

# Global | Inflation and Bottlenecks Chartbook

**Updated September 2023** 

#### **Summary**

- Headline inflation has been trending down but recently this trend has halted or slowed due to lower than expected falls in energy prices. Second round effect continued to boost inflation in Argentina and Turkey. Core inflation remains sticky. Sequentially (monthly rates), in the US, Mexico and Peru registered more aligned rates with their historical average.
- US inflation climbed to 3.7% in August, mainly underpinned by a jump in energy prices. Core inflation continued its downward trend, reaching 4.3%YoY, helped by the moderation in core goods and owners' equivalent rent. It is expected that rent prices will accelerate the decline in the second half of the year, dragging down inflation.
- Euro Area headline inflation dropped to 5.2% YoY in August, with energy prices falling less than expected. Core inflation also declined to 5.3%YoY. Non-energy industrial goods inflation moderated further; while services inflation started to ease, although still remaining at high levels.
- Synchronicity and persistence indicators improved further in the Euro Area and seem to have normalized in the US as a higher number of items show a more moderate rate of inflation. However, there is still a number of items with high weight in the CPI basket that have inflation rates above pre-pandemic levels.
- Consumer inflation expectations moderated in the US, suggesting that the downward trend of inflation is filtering to consumers. However, the decline halted in the Euro Area, where the rise in oil prices is boosting expectations.
- Our supply bottlenecks indicator shows no sign of supply disruptions neither in US nor in the Euro Area. In the latter, the shortage of materials and equipment moderated.

### **Summary indicators**

	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23		
	9.1	8.5	8.3	8.2	7.7	7.1	6.5	6.4	6.0	5.0	4.9	4.0	3.0	3.2	3.7		IPC Headline (%YoY, SA)
	5.9	5.9	6.3	6.6	6.3	6.0	5.7	5.6	5.5	5.6	5.5	5.3	4.8	4.7	4.3		IPC Core (%YoY, SA)
	1.2	0.0	0.2	0.4	0.5	0.2	0.1	0.5	0.4	0.1	0.4	0.1	0.2	0.2	0.6	US	IPC Headline (%MoM, SA
	0.6	0.3	0.6	0.6	0.3	0.3	0.4	0.4	0.5	0.4	0.4	0.4	0.2	0.2	0.3	03	IPC Core (%MoM, SA)
	3.6	3.4	3.0	2.5	3.1	2.8	2.5	2.3	2.8	2.6	2.4	2.3	2.4	2.5	2.4		Inf exp (2Y inf. Swap)
Inflation	2.7	2.6	2.5	2.5	2.7	2.6	2.6	2.5	2.6	2.6	2.5	2.5	2.6	2.6	2.6		Inf exp (5Y5Y inf. Swap)
mation	8.6	8.9	9.1	9.9	10.6	10.1	9.2	8.6	8.5	6.9	7.0	6.1	5.5	5.3	5.3		IPC Headline (%YoY, SA)
	3.7	4.0	4.3	4.7	5.0	5.0	5.2	5.3	5.6	5.8	5.7	5.3	5.3	5.3	5.3		IPC Core (%YoY, SA)
	0.7	0.7	0.7	1.0	1.1	0.3	0.1	0.4	0.7	-0.1	0.5	0.0	0.2	0.5	0.6	EZ	IPC Headline (%MoM, SA
	0.3	0.5	0.5	0.6	0.5	0.4	0.4	0.4	0.7	0.5	0.4	0.2	0.5	0.5			IPC Core (%MoM, SA)
	4.1	4.6	4.9	3.5	3.9	3.5	3.4	2.3	2.8	3.0	2.8	2.5	2.5	2.7	2.7		Inf exp (2Y inf. Swap)
	2.2	2.1	2.0	2.2	2.3	2.4	2.4	2.3	2.5	2.3	2.5	2.5	2.5	2.6	2.5		Inf exp (5Y5Y inf. Swap)
	54.9	48.6	50.4	47.3	48.2	46.8	45.1	42.5	47.0	44.3	45.7	42.6	45.6	47.3	46.8		ISM New Orders
	58.7	51.3	53.0	50.9	45.3	40.0	41.4	43.4	45.1	43.9	43.1	37.5	38.7	42.8	44.1		Backlog of Orders
	54.4	53.3	51.1	51.0	51.9	50.9	48.6	48.0	47.3	47.8	48.9	51.1	46.7	48.3	50.0	US manuf.	Production Index
	57.3	55.2	55.1	52.4	46.8	47.2	45.1	45.6	45.2	44.8	44.6	43.5	45.7	46.1	48.6		Suppliers' delivery times
	35.2	39.5	38.9	41.6	41.6	48.7	48.2	47.4	46.9	48.9	51.3	51.4	46.2	48.7	48.7		Customer Inventories
Bottlenecks	13.3	4.4	-2.7	-3.5	-4.9	-11.1	-11.9	-8.7	-9.1	-9.6	-14	-21.9	-26.2	-30.2	-37.6	EZ	Order books
	7.8	2.9	0.1	1.3	0.6	-3.7	0.7	-0.1	4.1	2.4	3.2	-6.5	-3.8	-4.5	-8.2	manuf.	Production trend
	28.2	27.2	26.5	26.4	24.9	23.3	21.8	21.7	19.2	16.4	12.9	10.9	10.1	9.9	9.1	EZ const.	Equip shortage
	54.8	49.3	45.6	44.2	44.3	42.7	44.1	46.4	44.5	44.8	42.2	43.5	44.1	43.8	44.2	Taiwan	Suppliers' delivery times
	619	580	587	568	558	560	558	557	553	546	549	543	549	559	554	Input costs	CRB Spot Comdty. Price
	4401	4467	4449	4163	1905	1405	1372	1229	1100	1059	1108	1217	1238	1227	1227	input costs	Container freight

