

# Global | Inflation and Bottlenecks Chartbook

**Updated June 2023** 

#### **Summary**

- The ongoing decline in headline inflation accelerated in May in most BBVA footprint countries. Core inflation seems to have left the peaked behind (ex-Argentina) but declines are very gradual, uneven across countries and affected by one-off measures in some cases.
- US inflation maintained the downward trend in May, to 4% (from 4.9% YoY in April), dragged by gasoline prices However, core inflation showed only a mild drop (5.3% from 5.5%). The rent components explained most of the increase in core inflation, while leading indicators point a decline in rents in coming months.
- Euro Area inflation declined more than expected in May (headline 6.1% YoY; core 5.3% YoY). Services inflation eased markedly in sequential terms. Yet Germany's transport subsidies may have played a role. Disinflationary trends in energy inflation gained traction. Inflation of food and non-energy industrial good increased but point to a moderation
- Synchronicity and persistence indicators showed a small improvement. Though items in CPI basket with inflation above 4% still represent 30% in the US and 50% in the in the Euro Area, in Europe items with inflation above 8% have fallen.
- Consumer long-term inflation expectations (US 3%; Euro Area 4%) remain well above both central banks' targets and market-based long-term inflation expectations. The US and the Euro Area analysts also forecast long-term inflation above central banks' targets (US 2%-2.9%, Euro Area 2%-2.5%)
- Our supply bottlenecks indicator continues soften in the Euro Area and is close to normalized levels, as shortage of
  materials and lower demand for goods helped to contain it. In the US, the indicador is even below normalized levels,
  reflection of lackluster manufacturing figures

#### **Summary indicators**

1 2	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Арг-23	May-23		and the second of the second o
	8.5	8.9	8.4	8.2	8.2	7.8	7.1	6.4	6.3	6.0	5.0	5.0	4.1		IPC Headline (%YoY, SA)
	6.0	5.9	5.9	6.3	6.6	6.3	6.0	5.7	5.5	5.5	5.6	5.5	5.3		IPC Core (%YoY, SA)
	0.9	1.2	0.0	0.2	0.4	0.5	0.2	0.1	0.5	0.4	0.1	0.4	0.1	US	IPC Headline (%MoM, SA)
	0.6	0.6	0.3	0.6	0.6	0.3	0.3	0.4	0.4	0.5	0.4	0.4	0.4	03	IPC Core (%MoM, SA)
	4.3	3.6	3.4	3.0	2.5	3.1	2.8	2.5	2.3	2.8	2.6	2.4	2.3		Inf exp (2Y inf. Swap)
Inflation	2.7	2.7	2.6	2.5	2.5	2.7	2.6	2.6	2.5	2.6	2.6	2.5	2.6		Inf exp (5Y5Y inf. Swap)
mation	8.1	8.7	8.9	9.2	9.9	10.5	10.0	9.2	8.6	8.5	6.8	7.0	6.1		IPC Headline (%YoY, SA)
	3.7	3.8	4.1	4.4	4.7	5.0	4.9	5.2	5.2	5.6	5.8	5.7	5.3		IPC Core (%YoY, SA)
	0.8	0.7	0.7	0.7	1.0	1.1	0.3	0.1	0.4	0.7	-0.1	0.5	0.0	EZ	IPC Headline (%MoM, SA)
	0.5	0.3	0.5	0.5	0.6	0.5	0.4	0.4	0.4	0.7	0.5	0.4	0.2	LZ	IPC Core (%MoM, SA)
	4.7	4.1	4.6	4.9	3.5	3.9	3.5	3.4	2.3	2.8	3.0	2.8	2.5		Inf exp (2Y inf. Swap)
	2.2	2.2	2.1	2.0	2.2	2.3	2.4	2.4	2.3	2.5	2.3	2.5	2.5		Inf exp (5Y5Y inf. Swap)
	55.1	54.9	48.6	50.4	47.3	48.2	46.8	45.1	42.5	47.0	44.3	45.7	42.6		ISM New Orders
	58.7	58.7	51.3	53.0	50.9	45.3	40.0	41.4	43.4	45.1	43.9	43.1	37.5		Backlog of Orders
	54.2	54.4	53.3	51.1	51.0	51.9	50.9	48.6	48.0	47.3	47.8	48.9	51.1	US manuf.	Production Index
	65.7	57.3	55.2	55.1	52.4	46.8	47.2	45.1	45.6	45.2	44.8	44.6	43.5		Suppliers' delivery times
	32.7	35.2	39.5	38.9	41.6	41.6	48.7	48.2	47.4	46.9	48.9	51.3	51.4		Customer Inventories
Bottlenecks	7.20	13.3	4.6	-2.7	-3.5	-5	-11.2	-12	-8.7	-9.2	-9.6	-13.8	-21.7	EZ	Order books
	5.0	7.8	3.2	0.0	1.4	0.7	-3.8	0.6	-0.2	4.0	2.3	3.2	-6.6	manuf.	Production trend
	30.7	27.9	26.8	25.9	26.0	24.7	23.2	21.9	21.8	19.4	16.7	13.2	11.3	EZ const.	Equip shortage
	61.7	54.8	49.3	45.6	44.2	44.3	42.7	44.1	46.4	44.5	44.8	42.2	43.5	Taiwan	Suppliers' delivery times
	634	619	580	587	568	558	560	558	557	553	546	546	546	Input costs	CRB Spot Comdty. Price
	4407	4401	4467	4449	4163	1905	1405	1372	1229	1100	1059	1108	1217	input costs	Container freight

