

The ECB Survey of Monetary Analysts

Aggregated Results



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Summary Report

This report summarises the aggregated results of the Survey of Monetary Analysts (SMA) of **December 2022**. The survey period was from 28 November to 1 December 2022 and 29 respondents participated.

For questions that received responses from fewer than six respondents no aggregate statistics are reported.

Throughout the document, the cross-sectional distribution is defined as the distribution of the modal answers, and the average probability distribution is defined as the average of the probabilities assigned by respondents to different ranges of the measure in question.

This report uses abbreviations for key monetary policy parameters. For additional specific terminology please refer to the ECB glossary.

The survey questionnaire and more information is available at: https://www.ecb.europa.eu/stats/ecb_surveys/sma/html/index.en.html

1 Key ECB Interest Rates, Market Rates and Market Conditions

1.1 Please indicate the percentage chance you attach to the next rate change being an increase or a decrease, the most likely timing of such a change and the size of the change you expect.

Percentage chance of next rate change being an increase

(percentages)				
Interest rate	25th percentile	Median	75th percentile	
DFR	99.8	100.0	100.0	
MRO	99.8	100.0	100.0	
MLF	99.8	100.0	100.0	

Note: Cross-sectional distribution.

Series key: SMA.DEC22.MEDIAN._Z._Z.U2.INCREASE.DFR_PR_DIRECTION,
SMA.DEC22.MEDIAN._Z._Z.U2.INCREASE.MRO_PR_DIRECTION,
SMA.DEC22.MEDIAN._Z._Z.U2.INCREASE.MLF_PR_DIRECTION,
SMA.DEC22.MEDIAN._Z._Z.U2.INCREASE.MLF_PR_DIRECTION. Replace "MEDIAN" with "P25" or "P75" to obtain the 25th and 75th percentile, respectively.

Number of responses:

DFR: 29. MLF: 29. MRO: 29.

Percentage chance of next rate change being a decrease

(percentages)				
Interest rate	25th percentile	Median	75th percentile	
DFR	0.0	0.0	0.3	
MRO	0.0	0.0	0.3	
MLF	0.0	0.0	0.3	

Note: Cross-sectional distribution

Note: Closs-sectional distribution:
Series key: SMA.DEC22.MEDIAN_Z, Z.U2.DECREASE.DFR_PR_DIRECTION,
SMA.DEC22.MEDIAN_Z, Z.U2.DECREASE.MRO_PR_DIRECTION,
SMA.DEC22.MEDIAN_Z, Z.U2.DECREASE.MLF_PR_DIRECTION, Replace "MEDIAN" with "P25" or "P75" to obtain the 25th and

75th percentile, respectively. Number of responses:

DFR: 29. MLF: 29.

MRO: 29

Expected timing of the next rate increase

(date)			
Interest rate	25th percentile	Median	75th percentile
DFR	Dec-22	Dec-22	Dec-22
MRO	Dec-22	Dec-22	Dec-22
MLF	Dec-22	Dec-22	Dec-22

Note: Cross-sectional distribution

Series key: SMA.DEC22.MEDIAN.GC._Z.U2._Z.DFR_CHANGE_DATE_INCREASE,

SMA.DEC22.MEDIAN.GC. Z.U2. Z.MRO_CHANGE_DATE_INCREASE, SMA.DEC22.MEDIAN.GC. Z.U2. Z.MLF_CHANGE_DATE_INCREASE. Replace "MEDIAN" with "P25" or "P75" to obtain the 25th

and 75th percentile, respectively

Number of responses:

MLF: 29. MRO: 29

Expected timing of the next rate decrease

(date)

Interest rate	25th percentile	Median	75th percentile
DFR	Mar-23	May-23	Mar-24
MRO	Mar-23	May-23	Mar-24
MLF	Mar-23	May-23	Mar-24

Note: Cross-sectional distribution.
Series key: SMA.DEC22.MEDIAN.GC._Z.U2._Z.DFR_CHANGE_DATE_DECREASE,
SMA.DEC22.MEDIAN.GC._Z.U2._Z.MRO_CHANGE_DATE_DECREASE,
SMA.DEC22.MEDIAN.GC._Z.U2._Z.MLF_CHANGE_DATE_DECREASE. Replace "MEDIAN" with "P25" or "P75" to obtain the 25th and 75th percentile, respectively.

Number of responses: DFR: 6.

MLF: 6. MRO: 6.

Expected size of the next rate increase

(basis points)

Interest rate	25th percentile	Median	75th percentile
DFR	50	50	50
MRO	50	50	50
MLF	50	50	50

Note: Cross-sectional distribution.