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

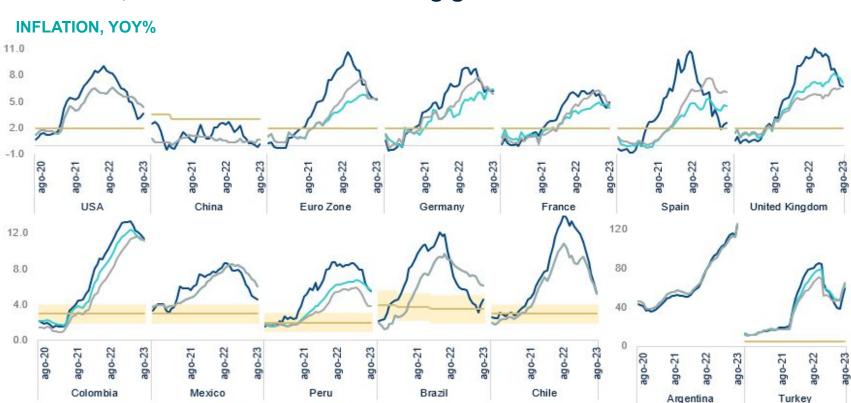
### Headline inflation continues to moderate, but with some unevenness due to energy and foods prices; core inflation remains sticky

		atio	11 10	Y, N	ISA																						
			2021		Likelin						20	22							20	23							
	Α	S	0	N	D	J	F	M	Α	М	J	J	Α	S	0	N	D	J	F	M	Α	M	J	J	Α		
US	5.3	5.4	6.2	6.8	7.0	7.5	7.9	8.5	8.3	8.6	9.1	8.5	8.3	8.2	7.7	7.1	6.5	6.4	6.0	5.0	4.9	4.0	3.0	3.2	3.7	US	
China	0.6	0.4	1.4	2.4	1.4	0.8	0.8	1.3	2.0	2.0	2.4	2.6	2.4	2.7	2.1	1.5	1.8	2.2	1.1	0.8	0.3	0.3	0.1	-0.2	0.2	China	
urozone	3.0	3.4	4.1	4.9	5.0	5.1	5.9	7.4	7.4	8.1	8.6	8.9	9.1	9.9	10.6	10.1	9.2	8.6	8.5	6.9	7.0	6.1	5.5	5.3	5.2	Eurozone	
Germany	3.8	4.1	4.4	4.8	4.9	4.2	4.3	5.9	6.3	7.0	6.7	6.7	7.0	8.6	8.8	8.8	8.1	8.7	8.7	7.4	7.2	6.1	6.4	6.2	6.1	Germany	
rance	1.9	2.2	2.6	2.8	2.8	2.9	3.6	4.5	4.8	5.2	5.8	6.1	5.9	5.6	6.2	6.2	5.9	6.0	6.3	5.7	5.9	5.1	4.5	4.3	4.9	France	
pain	3.3	4.0	5.4	5.5	6.5	6.1	7.6	9.8	8.3	8.7	10.2	10.8	10.5	8.9	7.3	6.8	5.7	5.9	6.0	3.3	4.1	3.2	1.9	2.3	2.6	Spain	
JK	3.2	3.1	4.2	5.1	5.4	5.5	6.2	7.0	9.0	9.1	9.4	10.1	9.9	10.1	11.1	10.7	10.5	10.1	10.4	10.1	8.7	8.7	7.9	6.8	6.7	UK	
urkey	19.3	19.6	19.9	21.3	36.1	48.7	54.4	61.1	70.0	73.5	78.6	79.6	80.2	83.5	85.5	84.4	64.3	57.7	55.2	50.5	43.7	39.6	38.2	47.8	58.9	Turkey	
Argentina	51.4	52.5	52.1	51.2	50.9	50.7	52.3	55.1	58.0	60.7	64.0	71.0	78.5	83.0	88.0	92.4	94.8	98.8	102.5	104.3	108.8	114.2	115.6	113.4	124.4	Argentina	
Colombia	4.4	4.5	4.6	5.3	5.6	6.9	8.0	8.5	9.2	9.1	9.7	10.2	10.8	11.4	12.2	12.5	13.1	13.3	13.3	13.3	12.8	12.4	12.1	11.8	11.4	Colombia	
Mexico	5.6	6.0	6.2	7.4	7.4	7.1	7.3	7.5	7.7	7.7	8.0	8.2	8.7	8.7	8.4	7.8	7.8	7.9	7.6	6.8	6.3	5.8	5.1	4.8	4.6	Mexico	
Peru	5.0	5.2	5.8	5.7	6.4	5.7	6.1	6.8	8.0	8.1	8.8	8.7	8.4	8.5	8.3	8.4	8.5	8.7	8.6	8.4	8.0	7.9	6.5	5.9	5.6	Peru	
Brazil	9.7	10.2	10.7	10.7	10.1	10.4	10.5	11.3	12.1	11.7	11.9	10.1	8.7	7.2	6.5	5.9	5.8	5.8	5.6	4.7	4.2	3.9	3.2	4.0	4.6	Brazil	
Chile	4.8	5.3	6.0	6.7	7.2	7.7	7.8	94	10.5	11.5	12.5	13.1	44.4	427	40.0	400	40.0	400	44.0	11.1	00	8.7		6.5	5.3	Chile	
					1.6	4.1	7.0	3.4	10.5	-11.0	12.0	10.1	14.1	13.7	12.8	13.3	12.8	12.3	11.9	11.1	9.9	0.7	7.6	0.5	0.0	Chile	
Core Inf	latio	n Yo			1.6		7.0	5.4	10.5	11.0	12.0	10.1	14.1	13.7	12.8	13.3	12.8	12.3	11.9	11.1	9.9	0.7	7.0	0.5	0.0	Chile	