Note: US and Taiwan (SA, 50+=Increasing); EZ Percent Balance (SA, %). Source: BBVA Research and Haver Analytics

# Headline inflation in the US fell to 4.1% in May and 6.1% in EZ, the lowest in two and one year respectively and continues its moderation in most countries

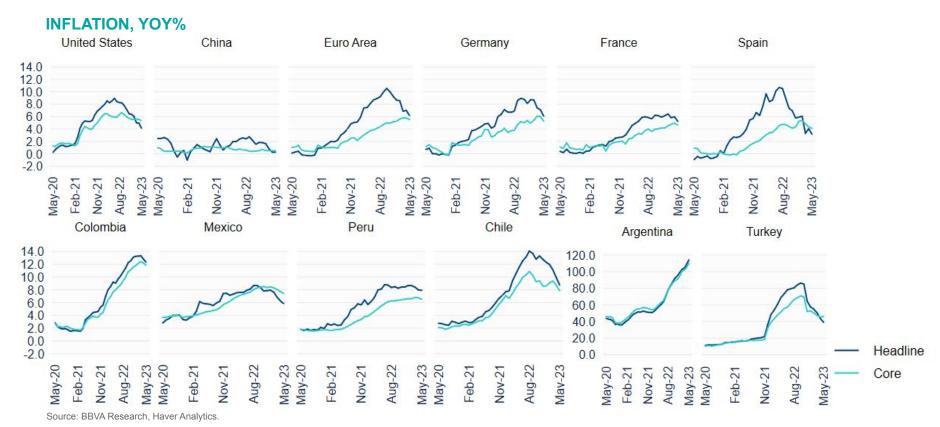
	ne Inflation											20	22							20	23		
	J	Α	S	0	N	D	J	F	M	A	M	J	J	Α	S	0	N	D	J	F	M	Α	M
JS	5.2	5.2	5.4	6.2	6.9	7.2	7.6	8.0	8.5	8.2	8.5	8.9	8.4	8.2	8.2	7.8	7.1	6.4	6.3	6.0	5.0	5.0	4.1
hina	0.8	0.6	0.3	1.5	2.4	1.4	0.6	1.1	1.3	2.0	2.0	2.4	2.6	2.4	2.7	2.1	1.5	1.8	1.8	1.6	0.8	0.3	0.3
ırozone	2.2	3.0	3.4	4.0	4.8	5.0	5.1	5.9	7.4	7.5	8.1	8.7	8.9	9.2	9.9	10.5	10.0	9.2	8.6	8.5	6.8	7.0	6.1
ermany	3.7	3.8	4.1	4.4	4.8	4.9	4.1	4.4	6.0	6.4	7.1	6.7	6.7	6.9	8.6	8.9	8.8	8.1	8.7	8.7	7.4	7.1	6.0
ance	1.2	2.0	2.1	2.5	2.6	2.7	3.0	3.7	4.5	4.9	5.3	5.8	6.0	5.8	5.6	6.2	6.1	5.9	6.1	6.4	5.8	6.0	5.
oain	2.8	3.2	4.0	5.4	5.7	6.6	6.2	7.7	9.7	8.4	8.7	10.1	10.7	10.5	8.9	7.3	6.9	5.8	5.9	6.1	3.3	4.0	3.
irkey	18.8	19.5	20.1	20.5	21.9	36.2	48.6	54.1	60.9	68.8	73.4	78.1	79.5	80.5	84.1	86.2	85.1	64.3	57.6	54.9	50.4	43.6	39.
rgentina	51.6	51.2	52.5	51.9	51.2	51.0	50.8	52.5	55.2	58.1	60.7	64.0	70.8	78.2	83.1	87.9	92.5	94.9	98.9	102.6	104.4	108.8	114
lombia	4.0	4.4	4.5	4.6	5.3	5.6	6.9	8.0	8.5	9.2	9.0	9.7	10.2	10.8	11.4	12.3	12.6	13.1	13.3	13.3	13.3	12.8	12
exico	5.7	5.5	5.9	6.2	7.4	7.4	7.1	7.3	7.5	7.7	7.6	7.9	8.1	8.7	8.7	8.4	7.8	7.9	8.0	7.6	6.9	6.2	5.
ru	3.8	4.9	5.2	5.8	5.6	6.4	5.7	6.2	6.9	8.0	8.1	8.8	8.7	8.4	8.5	8.3	8.4	8.4	8.7	8.7	8.4	8.0	7.
