



EUROPEAN CENTRAL BANK

EUROSYSTEM

# The ECB Survey of Monetary Analysts

Aggregate results

October 2021



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## Summary Report<sup>1</sup>

This report summarises the aggregated results of the Survey of Monetary Analysts (SMA) of **October 2021**. The survey period was from 11 October 2021 to 14 October 2021 and 24 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.

The notes to each table provide the relevant series keys for the corresponding data in the csv-file accompanying this publication (see Annex).

This report uses abbreviations for key monetary policy parameters. For additional specific terminology, please refer to the [ECB glossary](#).

The survey questionnaire is available at:

[https://www.ecb.europa.eu/stats/ecb\\_surveys/sma/shared/pdf/ecb.sma202110\\_questionnaire.en.pdf](https://www.ecb.europa.eu/stats/ecb_surveys/sma/shared/pdf/ecb.sma202110_questionnaire.en.pdf)

More information on the SMA is available at:

[https://www.ecb.europa.eu/stats/ecb\\_surveys/sma/html/index.en.html](https://www.ecb.europa.eu/stats/ecb_surveys/sma/html/index.en.html)

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<sup>1</sup> Version from 13 June 2022

# Key ECB Interest Rates, Market Rates and Market Conditions

## Question 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
<b>DFR</b>	90.0	95.0	100.0
<b>MRO</b>	95.0	99.0	100.0
<b>MLF</b>	95.0	99.5	100.0

Note: Cross-sectional distribution.

Series key: SMA.OCT21.MEDIAN\_Z\_Z.U2.INCREASE.DFR\_PR\_DIRECTION,

SMA.OCT21.MEDIAN\_Z\_Z.U2.INCREASE.MRO\_PR\_DIRECTION,

SMA.OCT21.MEDIAN\_Z\_Z.U2.INCREASE.MLF\_PR\_DIRECTION. Replace "MEDIAN" with "P25" or "P75" to obtain the 25th and 75th percentile, respectively.

Number of respondents: DFR: 21; MRO: 19; MLF: 18.

### Percentage chance of next rate change being a decrease

(percentages)

Variable	25th percentile	Median	75th percentile
<b>DFR</b>	0.0	5.0	10.0
<b>MRO</b>	0.0	1.0	5.0
<b>MLF</b>	0.0	0.5	5.0

Note: Cross-sectional distribution.

Series key: SMA.OCT21.MEDIAN\_Z\_Z.U2.DECREASE.DFR\_PR\_DIRECTION,

SMA.OCT21.MEDIAN\_Z\_Z.U2.DECREASE.MRO\_PR\_DIRECTION,

SMA.OCT21.MEDIAN\_Z\_Z.U2.DECREASE.MLF\_PR\_DIRECTION. Replace "MEDIAN" with "P25" or "P75" to obtain the 25th and 75th percentile, respectively.

Number of respondents: DFR: 21; MRO: 19; MLF: 18.

### Expected size of the next rate increase

(basis points)

Interest rate	25th percentile	Median	75th percentile
<b>DFR</b>	10	10	25
<b>MRO</b>	10	25	25
<b>MLF</b>	10	25	25

Note: Cross-sectional distribution.

Series key: SMA.OCT21.MEDIAN\_Z\_BP.U2\_Z.DFR\_CHANGE\_SIZE\_INCREASE,

SMA.OCT21.MEDIAN\_Z\_BP.U2\_Z.MRO\_CHANGE\_SIZE\_INCREASE,

SMA.OCT21.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 respondents: DFR: 21; MRO: 19; MLF: 19.

## Expected size of the next rate decrease

(basis points)

Interest rate	25th percentile	Median	75th percentile
<b>DFR</b>	-10	-10	-10
<b>MRO</b>	-10	-10	-10
<b>MLF</b>	-10	-10	-9

Note: Cross-sectional distribution.

Series key: SMA.OCT21.MEDIAN\_Z.BP.U2\_Z.DFR\_CHANGE\_SIZE\_DECREASE,

SMA.OCT21.MEDIAN\_Z.BP.U2\_Z.MRO\_CHANGE\_SIZE\_DECREASE,

SMA.OCT21.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 respondents: DFR: 13; MRO: 9; MLF: 9.

## Expected timing of the next rate increase

(date)

Interest rate	25th percentile	Median	75th percentile
<b>DFR</b>	Dec-23	Jun-24	Apr-25
<b>MRO</b>	Aug-24	Mar-25	Jan-26
<b>MLF</b>	Aug-24	Mar-25	Jan-26

Note: Cross-sectional distribution.

Series key: SMA.OCT21.MEDIAN\_GC\_Z.U2\_Z.DFR\_CHANGE\_DATE\_INCREASE,

SMA.OCT21.MEDIAN\_GC\_Z.U2\_Z.MRO\_CHANGE\_DATE\_INCREASE,

SMA.OCT21.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 respondents: DFR: 21; MRO: 19; MLF: 19.

## Expected timing of the next rate decrease

(date)

Interest rate	25th percentile	Median	75th percentile
<b>DFR</b>	Dec-21	Mar-22	Jun-22
<b>MRO</b>	Dec-21	Jun-22	Jun-22
<b>MLF</b>	Dec-21	Jun-22	Jun-22

Note: Cross-sectional distribution.

Series key: SMA.OCT21.MEDIAN\_GC\_Z.U2\_Z.DFR\_CHANGE\_DATE\_DECREASE,

SMA.OCT21.MEDIAN\_GC\_Z.U2\_Z.MRO\_CHANGE\_DATE\_DECREASE,

SMA.OCT21.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 respondents: DFR: 11; MRO: 9; MLF: 9.