	latio	n Yo			5.5	6.0	6.4	6.5	6.2	6.0	5.9	5.9	6.3	6.6	6.3	6.0	5.7	5.6	5.5	5.6	5.5	5.3	4.8	4.7	4.3	US	
JS			Y, N	NSA																							
JS China	4.0	4.0	Y, N	NSA 4.9	5.5	6.0	6.4	6.5	6.2	6.0	5.9	5.9	6.3	6.6	6.3	6.0	5.7	5.6	5.5	5.6	5.5	5.3	4.8	4.7	4.3	US	
JS China Eurozone	4.0	4.0	Y, N	4.9 1.0	5.5 1.0	6.0	6.4	6.5	6.2	6.0	5.9 0.8	5.9 0.6	6.3	6.6	6.3	6.0	5.7 0.5	5.6 0.8	5.5 0.4	5.6 0.5	5.5 0.5	5.3 0.5	4.8	4.7	4.3	US China	
JS China Eurozone Germany	4.0 1.1 1.6	4.0 1.1 1.9	4.6 1.1 2.1	4.9 1.0 2.6	5.5 1.0 2.6	6.0 1.0 2.3	6.4 1.0 2.7	6.5 0.9 2.9	6.2 0.7 3.4	6.0 0.6 3.7	5.9 0.8 3.7	5.9 0.6 4.0	6.3 0.6 4.3	6.6 0.4 4.7	6.3 0.4 5.0	6.0 0.4 5.0	5.7 0.5 5.2	5.6 0.8 5.3	5.5 0.4 5.6	5.6 0.5 5.8	5.5 0.5 5.7	5.3 0.5 5.3	4.8 0.3 5.3	4.7 0.7 5.3	4.3 0.7 5.3	US China Eurozone	
JS China Eurozone Germany France	4.0 1.1 1.6 2.0	4.0 1.1 1.9 2.6	4.6 1.1 2.1 2.8	4.9 1.0 2.6 4.1	5.5 1.0 2.6 3.9	6.0 1.0 2.3 3.0	6.4 1.0 2.7 3.1	6.5 0.9 2.9 3.3	6.2 0.7 3.4 3.8	6.0 0.6 3.7 4.1	5.9 0.8 3.7 3.2	5.9 0.6 4.0 3.4	6.3 0.6 4.3 3.6	6.6 0.4 4.7 4.7	6.3 0.4 5.0 5.2	6.0 0.4 5.0 5.1	5.7 0.5 5.2 5.5	5.6 0.8 5.3 5.1	5.5 0.4 5.6 5.5	5.6 0.5 5.8 6.1	5.5 0.5 5.7 5.9	5.3 0.5 5.3 5.3	4.8 0.3 5.3 6.3	4.7 0.7 5.3 6.3	4.3 0.7 5.3 6.4	US China Eurozone Germany	
Core Info JS China Eurozone Germany France Spain JK	4.0 1.1 1.6 2.0 1.4	4.0 1.1 1.9 2.6 1.7	4.6 1.1 2.1 2.8 1.9	4.9 1.0 2.6 4.1 2.0	5.5 1.0 2.6 3.9 2.0	6.0 1.0 2.3 3.0 1.6	6.4 1.0 2.7 3.1 2.4	6.5 0.9 2.9 3.3 2.5	6.2 0.7 3.4 3.8 3.0	6.0 0.6 3.7 4.1 3.2	5.9 0.8 3.7 3.2 3.1	5.9 0.6 4.0 3.4 3.8	6.3 0.6 4.3 3.6 4.0	6.6 0.4 4.7 4.7 3.6	6.3 0.4 5.0 5.2	6.0 0.4 5.0 5.1 4.0	5.7 0.5 5.2 5.5 4.1	5.6 0.8 5.3 5.1 4.2	5.5 0.4 5.6 5.5 4.5	5.6 0.5 5.8 6.1 4.7	5.5 0.5 5.7 5.9 4.9	5.3 0.5 5.3 5.3 4.6	4.8 0.3 5.3 6.3 4.7	4.7 0.7 5.3 6.3 4.5	4.3 0.7 5.3 6.4 4.3	US China Eurozone Germany France	
JS China Eurozone Germany France Spain JK	4.0 1.1 1.6 2.0 1.4 0.6	4.0 1.1 1.9 2.6 1.7 0.9	4.6 1.1 2.1 2.8 1.9	4.9 1.0 2.6 4.1 2.0 1.6	5.5 1.0 2.6 3.9 2.0 1.9	6.0 1.0 2.3 3.0 1.6 2.2	6.4 1.0 2.7 3.1 2.4 2.6	6.5 0.9 2.9 3.3 2.5 3.0	6.2 0.7 3.4 3.8 3.0 3.4	6.0 0.6 3.7 4.1 3.2	5.9 0.8 3.7 3.2 3.1 3.9	5.9 0.6 4.0 3.4 3.8	6.3 0.6 4.3 3.6 4.0 4.8	6.6 0.4 4.7 4.7 3.6	6.3 0.4 5.0 5.2	6.0 0.4 5.0 5.1 4.0 4.0	5.7 0.5 5.2 5.5 4.1	5.6 0.8 5.3 5.1 4.2 5.3	5.5 0.4 5.6 5.5 4.5 5.3	5.6 0.5 5.8 6.1 4.7 4.8	5.5 0.5 5.7 5.9 4.9 4.3	5.3 0.5 5.3 5.3 4.6 4.0	4.8 0.3 5.3 6.3 4.7 3.9	4.7 0.7 5.3 6.3 4.5 4.5	4.3 0.7 5.3 6.4 4.3 4.5	US China Eurozone Germany France Spain	
