

BAROMETER 2023

THE PERCEPTION OF RISK
AND SECURITY IN FRANCE

ALL THE CHARTS



OBJECTIVES

Through annual surveys, IRSN follows the opinion of the French regarding risks, including nuclear and radiological risks. The results are shown in the "IRSN Barometer on the perception of risks and security in France" which was created in 1990 in its current form. The yearly results of the surveys give access to long term trends and a hierarchy of the French's main concerns and perceptions of risks affecting their quality of life. The current form of the Barometer also provides a general outlook on the French's opinion on science, expertise and nuclear safety.

METHODOLOGY OF THE SURVEY

The 2023 edition of the IRSN Barometer displays the results of a survey carried out online from November 23rd to November 30th 2022. Altogether, 2014 individuals aged 18 years and above participated in the survey. The representativity of the sample is assured by quotas (sex, age, social and professional category) and stratification by region and size of the urban area of residence. For the third year, the survey was carried out online. From 1990 to 2019, respondents were interviewed at home and the sample size was of 1000 individuals. In 2020, during the transition to an online survey, both methods were applied simultaneously in order to check for biases, so that they could be taken into account during the analysis of long-term trends. The results of both surveys are available in open access on the website of the IRSN Barometer: <https://barometre.irsn.fr>

AUTHORS

Hugo LUTUN • Risk perception and Strategic foresight officer (DST/SP³In).

THIERRY BOURGOIS • Head of the Programming, Partnerships, Prospective, and Innovation Support Service (DST/SP³In).

KEY

In the graphs of the IRSN 2023 Barometer:

.....

Means the question was withdrawn this specific year



IRSN BAROMETER 2023



PAGES 4 – 17
The current concerns of the French



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The outlook of the French on science
and expertise



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The French and risk situations



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The opinion of the French on nuclear matters
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PART 1

THE CURRENT CONCERNS OF THE FRENCH

5 – 11

Main concerns of the French

12 – 13

Main environmental concerns of the French

14 – 17

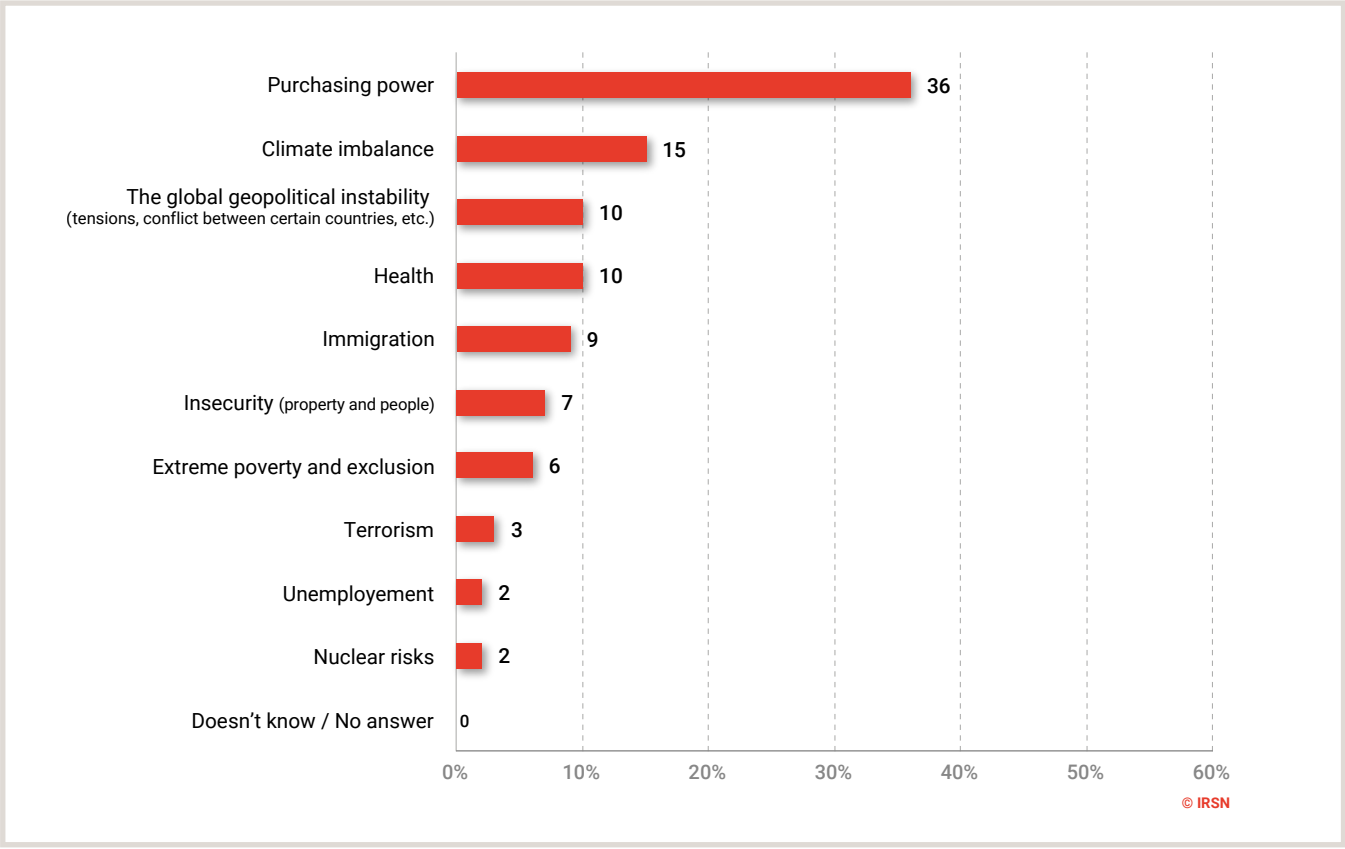
The French perception of disasters

QUESTION
No.1

In France, which of the following current issues
do you find most concerning? First? Second?

→ NOVEMBER 2022 (IN %)

1 – First

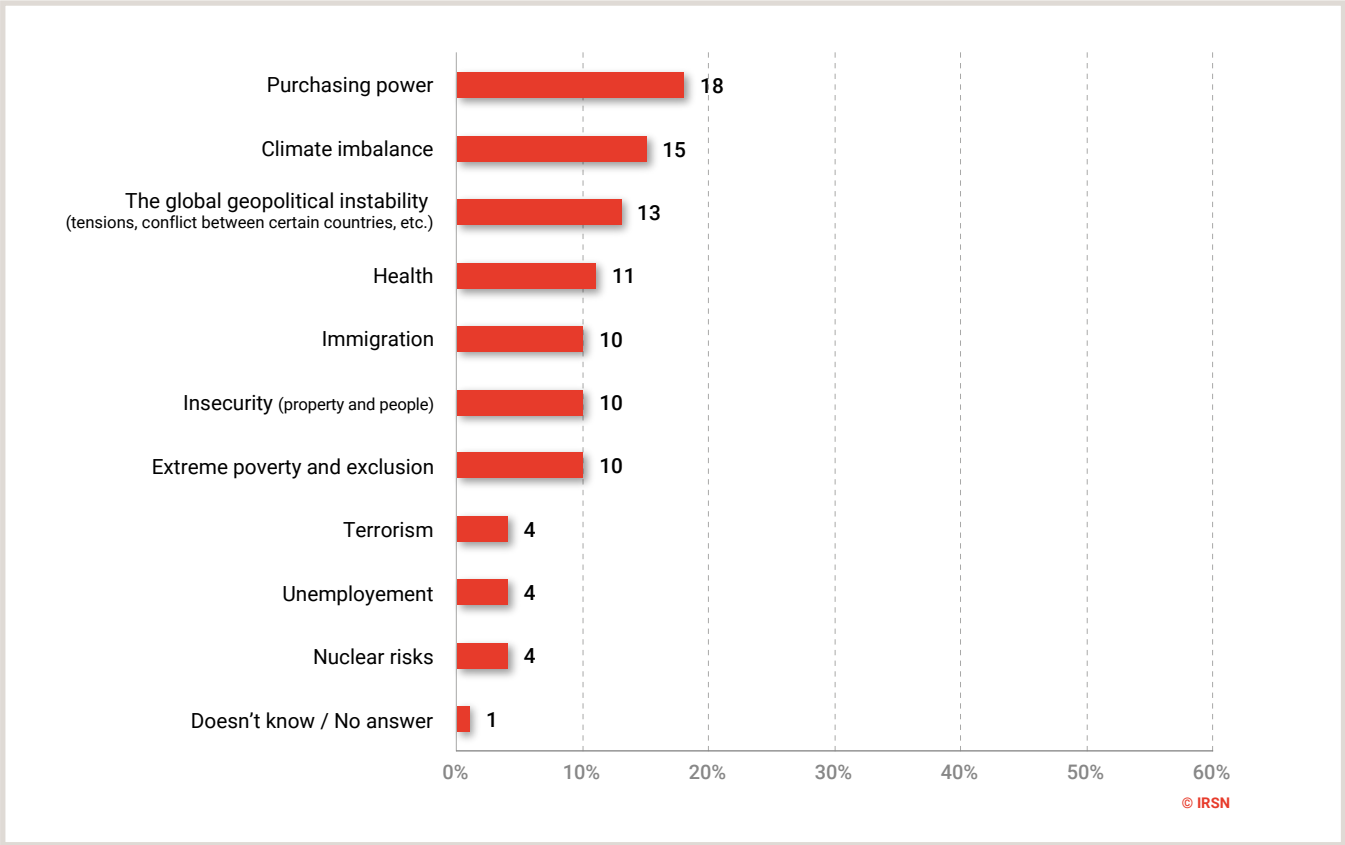


QUESTION
No.1
(CONT.)

In France, which of the following current issues
do you find most concerning? First? Second?

→ NOVEMBER 2022 (IN %)

2 – Second

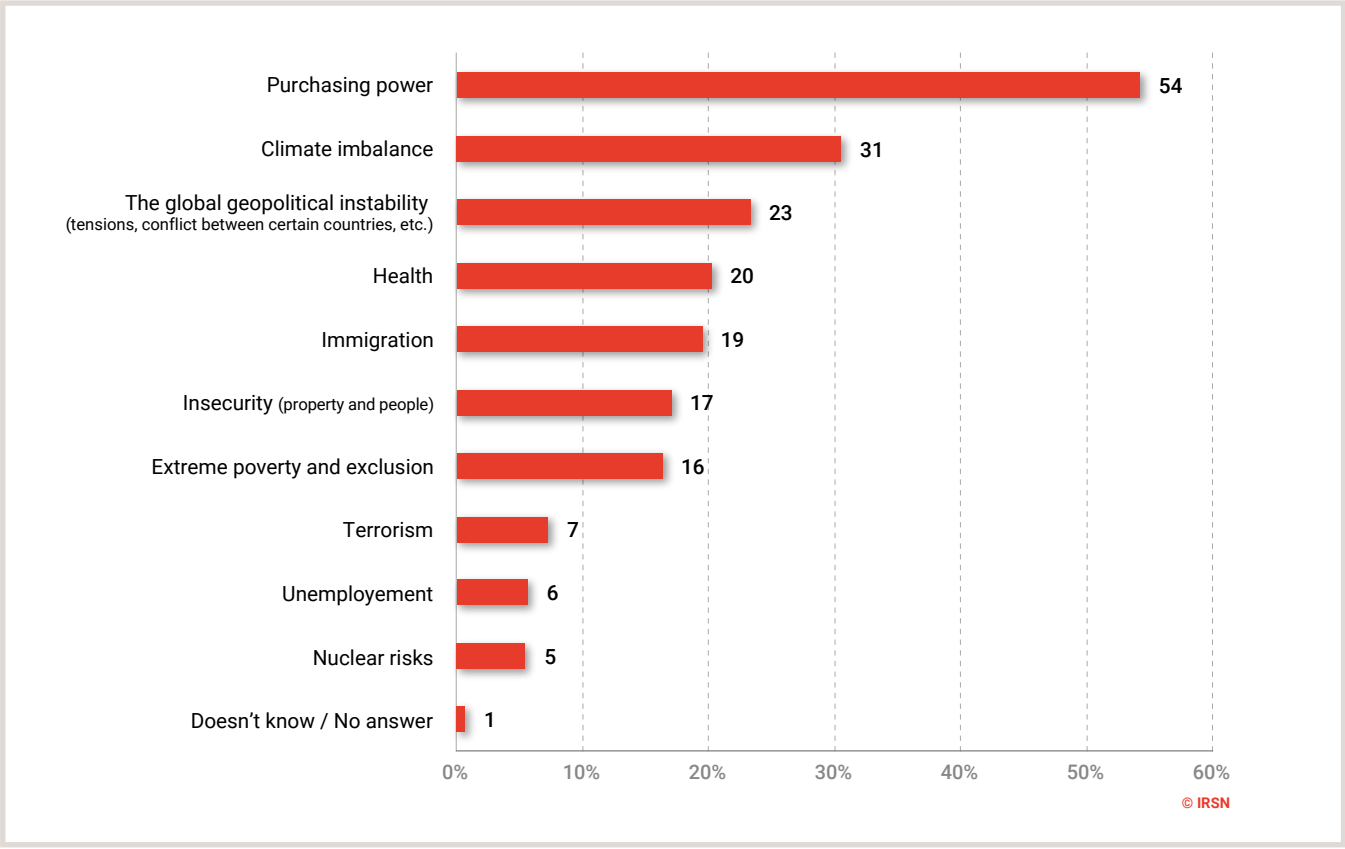


QUESTION
No.1
(CONT.)

In France, which of the following current issues
do you find most concerning? First? Second?

→ NOVEMBER 2022 (IN %)

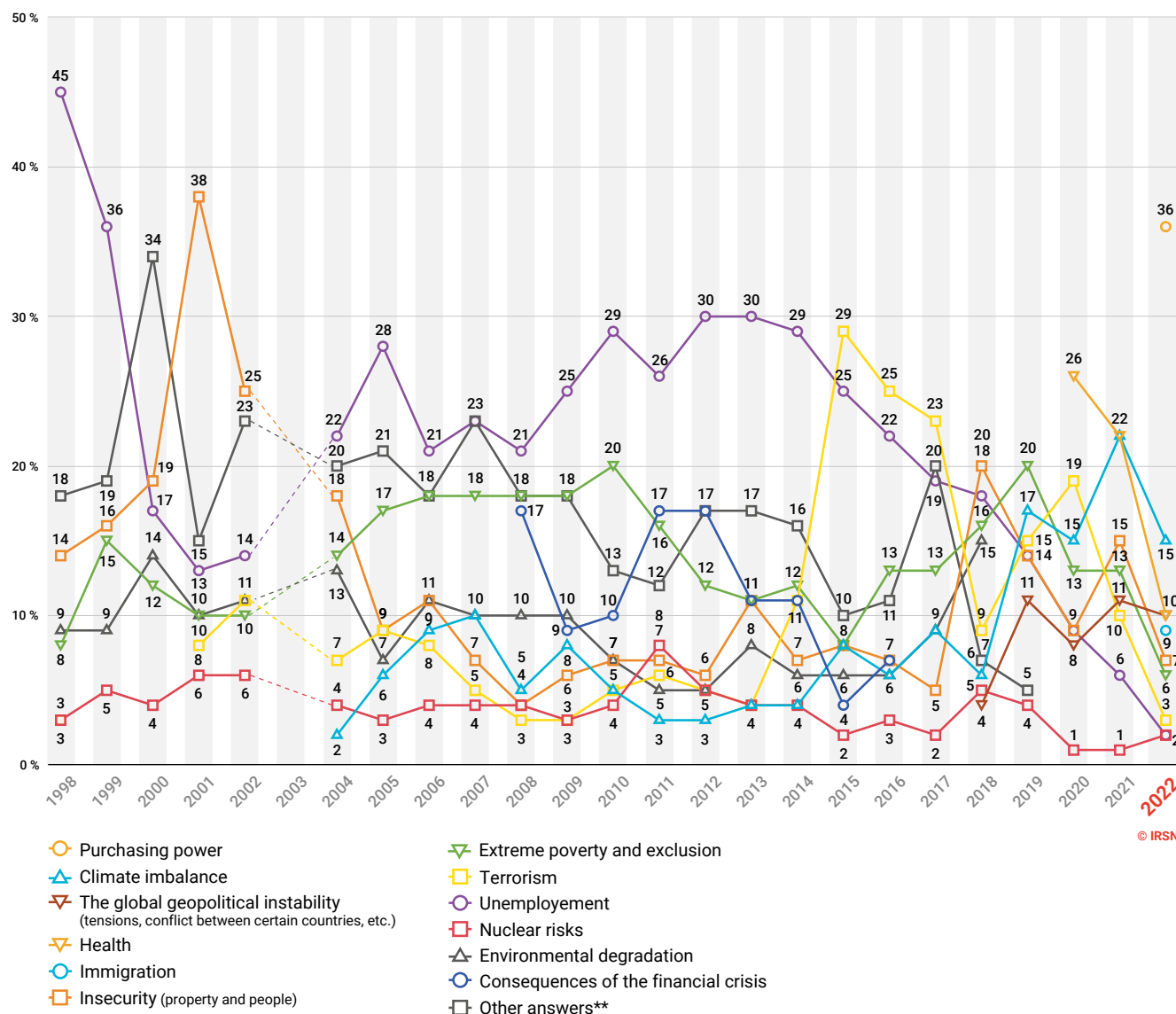
3 – Cumulative results



QUESTION No.1 (CONT.)

In France, which of the following current issues do you find most concerning?

→ EVOLUTION OF THE RESULTS 1998-2022* (IN %)



The proposed answers have changed over the years. In 2002, "the lack of security" replaced "violence in the suburbs". In 2018, the modality "destitution and exclusion" was replaced by "extreme poverty and exclusion". In 2019, the modality "climate change" was replaced by "climate imbalance" and the modality "Insecurity" was replaced by "Insecurity (property and people)"; the answers "environmental degradation", "traffic accidents", "AIDS", "floods", "chemical risk", "The quality of medical care" and "substance abuse (drugs, alcohol, Smoking)" were removed. In 2020, the modality "health" was added. In 2022, the answer "the global geopolitical instability (migrant crisis, tensions between certain countries, etc.)" was replaced by "the global geopolitical instability (tensions, conflicts between certain countries, etc.)"; the answers "Purchasing Power" and "Immigration" were added.

* The proposed evolution results represent the answers given "first".

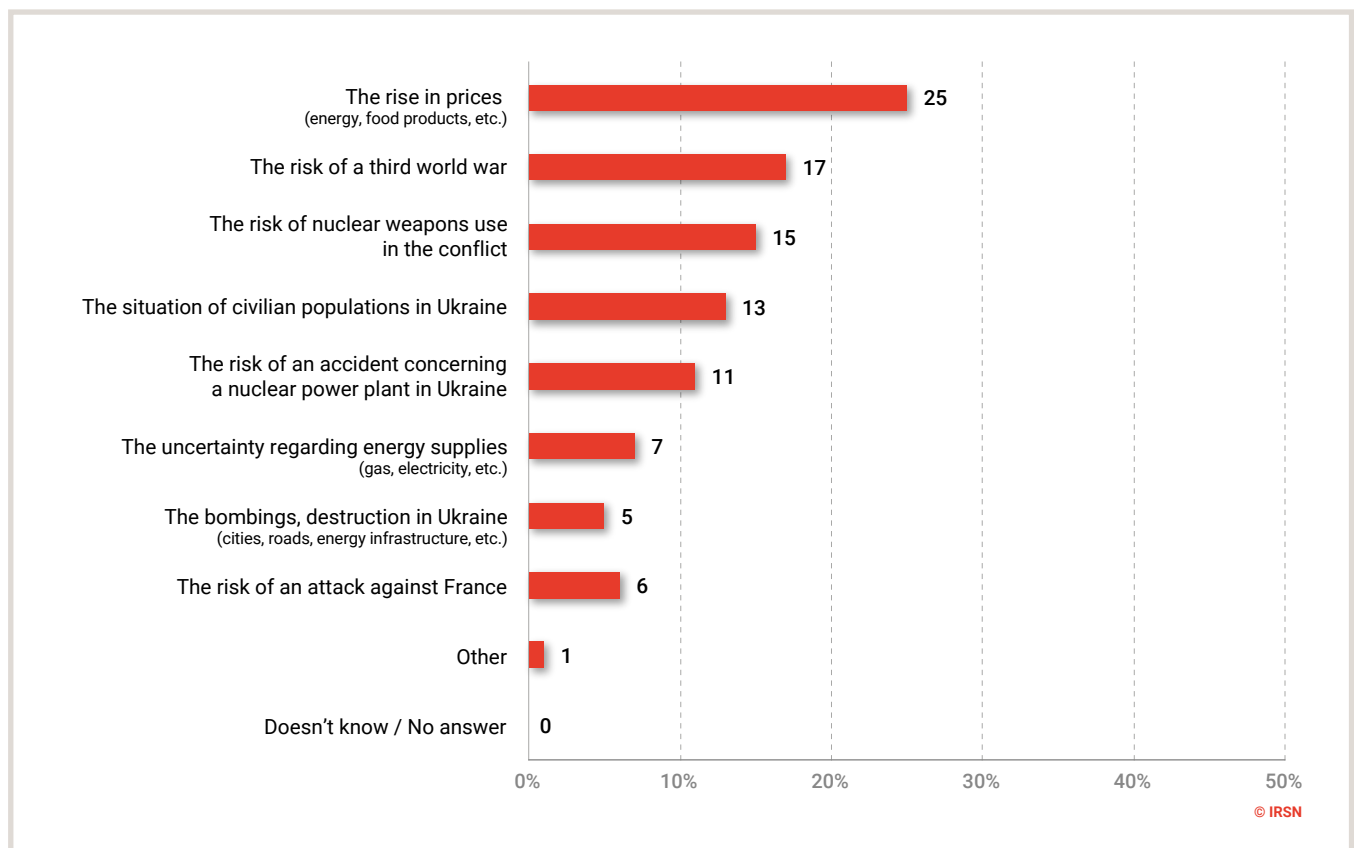
** The "other answers" curve groups together the responses did not represent this year but proposed in previous years, for example: "too high taxation" at 10% in 2000, or "influenza A (H1N1)" at 4% in 2009.

QUESTION No. 2

In the current context of the war in Ukraine, which of the following issues do you find most concerning? First? Second?

→ NOVEMBER 2022 (IN %)

1 – First

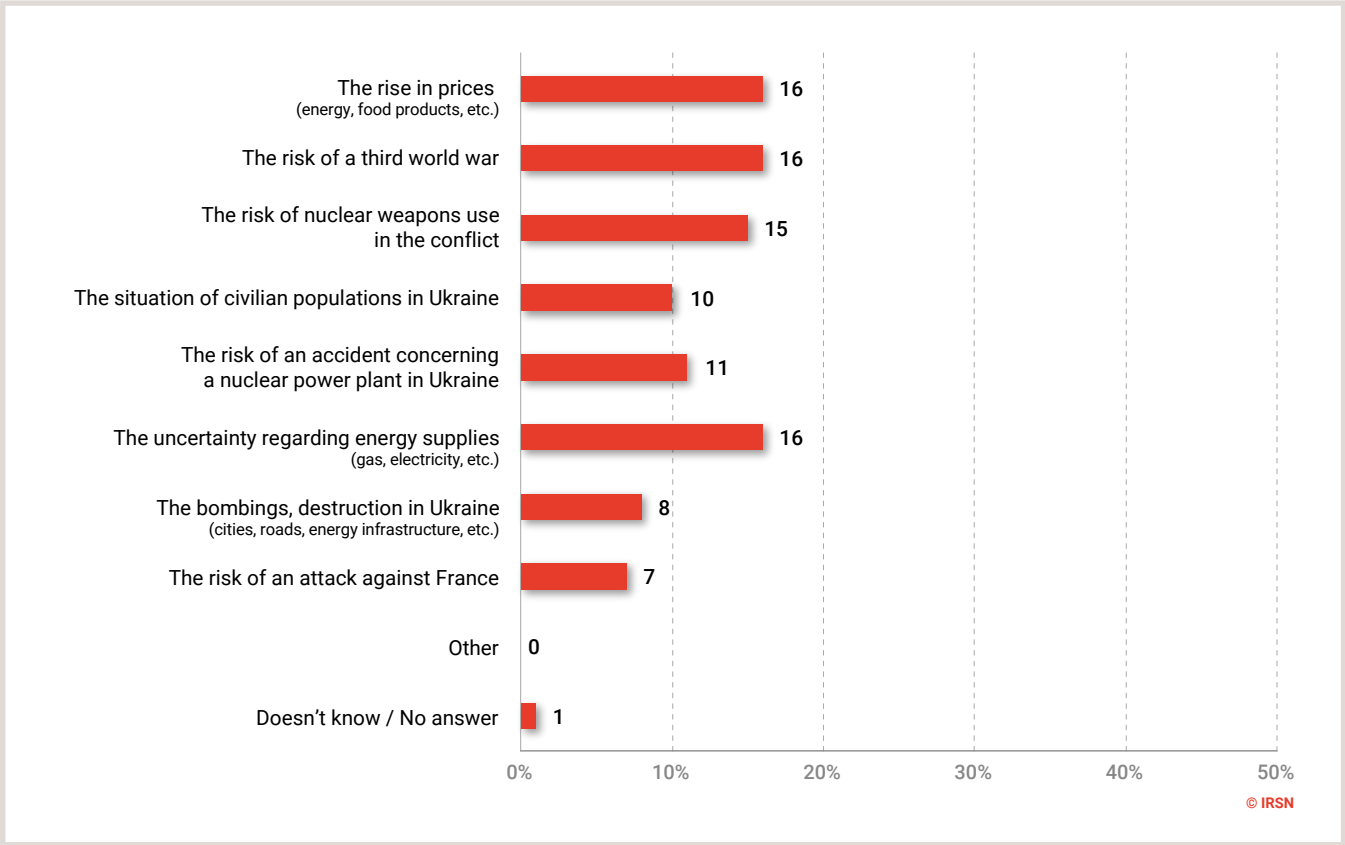


QUESTION
No.2
(CONT.)

In the current context of the war in Ukraine, which of the following issues do you find most concerning?
First? Second?

→ NOVEMBER 2022 (IN %)

2 – Second

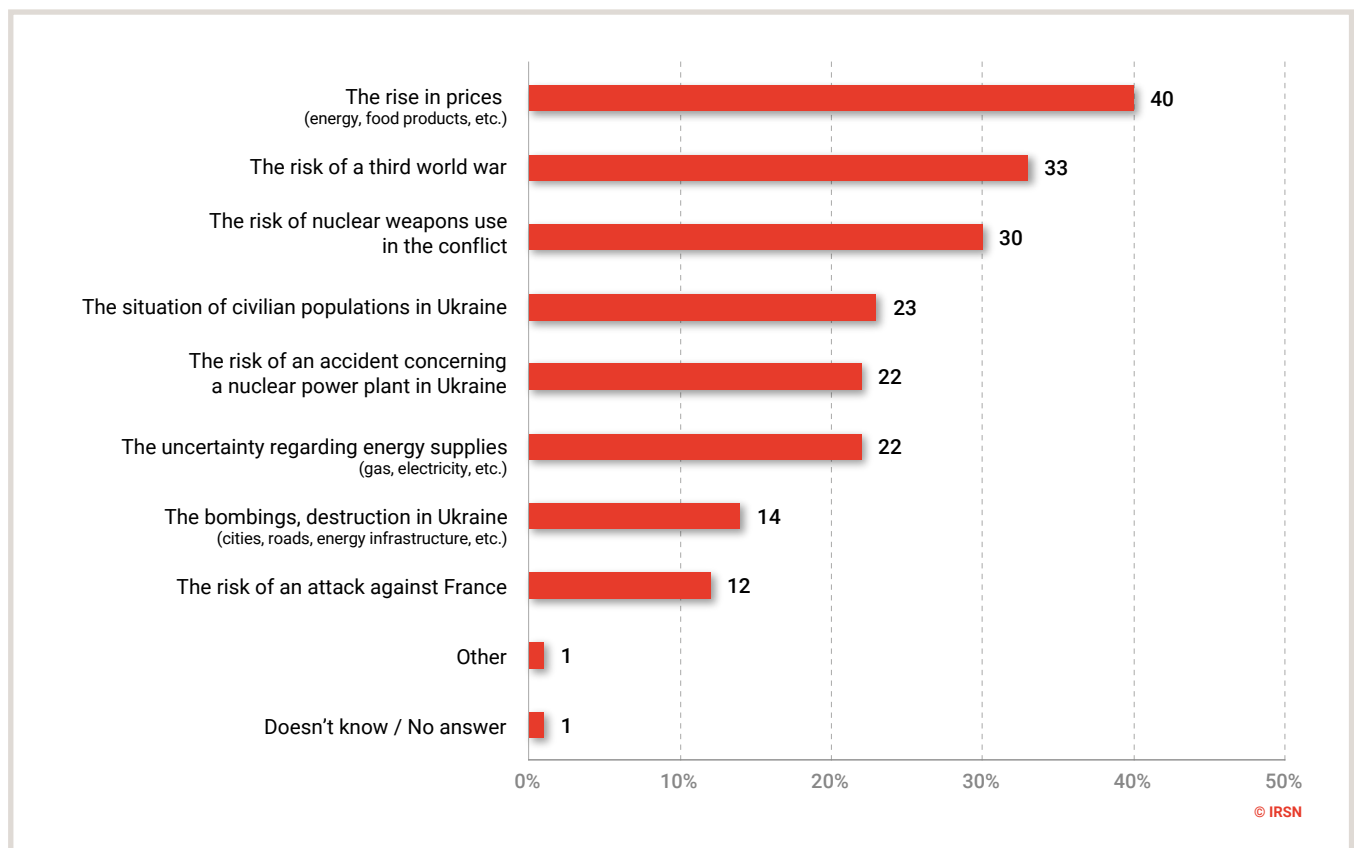


QUESTION
No.2
(CONT.)

In the current context of the war in Ukraine, which of the following issues do you find most concerning?
First? Second?

→ NOVEMBER 2022 (IN %)

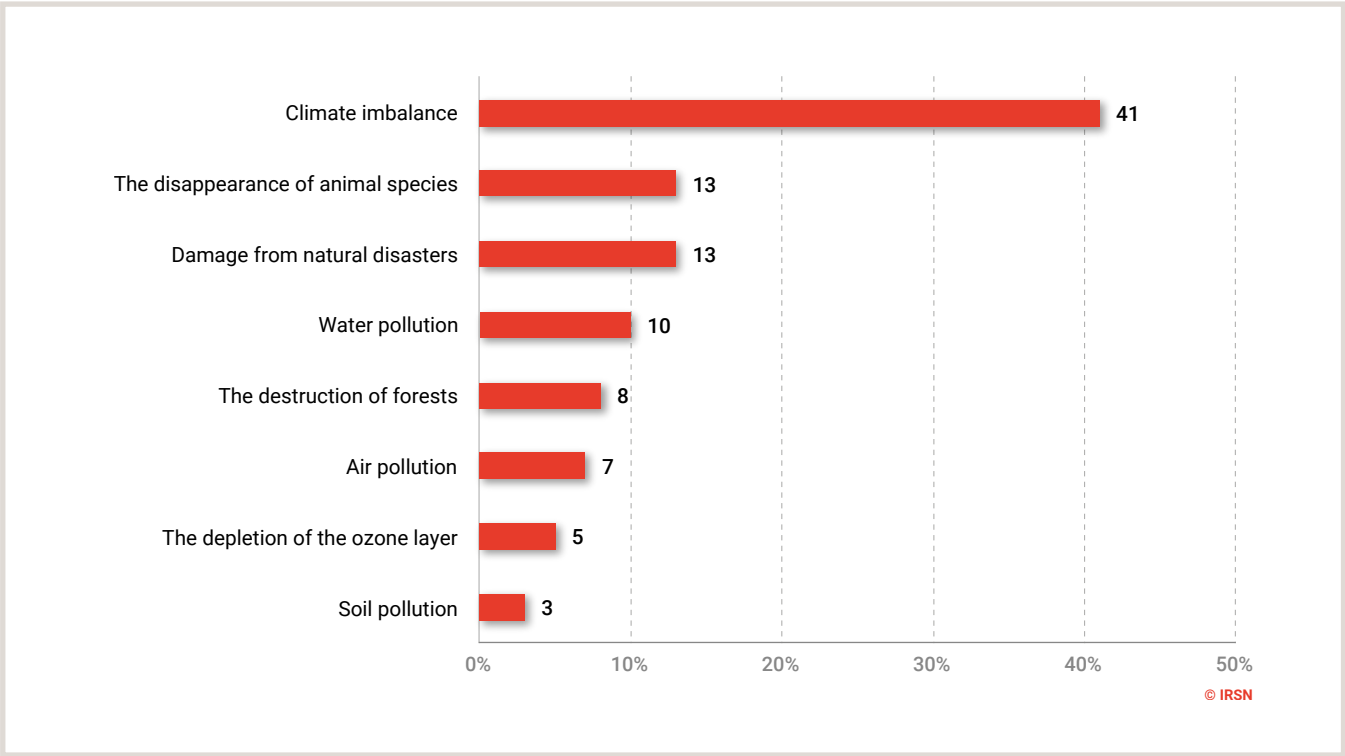
3 – Cumulative results



QUESTION
No.3

Here are a number of environmental issues.
Which one do you find most concerning?

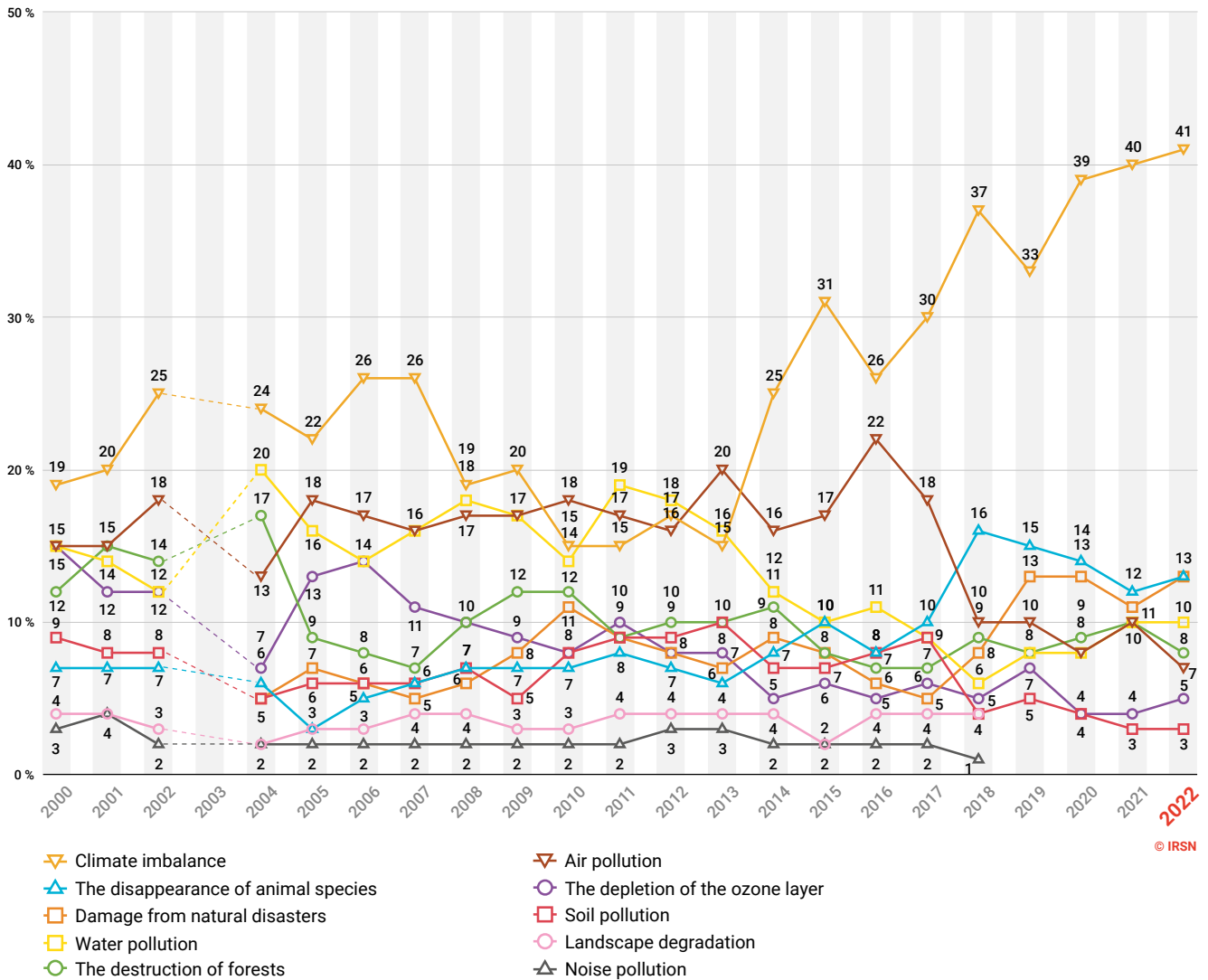
→ NOVEMBER 2022 (IN %)



QUESTION No. 3 (CONT.)

Here are a number of environmental issues.
Which one do you find most concerning?

→ EVOLUTION OF THE RESULTS 2000-2022 (IN %)



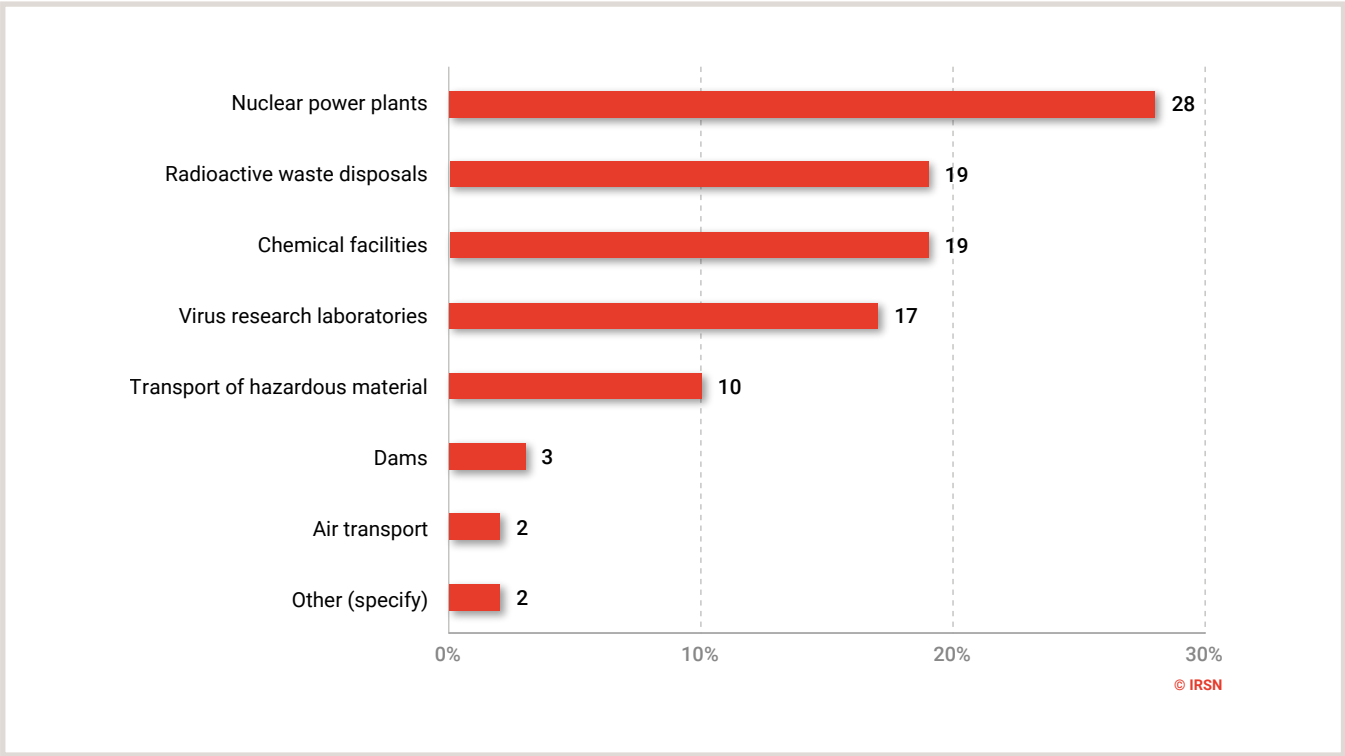
© IRSN

Some of the proposed answers have changed over the years. In 2002, "Air pollution" replaced "Air pollution in urban areas" and "Greenhouse effect (atmospheric warming)" replaced "atmospheric warming". In 2004, "Water pollution" replaced "Pollution of lakes, rivers and seas". In 2014, "Global warming" replaced "Greenhouse effect (atmospheric warming)". In 2019, "noise pollution" and "landscape degradation" were removed. The modality "Global warming" was replaced by "Climate imbalance".

QUESTION
No. 4

Which of the following industrial or technological activities do you think is most likely to cause a serious accident or a disaster in France? (one answer only)

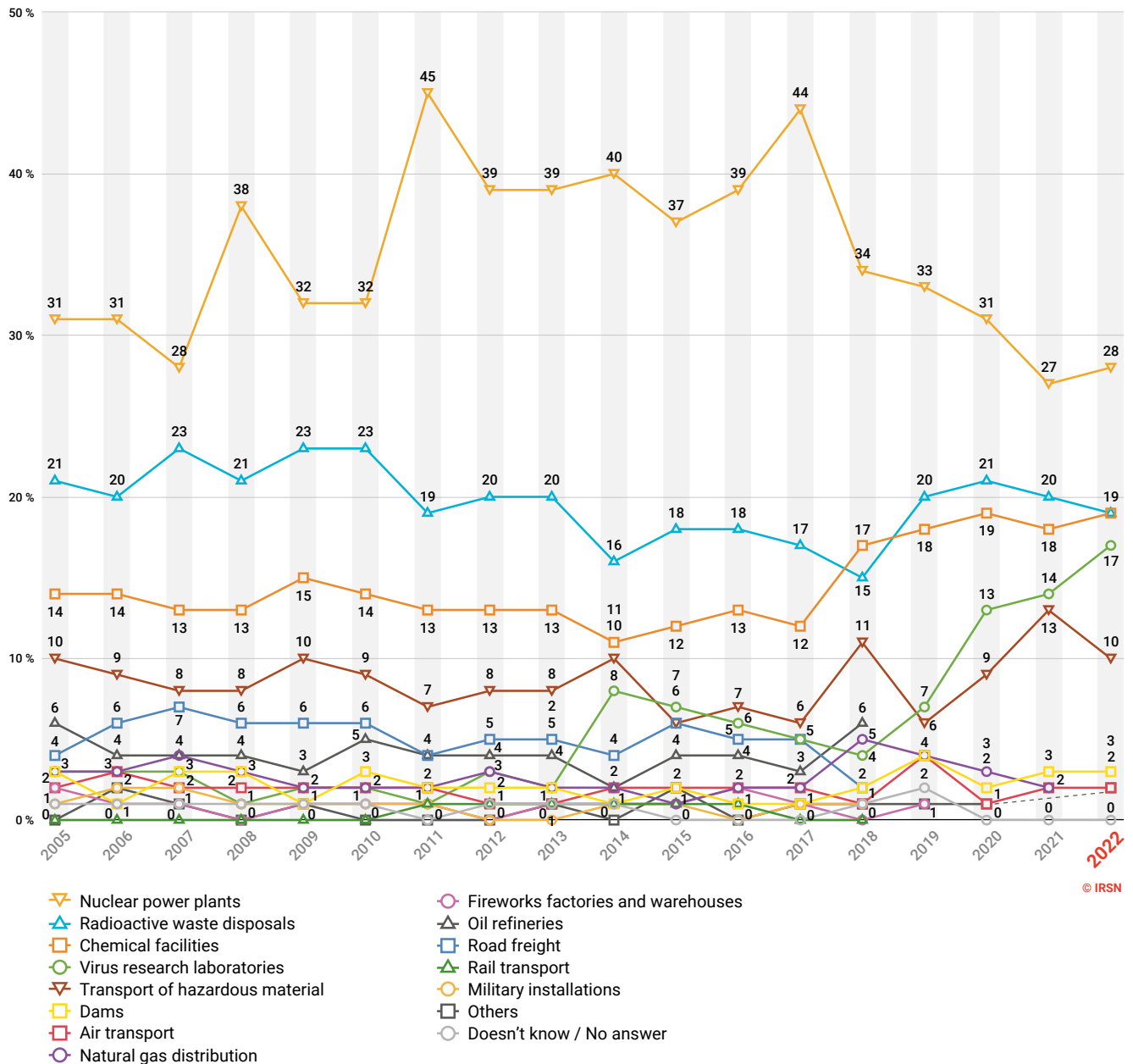
→ NOVEMBER 2022 (IN %)



QUESTION No. 4 (CONT.)

Which of the following industrial or technological activities do you think is most likely to cause a serious accident or a disaster in France? (one answer only)

→ EVOLUTION OF THE RESULTS 2005-2022 (IN %)

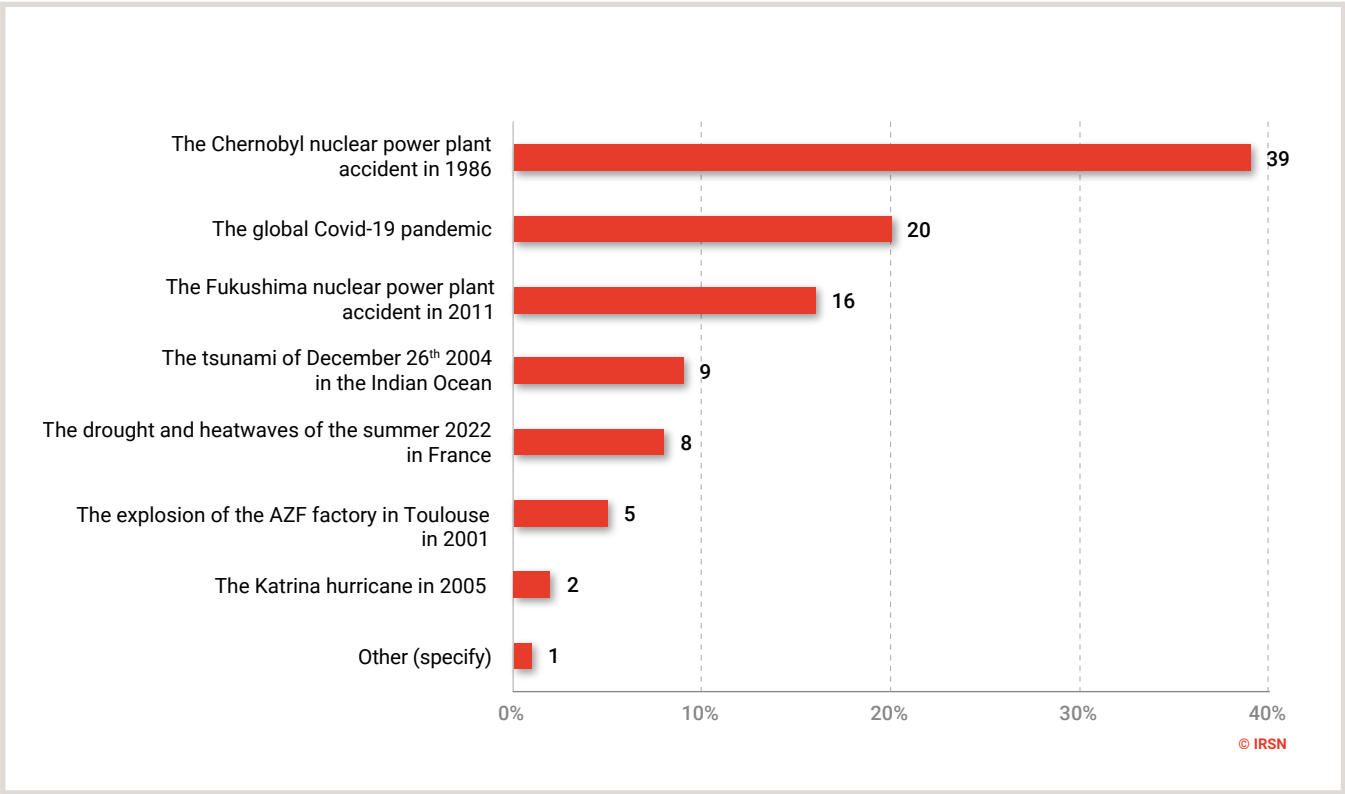


The proposed list of answers has evolved over the years. "Oil refineries", "Road freight", "Rail transport" and "Military installations" were removed in 2019, followed by "Fireworks factories and warehouses" in 2020. In 2022, the answer "Natural gas distribution" was removed.

QUESTION
No.5

Which of the following catastrophic events
do you find most frightening?

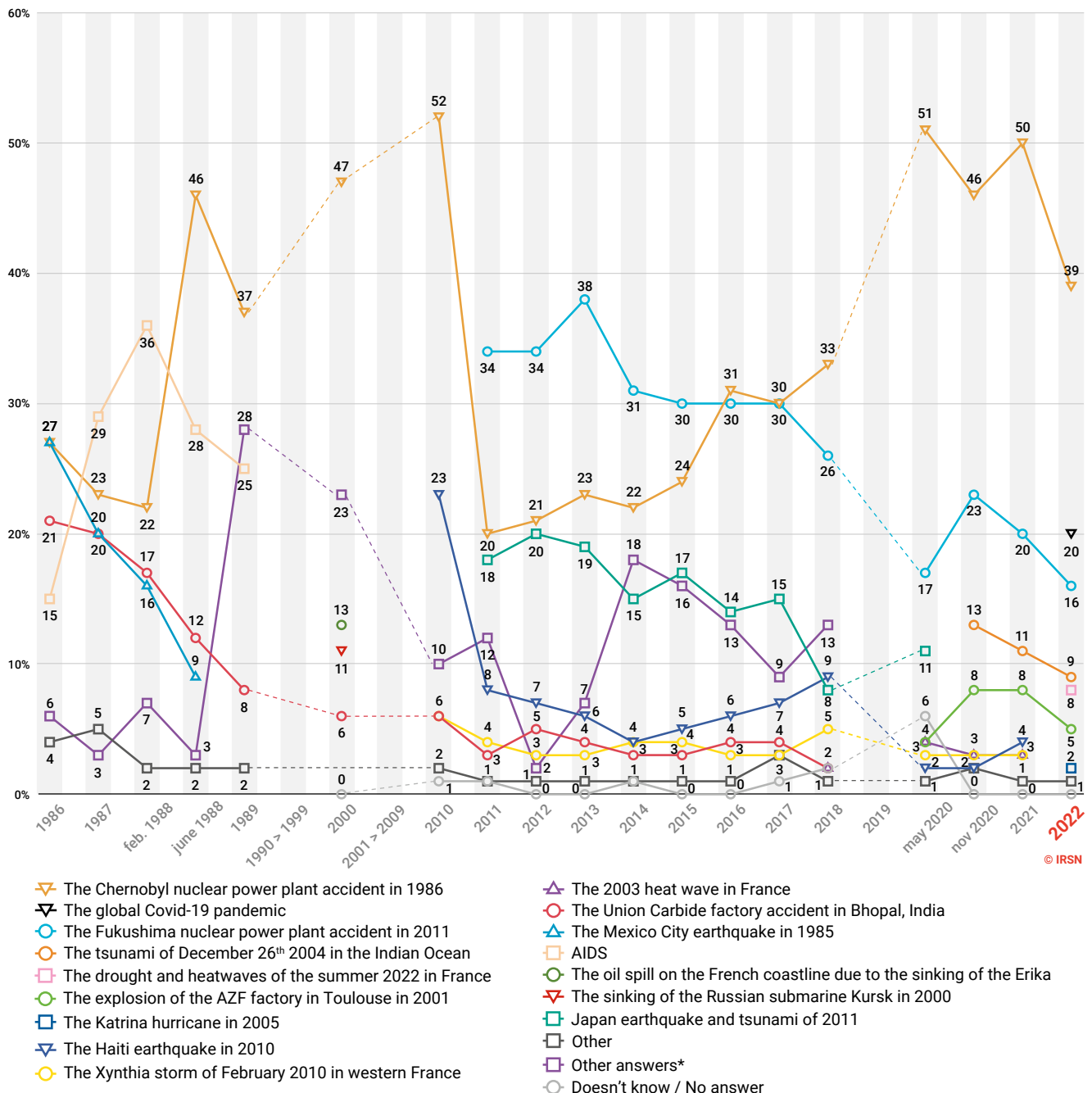
→ NOVEMBER 2022 (IN %)



QUESTION No.5 (CONT.)

Which of the following catastrophic events
do you find most frightening?

→ EVOLUTION OF THE RESULTS 1986-2022 (IN %)



In 2020, the answer "Hurricane Katrina in New Orleans in 2005" has been removed. Previously, in 2019, "Heatwaves (France, Sweden, Japan in the summer of 2018)" was replaced by "The 2003 heat wave in France" and "Earthquakes (Haiti in 2010, Nepal in 2015, Philippines and Indonesia in autumn 2018)" was replaced by "The Haiti earthquake in 2010". In 2022, the answers "The Haiti earthquake in 2010", "The Xynthia storm of February 2010 in western France", and "The 2003 heatwave in France" were removed; the categories "The drought and heatwaves of the summer 2022 in France", "The global COVID-19 pandemic" and "the Katrina hurricane in 2005" were added.

* The "others" curve includes the answers did not represent this year but proposed in previous years, for example: in 1989, "The earthquake in Armenia" received 20% of the replies. In 2000, "The Air France Concorde crash" received 5% of answers. In addition, the "other" curve represents the answers proposed by the respondents themselves. In 2019, 3% spontaneously answered "other: Lubrizol", in reference to the fire at the chemical plant in Rouen on September 26th 2019.



PART 2

THE OUTLOOK OF THE FRENCH ON SCIENCE AND EXPERTISE

19 – 20

The image of science
and expertise

21 – 30

The expertise expected
by the French

31 – 41

Sharing the results
of the expertise

42 – 43

The management
of high-risk facilities

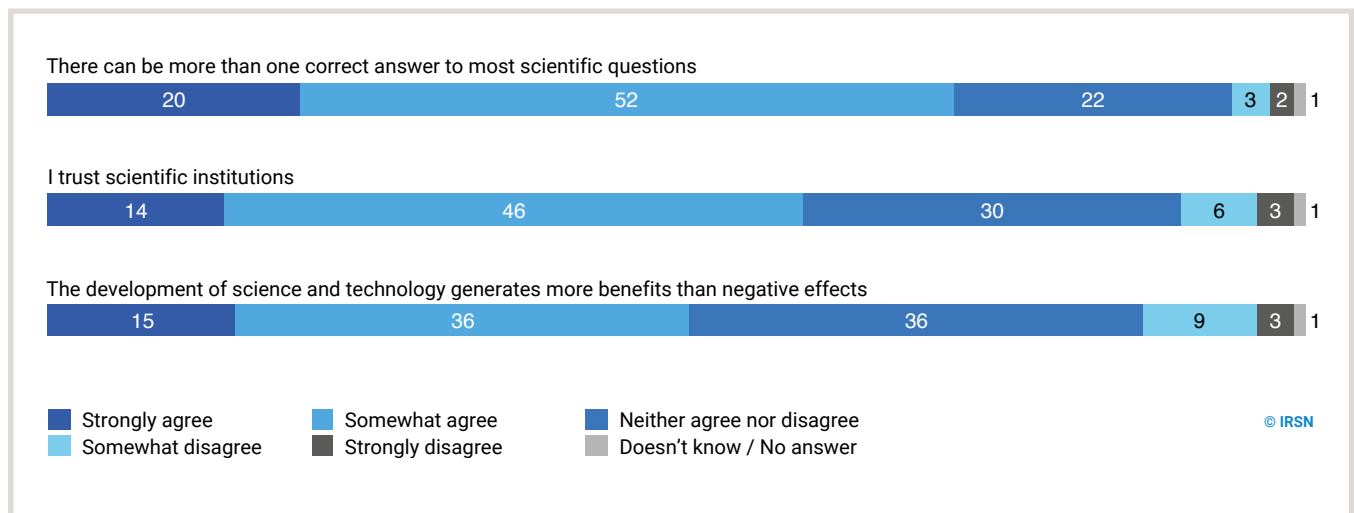
44 – 51

Citizen participation
and pluralism

QUESTION No.1

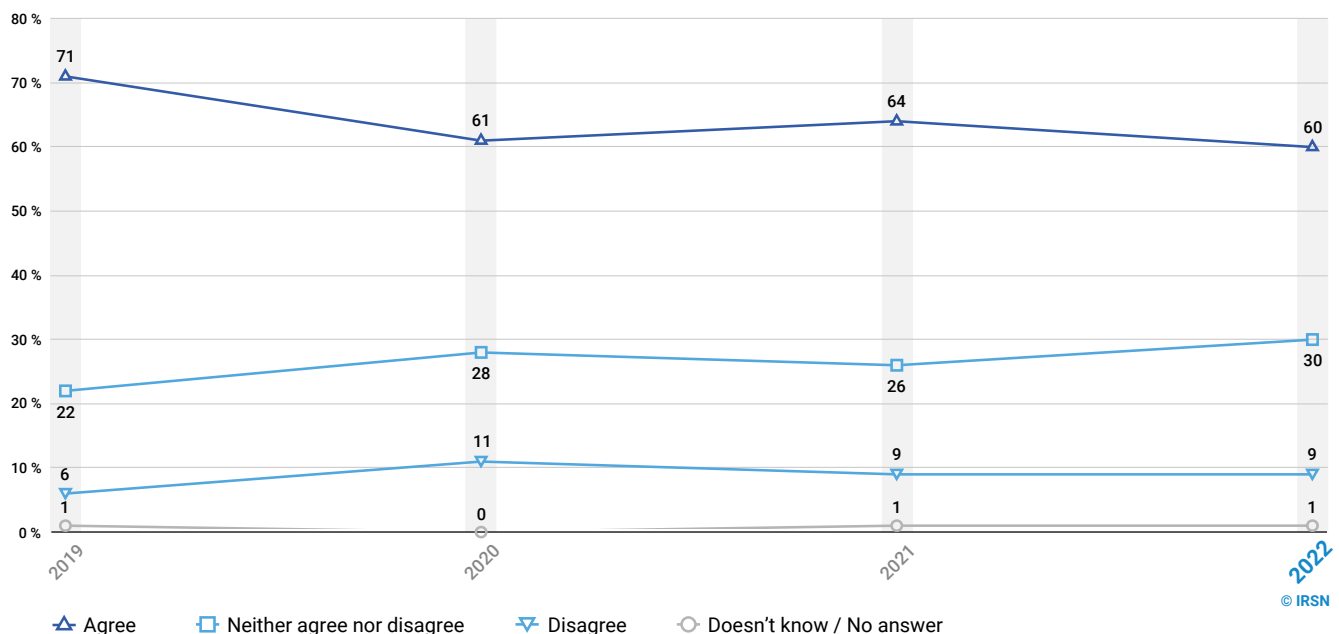
Here are a number of propositions related to science.
For each of them, please indicate on the following scale
whether you agree or not.

→ NOVEMBER 2022 (IN %)



→ EVOLUTION OF THE RESULTS 2019-2022 (IN %)

1 - I trust scientific institutions



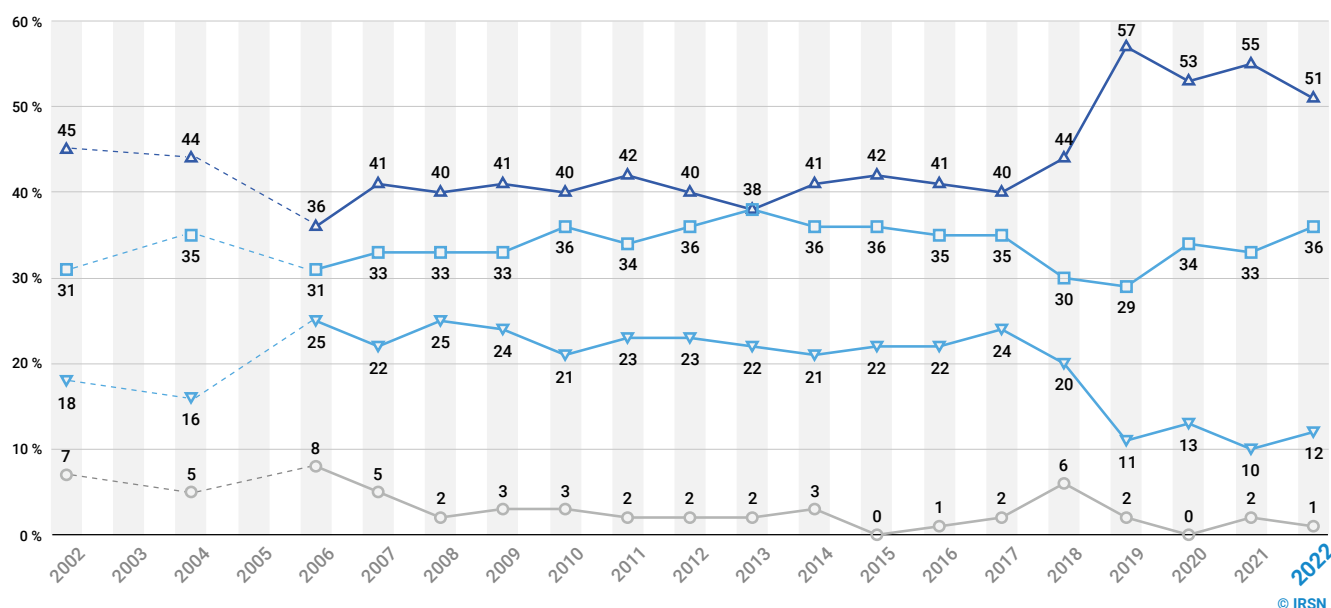
The answers "Strongly disagree" and "Somewhat disagree" were grouped into "Disagree"; the answers "Somewhat agree" and "Strongly agree" into "agree".

QUESTION No.1 (CONT.)

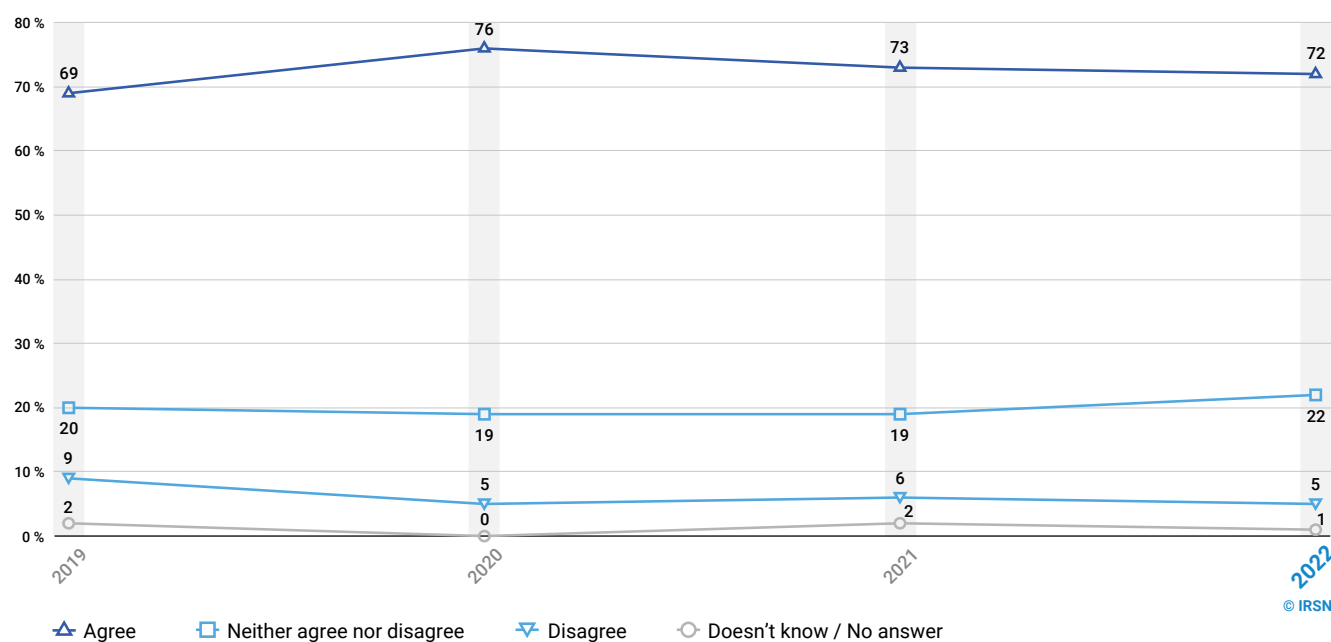
Here are a number of propositions related to science.
For each of them, please indicate on the following scale
whether you agree or not.