ore Inf	latio	3.9	4.0	4.6	5.0	5.5	6.1	6.4	6.5	6.1	6.0	5.9	5.9	6.3	6.6	6.3	6.0	5.7	5.5	5.5	5.6	5.5	5.
5																							
	1.2	1.1	1.1	1.1	1.0	1.0	0.9	1.1	0.9	0.7	0.6	0.8	0.6	0.6	0.4	0.4	0.4	0.5	0.7	0.5	0.5	0.5	0.
ina	1.2 0.9	1.1	1.1	1.1	1.0		0.9		0.9	0.7 3.4	0.6 3.7	0.8	0.6 4.1	0.6 4.4	0.4 4.7	0.4 5.0	0.4 4.9	0.5 5.2	0.7 5.2	0.5 5.6	0.5 5.8	0.5 5.7	_
ina rozone	55.00	THE RESERVE OF THE PERSON NAMED IN	10000		_	1.0	ROUGHSTON .	1.1	-			_	-	-		-	-			711107		_	0. 5.
ina rozone rmany	0.9	1.7	1.9	2.1	2.5	1.0 2.6	2.1	1.1 2.6	3.0	3.4	3.7	3.8	4.1	4.4	4.7	5.0	4.9	5.2	5.2	5.6	5.8	5.7	0. 5. 5.
ina rozone rmany ance	0.9 2.0	1.7 2.3	1.9 2.7	2.1	2.5 3.9	1.0 2.6 3.9	2.1	1.1 2.6 2.9	3.0 3.5	3.4 3.6	3.7 4.1	3.8 3.4	4.1 3.7	4.4 3.8	4.7 4.7	5.0 5.2	4.9 5.0	5.2 5.4	5.2 4.9	5.6 5.4	5.8 6.1	5.7 6.0	0. 5. 5. 4.
ina rozone rmany ance ain	0.9 2.0 0.4	1.7 2.3 1.4	1.9 2.7 1.7	2.1 2.9 1.9 1.4 17.5	2.5 3.9 2.0 1.7 18.4	1.0 2.6 3.9 2.0 1.9 31.9	2.1 2.7 1.6 2.1 39.2	1.1 2.6 2.9 2.4 2.6 43.5	3.0 3.5 2.5	3.4 3.6 3.0	3.7 4.1 3.2	3.8 3.4 3.2	4.1 3.7 3.8	4.4 3.8 4.0 4.7 66.4	4.7 4.7	5.0 5.2 4.0	4.9 5.0 4.0	5.2 5.4 4.2	5.2 4.9 4.2	5.6 5.4 4.5	5.8 6.1 4.8	5.7 6.0 4.9	0. 5. 5. 4. 4.
na rozone rmany ince ain key	0.9 2.0 0.4 0.4	1.7 2.3 1.4 0.5 17.1 55.3	1.9 2.7 1.7 0.9 17.5 57.0	2.1 2.9 1.9 1.4 17.5 56.6	2.5 3.9 2.0 1.7 18.4 55.8	1.0 2.6 3.9 2.0 1.9	2.1 2.7 1.6 2.1 39.2 54.1	1.1 2.6 2.9 2.4 2.6 43.5 54.8	3.0 3.5 2.5 3.0	3.4 3.6 3.0 3.4 51.5 60.4	3.7 4.1 3.2 3.5 55.6 63.0	3.8 3.4 3.2 4.0 57.3 65.4	4.1 3.7 3.8 4.6 62.0 71.9	4.4 3.8 4.0 4.7 66.4 78.2	4.7 4.7 3.6 4.7	5.0 5.2 4.0 4.4	4.9 5.0 4.0 4.1	5.2 5.4 4.2 4.3 51.9 90.7	5.2 4.9 4.2 5.2	5.6 5.4 4.5 5.4 50.3 100.6	5.8 6.1 4.8 4.8 47.2 102.1	5.7 6.0 4.9 4.3	0 5 5 4 4 45 11