JS China Eurozone Germany France Spain JK Furkey	4.0 1.1 1.6 2.0 1.4 0.6 3.0	4.0 1.1 1.9 2.6 1.7 0.9 2.8	4.6 1.1 2.1 2.8 1.9 1.4 3.2	4.9 1.0 2.6 4.1 2.0 1.6 3.9	5.5 1.0 2.6 3.9 2.0 1.9 4.1	6.0 1.0 2.3 3.0 1.6 2.2 4.3	6.4 1.0 2.7 3.1 2.4 2.6	6.5 0.9 2.9 3.3 2.5 3.0	6.2 0.7 3.4 3.8 3.0 3.4 6.1	6.0 0.6 3.7 4.1 3.2	5.9 0.8 3.7 3.2 3.1 3.9	5.9 0.6 4.0 3.4 3.8	6.3 0.6 4.3 3.6 4.0 4.8	6.6 0.4 4.7 4.7 3.6	6.3 0.4 5.0 5.2	6.0 0.4 5.0 5.1 4.0 4.0	5.7 0.5 5.2 5.5 4.1 4.3 7.1	5.6 0.8 5.3 5.1 4.2 5.3 6.7	5.5 0.4 5.6 5.5 4.5 5.3 7.2	5.6 0.5 5.8 6.1 4.7 4.8	5.5 0.5 5.7 5.9 4.9 4.3	5.3 0.5 5.3 5.3 4.6 4.0	4.8 0.3 5.3 6.3 4.7 3.9 7.9 47.0	4.7 0.7 5.3 6.3 4.5 4.5 7.7	4.3 0.7 5.3 6.4 4.3 4.5 7.1 63.4	US China Eurozone Germany France Spain UK	
JS China Eurozone Germany France Spain JK Furkey Argentina	4.0 1.1 1.6 2.0 1.4 0.6 3.0 17.1	4.0 1.1 1.9 2.6 1.7 0.9 2.8 17.5	4.6 1.1 2.1 2.8 1.9 1.4 3.2 17.9	4.9 1.0 2.6 4.1 2.0 1.6 3.9 19.3	5.5 1.0 2.6 3.9 2.0 1.9 4.1 34.5	6.0 1.0 2.3 3.0 1.6 2.2 4.3 43.3	6.4 1.0 2.7 3.1 2.4 2.6 5.1 47.4	6.5 0.9 2.9 3.3 2.5 3.0 5.7 51.8	6.2 0.7 3.4 3.8 3.0 3.4 6.1 58.3	6.0 0.6 3.7 4.1 3.2 3.4 6.1 63.1	5.9 0.8 3.7 3.2 3.1 3.9 6.1 66.4	5.9 0.6 4.0 3.4 3.8 4.6 6.6 71.0	6.3 0.6 4.3 3.6 4.0 4.8 6.7 74.9	6.6 0.4 4.7 4.7 3.6 4.8 7.1 76.5	6.3 0.4 5.0 5.2 4.0 4.4 7.2 78.6	6.0 0.4 5.0 5.1 4.0 4.0 7.0 78.4	5.7 0.5 5.2 5.5 4.1 4.3 7.1 60.1	5.6 0.8 5.3 5.1 4.2 5.3 6.7 58.4	5.5 0.4 5.6 5.5 4.5 5.3 7.2 56.6	5.6 0.5 5.8 6.1 4.7 4.8 7.2 53.4	5.5 0.5 5.7 5.9 4.9 4.3	5.3 0.5 5.3 5.3 4.6 4.0	4.8 0.3 5.3 6.3 4.7 3.9 7.9 47.0	4.7 0.7 5.3 6.3 4.5 4.5 7.7 54.5	4.3 0.7 5.3 6.4 4.3 4.5 7.1 63.4	US China Eurozone Germany France Spain UK Turkey	
China curozone cermany france Spain UK curkey drgentina Colombia	4.0 1.1 1.6 2.0 1.4 0.6 3.0 17.1 55.5	4.0 1.1 1.9 2.6 1.7 0.9 2.8 17.5 57.0	4.6 1.1 2.1 2.8 1.9 1.4 3.2 17.9 56.6	4.9 1.0 2.6 4.1 2.0 1.6 3.9 19.3 55.5	5.5 1.0 2.6 3.9 2.0 1.9 4.1 34.5 54.9	6.0 1.0 2.3 3.0 1.6 2.2 4.3 43.3 54.0	6.4 1.0 2.7 3.1 2.4 2.6 5.1 47.4 54.5	6.5 0.9 2.9 3.3 2.5 3.0 5.7 51.8 57.3	6.2 0.7 3.4 3.8 3.0 3.4 6.1 58.3 60.5	6.0 0.6 3.7 4.1 3.2 3.4 6.1 63.1 63.2	5.9 0.8 3.7 3.2 3.1 3.9 6.1 66.4 65.5	