→ EVOLUTION OF THE RESULTS 2002-2022 (IN %)

2 - The development of science and technology generates more benefits than negative effects



3 - There can be more than one correct answer to most scientific questions

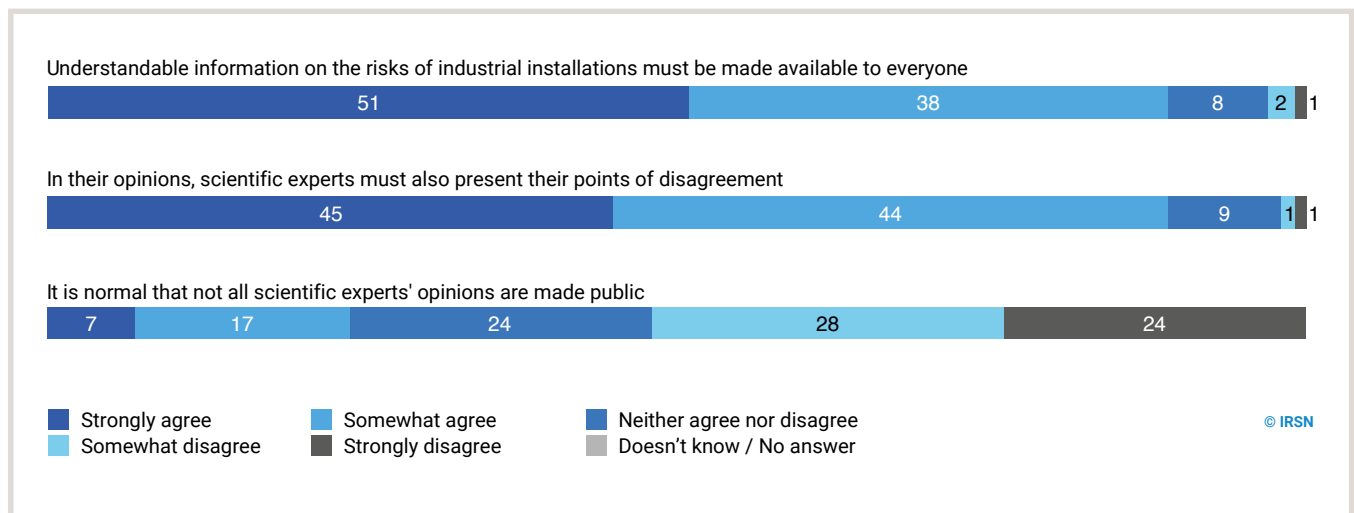


The answers "Strongly disagree" and "Somewhat disagree" were grouped into "Disagree"; the answers "Somewhat agree" and "Strongly agree" into "agree".

QUESTION No.2

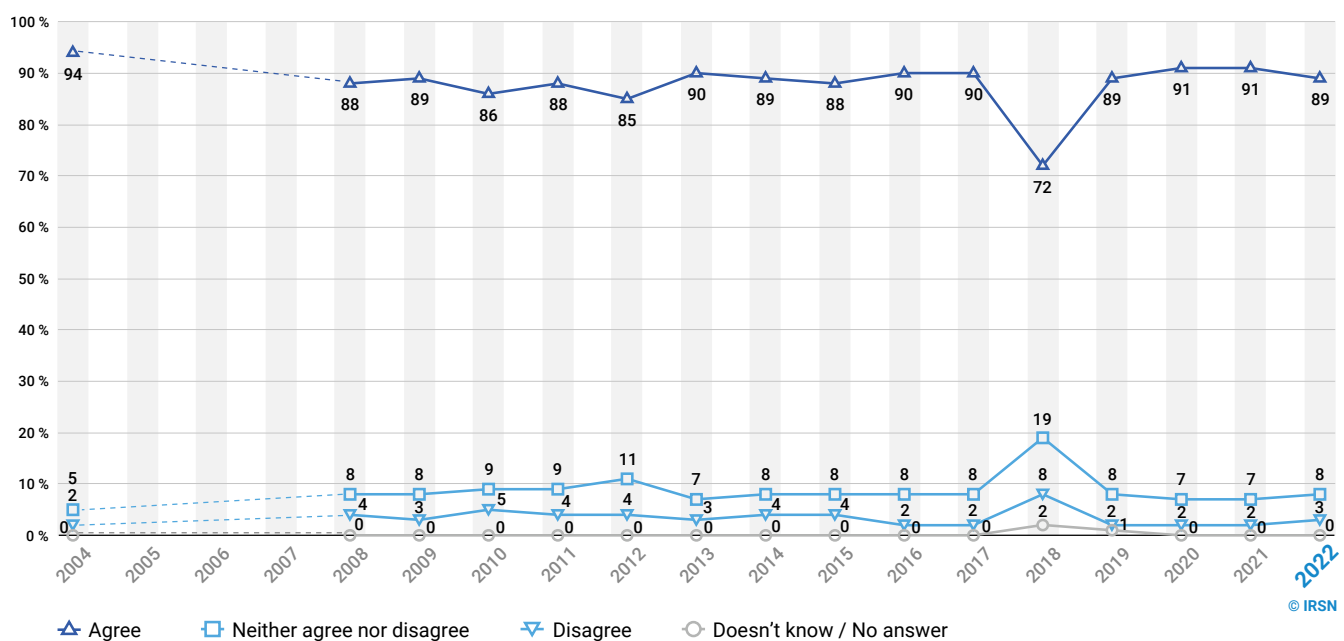
Here are a number of proposals regarding scientific expertise.
For each one, please indicate on the following scale whether you agree or not.

→ NOVEMBER 2022 (IN %)



→ EVOLUTION OF THE RESULTS 2004-2022 (IN %)

1 - Understandable information on the risks of industrial installations must be made available to everyone*



* In 2022, the adjective "industrial" was added.

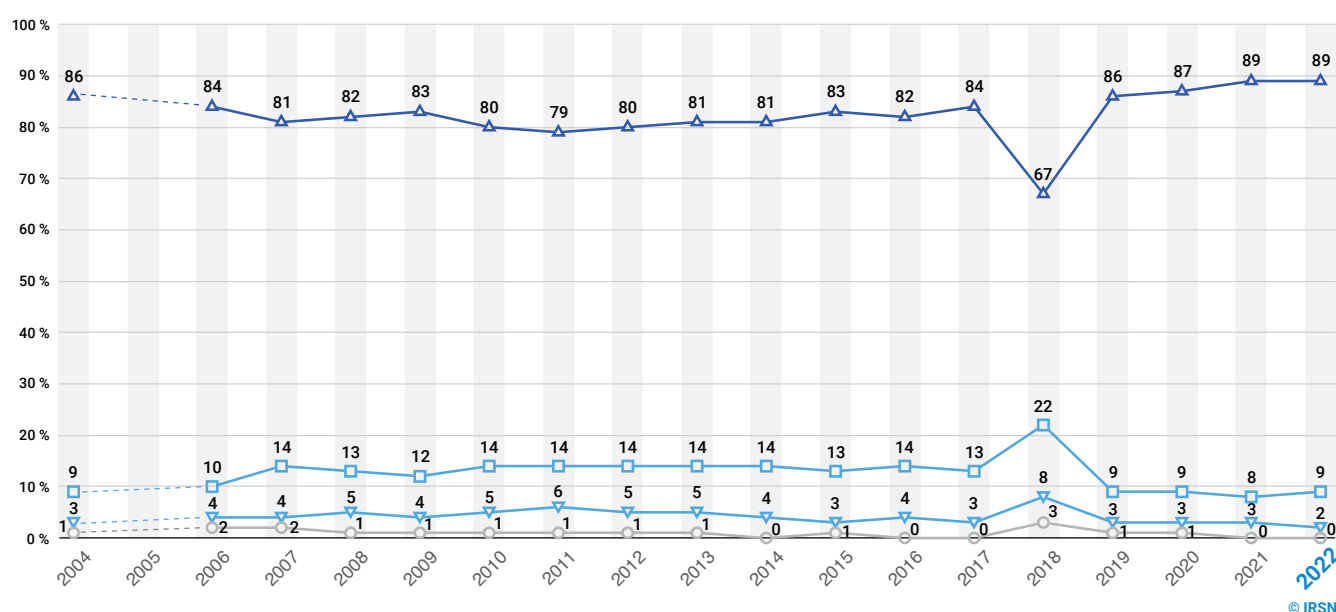
The answers "Strongly disagree" and "Somewhat disagree" were grouped into "Disagree"; the answers "Somewhat agree" and "Strongly agree" into "agree".
In 2019, the answer "May agree" was replaced by "Neither agree nor disagree".

QUESTION No. 2 (CONT.)

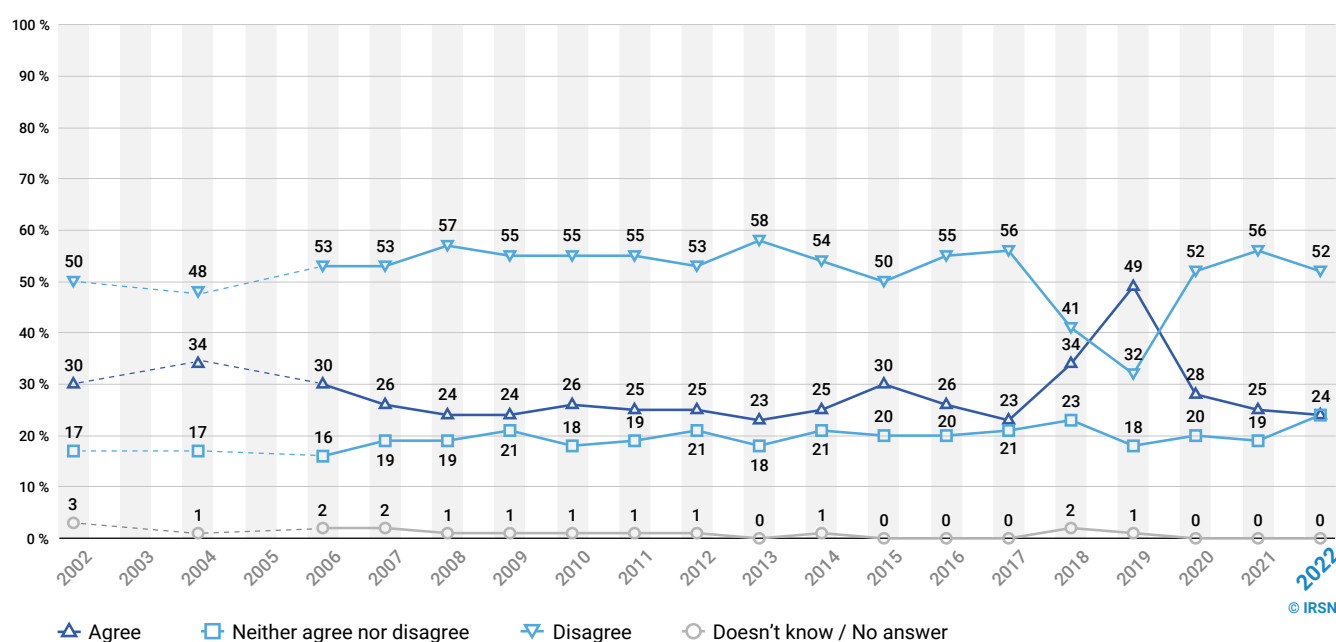
Here are a number of proposals regarding scientific expertise.
For each one, please indicate on the following scale whether you agree or not.

→ EVOLUTION OF THE RESULTS 2002-2022 (IN %)

2 - In their opinions, scientific experts must also present their points of disagreement



3 - It is normal that not all scientific experts' opinions are made public



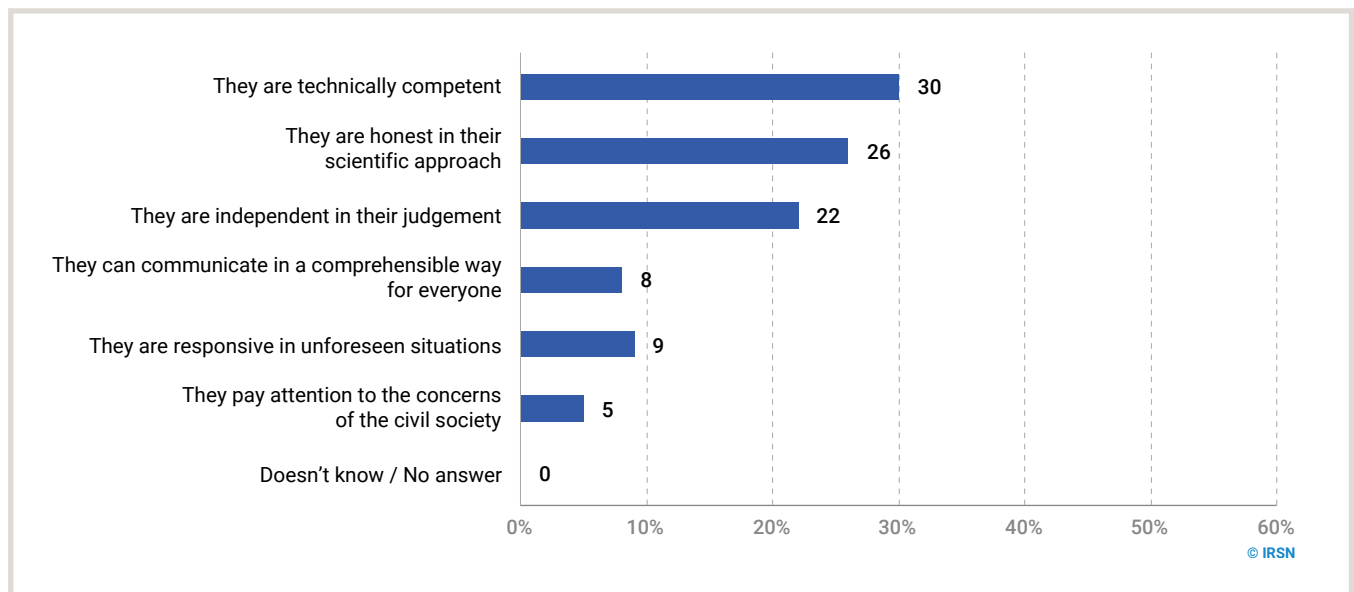
The answers "Strongly disagree" and "Somewhat disagree" were grouped into "Disagree"; the answers "Somewhat agree" and "Strongly agree" into "agree". In 2019, the answer "May agree" was replaced by "Neither agree nor disagree".

QUESTION No. 3

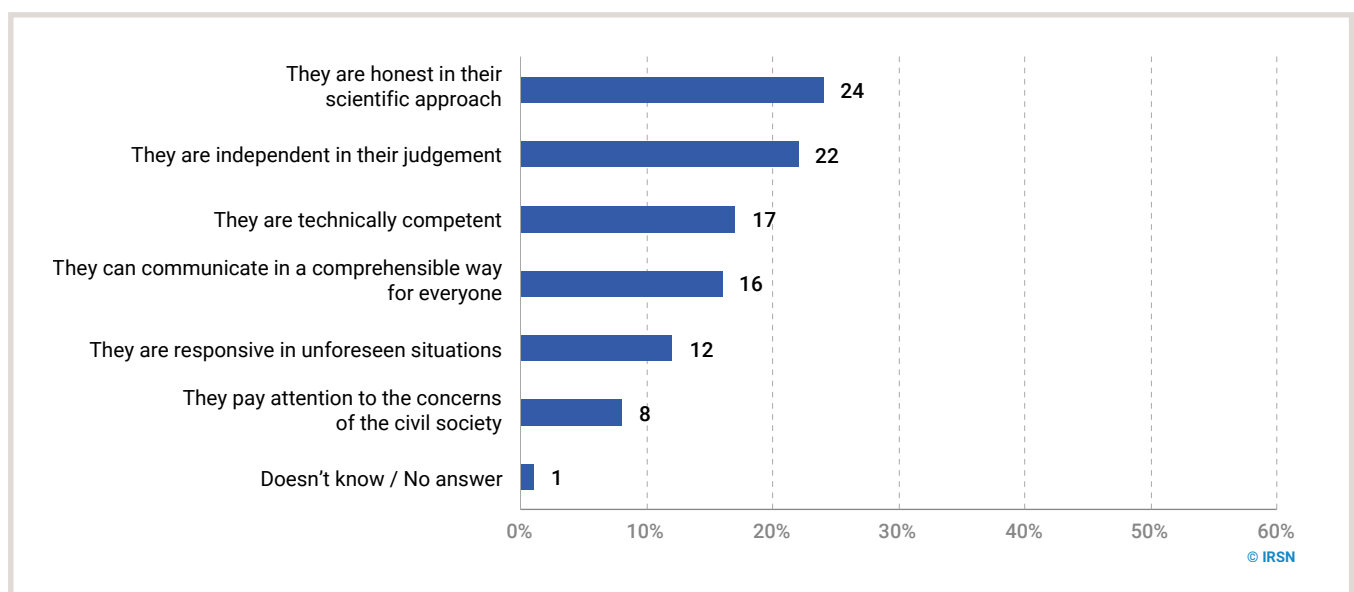
What are, in your opinion, the two most important qualities of scientific experts? First? Second?

→ NOVEMBER 2022 (IN %)

1 – First



2 – Second

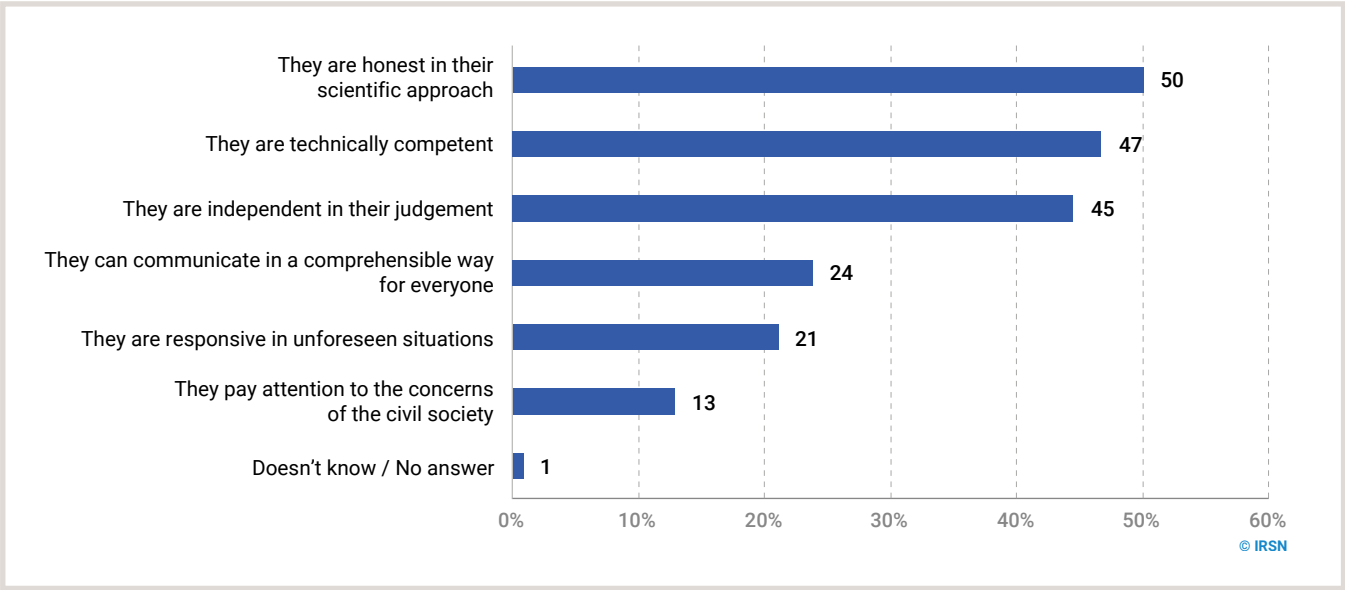


QUESTION
No. 3
(CONT.)

What are, in your opinion, the two most important qualities of scientific experts? First? Second?

→ NOVEMBER 2022 (IN %)

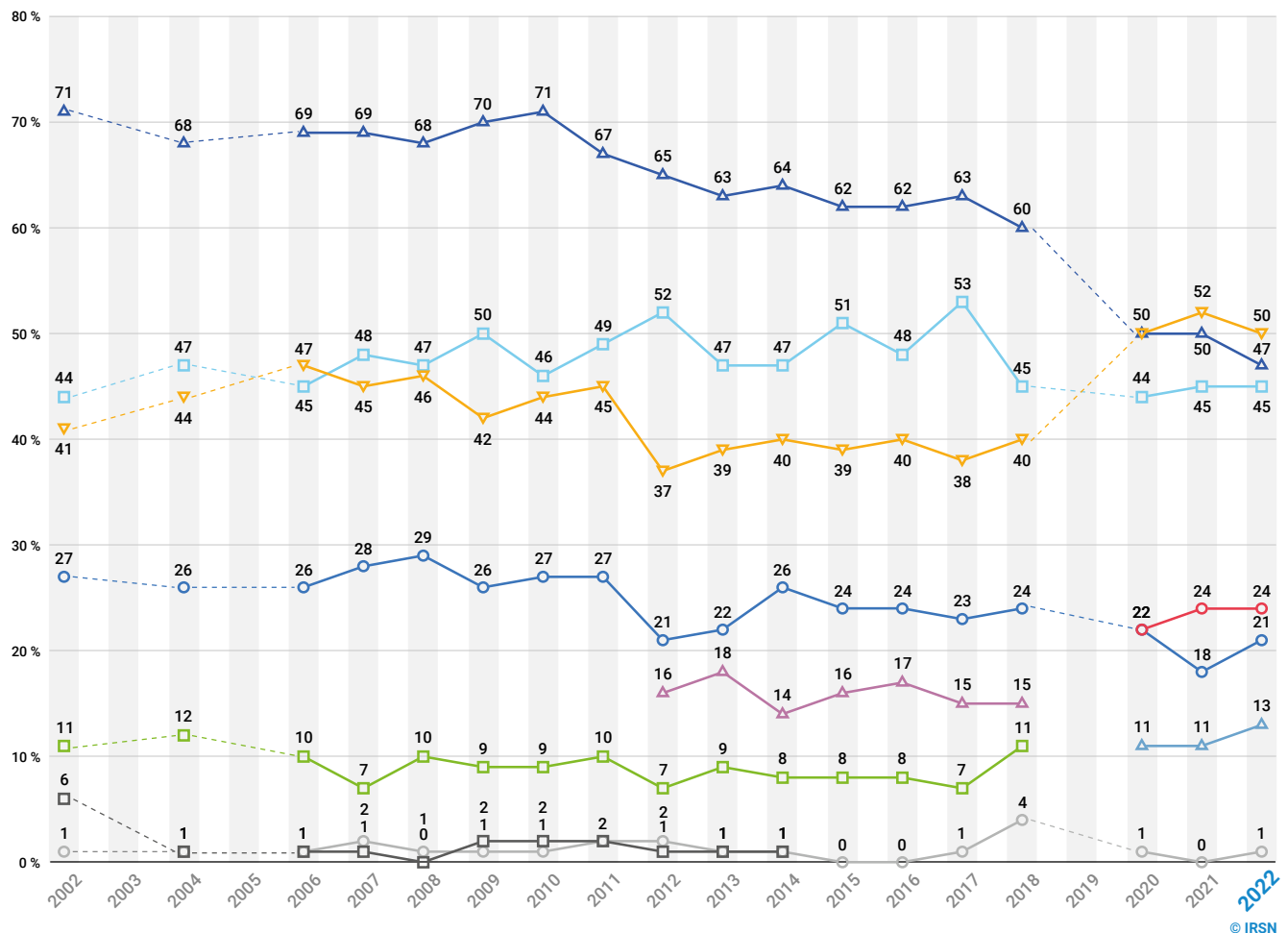
3 – Cumulative results



QUESTION No. 3 (CONT.)

What are, in your opinion, the two most important qualities of scientific experts?

→ EVOLUTION OF THE CUMULATIVE RESULTS 2002-2022 (IN %)



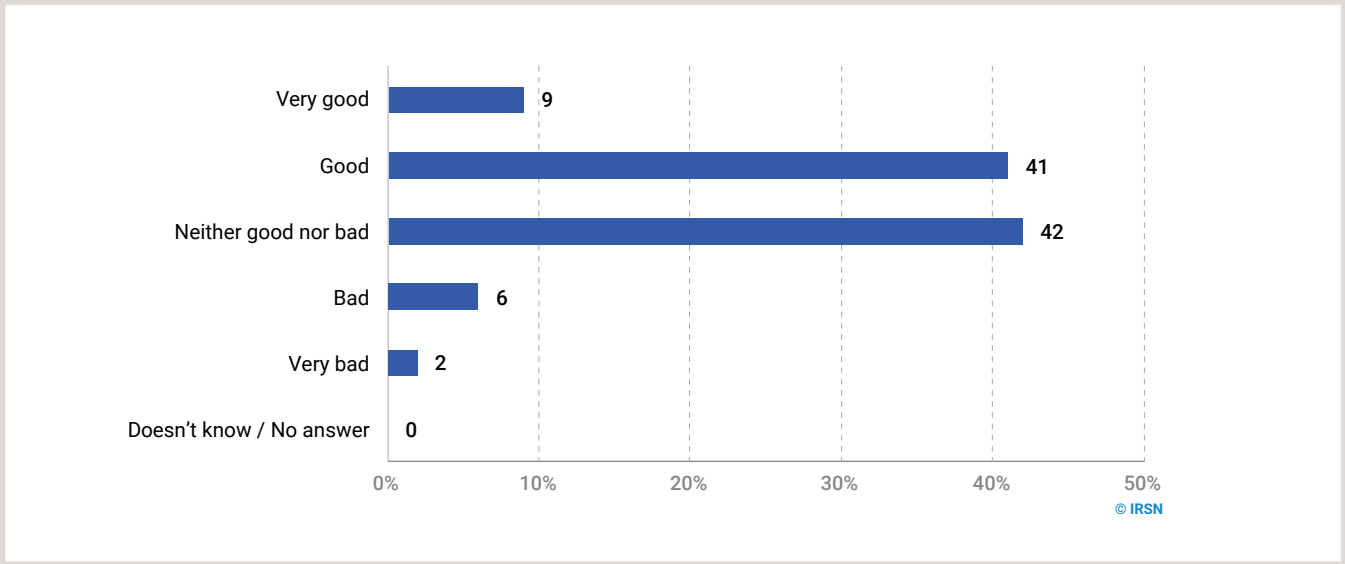
- ✂ They are honest in their scientific approach*
- ▲ They are technically competent
- They are independent in their judgement
- They can communicate in a comprehensible way for everyone
- They are responsive in unforeseen situations
- ▲ They pay attention to the concerns of the civil society
- ▲ They declare their possible links with the industry
- They are creative
- Others
- Doesn't know / No answer

* In 2020, the answers "They declare their possible links with the industry" and "They are creative" were removed, and "They can communicate in a comprehensible way for everyone" and "They pay attention to the concerns of the civil society" were added. Moreover, the answer "They state honestly how they obtained their results" was replaced by "They are honest in their scientific approach" in 2020.

QUESTION
No. 4

In general, do you have a good or a bad opinion
of scientific experts?

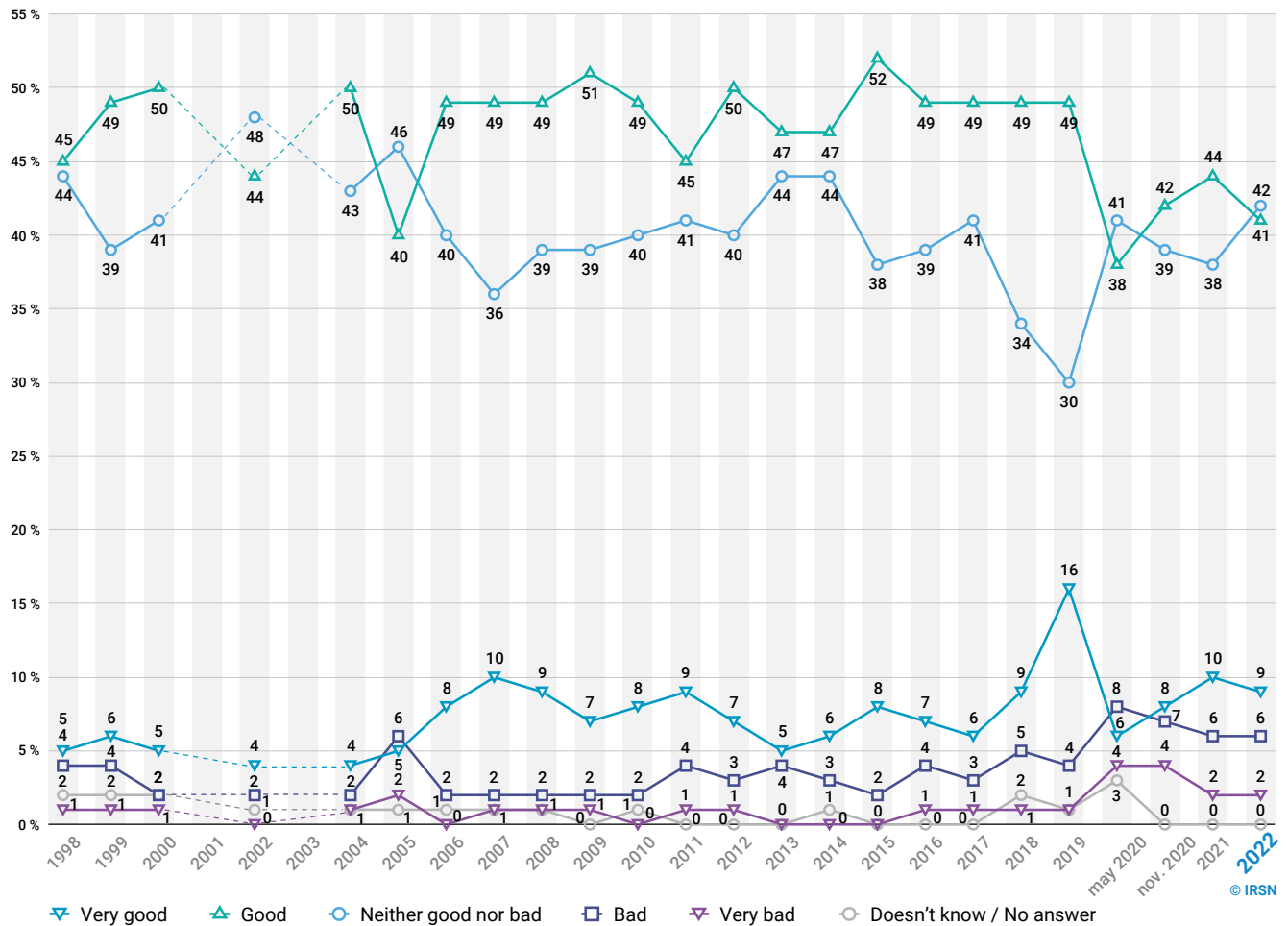
→ NOVEMBER 2022 (IN %)



QUESTION No. 4 (CONT.)

In general, do you have a good or a bad opinion of scientific experts?

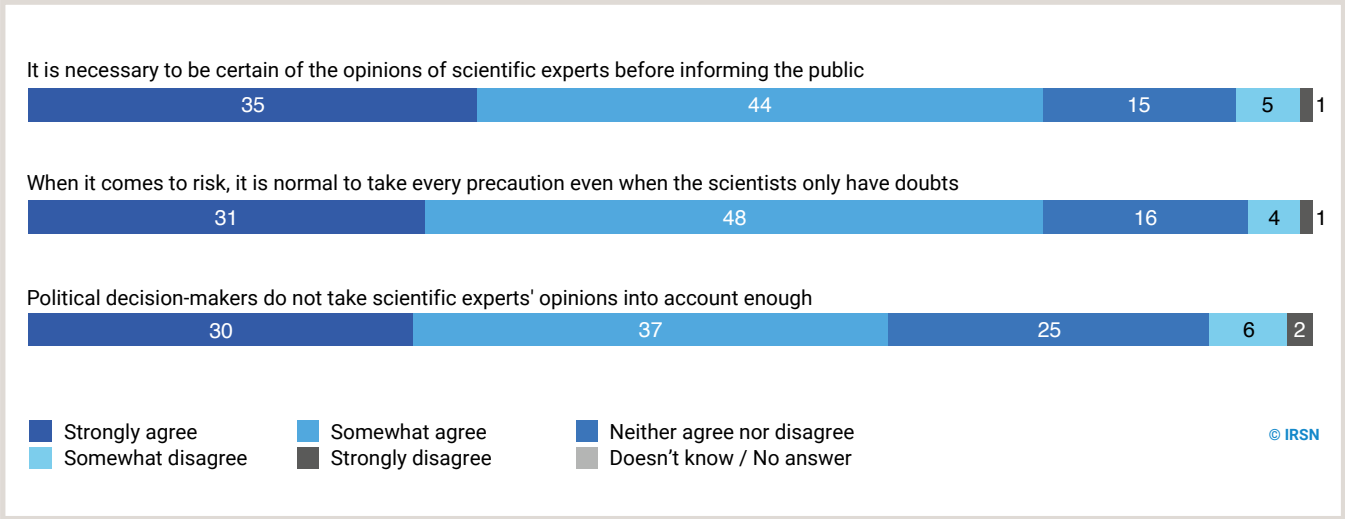
→ EVOLUTION OF THE RESULTS 1998-2022 (IN %)



QUESTION
No.5

Here are three sentences regarding scientific experts and decision-makers. For each one, please indicate whether you agree or not.

→ NOVEMBER 2022 (IN %)

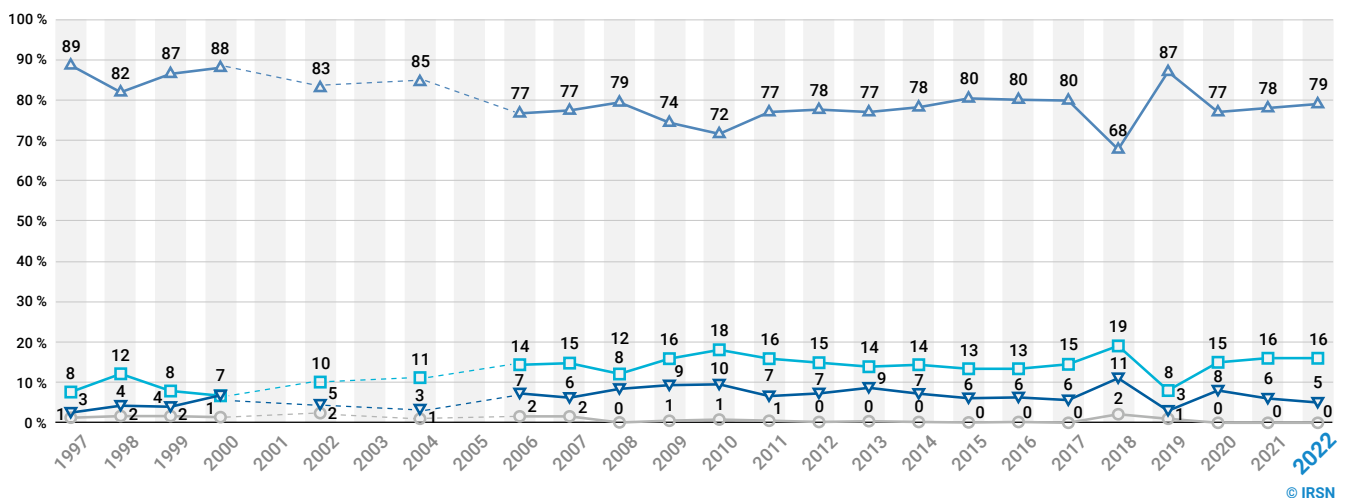


QUESTION No. 5 (CONT.)

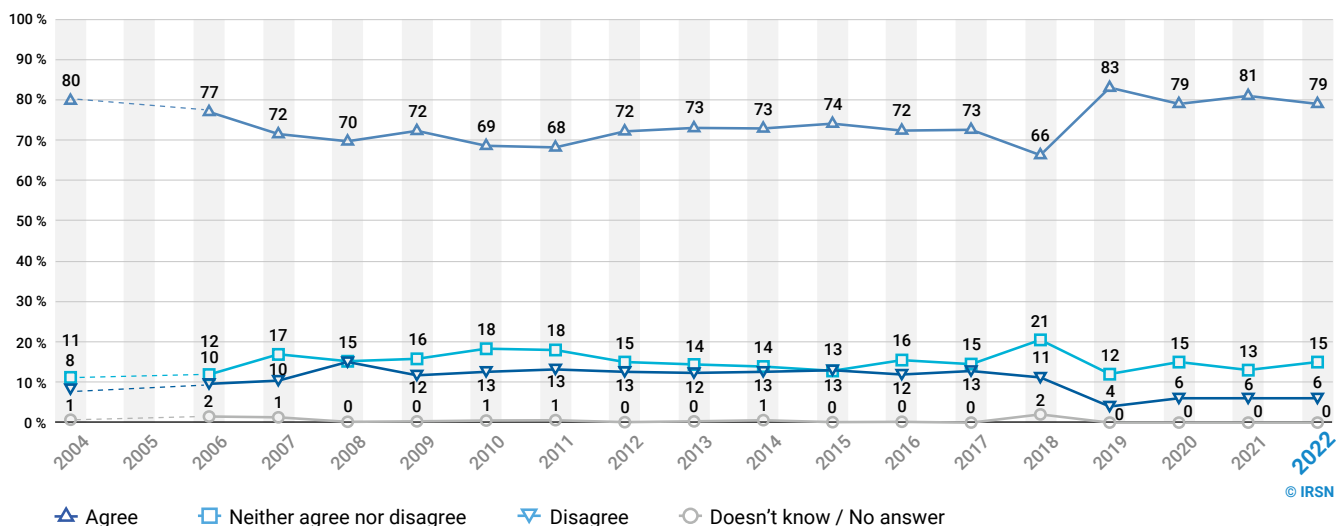
Here are three sentences regarding scientific experts and decision-makers. For each one, please indicate whether you agree or not.

→ EVOLUTION OF THE RESULTS 1997-2022 (IN %)

1 - When it comes to risk, it is normal to take every precaution even when the scientists only have doubts



2 - It is necessary to be certain of the opinions of scientific experts before informing the public



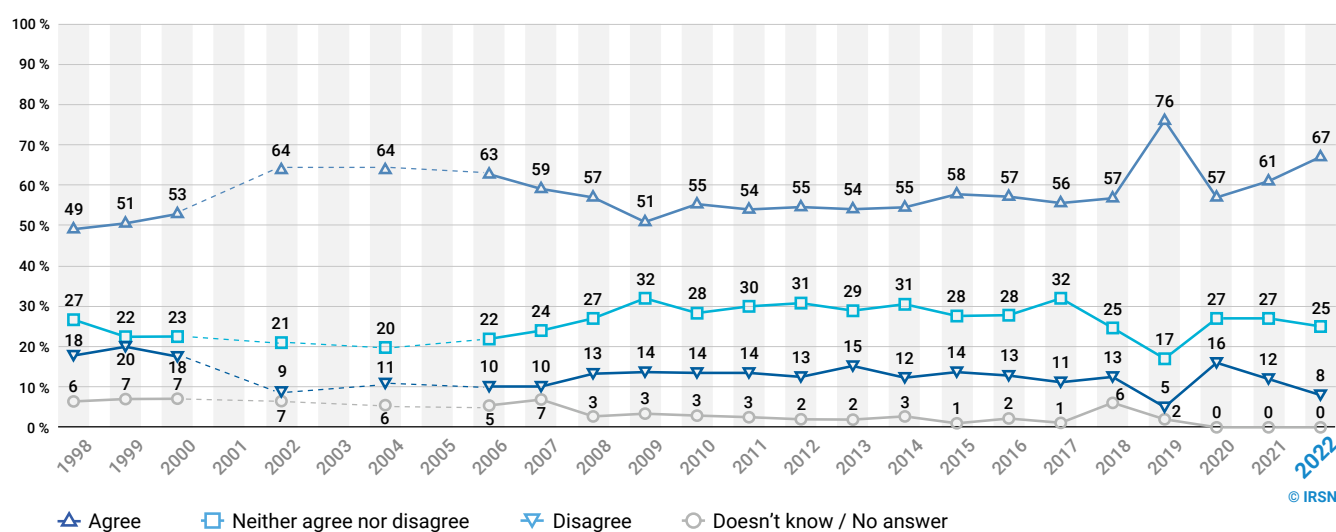
The answers "Strongly disagree" and "Somewhat disagree" were grouped into "Disagree"; the answers "Somewhat agree" and "Strongly agree" into "agree". In 2019, the answer "May agree" was replaced by "Neither agree nor disagree". In 2022, the adjective "scientific" was added to the question.

QUESTION No.5 (CONT.)

Here are three sentences regarding scientific experts and decision-makers. For each one, please indicate whether you agree or not.

→ EVOLUTION OF THE RESULTS 1998-2022 (IN %)

3 - Political decision-makers do not take scientific experts' opinions into account enough

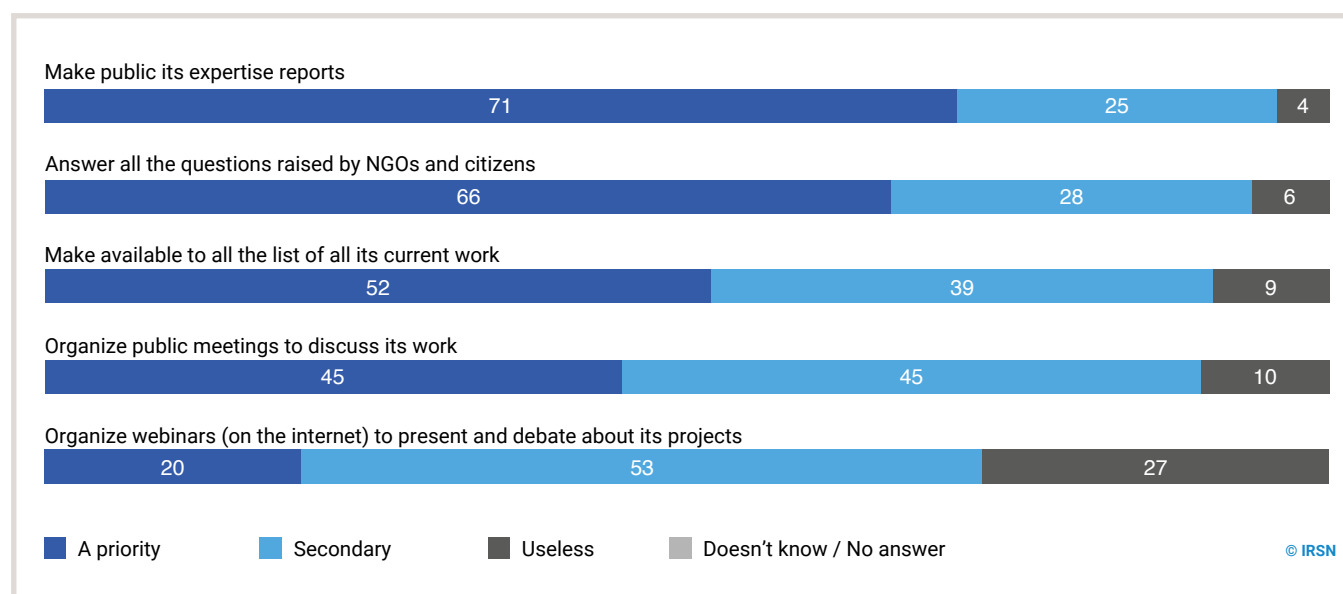


The answers "Strongly disagree" and "Somewhat disagree" were grouped into "Disagree"; the answers "Somewhat agree" and "Strongly agree" into "agree". In 2019, the answer "May agree" was replaced by "Neither agree nor disagree". In 2022, the adjective "scientific" was added to the question.

QUESTION No. 6

Here are actions that an expertise body could take to better report on the results of its expertise. For each one, please indicate whether it is a priority, secondary or useless.

→ NOVEMBER 2022 (IN %)

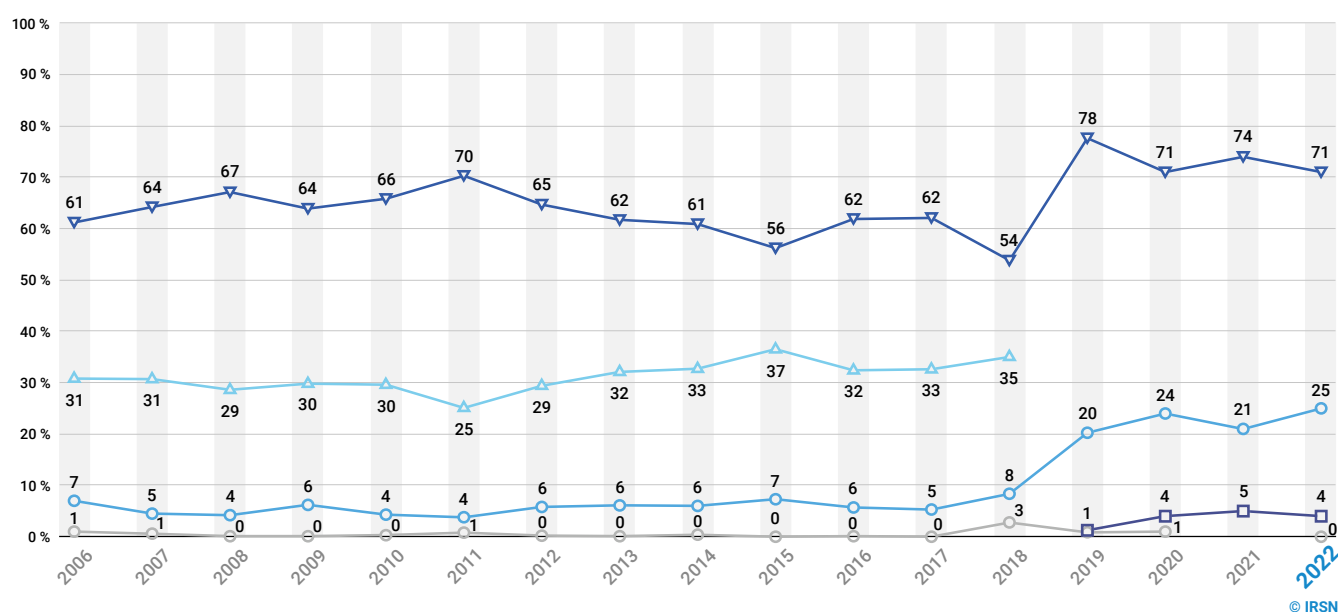


QUESTION No. 6 (CONT.)

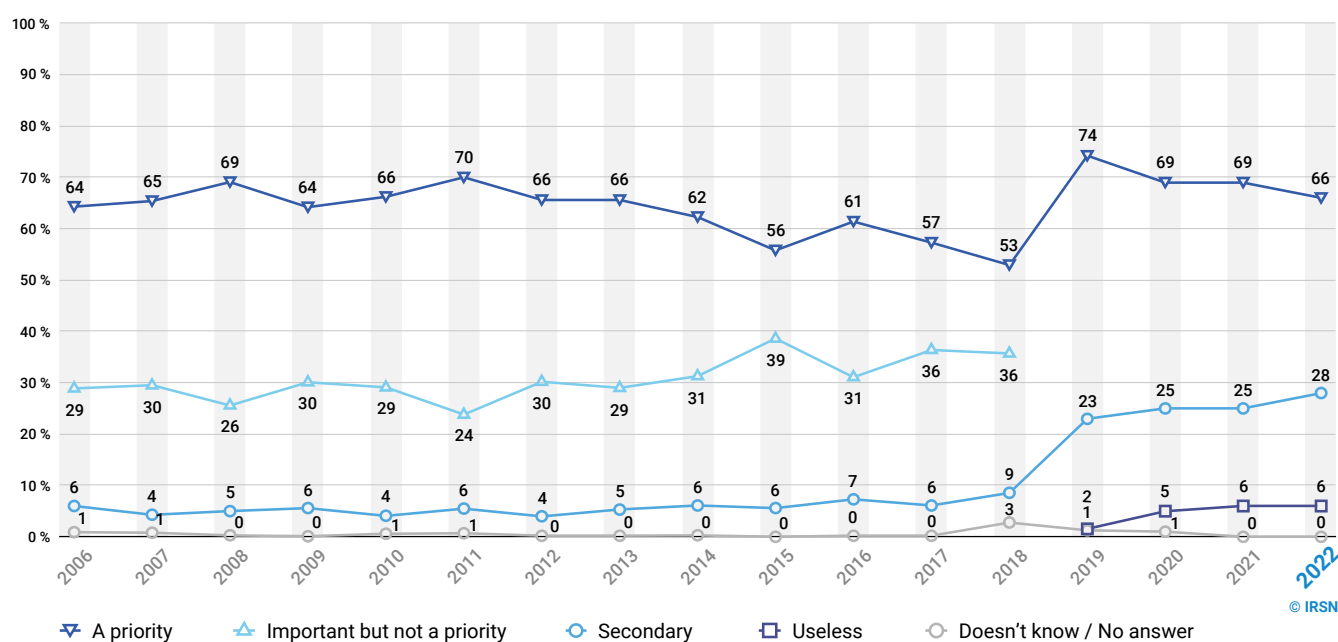
Here are actions that an expertise body could take to better report on the results of its expertise. For each one, please indicate whether it is a priority, secondary or useless.

→ EVOLUTION OF THE RESULTS 2006-2022 (IN %)

1 - Make public its expertise reports



2 - Answer all questions raised by associations and citizens



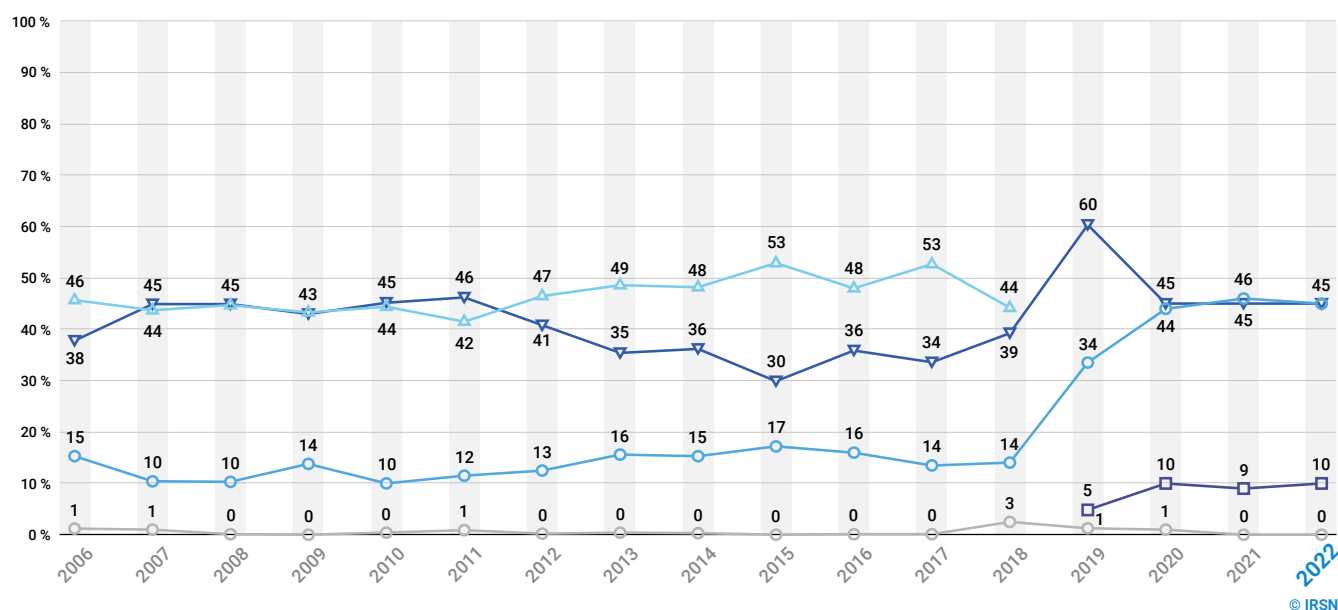
In 2019, the answer "Important but not a priority" has been deleted and the answer "Useless" has been added. In 2021, the answer "Make available to all the list of expertise requests" has been removed. The answer "Organize webinars (on the internet) to present and debate about its projects" has been added.

QUESTION No. 6 (CONT.)

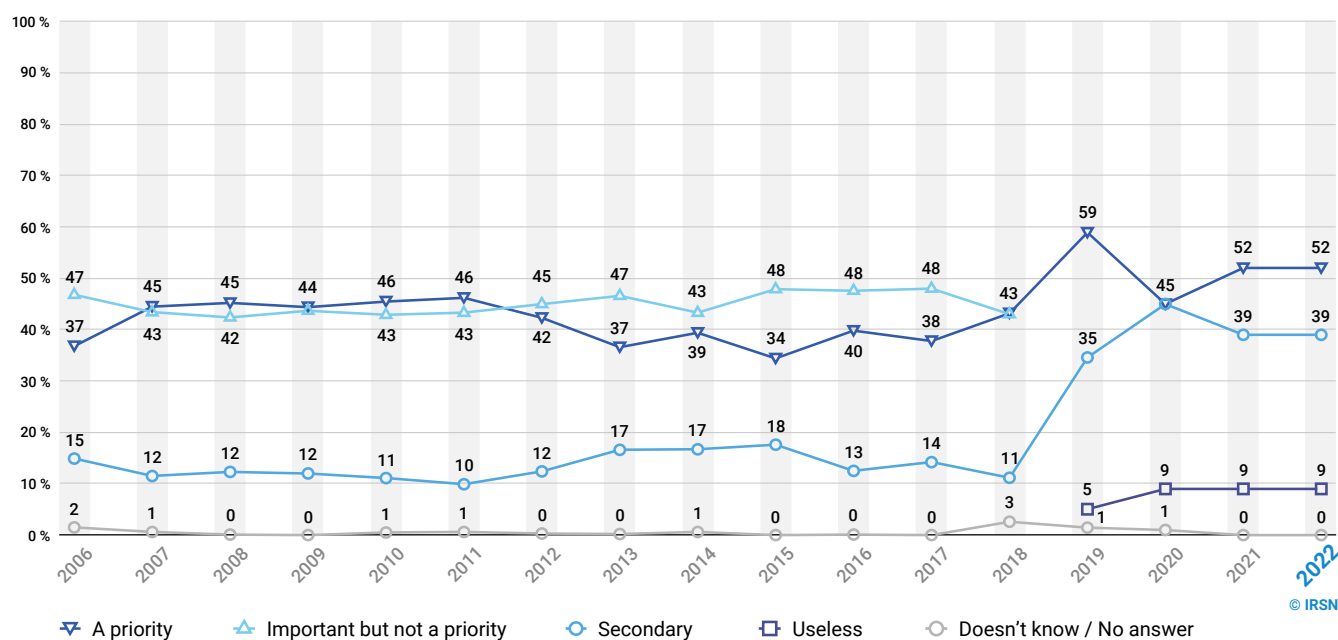
Here are actions that an expertise body could take to better report on the results of its expertise. For each one, please indicate whether it is a priority, secondary or useless.

→ EVOLUTION OF THE RESULTS 2006-2022 (IN %)

3 - Organize public meetings to discuss its work



4 - Make available to all the list of its current expertise*



* In 2022, the adjective "expertise" was added to the question.

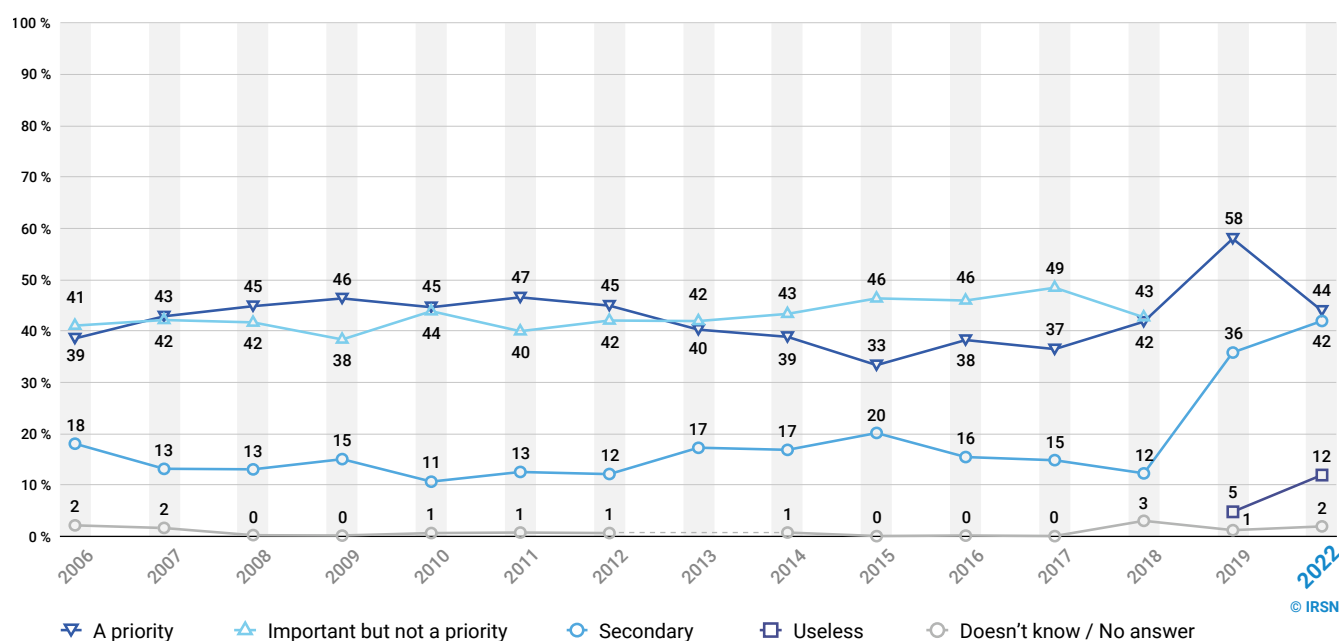
In 2019, the answer "Important but not a priority" has been deleted and the answer "Useless" has been added. In 2021, the answer "Make available to all the list of expertise requests" has been removed. The answer "Organize webinars (on the internet) to present and debate about its projects" has been added.

QUESTION No. 6 (CONT.)

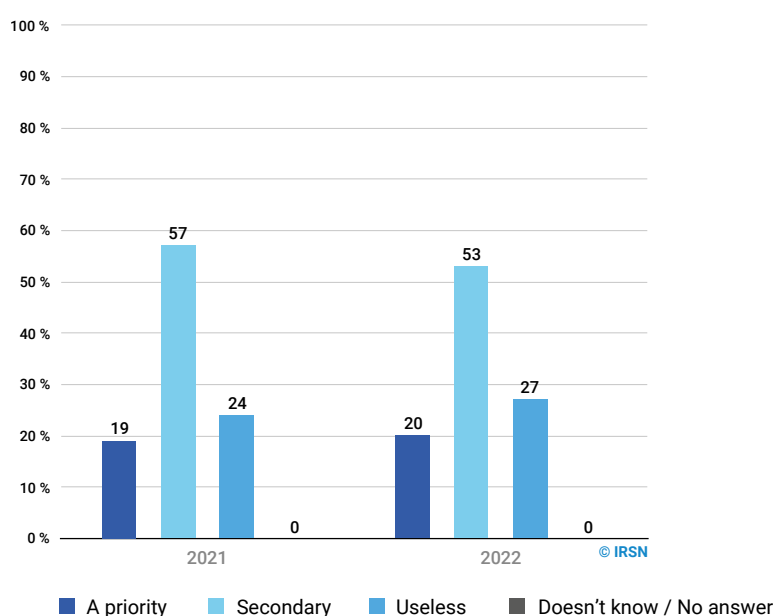
Here are actions that an expertise body could take to better report on the results of its expertise. For each one, please indicate whether it is a priority, secondary or useless.

→ EVOLUTION OF THE RESULTS 2006-2022 (IN %)

5 - Make available to all the list of their requests for expertise that are made to it



6 - Organize webinars (on the internet) to present and debate about its projects

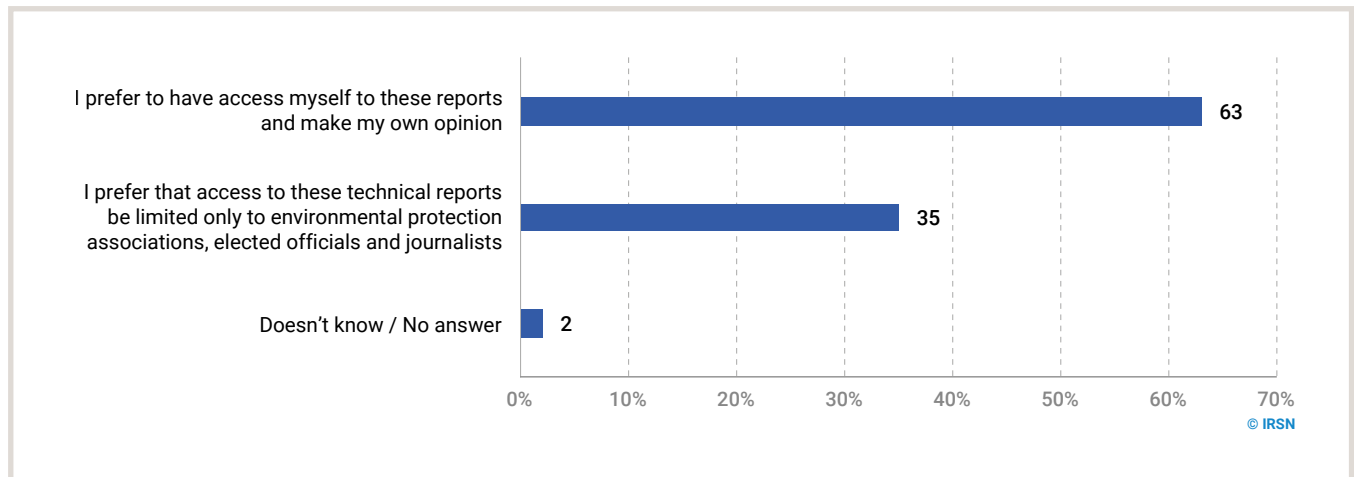


In 2019, the answer "Important but not a priority" has been deleted and the answer "Useless" has been added. In 2021, the answer "Make available to all the list of expertise requests" has been removed. The answer "Organize webinars (on the internet) to present and debate about its projects" has been added.

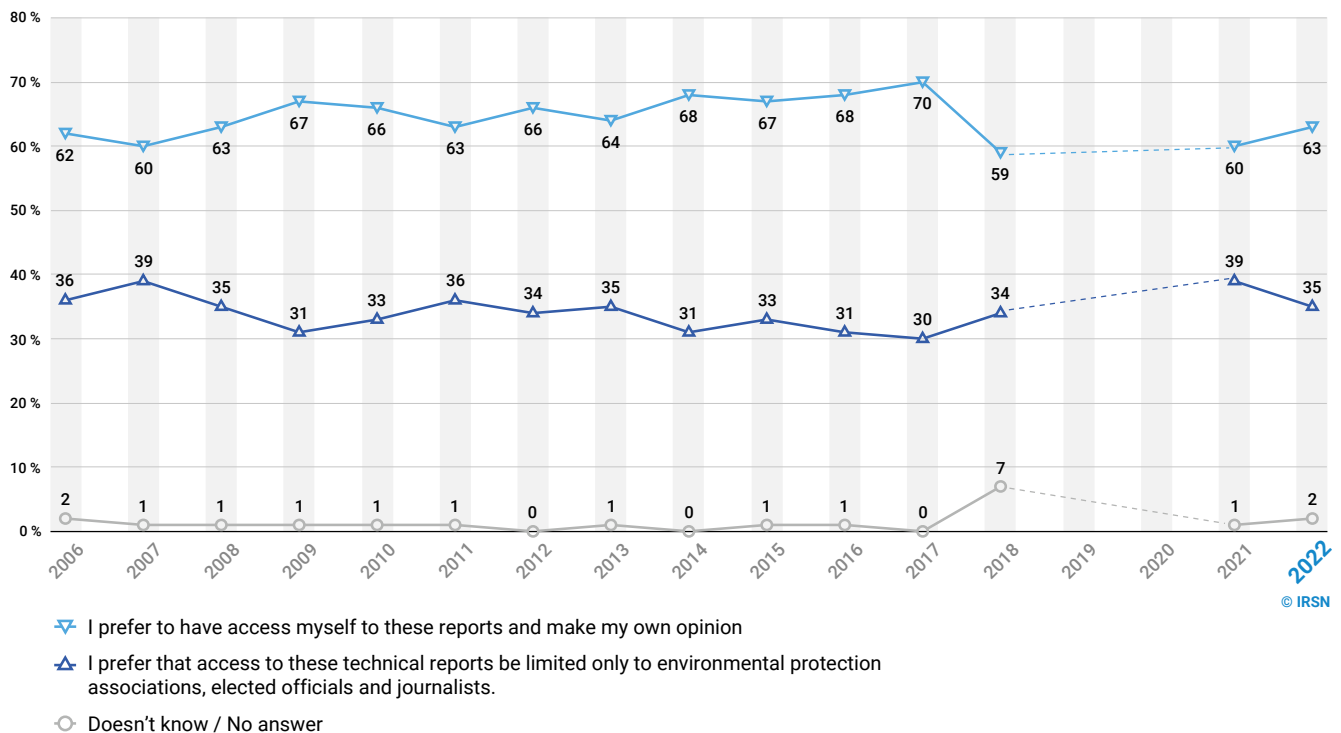
QUESTION No.7

Technological risks expertise is embodied by reports to regulatory agencies in order for them to authorize an industrial installation.
What do you prefer regarding these reports?