### Question 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 for the DFR, conditional on it being an increase

(date)

	25th percentile	Median	75th percentile
Date of next interest rate change	Dec-23	Jun-24	Apr-25

Note: Average probability distribution.

Series key: SMA.OCT21.MEDIAN.GC.\_Z.U2.\_Z.DFR\_CHANGE\_DATE\_INCREASE\_UNWEIGHTED. Replace "MEDIAN" with "P25" or "P75" to obtain the 25th and 75th percentile, respectively.

Number of respondents: 21.

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

(date)

	25th percentile	Median	75th percentile
Date of next interest rate change	Jan-22	Apr-22	Sep-22

Note: Average probability distribution.

Series key: SMA.OCT21.MEDIAN.GC.\_Z.U2.\_Z.DFR\_CHANGE\_DATE\_DECREASE\_UNWEIGHTED. Replace "MEDIAN" with "P25" or "P75" to obtain the 25th and 75th percentile, respectively.

Number of respondents: 11.

#### Expected timing of the next interest rate change for the MRO, conditional on it being an increase

(date)

	25th percentile	Median	75th percentile
Date of next interest rate change	Sep-24	Mar-25	Jan-26

Note: Average probability distribution.

Series key: SMA.OCT21.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 respondents: 19.

#### Expected timing of the next interest rate change for the MRO, conditional on it being a decrease

(date)

	25th percentile	Median	75th percentile
Date of next interest rate change	Jan-22	Apr-22	Sep-22

Note: Average probability distribution.

Series key: SMA.OCT21.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 respondents: 9.

### Question 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 for the DFR

(percentages)

	< -50	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5
<b>Average probability</b>	0.0	0.5	0.5	0.5	0.5	1.4	10.0	13.2	5.9	63.2	4.5
	<b>5</b>	<b>10</b>	<b>15</b>	<b>20</b>	<b>25</b>	<b>30</b>	<b>35</b>	<b>40</b>	<b>45</b>	<b>50</b>	<b>&gt;50</b>
<b>Average probability</b>	2.1	55.7	3.6	10.7	25.2	1.0	0.2	0.0	0.0	1.0	0.5

Note: Average probability distribution. Percentages may not add up to 100 due to rounding.

Series key: SMA.OCT21.MEAN.M.PR.U2.BIN.DFR\_CHANGE\_SIZE\_DECREASE\_UNWEIGHTED,

SMA.OCT21.MEAN.M.PR.U2.BIN.DFR\_CHANGE\_SIZE\_INCREASE\_UNWEIGHTED. "BIN" is a placeholder to be replaced with the centre of each bin [-55, -50, -45, -40, -35, -30, -25, -20, -15, -10, -5] for "DECREASE" and [5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55] for "INCREASE".

Number of respondents: decrease: 11; increase: 21.

#### Expected size of the next change for the MRO

(percentages)

	< -50	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5
<b>Average probability</b>	0.0	0.6	0.6	0.8	0.8	0.9	4.2	10.0	7.8	63.9	10.6
	<b>5</b>	<b>10</b>	<b>15</b>	<b>20</b>	<b>25</b>	<b>30</b>	<b>35</b>	<b>40</b>	<b>45</b>	<b>50</b>	<b>&gt; 50</b>
<b>Average probability</b>	11.9	25.9	7.2	9.1	42.2	1.9	0.6	0.0	0.0	1.3	0.0

Note: Average probability distribution. Percentages may not add up to 100 due to rounding.

Series key: SMA.OCT21.MEAN.M.PR.U2.BIN.MRO\_CHANGE\_SIZE\_DECREASE\_UNWEIGHTED,

SMA.OCT21.MEAN.M.PR.U2.BIN.MRO\_CHANGE\_SIZE\_INCREASE\_UNWEIGHTED. "BIN" is a placeholder to be replaced with the centre of each bin [-55, -50, -45, -40, -35, -30, -25, -20, -15, -10, -5] for "DECREASE" and [5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55] for "INCREASE".

Number of respondents: decrease: 9; increase: 16.

#### Question 1.4

Please indicate the level (in percentage per annum) of 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.<sup>2</sup>

#### Expectations for the DFR

(percentages per annum)

Date	25th percentile	Median	75th percentile
Oct-21	-0.50	-0.50	-0.50
Dec-21	-0.50	-0.50	-0.50
Jan-22	-0.50	-0.50	-0.50
Mar-22	-0.50	-0.50	-0.50
Apr-22	-0.50	-0.50	-0.50
Jun-22	-0.50	-0.50	-0.50
Jul-22	-0.50	-0.50	-0.50
Sep-22	-0.50	-0.50	-0.50
Oct-22	-0.50	-0.50	-0.50
Dec-22	-0.50	-0.50	-0.50
Jan-23	-0.50	-0.50	-0.50
Mar-23	-0.50	-0.50	-0.50
Apr-23	-0.50	-0.50	-0.50
Jun-23	-0.50	-0.50	-0.50
Jul-23	-0.50	-0.50	-0.50
Sep-23	-0.50	-0.50	-0.50
2023Q4	-0.50	-0.50	-0.40
2024Q1	-0.50	-0.50	-0.40
2024Q2	-0.50	-0.45	-0.25
2024Q3	-0.50	-0.40	-0.25
2024Q4	-0.50	-0.28	0.00
2025Q1	-0.45	-0.23	0.00
2025Q2	-0.35	-0.18	0.00
2025Q3	-0.30	0.00	0.25
2025Q4	-0.30	0.00	0.25
2026	0.00	0.25	0.75
2027	0.25	0.75	1.00
2028	0.21	0.75	1.06
2029	0.25	0.75	1.13
Long run	0.75	1.00	1.31

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.OCT21.MEDIAN.GC.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. For the long-run value, select the frequency "A" and select in the date\_desc column the value "long run".  
Number of respondents: 24.