Series key: SMA.DEC22.MEDIAN._Z.BP.U2._Z.DFR_CHANGE_SIZE_INCREASE,
SMA.DEC22.MEDIAN._Z.BP.U2._Z.MRO_CHANGE_SIZE_INCREASE,
SMA.DEC22.MEDIAN._Z.BP.U2._Z.MLF_CHANGE_SIZE_INCREASE. Replace "MEDIAN" with "P25" or "P75" to obtain the 25th and

75th percentile, respectively. Number of responses:

DFR: 29. MLF: 29.

MRO: 29

Expected size of the next rate decrease

(basis points)

Interest rate	25th percentile	Median	75th percentile
DFR	-25	-25	-25
MRO	-25	-25	-25
MLF	-25	-25	-25

Note: Cross-sectional distribution.

Series key: SMA.DEC22.MEDIAN. Z.BP.U2. Z.DFR_CHANGE_SIZE_DECREASE,
SMA.DEC22.MEDIAN._Z.BP.U2._Z.MRO_CHANGE_SIZE_DECREASE,
SMA.DEC22.MEDIAN._Z.BP.U2._Z.MLF_CHANGE_SIZE_DECREASE,
SMA.DEC22.MEDIAN._Z.BP.U2._Z.MLF_CHANGE_SIZE_DECREASE. Replace "MEDIAN" with "P25" or "P75" to obtain the 25th and 75th percentile, respectively.

Number of responses:

DFR: 6. MLF: 6.

MRO: 6.

1.2 Please indicate the percentage chance you attach to a change at the dates surrounding the timing of the next rate change (increase or decrease) that you specified in your response to Question 1.1.

Expected timing of the next change, conditional on it being an increase

(date)				
	25th percentile	Median	75th percentile	
DFR	Dec-22	Dec-22	Dec-22	
MRO	Dec-22	Dec-22	Dec-22	

Note: Average probability distribution.
Series key: SMA_DEC22.MEDIAN.GC_Z.U2._Z.DFR_CHANGE_DATE_INCREASE_UNWEIGHTED,
SMA_DEC22.MEDIAN.GC._Z.U2._Z.MRO_CHANGE_DATE_INCREASE_UNWEIGHTED. Replace "MEDIAN" with "P25" or "P75" to obtain the 25th and 75th percentile, respectively.
Number of responses:

DFR: 29. MRO: 29.

Expected timing of the next change, conditional on it being a decrease

(date)			
	25th percentile	Median	75th percentile
DFR	Apr-23	Jul-23	Mar-24
MRO	Apr-23	Jul-23	Mar-24

Note: Average probability distribution.
Series key: SMA_DEC22.MEDIAN.GC_Z.U2_Z.DFR_CHANGE_DATE_DECREASE_UNWEIGHTED,
SMA.DEC22.MEDIAN.GC_Z.U2_Z.MRO_CHANGE_DATE_DECREASE_UNWEIGHTED. Replace "MEDIAN" with "P25" or "P75" to obtain the 25th and 75th percentile, respectively.
Number of responses:
DFR: 6.
MRO: 6

1.3 Please indicate the percentage chance you attach to larger and smaller sizes of the next change (increase or decrease) in the DFR and MRO that you specified in your response to Question 1.1.

Expected size of the next change

(percentages)				
	DFR	MRO		
<-75	0.0	0.0		
-75	0.0	0.0		
70	0.0	0.0		
-65	0.0	0.0		
-60	0.0	0.0		
-55	0.0	0.0		
-50	19.3	17.5		

	DFR	MRO
-45	0.0	0.0
-40	0.0	0.0
-35	0.0	0.0
-30	0.7	0.8
-25	65.0	64.2
-20	2.9	3.3
-15	1.4	1.7
-10	8.6	10.0
-5	2.1	2.5
5	0.0	0.0
10	0.0	0.0
15	0.0	0.0
20	0.0	0.0
25	1.0	1.4
30	0.0	0.0
35	0.0	0.0
40	0.0	0.0
45	0.0	0.0
50	64.7	63.2
55	0.0	0.0
60	0.0	0.0
65	0.0	0.0
70	1.1	0.0
75	32.4	34.3
>75	0.4	0.6

Note: Average probability distribution. Percentages add up to 200 as probabilities for both decrease and increase in interest rate are

Note: Average probability distribution. Percentages and up to 200 as probabilities for both decrease and increase in interest rate are included. They may not add up exactly due to rounding.

Series key: SMA.DEC22.MEAN.M.PR.U2.BIN.DFR_CHANGE_SIZE_DECREASE_UNWEIGHTED,

SMA.DEC22.MEAN.M.PR.U2.BIN.DFR_CHANGE_SIZE_INCREASE_UNWEIGHTED. "BIN" is a placeholder to be replaced with the centre of each bin [-80, -75, -70, -65, -60, -55, -50, -45, -40, -35, -30, -25, -20, -15, -10, -5, 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80]. Choose between "DFR" and "MRO"

Number of responses: DFR: 29. MRO: 22.