ina rozone ermany ance pain rkey gentina elombia	0.9 2.0 0.4 0.4 17.3 55.0 3.6	1.7 2.3 1.4 0.5 17.1 55.3 3.9	1.9 2.7 1.7 0.9 17.5 57.0 3.8	2.1 2.9 1.9 1.4 17.5 56.6 3.7	2.5 3.9 2.0 1.7 18.4 55.8 4.2	1.0 2.6 3.9 2.0 1.9 31.9 54.9 4.4	2.1 2.7 1.6 2.1 39.2 54.1 5.5	1.1 2.6 2.9 2.4 2.6 43.5 54.8 6.4	3.0 3.5 2.5 3.0 47.9 57.4 6.9	3.4 3.6 3.0 3.4 51.5 60.4 7.7	3.7 4.1 3.2 3.5 55.6 63.0 8.0	3.8 3.4 3.2 4.0 57.3 65.4 8.4	4.1 3.7 3.8 4.6 62.0 71.9 8.8	4.4 3.8 4.0 4.7 66.4 78.2 9.4	4.7 4.7 3.6 4.7 68.5 82.3 10.0	5.0 5.2 4.0 4.4 70.9 86.4 10.8	4.9 5.0 4.0 4.1 69.5 89.3 11.1	5.2 5.4 4.2 4.3 51.9 90.7 11.6	5.2 4.9 4.2 5.2 52.9 94.5 11.8	5.6 5.4 4.5 5.4 50.3 100.6 12.2	5.8 6.1 4.8 4.8 47.2 102.1 12.4	5.7 6.0 4.9 4.3 45.4 105.1 12.2	0. 5. 4. 4. 45 110
ina rozone ermany ance eain rkey gentina	0.9 2.0 0.4 0.4 17.3 55.0	1.7 2.3 1.4 0.5 17.1 55.3	1.9 2.7 1.7 0.9 17.5 57.0	2.1 2.9 1.9 1.4 17.5 56.6	2.5 3.9 2.0 1.7 18.4 55.8	1.0 2.6 3.9 2.0 1.9 31.9 54.9	2.1 2.7 1.6 2.1 39.2 54.1	1.1 2.6 2.9 2.4 2.6 43.5 54.8	3.0 3.5 2.5 3.0 47.9 57.4	3.4 3.6 3.0 3.4 51.5 60.4	3.7 4.1 3.2 3.5 55.6 63.0	3.8 3.4 3.2 4.0 57.3 65.4	4.1 3.7 3.8 4.6 62.0 71.9	4.4 3.8 4.0 4.7 66.4 78.2	4.7 4.7 3.6 4.7 68.5 82.3	5.0 5.2 4.0 4.4 70.9 86.4	4.9 5.0 4.0 4.1 69.5 89.3	5.2 5.4 4.2 4.3 51.9 90.7	5.2 4.9 4.2 5.2 52.9 94.5	5.6 5.4 4.5 5.4 50.3 100.6	5.8 6.1 4.8 4.8 47.2 102.1	5.7 6.0 4.9 4.3 45.4 105.1	0 5 5 4 4 45 11