5.9 0.6 4.0 3.4 3.8 4.6 6.6 71.0 72.2	6.3 0.6 4.3 3.6 4.0 4.8 6.7 74.9 78.4	6.6 0.4 4.7 4.7 3.6 4.8 7.1 76.5 82.3	6.3 0.4 5.0 5.2 4.0 4.4 7.2 78.6 86.4	6.0 0.4 5.0 5.1 4.0 4.0 7.0 78.4 89.1	5.7 0.5 5.2 5.5 4.1 4.3 7.1 60.1 90.6	5.6 0.8 5.3 5.1 4.2 5.3 6.7 58.4 94.4	5.5 0.4 5.6 5.5 4.5 5.3 7.2 56.6 100.4	5.6 0.5 5.8 6.1 4.7 4.8 7.2 53.4 102.0	5.5 0.5 5.7 5.9 4.9 4.3	5.3 0.5 5.3 5.3 4.6 4.0 8.1 47.8 110.3	4.8 0.3 5.3 6.3 4.7 3.9 7.9 47.0 113.1	4.7 0.7 5.3 6.3 4.5 4.5 7.7 54.5 111.5	4.3 0.7 5.3 6.4 4.3 4.5 7.1 63.4 125.3	US China Eurozone Germany France Spain UK Turkey Argentina	
IS china currozone cermany rance copain lik curkey urgentina colombia dexico	4.0 1.1 1.6 2.0 1.4 0.6 3.0 17.1 55.5 3.9	4.0 1.1 1.9 2.6 1.7 0.9 2.8 17.5 57.0 3.8	4.6 1.1 2.1 2.8 1.9 1.4 3.2 17.9 56.6 3.7	4.9 1.0 2.6 4.1 2.0 1.6 3.9 19.3 55.5 4.2	5.5 1.0 2.6 3.9 2.0 1.9 4.1 34.5 54.9 4.4	6.0 1.0 2.3 3.0 1.6 2.2 4.3 43.3 54.0 5.6	6.4 1.0 2.7 3.1 2.4 2.6 5.1 47.4 54.5 6.4	6.5 0.9 2.9 3.3 2.5 3.0 5.7 51.8 57.3 6.9	6.2 0.7 3.4 3.8 3.0 3.4 6.1 58.3 60.5 7.7	6.0 0.6 3.7 4.1 3.2 3.4 6.1 63.1 63.2 8.0	5.9 0.8 3.7 3.2 3.1 3.9 6.1 66.4 65.5 8.4	5.9 0.6 4.0 3.4 3.8 4.6 6.6 71.0 72.2	6.3 0.6 4.3 3.6 4.0 4.8 6.7 74.9 78.4 9.4	6.6 0.4 4.7 4.7 3.6 4.8 7.1 76.5 82.3 10.0	6.3 0.4 5.0 5.2 4.0 4.4 7.2 78.6 86.4 10.8	6.0 0.4 5.0 5.1 4.0 4.0 7.0 78.4 89.1 11.1	5.7 0.5 5.2 5.5 4.1 4.3 7.1 60.1 90.6 11.6	5.6 0.8 5.3 5.1 4.2 5.3 6.7 58.4 94.4 11.8	5.5 0.4 5.6 5.5 4.5 5.3 7.2 56.6 100.4 12.2	5.6 0.5 5.8 6.1 4.7 4.8 7.2 53.4 102.0 12.4	5.5 0.5 5.7 5.9 4.9 4.3 7.9 48.7 105.2 12.2	5.3 5.3 5.3 4.6 4.0 8.1 47.8 110.3 11.9	4.8 0.3 5.3 6.3 4.7 3.9 7.9 47.0 113.1 11.6	4.7 0.7 5.3 6.3 4.5 4.5 7.7 54.5 111.5	4.3 0.7 5.3 6.4 4.3 4.5 7.1 63.4 125.3 10.8	US China Eurozone Germany France Spain UK Turkey Argentina Colombia	
JS China Eurozone Germany France Spain	4.0 1.1 1.6 2.0 1.4 0.6 3.0 17.1 55.5 3.9 4.8	4.0 1.1 1.9 2.6 1.7 0.9 2.8 17.5 57.0 3.8 4.9	4.6 1.1 2.1 2.8 1.9 1.4 3.2 17.9 56.6 3.7 5.2	4.9 1.0 2.6 4.1 2.0 1.6 3.9 19.3 55.5 4.2 5.7	5.5 1.0 2.6 3.9 2.0 1.9 4.1 34.5 54.9 4.4 5.9	6.0 1.0 2.3 3.0 1.6 2.2 4.3 43.3 54.0 5.6 6.2	6.4 1.0 2.7 3.1 2.4 2.6 5.1 47.4 54.5 6.4 6.6	6.5 0.9 2.9 3.3 2.5 3.0 5.7 51.8 57.3 6.9 6.8	6.2 0.7 3.4 3.8 3.0 3.4 6.1 58.3 60.5 7.7 7.2	6.0 0.6 3.7 4.1 3.2 3.4 6.1 63.1 63.2 8.0 7.3	5.9 0.8 3.7 