Please indicate the level (in percentage per annum) of 1.4 the following interest rates that you consider most likely (i.e. the mode) to prevail over the reserve maintenance period after the Governing Council monetary policy meetings listed below. Also, indicate the level that you consider most likely (i.e. the mode) to prevail at the end of each of the quarters and years listed below, and in the long run.

Expectations for the DFR

(percentages per annum)			
	25th percentile	Median	75th percentile
Dec-2022	2.00	2.00	2.00
Feb-2023	2.25	2.50	2.50
Mar-2023	2.50	2.75	2.75
Apr-2023	2.50	2.75	3.00
Jun-2023	2.50	2.75	3.00
Jul-2023	2.50	2.75	3.00
Sep-2023	2.50	2.75	3.00
Oct-2023	2.50	2.75	3.00
2023Q4	2.50	2.75	3.00
2024Q1	2.50	2.75	3.00
2024Q2	2.50	2.75	2.94
2024Q3	2.25	2.50	2.75
2024Q4	2.00	2.50	2.75
2025Q1	2.00	2.50	2.69
2025Q2	2.00	2.25	2.50
2025Q3	2.00	2.25	2.50
2025Q4	2.00	2.00	2.50
2026Q1	2.00	2.00	2.50
2026Q2	1.56	2.00	2.25
2026Q3	1.56	2.00	2.25
2026Q4	1.56	2.00	2.25
long run	1.50	2.00	2.19

Note: Cross-sectional distribution. The number of respondents refers to the number of respondents of the date with the highest

number of respondents; it is not necessarily the same for each date.

Series key: SMA.DEC22.MEDIAN.A.I.U2._Z.DFR. Replace "MEDIAN" with "P25" or "P75" to obtain the 25th and 75th percentile, respectively. Choose "GC", "Q" or "A" for Governing Council, quarterly or annual frequency, respectively. Number of responses: 29.

Expectations for the MRO

(percentages per annum)				
	25th percentile	Median	75th percentile	
Dec-2022	2.50	2.50	2.50	
Feb-2023	2.75	3.00	3.00	

	25th percentile	Median	75th percentile
Mar-2023	3.00	3.00	3.25
Apr-2023	3.00	3.25	3.50
Jun-2023	3.00	3.25	3.50
Jul-2023	3.00	3.25	3.50
Sep-2023	3.00	3.25	3.50
Oct-2023	3.00	3.25	3.50
2023Q4	3.00	3.25	3.50
2024Q1	3.00	3.25	3.50
2024Q2	2.81	3.25	3.25
2024Q3	2.75	3.00	3.25
2024Q4	2.50	3.00	3.25
2025Q1	2.50	2.75	3.19
2025Q2	2.31	2.50	3.00
2025Q3	2.25	2.50	3.00
2025Q4	2.06	2.50	2.94
2026Q1	2.06	2.50	3.00
2026Q2	2.00	2.50	2.75
2026Q3	2.00	2.50	2.75
2026Q4	2.00	2.50	2.69
long run	2.00	2.50	2.50

Note: Cross-sectional distribution. The number of respondents refers to the number of respondents of the date with the highest number of respondents; it is not necessarily the same for each date.

Series key: SMA.DEC22.MEDIAN.A.I.U2._Z.MRO. Replace "MEDIAN" with "P25" or "P75" to obtain the 25th and 75th percentile, respectively. Choose "GC", "Q" or "A" for Governing Council, quarterly or annual frequency, respectively. Number of responses: 29.

Expectations for the MLF

(percentages per annum)

	25th percentile	Median	75th percentile
Dec-2022	2.75	2.75	2.75
Feb-2023	3.00	3.25	3.25
Mar-2023	3.25	3.25	3.50
Apr-2023	3.25	3.50	3.75
Jun-2023	3.25	3.50	3.75
Jul-2023	3.25	3.50	3.75
Sep-2023	3.25	3.50	3.75
Oct-2023	3.25	3.50	3.75
2023Q4	3.25	3.50	3.75
2024Q1	3.25	3.50	3.75
2024Q2	3.06	3.50	3.75
2024Q3	3.00	3.25	3.69
2024Q4	2.75	3.25	3.50
2025Q1	2.75	3.00	3.50
2025Q2	2.50	2.75	3.44
2025Q3	2.50	2.75	3.44
2025Q4	2.31	2.75	3.25

	25th percentile	Median	75th percentile
2026Q1	2.31	2.75	3.25
2026Q2	2.25	2.75	3.25
2026Q3	2.25	2.75	3.25
2026Q4	2.25	2.75	3.00
long run	2.25	2.75	3.00

Note: Cross-sectional distribution. The number of respondents refers to the number of respondents of the date with the highest number of respondents; it is not necessarily the same for each date.