Period considered: 2015-2019

StDev below: StDev above: +than 3 2 to 3 1 to 2 -1 to +1 1 to 2 2 to 3 +than 3

Source: BBVA Research, Haver Analytics. We report here harmonised core inflation excluding food and energy. These measures may differ from local measures of core inflation where EA and Spain: excludes unprocessed food and energy, France excludes government tariffs and volatile prices, Germany excludes energy prices.

# Headline inflation inched down in most BBVA footprint countries. Core inflation started to edge down or level off (ex-Arg) but is still high



# Sequentially, gains in headline inflation have started to normalize to historical levels, (ex-Tur) although core prices show greater persistence

INFL	ΛТІ		MO	V/ 0/	(01)
		OIV.		IAI \U	LOAL

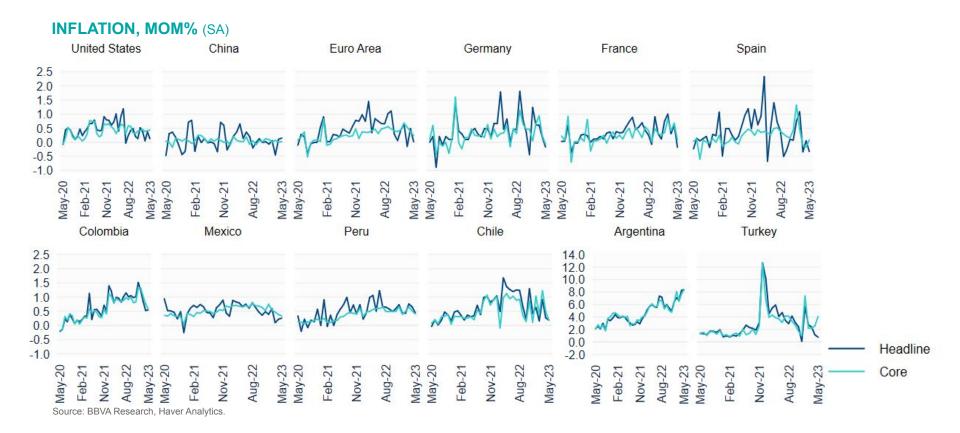
Headline Inflation																				0.0				
	2021							2022											2023					
	J	Α	S	0	N	D	J	F	M	A	M	J	J	Α	S	0	N	D	J	F	M	Α	M	
US	0.4	0.4	0.4	0.9	0.8	0.8	0.6	0.7	1.0	0.4	0.9	1.2	0.0	0.2	0.4	0.5	0.2	0.1	0.5	0.4	0.1	0.4	0.1	
China	0.0	0.0	-0.3	0.7	0.6	-0.3	0.0	0.2	0.4	0.6	0.1	0.4	0.2	-0.2	0.0	0.1	0.0	0.0	-0.1	0.1	-0.5	0.1	0.1	
Eurozone	0.5	0.4	0.3	0.6	0.8	0.7	1.0	0.7	1.4	0.3	0.8	0.7	0.7	0.7	1.0	1.1	0.3	0.1	0.4	0.7	-0.1	0.5	0.0	
Germany	0.5	0.3	0.2	0.5	0.5	0.2	0.7	0.7	1.8	0.5	0.8	0.0	0.5	0.5	1.8	0.8	0.4	-0.4	1.2	0.6	0.6	0.2	-0.2	
Spain	0.2	0.6	1.0	1.2	0.5	1.2	0.6	0.9	2.3	-0.7	0.5	1.4	0.7	0.4	-0.5	-0.3	0.1	0.1	0.7	1.1	-0.3	0.1	-0.3	
Turkey	2.7	2.3	2.2	1.9	3.1	12.7	10.2	4.5	5.5	5.9	4.1	4.7	3.4	2.9	4.2	3.1	2.4	0.1	5.7	2.8	2.4	1.1	0.8	
Argentina	3.1	2.7	2.8	3.2	2.9	3.7	4.2	5.1	5.7	6.0	5.6	5.5	7.4	7.2	5.6	6.0	5.4	5.0	6.4	7.1	6.6	8.3	8.4	