→ NOVEMBER 2022 (IN %)



→ EVOLUTION OF THE RESULTS 2006-2022* (IN %)

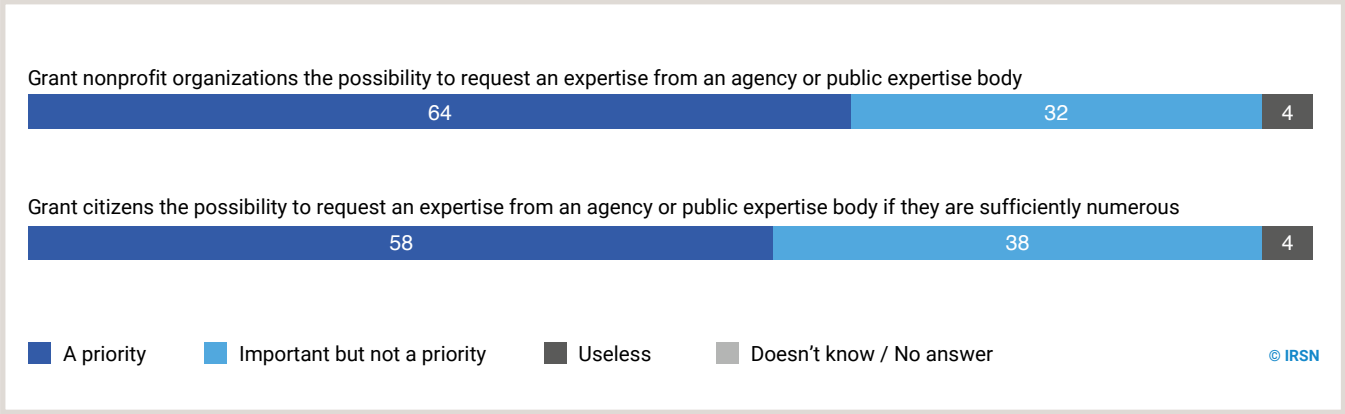


* Between 2006 and 2018, the base of respondents consisted only of people who considered it useful to diffuse expert reports to all. In 2021, this question has been asked to the entire sample. In 2022, the answer "I prefer that access to these technical reports be limited only to others such as environmental protection associations, elected officials or journalists" was replaced by "I prefer that access to these technical reports be limited only to environmental protection associations, elected officials and journalists."

QUESTION
No. 8

Here are two proposals regarding citizens' access to experts. For each of them, independently of the other, please indicate if it appears to you as a priority, secondary, or unnecessary.

→ NOVEMBER 2022 (IN %)

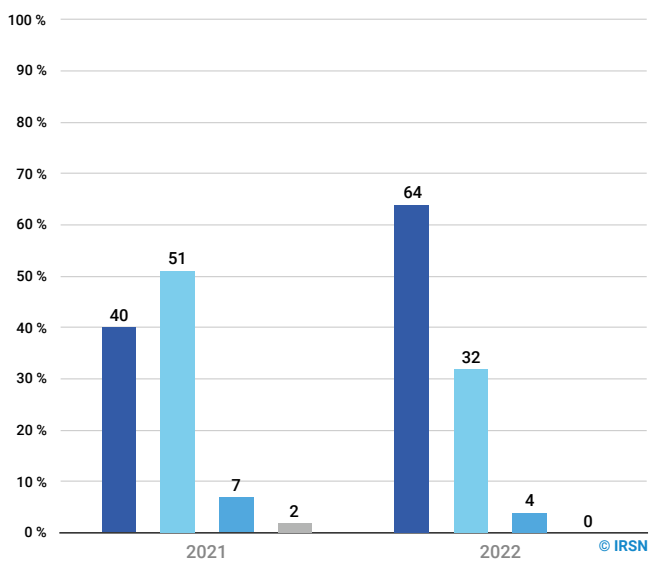


QUESTION No. 8 (CONT.)

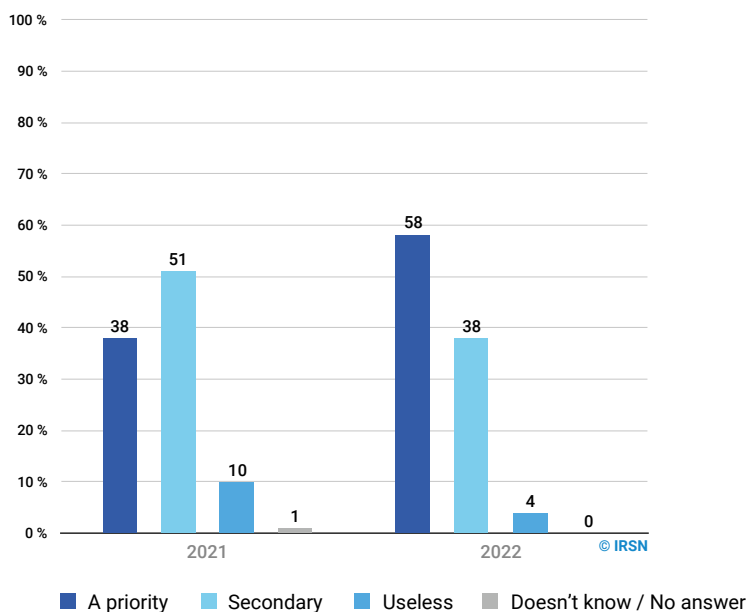
Here are two proposals regarding citizens' access to experts. For each of them, independently of the other, please indicate if it appears to you as a priority, secondary, or unnecessary.

→ EVOLUTION OF THE RESULTS 2021-2022 (IN %)

1 - Grant nonprofit organizations the possibility to request an expertise from an agency or public expertise body



2 - Grant citizens the possibility to request an expertise from an agency or public expertise body if they are sufficiently numerous

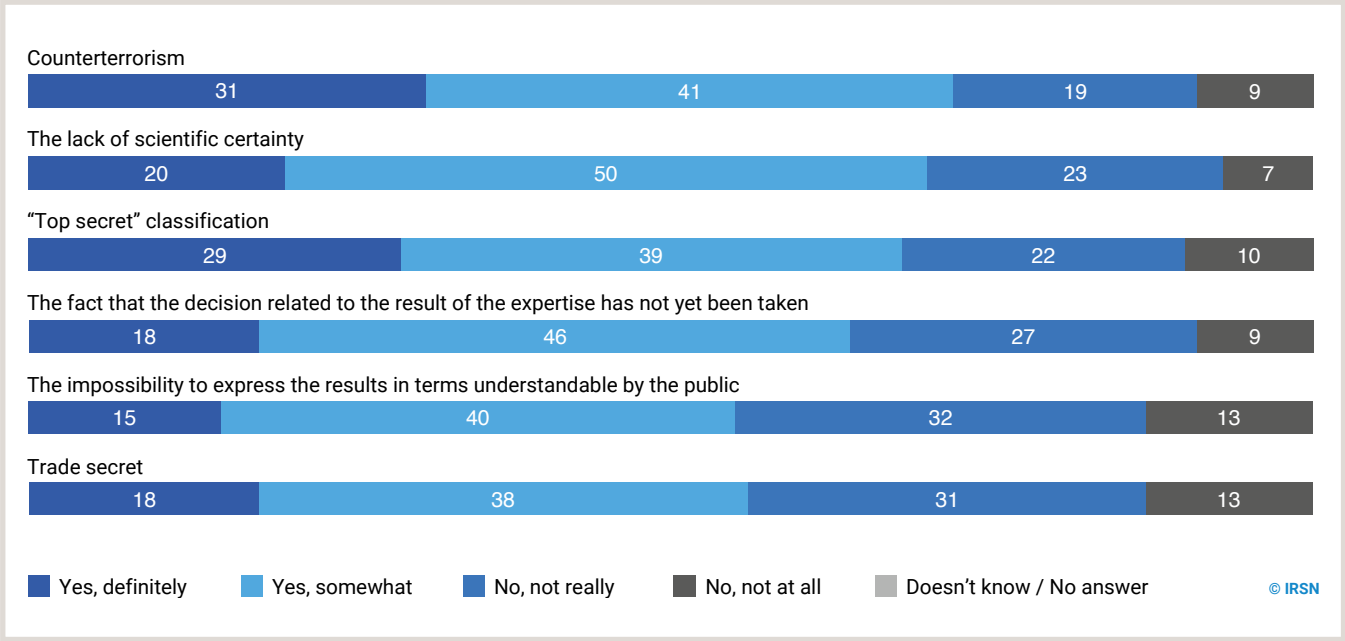


In 2022, the question "Here are two proposals regarding citizens' access to experts. For each of them, please indicate if it seems important to you" was replaced by "Here are two proposals regarding citizens' access to experts. For each of them, independently of the other, please indicate if it appears to you as a priority, secondary, or unnecessary." The value scale was also modified: "not important" was replaced by "unnecessary," "somewhat important" was replaced by "secondary" and "very important" was replaced by "a priority."

QUESTION
No. 9

Here are a number of reasons why the results of a scientific expertise might not be made public. For each one, please indicate on the following scale whether this is a good reason.

→ NOVEMBER 2022 (IN %)

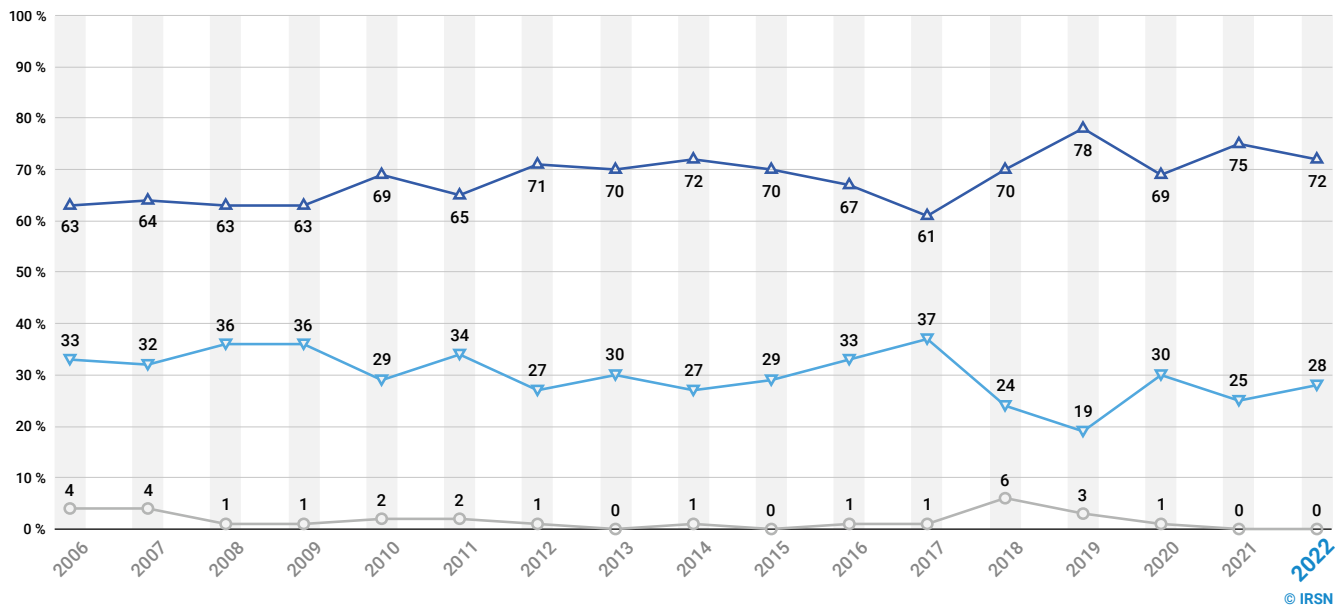


QUESTION No. 9 (CONT.)

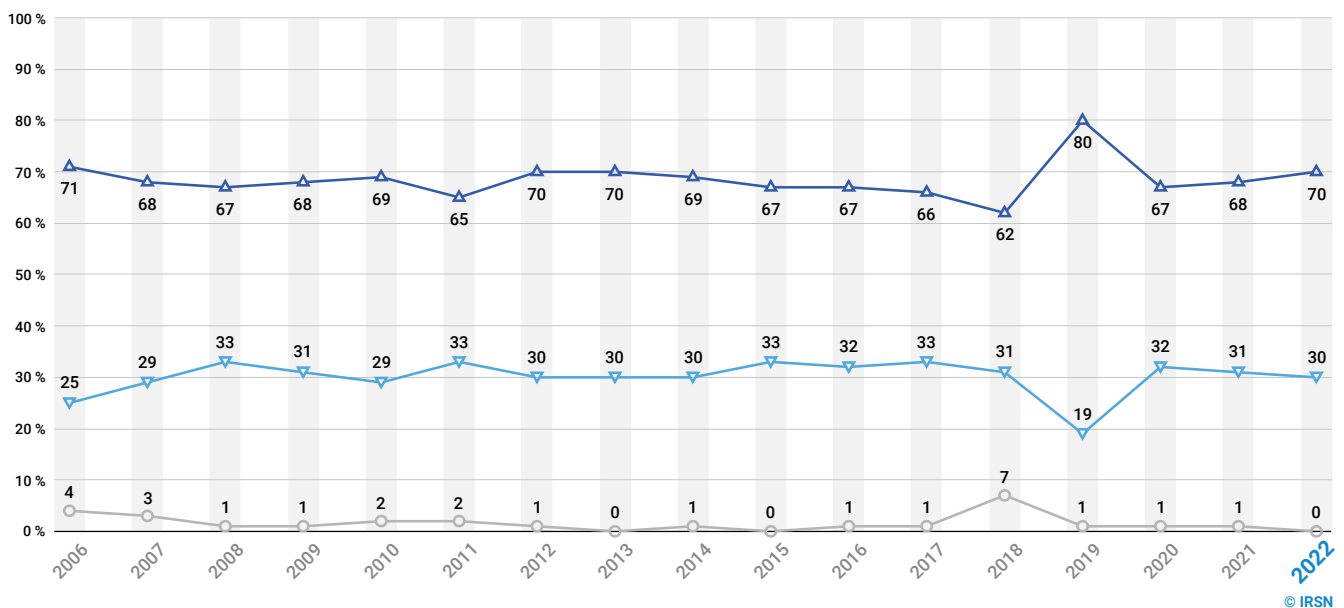
Here are a number of reasons why the results of a scientific expertise might not be made public. For each one, please indicate on the following scale whether this is a good reason.

→ EVOLUTION OF THE RESULTS 2006-2022 (IN %)

1 - Counterterrorism



2 - The lack of scientific certainty*



* In 2019, the proposition "the scientific uncertainty of the results obtained" was replaced by "the lack of scientific certainty".

▲ Yes / Agree ▼ No / Disagree ○ Doesn't know / No answer

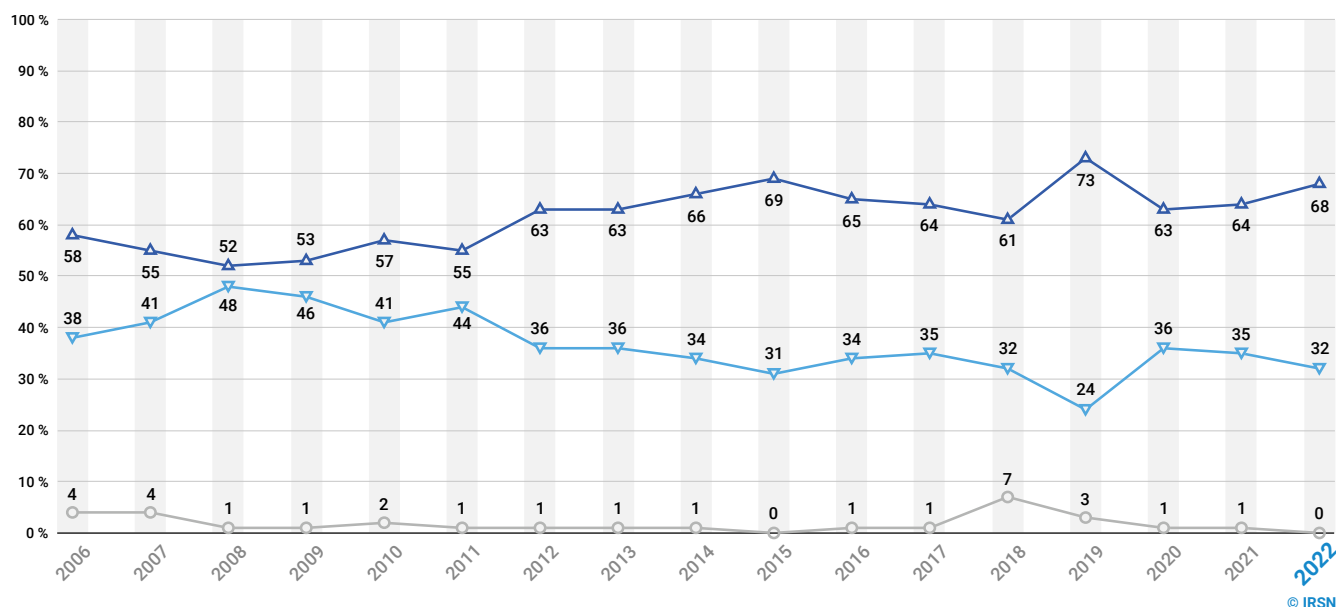
The answers "Yes, definitely" and "Yes, somewhat" were grouped together as "Yes"; the answers "No, not really" and "No, not at all" as "No".

QUESTION No. 9 (CONT.)

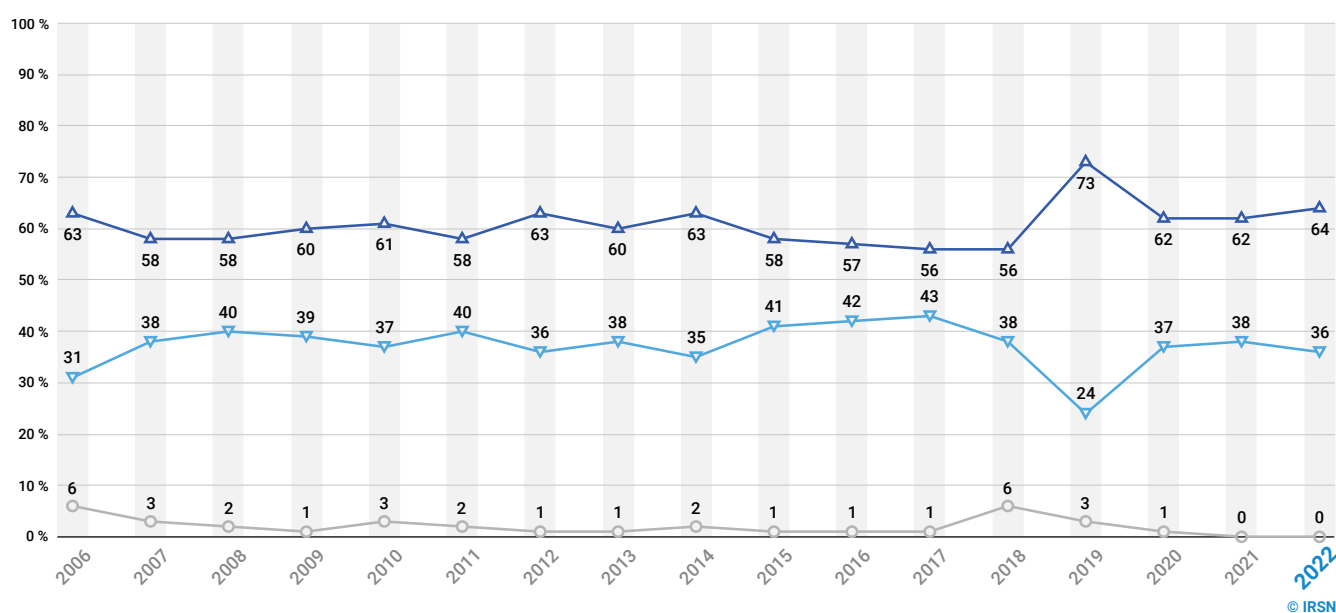
Here are a number of reasons why the results of a scientific expertise might not be made public. For each one, please indicate on the following scale whether this is a good reason.

→ EVOLUTION OF THE RESULTS 2006-2022 (IN %)

3 - "Top secret" classification



4 - The fact that the decision related to the result of the expertise has not yet been taken*



* In 2019, the proposition "the wait for the decision to be taken following the results of the expertise" was replaced by "the fact that the decision related to the result of the expertise has not yet been taken".

▲ Yes / Agree ▼ No / Disagree ○ Doesn't know / No answer

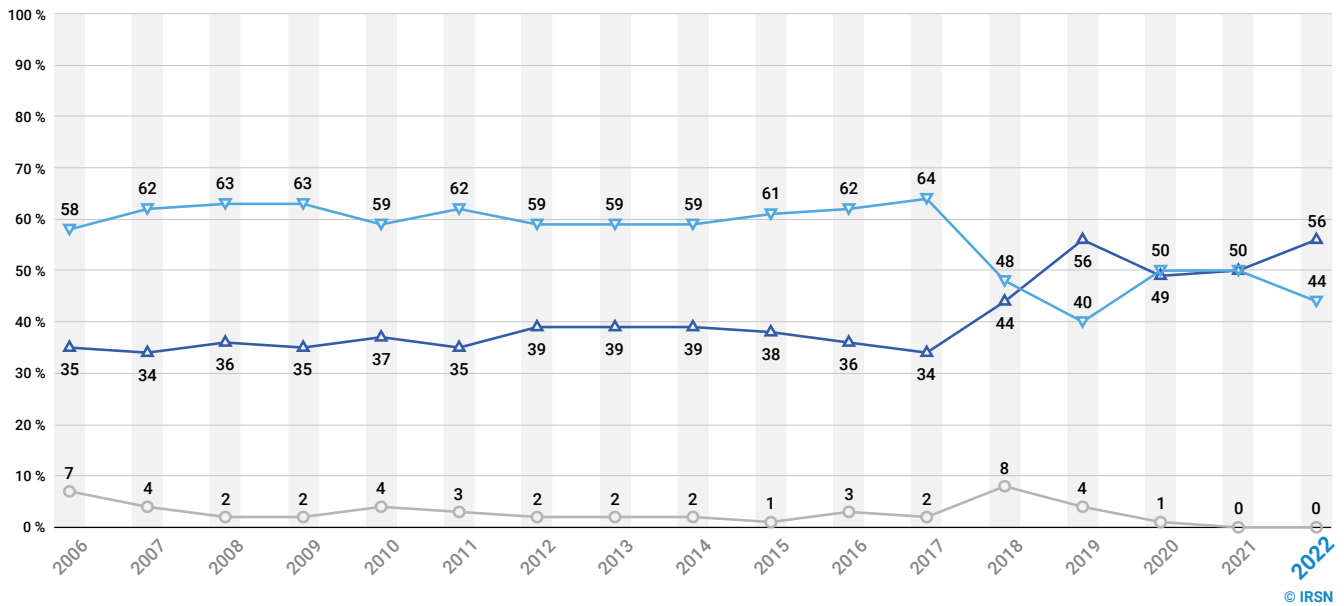
The answers "Yes, definitely" and "Yes, somewhat" were grouped together as "Yes"; the answers "No, not really" and "No, not at all" as "No".

QUESTION No. 9 (CONT.)

Here are a number of reasons why the results of a scientific expertise might not be made public. For each one, please indicate on the following scale whether this is a good reason.

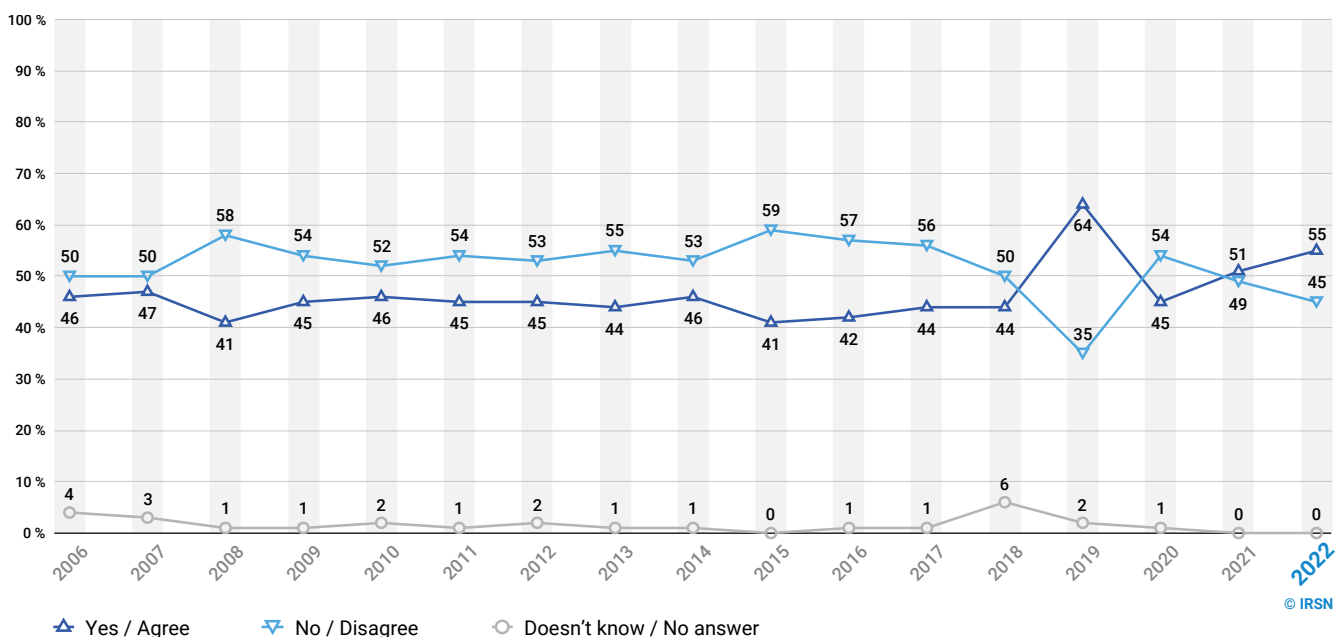
→ EVOLUTION OF THE RESULTS 2006-2022 (IN %)

5 - Trade secret*



* In 2020, the proposal "Industrial property" was replaced by "Trade secret".

6 - The impossibility to express the results in terms understandable by the public



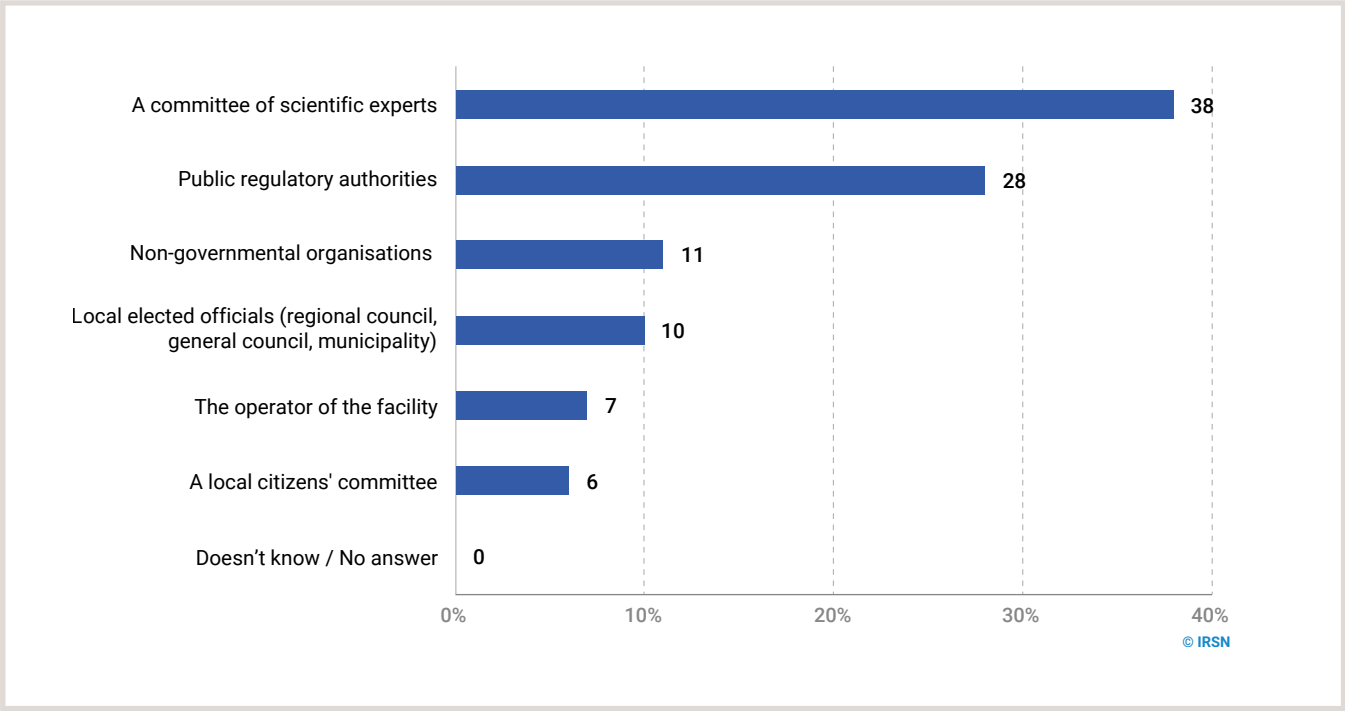
Yes / Agree No / Disagree Doesn't know / No answer

The answers "Yes, definitely" and "Yes, somewhat" were grouped together as "Yes"; the answers "No, not really" and "No, not at all" as "No".

QUESTION
No. 10

Regarding the oversight of the impact of an installation that poses risks to the environment and neighboring populations, who do you think should control the environmental and health impact outside the installation? (one answer only)

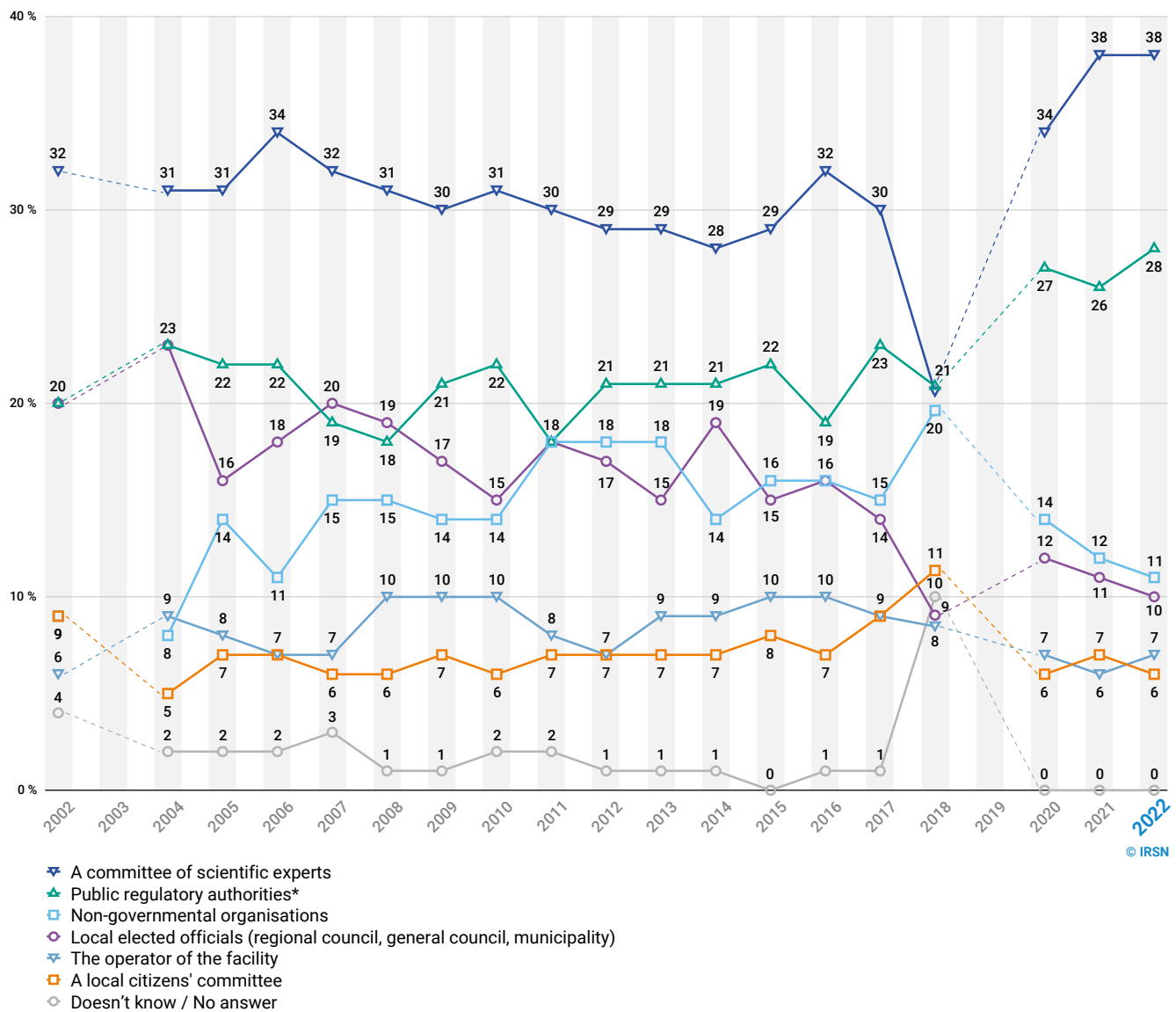
→ NOVEMBER 2022 (IN %)



QUESTION No. 10 (CONT.)

Regarding the oversight of the impact of an installation that poses risks to the environment and neighboring populations, who do you think should control the environmental and health impact outside the installation? (one answer only)

→ EVOLUTION OF THE RESULTS 2002-2022 (IN %)



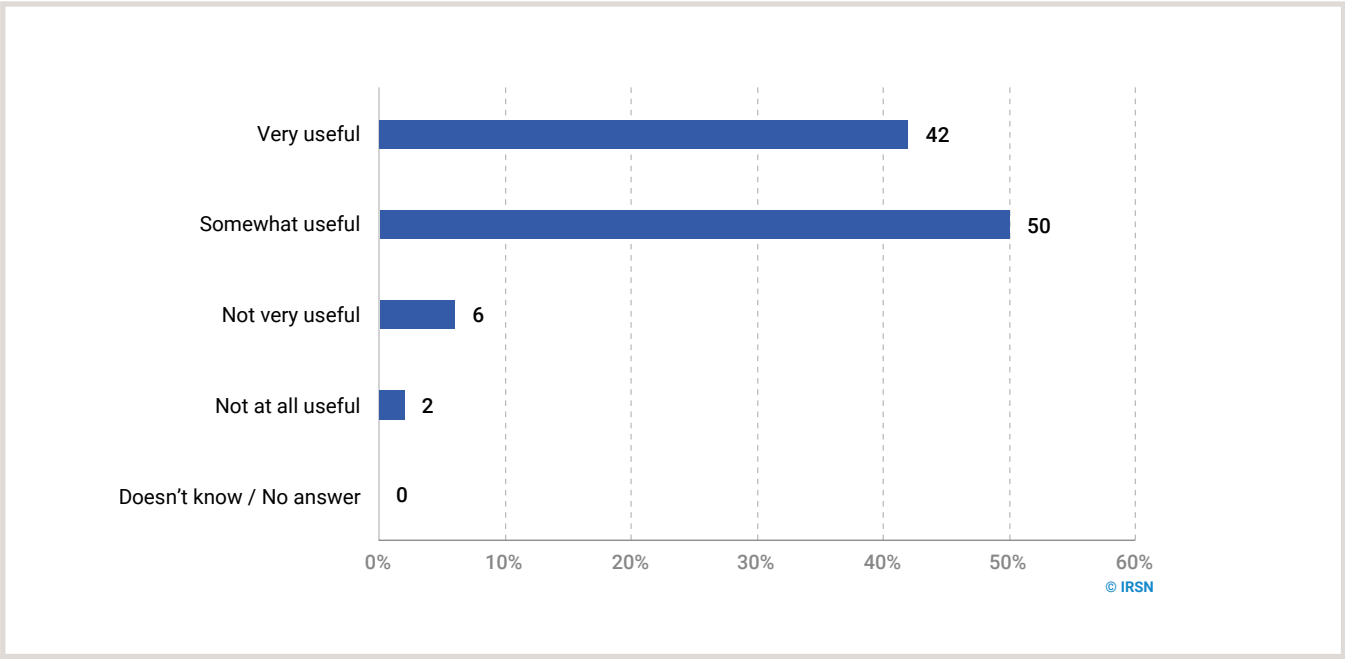
* In 2020, the wording of the question was: "For an installation that poses risks to the environment and neighbouring populations, who do you think should control what happens outside the installation?". In addition, the response "Public authorities at national and local levels" was replaced by "Public regulatory authorities".

In 2019, the way the question was asked was different: the French expressed their opinions on each actor independently of the others. The specific results for that year can be downloaded from <https://barometre.irsnn.fr>.

QUESTION
No. 11

A commission bringing together scientific experts, elected representatives, operators, NGOs, citizens and whose aim would be to deal with at-risk situations would be in your opinion...

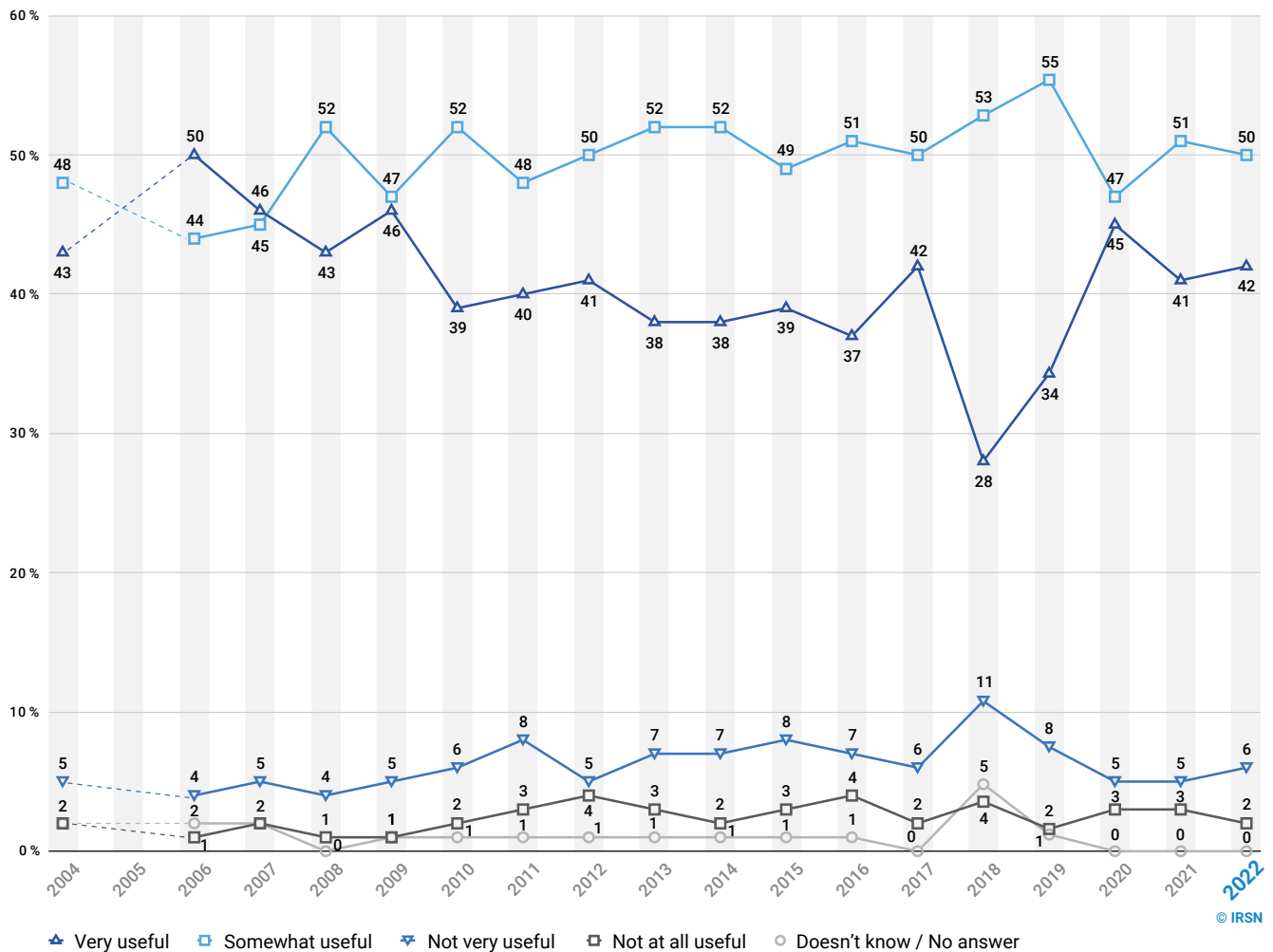
→ NOVEMBER 2022 (IN %)



QUESTION No. 11 (CONT.)

A commission bringing together scientific experts, elected representatives, operators, NGOs, citizens and whose aim would be to deal with at-risk situations would be in your opinion...

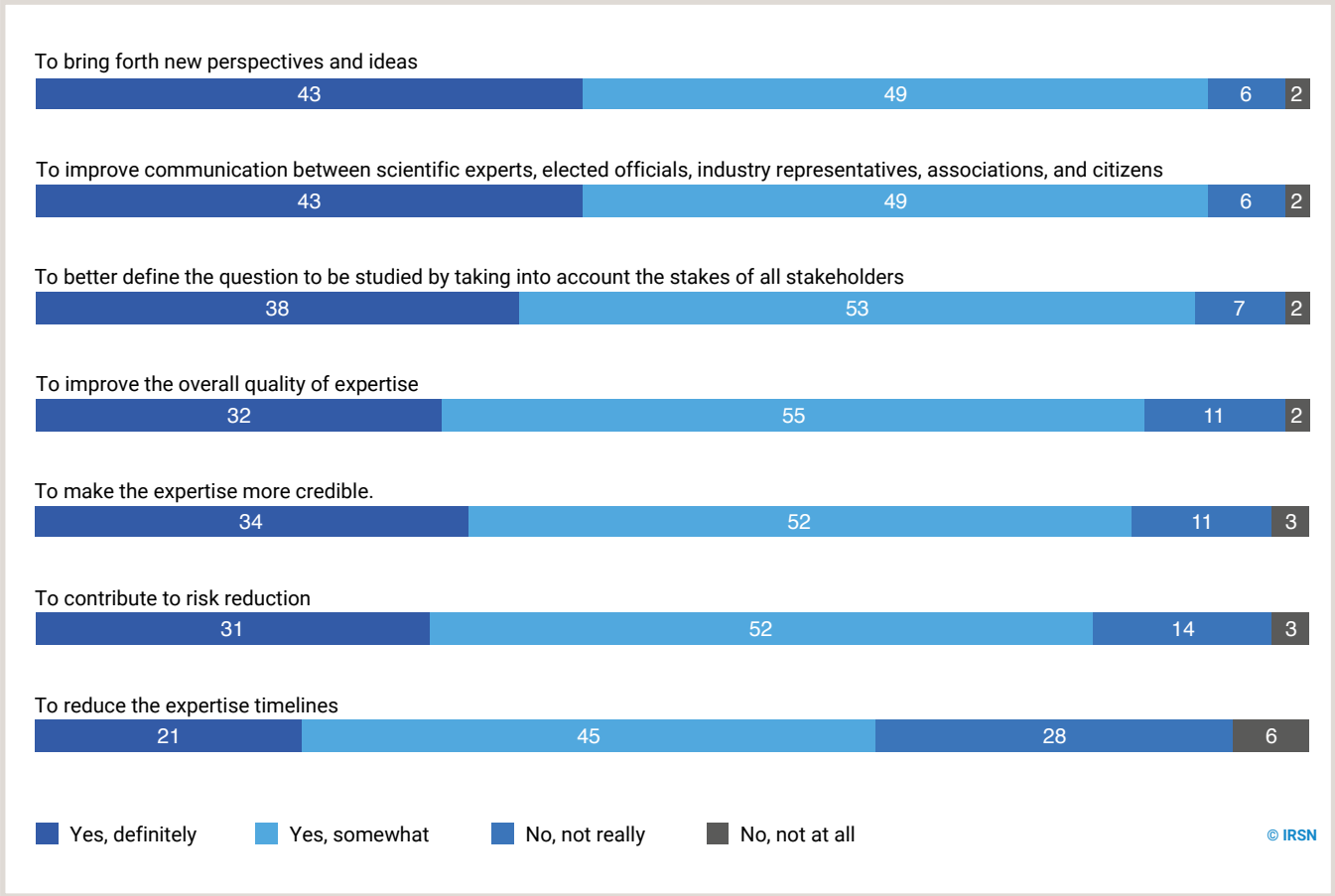
→ EVOLUTION OF THE RESULTS 2004-2022 (IN %)



QUESTION
No. 12

In your opinion, such a commission bringing together scientific experts, elected representatives, operators, NGOs, citizens and whose aim would be to deal with at-risk situations would be able...

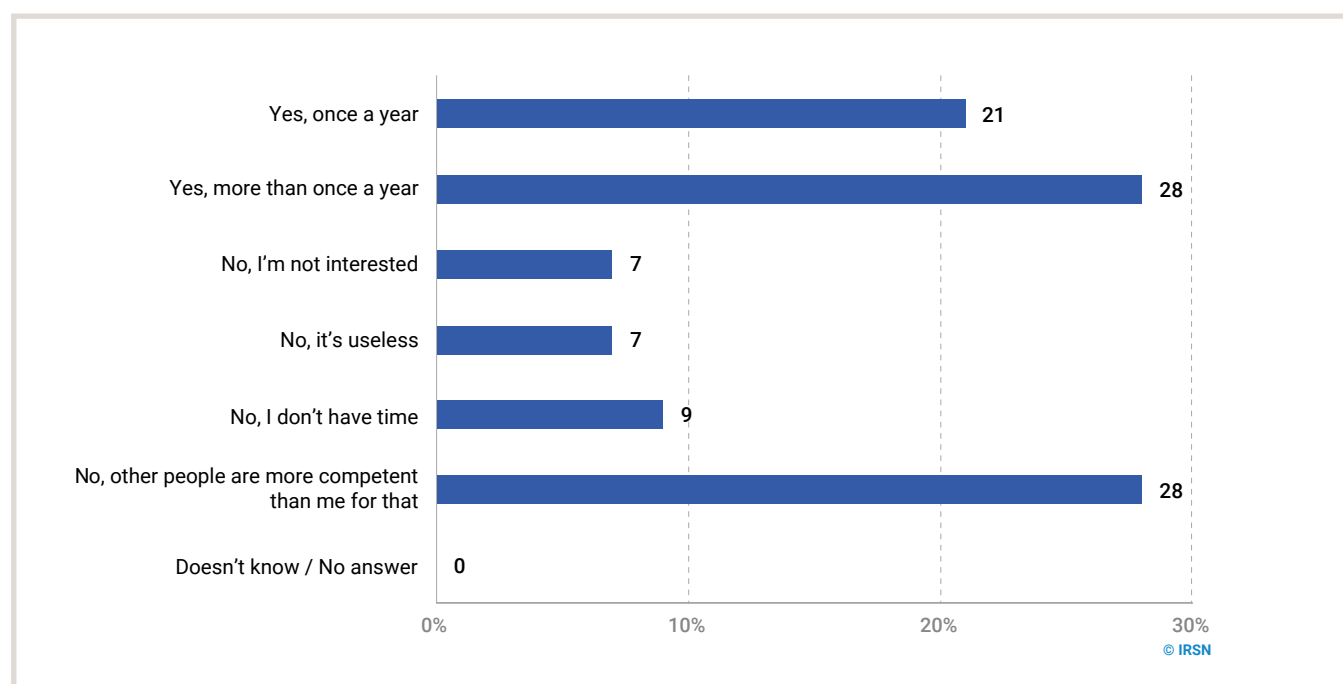
→ NOVEMBER 2022 (IN %)



**QUESTION
No. 13**

Would you be willing to spend time participating to information and consultation meetings on the management of a high-risk installation near your home?

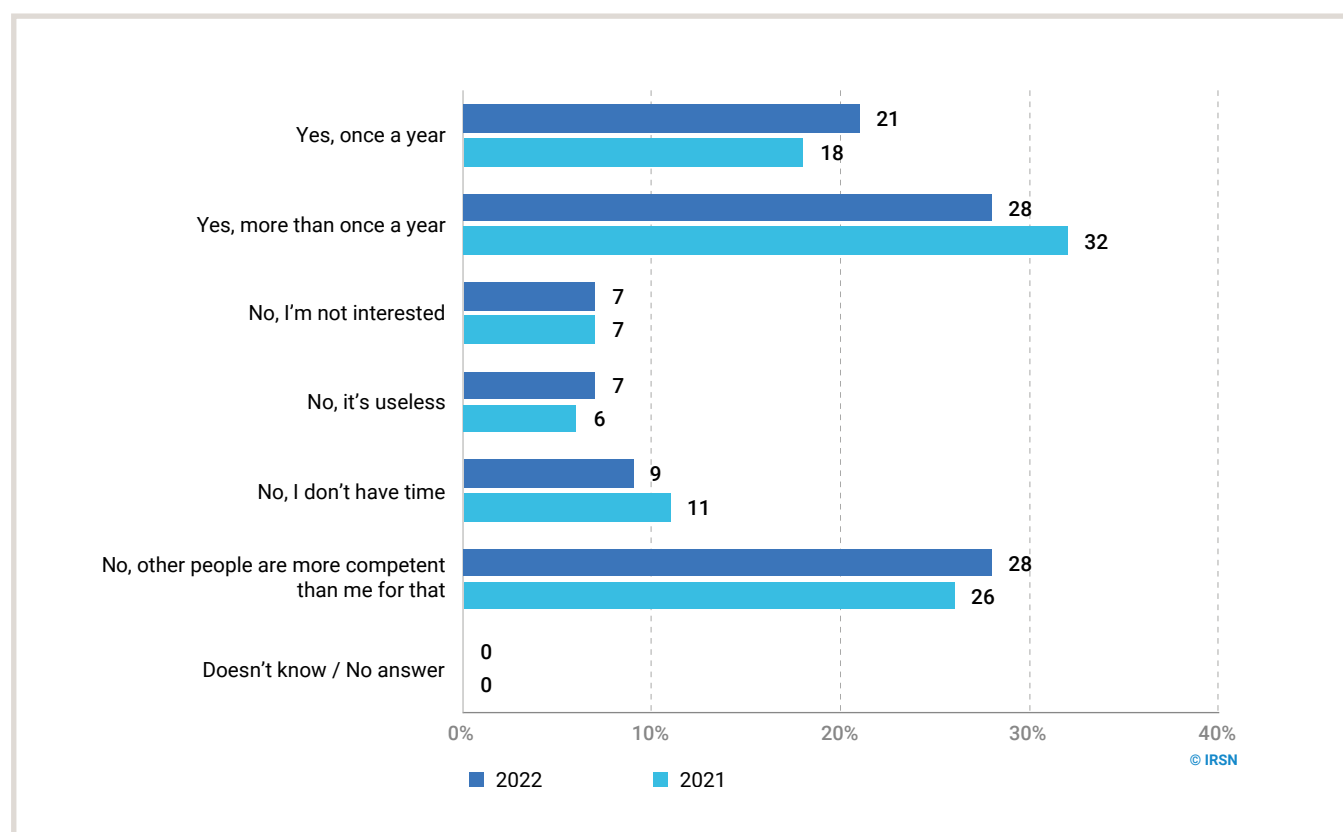
→ NOVEMBER 2022 (IN %)



QUESTION
No. 13
(CONT.)

Would you be willing to spend time participating to information and consultation meetings on the management of a high-risk installation near your home?*

→ EVOLUTION OF THE RESULTS 2021-2022 (IN %)

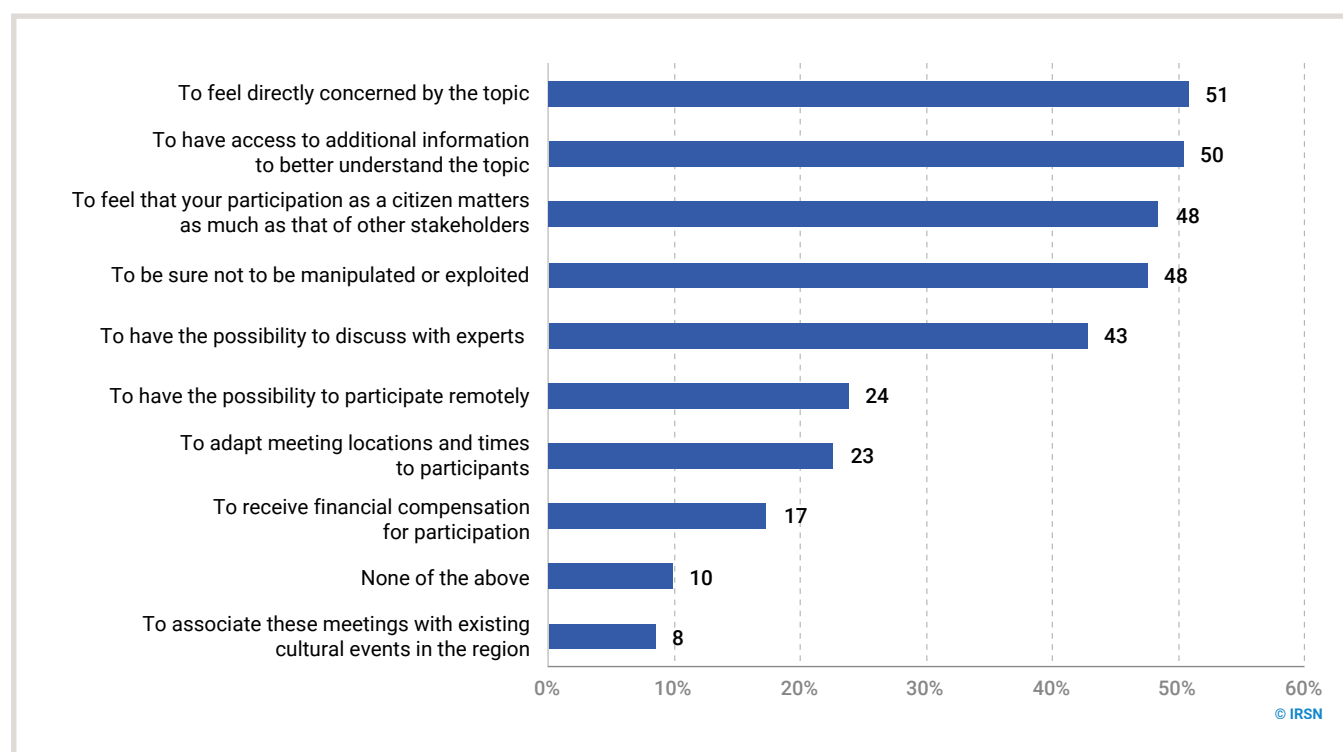


* This question has been asked before with other choices: "No", "Yes, once a year", "Yes twice or three times a year", "Yes four times a year or more" and "Doesn't know/No answer". Results are available on: <https://barometre.irsn.fr/graphiques>.

QUESTION No. 14

In the following list, what could encourage you to make your point of view be heard before a public decision is made?*

→ NOVEMBER 2022 (IN %)

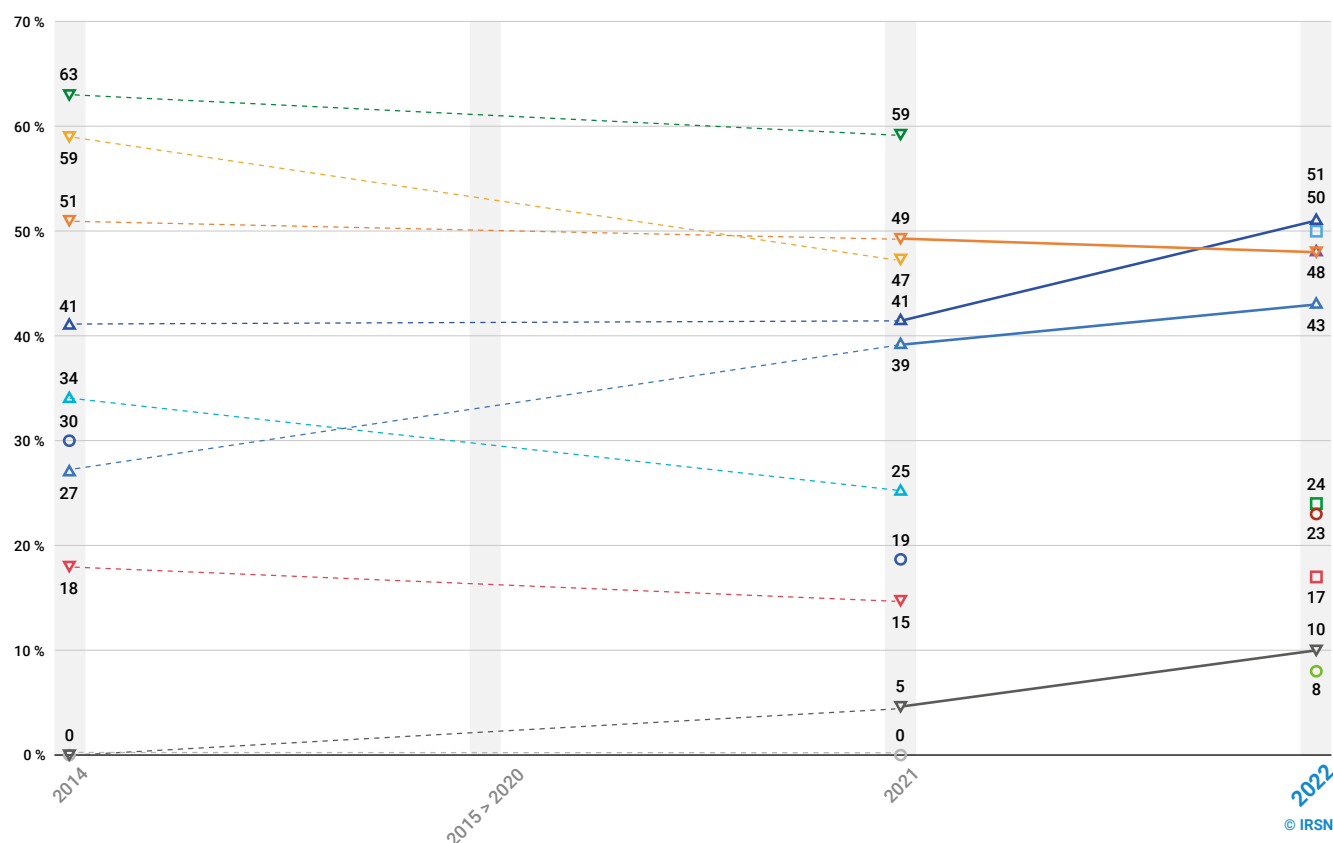


* Multiple answers possible.

QUESTION No. 14 (CONT.)

In the following list, what could encourage you to make your point of view be heard before a public decision is made?*

→ EVOLUTION OF THE RESULTS 2014-2021 (IN %)



- ▲ To feel directly concerned by the topic
- To have access to additional information to better understand the topic
- ✂ To be sure not to be manipulated or exploited
- ▲ To feel that your participation as a citizen matters as much as that of other stakeholders
- ▲ To have the possibility to discuss with experts
- To have the possibility to participate remotely
- ◇ To adapt meeting locations and times to participants
- To receive financial compensation for participation
- To associate these meetings with existing cultural events in the region
- ▼ To have all the necessary information to forge my opinion
- ✂ To be sure that my opinion will make a difference
- ▲ To know the different possibilities for expressing my opinion
- For the media to talk more about projects where one can express their opinion
- ✂ To notice that other around me are doing the same thing
- ✂ None of the above
- Doesn't know / No answer

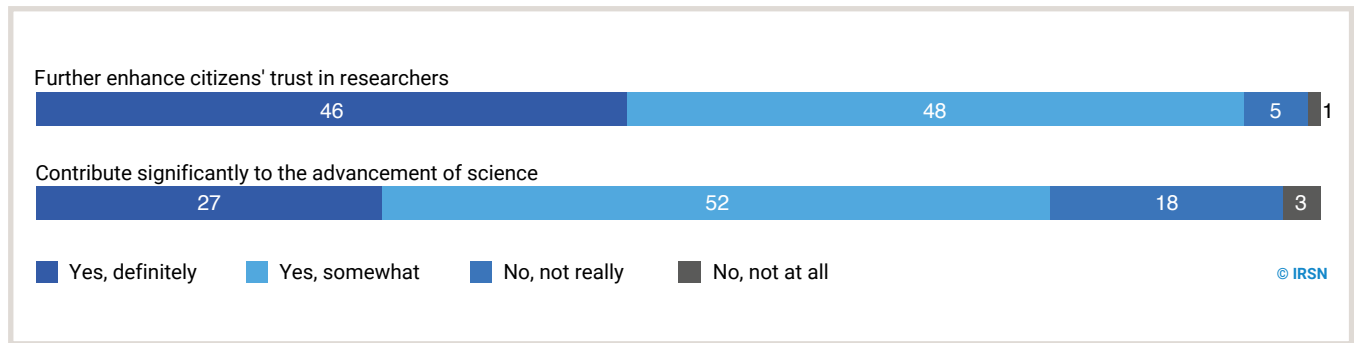
* Multiple answers possible.

The data from 2014 comes from the "Citizen and Public Decision" survey by TNS Soffres on behalf of the CNDP (National Commission for Public Debate). The possible answers have been adapted over the years. In 2022, the option "to be directly impacted by the decision" was replaced by "to feel directly concerned by the topic". The options "to have all the necessary information to forge my opinion", "to be sure that my opinion will make a difference", "to know the different possibilities for expressing my opinion", "for the media to talk more about projects where one can express their opinion" and "to notice that other around me are doing the same thing" were removed. The options "to feel that your participation as a citizen matters as much as that of other stakeholders", "to have access to additional information to better understand the topic", "to receive financial compensation for participation", "to have the possibility to participate remotely", "to adapt meeting locations and times to participants" and "to associate these meetings with existing cultural events in the region" were added.

QUESTION No. 15

Do you think that a collaboration between researchers and citizens at all stages of the research process (from formulating the research question to data collection, analysis, and dissemination of results) could...

→ NOVEMBER 2022 (IN %)





3 PART

THE OPINION OF THE FRENCH ON RISK SITUATIONS

53 – 73

The mains risks perceived
by the French

74 – 77

The risks perception for
oneself and one's relatives

78 – 98

The level of trust in the
authorities to protect them

99 – 100

The level of information
perceived by the French

101

Overview of risk situations

102 – 110

The acceptability of facilities

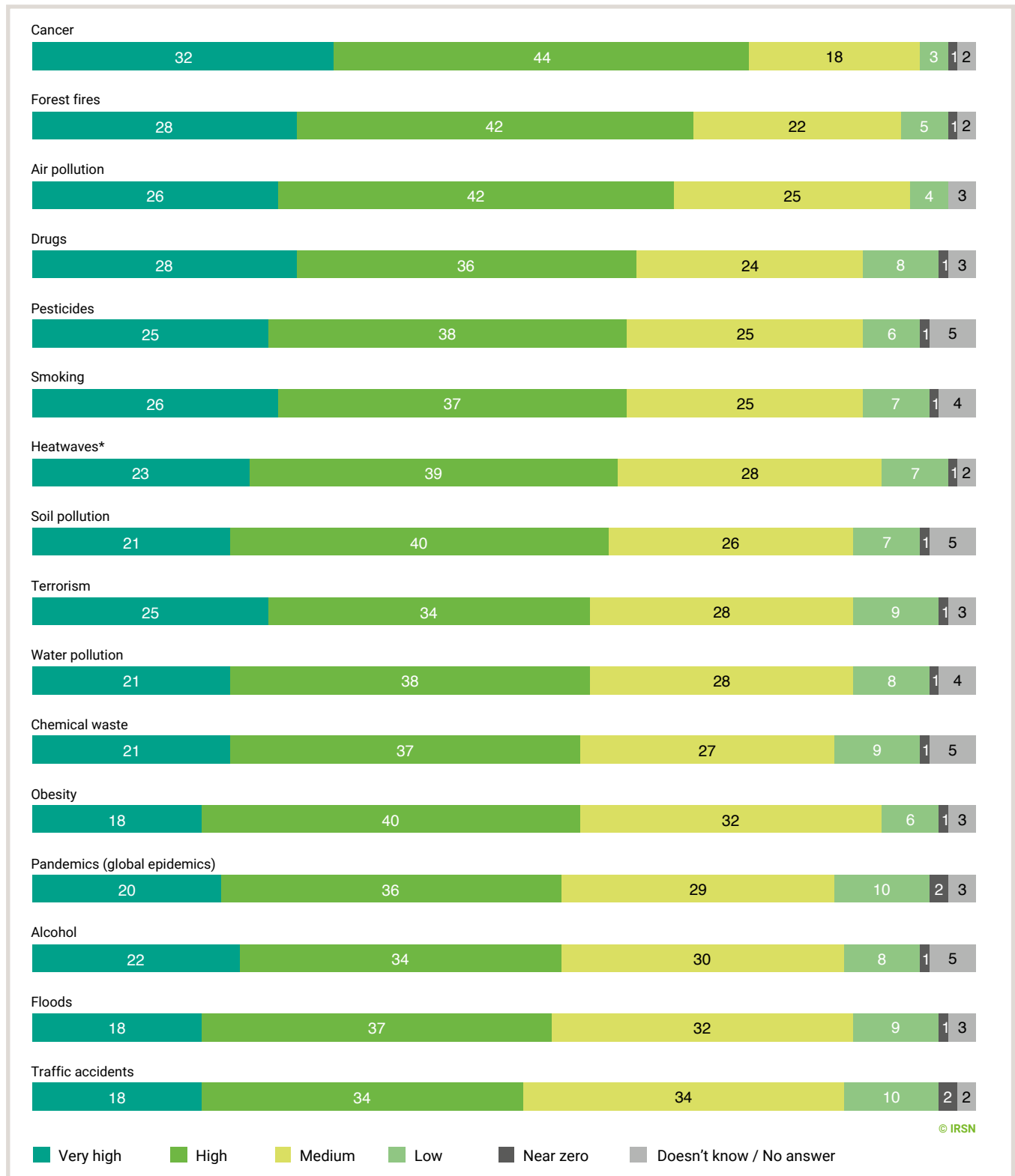
111 – 116

Word enunciations
for the term "Nuclear"

QUESTION No. 1

In each of the following areas, do you consider that the risks for the French population in general are...