Series key: SMA.DEC22.MEDIAN.A.I.U2._Z.MLF. Replace "MEDIAN" with "P25" or "P75" to obtain the 25th and 75th percentile, respectively. Choose "GC", "Q" or "A" for Governing Council, quarterly or annual frequency, respectively. Number of responses: 29.

Expectations for the €STR

(percentages per annum)

	25th percentile	Median	75th percentile
Oct-2022	0.66	1.40	1.41
Dec-2022	1.90	1.91	1.92
Feb-2023	2.17	2.24	2.40
Mar-2023	2.41	2.45	2.66
Apr-2023	2.42	2.67	2.90
Jun-2023	2.43	2.70	2.95
Jul-2023	2.43	2.71	2.96
Sep-2023	2.43	2.73	3.01
Oct-2023	2.44	2.74	3.01
2023Q4	2.45	2.77	2.96
2024Q1	2.40	2.80	2.94
2024Q2	2.41	2.75	2.95
2024Q3	2.20	2.60	2.90
2024Q4	2.00	2.47	2.90
2025Q1	1.95	2.35	2.82
2025Q2	1.90	2.23	2.70
2025Q3	1.89	2.15	2.70
2025Q4	1.82	2.10	2.58
2026Q1	1.77	2.10	2.58
2026Q2	1.60	2.08	2.58
2026Q3	1.60	1.99	2.63
2026Q4	1.60	1.96	2.45
long run	1.50	1.92	2.27

Note: Cross-sectional distribution. The number of respondents refers to the number of respondents of the date with the highest Note: Cross-sectional distribution. The number of respondents refers to the number of respondents of the date with the nighest number of respondents; it is not necessarily the same for each date.

Series key: SMA.DEC22.MEDIAN.A.I.U2_Z.ESTR. Replace "MEDIAN" with "P25" or "P75" to obtain the 25th and 75th percentile, respectively. Choose "GC", "Q" or "A" for Governing Council, quarterly or annual frequency, respectively.

Number of responses: 23.

Expectations for the 3-month Euribor

(percentages per annum)

	25th percentile	Median	75th percentile
Oct-2022	1.70	1.70	1.86

	25th percentile	Median	75th percentile
Dec-2022	2.10	2.30	2.47
Feb-2023	2.42	2.60	2.80
Mar-2023	2.60	2.83	3.02
Apr-2023	2.65	2.97	3.10
Jun-2023	2.80	2.97	3.25
Jul-2023	2.80	3.00	3.25
Sep-2023	2.80	3.00	3.20
Oct-2023	2.80	3.00	3.20
2023Q4	2.70	3.03	3.35
2024Q1	2.64	2.93	3.30
2024Q2	2.50	2.91	3.20
2024Q3	2.40	2.83	3.20
2024Q4	2.15	2.78	3.07
2025Q1	2.10	2.58	3.03
2025Q2	2.15	2.35	2.85
2025Q3	2.10	2.28	2.85
2025Q4	2.05	2.28	2.80
2026Q1	2.05	2.28	2.83
2026Q2	1.90	2.27	2.82
2026Q3	1.90	2.22	2.80
2026Q4	1.90	2.17	2.63
long run	1.75	2.15	2.48

Note: Cross-sectional distribution. The number of respondents is the maximum number of respondents for a given date, which is not

necessarily the same for each date.

Series key: SMA.DEC22.MEDIAN.A.I.U2._Z.EURIBOR_3M. Replace "MEDIAN" with "P25" or "P75" to obtain the 25th and 75th percentile, respectively. Choose "GC", "Q" or "A" for Governing Council, quarterly or annual frequency, respectively. Number of responses: 22.

Please indicate the level of the swap rate or bond yield 1.5 (in percentage per annum) of the following financial instruments that you consider most likely (i.e. the mode) to prevail at the end of the time horizon listed below.

Expectations for the 10-year OIS (based on €STR)

(percentages per annum)

	25th percentile	Median	75th percentile
12 months ahead	2.36	2.75	3.00
24 months ahead	2.40	2.53	2.78

Note: Cross-sectional distribution. The number of respondents refers to the number of respondents of the date with the highest

number of respondents; it is not necessarily the same for each date.

Series key: SMA.DEC22.MEDIAN.M.I.U2._Z.OIS_10Y. Replace "MEDIAN" with "P25" or "P75" to obtain the 25th and 75th percentile, respectively.

Number of responses: 21.

Expectations for the German 10-year government bond

(percentages per annum)

	25th percentile	Median	75th percentile
12 months ahead	2.11	2.30	2.60
24 months ahead	2.06	2.25	2.47

Note: Cross-sectional distribution. The number of respondents refers to the number of respondents of the date with the highest number of respondents; it is not necessarily the same for each date.