Colombia	0.6	0.6	0.5	0.3	0.7	0.5	1.4	1.2	0.8	1.0	1.0	0.8	1.0	1.1	1.0	1.1	1.0	1.0	1.5	1.2	0.8	0.5	0.5	
Mexico	0.4	0.3	0.6	0.7	0.9	0.4	0.3	0.9	0.8	0.8	0.6	0.7	0.6	0.8	0.6	0.5	0.4	0.5	0.4	0.6	0.1	0.3	0.2	
Peru	0.7	1.0	0.5	0.7	0.4	0.7	0.2	0.4	1.0	1.1	0.5	1.2	0.7	0.6	0.6	0.5	0.6	0.7	0.4	0.4	0.8	0.7	0.4	
Core In	flatio	n																						
US	0.3	0.2	0.3	0.7	0.6	0.7	0.6	0.5	0.3	0.5	0.6	0.6	0.3	0.6	0.6	0.3	0.3	0.4	0.4	0.5	0.4	0.4	0.4	
China	0.1	0.0	0.1	0.1	0.0	0.0	-0.1	0.2	0.1	0.0	0.0	0.2	-0.1	0.0	-0.1	0.1	0.0	0.1	0.1	0.0	0.1	0.0	0.0	
Eurozone	0.2	0.3	0.2	0.2	0.5	0.1	0.4	0.4	0.3	0.4	0.5	0.3	0.5	0.5	0.6	0.5	0.4	0.4	0.4	0.7	0.5	0.4	0.2	
Germany	0.2	0.2	0.3	0.2	0.6	0.1	0.5	0.2	0.3	0.3	0.6	-0.2	0.5	0.3	1.1	0.6	0.5	0.5	0.1	0.7	0.9	0.2	-0.1	
Spain	-0.1	0.2	0.4	0.5	0.4	0.2	0.4	0.3	0.4	0.3	0.3	0.5	0.5	0.4	0.3	0.2	0.2	0.4	1.3	0.5	-0.1	-0.2	0.1	
Turkey	1.1	1.4	2.0	1.2	2.5	12.6	6.7	3.9	4.3	3.9	3.7	3.1	4.2	4.1	3.3	2.7	1.7	1.0	7.4	2.2	2.2	2.6	4.1	
Argentina	2.6	2.9	2.9	3.5	3.4	4.0	4.1	4.8	5.7	6.1	5.7	5.6	6.7	6.6	5.3	5.8	5.1	4.8	6.2	8.1	6.5	7.7	8.3	
Colombia	0.5	0.5	0.3	0.3	0.6	0.4	1.1	1.0	0.8	0.9	0.9	8.0	0.9	1.0	0.9	1.0	0.8	0.8	1.3	1.3	1.0	0.8	0.6	
Mexico	0.5	0.4	0.5	0.6	0.5	0.7	0.6	0.7	0.7	0.7	0.7	0.7	0.6	0.8	0.7	0.7	0.6	0.5	0.7	0.6	0.5	0.4	0.3	
Peru	0.3	0.4	0.5	0.4	0.4	0.6	0.3	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.7	0.4	0.5	0.7	0.5	0.4	

eriod considered: 2015-2019

Dev below: StDev above

Source: BBVA Research, Haver Analytics. We report here harmonised core inflation excluding food and energy. These measures may differ from local measures of core inflation for the EA and Spain: excludes unprocessed food and energy. France excludes government tariffs and volatile prices, Germany excludes energy prices.