→ NOVEMBER 2022 (IN %)

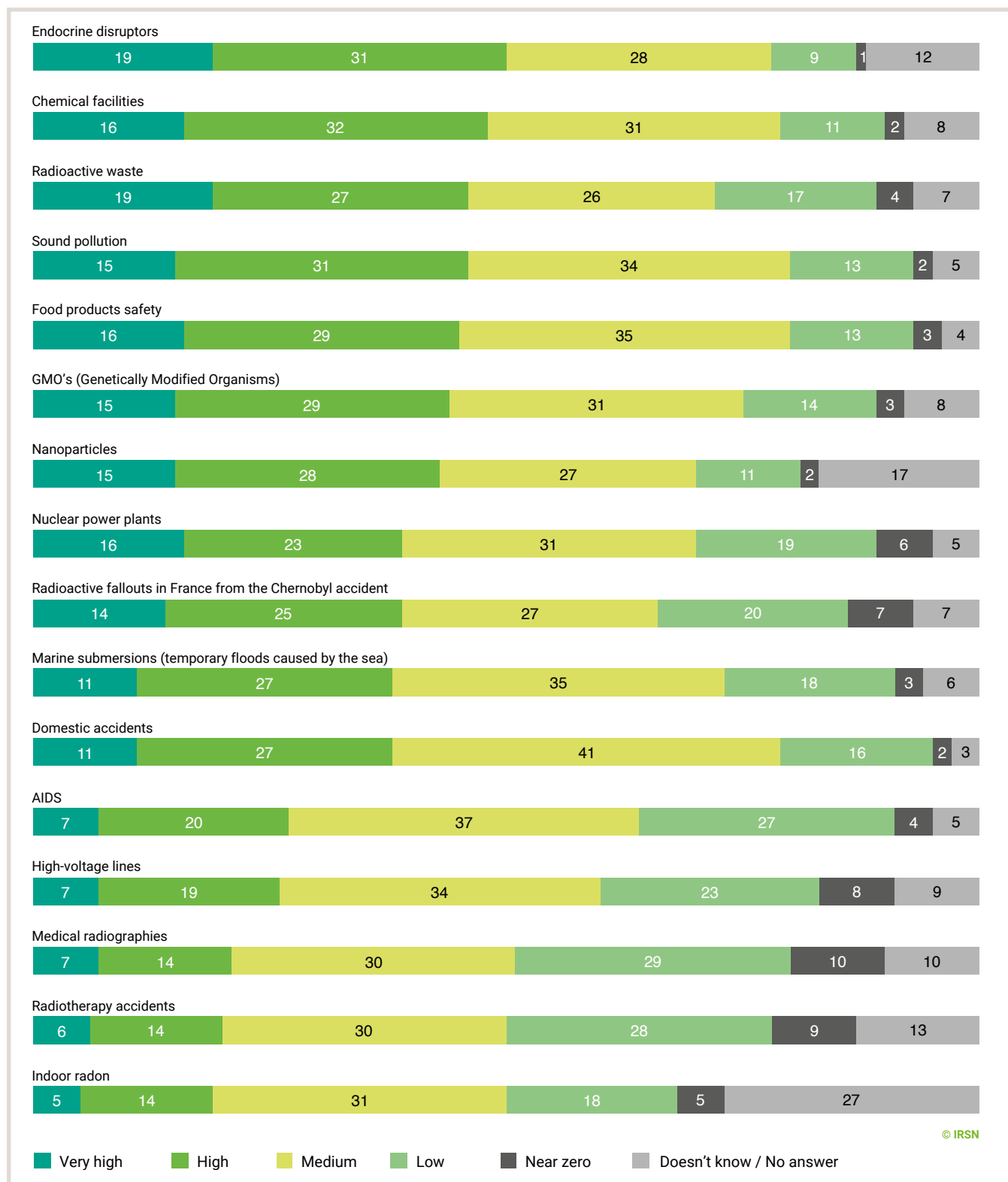


The option "Don't know/No answer" represents the sum of "I don't know" and the lack of response.

QUESTION No.1 (CONT.)

In each of the following areas, do you consider that the risks for the French population in general are...

→ NOVEMBER 2022 (IN %)



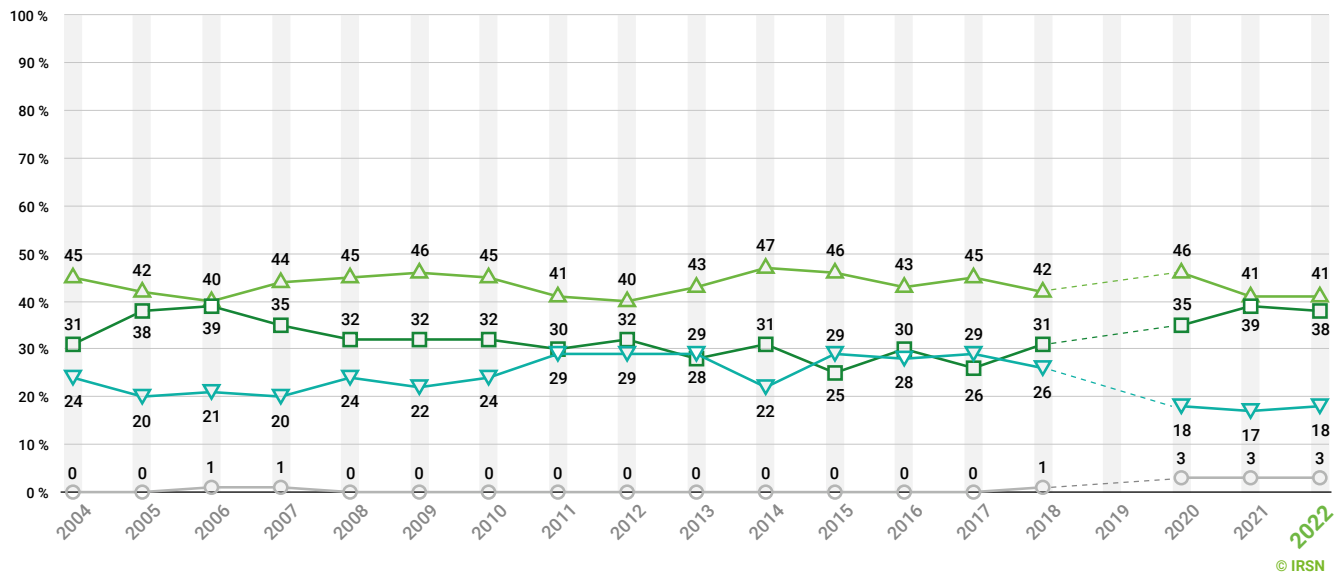
The option "Don't know/No answer" represents the sum of "I don't know" and the lack of response.

QUESTION No. 1 (CONT.)

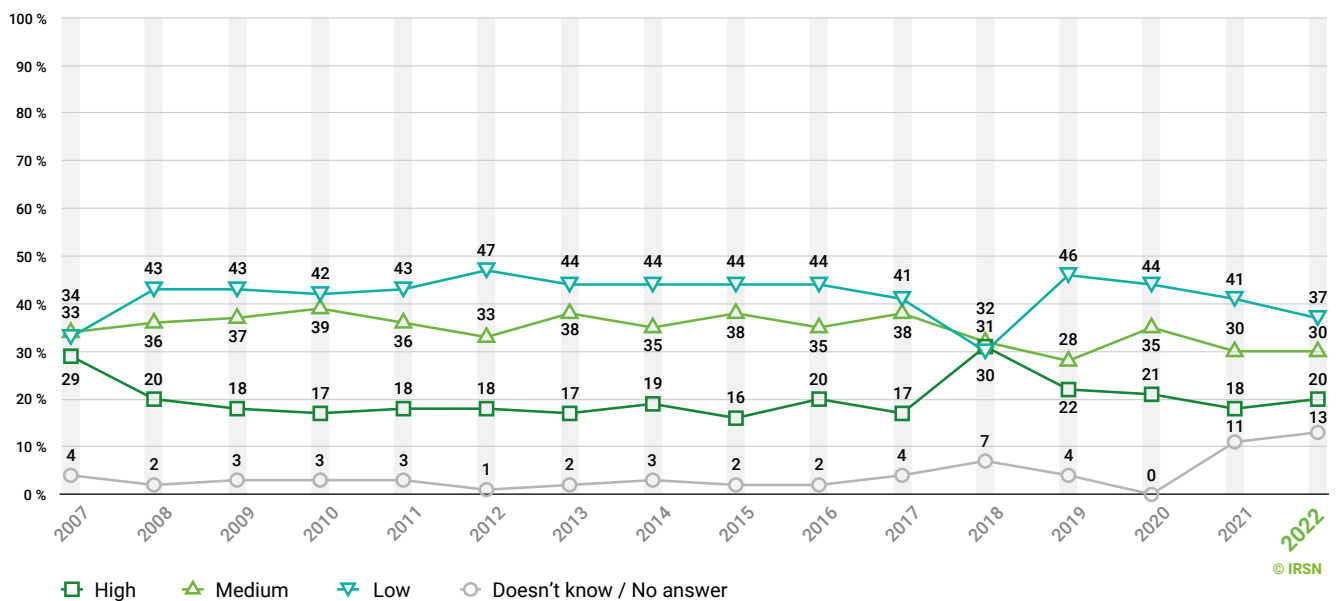
In each of the following areas, do you consider that the risks for the French population in general are...

→ EVOLUTION OF THE RESULTS 2004-2022 (IN %)

1 - Domestic accidents



2 - Radiotherapy accidents



In 2021 and 2022, the questions "medical risks", "hazardous materials transportation", "work-related illnesses", "mobile phone relay antennas", "household waste incinerators" were not surveyed but they are still represented this year.

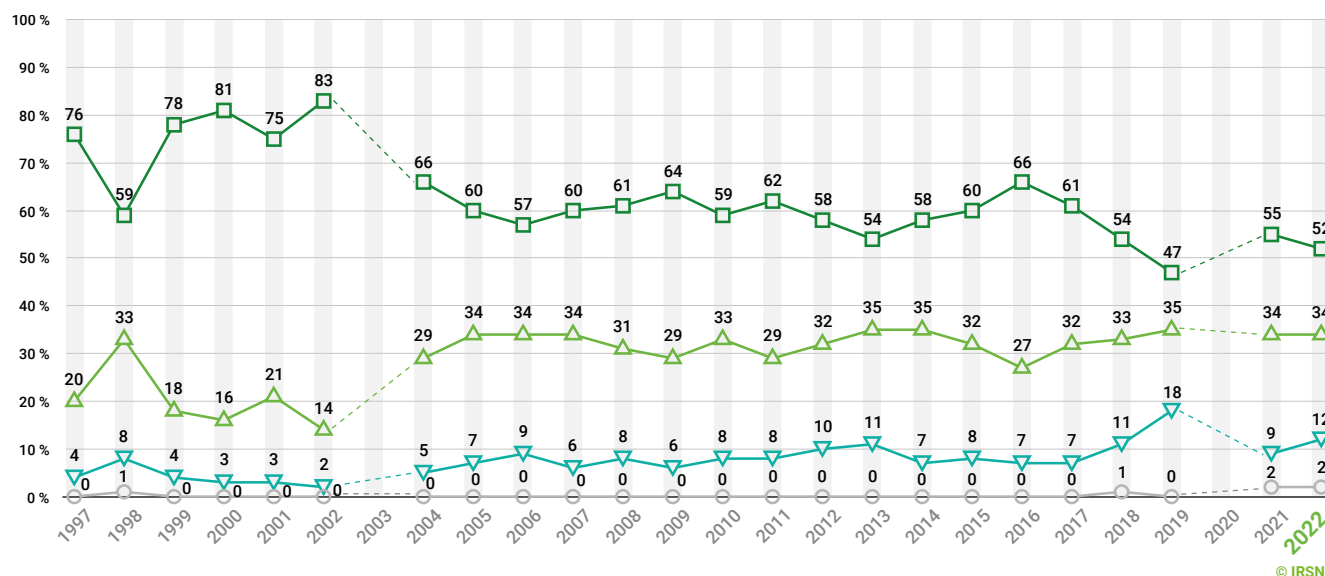
The answers "Very high" and "High" were grouped into "High"; "Near-zero" and "Low" responses into "Low".

QUESTION No.1 (CONT.)

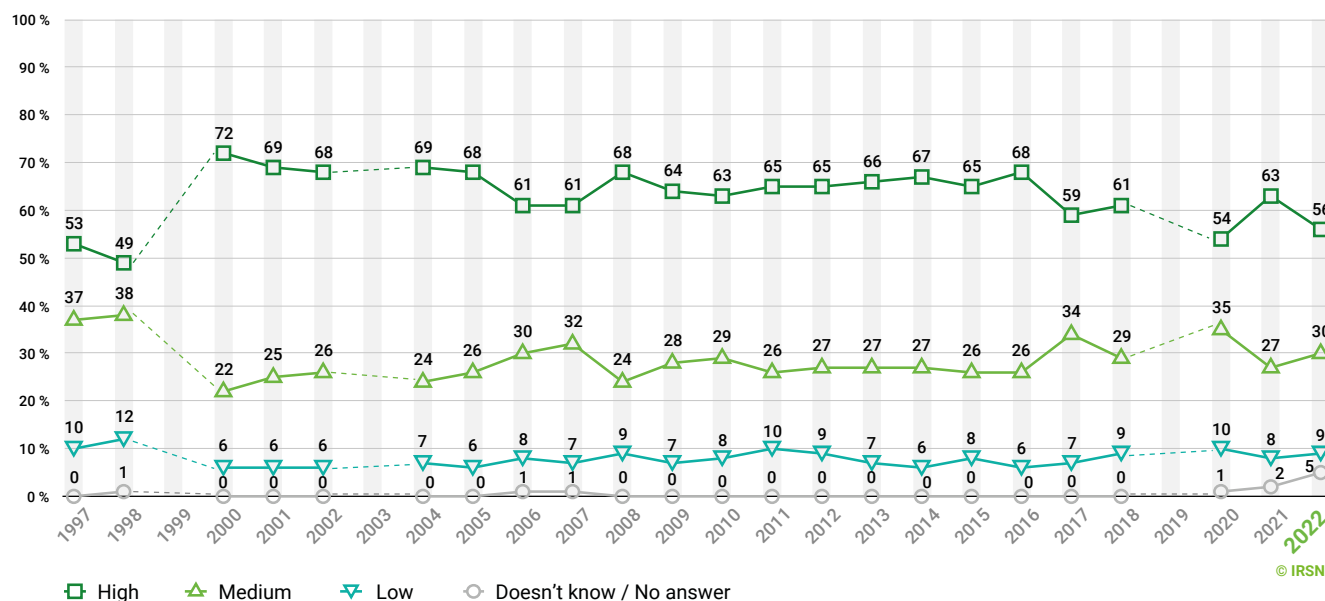
In each of the following areas, do you consider that the risks for the French population in general are...

→ EVOLUTION OF THE RESULTS 1997-2022 (IN %)

3 - Traffic accidents



4 - Alcohol*



* In 2020, "Alcoholism" was replaced by "Alcohol".

In 2021 and 2022, the questions "medical risks", "hazardous materials transportation", "work-related illnesses", "mobile phone relay antennas", "household waste incinerators" were not surveyed but they are still represented this year.

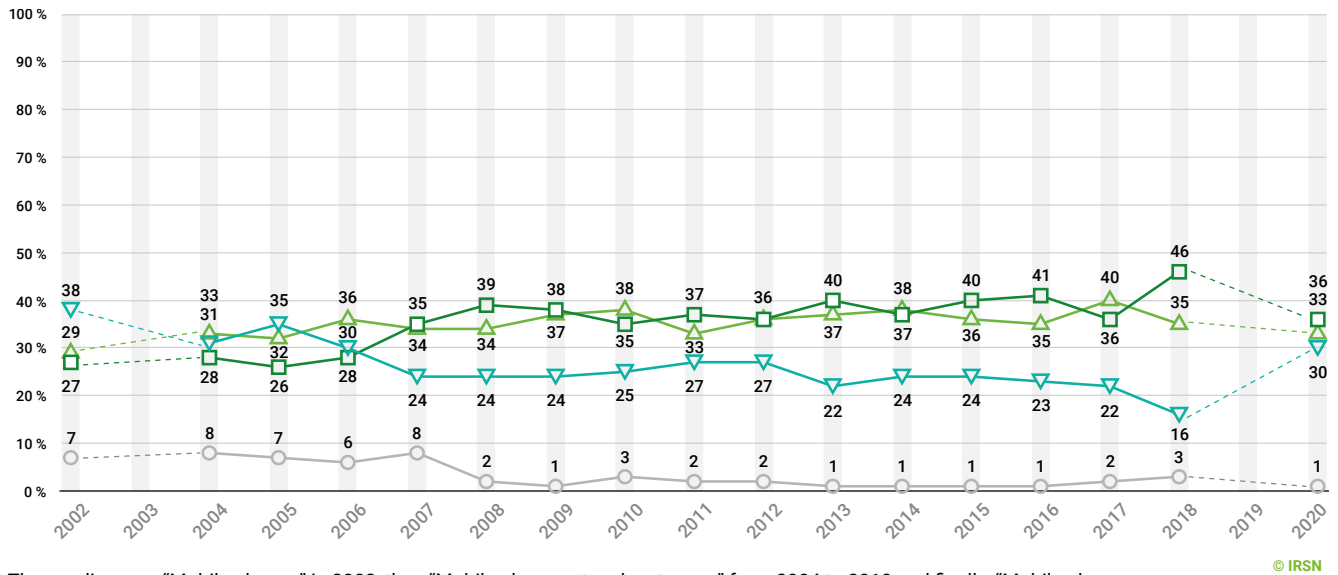
The answers "Very high" and "High" were grouped into "High"; "Near-zero" and "Low" responses into "Low".

QUESTION No.1 (CONT.)

In each of the following areas, do you consider that the risks for the French population in general are...

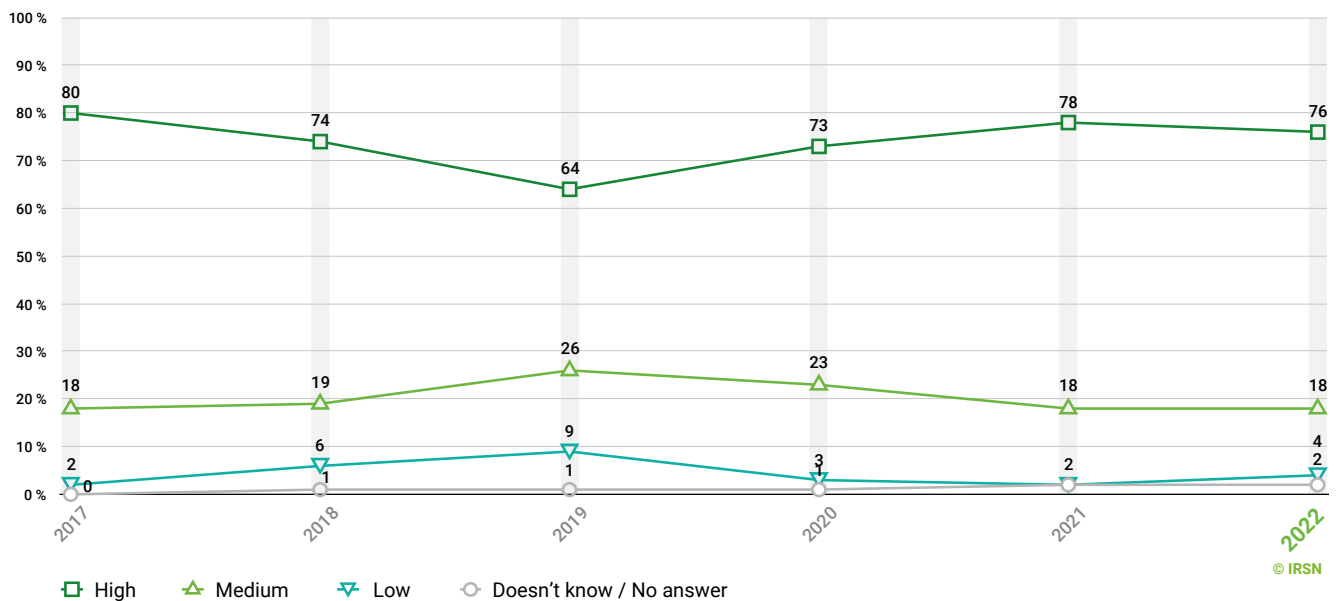
→ EVOLUTION OF THE RESULTS 2002-2022 (IN %)

5 - Mobile phone relay antennas*



* The wording was "Mobile phones" in 2002, then "Mobile phone network antennas" from 2004 to 2018 and finally, "Mobile phone relay antennas" since 2020.

6 - Cancer



In 2021 and 2022, the questions "medical risks", "hazardous materials transportation", "work-related illnesses", "mobile phone relay antennas", "household waste incinerators" were not surveyed but they are still represented this year.

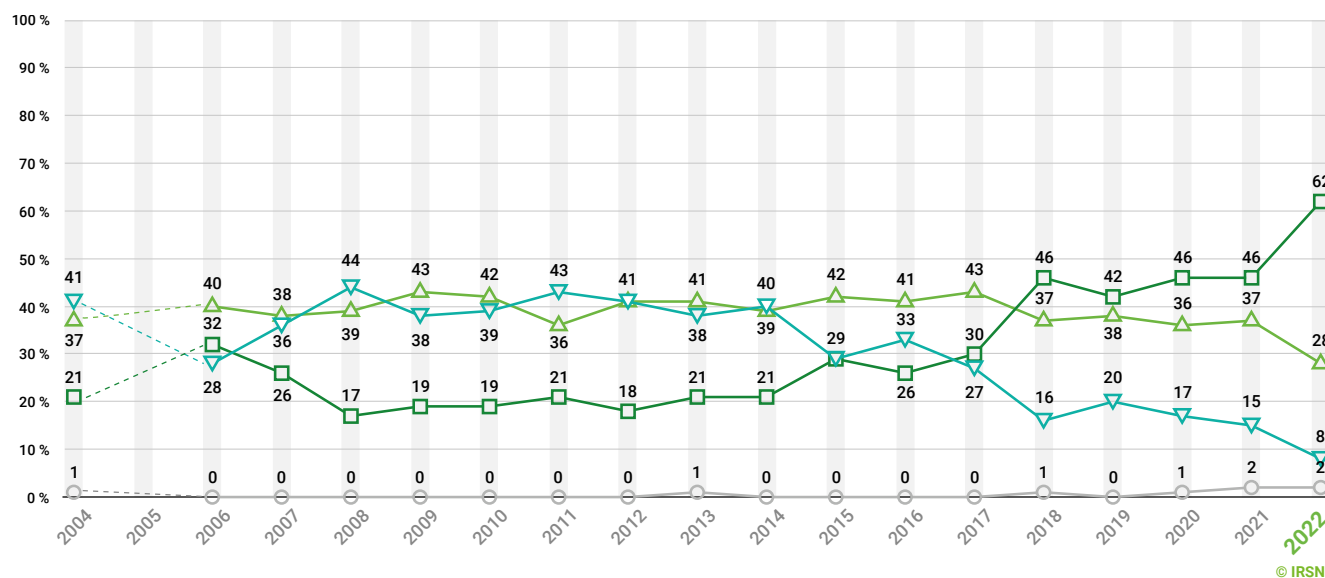
The answers "Very high" and "High" were grouped into "High"; "Near-zero" and "Low" responses into "Low".

QUESTION No.1 (CONT.)

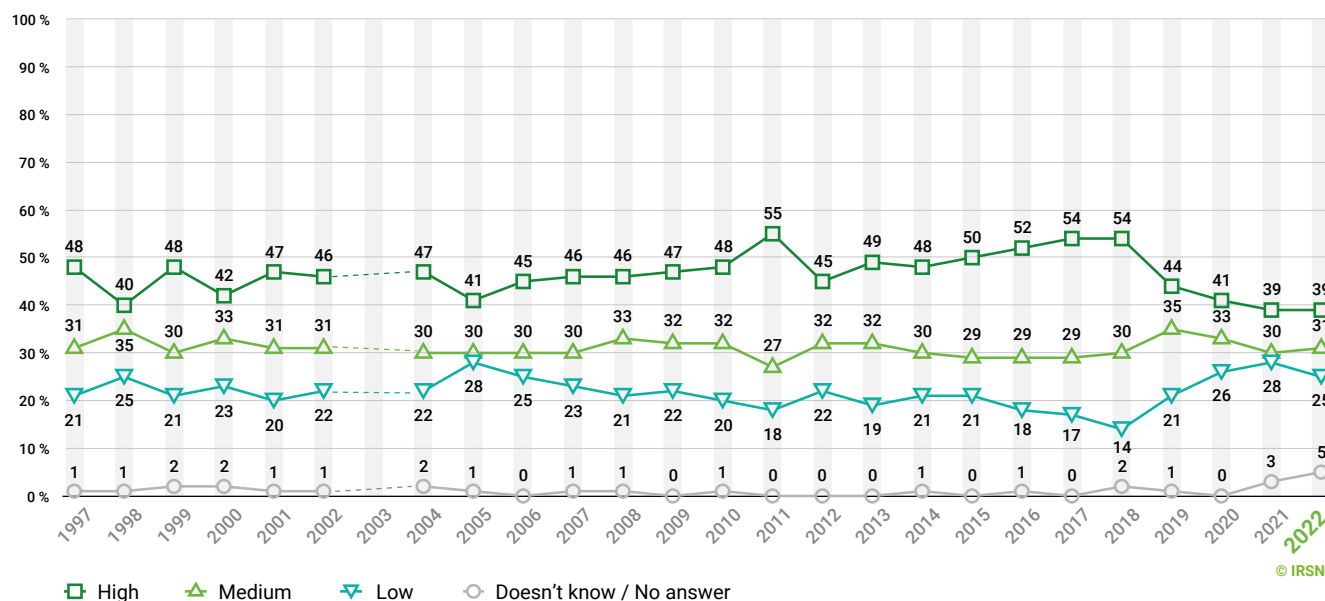
In each of the following areas, do you consider that the risks for the French population in general are...

→ EVOLUTION OF THE RESULTS 1997-2022 (IN %)

7 - Heatwaves*



8 - Nuclear power plants



In 2021 and 2022, the questions "medical risks", "hazardous materials transportation", "work-related illnesses", "mobile phone relay antennas", "household waste incinerators" were not surveyed but they are still represented this year.

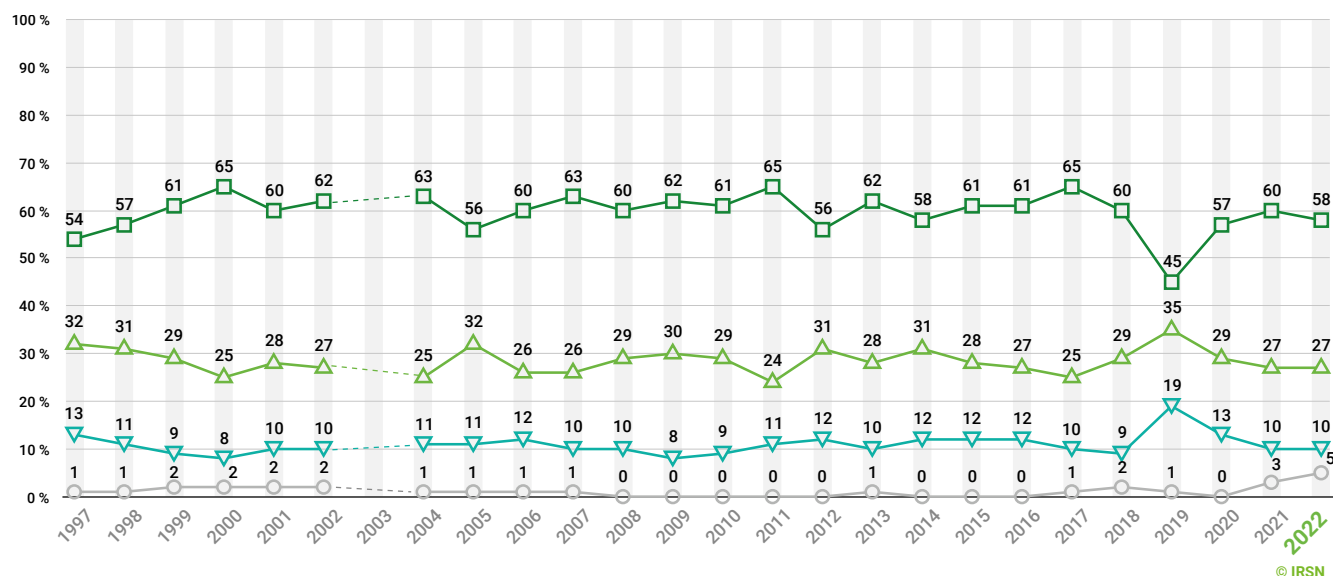
The answers "Very high" and "High" were grouped into "High"; "Near-zero" and "Low" responses into "Low".

QUESTION No.1 (CONT.)

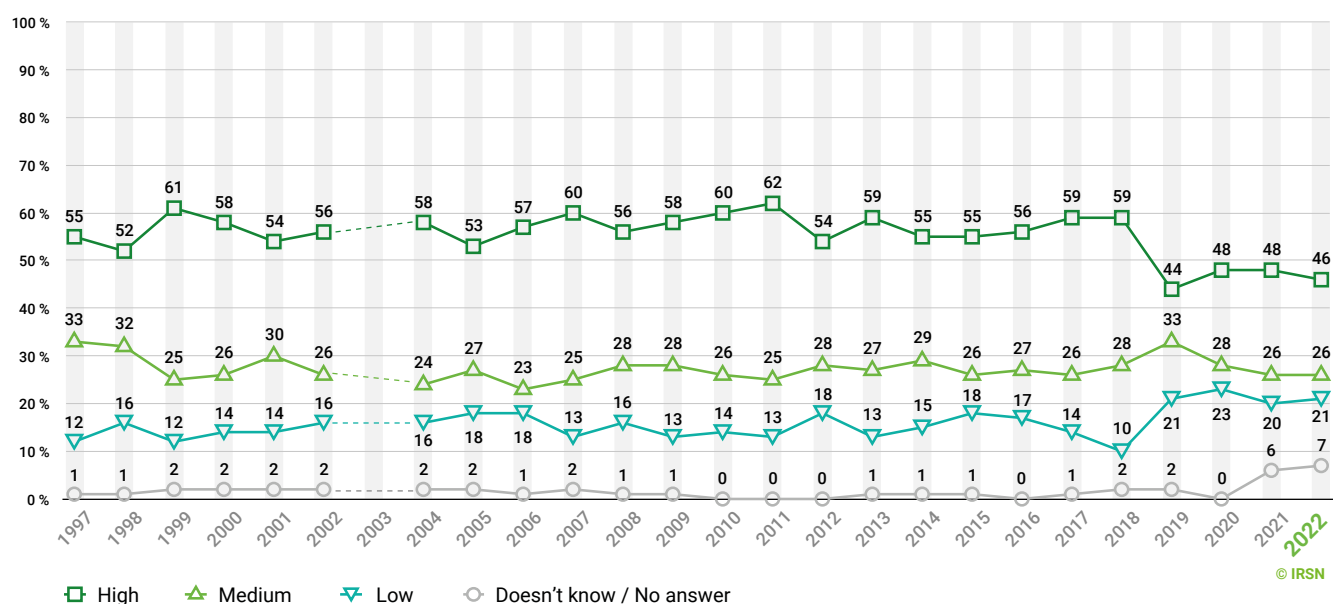
In each of the following areas, do you consider that the risks for the French population in general are...

→ EVOLUTION OF THE RESULTS 1997-2022 (IN %)

9 - Chemical waste



10 - Radioactive waste



In 2021 and 2022, the questions "medical risks", "hazardous materials transportation", "work-related illnesses", "mobile phone relay antennas", "household waste incinerators" were not surveyed but they are still represented this year.

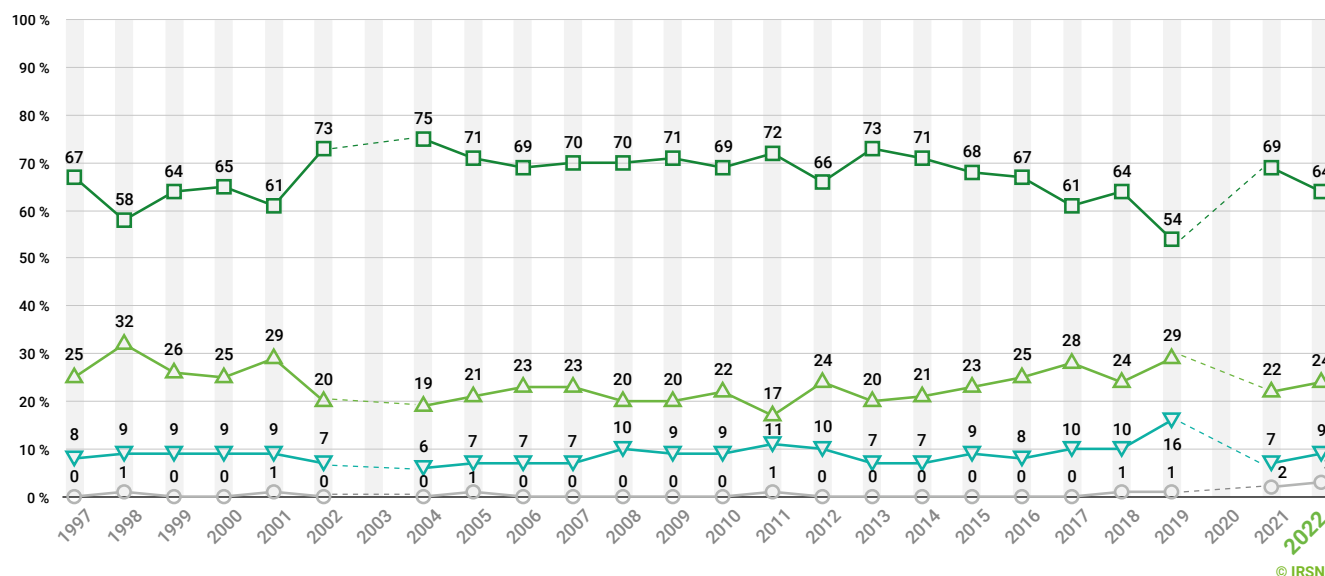
The answers "Very high" and "High" were grouped into "High"; "Near-zero" and "Low" responses into "Low".

QUESTION No.1 (CONT.)

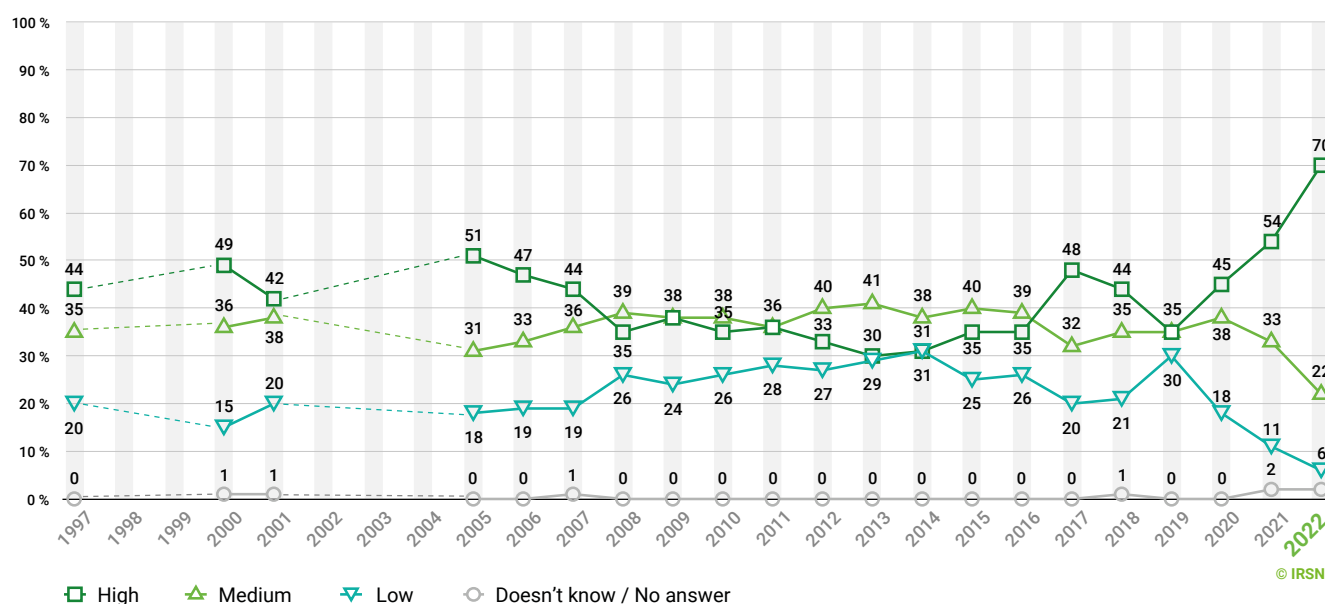
In each of the following areas, do you consider that the risks for the French population in general are...

→ EVOLUTION OF THE RESULTS 1997-2022 (IN %)

11 - Drugs



12 - Forest fires



In 2021 and 2022, the questions "medical risks", "hazardous materials transportation", "work-related illnesses", "mobile phone relay antennas", "household waste incinerators" were not surveyed but they are still represented this year.

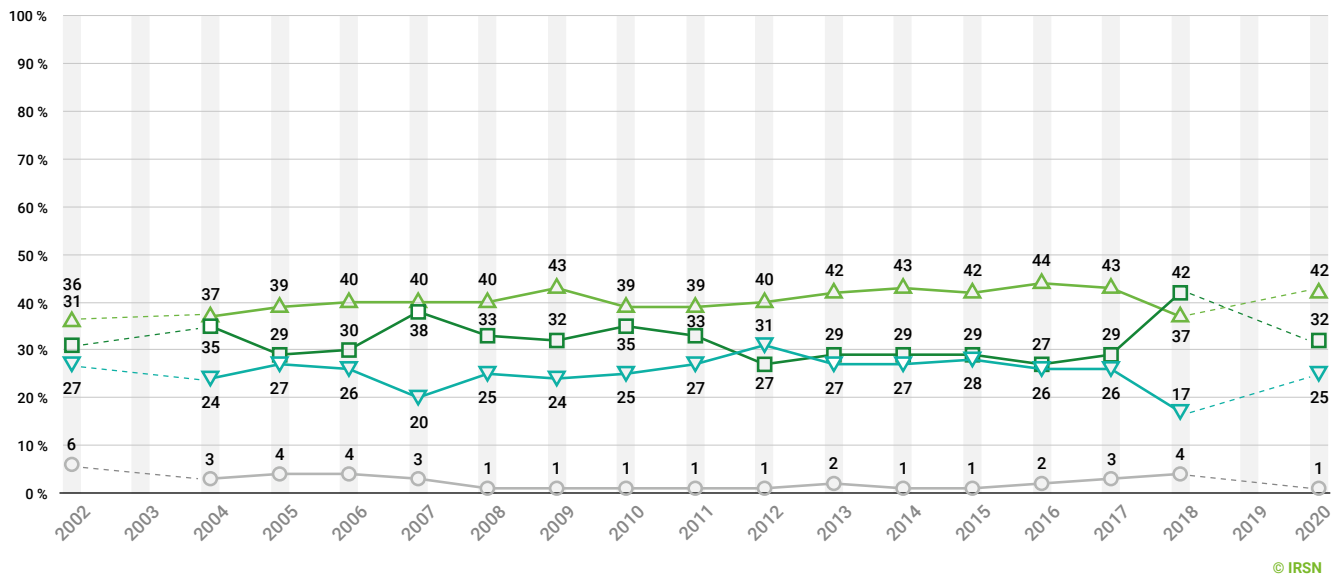
The answers "Very high" and "High" were grouped into "High"; "Near-zero" and "Low" responses into "Low".

QUESTION No.1 (CONT.)

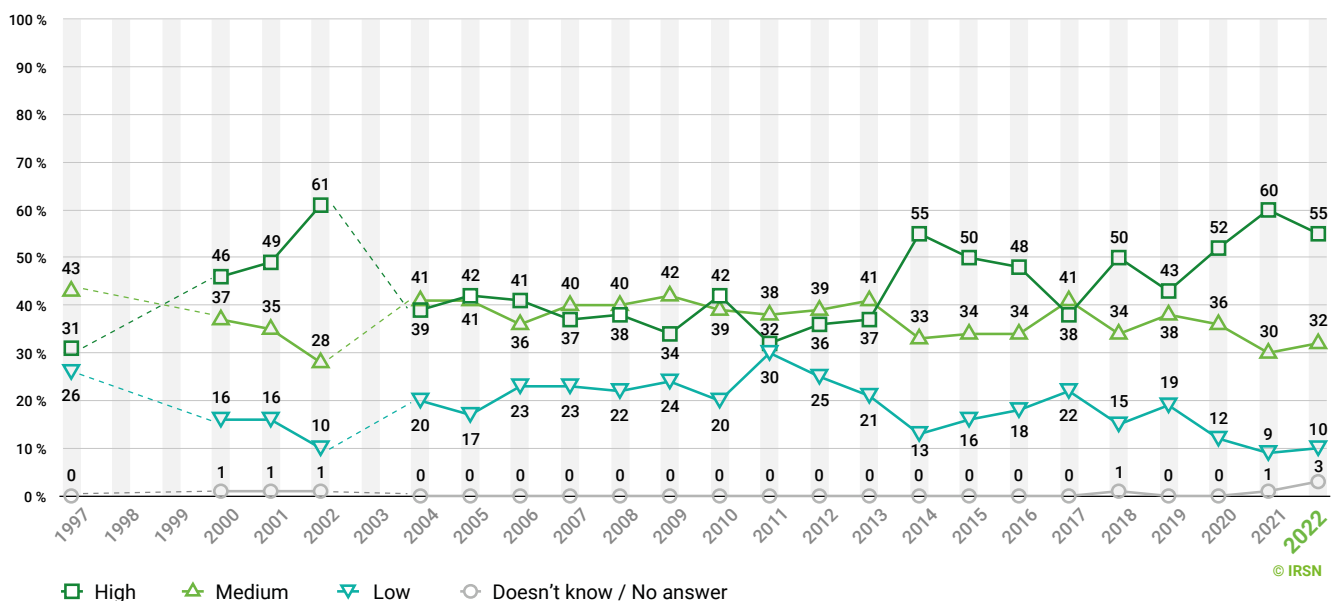
In each of the following areas, do you consider that the risks for the French population in general are...

→ EVOLUTION OF THE RESULTS 1997-2022 (IN %)

13 - Household waste incinerators



14 - Floods



In 2021 and 2022, the questions "medical risks", "hazardous materials transportation", "work-related illnesses", "mobile phone relay antennas", "household waste incinerators" were not surveyed but they are still represented this year.

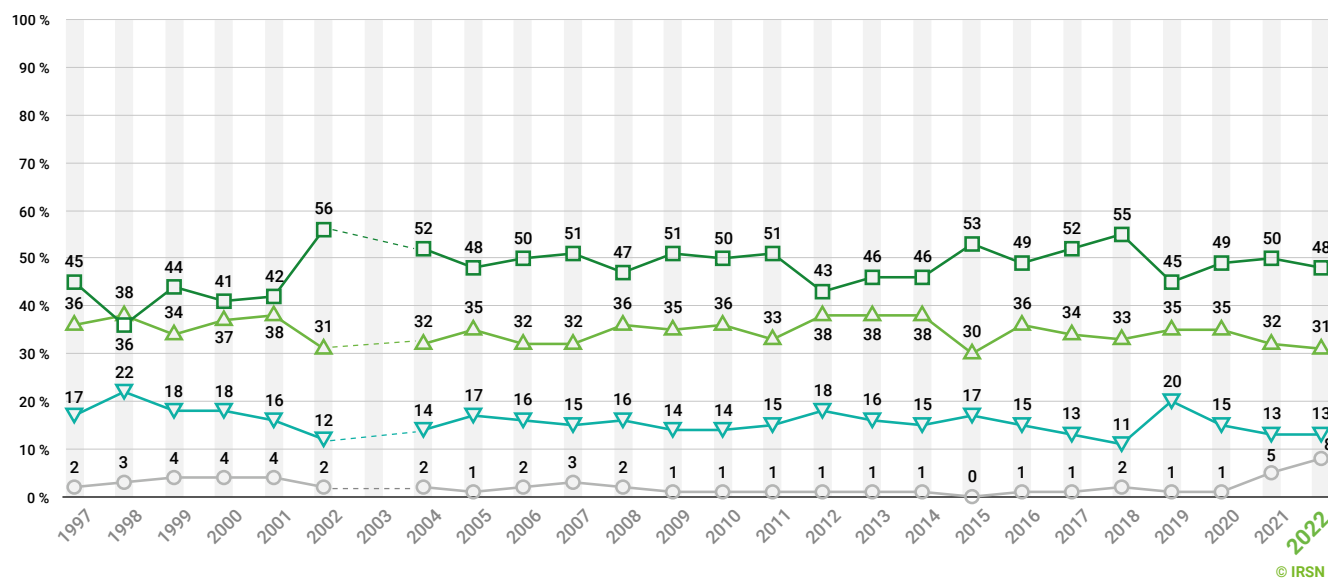
The answers "Very high" and "High" were grouped into "High"; "Near-zero" and "Low" responses into "Low".

QUESTION No.1 (CONT.)

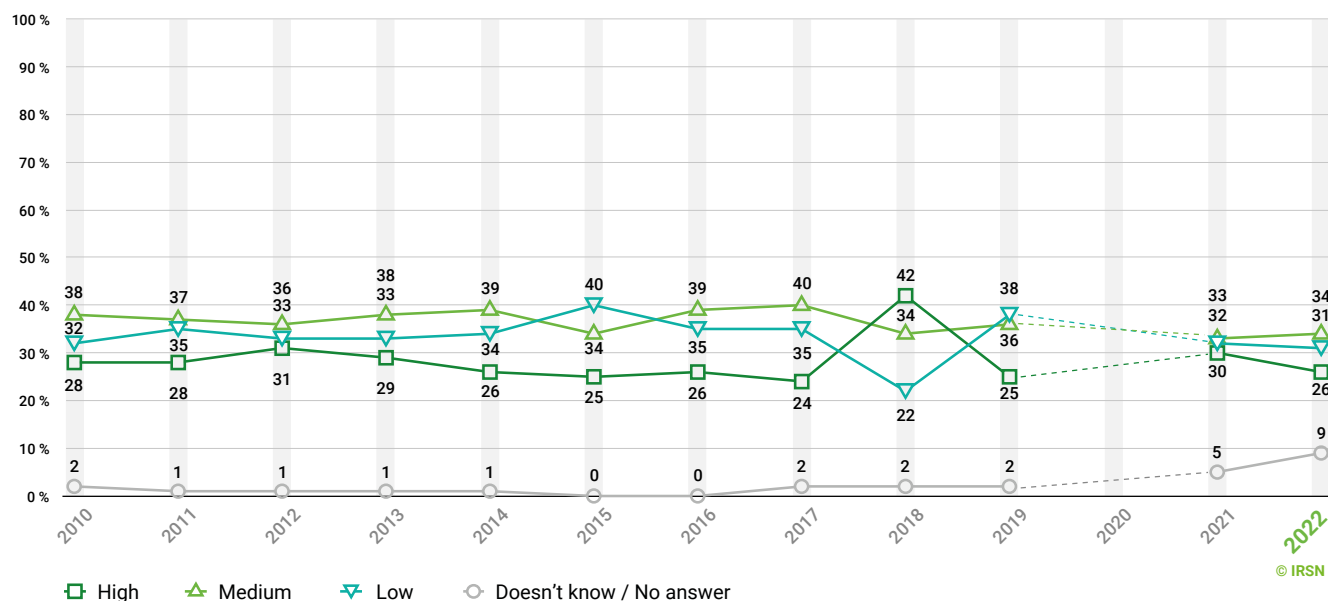
In each of the following areas, do you consider that the risks for the French population in general are...

→ EVOLUTION OF THE RESULTS 1997-2022 (IN %)

15 - Chemical facilities



16 - High-voltage lines



In 2021 and 2022, the questions "medical risks", "hazardous materials transportation", "work-related illnesses", "mobile phone relay antennas", "household waste incinerators" were not surveyed but they are still represented this year.

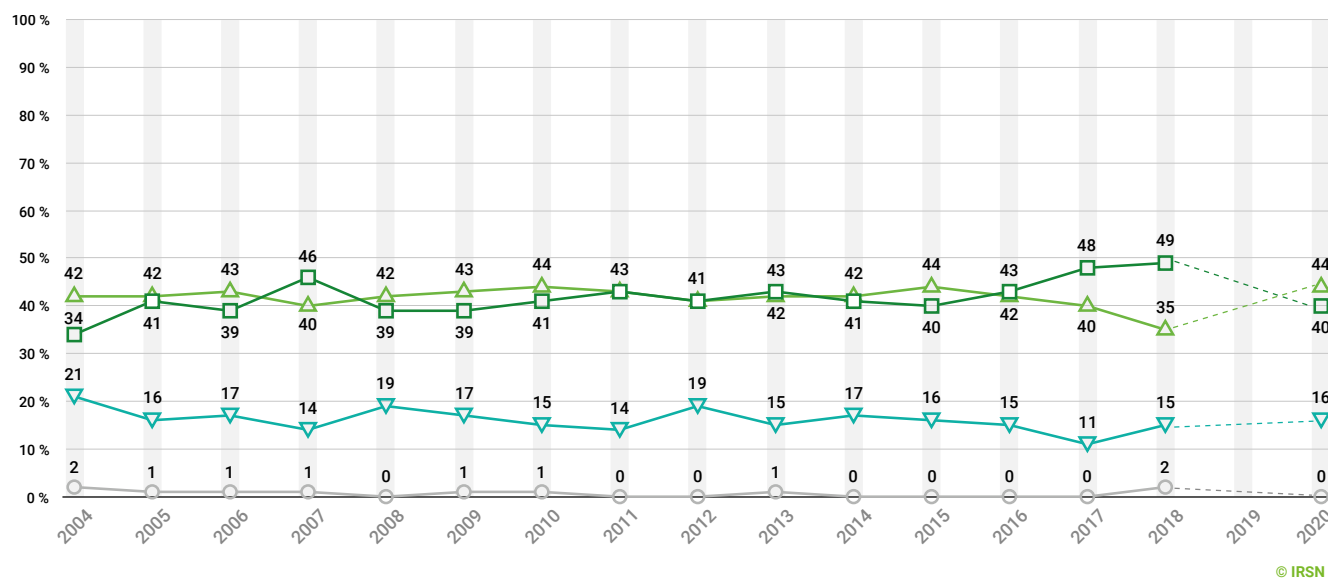
The answers "Very high" and "High" were grouped into "High"; "Near-zero" and "Low" responses into "Low".

QUESTION No.1 (CONT.)

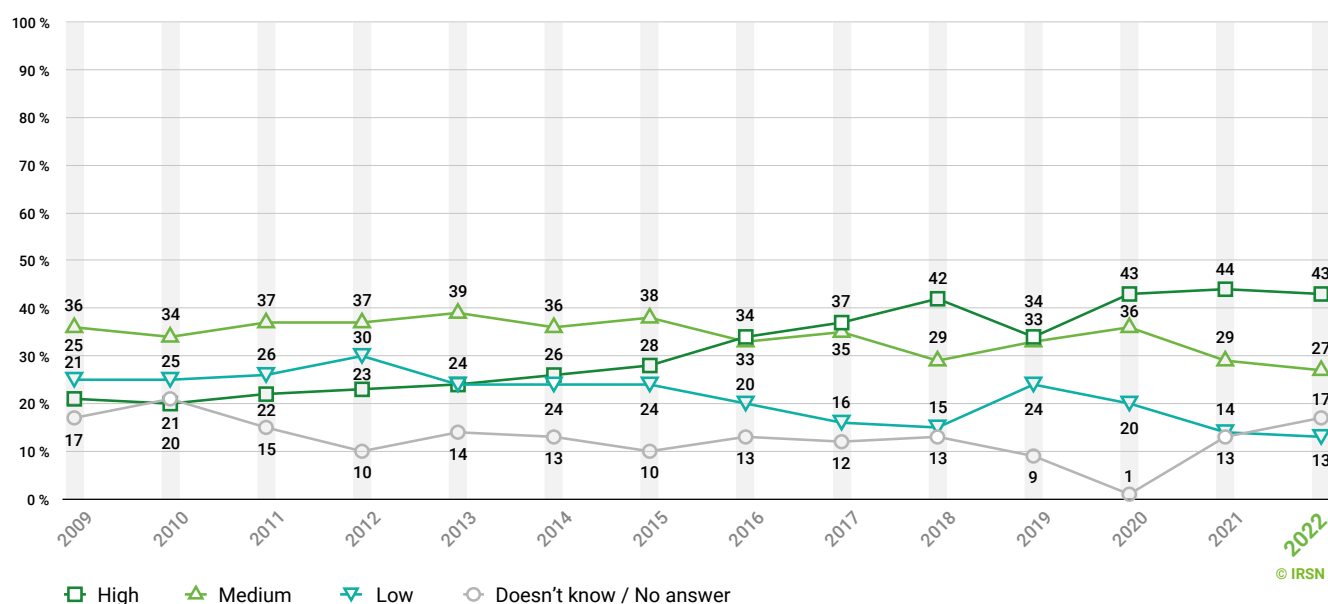
In each of the following areas, do you consider that the risks for the French population in general are...

→ EVOLUTION OF THE RESULTS 2004-2022 (IN %)

17 - Work-related illnesses



18 - Nanoparticles



In 2021 and 2022, the questions "medical risks", "hazardous materials transportation", "work-related illnesses", "mobile phone relay antennas", "household waste incinerators" were not surveyed but they are still represented this year.

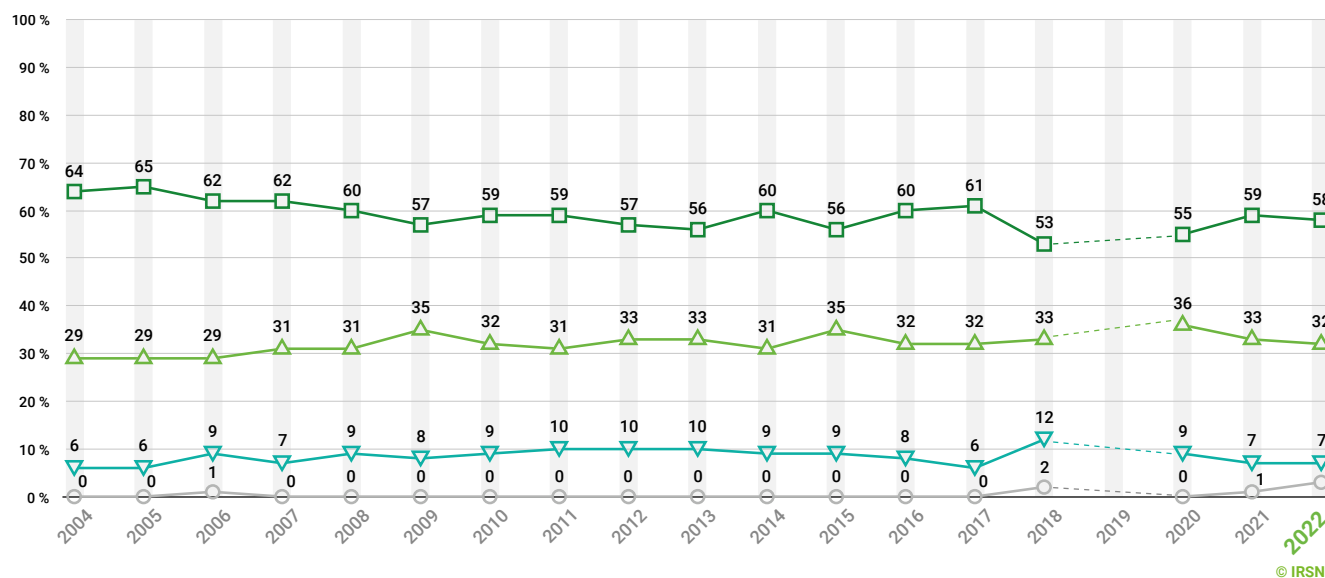
The answers "Very high" and "High" were grouped into "High"; "Near-zero" and "Low" responses into "Low".

QUESTION No.1 (CONT.)

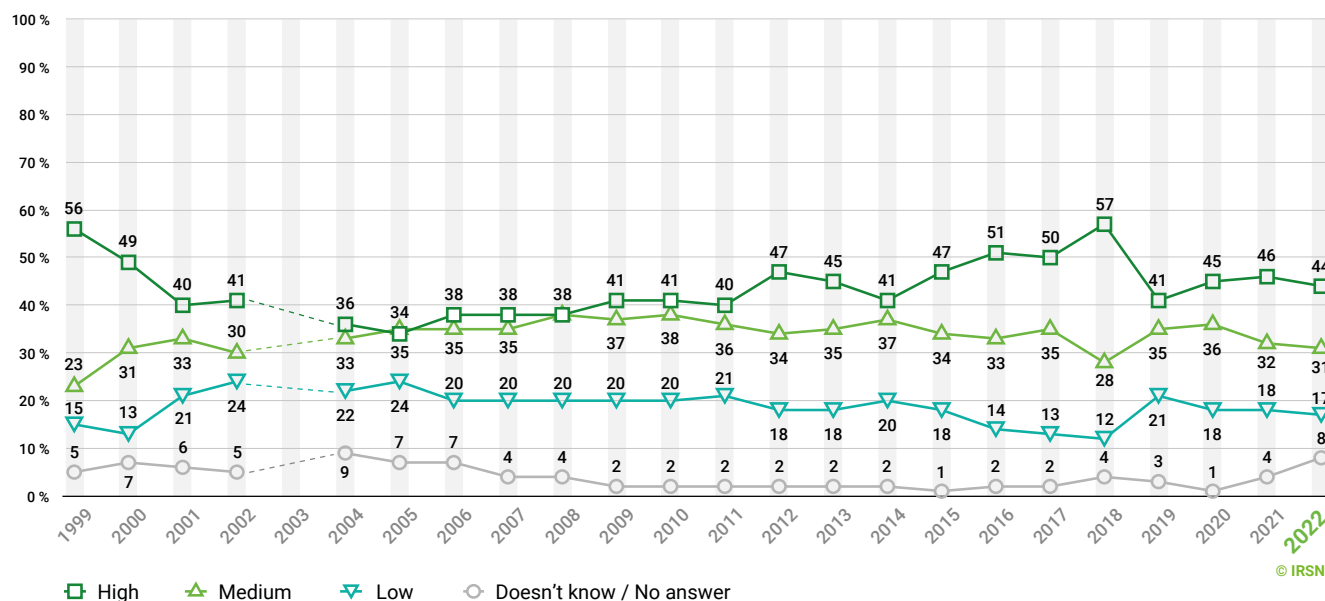
In each of the following areas, do you consider that the risks for the French population in general are...

→ EVOLUTION OF THE RESULTS 1999-2022 (IN %)

19 - Obesity*



20 - GMO's (Genetically Modified Organisms)



In 2021 and 2022, the questions "medical risks", "hazardous materials transportation", "work-related illnesses", "mobile phone relay antennas", "household waste incinerators" were not surveyed but they are still represented this year.

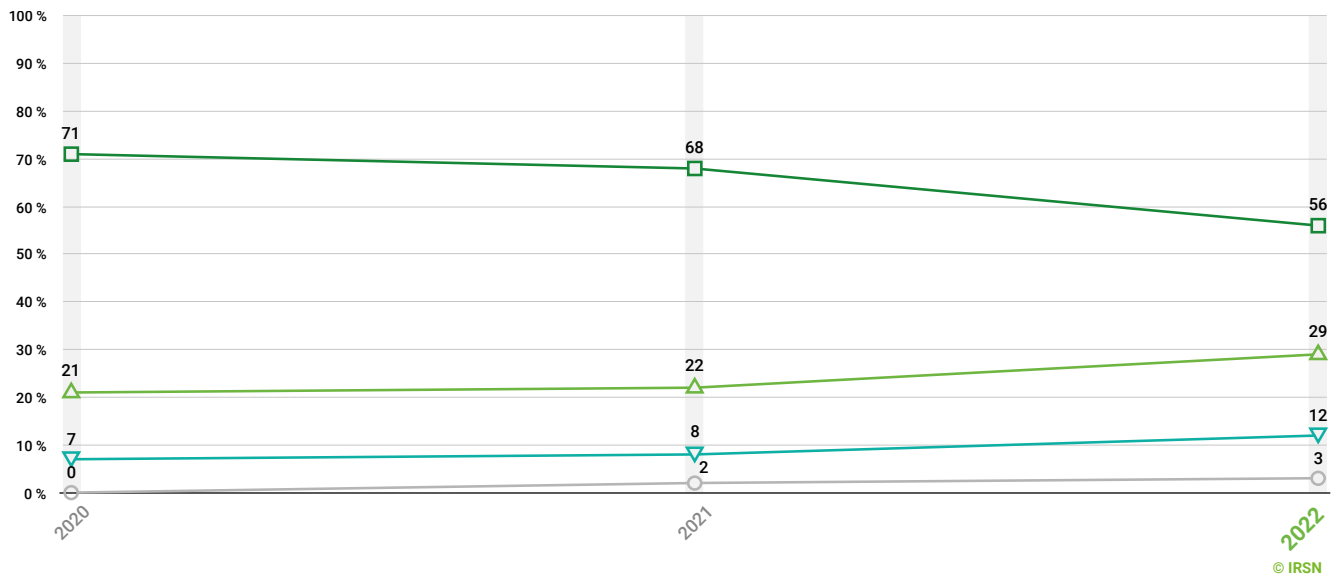
The answers "Very high" and "High" were grouped into "High"; "Near-zero" and "Low" responses into "Low".

QUESTION No.1 (CONT.)

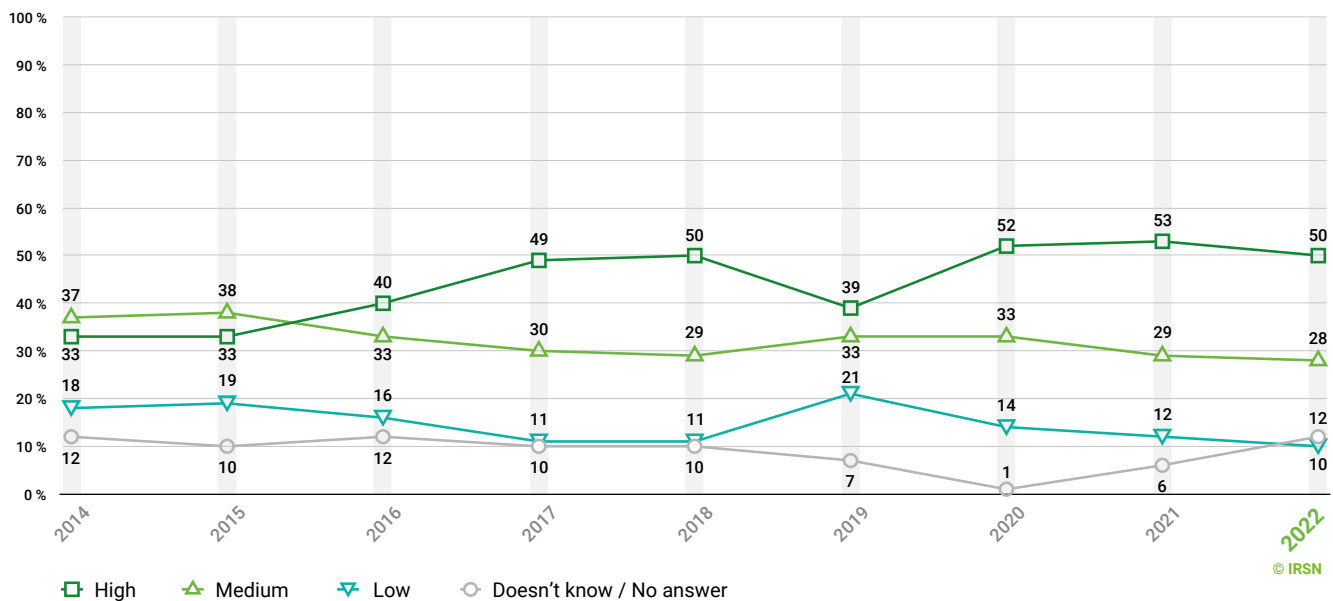
In each of the following areas, do you consider that the risks for the French population in general are...