Series key: SMA.DEC22.MEDIAN.M.I.U2._Z.GERMAN_10Y. Replace "MEDIAN" with "P25" or "P75" to obtain the 25th and 75th

percentile, respectively.

Number of responses: 27.

Expectations for the French 10-year government bond

(percentages per annum)

	25th percentile	Median	75th percentile
12 months ahead	2.49	2.80	3.13
24 months ahead	2.41	2.75	3.03

Note: Cross-sectional distribution. The number of respondents refers to the number of respondents of the date with the highest

number of respondents; it is not necessarily the same for each date.

Series key: SMA.DEC22.MEDIAN.M.I.U2._Z.FRENCH_10Y. Replace "MEDIAN" with "P25" or "P75" to obtain the 25th and 75th percentile, respectively.

Number of responses: 24.

Expectations for the Italian 10-year government bond

(percentages per annum)

	25th percentile	Median	75th percentile
12 months ahead	4.07	4.50	4.82
24 months ahead	3.95	4.40	4.64

Note: Cross-sectional distribution. The number of respondents refers to the number of respondents of the date with the highest

number of respondents; it is not necessarily the same for each date.

Series key: SMA.DEC22.MEDIAN.M.I.U2._Z.ITALIAN_10Y. Replace "MEDIAN" with "P25" or "P75" to obtain the 25th and 75th percentile, respectively. Number of responses: 25.

Expectations for the Spanish 10-year government bond

(percentages per annum)

	25th percentile	Median	75th percentile
12 months ahead	3.15	3.47	3.75
24 months ahead	2.95	3.25	3.70

Note: Cross-sectional distribution. The number of respondents refers to the number of respondents of the date with the highest number of respondents; it is not necessarily the same for each date.

Series key: SMA.DEC22.MEDIAN.M.I.U2._Z.SPANISH_10Y. Replace "MEDIAN" with "P25" or "P75" to obtain the 25th and 75th

percentile, respectively. Number of responses: 26.

2 Asset Purchases and Reinvestment

2.1 In the October 2022 Monetary Policy Decisions, the Governing Council stated that it intends "to continue reinvesting, in full, the principal payments from maturing securities purchased under the APP for an extended period of time past the date when it started raising the key ECB interest rates and, in any case, for as long as necessary to maintain ample liquidity conditions and an appropriate monetary policy stance". Please provide your expectations of the most likely date (i.e. the mode) until when the Governing Council continues reinvesting, in full, the principal payments from maturing securities purchased under the APP.

(date)			
	25th percentile	Median	75th percentile
End date of APP full reinvestments	Mar-23	Mar-23	Jun-23

Note: Cross-sectional distribution.
Series key: SMA.DEC22.MEDIAN.M._Z.U2._Z.APP_REINVESTMENTS_END. Replace "MEDIAN" with "P25" or "P75" to obtain the 25th and 75th percentile, respectively.
Number of responses: 29.

In the October 2022 Monetary Policy Decisions, the Governing Council stated, as concerns the PEPP, that it "intends to reinvest the principal payments from maturing securities purchased under the programme until at least the end of 2024. In any case, the future roll-off of the PEPP portfolio will be managed to avoid interference with the appropriate monetary policy stance". Please provide your expectations of the most likely date (i.e. the mode) until when the Governing Council reinvests the principal payments from maturing securities purchased under the PEPP.

(date)			
	25th percentile	Median	75th percentile
End date of PEPP full reinvestments	Dec-24	Dec-24	Dec-24

Note: Cross-sectional distribution.
Series key: SMA.DEC22.MEDIAN.M._Z.U2._Z.PEPP_REINVESTMENTS_END. Replace "MEDIAN" with "P25" or "P75" to obtain the 25th and 75th percentile, respectively.
Number of responses: 29.

2.3 Please provide your expectations of the most likely (i.e. the mode) Eurosystem stock of bonds under the APP and the PEPP (cumulative net purchases) at the end of each of the periods listed below (book value, EUR billions).

Expectations for the Eurosystem stock of bonds under the APP

(EUR billion)			
	25th percentile	Median	75th percentile
2022Q4	3434	3434	3434
2023Q1	3433	3434	3434
2023Q2	3374	3394	3434
2023Q3	3298	3350	3390
2023Q4	3226	3293	3351
2024Q1	3158	3222	3314
2024Q2	3093	3142	3281
2024Q3	3014	3074	3245
2024Q4	2940	3003	3211
2025Q1	2855	2947	3171
2025Q2	2781	2866	3088

	25th percentile	Median	75th percentile
2025Q3	2702	2800	2996
2025Q4	2624	2740	2910
2026Q1	2516	2680	2818
2026Q2	2430	2620	2725
2026Q3	2345	2500	2642
2026Q4	2259	2402	2580

Note: Cross-sectional distribution. The number of respondents is the maximum number of respondents for a given date, which is not necessarily the same for each date.