## Expectations for the MRO rate

(percentages per annum)

Date	25th percentile	Median	75th percentile
Oct-21	0.00	0.00	0.00
Dec-21	0.00	0.00	0.00
Jan-22	0.00	0.00	0.00
Mar-22	0.00	0.00	0.00
Apr-22	0.00	0.00	0.00
Jun-22	0.00	0.00	0.00
Jul-22	0.00	0.00	0.00
Sep-22	0.00	0.00	0.00
Oct-22	0.00	0.00	0.00
Dec-22	0.00	0.00	0.00
Jan-23	0.00	0.00	0.00
Mar-23	0.00	0.00	0.00
Apr-23	0.00	0.00	0.00
Jun-23	0.00	0.00	0.00
Jul-23	0.00	0.00	0.00
Sep-23	0.00	0.00	0.00
2023Q4	0.00	0.00	0.00
2024Q1	0.00	0.00	0.00
2024Q2	0.00	0.00	0.05
2024Q3	0.00	0.00	0.10
2024Q4	0.00	0.00	0.25
2025Q1	0.00	0.23	0.33
2025Q2	0.00	0.25	0.40
2025Q3	0.00	0.25	0.50
2025Q4	0.00	0.28	0.50
2026	0.25	0.50	1.00
2027	0.50	1.00	1.50
2028	0.58	1.00	1.50
2029	0.74	1.00	1.56
Long run	1.00	1.50	1.81

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.OCT21.MEDIAN.GC.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. For the long-run value, select the frequency "A" and select in the date\_desc column the value "long run".  
Number of respondents: 24.



## Expectations for the MLF rate

(percentages per annum)

Date	25th percentile	Median	75th percentile
Oct-21	0.25	0.25	0.25
Dec-21	0.25	0.25	0.25
Jan-22	0.25	0.25	0.25
Mar-22	0.25	0.25	0.25
Apr-22	0.25	0.25	0.25
Jun-22	0.25	0.25	0.25
Jul-22	0.25	0.25	0.25
Sep-22	0.25	0.25	0.25
Oct-22	0.25	0.25	0.25
Dec-22	0.25	0.25	0.25
Jan-23	0.25	0.25	0.25
Mar-23	0.25	0.25	0.25
Apr-23	0.25	0.25	0.25
Jun-23	0.25	0.25	0.25
Jul-23	0.25	0.25	0.25
Sep-23	0.25	0.25	0.25
2023Q4	0.25	0.25	0.25
2024Q1	0.25	0.25	0.25
2024Q2	0.25	0.25	0.30
2024Q3	0.25	0.25	0.35
2024Q4	0.25	0.25	0.50
2025Q1	0.25	0.48	0.58
2025Q2	0.25	0.50	0.63
2025Q3	0.25	0.50	0.75
2025Q4	0.25	0.50	0.75
2026	0.50	0.75	1.25
2027	0.75	1.25	2.00
2028	0.95	1.25	1.81
2029	0.98	1.25	2.00
Long run	1.25	2.00	2.06

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.OCT21.MEDIAN.GC.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. For the long-run value, select the frequency "A" and select in the date\_desc column the value "long run".  
Number of respondents: 24.

## Expectations for the €STR

(percentages per annum)

Date	25th percentile	Median	75th percentile
Sep-21	-0.57	-0.57	-0.57
Oct-21	-0.57	-0.57	-0.56
Dec-21	-0.57	-0.57	-0.56
Jan-22	-0.57	-0.57	-0.56
Mar-22	-0.57	-0.57	-0.56
Apr-22	-0.57	-0.57	-0.56
Jun-22	-0.57	-0.56	-0.56
Jul-22	-0.57	-0.56	-0.55
Sep-22	-0.57	-0.56	-0.55
Oct-22	-0.57	-0.56	-0.55
Dec-22	-0.57	-0.56	-0.55
Jan-23	-0.57	-0.56	-0.55
Mar-23	-0.57	-0.56	-0.55
Apr-23	-0.57	-0.56	-0.55
Jun-23	-0.56	-0.55	-0.52
Jul-23	-0.56	-0.55	-0.51
Sep-23	-0.56	-0.55	-0.48
2023Q4	-0.56	-0.53	-0.45
2024Q1	-0.56	-0.50	-0.44
2024Q2	-0.55	-0.45	-0.30
2024Q3	-0.55	-0.41	-0.26
2024Q4	-0.50	-0.30	-0.07
2025Q1	-0.45	-0.25	-0.04
2025Q2	-0.33	-0.10	0.14
2025Q3	-0.25	-0.05	0.23
2025Q4	-0.22	0.05	0.34
2026	-0.05	0.20	0.86
2027	0.22	0.80	1.26
2028	0.18	0.70	1.32
2029	0.24	0.70	1.46
Long run	0.75	1.30	1.52

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.OCT21.MEDIAN.GC.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. For the long-run value, select the frequency "A" and select in the date\_desc column the value "long run".  
Number of respondents: 22.