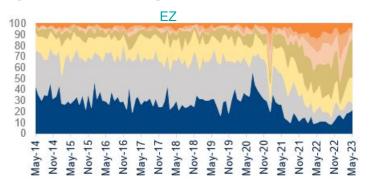
# Monthly changes in inflation suggest that core rates have started to decline in most countries; in contrast, it increased in Türkiye



# Synchronicity measures show percentage of items with annual inflation higher than 4% in the US are around 30%, and near 50% in EA

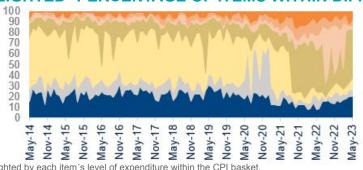
#### PERCENTAGE OF ITEMS WITHIN DIFFERENT INFLATIONARY BRACKETS

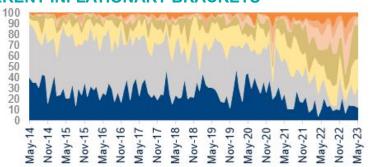




% of two-digit items with an annualized monthly inflation:

#### WEIGHTED\* PERCENTAGE OF ITEMS WITHIN DIFFERENT INFLATIONARY BRACKETS





(20 and more)(12 to 20)(8 to 12)(4 to 8)(2 to 4)

■(0 to 2)

,

■(Less than 0)

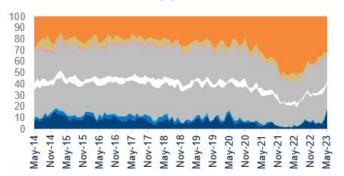
\*weighted by each item's level of expenditure within the CPI basket. Source: BBVA Research based on Haver Analytics

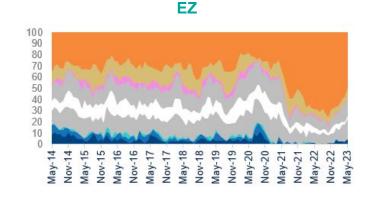
# The share of items with prices with frequent upward adjustments maintains the moderating trend in the US and also in the Euro Area

Slight upwards trend

■ Medium downward trend

#### PERCENTAGE OF ITEMS WITH FREQUENT ADJUSTMENTS US





Medium downward trend refers to 3 price reductions and no increases in the last three months.

Slight downward trend refers to 2 price reduction and no increases in the last three months:

Noise: refers to both price increases AND reductions in the last three months.

No signal: refers to no significant change in prices in the last three months

Slight upward trend refers to 2 price increase and no reduction in the last three months:

Medium upwards trend refers to 3 price increases and no reductions in the last three months.

Medium upwards trend

Slight downward trend

In all of the above, price changes of less that 0.05% annualized inflation are considered insignificant.

■ No signal

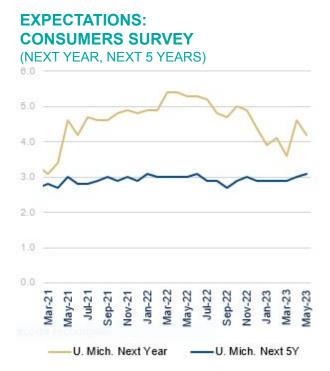
3 consecutive months falling

3 consecutive months rising

■ Noise

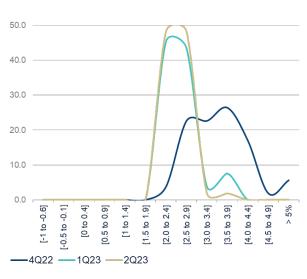
<sup>%</sup> of items\* with prices signaling; \* \*items within the CPI basket (2 digits) and where. Source: BBVA Research, Haver Analytics.