Series key: SMA_DEC22_MEDIAN.Q_EUR.U2._Z_EUROSYSTEM_APP_HOLDINGS. Replace "MEDIAN" with "P25" or "P75" to obtain the 25th and 75th percentile, respectively.

Number of responses: 29.

Expectations for the Eurosystem stock of bonds under the PEPP

EUR billion)			
	25th percentile	Median	75th percentile
2022Q4	1713	1713	1713
2023Q1	1713	1713	1713
2023Q2	1713	1713	1713
2023Q3	1713	1713	1713
2023Q4	1713	1713	1713
2024Q1	1713	1713	1713
2024Q2	1713	1713	1713
2024Q3	1713	1713	1713
2024Q4	1713	1713	1713
2025Q1	1663	1678	1700
2025Q2	1613	1638	1676
2025Q3	1563	1593	1631
2025Q4	1528	1553	1598
2026Q1	1470	1533	1564
2026Q2	1413	1493	1533
2026Q3	1363	1455	1510
2026Q4	1313	1433	1486

Note: Cross-sectional distribution. The number of respondents refers to the number of respondents of the date with the highest number of respondents; it is not necessarily the same for each date.

Series key: SMA.DEC22.MEDIAN.Q.EUR.U2._Z.EUROSYSTEM_PEPP_HOLDINGS. Replace "MEDIAN" with "P25" or "P75" to obtain the 25th and 75th percentile, respectively. Number of responses: 29.

During the press conference on 27 October 2022, President Lagarde said that the Governing Council "would decide the key principles of the reduction of our APP monetary portfolio in December". Please provide details of your expectations in this regard.

^{*}Aggregate results not available for open-ended questions.

2.5 Please indicate whether you expect any changes to the forward guidance on the APP reinvestments.

(percentages)		
	No	Yes
Share of respondents	6.9	93.1

Note: Percentage of respondents.
Series key: SMA.DEC22.PC. Z._Z.U2.NO.CHANGES_FORWARD_GUIDANCE_REINVESTMENTS,
SMA.DEC22.PC._Z._Z.U2.YES.CHANGES_FORWARD_GUIDANCE_REINVESTMENTS.
Number of responses: 27.

2.6 Please indicate whether you expect any changes to the forward guidance on the PEPP reinvestments.

(percentages)		
	No	Yes
Share of respondents	79.3	20.7

Note: Percentage of respondents.
Series key: SMA.DEC22.PC._Z._Z.U2.NO.CHANGES_FORWARD_GUIDANCE_PEPP,
SMA.DEC22.PC._Z._Z.U2.YES.CHANGES_FORWARD_GUIDANCE_PEPP.
Number of responses: 23.

2.7 In the October 2022 Monetary Policy Decisions, the Governing Council stated that it "will continue applying flexibility in reinvesting redemptions coming due in the PEPP portfolio, with a view to countering risks to the transmission mechanism related to the pandemic". For how many months do you expect redemptions coming due in the PEPP portfolio to be reinvested flexibly?

Expectations for the number of months of PEPP flexibility

(number of months)			
	25th percentile	Median	75th percentile
2022	1	1	1
2023	11	12	12
2024	6	12	12
Beyond 2024	0	0	5

Note: Cross-sectional distribution. The number of respondents refers to the number of respondents of the date with the highest number of respondents; it is not necessarily the same for each date.

Series key: SMA.DEC22.MEDIAN.A._Z.U2._Z.PEPP_FLEXIBILITY. Replace "MEDIAN" with "P25" or "P75" to obtain the 25th and 75th percentile, respectively. Number of responses: 29.

Please indicate the percentage chance you attach to the 2.8 Transmission Protection Instrument (TPI) being activated within the horizon specified below.

Expectations for the probability of TPI being activated

ntages)

	25th percentile	Median	75th percentile
Within the next 6 months	6.2	20.0	30.0
Within the next 12 months	20.0	30.0	43.8
Within the next 24 months	20.0	30.0	50.0

Note: Median probability. The number of respondents is the maximum number of respondents for a given date, which is not necessarily the same for each date

Series key: SMA.DEC22.MEDIAN.M._Z.U2._Z.TPI_ACTIVATION. Replace "MEDIAN" with "P25" or "P75" to obtain the 25th and 75th percentile, respectively.

Number of responses: 27.

3 Refinancing Operations

3.1 Please provide your estimate of the total repayments (EUR billions) of the operations under TLTRO III for the dates listed below.

Expected repayments under TLTRO III

(EUR billion)			
	25th percentile	Median	75th percentile
2022-12	236	311	496
2023-01	55	130	250
2023-02	50	95	187
2023-03	100	158	297
2023-06	265	482	659
2023-09	91	133	158
2023-12	40	78	134
2024-03	73	108	204
2024-06	38	73	90
2024-09	19	50	77
2024-12	6	22	37

Note: Cross-sectional distribution. Series key: SMA.DEC22.MEDIAN._Z.EUR.U2.