## Expectations for the 3-month EURIBOR

(percentages per annum)

Date	25th percentile	Median	75th percentile
Sep-21	-0.55	-0.55	-0.54
Oct-21	-0.55	-0.54	-0.54
Dec-21	-0.55	-0.54	-0.53
Jan-22	-0.54	-0.54	-0.52
Mar-22	-0.54	-0.53	-0.52
Apr-22	-0.54	-0.53	-0.51
Jun-22	-0.54	-0.52	-0.51
Jul-22	-0.54	-0.52	-0.50
Sep-22	-0.54	-0.52	-0.50
Oct-22	-0.53	-0.52	-0.50
Dec-22	-0.53	-0.51	-0.49
Jan-23	-0.54	-0.50	-0.47
Mar-23	-0.54	-0.50	-0.47
Apr-23	-0.54	-0.49	-0.46
Jun-23	-0.50	-0.47	-0.43
Jul-23	-0.50	-0.45	-0.42
Sep-23	-0.49	-0.45	-0.41
2023Q4	-0.47	-0.42	-0.36
2024Q1	-0.45	-0.39	-0.34
2024Q2	-0.45	-0.35	-0.16
2024Q3	-0.44	-0.25	-0.13
2024Q4	-0.40	-0.17	-0.01
2025Q1	-0.30	-0.10	0.10
2025Q2	-0.21	0.00	0.26
2025Q3	-0.13	0.08	0.37
2025Q4	-0.11	0.08	0.52
2026	0.07	0.35	1.05
2027	0.32	0.83	1.53
2028	0.30	0.85	1.49
2029	0.40	0.85	1.61
Long run	0.85	1.56	1.64

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.OCT21.MEDIAN.GC.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. For the long-run value, select the frequency "A" and select in the date\_desc column the value "long run".

Number of respondents: 21.

### Question 1.5

What is your estimate of the level that the Governing Council would consider as a lower bound for each of the key interest rates?

#### Estimated lower bound for each of the key interest rates

(percentages per annum)

Interest rate	25th percentile	Median	75th percentile
DFR	-1.00	-0.90	-0.70
MRO	-0.10	0.00	0.00
MLF	0.00	0.20	0.25

Note: Cross-sectional distribution.

Series key: SMA.OCT21.MEDIAN\_Z.I.U2.DFR.RATES\_MIN,

SMA.OCT21.MEDIAN\_Z.I.U2.MRO.RATES\_MIN,

SMA.OCT21.MEDIAN\_Z.I.U2.MLF.RATES\_MIN. Replace "MEDIAN" with "P25" or "P75" to obtain the 25th and 75th percentile, respectively.

Number of respondents: DFR: 22; MRO: 20; MLF: 19.

### Question 1.6

Please indicate whether you expect any changes to the two-tier system for reserve remuneration.

(percentages)

	Yes	No
Share of respondents	36.4	63.6

Note: Percentage of respondents.

Series key: SMA.OCT21.PC\_Z.Z.U2.NO.CHANGES\_TIERING,

SMA.OCT21.PC\_Z.Z.U2.YES.CHANGES\_TIERING.

Number of respondents: 22.

### Question 1.7

In the September 2021 Monetary Policy Decisions, the Governing Council stated that it expects the key ECB interest rates "to remain at their present or lower levels until it sees inflation reaching two per cent well ahead of the end of its projection horizon and durably for the rest of the projection horizon, and it judges that realised progress in underlying inflation is sufficiently advanced to be consistent with inflation stabilising at two per cent over the medium term. This may also imply a transitory period in which inflation is moderately above target".

#### Question 1.7.1

Please provide your expectation of the most likely length (i.e. the mode) referred to by "well ahead of the end of its projection horizon".

(number of quarters)

	25th percentile	Median	75th percentile
Length of "well ahead of the end of its projection horizon"	4	6	6

Note: Cross-sectional distribution.

Series key: SMA.OCT21.MEDIAN.Q\_Z.U2\_Z.AHEAD\_OF\_PROJECTION\_HORIZON. Replace "MEDIAN" with "P25" or "P75" to obtain the 25th and 75th percentile, respectively.

Number of respondents: 20.

### Question 1.7.2

Please provide your expectation of the most likely value of underlying inflation (i.e. the mode) referred to by “realised progress in underlying inflation is sufficiently advanced”.

(percentage changes)

	25th percentile	Median	75th percentile
Value of underlying inflation referred to by “realised progress in underlying inflation is sufficiently advanced”	1.7	1.8	1.8

Note: Cross-sectional distribution.

Series key: SMA.OCT21.MEDIAN.Q.Y.U2.\_Z.HICP\_REALISED\_PROGRESS. Replace “MEDIAN” with “P25” or “P75” to obtain the 25th and 75th percentile, respectively.

Number of respondents: 20.

### Question 1.7.3

Please indicate whether you expect any change in the forward guidance on policy rates.

(percentages)

	Yes	No
Share of respondents	28.6	71.4

Note: Percentage of respondents.

Series key: SMA.OCT21.PC.\_Z.\_Z.U2.NO.CHANGES\_FORWARD\_GUIDANCE\_RATES, SMA.OCT21.PC.\_Z.\_Z.U2.YES.CHANGES\_FORWARD\_GUIDANCE\_RATES.

Number of respondents: 21.

If you have indicated “yes”, please provide the date when this change would occur.

(date)

	25th percentile	Median	75th percentile
Date of change in rate forward guidance	Jun-23	Aug-23	Jun-24

Note: Cross-sectional distribution.

Series key: SMA.OCT21.MEDIAN.M.\_Z.U2.\_Z.CHANGES\_FORWARD\_GUIDANCE\_RATES\_DATE. Replace “MEDIAN” with “P25” or “P75” to obtain the 25th and 75th percentile, respectively.