# US long-term inflation expectations by consumers rise above to 3%, more than those of analysts (2-2.9%); while markets' expectations hover near 2.5%





(LONG-TERM\*, %)



#### EXPECTATIONS: MARKET

(5Y5Y FORWARD, 5Y SWAP)



 $<sup>^{\</sup>star}\!/$  This refers to an average of 5 and 10-year ahead expected rate of inflation

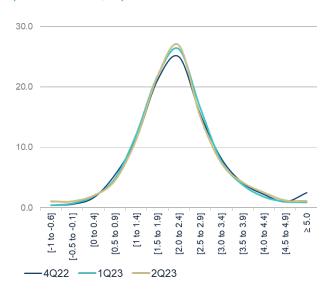
# EZ consumer inflation expectations returned to around 4%; analysts' expectations remain steady (2-2.5%), slightly below those of the market

### **EXPECTATIONS:**CONSUMERS SURVEY

(NEXT YEAR, 3Y AHEAD)

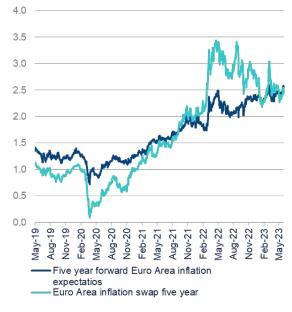


### EXPECTATIONS: PROFESSIONAL FORECASTERS (LONG-TERM\*, %)



#### EXPECTATIONS MARKET

(5Y5Y FORWARD, 5Y SWAP)



<sup>\*/</sup> Long-Term CPI Inflation refers to 2027 expected headline inflation

### Our supply bottlenecks indicator reflects some slack in US manufacturing. Meanwhile, in the Euro Area supply disruptions are disappearing

#### US SUPPLY BOTTLENECKS INDICATOR



#### **EZ: SUPPLY BOTTLENECKS INDICATOR**

(INDEX; LAST AVAILABLE DATA: APRIL 2023)



Principal Component Analysis (PCA) has been the methodology followed in the construction of the supply bottlenecks indicator for United States and the Euro Area, whereby the first principal component has been considered as the corresponding supply bottlenecks indicator.

Variables included in the indicator: EA19: factors limiting production - Equipment (Percent Balance SA); EA19: Material shortage construction (Percent Balance SA); IFO: Germany: Material shortage in construction (Percent Balance SA); Ea 19: Retail Inventories (Percent Balance SA); Harpex Shipping Index; Vessel Size in TEU - Rates in US\$. Source: BBVA Research, Haver Analytics.

#### **Disclaimer**

The present document does not constitute an "Investment Recommendation", as defined in Regulation (EU) No 596/2014 of the European Parliament and of the Council of 16 April 2014 on market abuse ("MAR"). In particular, this document does not constitute "Investment Research" nor "Marketing Material", for the purposes of article 36 of the Regulation (EU) 2017/565 of 25 April 2016 supplementing Directive 2014/65/EU of the European Parliament and of the Council as regards organisational requirements and operating conditions for investment firms and defined terms for the purposes of that Directive (MIFID II).

Readers should be aware that under no circumstances should they base their investment decisions on the information contained in this document. Those persons or entities offering investment products to these potential investors are legally required to provide the information needed for them to take an appropriate investment decision.

This document has been prepared by BBVA Research Department. It is provided for information purposes only and expresses data or opinions regarding the date of issue of the report, prepared by BBVA or obtained from or based on sources we consider to be reliable, and have not been independently verified by BBVA. Therefore, BBVA offers no warranty, either express or implicit, regarding its accuracy, integrity or correctness.

This document and its contents are subject to changes without prior notice depending on variables such as the economic context or market fluctuations. BBVA is not responsible for updating these contents or for giving notice of such changes.

BBVA accepts no liability for any loss, direct or indirect, that may result from the use of this document or its contents.

This document and its contents do not constitute an offer, invitation or solicitation to purchase, divest or enter into any interest in financial assets or instruments. Neither shall this document nor its contents form the basis of any contract, commitment or decision of any kind.

The content of this document is protected by intellectual property laws. Reproduction, transformation, distribution, public communication, making available, extraction, reuse, forwarding or use of any nature by any means or process is prohibited, except in cases where it is legally permitted or expressly authorised by BBVA on its website <a href="https://www.bbvaresearch.com">www.bbvaresearch.com</a>.