4 Macroeconomic Outlook

4.1 For the euro area, please provide your estimates of the most likely outcome (i.e. the mode) for real GDP growth, the unemployment rate and inflation.

Expectations for real GDP growth

(percentage change)			
	25th percentile	Median	75th percentile
2022Q4	-0.5	-0.4	-0.2
2023Q1	-0.6	-0.3	-0.2
2023Q2	-0.2	0.1	0.2
2023Q3	0.1	0.2	0.4
2023Q4	0.2	0.2	0.4
2024Q1	0.3	0.3	0.5
2024Q2	0.3	0.4	0.5
2024Q3	0.3	0.4	0.5
2024Q4	0.3	0.4	0.4
2025Q1	0.3	0.4	0.4
2025Q2	0.3	0.4	0.4
2025Q3	0.3	0.3	0.4
2025Q4	0.3	0.3	0.4
2026Q1	0.3	0.3	0.4
2026Q2	0.3	0.3	0.4
2026Q3	0.3	0.3	0.4
2026Q4	0.3	0.3	0.4
long run	1.1	1.3	1.4

Note: Cross-sectional distribution. Quarter-on-quarter change, calendar and seasonally adjusted but not annualised for quarterly values; and year-on-year for long run values. The number of respondents refers to the number of respondents of the date with the highest number of respondents; it is not necessarily the same for each date.

highest number of respondents; it is not necessarily the same for each date. Series key: SMA_DEC22.MEDIAN.Q.Q.U2._Z.YER (quarterly data) and SMA.DEC22.MEDIAN.A.Y.U2._Z.YER (long run). In addition, select in the date_descr column the value "long run". Replace "MEDIAN" with "P25" or "P75" to obtain the 25th and 75th percentile, respectively.

Number of responses: 29.

Expectations for unemployment rate

(percentage rate)						
	25th percentile	Median	75th percentile			
2022Q4	6.7	6.7	6.8			
2023Q1	6.8	6.9	7.0			
2023Q2	6.9	7.1	7.2			
2023Q3	6.9	7.1	7.2			
2023Q4	6.9	7.1	7.3			
2024Q1	7.0	7.1	7.2			
2024Q2	6.9	7.1	7.3			

	25th percentile	Median	75th percentile
2024Q3	6.9	7.0	7.3
2024Q4	6.8	6.9	7.3
2025Q1	6.7	6.8	7.1
2025Q2	6.7	6.8	7.0
2025Q3	6.6	6.8	7.0
2025Q4	6.6	6.8	7.0
2026Q1	6.5	6.8	6.9
2026Q2	6.5	6.8	6.9
2026Q3	6.5	6.8	6.9
2026Q4	6.5	6.8	6.9
long run	6.3	6.7	7.0

Note: Cross-sectional distribution. Quarterly average and seasonally adjusted. The number of respondents refers to the number of respondents of the date with the highest number of respondents; it is not necessarily the same for each date. Series key: SMA.DEC22.MEDIAN.Q.PC.U2._Z.URX (quarterly data) and SMA.DEC22.MEDIAN.A.PC.U2._Z.URX (long run). In addition, select in the date_descr column the value "long run". Replace "MEDIAN" with "P25" or "P75" to obtain the 25th and 75th percentile, respectively.

Number of responses: 29.

Median expected HICP inflation rates

(percentage change)

	25th percentile	Median	75th percentile
2022Q4	10.0	10.3	10.6
2023Q1	8.5	8.8	9.4
2023Q2	6.5	7.0	8.1
2023Q3	4.7	5.5	6.7
2023Q4	2.9	3.4	4.6
2024Q1	2.3	2.5	3.3
2024Q2	2.1	2.3	2.6
2024Q3	1.9	2.2	2.6
2024Q4	1.7	2.0	2.5
2025Q1	1.7	2.0	2.2
2025Q2	1.7	2.0	2.2
2025Q3	1.9	2.0	2.2
2025Q4	1.9	2.0	2.2
2026Q1	1.9	2.0	2.1
2026Q2	2.0	2.0	2.1
2026Q3	2.0	2.0	2.1
2026Q4	1.9	2.0	2.1
long run	2.0	2.0	2.1

Note: Cross-sectional distribution. Year-on-year change. The number of respondents refers to the number of respondents of the date with the highest number of respondents; it is not necessarily the same for each date.

Series key: SMA.DEC22.MEDIAN.Q.Y.U2._Z.HIC (quarterly data) and SMA.DEC22.MEDIAN.A.Y.U2._Z.HIC (long run). In addition, select in the date_descr column the value "long run". Replace "MEDIAN" with "P25" or "P75" to obtain the 25th and 75th percentile, respectively.