Number of respondents: 6.

## 2 Asset Purchases and Reinvestment

### Question 2.1

In the September 2021 Monetary Policy Decisions, the Governing Council stated that it expects net asset purchases under the asset purchase programme (APP) “to run for as long as necessary to reinforce the accommodative impact of its policy rates, and to end shortly before it starts raising the key ECB interest rates”.

Please provide your expectations of the most likely date (i.e. the mode) of the end of APP net purchases.

(date)

	25th percentile	Median	75th percentile
End date of APP net purchases	Jul-23	Dec-23	Dec-24

Note: Cross-sectional distribution.

Series key: SMA.OCT21.MEDIAN.M.\_Z.U2.\_Z.APP\_END. Replace “MEDIAN” with “P25” or “P75” to obtain the 25th and 75th percentile, respectively.

Number of respondents: 23.

### Question 2.2

In the September 2021 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 starts raising the key ECB interest rates, and in any case for as long as necessary to maintain favourable liquidity conditions and an ample degree of monetary accommodation”.

Please provide your expectations of the most likely date (i.e. the mode) of the end of the reinvestment of the principal payments from maturing securities purchased under the APP.

(date)

	25th percentile	Median	75th percentile
End date of APP full reinvestments	Dec-25	Mar-26	Dec-26

Note: Cross-sectional distribution.

Series key: SMA.OCT21.MEDIAN.M.\_Z.U2.\_Z.APP\_REINVESTMENTS\_END. Replace “MEDIAN” with “P25” or “P75” to obtain the 25th and 75th percentile, respectively.

Number of respondents: 22.

### Question 2.3

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

#### Expectations for the Eurosystem stock of bonds under the APP

(EUR billions)

Date	25th percentile	Median	75th percentile
2021Q4	3287	3287	3287
2022Q1	3347	3347	3348
2022Q2	3452	3467	3497
2022Q3	3535	3587	3604
2022Q4	3617	3677	3724
2023Q1	3635	3767	3812
2023Q2	3649	3827	3872
2023Q3	3692	3887	3932
2023Q4	3726	3905	3962
2024Q1	3675	3927	3947
2024Q2	3675	3927	3984
2024Q3	3675	3927	4014
2024Q4	3675	3927	4014
2025Q1	3731	3929	4027
2025Q2	3701	3929	4027
2025Q3	3671	3929	4027
2025Q4	3650	3929	4027
2026Q1	3630	3917	4164
2026H1	3561	3896	4322
2026H2	3441	3878	4494
2031	1885	2563	3139

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.OCT21.MEDIAN.Q.EUR.U2.\_Z.EUROSYSYSTEM\_APP\_HOLDINGS. Replace "MEDIAN" with "P25" or "P75" to obtain the 25th and 75th percentile, respectively. Choose "Q", "H" or "A" for quarterly, semi-annual or annual frequency, respectively.

Number of respondents: 21.

## Expectations for the Eurosystem stock of bonds under the PEPP

(EUR billions)

Date	25th percentile	Median	75th percentile
2021Q4	1605	1622	1631
2022Q1	1761	1782	1837
2022Q2	1767	1792	1850
2022Q3	1767	1792	1850
2022Q4	1767	1792	1850
2023Q1	1767	1792	1850
2023Q2	1767	1792	1850
2023Q3	1767	1792	1850
2023Q4	1767	1792	1850
2024Q1	1767	1792	1850
2024Q2	1721	1784	1850
2024Q3	1686	1784	1850
2024Q4	1677	1784	1850
2025Q1	1627	1767	1850
2025Q2	1586	1737	1850
2025Q3	1549	1722	1850
2025Q4	1524	1700	1850
2026Q1	1494	1675	1850
2026H1	1447	1605	1850
2026H2	1387	1545	1850
2031	671	1000	1271

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.OCT21.MEDIAN.Q.EUR.U2.\_Z.EUROSYSYEM\_PEPP\_HOLDINGS. Replace "MEDIAN" with "P25" or "P75" to obtain the 25th and 75th percentile, respectively. Choose "Q", "H" or "A" for quarterly, semi-annual or annual frequency, respectively. Number of respondents: 21.

### Question 2.4

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

(percentages)

	Yes	No
Share of respondents	50.0	50.0

Note: Percentage of respondents.

Series Key: SMA.OCT21.PC.\_Z.\_Z.U2.NO.CHANGES\_FORWARD\_GUIDANCE\_REINVESTMENTS, SMA.OCT21.PC.\_Z.\_Z.U2.YES.CHANGES\_FORWARD\_GUIDANCE\_REINVESTMENTS.

Number of respondents: 24.



### Question 2.5

In the September 2021 Monetary Policy Decisions, the Governing Council stated that “if favourable financing conditions can be maintained with asset purchase flows that do not exhaust the envelope over the net purchase horizon of the PEPP, the envelope need not be used in full. Equally, the envelope can be recalibrated if required to maintain favourable financing conditions to help counter the negative pandemic shock to the path of inflation”.

#### Question 2.5.1

What amount of the PEPP envelope of €1,850 billion do you expect to be used by March 2022?

(EUR billions)

	25th percentile	Median	75th percentile
Amount of PEPP envelope to be used by March 2022	1763	1782	1826

Note: Cross-sectional distribution.

Series key: SMA.OCT21.MEDIAN\_Z.EUR.U2\_Z.PEPP\_USED. Replace “MEDIAN” with “P25” or “P75” to obtain the 25th and 75th percentile, respectively.

Number of respondents: 23.