3.2 3.1 3.9 6.1 66.4 65.5 8.4 7.5	5.9 0.6 4.0 3.4 3.8 4.6 6.6 71.0 72.2 8.8 7.7	6.3 0.6 4.3 3.6 4.0 4.8 6.7 74.9 78.4 9.4 8.1	6.6 0.4 4.7 4.7 3.6 4.8 7.1 76.5 82.3 10.0 8.3	6.3 0.4 5.0 5.2 4.0 4.4 7.2 78.6 86.4 10.8 8.4	6.0 0.4 5.0 5.1 4.0 4.0 7.0 78.4 89.1 11.1 8.5	5.7 0.5 5.2 5.5 4.1 4.3 7.1 60.1 90.6 11.6 8.3	5.6 0.8 5.3 5.1 4.2 5.3 6.7 58.4 94.4 11.8 8.5	5.5 0.4 5.6 5.5 4.5 5.3 7.2 56.6 100.4 12.2 8.3	5.6 0.5 5.8 6.1 4.7 4.8 7.2 53.4 102.0 12.4 8.1	5.5 0.5 5.7 5.9 4.9 4.3 7.9 48.7 105.2 12.2 7.7	5.3 0.5 5.3 5.3 4.6 4.0 8.1 47.8 110.3 11.9 7.4	4.8 0.3 5.3 6.3 4.7 3.9 7.9 47.0 113.1 11.6 6.9	4.7 0.7 5.3 6.3 4.5 4.5 7.7 54.5 111.5 11.3 6.6	4.3 0.7 5.3 6.4 4.3 4.5 7.1 63.4 125.3 10.8 6.1	US China Eurozone Germany France Spain UK Turkey Argentina Colombia Mexico	Period considered: 2015-2019
Shina curozone Germany rance Spain JK urkey urkey urgentina Colombia dexico	4.0 1.1 1.6 2.0 1.4 0.6 3.0 17.1 55.5 3.9 4.8 2.6	4.0 1.1 1.9 2.6 1.7 0.9 2.8 17.5 57.0 3.8 4.9 2.9	4.6 1.1 2.1 2.8 1.9 1.4 3.2 17.9 56.6 3.7 5.2 3.2	4.9 1.0 2.6 4.1 2.0 1.6 3.9 19.3 55.5 4.2 5.7 3.4	5.5 1.0 2.6 3.9 2.0 1.9 4.1 34.5 54.9 4.4 5.9 3.8	6.0 1.0 2.3 3.0 1.6 2.2 4.3 43.3 54.0 5.6 6.2 3.9	6.4 1.0 2.7 3.1 2.4 2.6 5.1 47.4 54.5 6.4 6.6 4.2	6.5 0.9 2.9 3.3 2.5 3.0 5.7 51.8 57.3 6.9 6.8 4.6	6.2 0.7 3.4 3.8 3.0 3.4 6.1 58.3 60.5 7.7 7.2 5.0	6.0 0.6 3.7 4.1 3.2 3.4 6.1 63.1 63.2 8.0 7.3 5.5	5.9 0.8 3.7 3.2 3.1 3.9 6.1 66.4 65.5 8.4 7.5 5.8	5.9 0.6 4.0 3.4 3.8 4.6 6.6 71.0 72.2 8.8 7.7 6.2	6.3 0.6 4.3 3.6 4.0 4.8 6.7 74.9 78.4 9.4 8.1 6.3	6.6 0.4 4.7 4.7 3.6 4.8 7.1 76.5 82.3 10.0 8.3 6.3	6.3 0.4 5.0 5.2 4.0 4.4 7.2 78.6 86.4 10.8 8.4 6.4	6.0 0.4 5.0 5.1 4.0 4.0 7.0 78.4 89.1 11.1 8.5 6.5	5.7 0.5 5.2 5.5 4.1 4.3 7.1 60.1 90.6 11.6 8.3 6.5	5.6 0.8 5.3 5.1 4.2 5.3 6.7 58.4 94.4 11.8 8.5 6.6	5.5 0.4 5.6 5.5 4.5 5.3 7.2 56.6 100.4 12.2 8.3 6.6	5.6 0.5 5.8 6.1 4.7 4.8 7.2 53.4 102.0 12.4 8.1 6.8	5.5 0.5 5.7 5.9 4.9 4.3 7.9 48.7 105.2 12.2 7.7 6.7	5.3 0.5 5.3 5.3 4.6 4.0 8.1 47.8 110.3 11.9 7.4 6.5	4.8 0.3 5.3 6.3 4.7 3.9 7.9 47.0 113.1 11.6 6.9 6.2	4.7 0.7 5.3 6.3 4.5 4.5 7.7 54.5 111.5 11.3 6.6 5.9	4.3 0.7 5.3 6.4 4.3 4.5 7.1 63.4 125.3 10.8 6.1 5.6	US China Eurozone Germany France Spain UK Turkey Argentina Colombia Mexico Peru	Period considered: 2015-2019 StDev below: + than 3 2 to 3 1 to 2 -1 to +