→ EVOLUTION OF THE RESULTS 2014-2022 (IN %)

21 - Pandemics (global epidemics)



22 - Endocrine disruptors



In 2021 and 2022, the questions "medical risks", "hazardous materials transportation", "work-related illnesses", "mobile phone relay antennas", "household waste incinerators" were not surveyed but they are still represented this year.

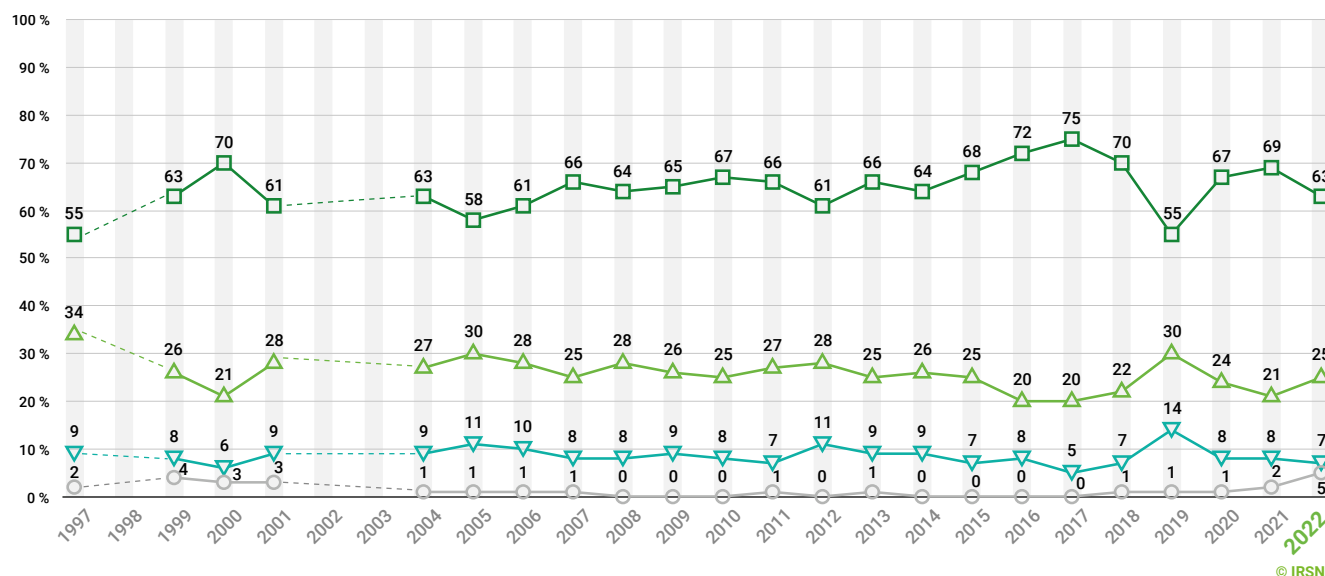
The answers "Very high" and "High" were grouped into "High"; "Near-zero" and "Low" responses into "Low".

QUESTION No.1 (CONT.)

In each of the following areas, do you consider that the risks for the French population in general are...

→ EVOLUTION OF THE RESULTS 1997-2022 (IN %)

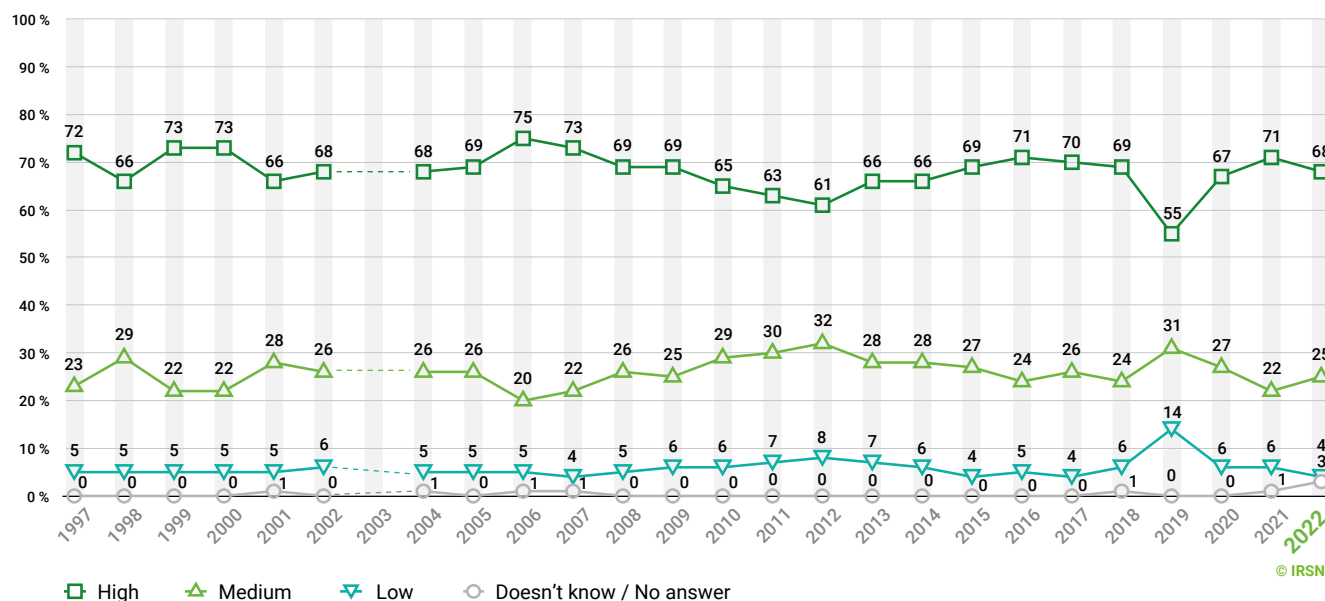
23 - Pesticides*



* The title was "Nitrates and pesticides" until 2011.

© IRSN

24 - Air pollution*



© IRSN

* The title was "atmospheric pollution" until 2018.

In 2021 and 2022, the questions "medical risks", "hazardous materials transportation", "work-related illnesses", "mobile phone relay antennas", "household waste incinerators" were not surveyed but they are still represented this year.

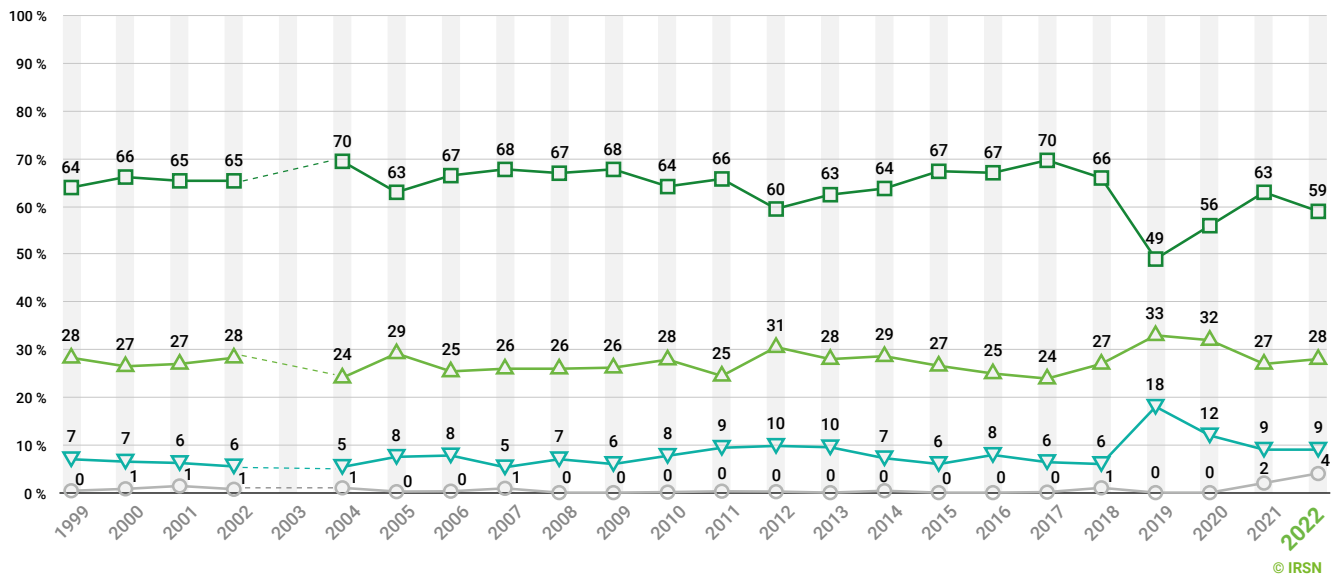
The answers "Very high" and "High" were grouped into "High"; "Near-zero" and "Low" responses into "Low".

QUESTION No.1 (CONT.)

In each of the following areas, do you consider that the risks for the French population in general are...

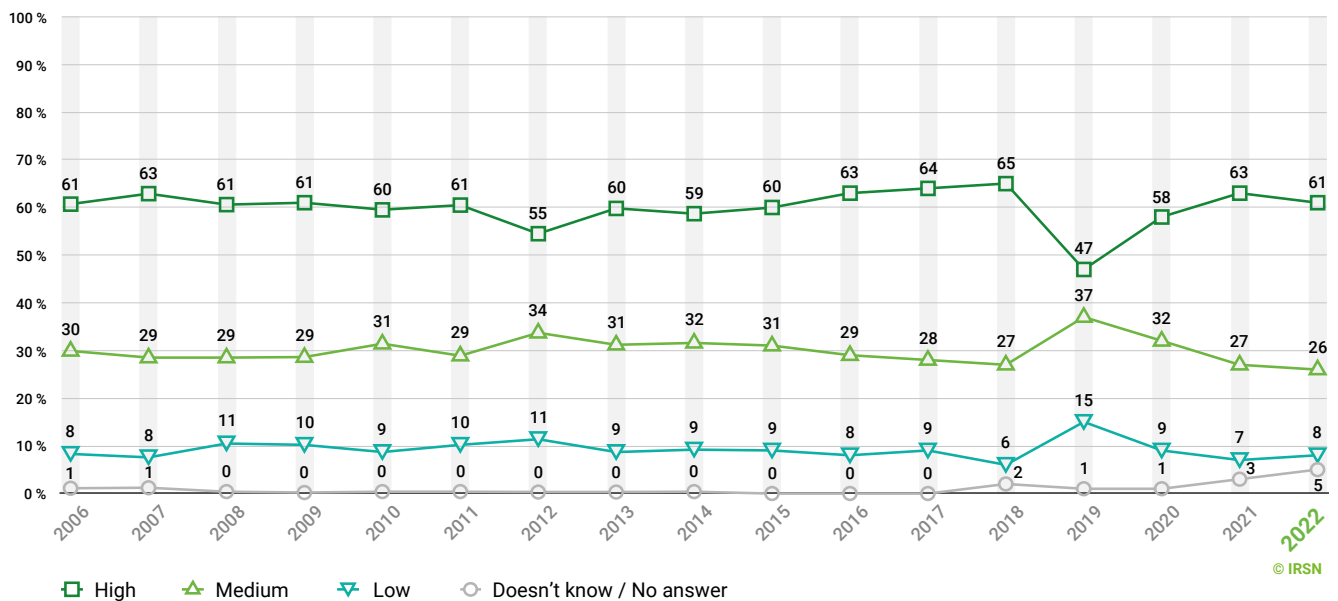
→ EVOLUTION OF THE RESULTS 1999-2022 (IN %)

25 - Water pollution*



* The title was "Pollution of lakes, rivers and seas" until 2018.

26 - Soil pollution



In 2021 and 2022, the questions "medical risks", "hazardous materials transportation", "work-related illnesses", "mobile phone relay antennas", "household waste incinerators" were not surveyed but they are still represented this year.

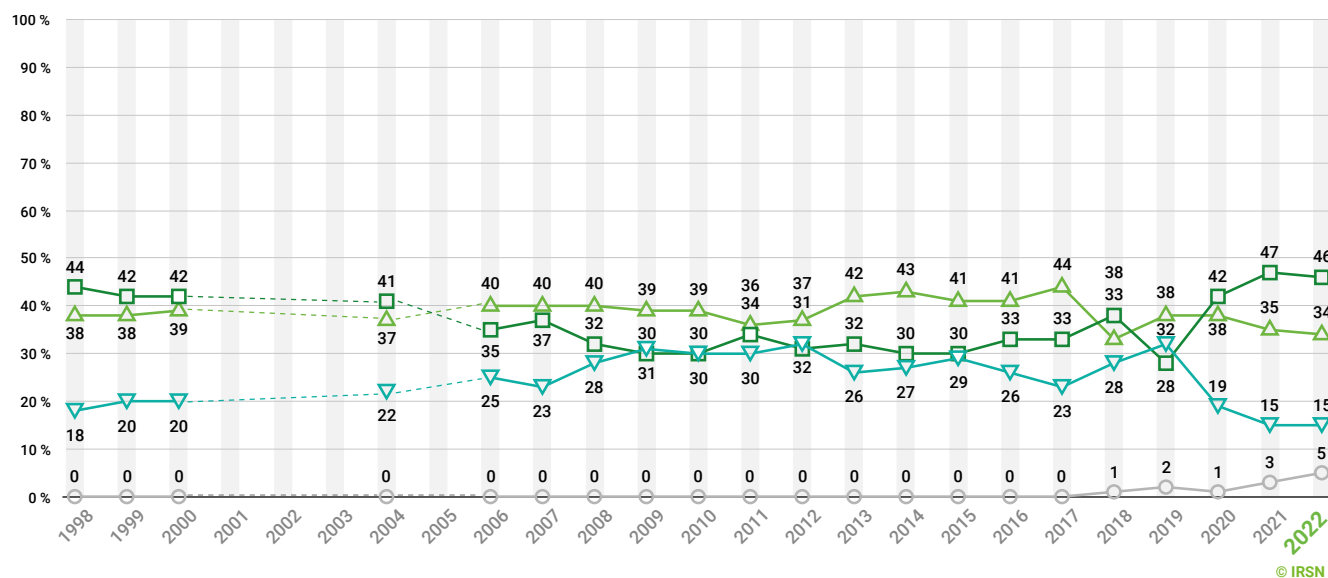
The answers "Very high" and "High" were grouped into "High"; "Near-zero" and "Low" responses into "Low".

QUESTION No.1 (CONT.)

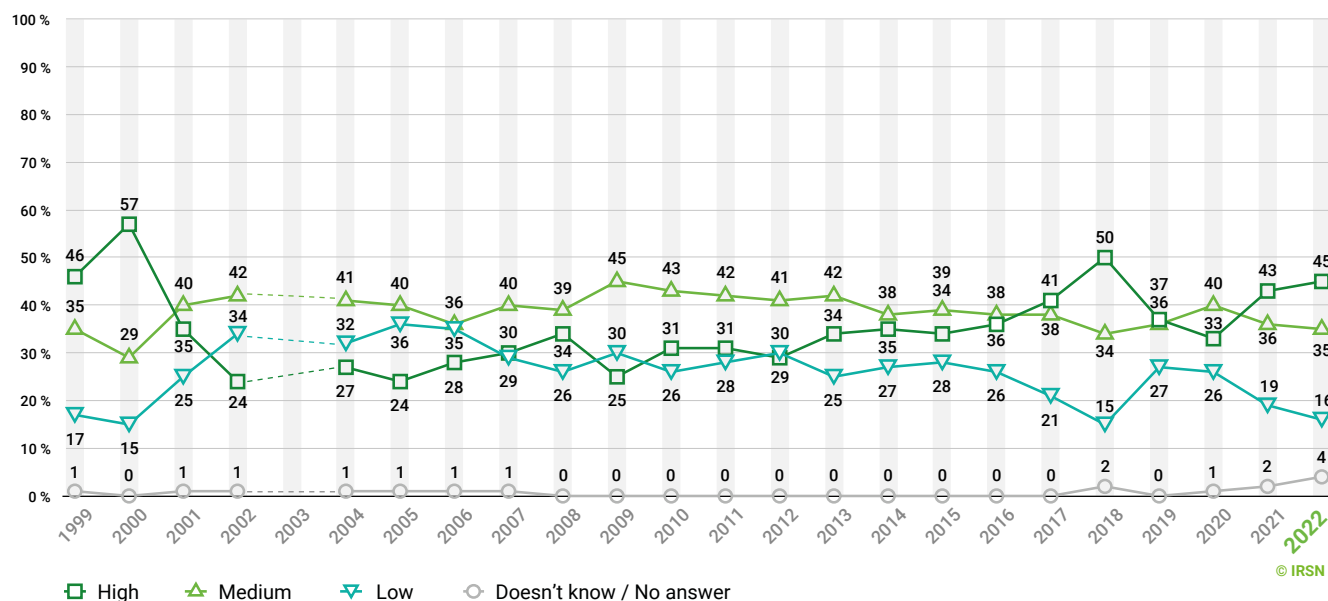
In each of the following areas, do you consider that the risks for the French population in general are...

→ EVOLUTION OF THE RESULTS 1998-2022 (IN %)

27 - Noise pollution*



28 - Food products safety*



In 2021 and 2022, the questions "medical risks", "hazardous materials transportation", "work-related illnesses", "mobile phone relay antennas", "household waste incinerators" were not surveyed but they are still represented this year.

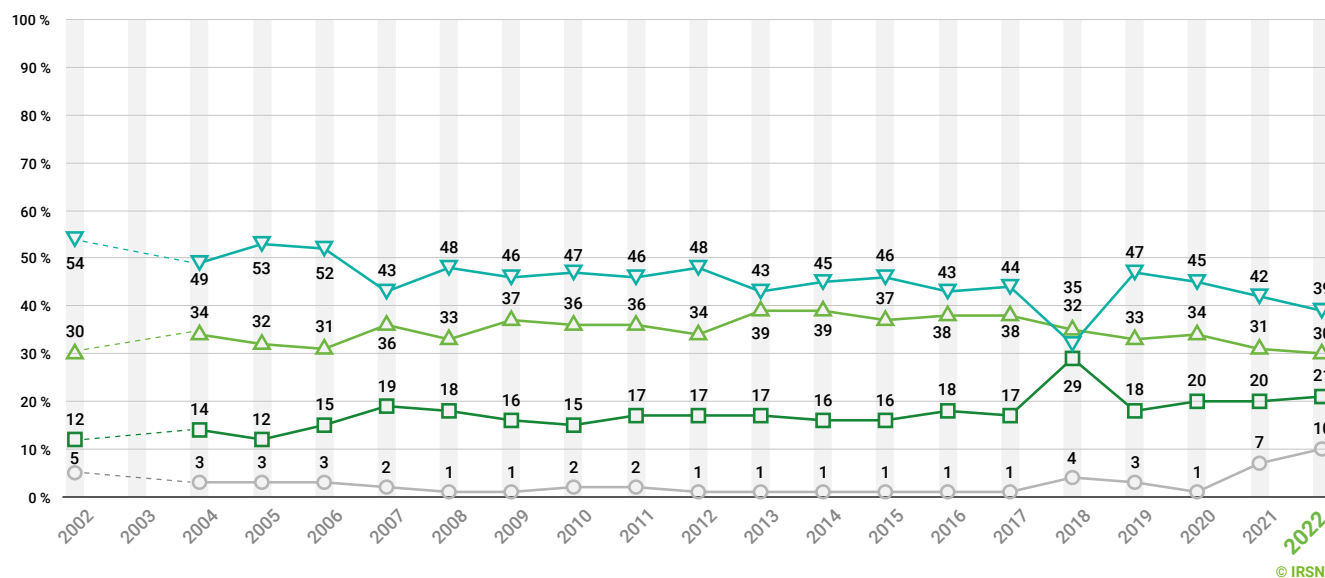
The answers "Very high" and "High" were grouped into "High"; "Near-zero" and "Low" responses into "Low".

QUESTION No.1 (CONT.)

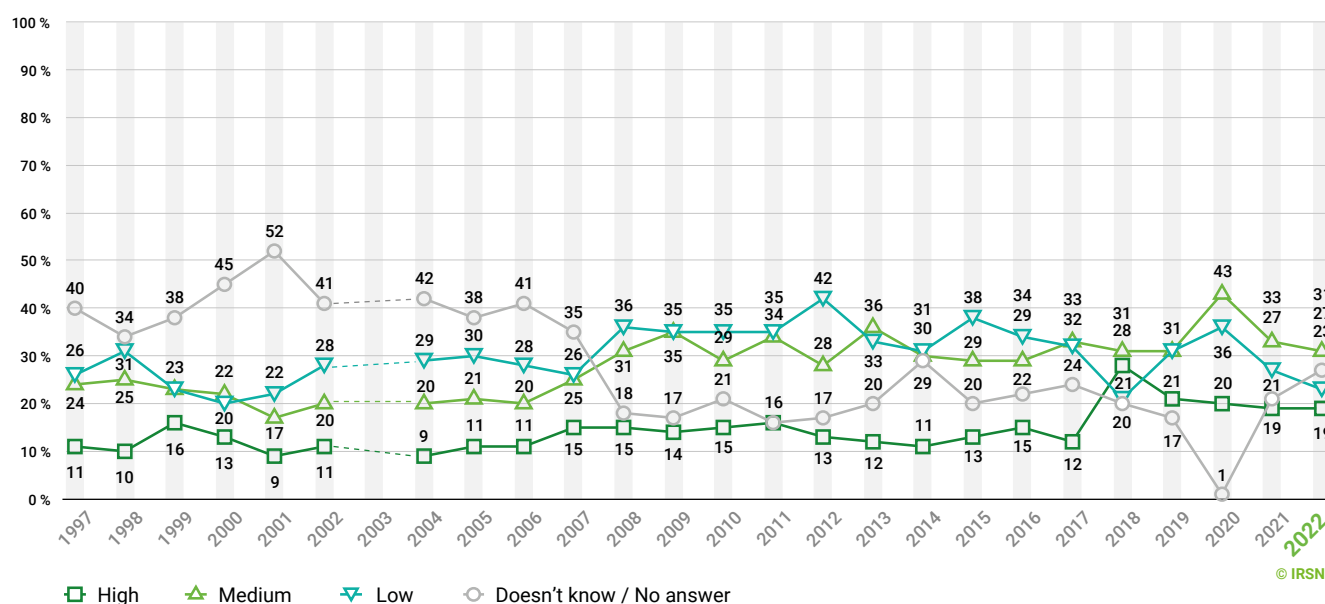
In each of the following areas, do you consider that the risks for the French population in general are...

→ EVOLUTION OF THE RESULTS 1997-2022 (IN %)

29 - Medical radiographies



30 - Indoor radon



In 2021 and 2022, the questions "medical risks", "hazardous materials transportation", "work-related illnesses", "mobile phone relay antennas", "household waste incinerators" were not surveyed but they are still represented this year.

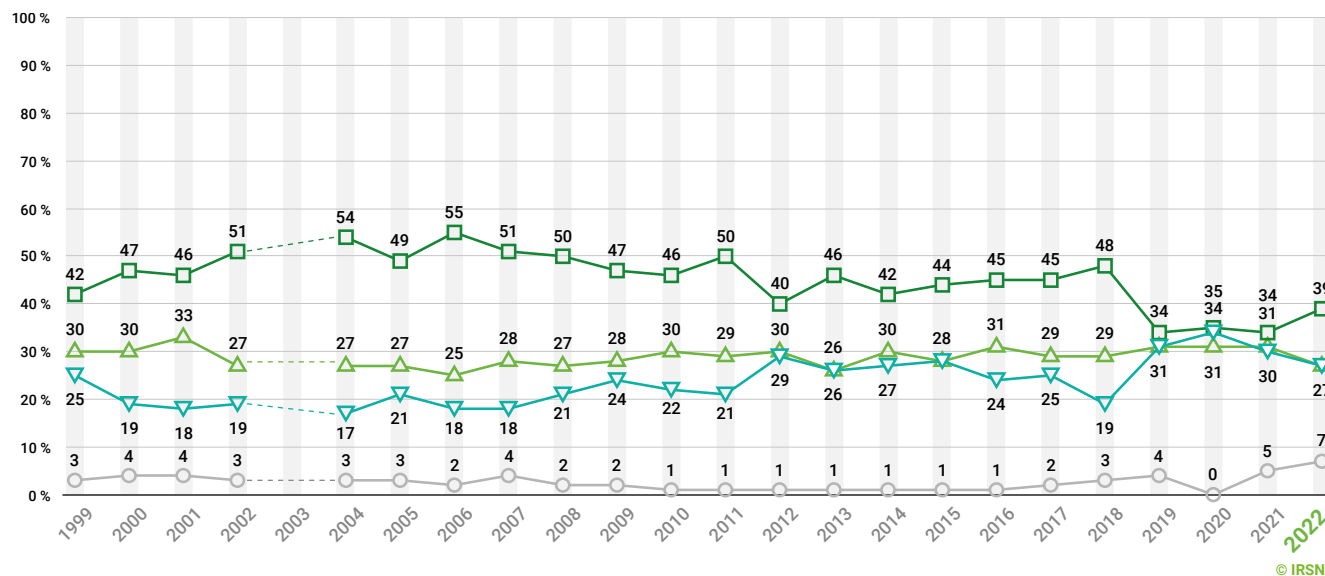
The answers "Very high" and "High" were grouped into "High"; "Near-zero" and "Low" responses into "Low".

QUESTION No.1 (CONT.)

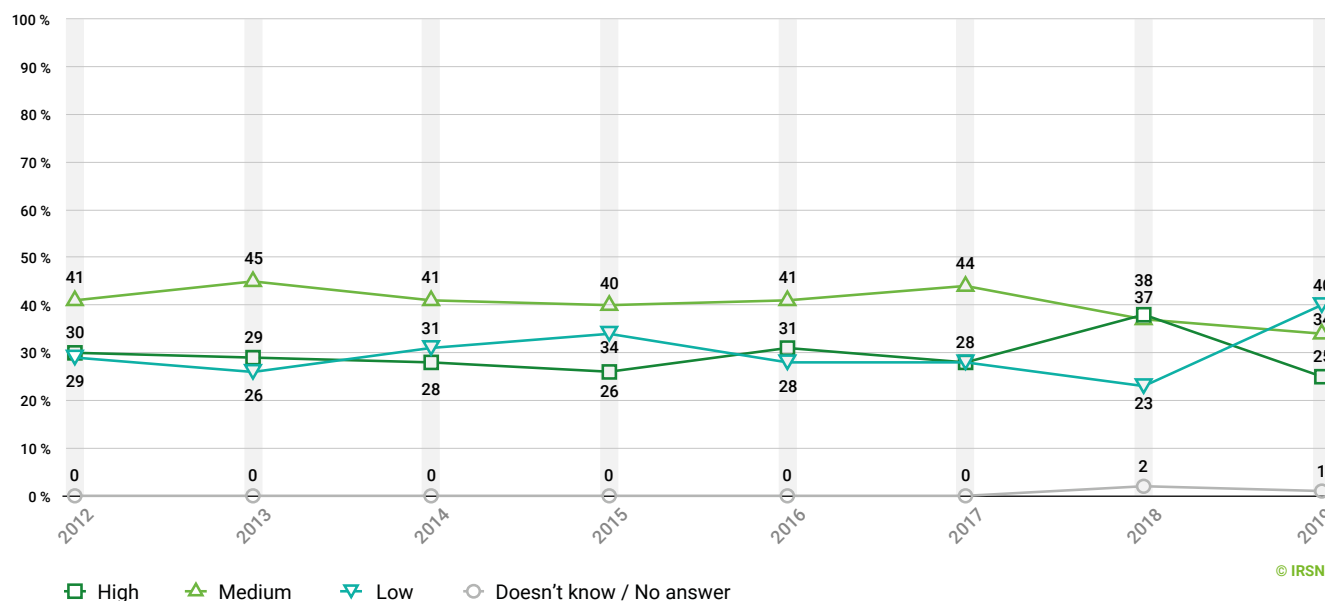
In each of the following areas, do you consider that the risks for the French population in general are...

→ EVOLUTION OF THE RESULTS 1999-2022 (IN %)

31 - Radioactive fallouts in France from the Chernobyl accident



32 - Medical risks



In 2021 and 2022, the questions "medical risks", "hazardous materials transportation", "work-related illnesses", "mobile phone relay antennas", "household waste incinerators" were not surveyed but they are still represented this year.

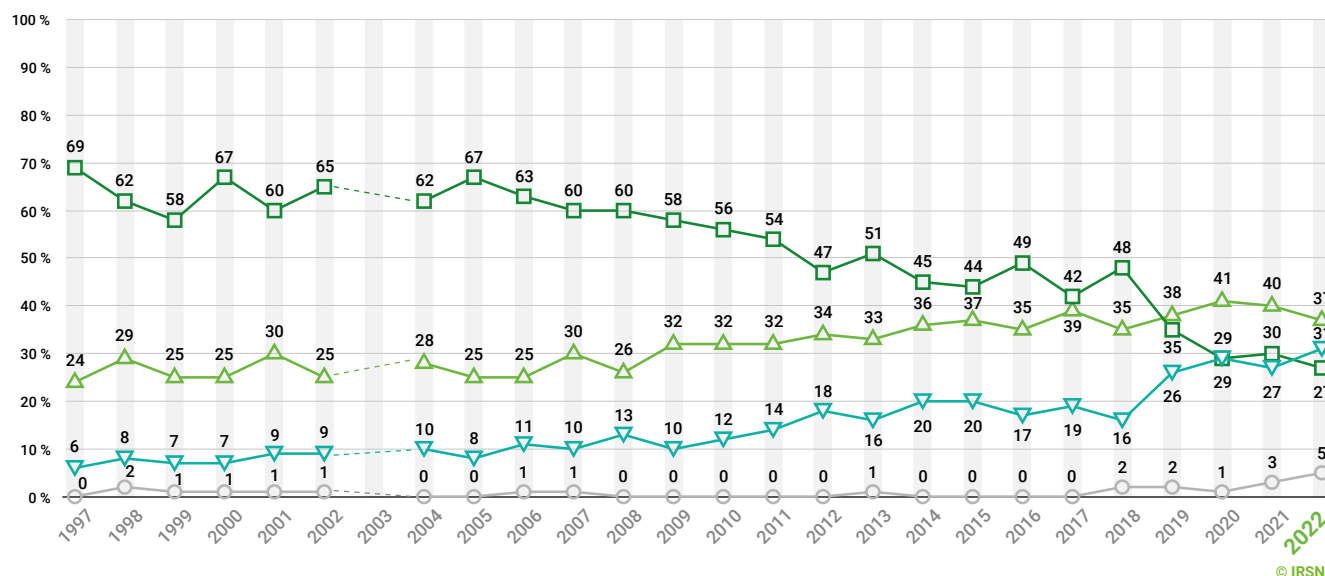
The answers "Very high" and "High" were grouped into "High"; "Near-zero" and "Low" responses into "Low".

QUESTION No.1 (CONT.)

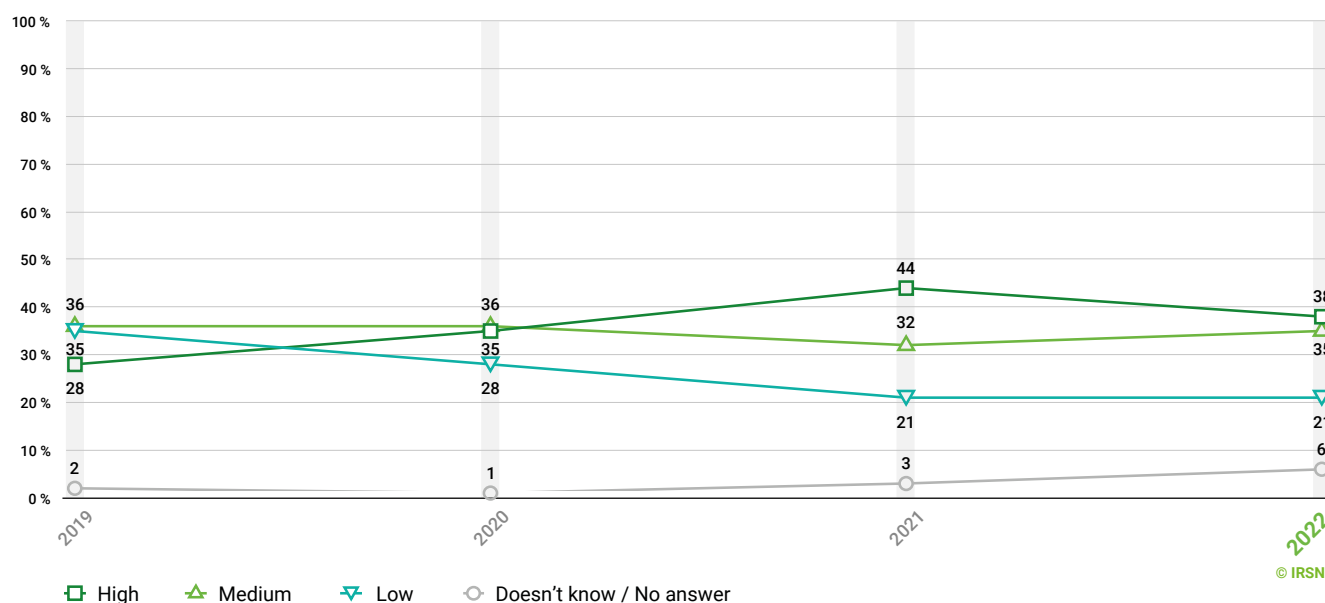
In each of the following areas, do you consider that the risks for the French population in general are...

→ EVOLUTION OF THE RESULTS 1997-2022 (IN %)

33 - AIDS



34 - Marine submersion (temporary flooding caused by the sea)



In 2021 and 2022, the questions "medical risks", "hazardous materials transportation", "work-related illnesses", "mobile phone relay antennas", "household waste incinerators" were not surveyed but they are still represented this year.

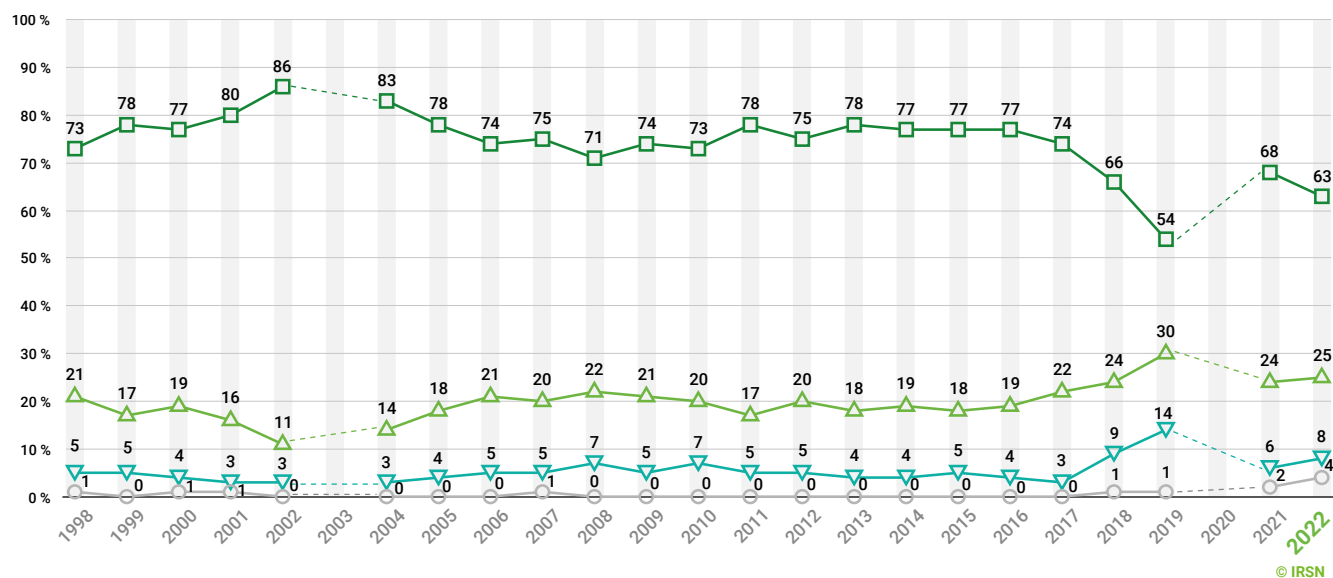
The answers "Very high" and "High" were grouped into "High"; "Near-zero" and "Low" responses into "Low".

QUESTION No.1 (CONT.)

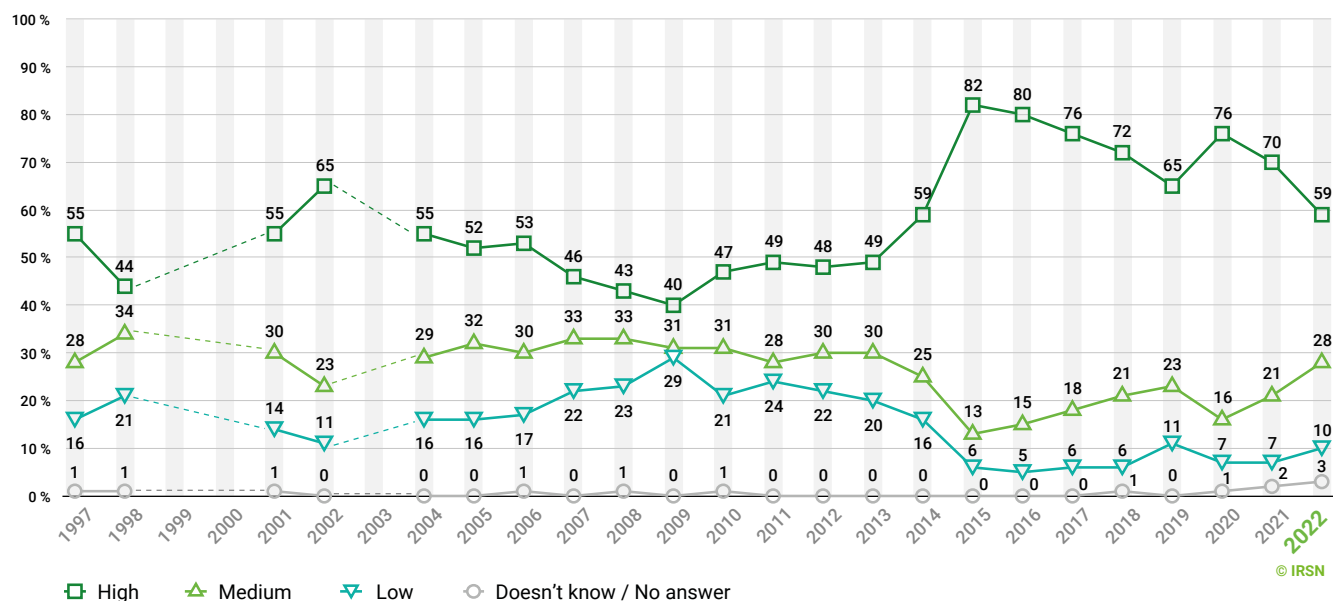
In each of the following areas, do you consider that the risks for the French population in general are...

→ EVOLUTION OF THE RESULTS 1997-2022 (IN %)

35 - Smoking*



36 - Terrorism



In 2021 and 2022, the questions "medical risks", "hazardous materials transportation", "work-related illnesses", "mobile phone relay antennas", "household waste incinerators" were not surveyed but they are still represented this year.

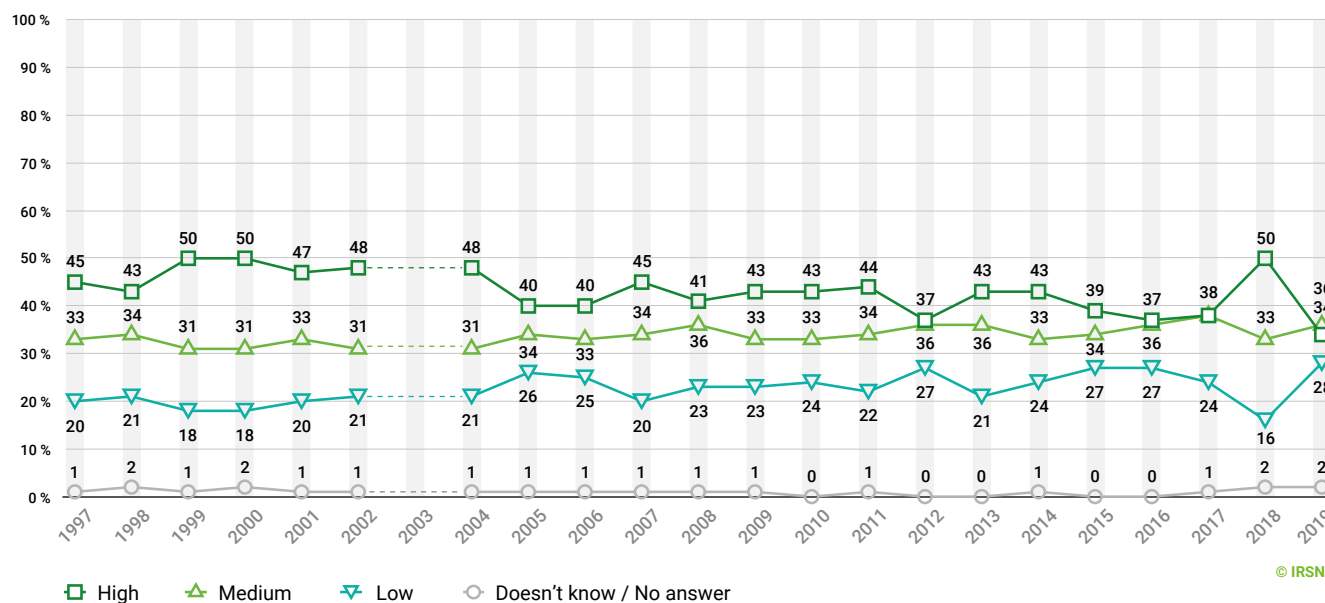
The answers "Very high" and "High" were grouped into "High"; "Near-zero" and "Low" responses into "Low".

QUESTION No.1 (CONT.)

In each of the following areas, do you consider that the risks for the French population in general are...

→ EVOLUTION OF THE RESULTS 1997-2022 (IN %)

37 - Hazardous materials transportations



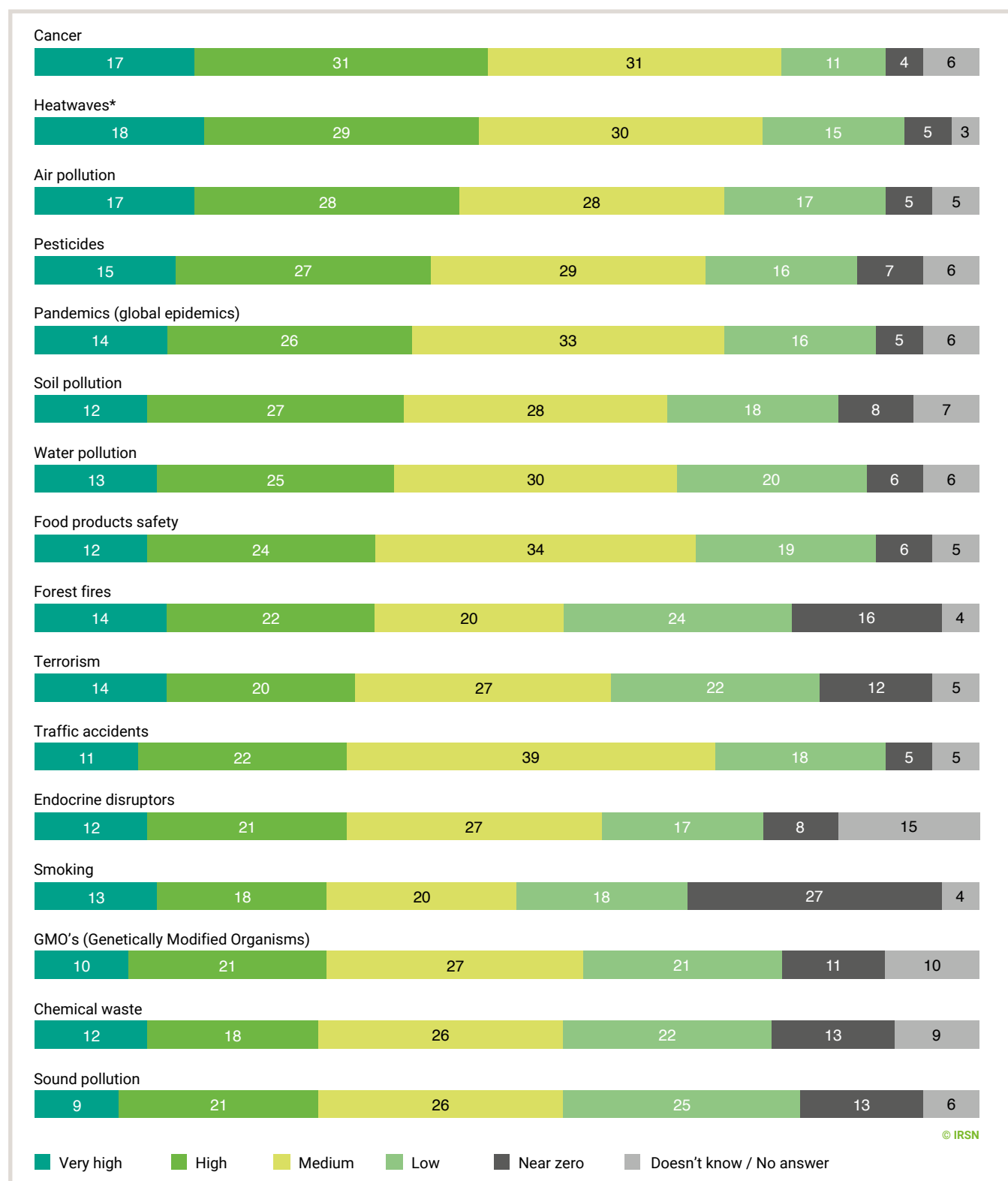
In 2021 and 2022, the questions "medical risks", "hazardous materials transportation", "work-related illnesses", "mobile phone relay antennas", "household waste incinerators" were not surveyed but they are still represented this year.

The answers "Very high" and "High" were grouped into "High"; "Near-zero" and "Low" responses into "Low".

QUESTION No.2

How about for yourself and the ones close to you, do you consider that the risks are:

→ NOVEMBER 2022 (IN %)



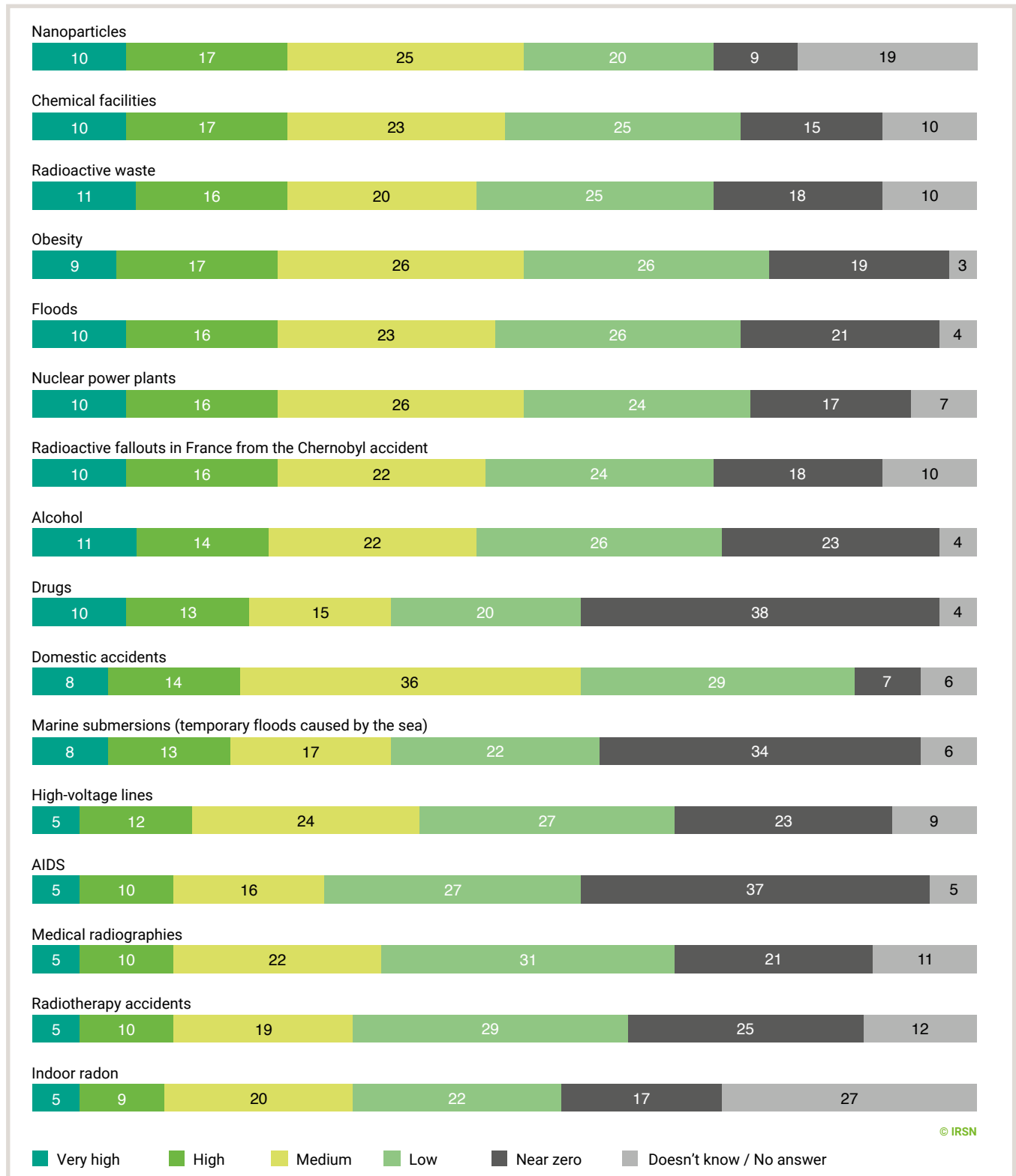
* In 2022, "heatwave" was replaced by "heatwaves".

The option "Don't know/No answer" represents the sum of "I don't know" and the lack of response.

QUESTION No. 2 (CONT.)

How about for yourself and the ones close to you, do you consider that the risks are:

→ NOVEMBER 2022 (IN %)

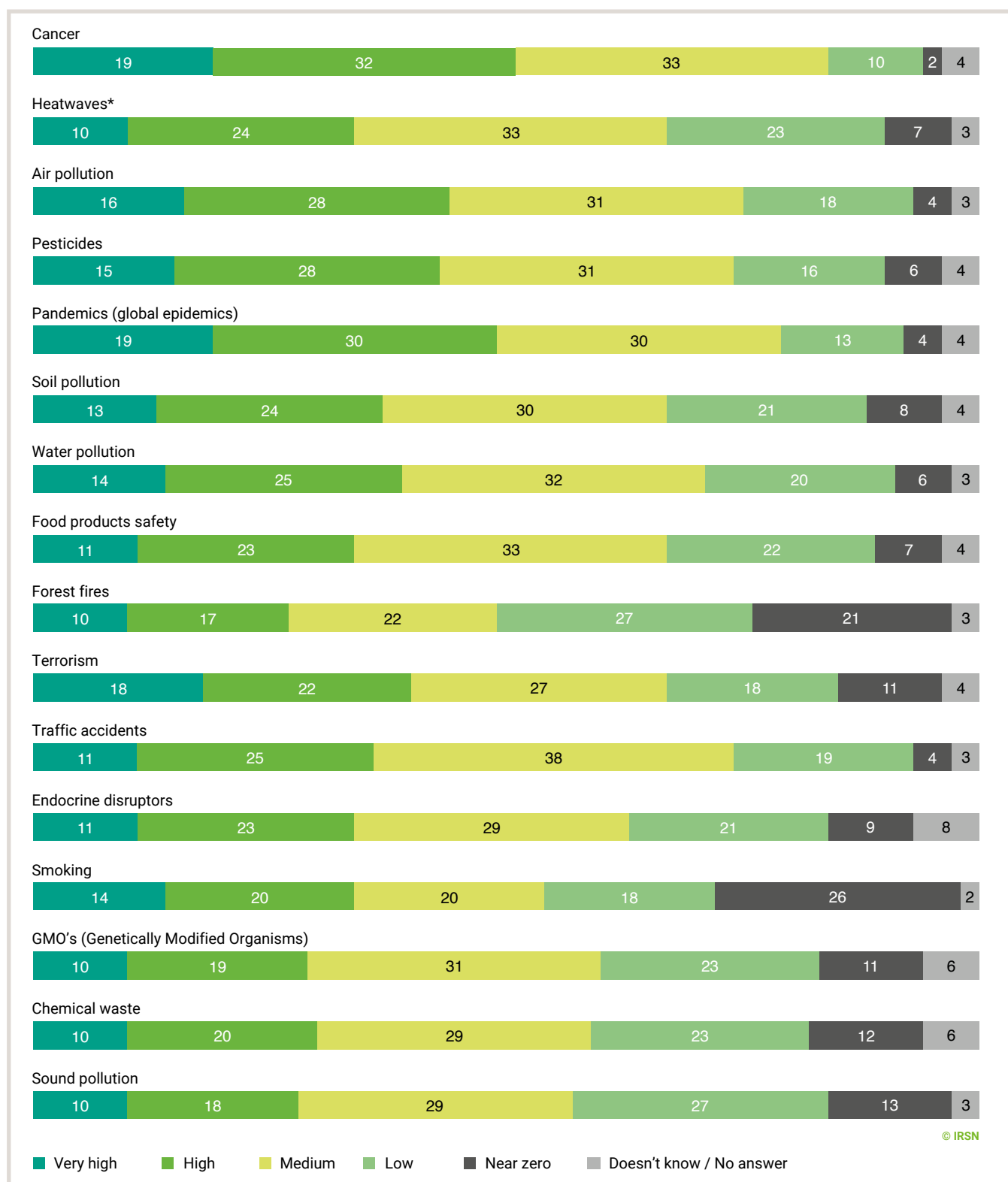


The option "Don't know/No answer" represents the sum of "I don't know" and the lack of response.

QUESTION No. 2 (CONT.)

How about for yourself and the ones close to you, do you consider that the risks are:

→ NOVEMBRE 2021 (IN %)



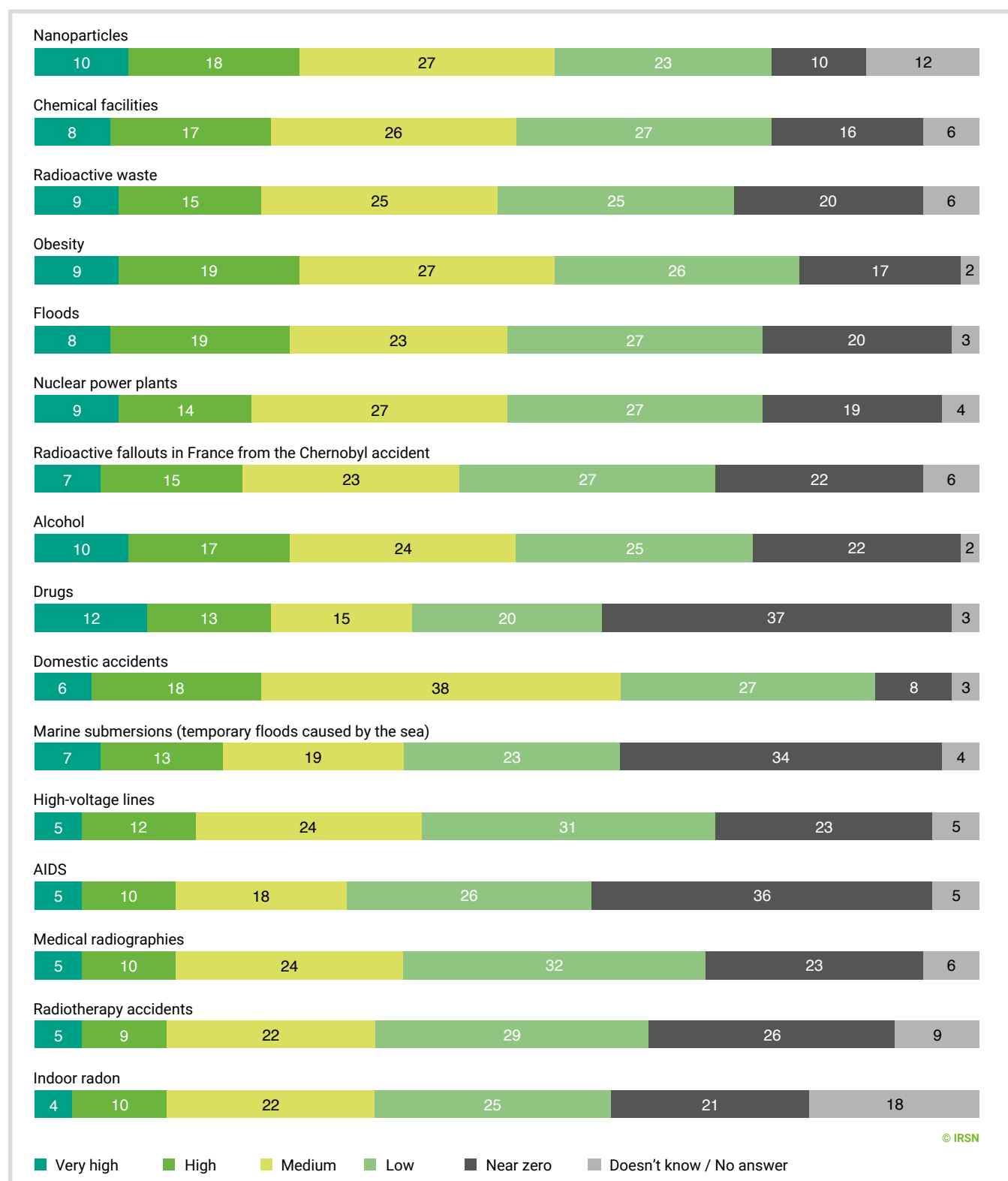
* In 2022, "heatwave" was replaced by "heatwaves".

The option "Don't know/No answer" represents the sum of "I don't know" and the lack of response.

QUESTION No. 2 (CONT.)

How about for yourself and the ones close to you, do you consider that the risks are:

→ NOVEMBRE 2021 (IN %)

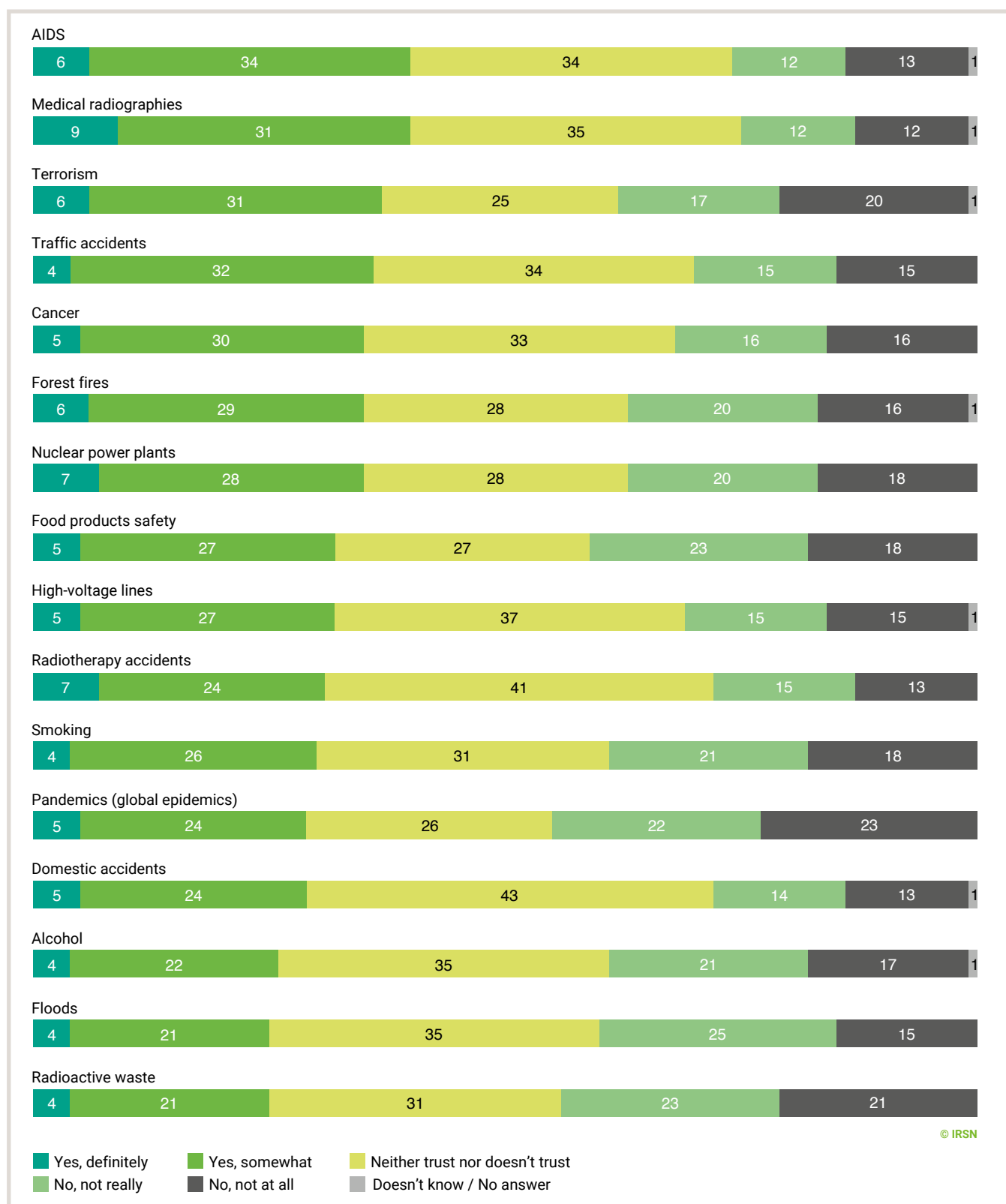


The option "Don't know/No answer" represents the sum of "I don't know" and the lack of response.

QUESTION No. 3

Do you trust the French authorities to protect people against the following risks?