#### Question 2.5.2

If you expect a further recalibration of the PEPP envelope, please provide your expectations of the most likely announcement date and size (i.e. the modes) of the additional envelope. In case you do not expect an increase in the size of the total envelope, please enter “0” for the size of the additional envelope.

Expected size of additional PEPP envelope

(EUR billions)

	25th percentile	Median	75th percentile
Size of additional PEPP envelope	0	0	0

Note: Cross-sectional distribution.

Series key: SMA.OCT21.MEDIAN\_Z.EUR.U2\_Z.PEPP\_RECALIBRATION\_AMOUNT. Replace “MEDIAN” with “P25” or “P75” to obtain the 25th and 75th percentile, respectively.

Number of respondents: 18.

Expected timing of announcement of changes to the forward guidance on the PEPP and reinvestments.

(date)

\*Insufficient number of respondents

### Question 2.6

In the September 2021 Monetary Policy Decisions, the Governing Council stated that it will conduct net asset purchases under the PEPP “until at least the end of March 2022 and, in any case, until it judges that the coronavirus crisis phase is over”. Please provide your expectations of the most likely date (i.e. the mode) of the end of PEPP net asset purchases.

(date)

	25th percentile	Median	75th percentile
End of PEPP net purchases	Mar-22	Mar-22	Mar-22

Note: Cross-sectional distribution.

Series key: SMA.OCT21.MEDIAN.M.\_Z.U2.\_Z.PEPP\_END. Replace “MEDIAN” with “P25” or “P75” to obtain the 25th and 75th percentile, respectively.

Number of respondents: 24.

### Question 2.7

In the September 2021 Monetary Policy Decisions, the Governing Council stated that it “will continue to reinvest the principal payments from maturing securities purchased under the PEPP until at least the end of 2023”. Please provide your expectations of the most likely date (i.e. the mode) of the end of PEPP reinvestments of principal payments.

(date)

	25th percentile	Median	75th percentile
End date of PEPP full reinvestments	Dec-23	Dec-24	Apr-25

Note: Cross-sectional distribution.

Series key: SMA.OCT21.MEDIAN.M.\_Z.U2.\_Z.PEPP\_REINVESTMENTS\_END. Replace “MEDIAN” with “P25” or “P75” to obtain the 25th and 75th percentile, respectively.

Number of respondents: 21.

### Question 2.8

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

(percentages)

	Yes	No
Share of respondents	30.4	69.6

Note: Percentage of respondents.

Series Key: SMA.OCT21.PC.\_Z.\_Z.U2.NO.CHANGES\_FORWARD\_GUIDANCE\_PEPP, SMA.OCT21.PC.\_Z.\_Z.U2.YES.CHANGES\_FORWARD\_GUIDANCE\_PEPP

Number of respondents: 23.

## 3 Refinancing Operations

### Question 3.1

What do you expect to be the take-up under the third series of targeted longer-term refinancing operations (TLTRO III) for each operation and in total (in EUR billions)?

#### Expected take-up under TLTRO III

(EUR billions)

Date	25th percentile	Median	75th percentile
Dec-21	50	50	64
Total take-up (including previous operations)	2337	2337	2351

Note: Cross-sectional distribution.

Series Key: SMA.OCT21.MEDIAN.Q.EUR.U2.\_Z.TLTRO-III\_INDIVIDUAL\_OPERATION,  
SMA.OCT21.MEDIAN.\_Z.EUR.U2.\_Z.TLTRO-III\_TOTAL. Replace "MEDIAN" with "P25" or "P75" to obtain the 25th and 75th  
percentile, respectively.

Number of respondents: 21.

### Question 3.2

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

#### Expected repayments under TLTRO III

(EUR billions)

Date	25th percentile	Median	75th percentile
Sep-21	78	79	79
Dec-21	29	52	176
Mar-22	9	25	105
Jun-22	290	584	800
Sep-22	52	150	228
Dec-22	71	200	301
Mar-23	72	150	202
Jun-23	135	365	665
Sep-23	101	137	174
Dec-23	57	75	150
Mar-24	107	142	202
Jun-24	49	68	103
Sep-24	33	50	89
Dec-24	17	33	47
<b>Total repaid amount (including all operations)</b>	2330	2337	2347

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.OCT21.MEDIAN.Q.EUR.U2.\_Z.REPAYMENTS\_INDIVIDUAL\_OPERATION, SMA.OCT21.MEDIAN.\_Z.EUR.U2.\_Z.REPAYMENTS\_TOTAL. Replace "MEDIAN" with "P25" or "P75" to obtain the 25th and 75th percentile, respectively.

Number of respondents: 17.

### Question 3.3

What do you expect to be the take-up under the pandemic emergency longer-term refinancing operations (PELTRO) for each operation, and in total (in EUR billions)?

#### Expected take-up under PELTRO

(EUR billions)

Date	25th percentile	Median	75th percentile
Dec-21	1	1	2
<b>Total take-up (including previous operations)</b>	29	30	30

Note: Cross-sectional distribution.

Series Key: SMA.OCT21.MEDIAN.Q.EUR.U2.\_Z.PELTRO\_INDIVIDUAL\_OPERATION, SMA.OCT21.MEDIAN.\_Z.EUR.U2.\_Z.PELTRO\_TOTAL. Replace "MEDIAN" with "P25" or "P75" to obtain the 25th and 75th percentile, respectively.

Number of respondents: 18.