Number of responses: 29.

Median expected HICP excluding food and energy inflation rates

(percentage change)			
	25th percentile	Median	75th percentile
2022Q4	5.0	5.0	5.1
2023Q1	4.5	5.0	5.3
2023Q2	4.1	4.4	5.0
2023Q3	3.3	3.9	4.4
2023Q4	2.6	3.1	3.6
2024Q1	2.5	2.8	3.2
2024Q2	2.3	2.6	2.9
2024Q3	2.1	2.4	2.7
2024Q4	2.0	2.3	2.6
2025Q1	2.0	2.2	2.3
2025Q2	2.0	2.1	2.3
2025Q3	2.0	2.0	2.3
2025Q4	1.9	2.1	2.2
2026Q1	1.8	2.0	2.1
2026Q2	1.8	2.0	2.1
2026Q3	1.9	2.0	2.1
2026Q4	1.9	2.0	2.1

Note: Cross-sectional distribution. Year-on-year change. The number of respondents refers to the number of respondents of the date with the highest number of respondents; it is not necessarily the same for each date.

Series key: SMA.DEC22.MEDIAN.Q.Y.U2._Z.HEF (quarterly data) and SMA.DEC22.MEDIAN.A.Y.U2._Z.HEF (long run). In addition, select in the date_descr column the value "long run". Replace "MEDIAN" with "P25" or "P75" to obtain the 25th and 75th percentile,

respectively.
Number of responses: 29.

long run

Please indicate the percentage chance that you attach to 4.2 average annual HICP inflation being below or above 2% in the following years.

1.8

Median expectation

(percentages)							
Date	Below 2%	Above 2%					
2022	0.0	100.0					
2023	5.0	95.0					
2024	40.0	60.0					
2025	50.0	50.0					

Note: Median probability. The number of respondents is the maximum number of respondents for a given date, which is not Note: Median probability. The number of respondents is the maximum number of respondents are the maximum number of respondents are the maximum number of respondents are the number of responses; 22.

Series key: SMA.DEC22.MEDIAN.A._Z.U2.BELOW_2.HIC_TARGET_DISTRIBUTION.

SMA.DEC22.MEDIAN.A._Z.U2.BELOW_2.HIC_TARGET_DISTRIBUTION.

Number of responses; 22.

4.3 Please indicate the percentage chance that you attach to the following levels of long-run HICP inflation.

Percentage chance of next rate change being an increase

(percentages)															
	<0.1	0.1 - 0.3%	0.4 - 0.6%	0.7 - 0.9%	1.0 - 1.2%	0.3 - 1.5%	1.6 - 1.8%	1.9 - 2.1%	2.2 - 2.4%	2.5 - 2.7%	2.8 - 3.0%	3.1 - 3.3%	3.4 - 3.6%	3.7 - 3.9%	≥4.0
Average probability	0.3	0.4	0.8	1.4	2.7	7.1	16.5	32.0	22.1	8.6	4.3	2.2	0.8	0.5	0.4

Note: Cross-sectional distributions. SMA_DEC22.MEAN.M.PR.U2.BIN.HIC_LR_DISTRIBUTION. "BIN" is a placeholder to be replaced with the centre of each bin [-0.1, 0.2, 0.5, 0.8, 1.1, 1.4, 1.7, 2, 2.3, 2.6, 2.9, 3.2, 3.5, 3.8, 4.1]. Number of responses: 28.

4.4 How do you assess the balance of risks surrounding your projections for euro area growth and inflation? In the second table below, please specify any particular risks that you consider important, even beyond this horizon.

Risks surrounding the euro area growth outlook

(percentages)			
Date	Downside	Balanced	Upside
2022	65.5	27.6	6.9
2023	72.4	17.2	10.3
2024	27.6	69.0	3.4
2025	0.0	95.7	4.3

Note: Percentage of respondents. Percentages may not add up to 100 due to rounding. The number of respondents refers to the number of respondents of the date with the highest number of respondents; it is not necessarily the same for each date Series key: SMA.DEC22.PC.A._Z.U2.DOWNSIDE.YER_RISKS, Replace "DOWNSIDE" with "BALANCED" or "UPSIDE" Number of responses: 29.

Risks surrounding the euro area inflation outlook

(percentages)			
Date	Downside	Balanced	Upside
2022	0.0	44.8	55.2
2023	13.8	24.1	62.1
2024	3.6	67.9	28.6
2025	0.0	82.6	17.4

Note: Percentage of respondents. Percentages may not add up to 100 due to rounding. The number of respondents refers to the number of respondents of the date with the highest number of respondents; it is not necessarily the same for each date. Series key: SMA.DEC22.PC.A._Z.U2.DOWNSIDE.HIC_RISKS, Replace "DOWNSIDE" with "BALANCED" or "UPSIDE"

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