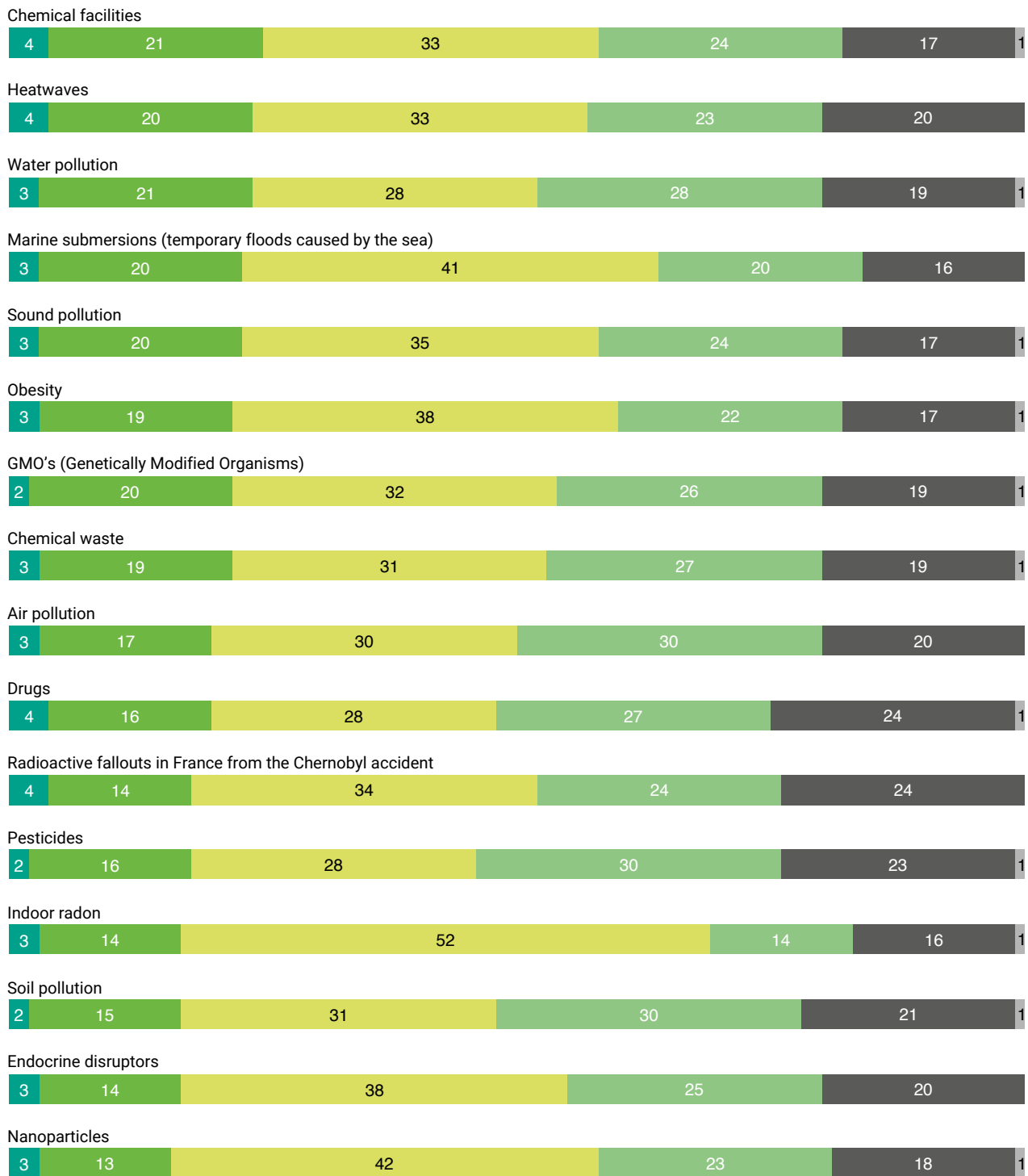
→ NOVEMBER 2022 (IN %)



QUESTION No. 3 (CONT.)

Do you trust the French authorities to protect people against the following risks?

→ NOVEMBER 2022 (IN %)



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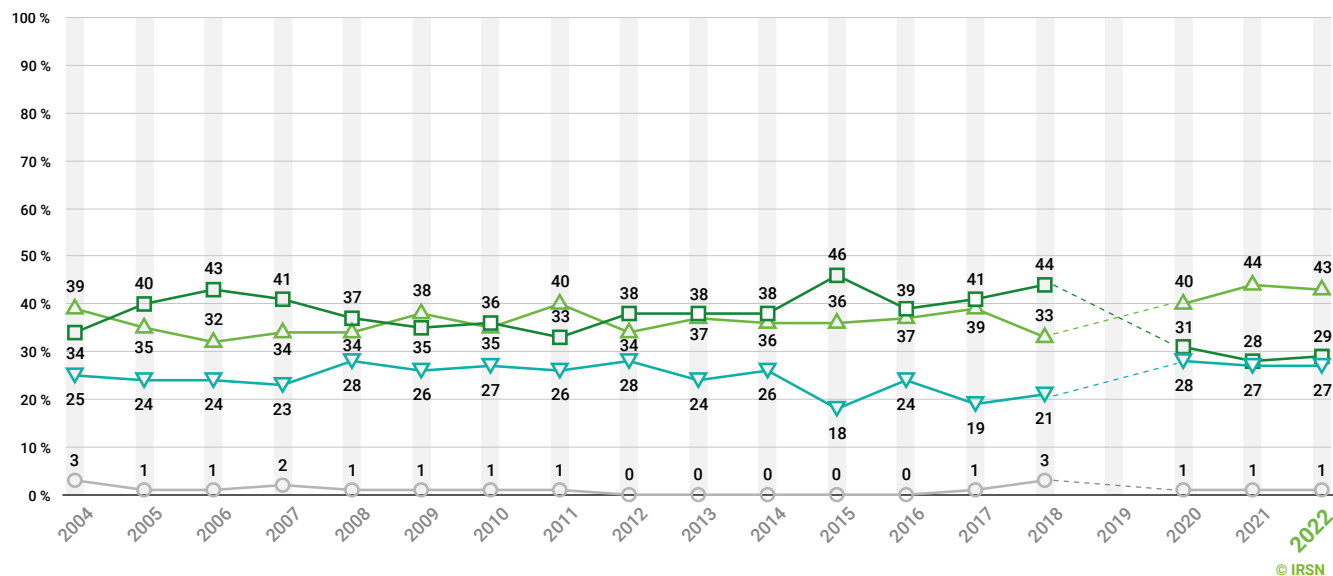
■ Yes, definitely
 ■ Yes, somewhat
 ■ Neither trust nor doesn't trust
■ No, not really
 ■ No, not at all
 ■ Doesn't know / No answer

QUESTION No. 3 (CONT.)

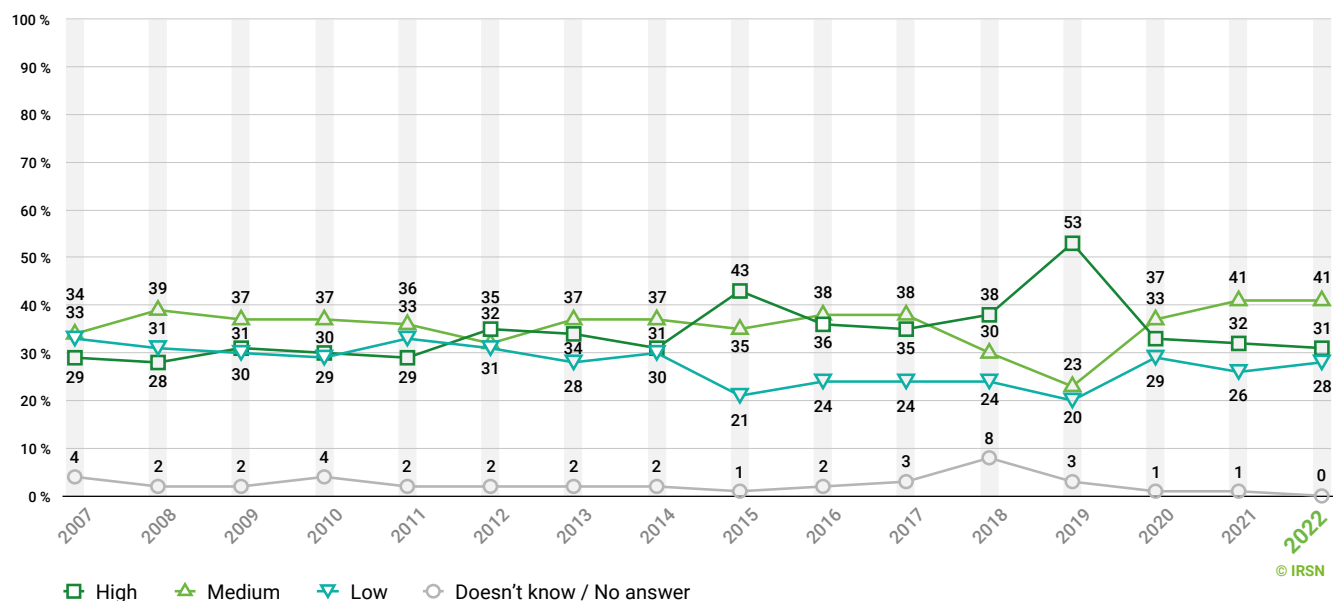
Do you trust the French authorities to protect people against the following risks?

→ EVOLUTION OF THE RESULTS 2004-2022 (IN %)

1 - Domestic accidents



2 - Radiotherapy accidents



In 2021 and 2022, the questions "medical risks", "hazardous materials transportation", "work-related illnesses", "mobile phone relay antennas", "household waste incinerators" were not surveyed but they are still represented this year.

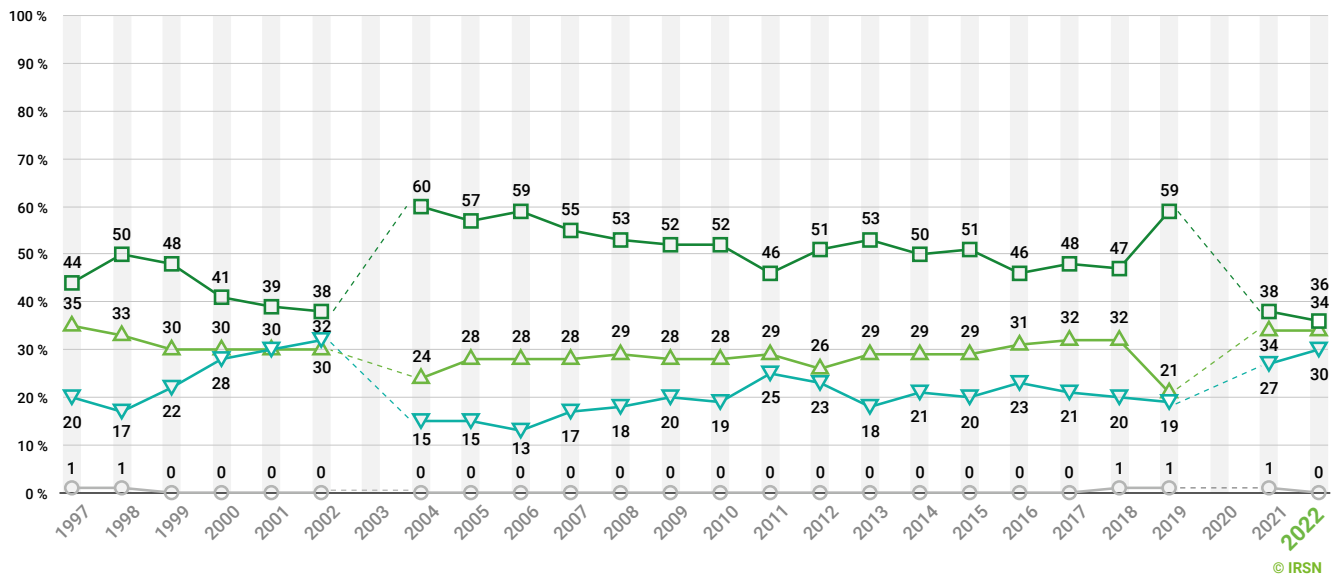
The answers "Very high" and "High" were grouped into "High"; "Near-zero" and "Low" responses into "Low".

QUESTION No. 3 (CONT.)

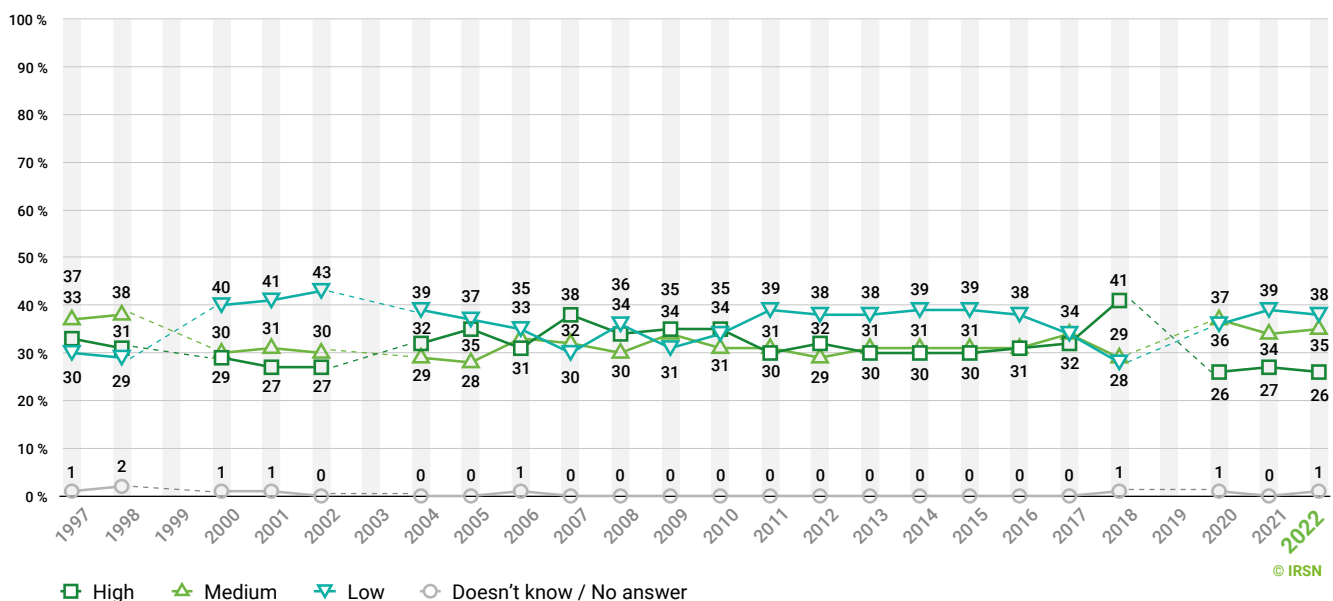
Do you trust the French authorities to protect people against the following risks?

→ EVOLUTION OF THE RESULTS 1997-2022 (IN %)

3 - Traffic accidents



4 - Alcohol*



* In 2020, "Alcoholism" was replaced by "Alcohol".

In 2021 and 2022, the questions "medical risks", "hazardous materials transportation", "work-related illnesses", "mobile phone relay antennas", "household waste incinerators" were not surveyed but they are still represented this year.

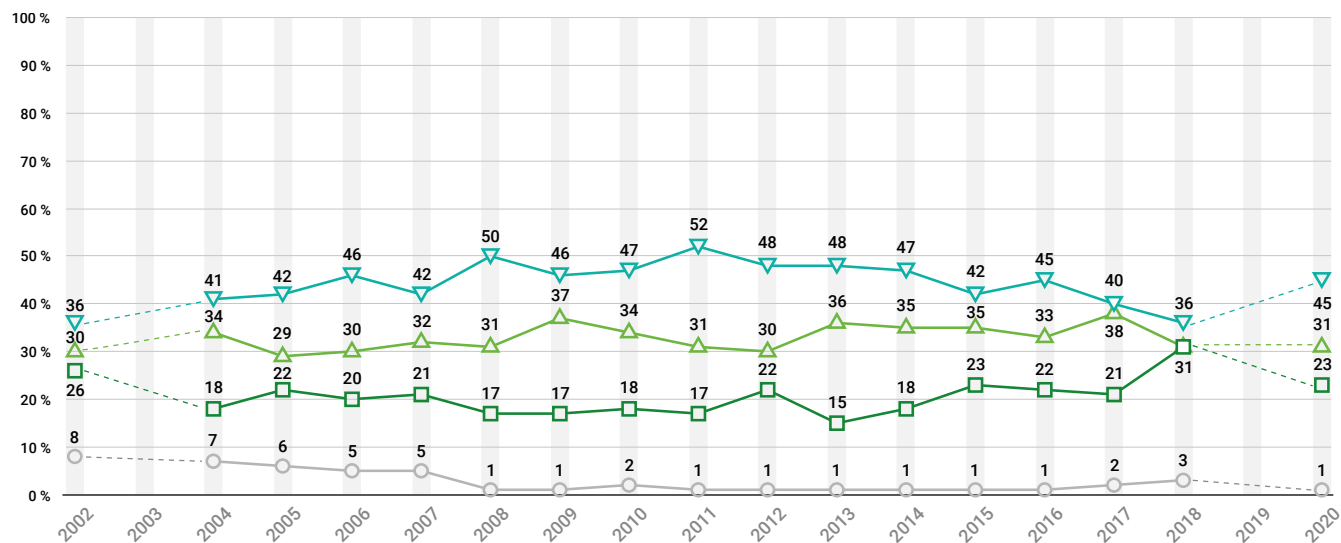
The answers "Very high" and "High" were grouped into "High"; "Near-zero" and "Low" responses into "Low".

QUESTION No. 3 (CONT.)

Do you trust the French authorities to protect people against the following risks?

→ EVOLUTION OF THE RESULTS 2002-2022 (IN %)

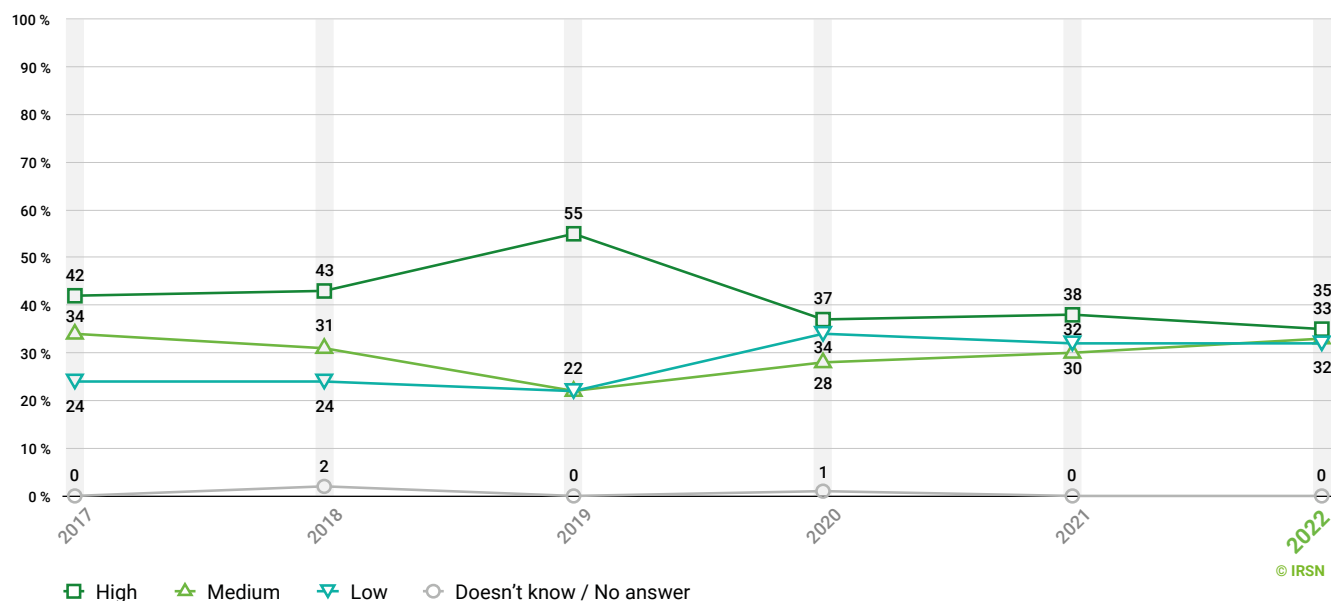
5 - Mobile phone relay antennas*



* The title was "Mobile phones" in 2002, then "Mobile phone network antennas" from 2004 to 2018 and finally "Mobile phone antennas" since 2020.

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6 - Cancer



© IRSN

In 2021 and 2022, the questions "medical risks", "hazardous materials transportation", "work-related illnesses", "mobile phone relay antennas", "household waste incinerators" were not surveyed but they are still represented this year.

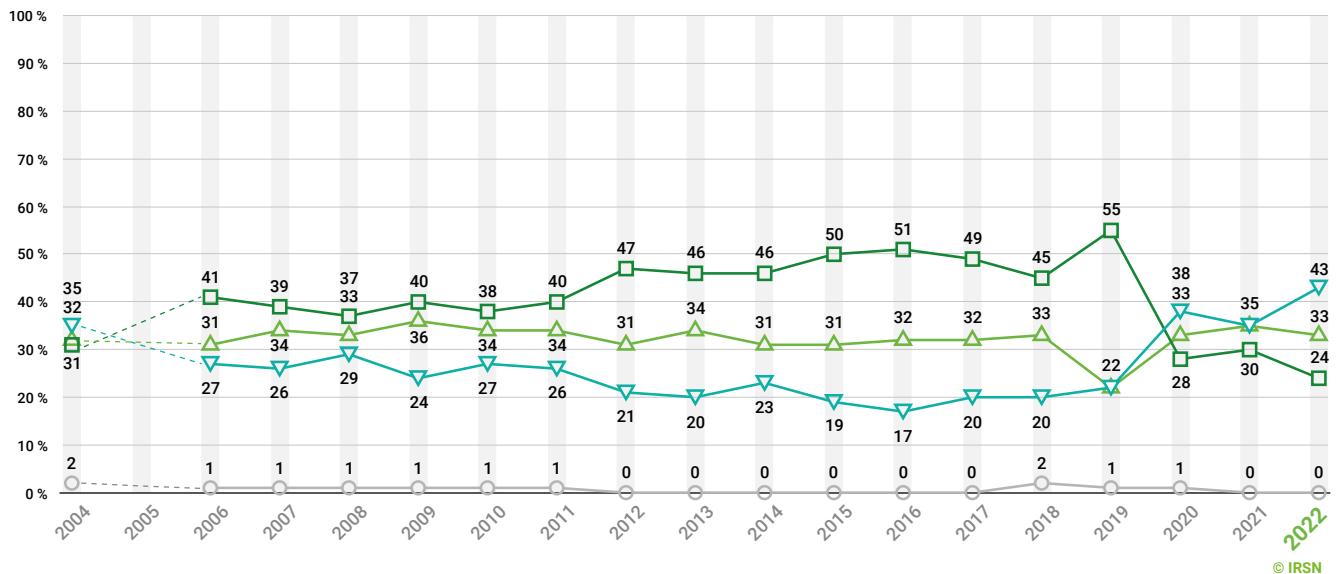
The answers "Very high" and "High" were grouped into "High"; "Near-zero" and "Low" responses into "Low".

QUESTION No. 3 (CONT.)

Do you trust the French authorities to protect people against the following risks?

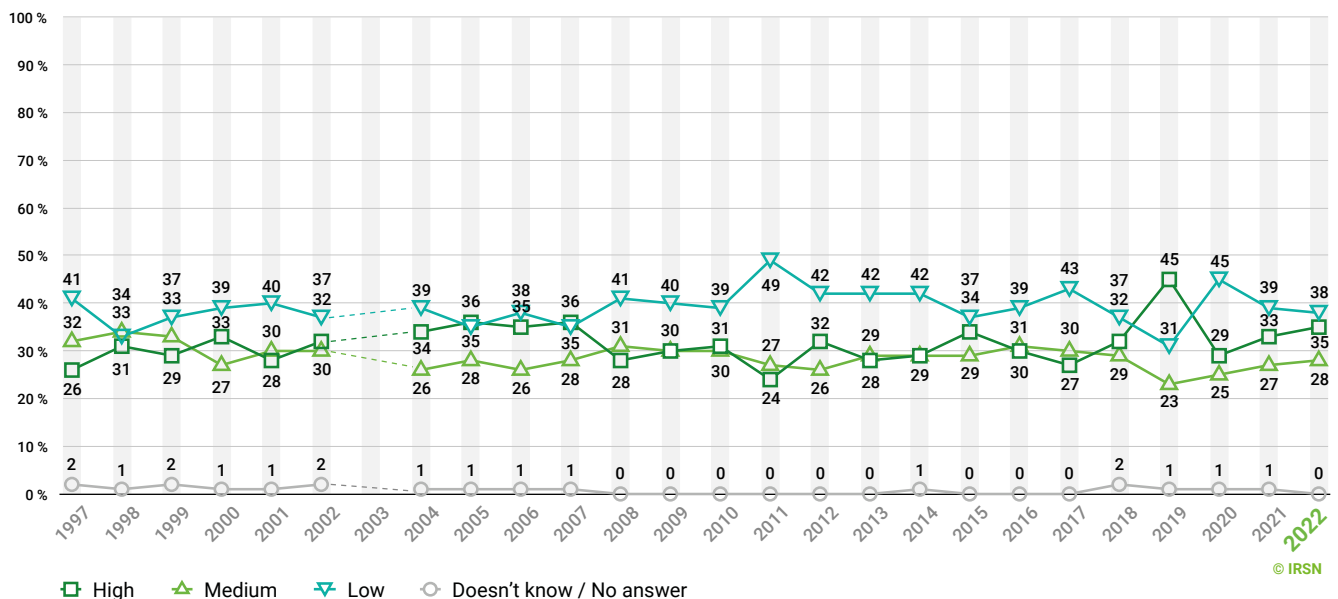
→ EVOLUTION OF THE RESULTS 1997-2022 (IN %)

7 - Heatwaves*



* In 2022, "heatwave" was replaced by "heatwaves".

8 - Nuclear power plants



In 2021 and 2022, the questions "medical risks", "hazardous materials transportation", "work-related illnesses", "mobile phone relay antennas", "household waste incinerators" were not surveyed but they are still represented this year.

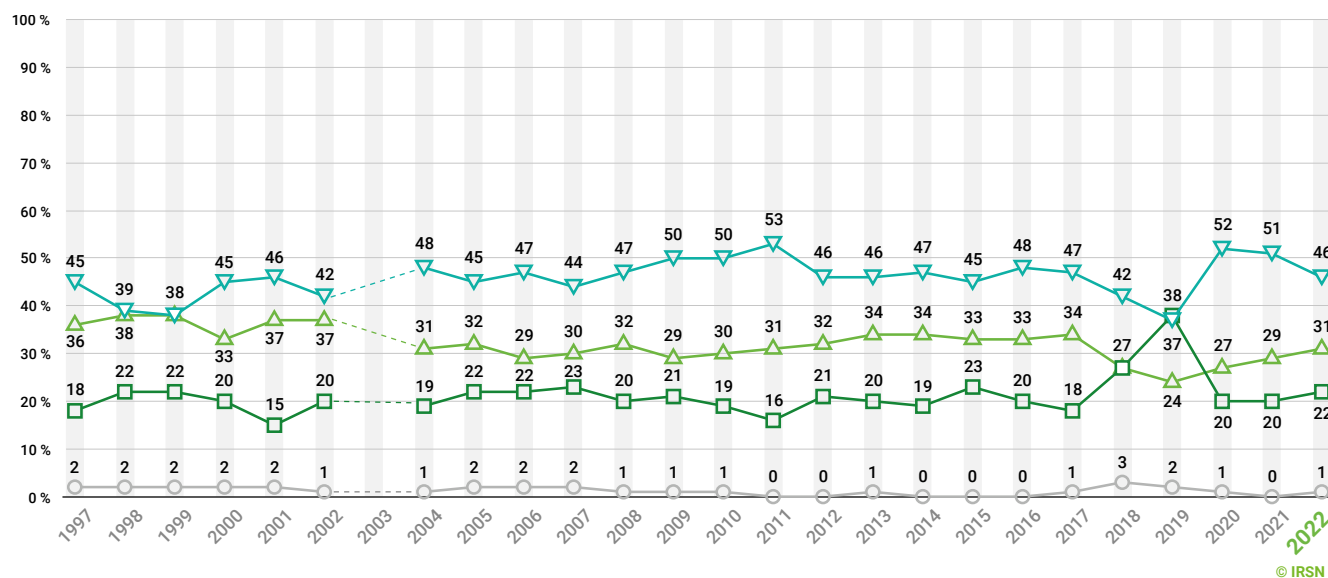
The answers "Very high" and "High" were grouped into "High"; "Near-zero" and "Low" responses into "Low".

QUESTION No. 3 (CONT.)

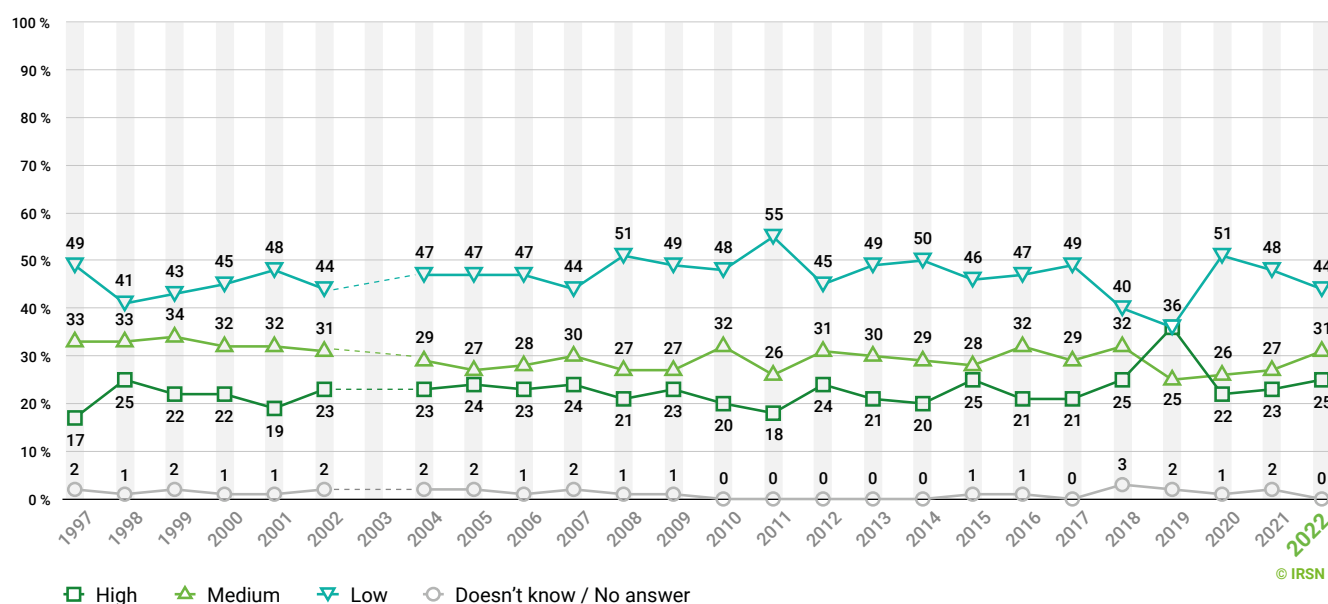
Do you trust the French authorities to protect people against the following risks?

→ EVOLUTION OF THE RESULTS 1997-2022 (IN %)

9 - Chemical waste



10 - Radioactive waste



In 2021 and 2022, the questions "medical risks", "hazardous materials transportation", "work-related illnesses", "mobile phone relay antennas", "household waste incinerators" were not surveyed but they are still represented this year.

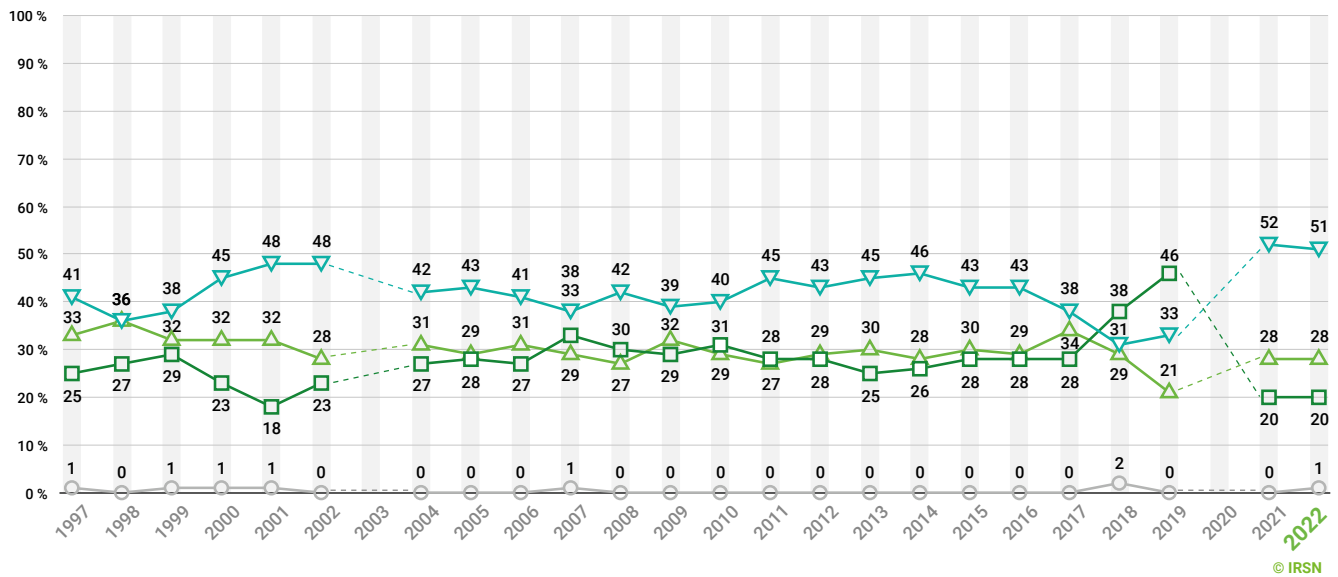
The answers "Very high" and "High" were grouped into "High"; "Near-zero" and "Low" responses into "Low".

QUESTION No. 3 (CONT.)

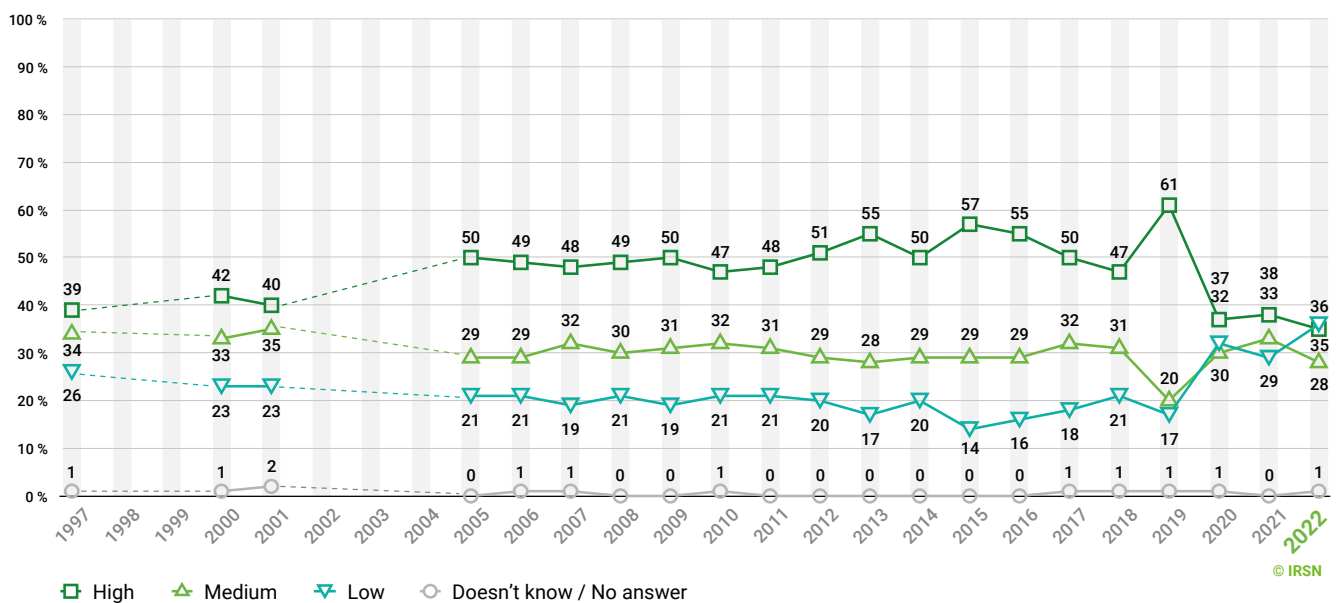
Do you trust the French authorities to protect people against the following risks?

→ EVOLUTION OF THE RESULTS 1997-2022 (IN %)

11 - Drugs



12 - Forest fires



In 2021 and 2022, the questions "medical risks", "hazardous materials transportation", "work-related illnesses", "mobile phone relay antennas", "household waste incinerators" were not surveyed but they are still represented this year.

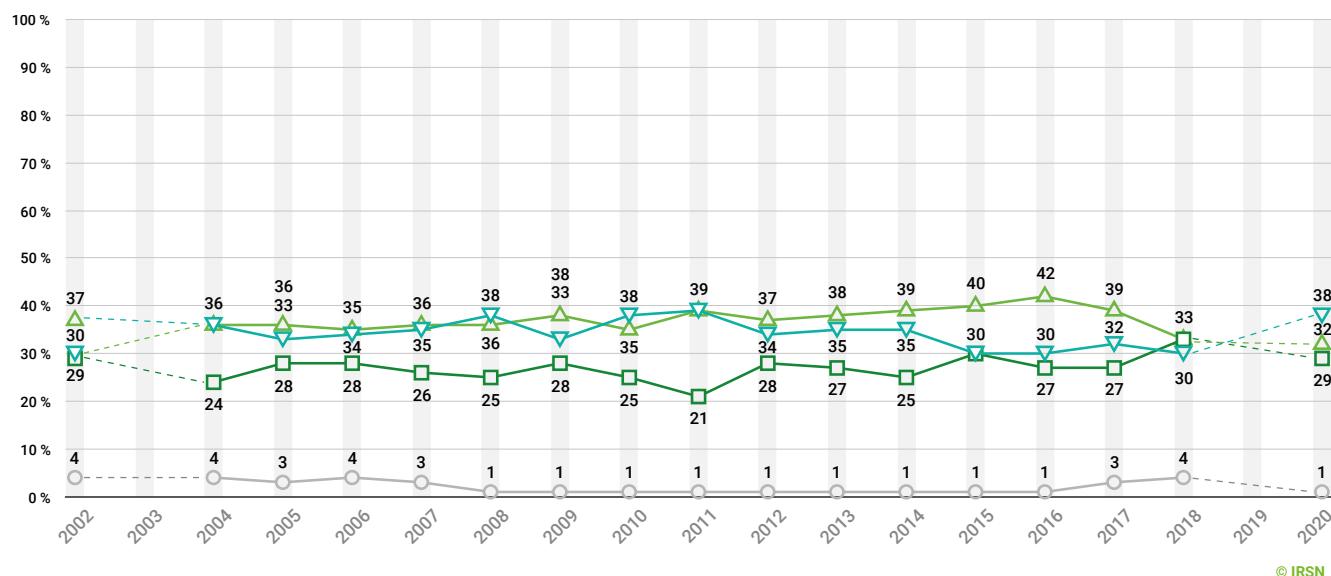
The answers "Very high" and "High" were grouped into "High"; "Near-zero" and "Low" responses into "Low".

QUESTION No. 3 (CONT.)

Do you trust the French authorities to protect people against the following risks?

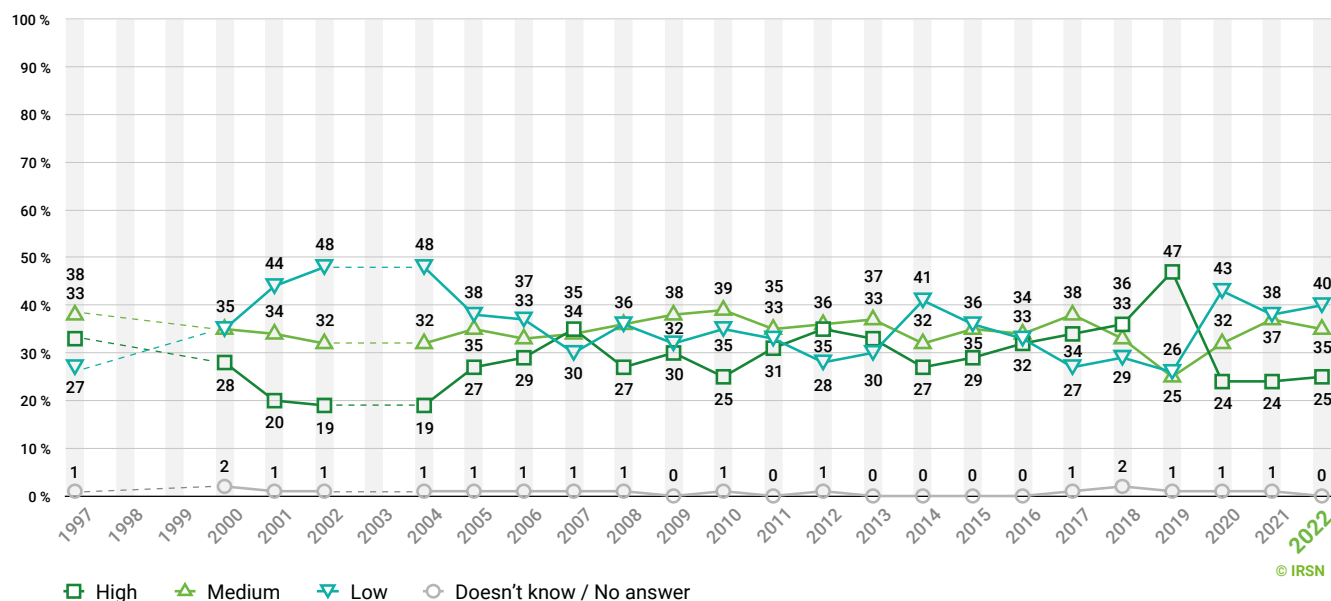
→ EVOLUTION OF THE RESULTS 1997-2022 (IN %)

13 - Household waste incinerators



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14 - Floods



© IRSN

In 2021 and 2022, the questions "medical risks", "hazardous materials transportation", "work-related illnesses", "mobile phone relay antennas", "household waste incinerators" were not surveyed but they are still represented this year.

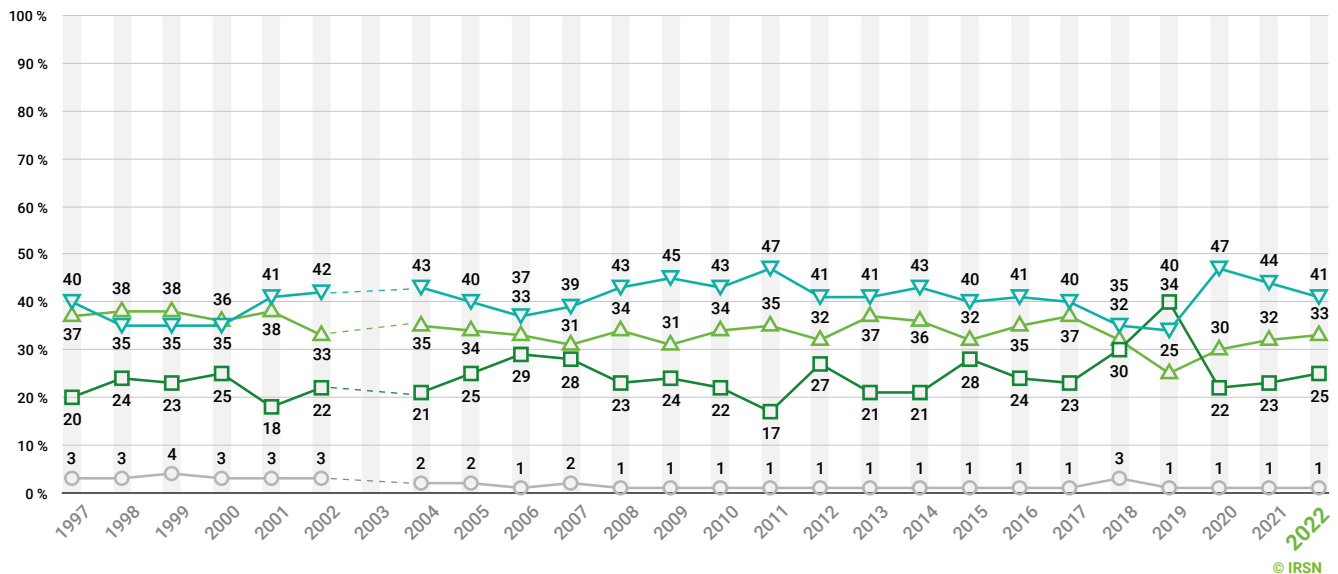
The answers "Very high" and "High" were grouped into "High"; "Near-zero" and "Low" responses into "Low".

QUESTION No. 3 (CONT.)

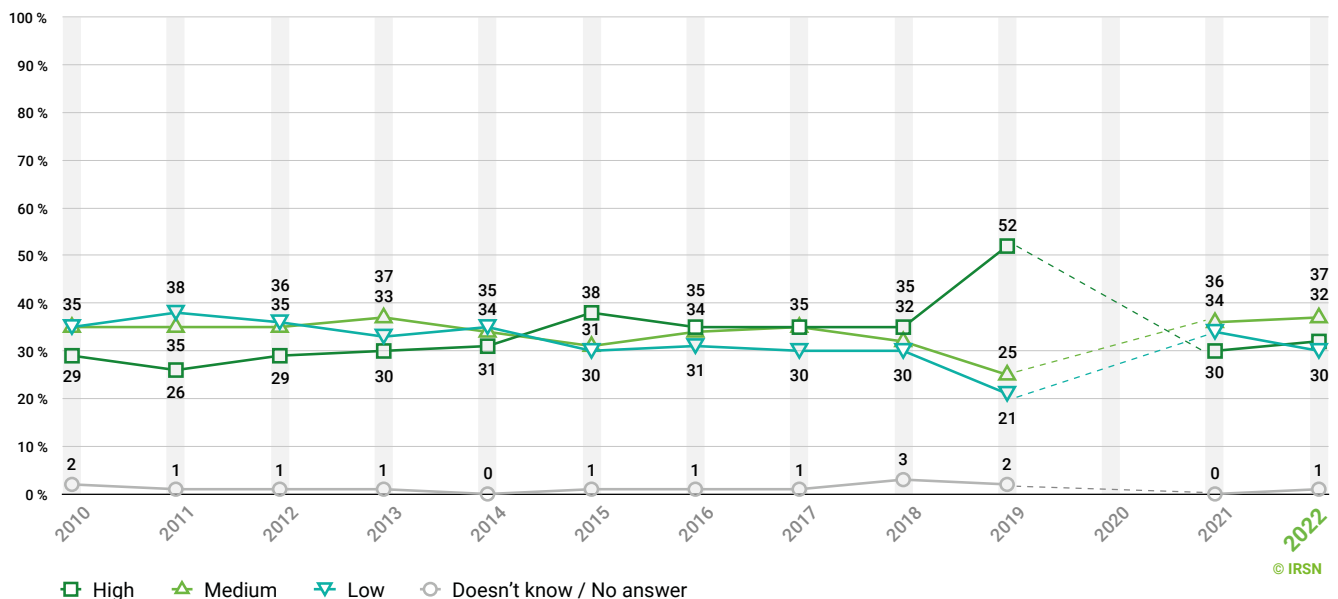
Do you trust the French authorities to protect people against the following risks?

→ EVOLUTION OF THE RESULTS 1997-2022 (IN %)

15 - Chemical Facilities



16 - High-voltage lines



In 2021 and 2022, the questions "medical risks", "hazardous materials transportation", "work-related illnesses", "mobile phone relay antennas", "household waste incinerators" were not surveyed but they are still represented this year.

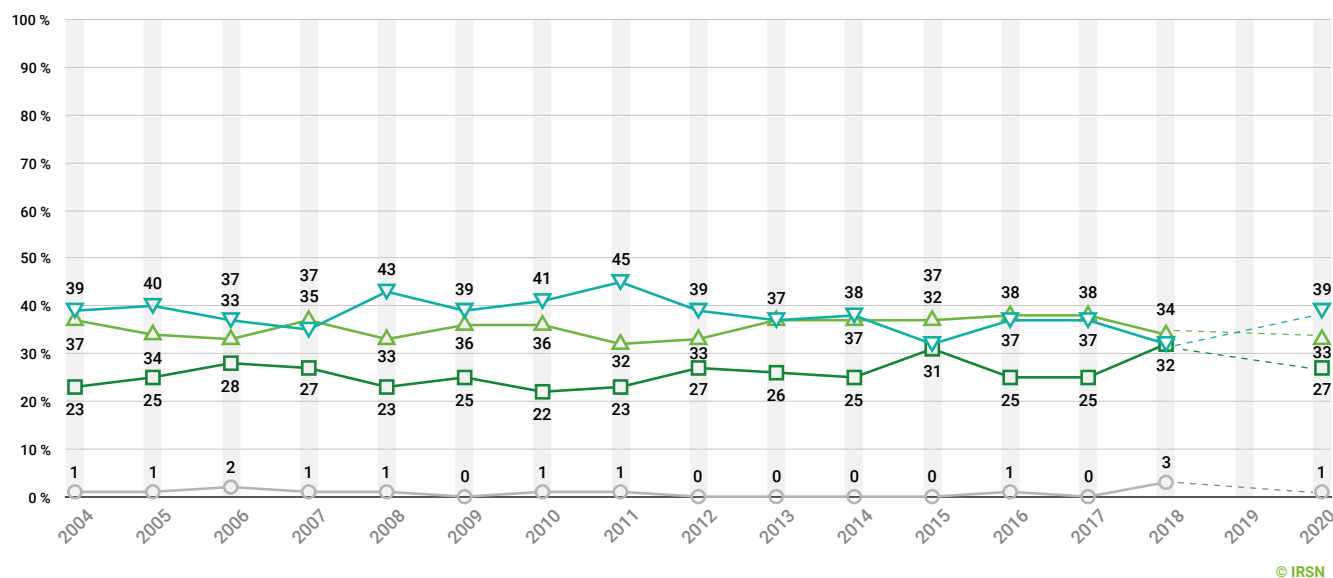
The answers "Very high" and "High" were grouped into "High"; "Near-zero" and "Low" responses into "Low".

QUESTION No. 3 (CONT.)

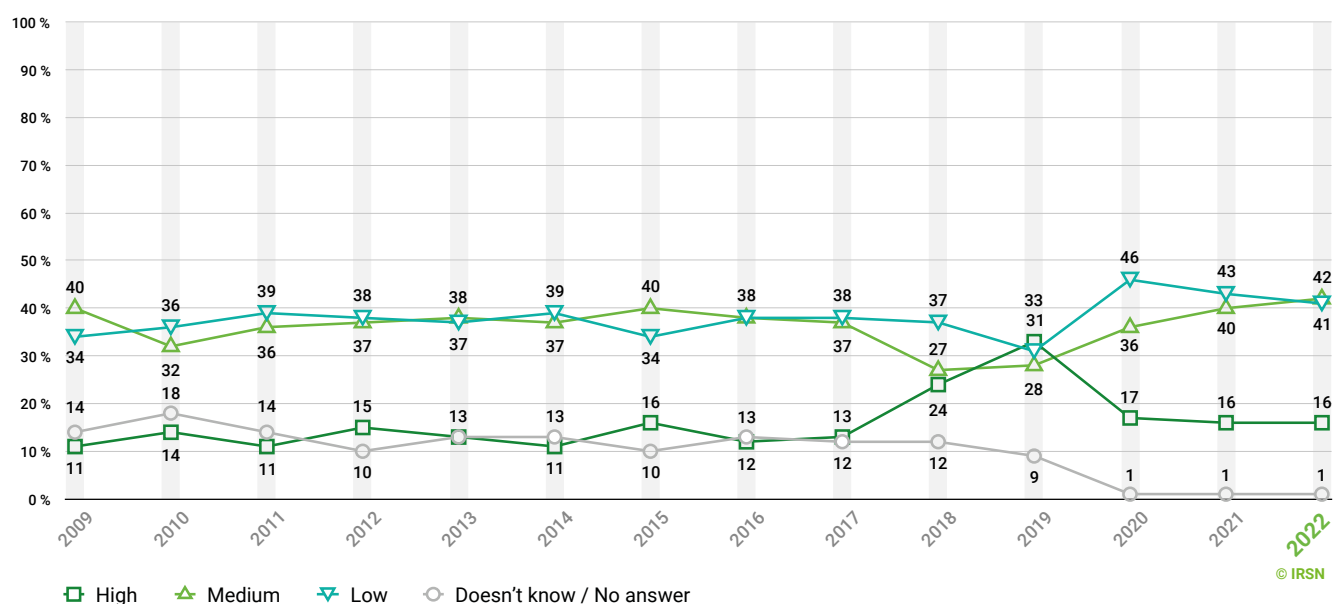
Do you trust the French authorities to protect people against the following risks?

→ EVOLUTION OF THE RESULTS 2004-2022 (IN %)

17 - Work-related illnesses



18 - Nanoparticles



In 2021 and 2022, the questions "medical risks", "hazardous materials transportation", "work-related illnesses", "mobile phone relay antennas", "household waste incinerators" were not surveyed but they are still represented this year.

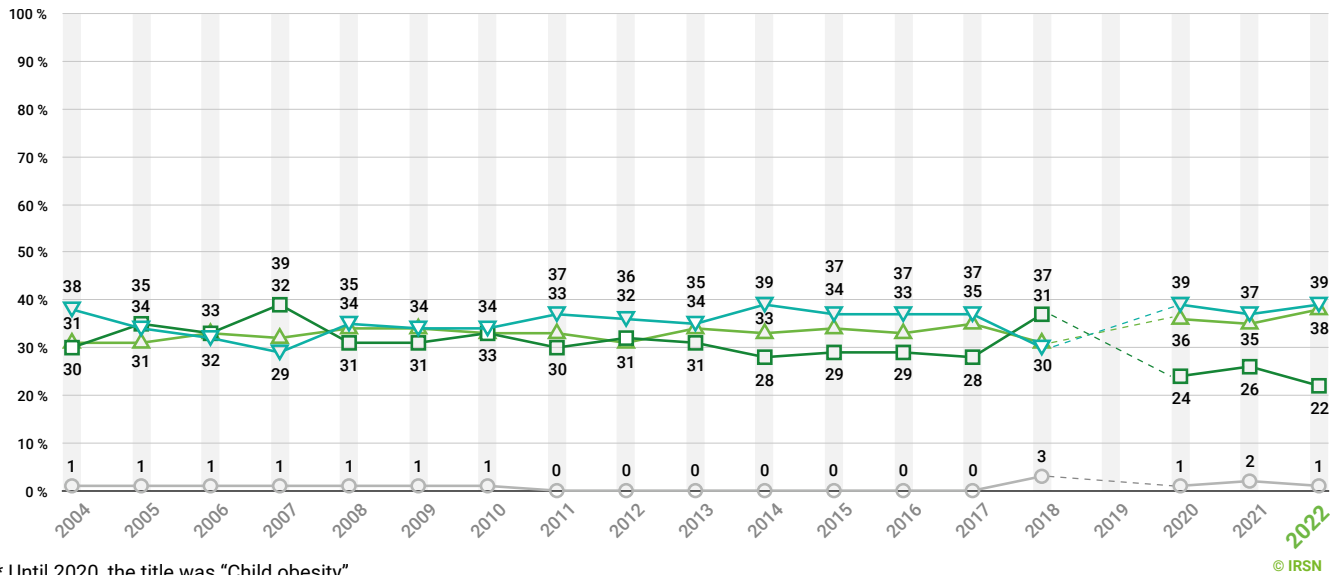
The answers "Very high" and "High" were grouped into "High"; "Near-zero" and "Low" responses into "Low".

QUESTION No. 3 (CONT.)

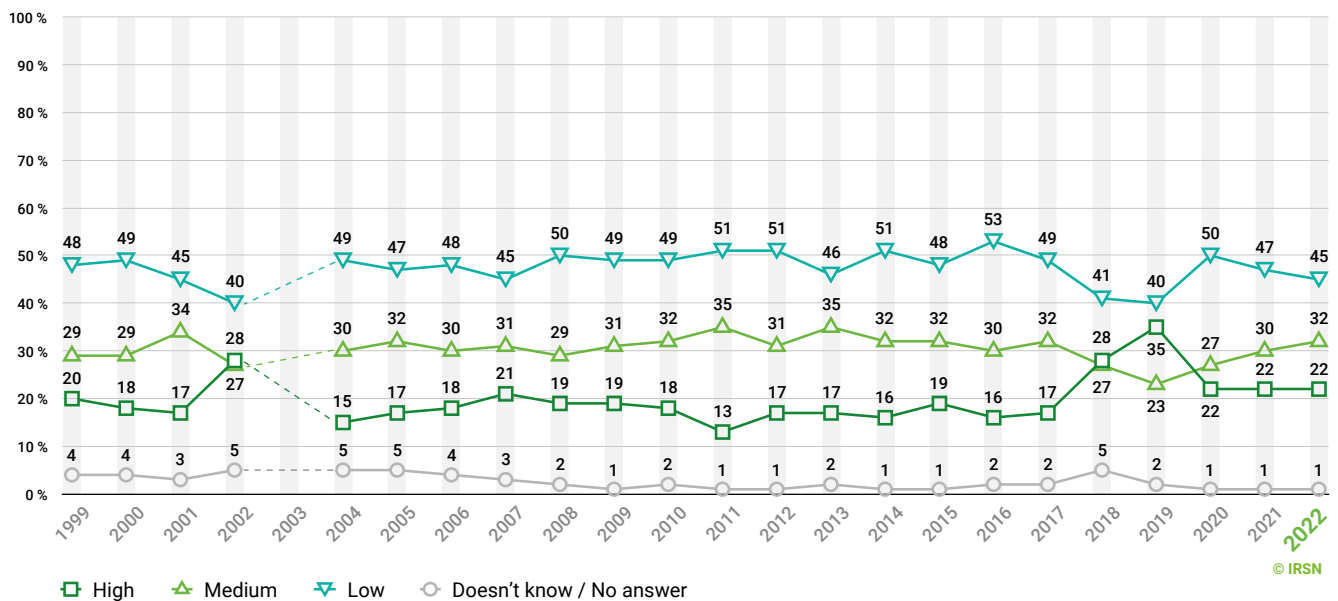
Do you trust the French authorities to protect people against the following risks?

→ EVOLUTION OF THE RESULTS 1999-2022 (IN %)

19 - Obesity*



20 - GMO's (Genetically Modified Organisms)*



In 2021 and 2022, the questions "medical risks", "hazardous materials transportation", "work-related illnesses", "mobile phone relay antennas", "household waste incinerators" were not surveyed but they are still represented this year.

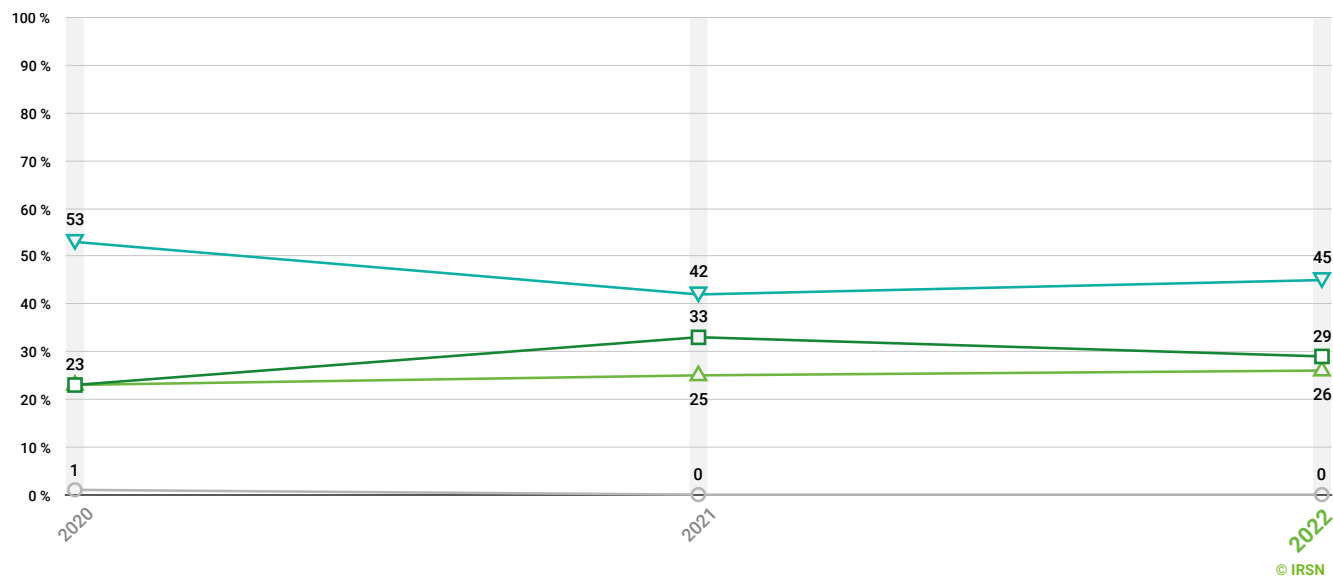
The answers "Very high" and "High" were grouped into "High"; "Near-zero" and "Low" responses into "Low".

QUESTION No. 3 (CONT.)

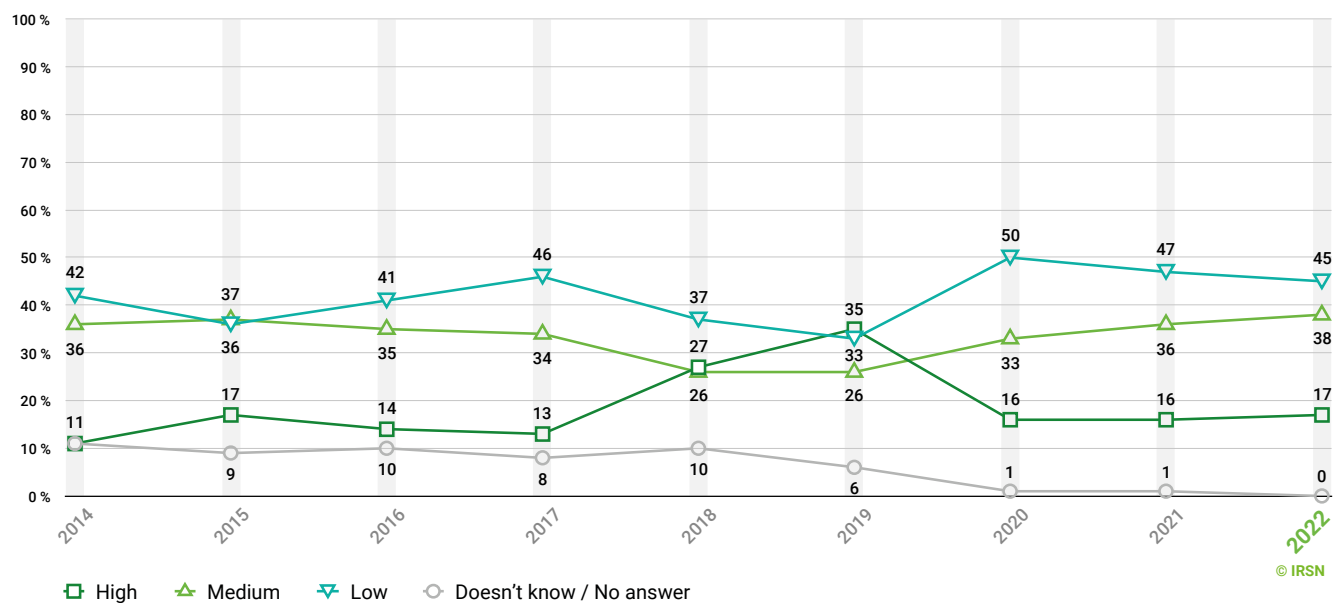
Do you trust the French authorities to protect people against the following risks?

→ EVOLUTION OF THE RESULTS 2014-2022 (IN %)

21 - Pandemics (global epidemics)



22 - Endocrine disruptors



In 2021 and 2022, the questions "medical risks", "hazardous materials transportation", "work-related illnesses", "mobile phone relay antennas", "household waste incinerators" were not surveyed but they are still represented this year.

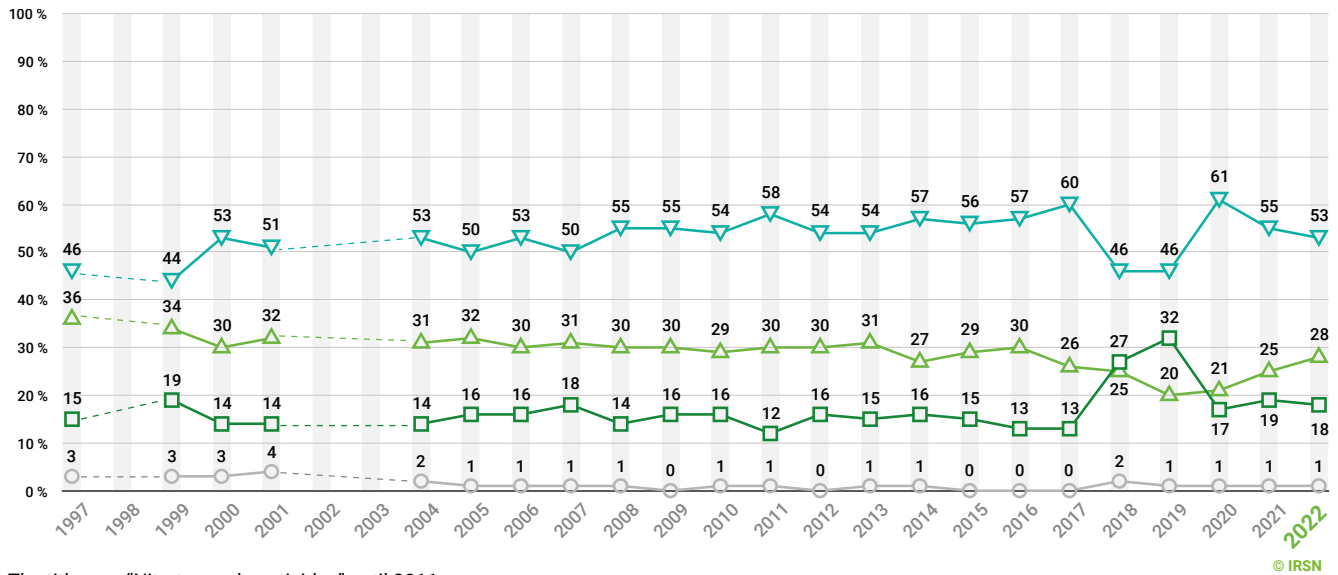
The answers "Very high" and "High" were grouped into "High"; "Near-zero" and "Low" responses into "Low".