## 4 Macroeconomic Outlook

### Question 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)

Date	25th percentile	Median	75th percentile
2021Q3	1.8	2.0	2.2
2021Q4	0.8	1.1	1.3
2022Q1	0.8	0.9	1.0
2022Q2	0.7	0.8	1.0
2022Q3	0.6	0.8	0.9
2022Q4	0.5	0.6	0.7
2023Q1	0.4	0.5	0.5
2023Q2	0.4	0.4	0.5
2023Q3	0.3	0.4	0.5
2023Q4	0.3	0.4	0.5
2024Q1	0.3	0.4	0.4
2024Q2	0.3	0.4	0.4
2024Q3	0.3	0.4	0.4
2024Q4	0.3	0.3	0.4
2025Q1	0.3	0.4	0.4
2025Q2	0.3	0.3	0.4
2025Q3	0.3	0.4	0.4
2025Q4	0.3	0.3	0.4
2026Q1	0.3	0.3	0.3
2026Q2	0.3	0.3	0.3
2026Q3	0.3	0.3	0.3
2026Q4	0.3	0.3	0.3
2027Q1	0.3	0.3	0.4
2027Q2	0.3	0.3	0.4
2027Q3	0.3	0.3	0.4
2027Q4	0.3	0.3	0.4
2028Q1	0.3	0.3	0.4
2028Q2	0.3	0.3	0.4
2028Q3	0.3	0.3	0.4
2028Q4	0.3	0.3	0.4
Long run	1.2	1.3	1.5

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 is the maximum number of respondents for a given date, which is not necessarily the same for each date.

Series Key: SMA.OCT21.MEDIAN.Q.Q.U2.\_Z.YER (quarterly data) and SMA.OCT21.MEDIAN.A.Y.U2.\_Z.YER (long run). In addition, select in the date\_desc column the value "long run". Replace "MEDIAN" with "P25" or "P75" to obtain the 25th and 75th percentile, respectively.

Number of respondents: 23.

## Expectations for the unemployment rate

(percentage rate)

Date	25th percentile	Median	75th percentile
2021Q3	7.5	7.6	7.9
2021Q4	7.5	7.6	7.8
2022Q1	7.4	7.7	7.8
2022Q2	7.3	7.6	7.8
2022Q3	7.3	7.5	7.7
2022Q4	7.2	7.4	7.6
2023Q1	7.2	7.4	7.6
2023Q2	7.1	7.3	7.6
2023Q3	7.1	7.3	7.5
2023Q4	7.1	7.3	7.4
2024Q1	7.0	7.2	7.4
2024Q2	6.8	7.1	7.4
2024Q3	6.8	7.1	7.3
2024Q4	6.8	7.1	7.3
2025Q1	6.8	7.1	7.2
2025Q2	6.8	7.0	7.2
2025Q3	6.7	7.2	7.3
2025Q4	6.6	7.1	7.4
2026Q1	6.9	7.2	7.5
2026Q2	6.8	7.2	7.5
2026Q3	6.8	7.1	7.5
2026Q4	6.8	7.0	7.5
2027Q1	6.6	7.1	7.4
2027Q2	6.6	6.9	7.3
2027Q3	6.6	7.0	7.3
2027Q4	6.6	7.0	7.2
2028Q1	6.6	7.1	7.2
2028Q2	6.7	7.1	7.2
2028Q3	6.6	7.1	7.4
2028Q4	6.6	7.0	7.4
Long run	7.0	7.2	7.5

Note: Cross-sectional distribution. Quarterly average and seasonally adjusted. 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.OCT21.MEDIAN.Q.PC.U2.\_Z.URX (quarterly data) and SMA.OCT21.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 respondents: 21.

## Expectations for HICP inflation

(percentage change)

Date	25th percentile	Median	75th percentile
2021Q4	3.3	3.6	3.9
2022Q1	2.3	2.7	2.8
2022Q2	2.1	2.4	2.6
2022Q3	1.5	1.6	1.9
2022Q4	1.1	1.4	1.6
2023Q1	1.3	1.5	1.7
2023Q2	1.4	1.6	1.7
2023Q3	1.5	1.6	1.8
2023Q4	1.5	1.7	1.8
2024Q1	1.6	1.7	1.9
2024Q2	1.6	1.7	1.9
2024Q3	1.5	1.8	2.0
2024Q4	1.5	1.8	2.0
2025Q1	1.6	1.9	2.0
2025Q2	1.6	1.9	2.0
2025Q3	1.7	1.9	2.0
2025Q4	1.8	1.9	2.0
2026Q1	1.7	2.0	2.0
2026Q2	1.7	2.0	2.0
2026Q3	1.7	2.0	2.0
2026Q4	1.7	2.0	2.1
2027Q1	1.6	2.0	2.1
2027Q2	1.6	2.0	2.1
2027Q3	1.6	2.0	2.0
2027Q4	1.6	2.0	2.0
2028Q1	1.6	2.0	2.0
2028Q2	1.6	2.0	2.1
2028Q3	1.6	1.9	2.0
2028Q4	1.6	1.9	2.0
Long run	1.7	1.9	2.0

Note: Cross-sectional distribution. Year-on-year change. 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.OCT21.MEDIAN.Q.Y.U2.\_Z.HIC (quarterly data) and SMA.OCT21.MEDIAN.A.Y.U2.\_Z.HIC (long run). In addition, select in the date\_desc column the value "long run". Replace "MEDIAN" with "P25" or "P75" to obtain the 25th and 75th percentile, respectively.

Number of respondents: 23.