1 to 2 2 to 3 + than 3

Source: BBVA Research, "L" refers to local definition. Haver Analytics.

### Moderation in inflation is still far from central banks' objectives in most countries, with core inflation showing greater resistance to fall



-Headline NSA

Core NSAH

-Target

-Core NSAL

# In August, headline inflation picked up on the back of a rebound in energy prices: core inflation rose close to historical values (excl ARG, TUR)

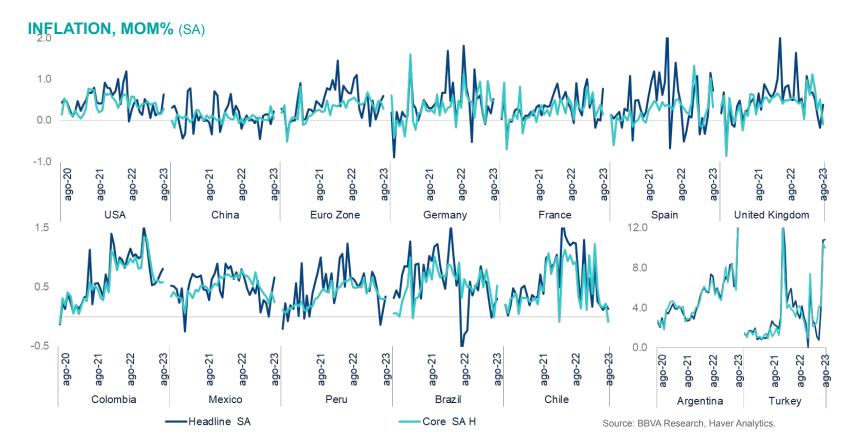
			2021		6.00	2022												l'anne	20							
	Α	S	0	N	D	J	F	M	Α	M	J	J	A	S	0	N	D	J	F	M	A	M	J	J	Α	
US	0.4	0.4	0.9	0.8	0.8	0.6	0.7	1.0	0.4	0.9	1.2	0.0	0.2	0.4	0.5	0.2	0.1	0.5	0.4	0.1	0.4	0.1	0.2	0.2	0.6	US
China	0.0	-0.3	0.7	0.6	-0.3	0.0	0.2	0.4	0.6	0.1	0.4	0.2	-0.2	0.0	0.1	0.0	0.0	-0.1	0.1	-0.5	0.1	0.1	0.1	-0.1	0.2	China
urozone	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	0.2	0.5	0.6	Eurozor
Germany	0.3	0.3	0.4	0.5	0.2	0.7	0.7	1.7	0.5	0.9	0.0	0.5	0.5	1.8	0.8	0.4	-0.5	1.2	0.5	0.6	0.2	-0.1	0.3	0.2	0.5	German
rance	0.4	0.1	0.4	0.3	0.3	0.5	0.7	0.9	0.5	0.5	0.7	0.4	0.3	-0.1	0.9	0.3	0.1	0.8	1.0	0.3	0.6	-0.2	0.0	0.0	0.8	France
pain	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	0.1	1.1	0.7	Spain
JK	0.7	0.3	0.9	0.8	0.6	0.6	0.7	1.0	2.0	0.5	0.8	0.9	0.5	0.5	1.6	0.4	0.5	0.1	1.1	0.7	0.7	0.5	0.1	-0.2	0.4	UK
Turkey	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	3.9	10.7	10.8	Turkey
rgentina	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	6.1	6.3	12.6	Argenti
colombia	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	0.6	0.7	0.8	Colomb
lexico	0.3	0.6	0.7	0.9	0.4	0.3	0.9	0.8	0.8	0.6	0.7	0.6	8.0	0.6	0.5	0.4	0.5	0.4	0.6	0.1	0.3	0.2	0.0	0.4	0.7	Mexico
eru	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	8.0	0.7	0.4	-0.1	0.1	0.3	Peru
Brazil	0.9	1.2	1.2	0.9	0.6	0.5	1.0	1.5	1.0	0.5	0.7	-0.6	-0.3	-0.2	0.6	0.4	0.5	0.4	0.8	0.6	0.6	0.3	0.0	0.2	0.3	Brazil
Chile	0.4	1.0	1.0	0.8	0.9	1.0	0.5	1.7	1.4	1.3	1.2	1.3	1.2	0.7	0.2	1.3	0.4	0.6	0.2	0.9	0.3	0.2	0.1	0.2	0.1	Chile
Core In	flatio	n M	οM,	SA																						
JS	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	0.2	0.2	0.3	US

US	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	0.2	0.2	0.3	US	
China	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	0.0	0.3	0.0	China	
Eurozone	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	0.5	0.5	0.3	Eurozor	1e
Germany	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	1.0	0.5	0.5	German	y
France	0.2	0.4	0.1	0.3	0.1	0.4	0.5	0.1	0.5	0.4	0.2	0.5	0.4	0.0	0.5	0.3	0.2	0.3	0.8	0.4	0.7	0.1	0.2	0.4	0.1	France	
Spain	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	0.3	1.0	0.3	Spain	
UK	0.4	0.3	0.5	0.6	0.4	0.5	0.6	0.7	0.6	0.4	0.5	0.5	0.5	0.6	0.5	0.4	0.5	0.0	1.0	0.6	1.1	0.8	0.3	0.5	-0.1	UK	
Turkey	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	4.2	10.4	10.0	Turkey	
Argentina	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	7.1	5.8	13.6	Argentin	na
Colombia	0.5	0.3	0.3	0.6	0.4	1.1	1.0	0.8	0.9	0.9	0.8	0.9	1.0	0.9	1.0	0.8	0.8	1.3	1.3	1.0	0.8	0.6	0.6	0.6	0.6	Colombi	a
Mexico	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	0.2	0.4	0.2	Mexico	
Peru	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	0.3	0.3	0.3	Peru	
Brazil	0.6	1.0	0.8	0.7	0.7	0.7	0.9	0.9	0.7	0.6	0.9	0.3	0.6	0.5	0.5	0.4	0.5	0.6	0.8	0.5	0.8	0.5	0.3	0.0	0.5	Brazil	
Chile	0.4	0.9	1.1	0.7	0.9	1.0	-0.1	1.0	1.1	0.9	1.0	0.9	0.9	0.3	0.1	0.9	0.1	1.0	0.4	1.2	0.5	0.2	0.2	0.2	-0.1	Chile	Per StD

Period considered: 2015-2019 StDev below:

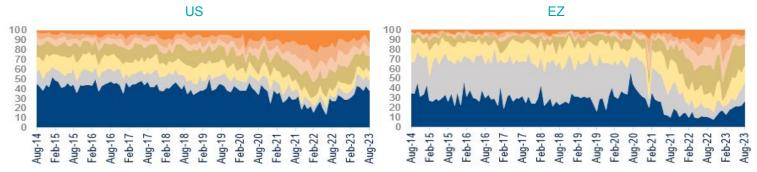
StDev below: StDev above: +than 3 2 to 3 1 to 2 -1 to +1 1 to 2 2 to 3 + than 3

### In month on month terms, headline inflation picked up with some exceptions (SPA, CHILE), while the rate of pick up in core inflation moderated