QUESTION No. 3 (CONT.)

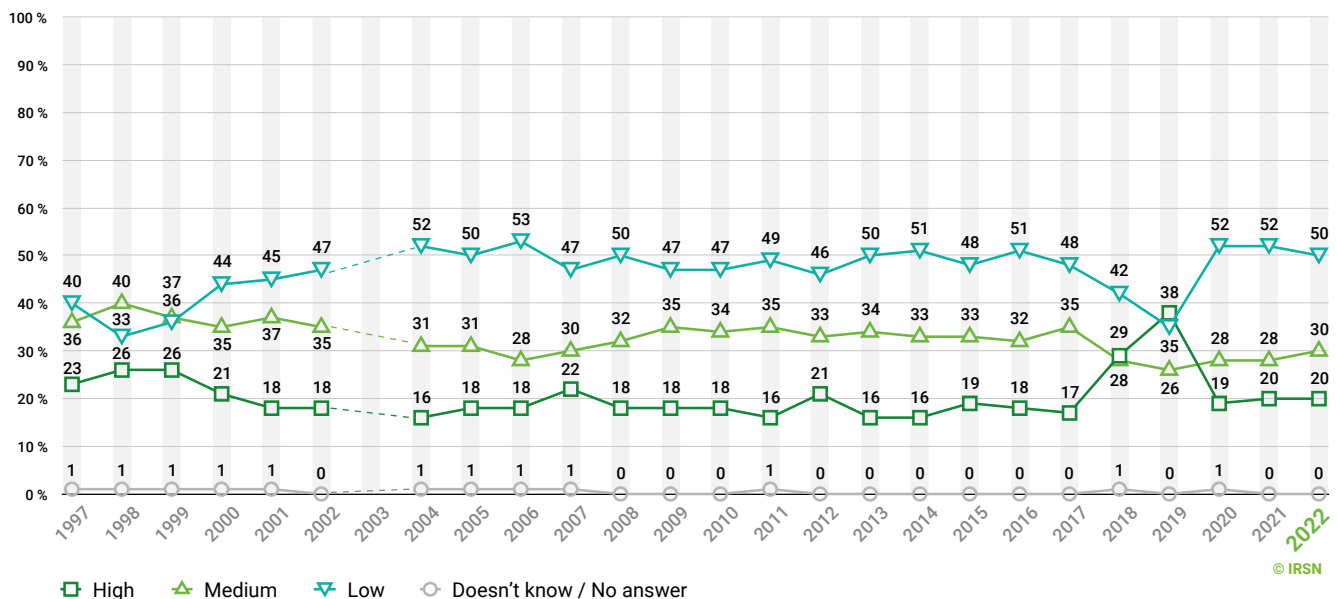
Do you trust the French authorities to protect people against the following risks?

→ EVOLUTION OF THE RESULTS 1997-2022 (IN %)

23 - Pesticides*



24 - Air pollution*



In 2021 and 2022, the questions "medical risks", "hazardous materials transportation", "work-related illnesses", "mobile phone relay antennas", "household waste incinerators" were not surveyed but they are still represented this year.

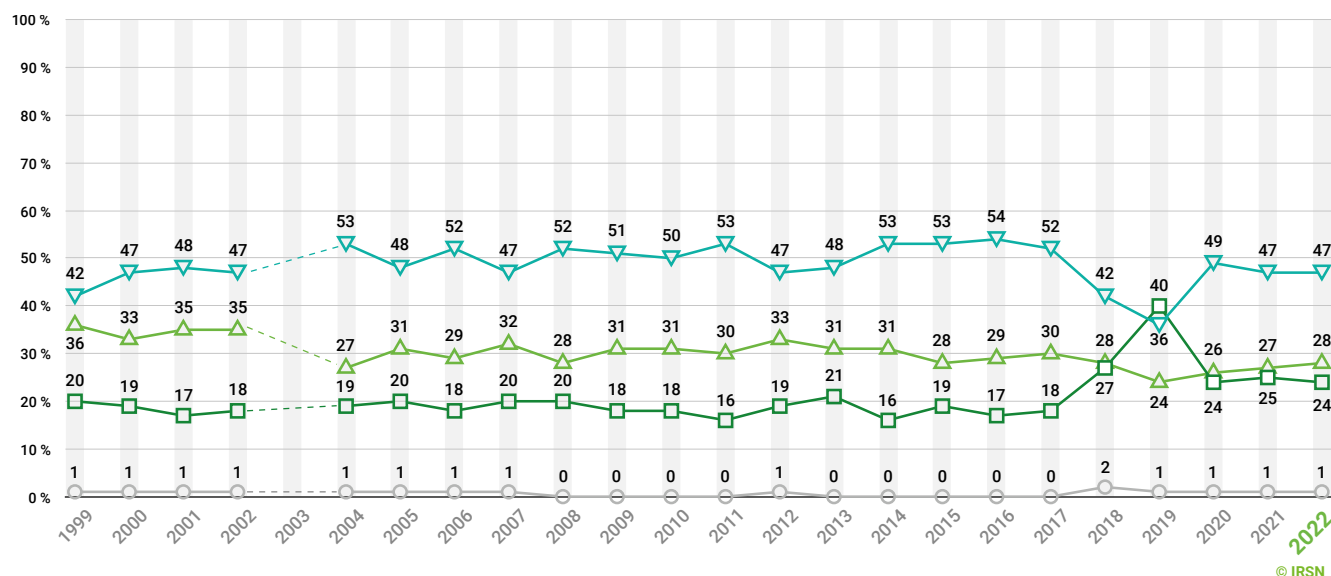
The answers "Very high" and "High" were grouped into "High"; "Near-zero" and "Low" responses into "Low".

QUESTION No. 3 (CONT.)

Do you trust the French authorities to protect people against the following risks?

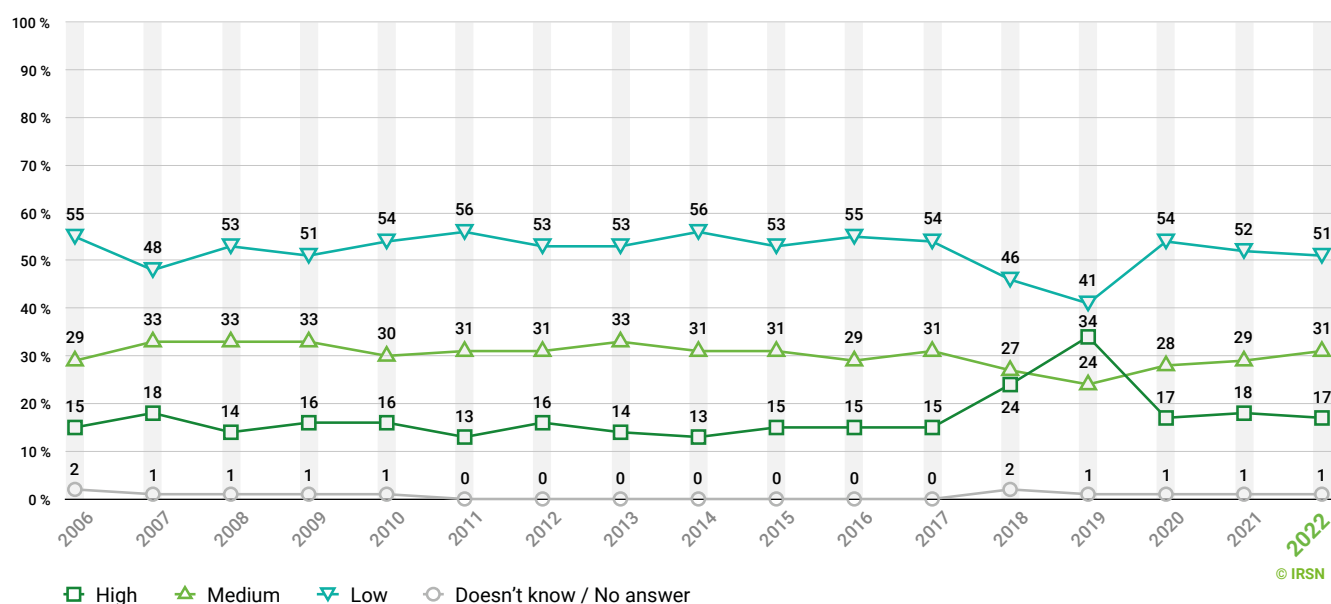
→ EVOLUTION OF THE RESULTS 1999-2022 (IN %)

25 - Water pollution*



* The title was "Pollution of lakes, rivers and seas" until 2018.

26 - Soil pollution



■ High ▲ Medium ▼ Low ○ Doesn't know / No answer

In 2021 and 2022, the questions "medical risks", "hazardous materials transportation", "work-related illnesses", "mobile phone relay antennas", "household waste incinerators" were not surveyed but they are still represented this year.

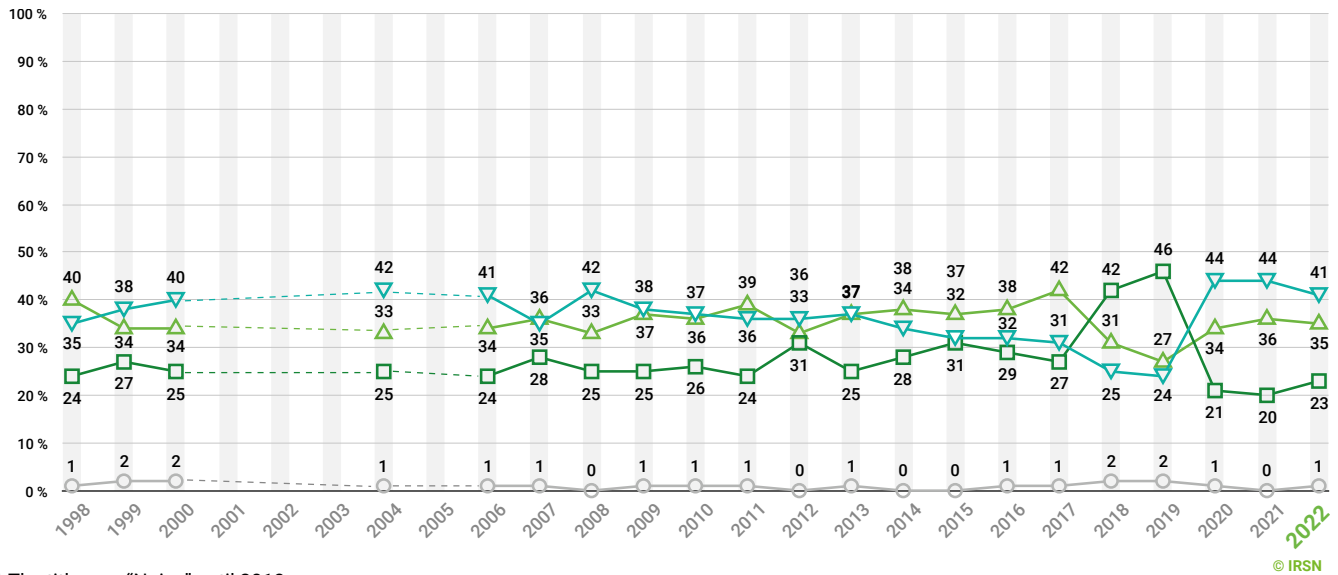
The answers "Very high" and "High" were grouped into "High"; "Near-zero" and "Low" responses into "Low".

QUESTION No. 3 (CONT.)

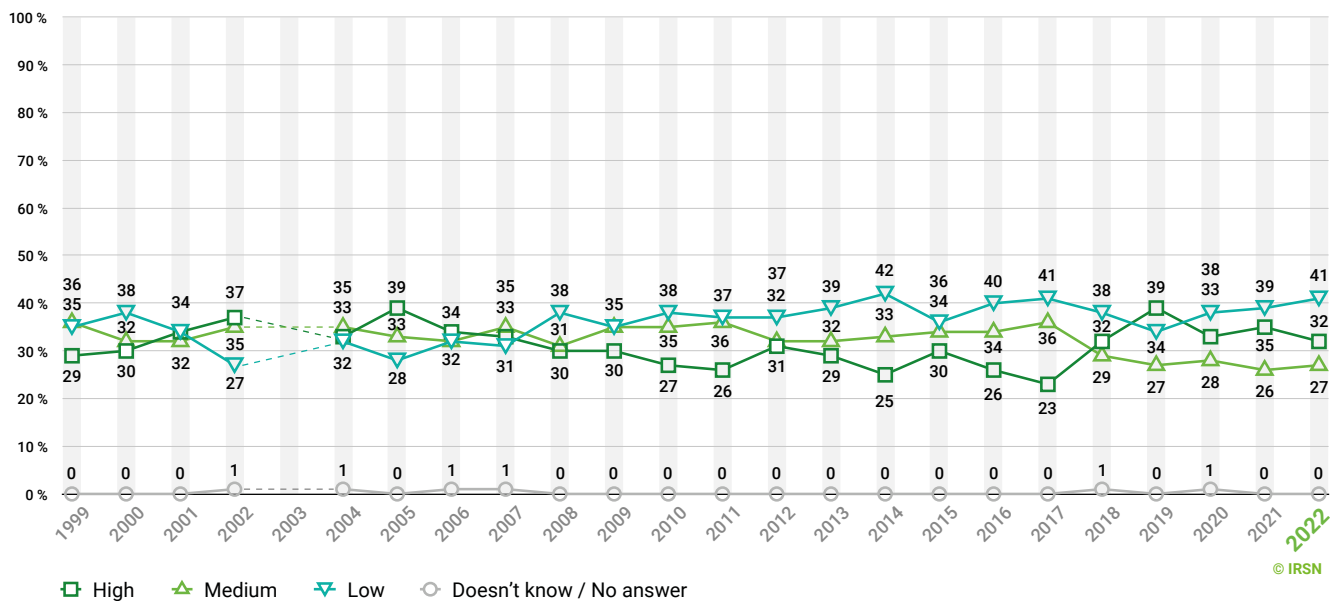
Do you trust the French authorities to protect people against the following risks?

→ EVOLUTION OF THE RESULTS 1998-2022 (IN %)

27 - Noise pollution*



28 - Food products safety*



In 2021 and 2022, the questions "medical risks", "hazardous materials transportation", "work-related illnesses", "mobile phone relay antennas", "household waste incinerators" were not surveyed but they are still represented this year.

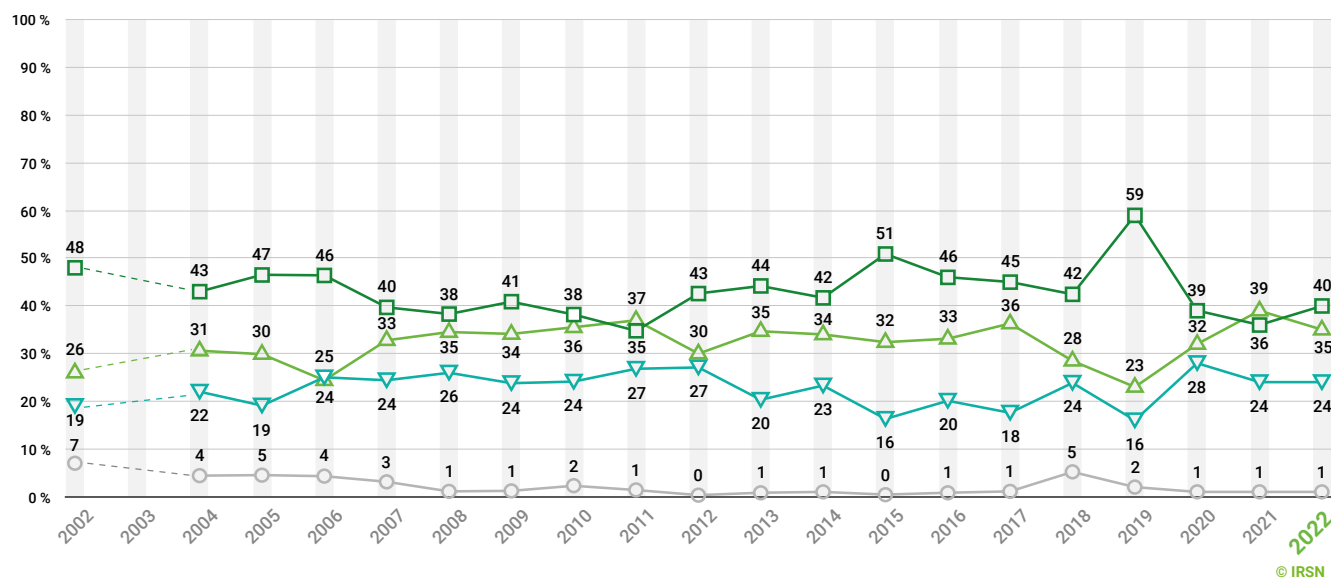
The answers "Very high" and "High" were grouped into "High"; "Near-zero" and "Low" responses into "Low".

QUESTION No. 3 (CONT.)

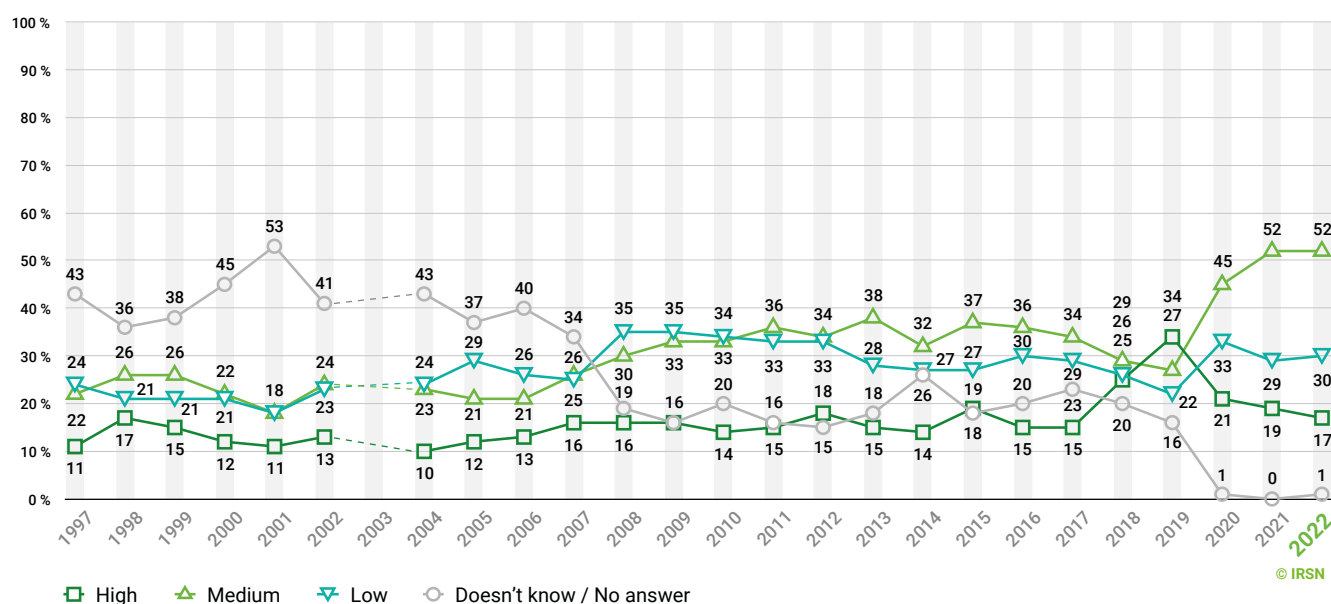
Do you trust the French authorities to protect people against the following risks?

→ EVOLUTION OF THE RESULTS 1997-2022 (IN %)

29 - Medical radiographies



30 - Indoor radon



In 2021 and 2022, the questions "medical risks", "hazardous materials transportation", "work-related illnesses", "mobile phone relay antennas", "household waste incinerators" were not surveyed but they are still represented this year.

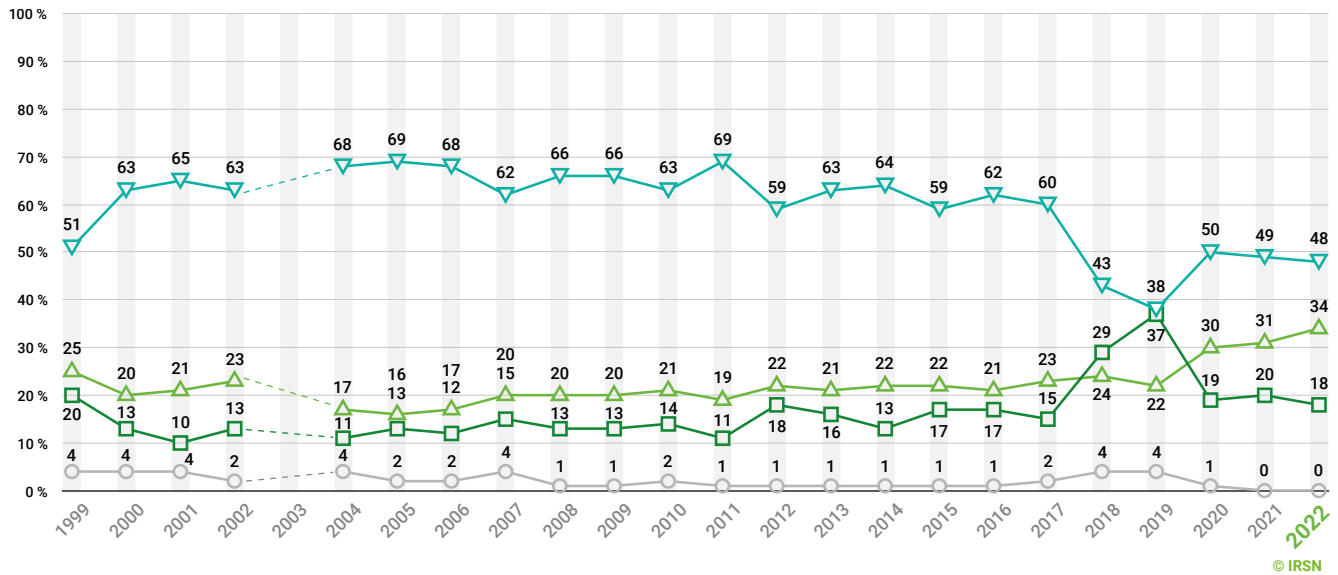
The answers "Very high" and "High" were grouped into "High"; "Near-zero" and "Low" responses into "Low".

QUESTION No. 3 (CONT.)

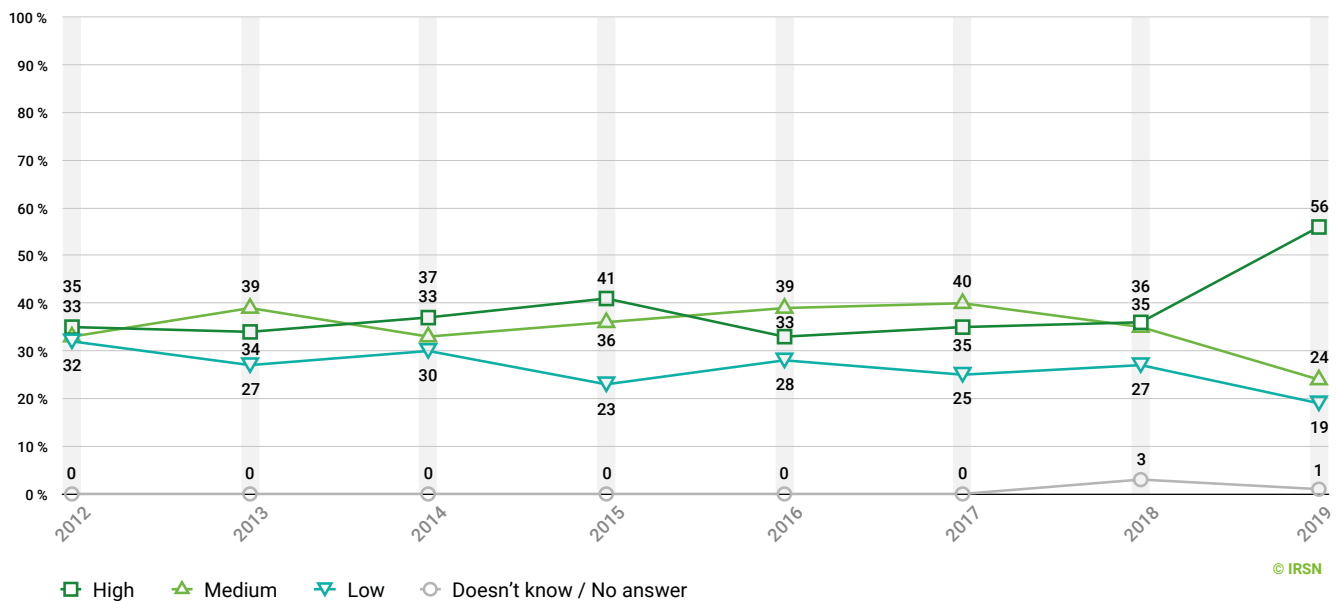
Do you trust the French authorities to protect people against the following risks?

→ EVOLUTION OF THE RESULTS 1999-2022 (IN %)

31 - Radioactive fallouts in France from the Chernobyl accident



32 - Medical risks



In 2021 and 2022, the questions "medical risks", "hazardous materials transportation", "work-related illnesses", "mobile phone relay antennas", "household waste incinerators" were not surveyed but they are still represented this year.

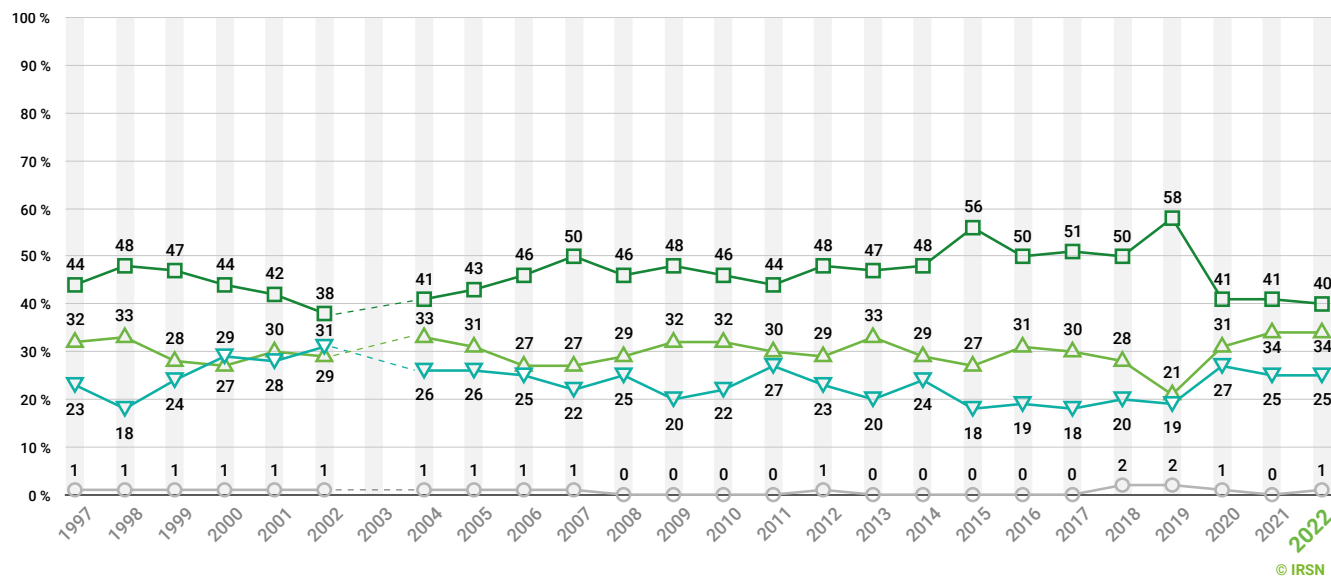
The answers "Very high" and "High" were grouped into "High"; "Near-zero" and "Low" responses into "Low".

QUESTION No. 3 (CONT.)

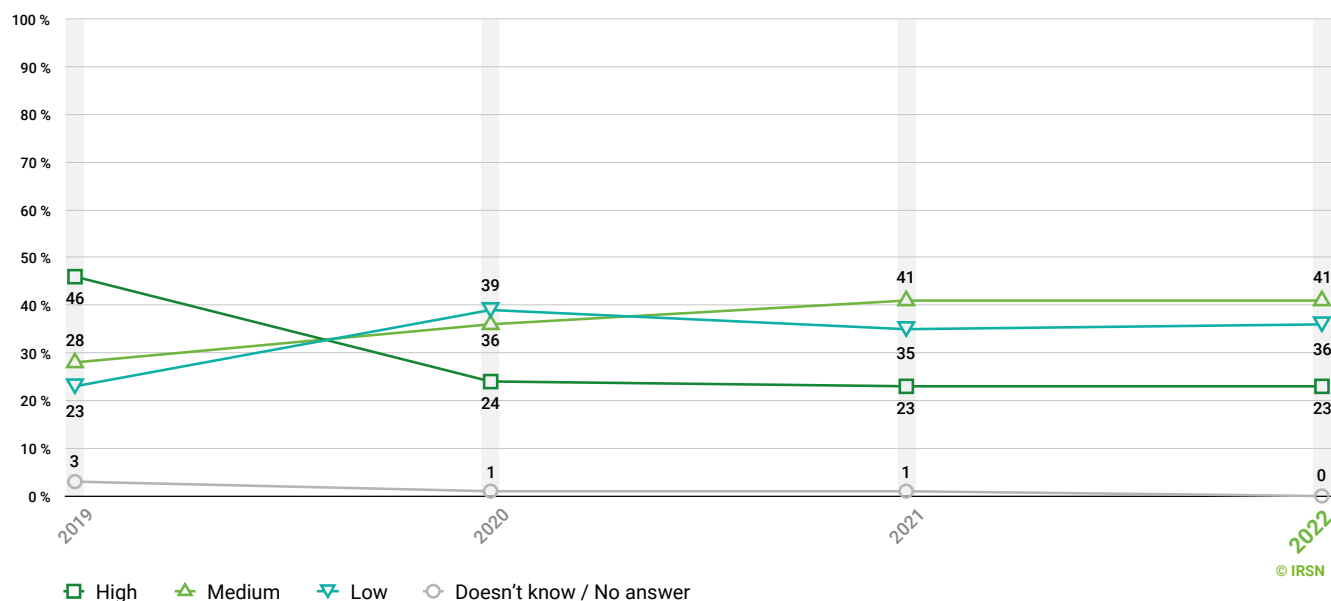
Do you trust the French authorities to protect people against the following risks?

→ EVOLUTION OF THE RESULTS 1997-2022 (IN %)

33 - AIDS



34 - Marine submersion (temporary floods caused by the sea)



In 2021 and 2022, the questions "medical risks", "hazardous materials transportation", "work-related illnesses", "mobile phone relay antennas", "household waste incinerators" were not surveyed but they are still represented this year.

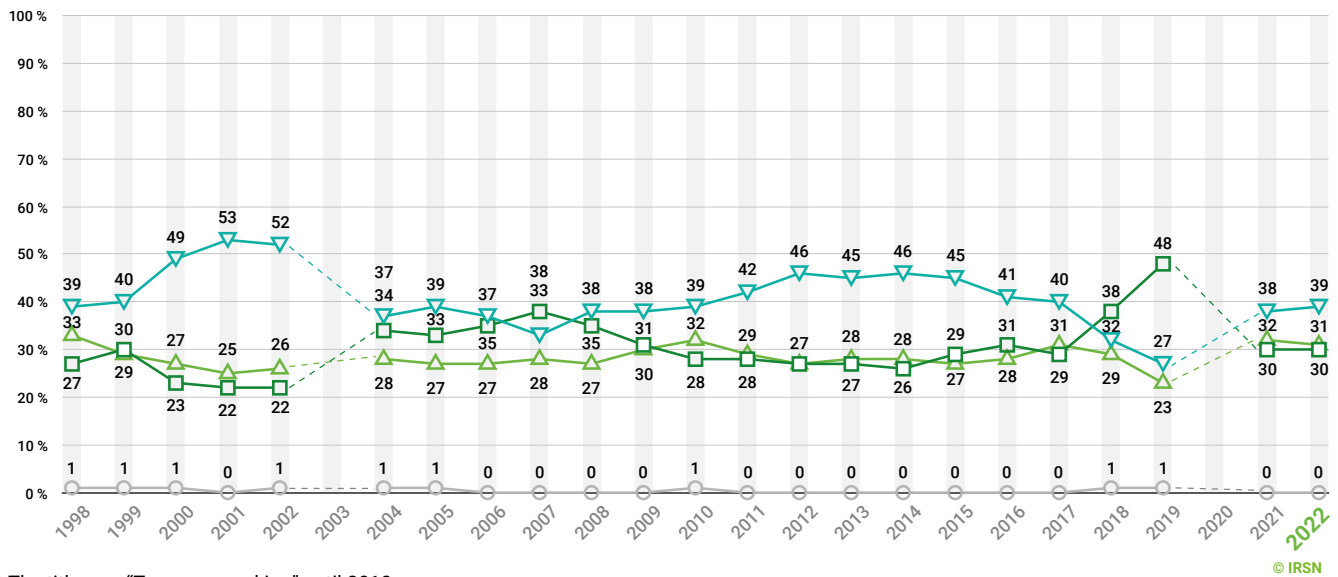
The answers "Very high" and "High" were grouped into "High"; "Near-zero" and "Low" responses into "Low".

QUESTION No. 3 (CONT.)

Do you trust the French authorities to protect people against the following risks?

→ EVOLUTION OF THE RESULTS 1997-2022 (IN %)

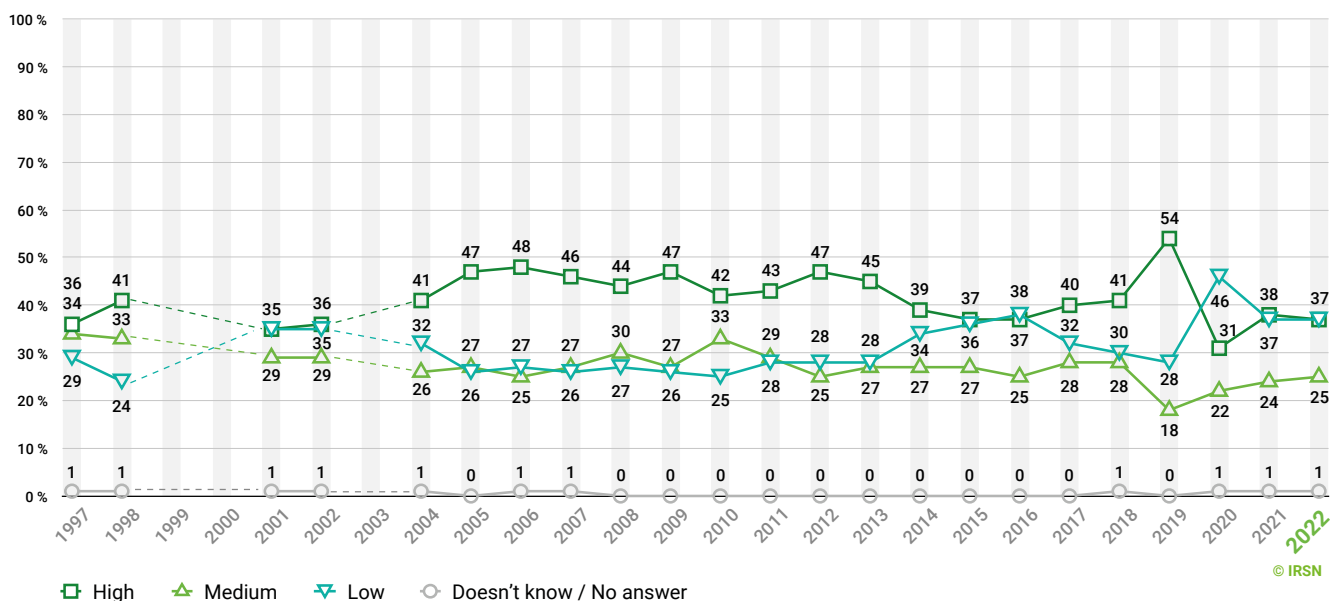
35 - Smoking*



* The title was "Teenage smoking" until 2018.

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36 - Terrorism



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In 2021 and 2022, the questions "medical risks", "hazardous materials transportation", "work-related illnesses", "mobile phone relay antennas", "household waste incinerators" were not surveyed but they are still represented this year.

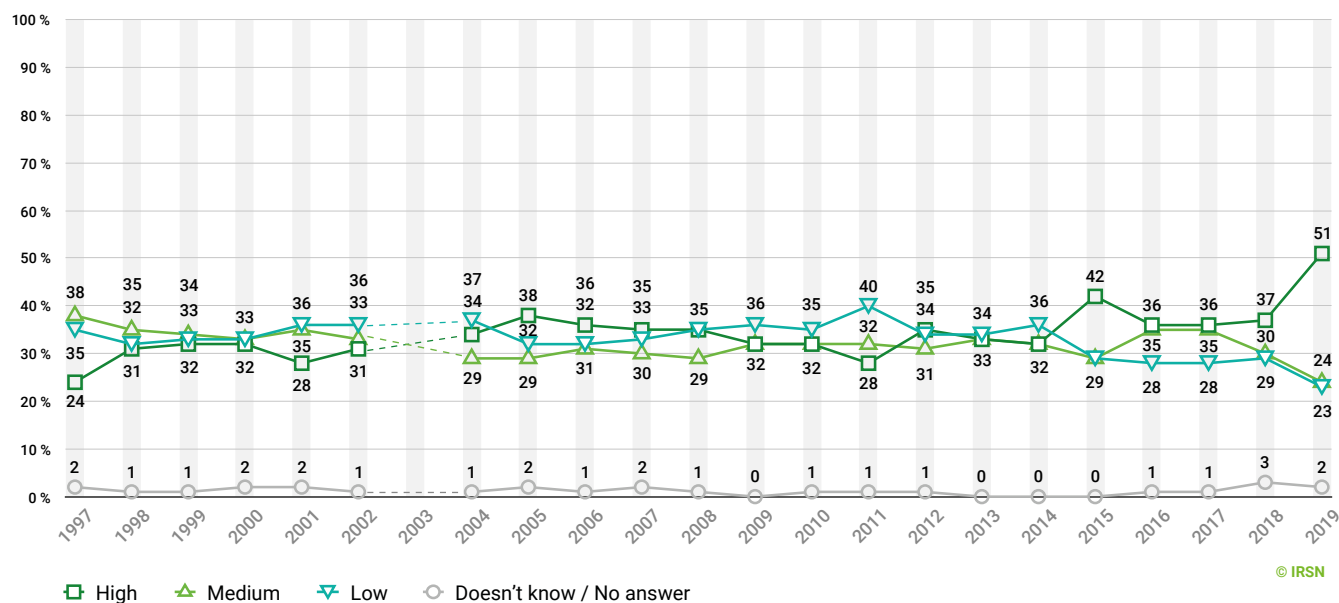
The answers "Very high" and "High" were grouped into "High"; "Near-zero" and "Low" responses into "Low".

QUESTION No. 3 (CONT.)

Do you trust the French authorities to protect people against the following risks?

→ EVOLUTION OF THE RESULTS 1997-2022 (IN %)

37 - Hazardous materials transportations



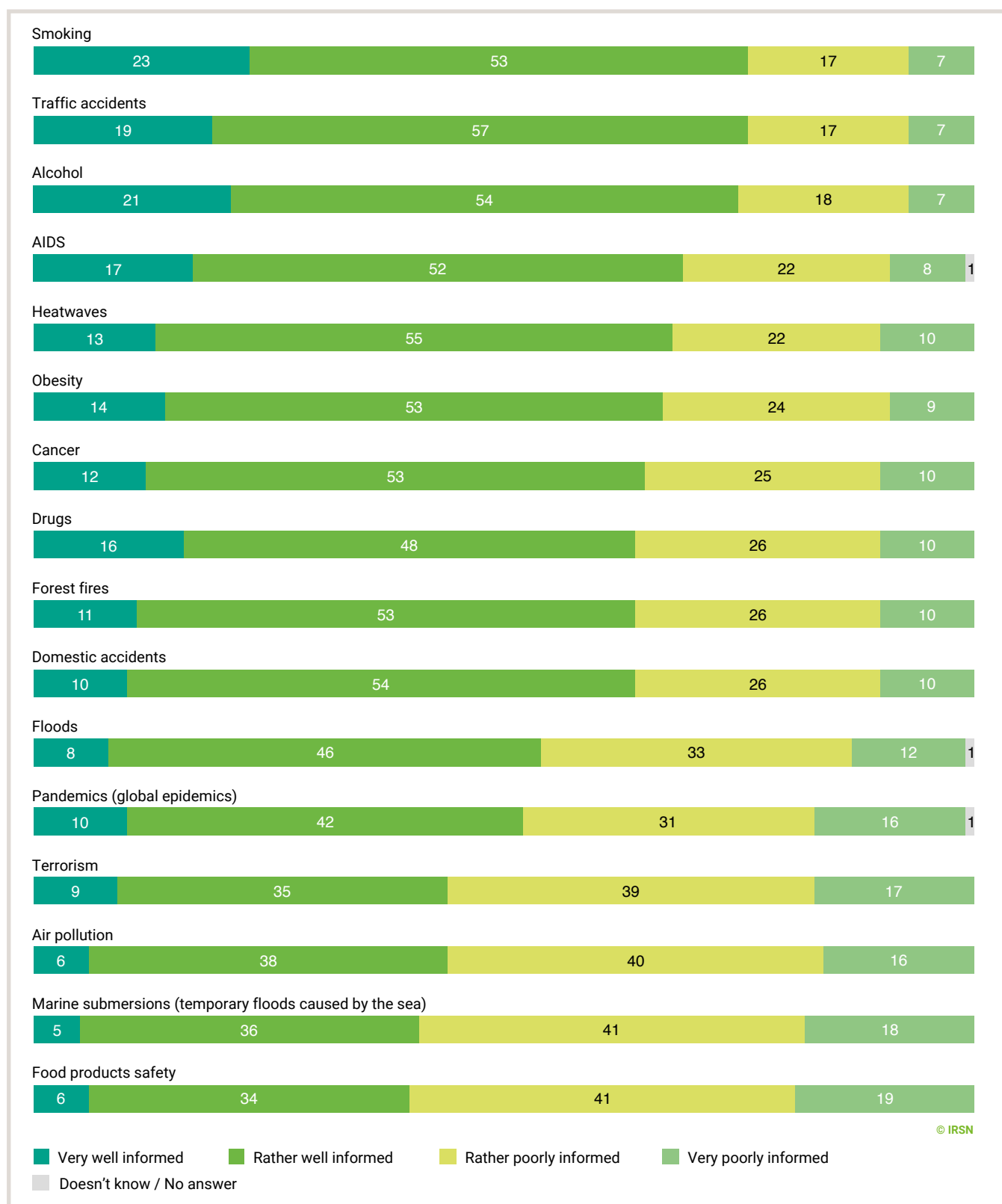
In 2021 and 2022, the questions "medical risks", "hazardous materials transportation", "work-related illnesses", "mobile phone relay antennas", "household waste incinerators" were not surveyed but they are still represented this year.

The answers "Very high" and "High" were grouped into "High"; "Near-zero" and "Low" responses into "Low".

QUESTION No. 4

Do you feel well-informed or poorly informed about the risks related to each of the following areas?

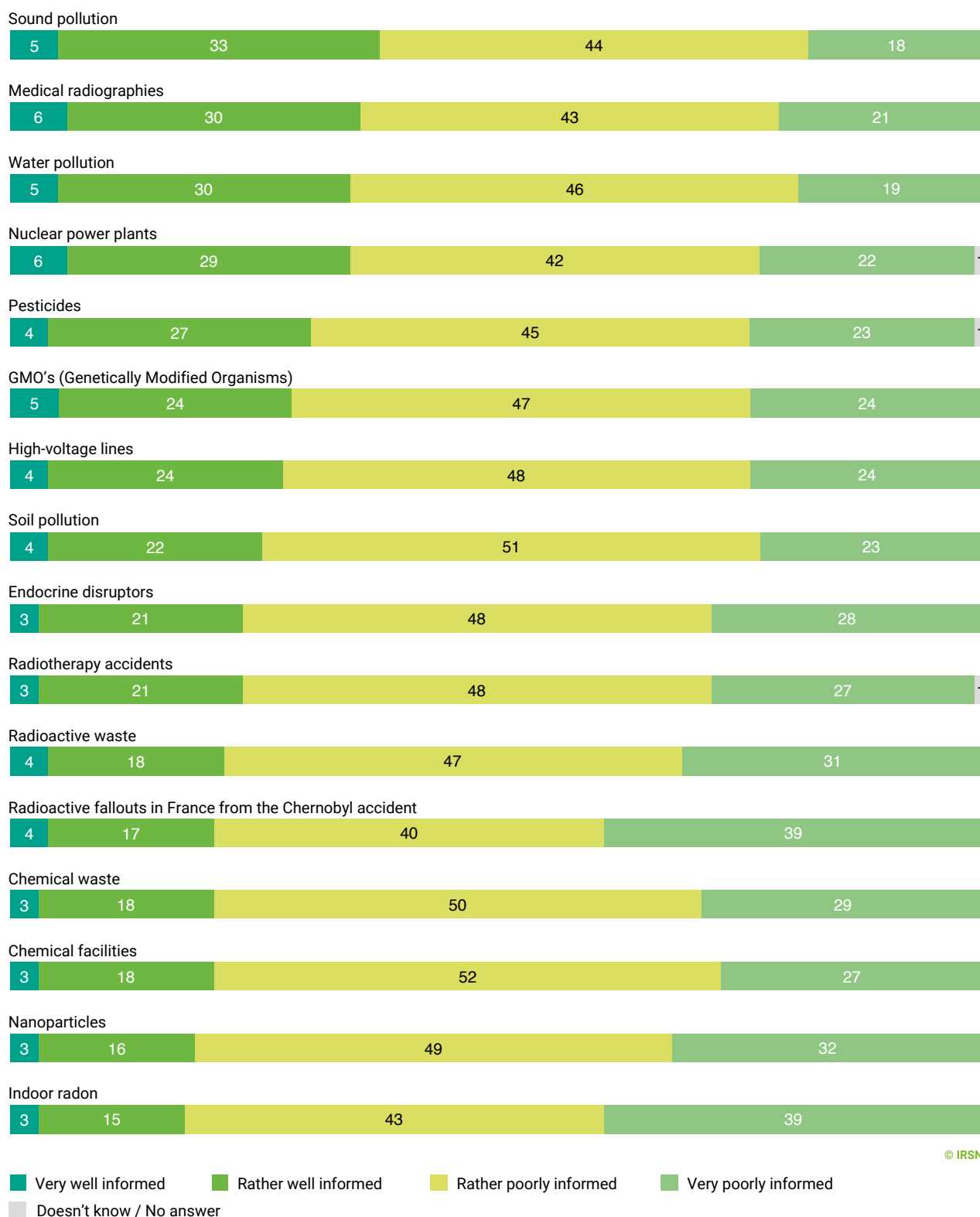
→ NOVEMBER 2022 (IN %)



QUESTION No. 4 (CONT.)

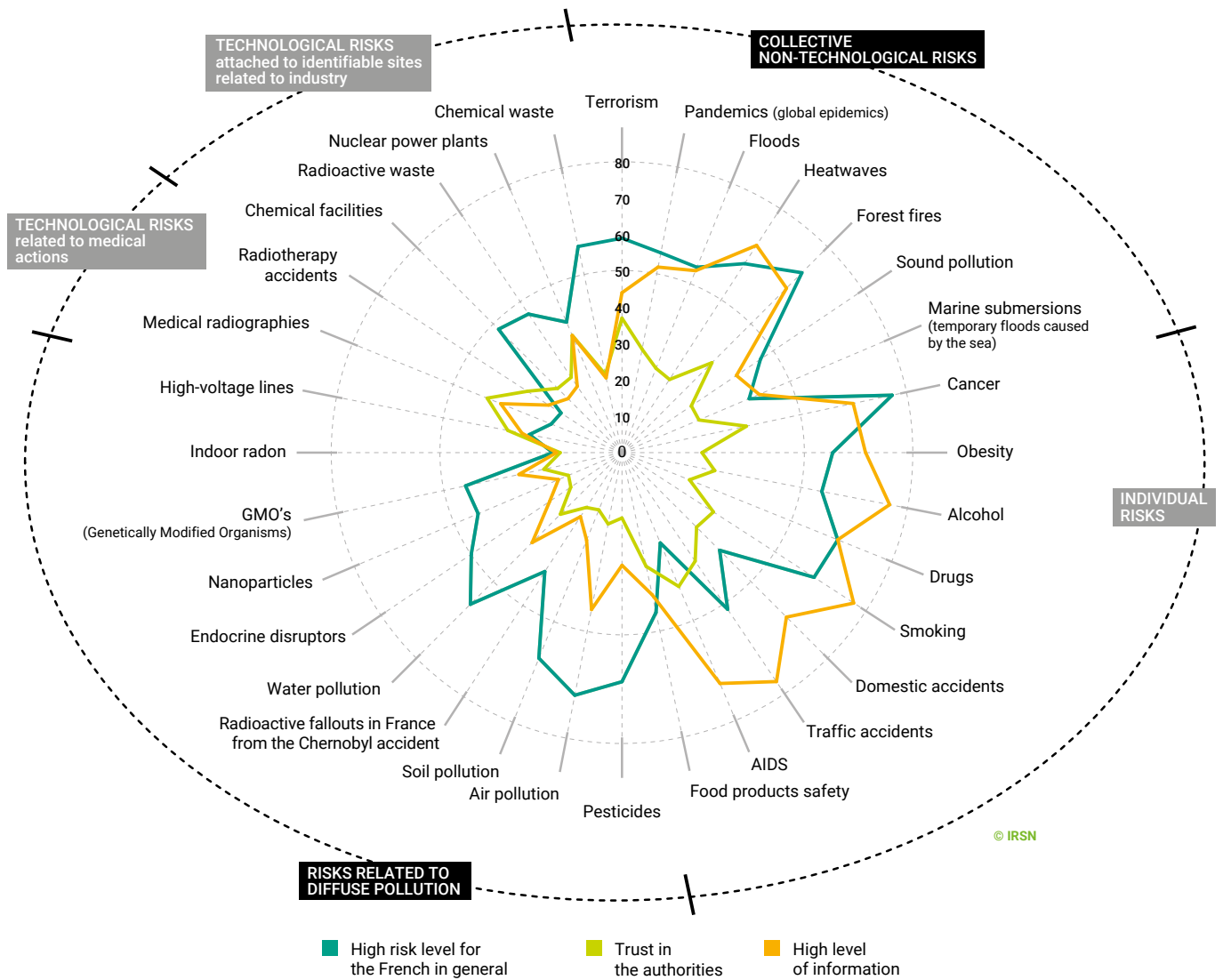
Do you feel well-informed or poorly informed about the risks related to each of the following areas?

→ NOVEMBER 2022 (IN %)



QUESTION
No.1QUESTION
No.3QUESTION
No.4Representation of the 32 risk situations
according to the 3 dimensions.

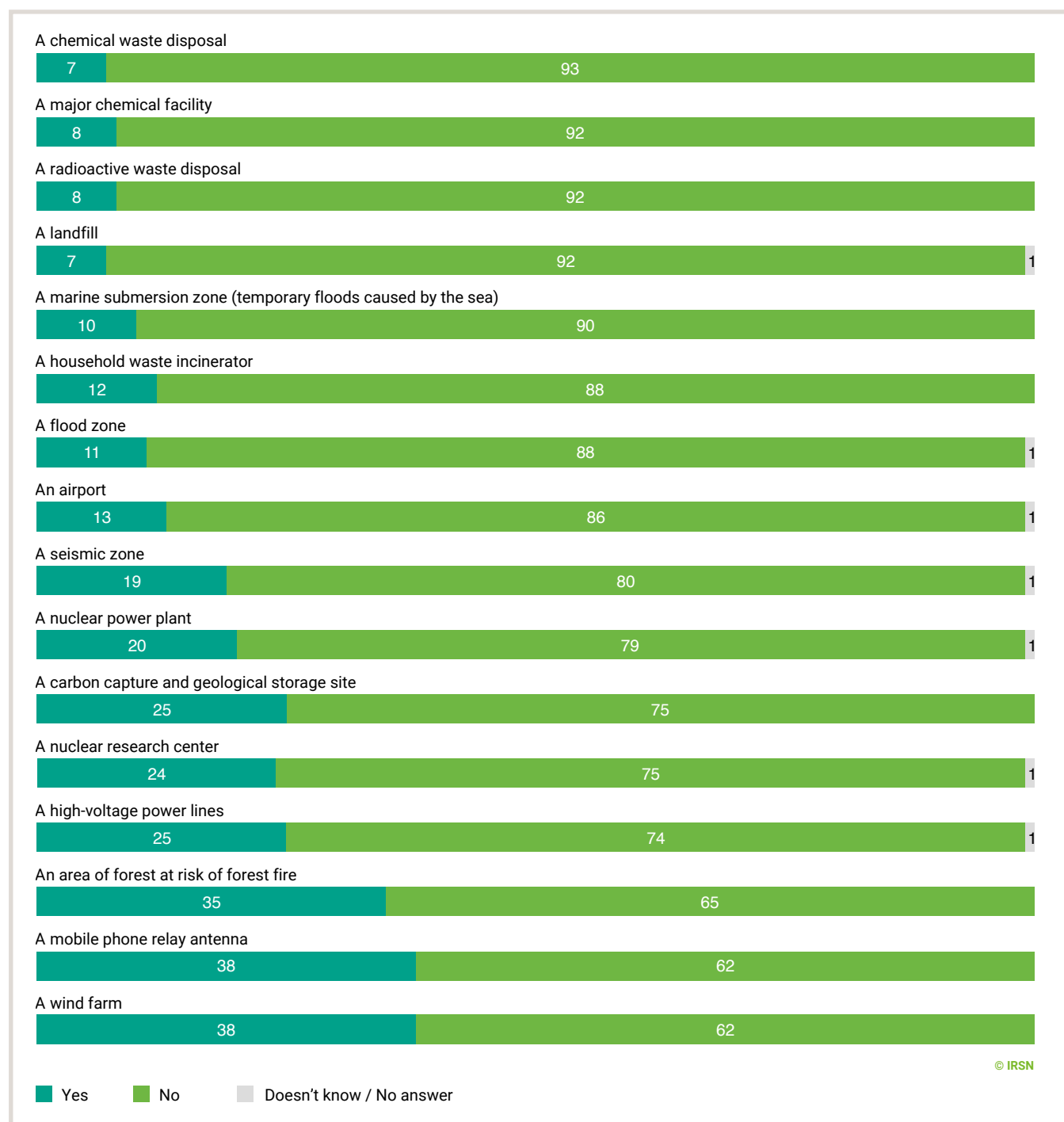
→ NOVEMBER 2022 (IN %)



QUESTION No.5

Would you be willing to live near...?

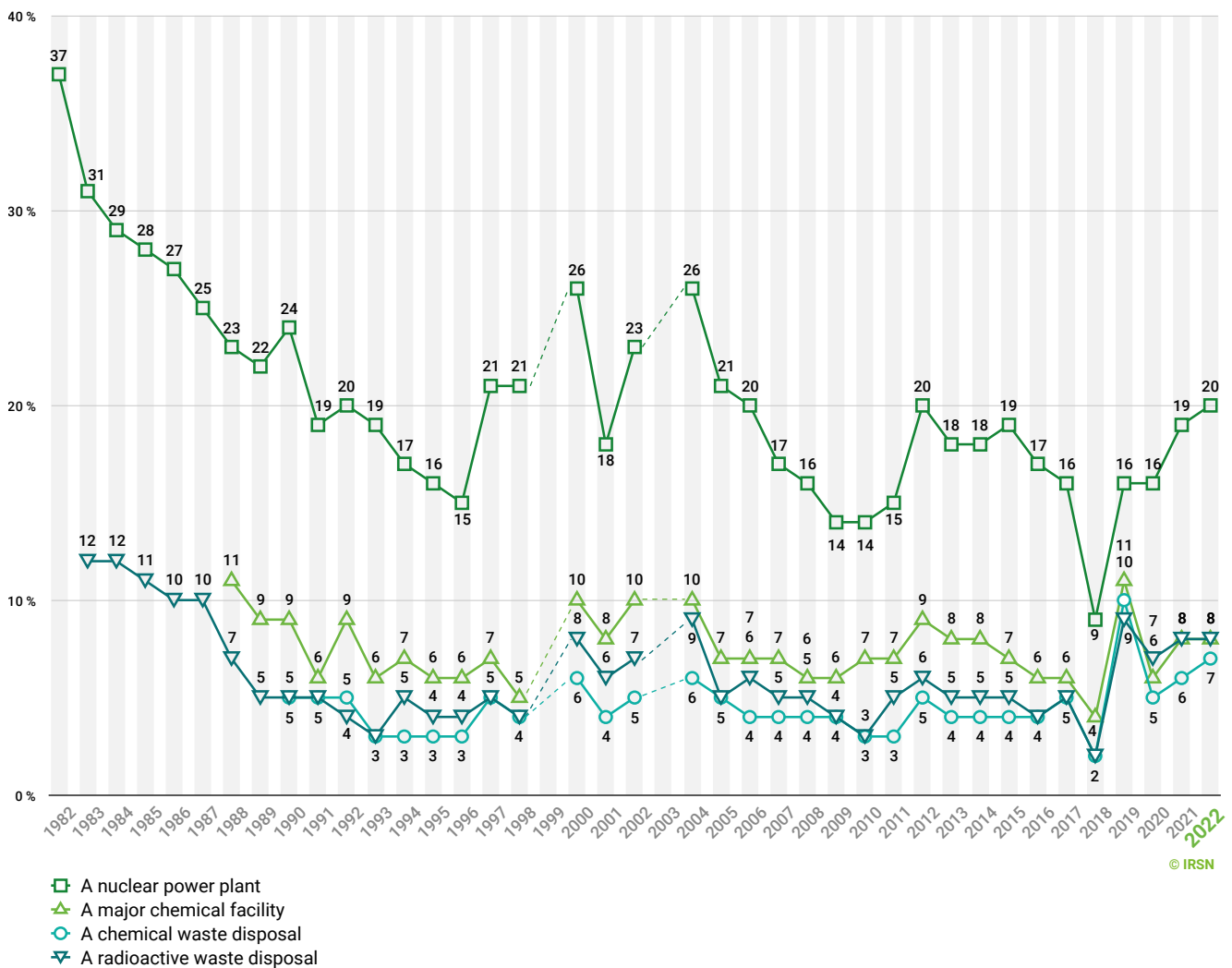
→ NOVEMBER 2022 (IN %)



QUESTION No.5 (CONT.)

Would you be willing to live near...?

→ EVOLUTION OF THE "YES" ANSWERS 1982-2022 (IN %)

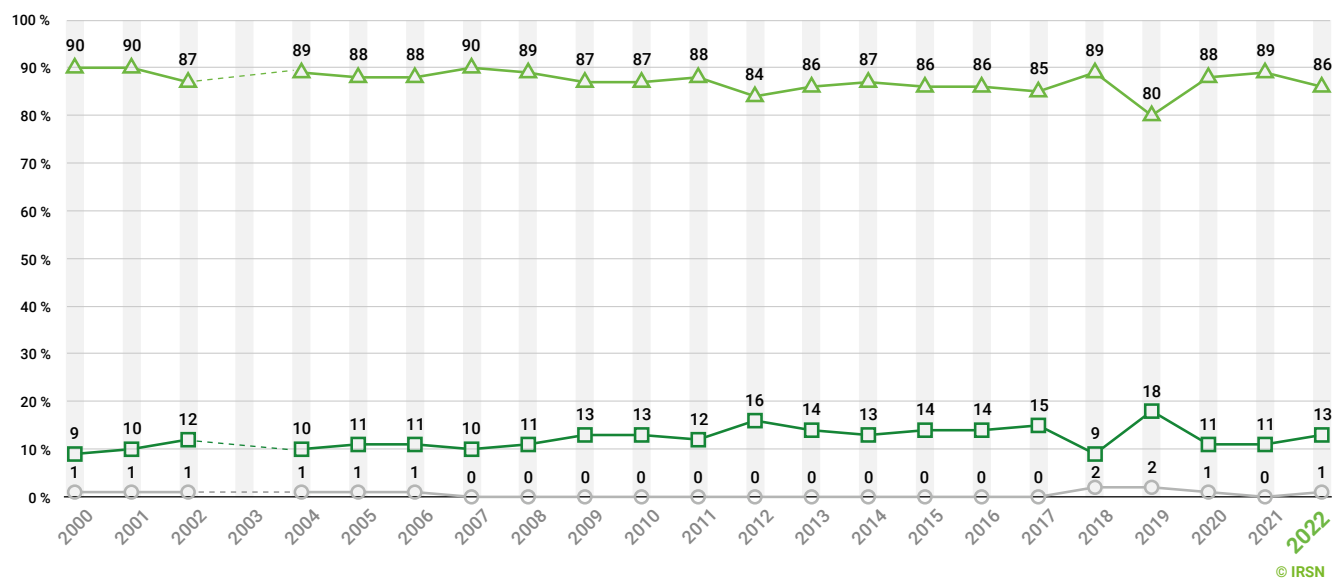


QUESTION No.5 (CONT.)

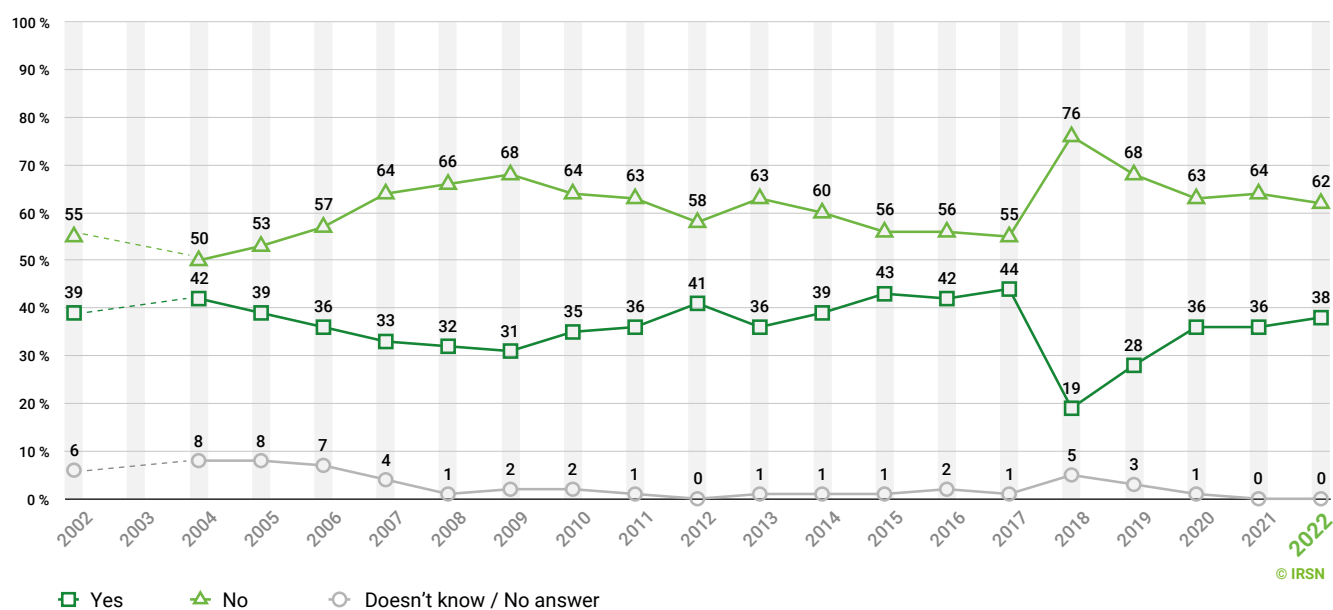
Would you be willing to live near...?