## Expectations for HICP inflation excluding food and energy

(percentage change)

Date	25th percentile	Median	75th percentile
2021Q4	1.9	1.9	2.1
2022Q1	1.3	1.5	1.7
2022Q2	1.6	1.7	1.8
2022Q3	1.3	1.4	1.6
2022Q4	1.2	1.3	1.6
2023Q1	1.2	1.4	1.5
2023Q2	1.3	1.4	1.6
2023Q3	1.4	1.5	1.7
2023Q4	1.4	1.5	1.7
2024Q1	1.4	1.5	1.7
2024Q2	1.4	1.5	1.8
2024Q3	1.4	1.6	1.8
2024Q4	1.5	1.7	1.8
2025Q1	1.5	1.7	1.8
2025Q2	1.5	1.7	1.8
2025Q3	1.5	1.7	1.9
2025Q4	1.5	1.7	1.9
2026Q1	1.4	1.8	2.0
2026Q2	1.4	1.8	1.9
2026Q3	1.4	1.8	1.9
2026Q4	1.5	1.8	1.9
2027Q1	1.4	1.8	1.8
2027Q2	1.5	1.8	1.8
2027Q3	1.5	1.8	1.9
2027Q4	1.5	1.8	1.8
2028Q1	1.5	1.8	1.8
2028Q2	1.5	1.8	1.8
2028Q3	1.5	1.8	1.8
2028Q4	1.5	1.8	1.8
Long run	1.5	1.8	2.0

Note: Cross-sectional distribution. Year-on-year change. 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.OCT21.MEDIAN.Q.Y.U2.\_Z.HEF (quarterly data) and SMA.OCT21.MEDIAN.A.Y.U2.\_Z.HEF (long run). In addition, select in the date\_desc column the value "long run". Replace "MEDIAN" with "P25" or "P75" to obtain the 25th and 75th percentile, respectively.  
Number of respondents: 23.



### Question 4.2

Please indicate your estimate of the most likely value (i.e. the mode) for the following indicators during the quarter of the next increase in key interest rates.

#### Expected value during the quarter of the next increase in key interest rates

(percentage change, percentage rate for unemployment)

Variable	25th percentile	Median	75th percentile
Real GDP growth	1.3	1.6	2.0
Unemployment rate	6.9	7.1	7.2
Headline inflation	1.7	1.9	2.0
Inflation excluding food and energy	1.7	1.8	1.8

Note: Cross-sectional distribution. Real GDP growth is year-on-year growth, the unemployment rate is the seasonally adjusted quarterly average, and HICP inflation and HICP inflation excluding food and energy are quarterly average year-on-year changes. Series key: SMA.OCT21.MEDIAN.Q.Y.U2.\_Z.YER\_MACRO\_RATES\_INCREASE, SMA.OCT21.MEDIAN.Q.PC.U2.\_Z.URX\_MACRO\_RATES\_INCREASE, SMA.OCT21.MEDIAN.Q.Y.U2.\_Z.HIC\_MACRO\_RATES\_INCREASE, SMA.OCT21.MEDIAN.Q.Y.U2.\_Z.HEF\_MACRO\_RATES\_INCREASE. Replace "MEDIAN" with "P25" or "P75" to obtain the 25th and 75th percentile, respectively. Number of respondents: real GDP growth: 16, unemployment rate: 13, HICP inflation: 15, HICP inflation excluding food and energy: 15.

### Question 4.3

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

(percentages)

	< 0	0 to 0.2	0.3 to 0.5	0.6 to 0.8	0.9 to 1.1	1.2 to 1.4	1.5 to 1.7	1.8 to 2	2.1 to 2.3	2.4 to 2.6	2.7 to 2.9	3 to 3.2	3.3 to 3.5	3.6 to 3.8	> 3.9
Average probability	0.1	0.1	0.9	2.3	5.9	13.0	24.9	27.7	15.1	4.8	2.6	1.2	0.7	0.6	0.1

Note: Average probability distribution. Percentages may not add up to 100 due to rounding. Series key: SMA.OCT21.MEAN.M.PR.U2.BIN.HIC\_LR\_DISTRIBUTION. "BIN" is a placeholder to be replaced with the centre of each bin [-0.2, 0.1, 0.4, 0.7, 1, 1.3, 1.6, 1.9, 2.2, 2.5, 2.8, 3.1, 3.4, 3.7, 4]. Number of respondents: 20.

### Question 4.4

How do you assess the balance of risks surrounding your projections for euro area growth and inflation?

#### Risks surrounding the euro area growth outlook

(percentages)

Date	Downside	Balanced	Upside
2021	38.1	57.1	4.8
2022	33.3	66.7	0.0
2023	5.3	84.2	10.5

Note: Percentage of respondents. Percentages may not add up to 100 due to rounding. 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.OCT21.PC.A.\_Z.U2.DOWNSIDE.YER\_RISKS, SMA.OCT21.PC.A.\_Z.U2.BALANCED.YER\_RISKS, SMA.OCT21.PC.A.\_Z.U2.UPSIDE.YER\_RISKS.

Number of respondents: 21.

## Risks surrounding the euro area inflation outlook

(percentages)

Date	Downside	Balanced	Upside
2021	0.0	23.8	76.2
2022	0.0	23.8	76.2
2023	5.3	57.9	36.8

Note: Percentage of respondents. Percentages may not add up to 100 due to rounding. 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.OCT21.PC.A.\_Z.U2.DOWNSIDE.HIC\_RISKS,

SMA.OCT21.PC.A.\_Z.U2.BALANCED.HIC\_RISKS,

SMA.OCT21.PC.A.\_Z.U2.UPSIDE.HIC\_RISKS.

Number of respondents: 21.

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