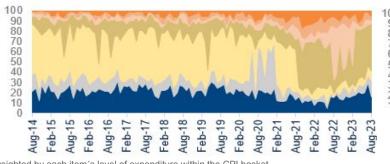


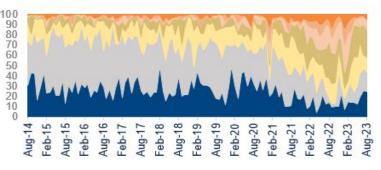
### Synchronicity indicators have improved in the EZ, with the number of items with low inflation rates increasing

#### PERCENTAGE OF ITEMS WITHIN DIFFERENT INFLATIONARY BRACKETS



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





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

(20 and more)

(12 to 20)

(8 to 12)

(4 to 8)

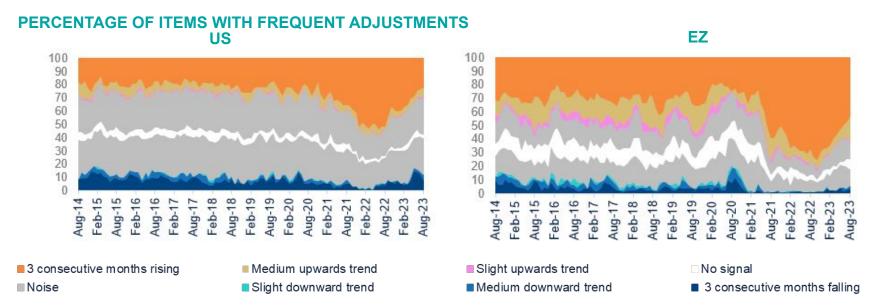
= (2 to 4)

 $\blacksquare$  (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 number of items with frequent price revisions moderated further in the US and the EZ



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.

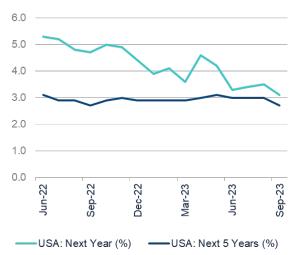
In all of the above, price changes of less that 0.05% annualized inflation are considered insignificant.

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

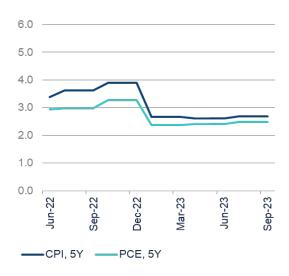
# In the US, markets and analysts' expectations are close to 2.5% while consumers' short-term inflation expectations fell to a two-year low (3.1%)

# EXPECTATIONS: CONSUMERS SURVEY

(NEXT YEAR, NEXT 5 YEARS)

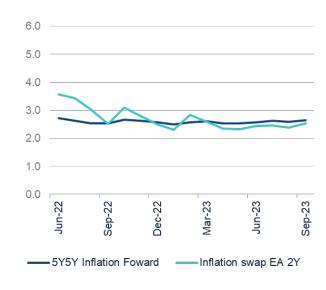


# EXPECTATIONS: PROFESSIONAL FORECASTERS (LONG-TERM\*, %)



## EXPECTATIONS: MARKET

(5Y5Y FORWARD, 5Y SWAP)



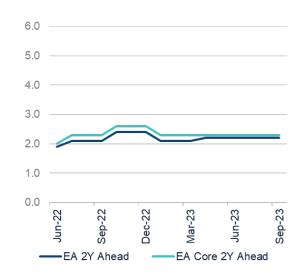
<sup>\*/</sup> This refers to an average of 5 and 10-year ahead expected rate of inflation

# In the EZ, analysts' and market expectations remain stable (2-2.25%) while consumer expectations for 2024 are falling as per the latest available July

#### data EXPECTATIONS: CONSUMERS SURVEY (NEXT YEAR, 3Y AHEAD)



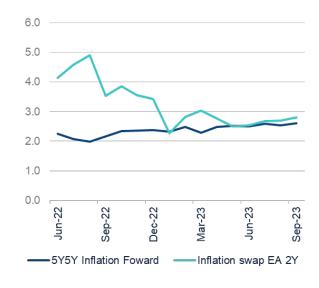
# EXPECTATIONS: PROFESSIONAL FORECASTERS (LONG-TERM\*, %)



Source: ECB

# EXPECTATIONS MARKET

(5Y5Y FORWARD, 5Y SWAP)

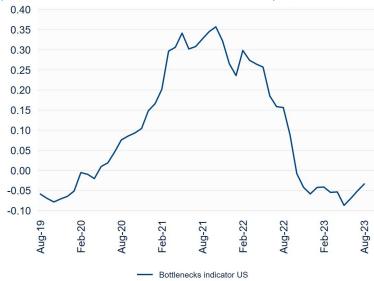


<sup>\*/</sup> Long-Term CPI Inflation refers to 2027 expected headline inflation

#### Our supply bottlenecks indicator reflects no supply disruptions in the US or the EA. Recent uptick in the US led by increases in production to fill up stocks

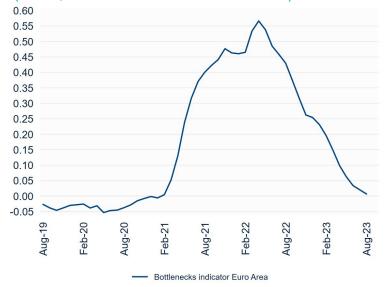
#### **US SUPPLY BOTTLENECKS INDICATOR**

(INDEX; LAST AVAILABLE DATA: APRIL 2023)



#### **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.

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