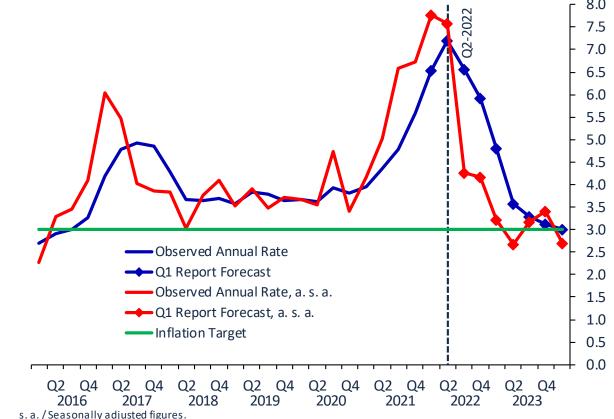
## Fan Chart: Annual Core Inflation 1/ %



1/ Quarterly average of annual inflation. The next four and six quarters are indicated with dotted vertical lines from the second quarter of 2022, that is, the second quarter of 2023 and the fourth quarter of 2023, respectively; periods in which the monetary policy transmission channels fully operate. 2/Forecast since May 2022. It also corresponds to the forecast published in the Monetary Policy Statement of May 12, 2022. 3/ Forecast since February 2022. It also corresponds to the forecast published in the Monetary Policy Statement of February 10, 2022. Source: Banco de México and INEGI.

#### **Core Inflation**

Quarterly change, annualized and s. a., and annual change in %



s.a./Seasonally adjusted figures.

a. s. a. / Annualized seasonally adjusted figures.

Source: Banco de México and INEGI.

## Risks to Inflation Outlook within the Forecast Horizon

The balance of risks remains biased to the upside and has continued deteriorating.

## On the upside

- ↑ Persistence of core inflation at high levels.
- ♠ External inflationary pressures associated with the evolution of the pandemic.
- **↑** Greater price-related pressures derived from the geopolitical conflict.
- ↑ Episodes of exchange rate depreciation.
- ↑ Cost-related pressures associated with hiring conditions or wages.

## On the downside

- **▶** A reduction in the intensity of the military conflict between Russia and Ukraine.
- ◆ That production and distribution chains resume an efficient functioning.
- ◆ That, given the slack conditions in the economy, cost-related pressures and labor hiring conditions do not exert pressures on prices.
- ◆ That the measures implemented by the Policy Program to Fight Inflation and High Prices (PACIC) have a greater-than-anticipated effect.

## **Final Remarks**

- The global evolution of the health emergency remains uncertain, and it continues to cause problems in global supply chains. This complex environment has been aggravated by the military conflict, and it has exacerbated many of the pandemic-related impacts.
- In this context, to support the reactivation of economic activity, Mexico's economic policy must continue to maintain solid macroeconomic fundamentals, including a sound and resilient financial system, as well as a monetary policy focused on attaining price stability.
- In this regard, Banco de México Governing Board determines its monetary policy stance seeking to promote an orderly adjustment of relative prices, of the financial markets and of the economy overall, leading to the convergence of inflation to its 3% target and maintaining inflation expectations anchored.

## Annex – Boxes

- 1 Determinants of US Inflation
- 2 Mexico's Trade Exposure in light of the Military Conflict in Eastern Europe
- Inflationary Pressures in the Concurrence of the Pandemic and the War between Russia and Ukraine