→ EVOLUTION OF THE RESULTS 2000-2022 (IN %)

1 - An airport



2 - A mobile phone relay antenna

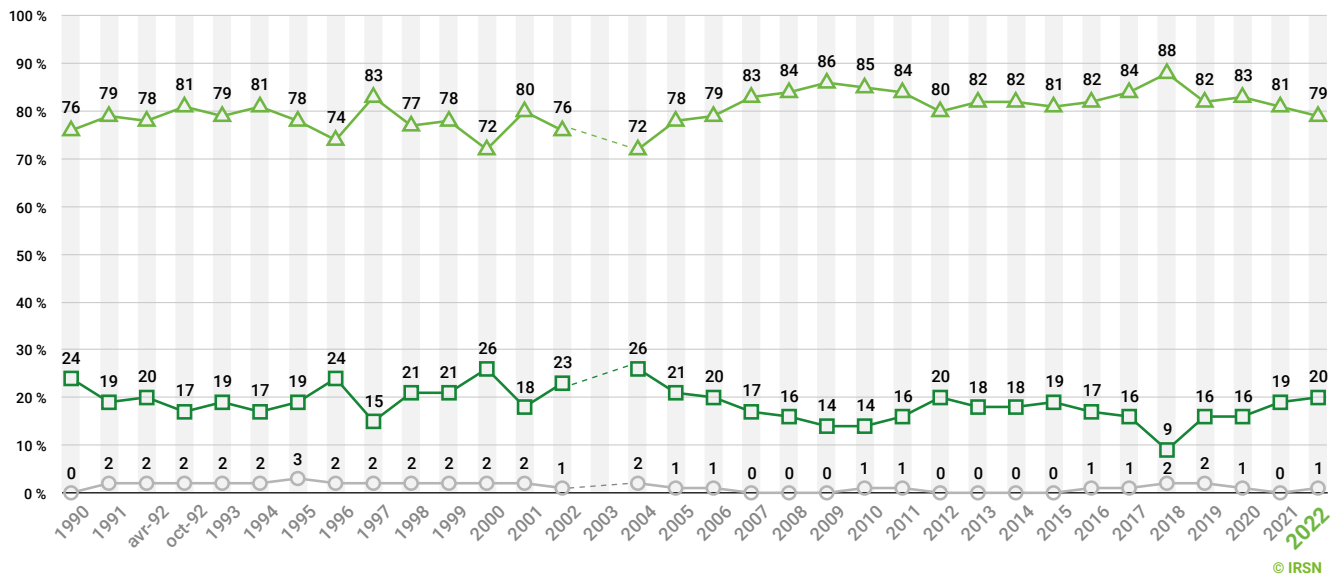


QUESTION No.5 (CONT.)

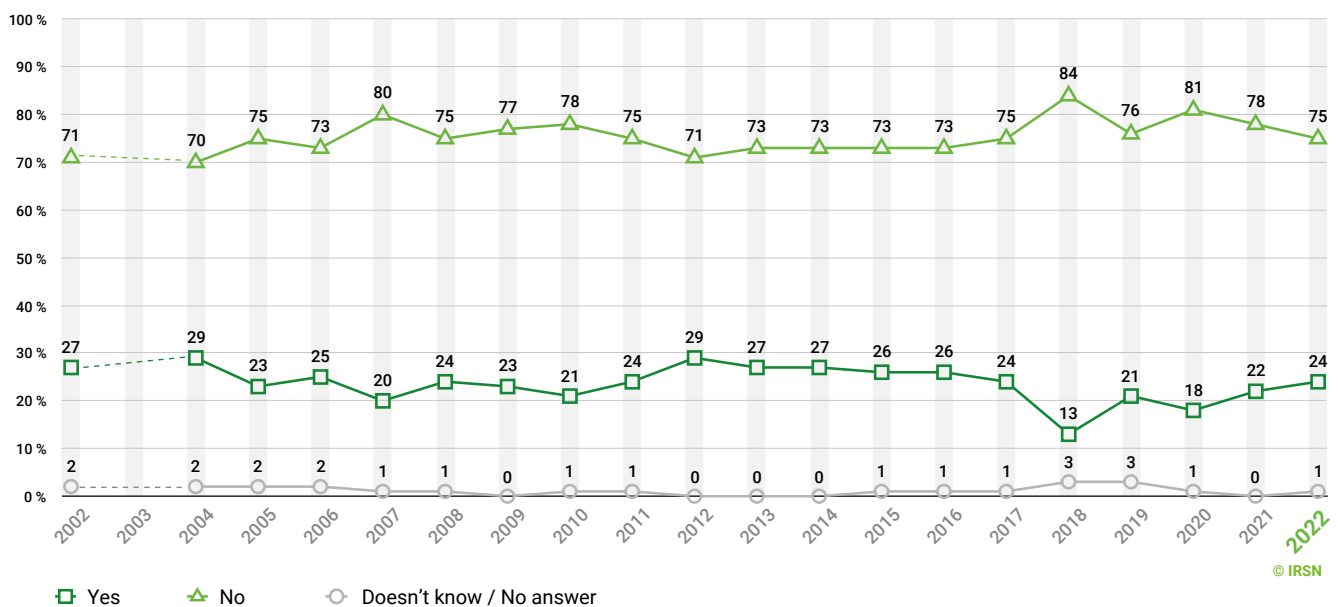
Would you be willing to live near...?

→ EVOLUTION OF THE RESULTS 1990-2022 (IN %)

3 - A nuclear power plant



4 - A nuclear research center



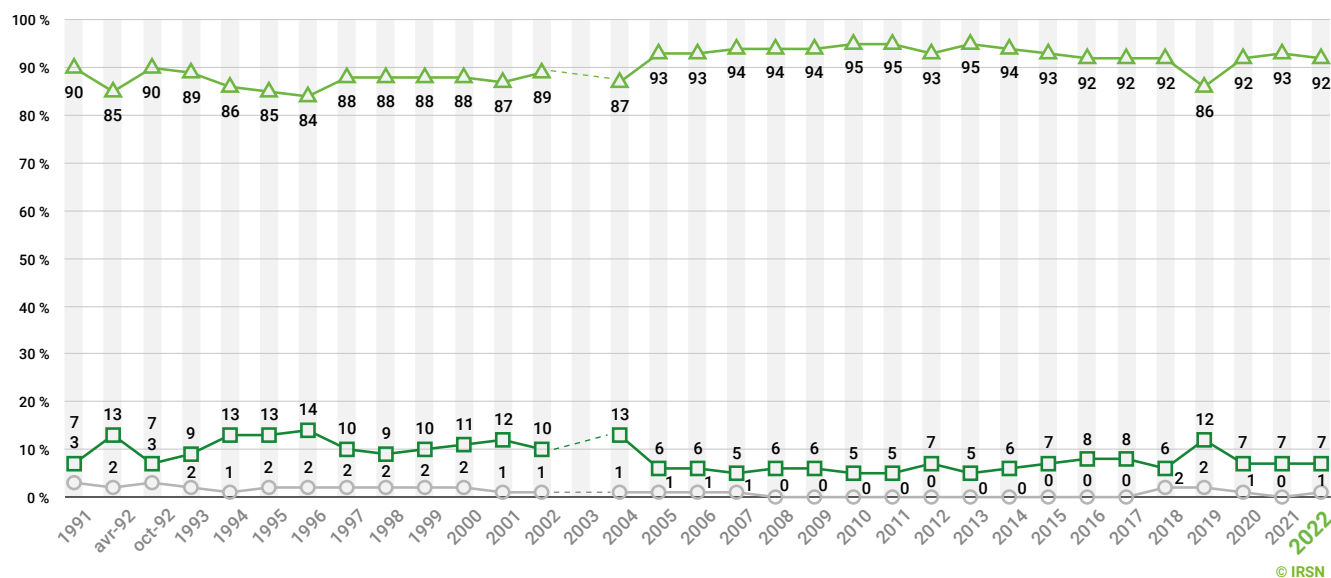
■ Yes
 ▲ No
 ○ Doesn't know / No answer

QUESTION No.5 (CONT.)

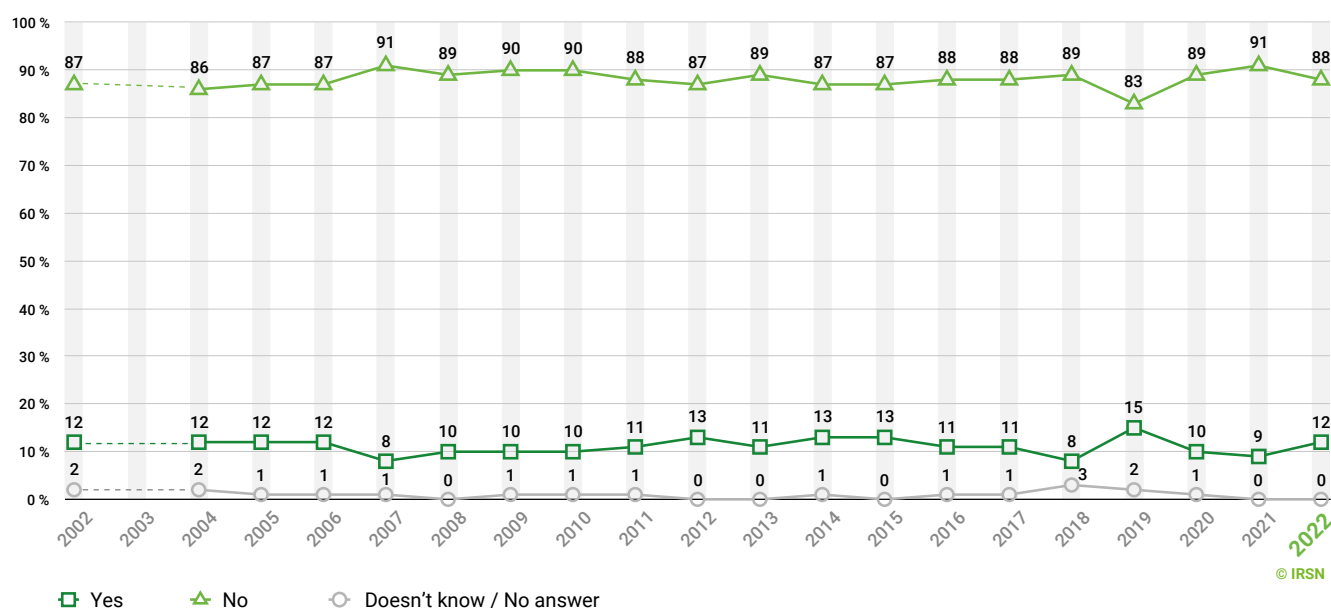
Would you be willing to live near...?

→ EVOLUTION OF THE RESULTS 1991-2022 (IN %)

5 - A landfill



6 - A household waste incinerator

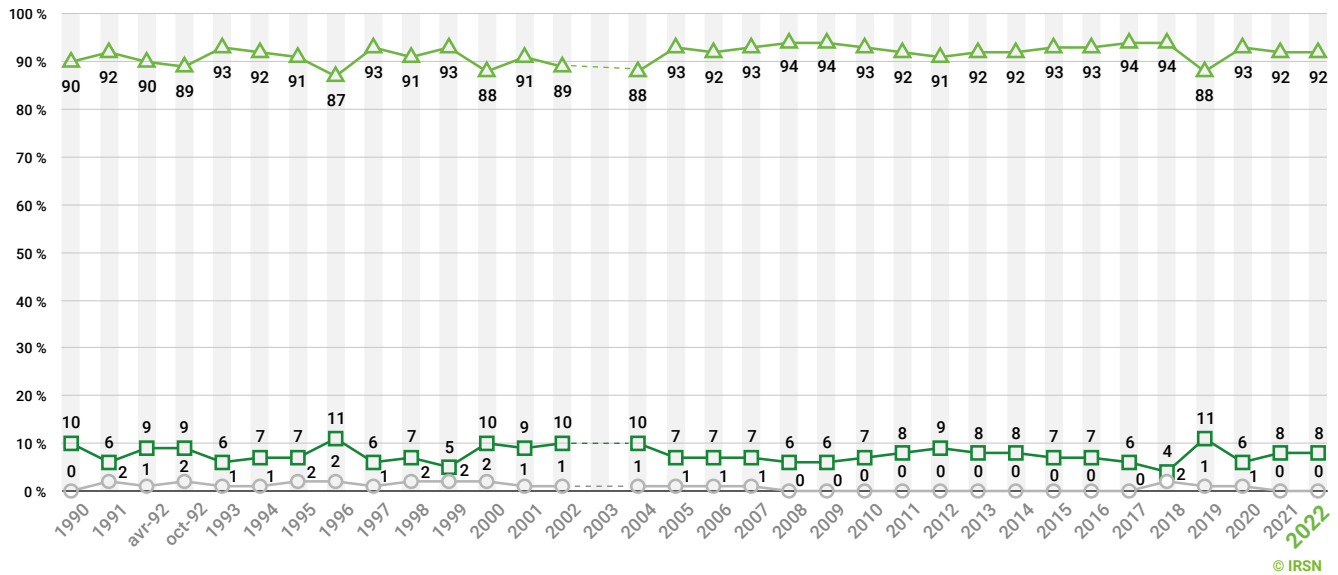


QUESTION No.5 (CONT.)

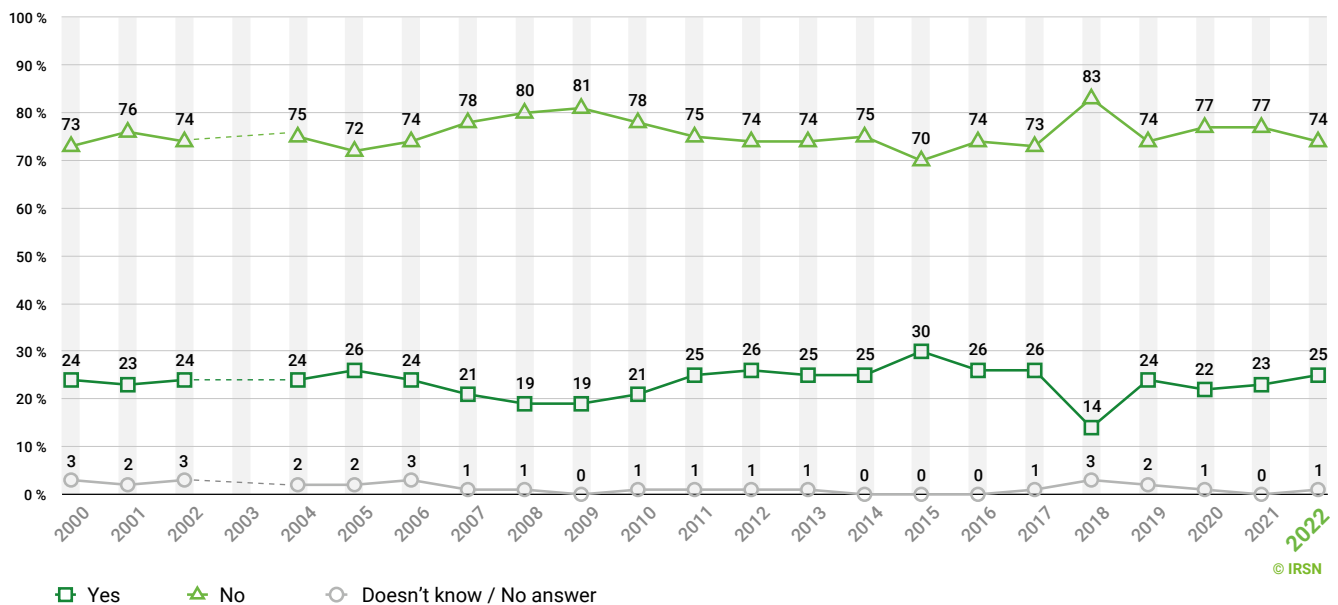
Would you be willing to live near...?

→ EVOLUTION OF THE RESULTS 1990-2022 (IN %)

7 - A major chemical facility



8 - High-voltage power lines

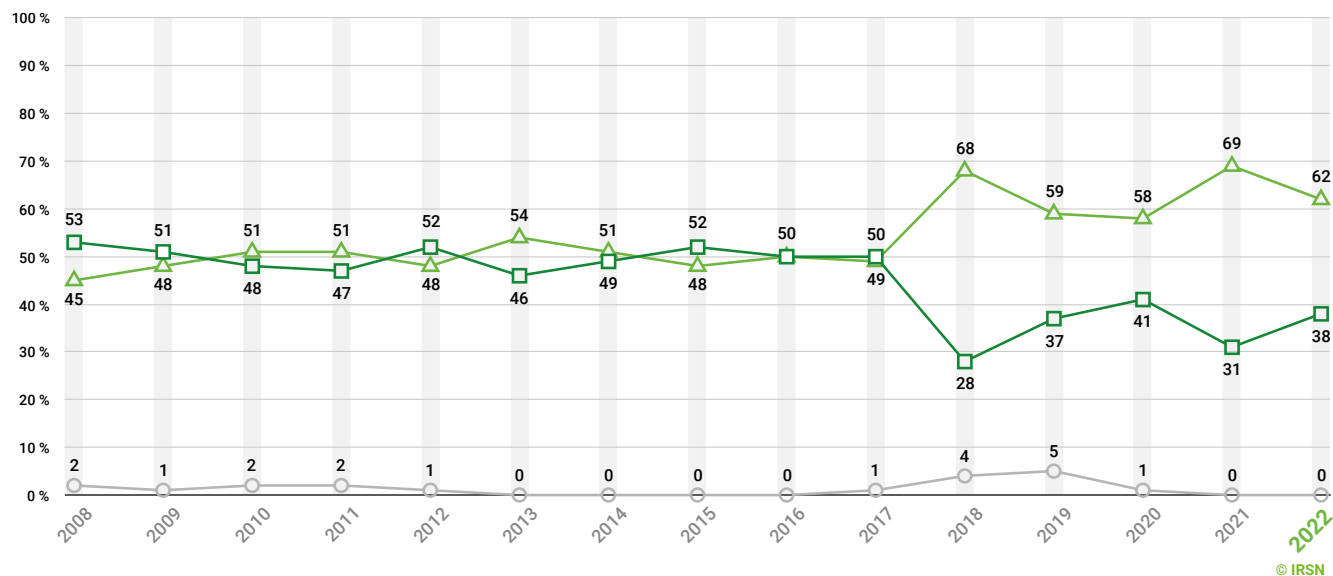


QUESTION No. 5 (CONT.)

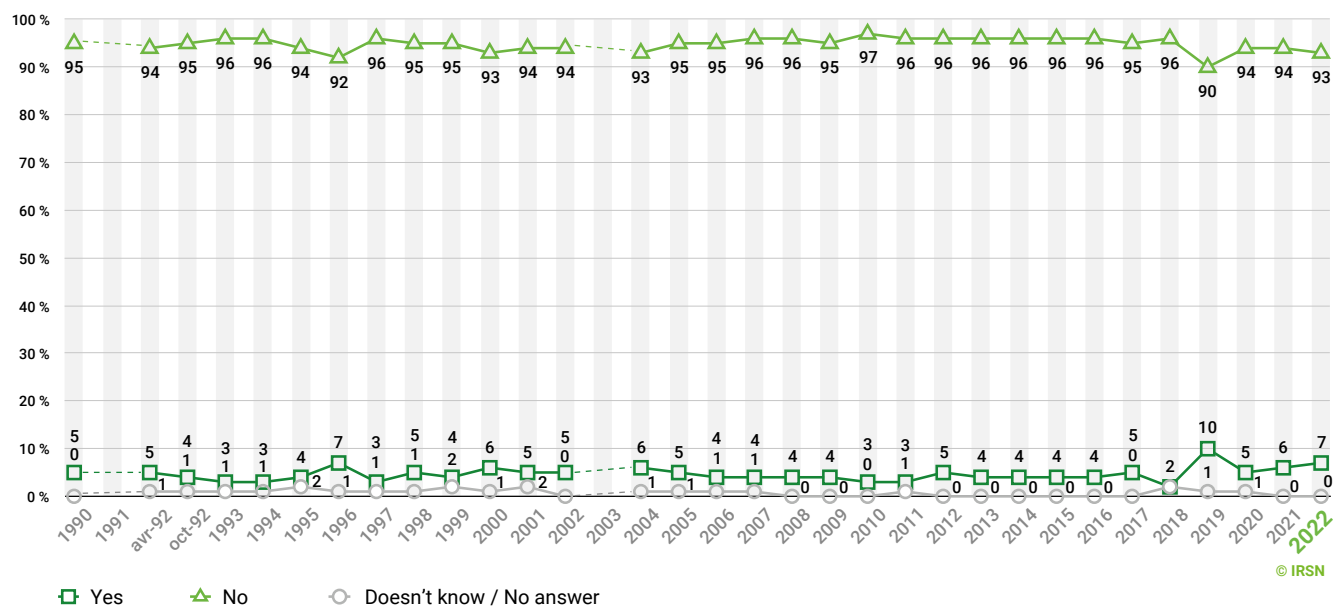
Would you be willing to live near...?

→ EVOLUTION OF THE RESULTS 1990-2022 (IN %)

9 - A wind farm



10 - A chemical waste disposal



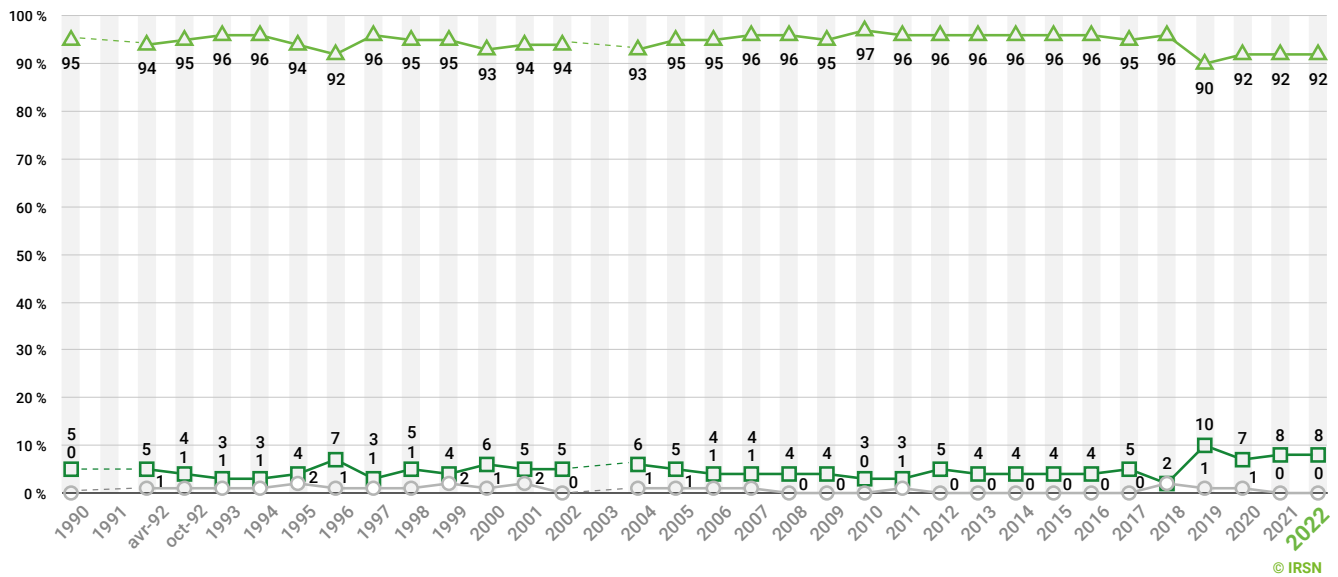
■ Yes
 ▲ No
 ● Doesn't know / No answer

QUESTION No.5 (CONT.)

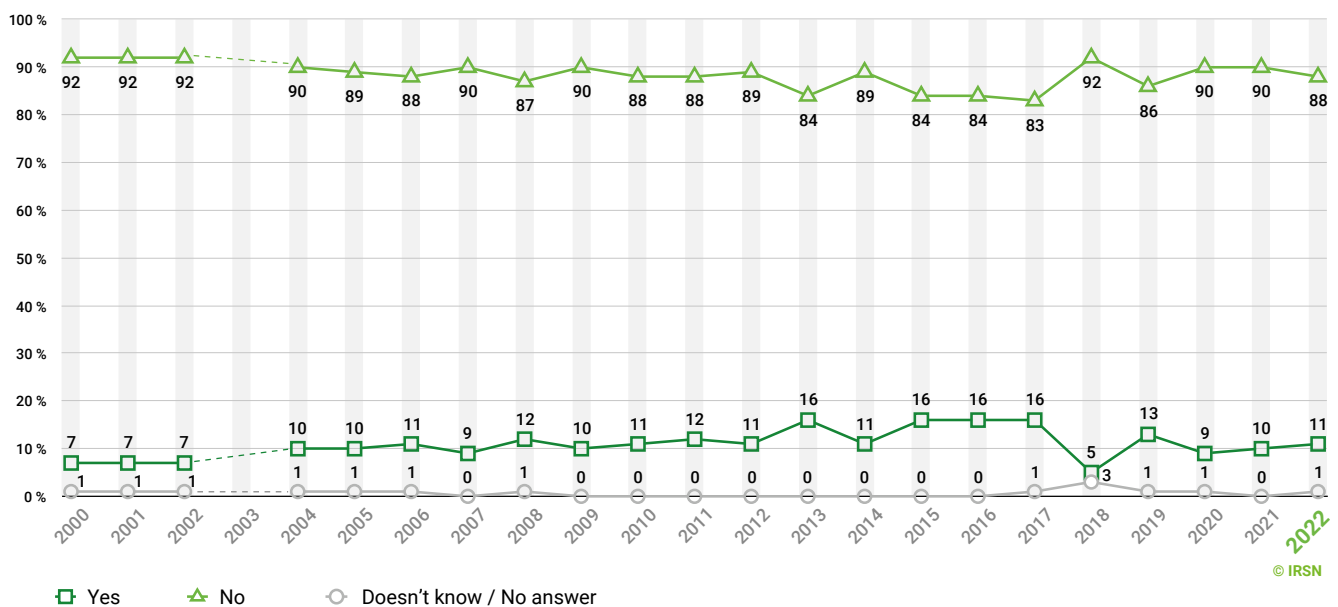
Would you be willing to live near...?

→ EVOLUTION OF THE RESULTS 1990-2022 (IN %)

11 - A radioactive waste disposal



12 - A flood zone



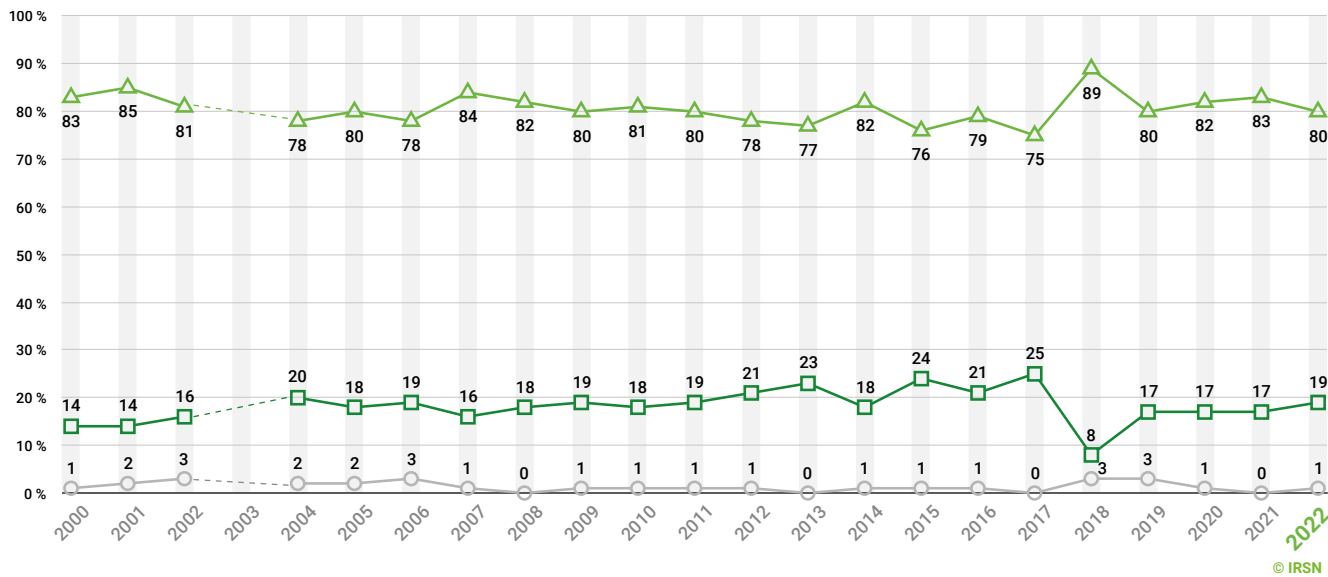
☒ Yes
 ☒ No
 ☐ Doesn't know / No answer

QUESTION
No.5
(CONT.)

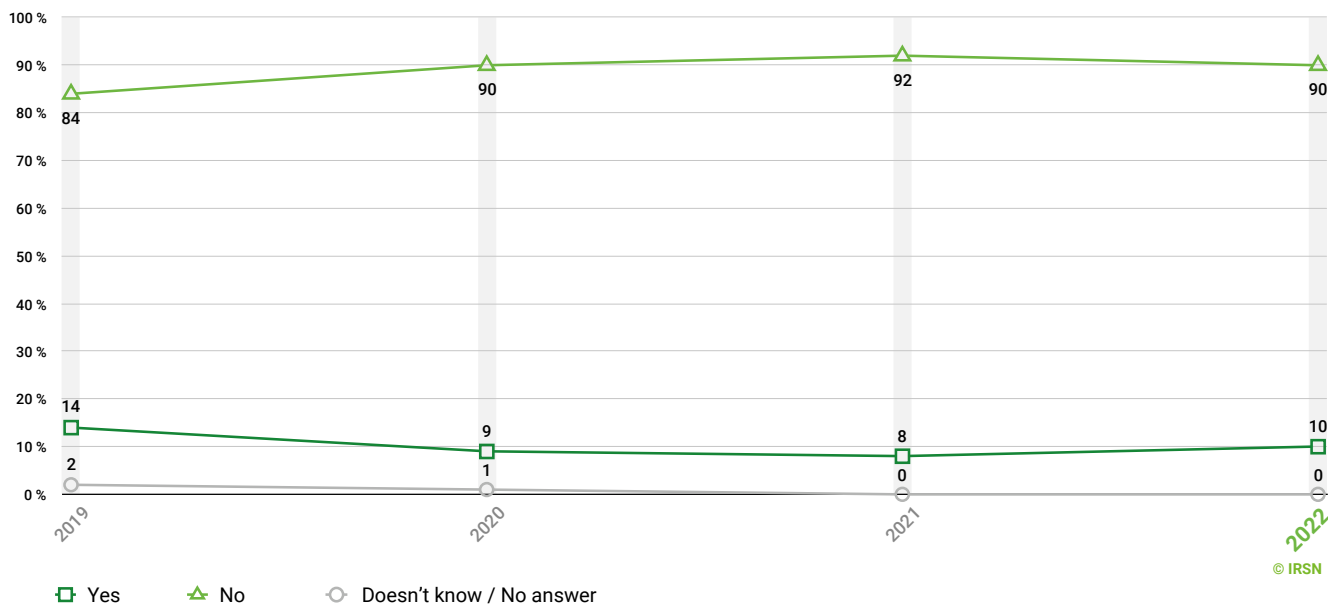
Would you be willing to live near...?

→ EVOLUTION OF THE RESULTS 2000-2022 (IN %)

13 - A seismic zone



14 - A marine submersion zone (temporary floods caused by the sea)

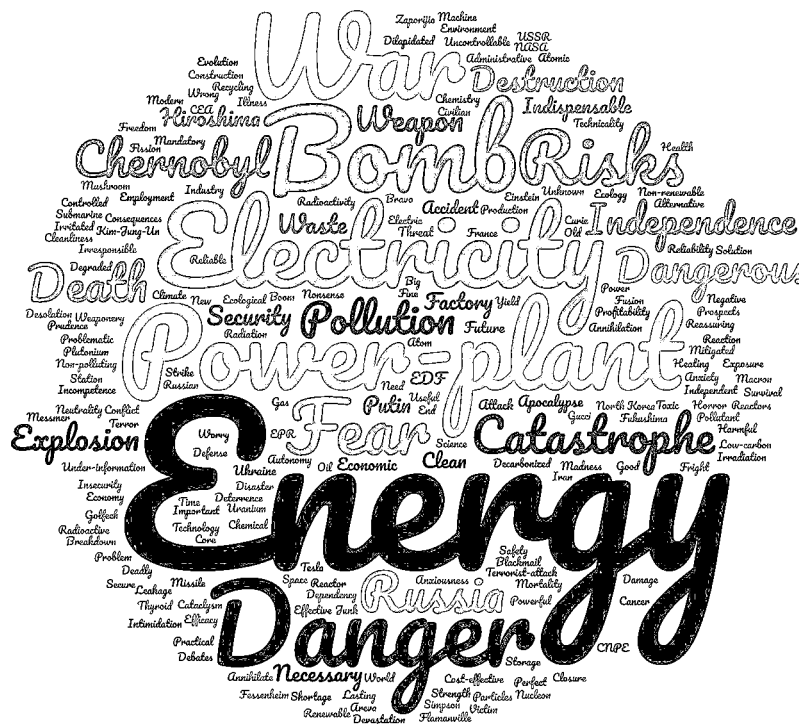


QUESTION No. 6

What is the first thing that comes to mind when you hear the word 'nuclear'? Please list the first five words that come to mind.

→ NOVEMBER 2022 (IN %)

1 – First word

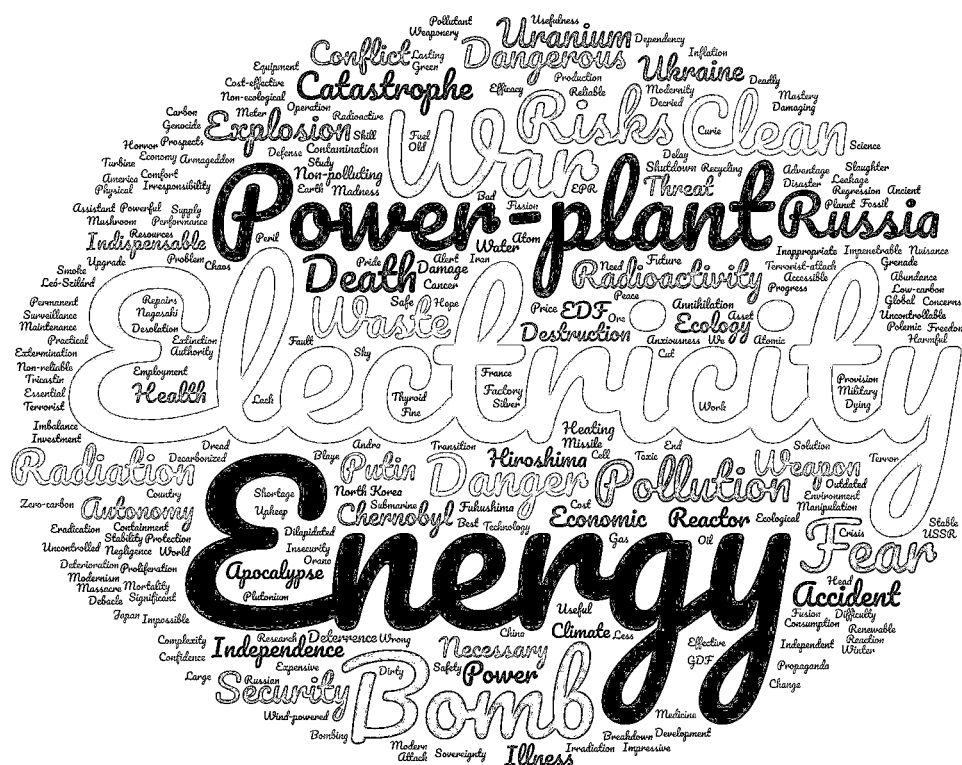


QUESTION No. 6 (CONT.)

What is the first thing that comes to mind when you hear the word 'nuclear'? Please list the first five words that come to mind.

→ NOVEMBER 2022 (IN %)

2 – Second word



→ NOVEMBER 2022 (IN %)

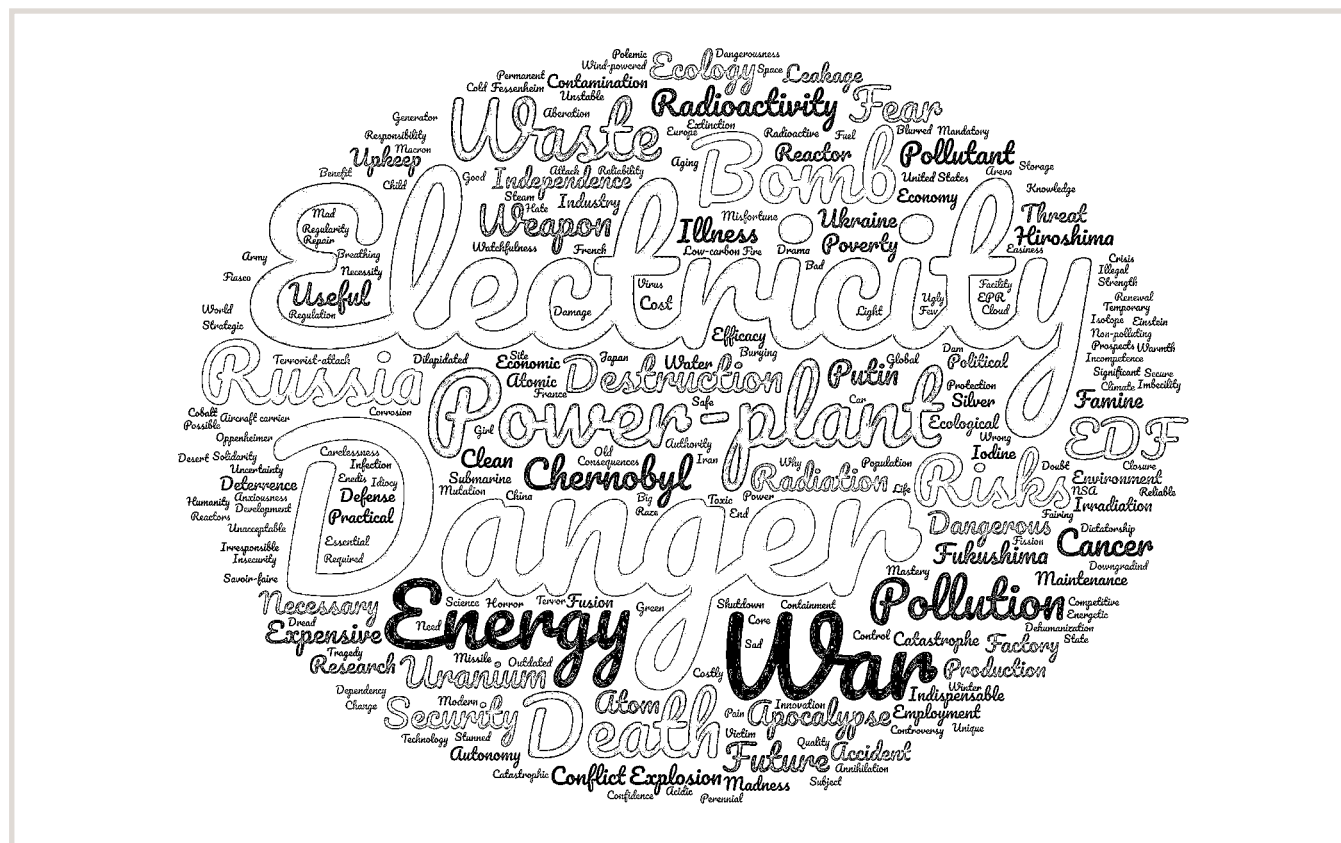
[illegible]

QUESTION
No. 6
(CONT.)

What is the first thing that comes to mind when you hear the word 'nuclear'? Please list the first five words that come to mind.

→ NOVEMBER 2022 (IN %)

4 – Fourth word

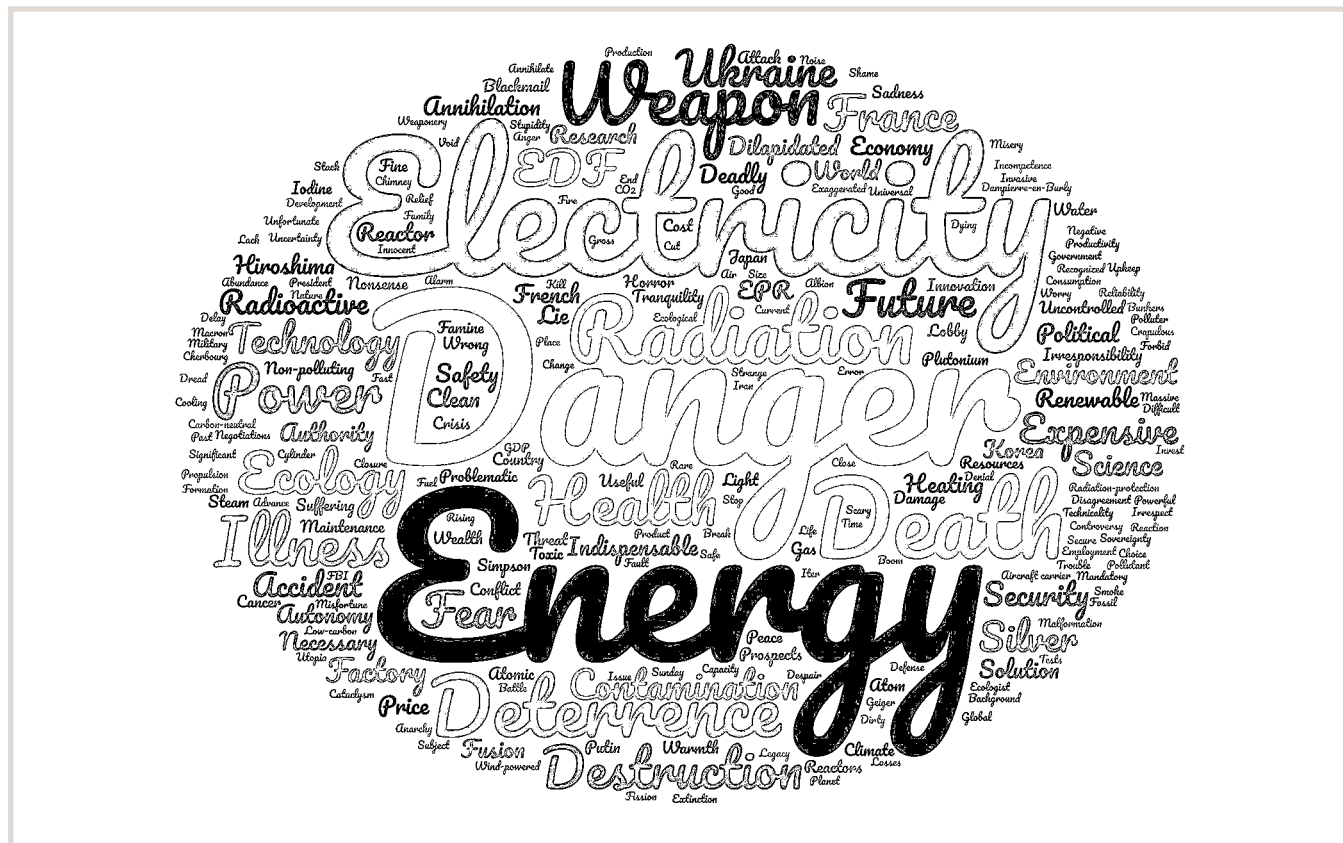


QUESTION
No. 6
(CONT.)

What is the first thing that comes to mind when you hear the word 'nuclear'? Please list the first five words that come to mind.

→ NOVEMBER 2022 (IN %)

5 – Fifth word

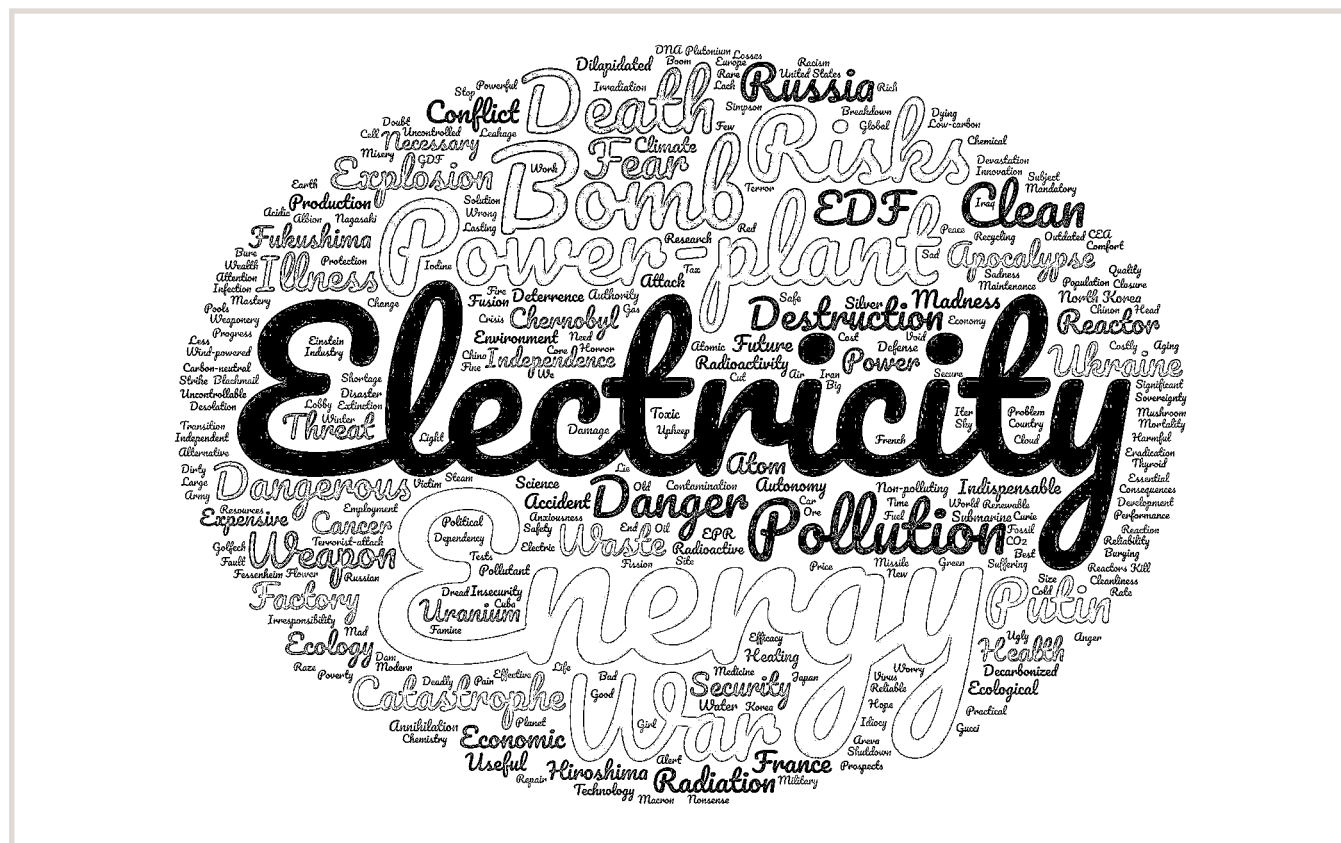


QUESTION
No. 6
(CONT.)

What is the first thing that comes to mind when you hear the word 'nuclear'? Please list the first five words that come to mind.

→ NOVEMBER 2022 (IN %)

6 – Total of all words mentioned





PART 4

THE OPINION OF THE FRENCH ON NUCLEAR MATTERS

118 – 125

French expectations regarding
nuclear safety

126 – 143

French people's views
on nuclear energy

144

The perception of nuclear waste
and its management

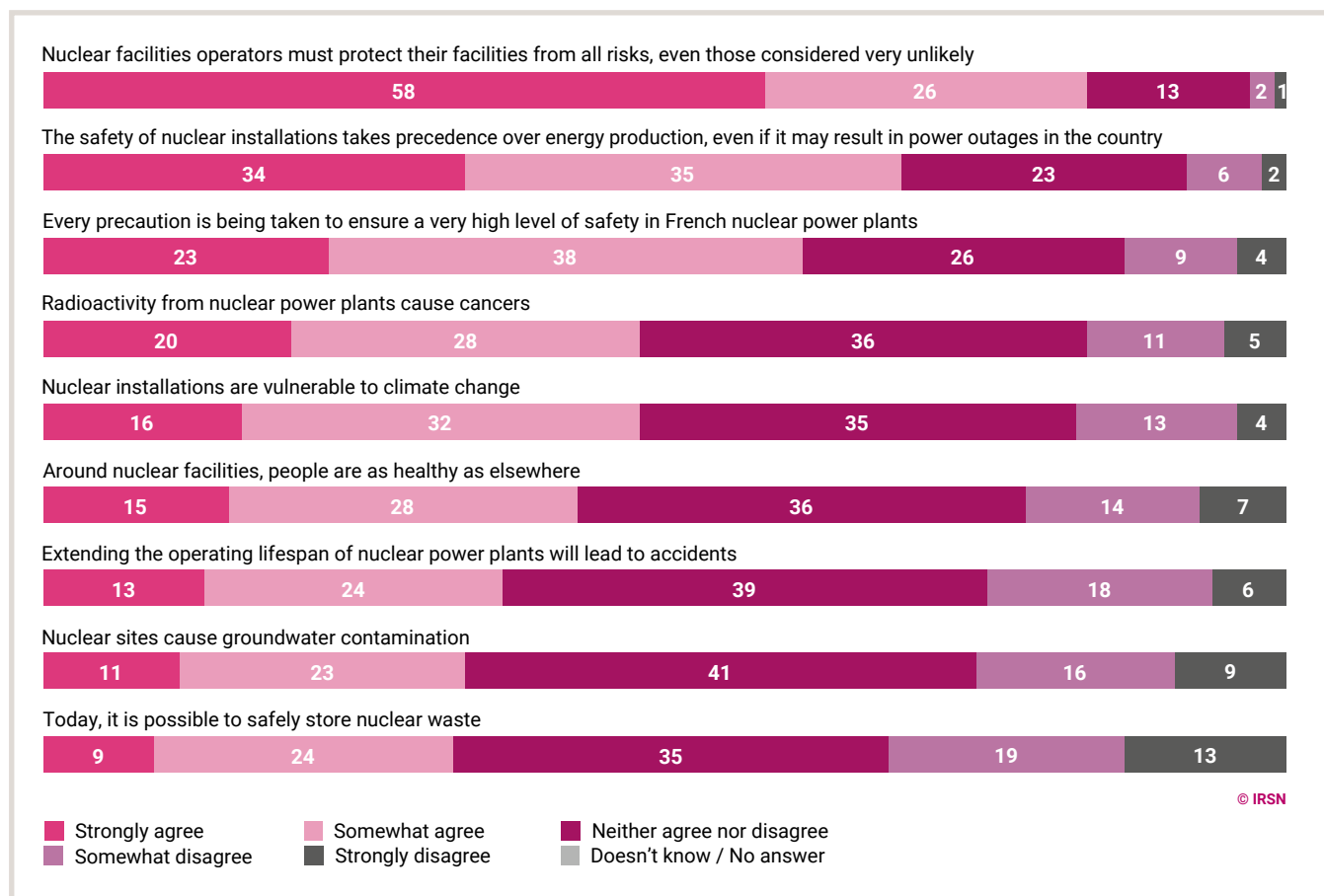
145 – 168

Competence and credibility
of nuclear stakeholders

QUESTION No.1

Here are a number of proposals relating to nuclear facilities.
Please indicate on the following scale whether you agree or disagree.

→ NOVEMBER 2022 (IN %)

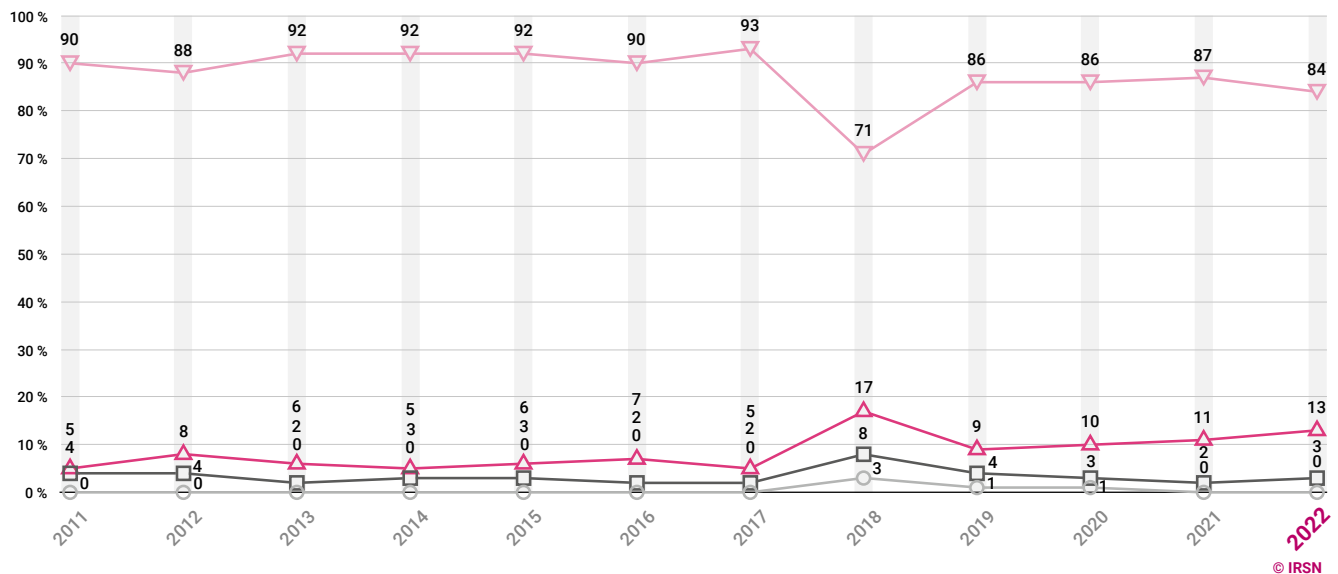


QUESTION No.1 (CONT.)

Here are a number of proposals relating to nuclear facilities.
Please indicate on the following scale whether you agree or disagree.

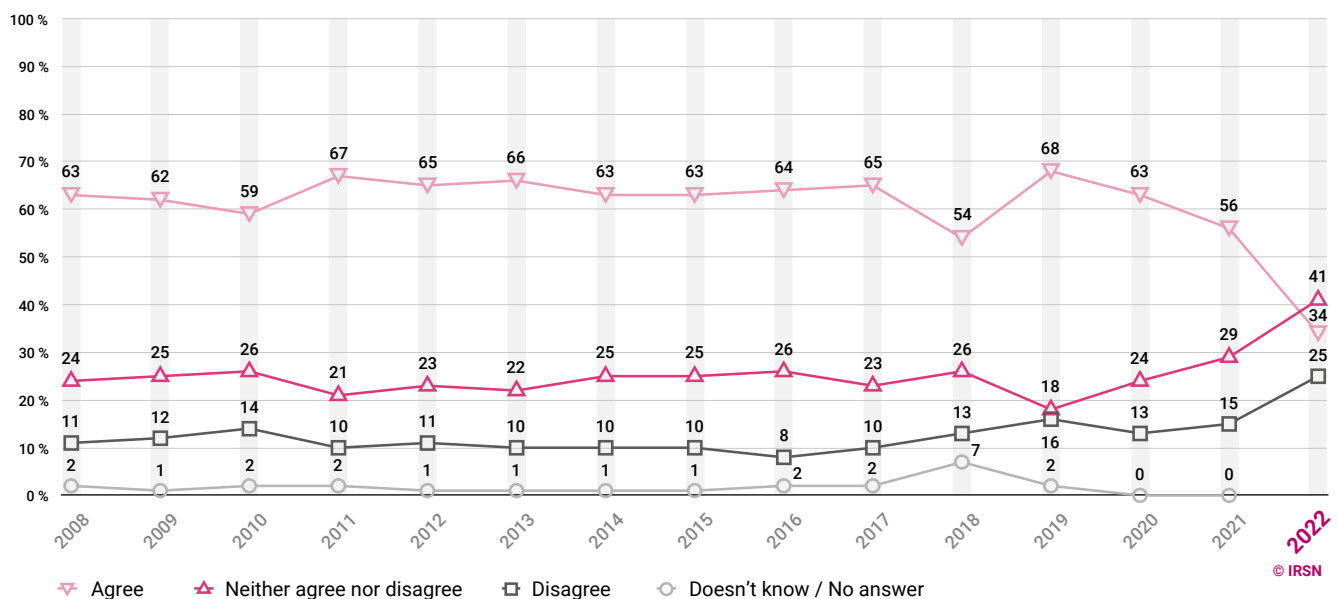
→ EVOLUTION OF THE RESULTS 2008-2022 (IN %)

1 - Nuclear facilities operators* must protect their facilities from all risks, even those considered very unlikely



* In 2019, the name "Nuclear facilities managers" became "Nuclear facilities operators".

2 - Nuclear sites can cause groundwater contamination*



* In 2022, the proposition "Nuclear sites can cause groundwater contamination" was replaced by "Nuclear sites cause groundwater contamination".

Starting from 2019, the response option "maybe agree" was replaced by "neither agree nor disagree." In 2022, the propositions "nuclear installations are vulnerable to climate change", "the safety of nuclear installations takes precedence over energy production, even if it may result in power outages in the country", and "extending the operating lifespan of nuclear power plants will lead to accidents" were added.

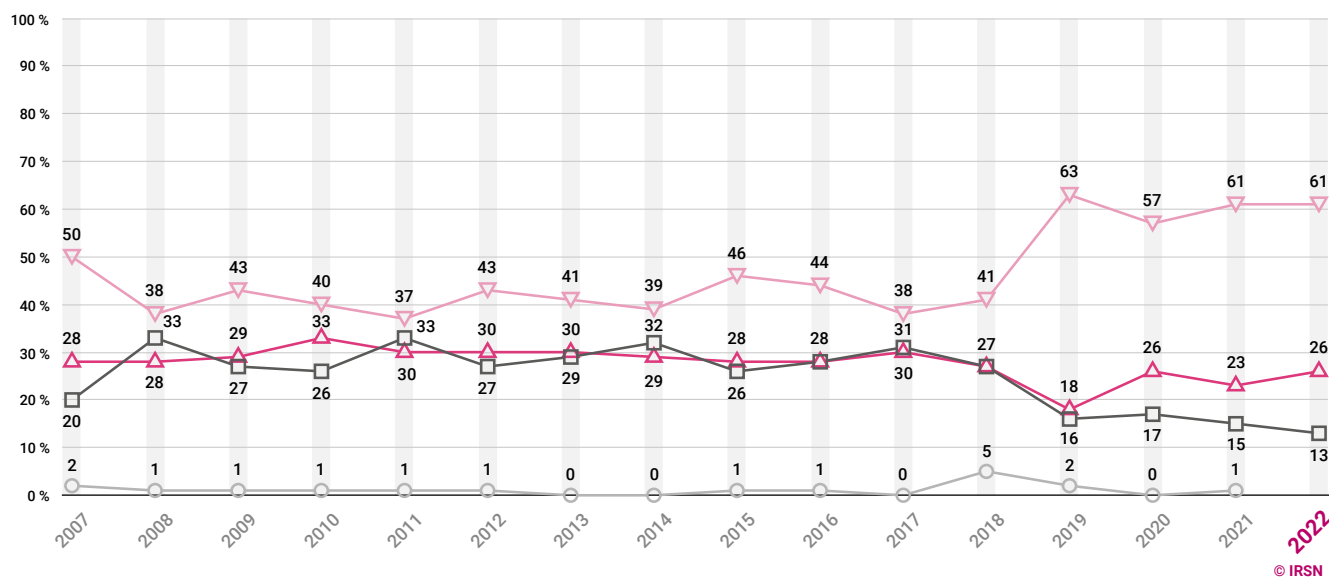
The answers "Strongly agree" and "Somewhat agree" were grouped into "Agree"; "Somewhat disagree" and "Strongly disagree" answers into "Disagree".

QUESTION No.1 (CONT.)

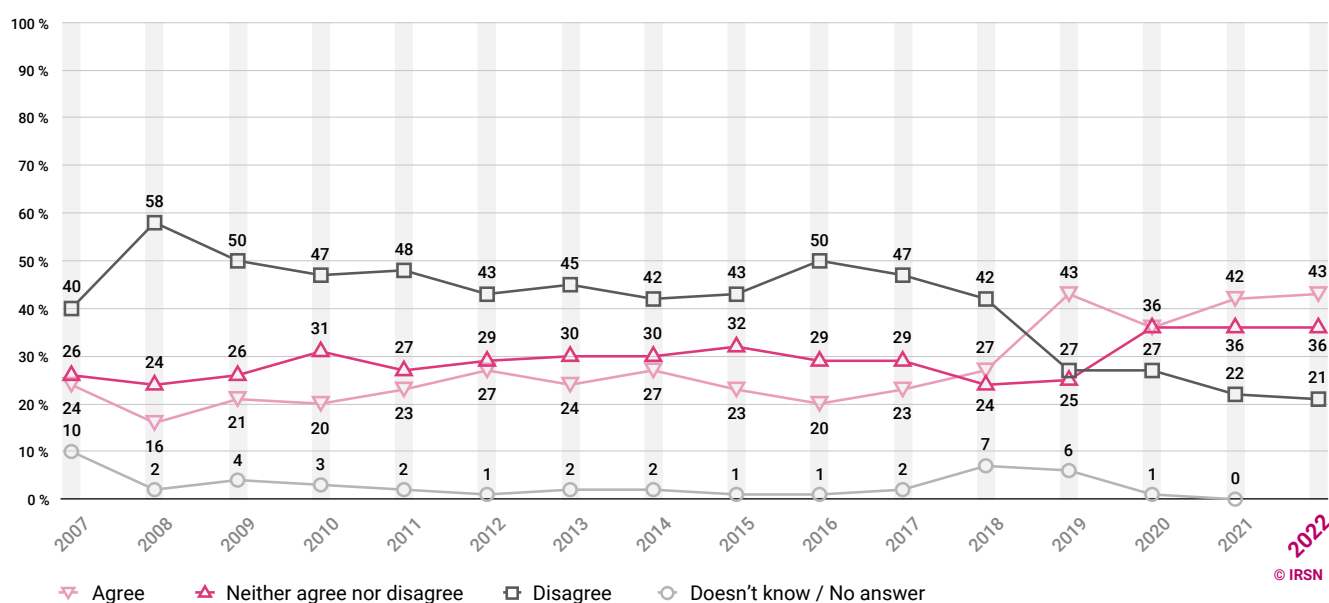
Here are a number of proposals relating to nuclear facilities.
Please indicate on the following scale whether you agree or disagree.

→ EVOLUTION OF THE RESULTS 2007-2022 (IN %)

3 - Every precaution is being taken to ensure a very high level of safety in French nuclear power plants



4 - Around nuclear facilities, people are as healthy as elsewhere



Starting from 2019, the response option "maybe agree" was replaced by "neither agree nor disagree." In 2022, the propositions "nuclear installations are vulnerable to climate change", "the safety of nuclear installations takes precedence over energy production, even if it may result in power outages in the country", and "extending the operating lifespan of nuclear power plants will lead to accidents" were added.

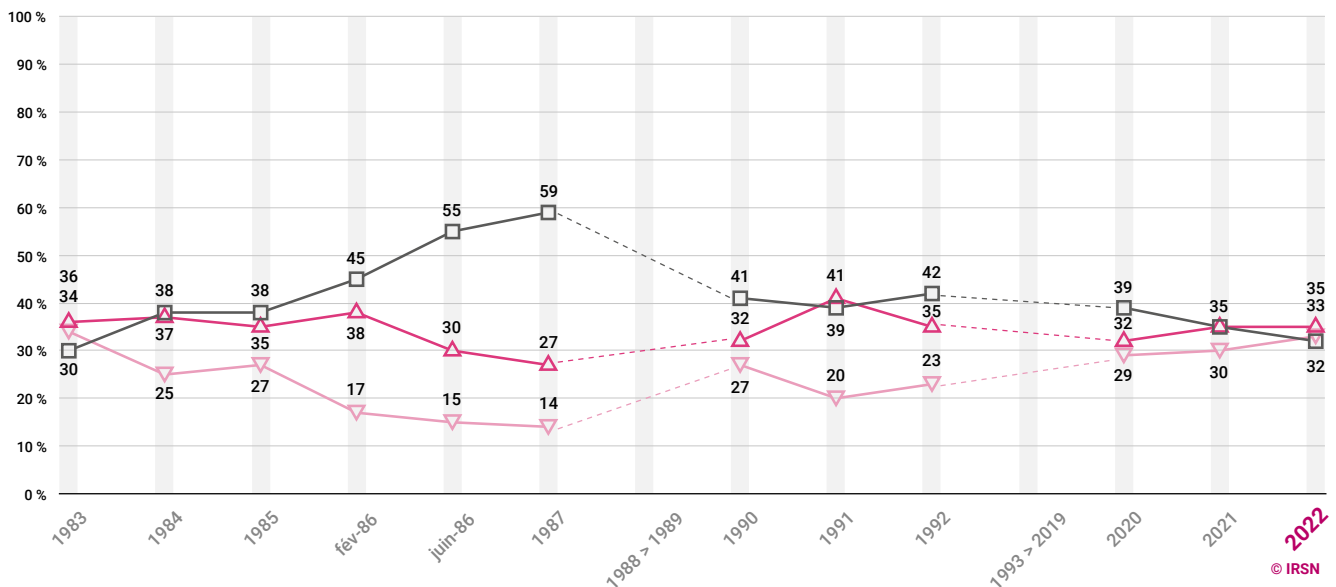
The answers "Strongly agree" and "Somewhat agree" were grouped into "Agree"; "Somewhat disagree" and "Strongly disagree" answers into "Disagree".

QUESTION No.1 (CONT.)

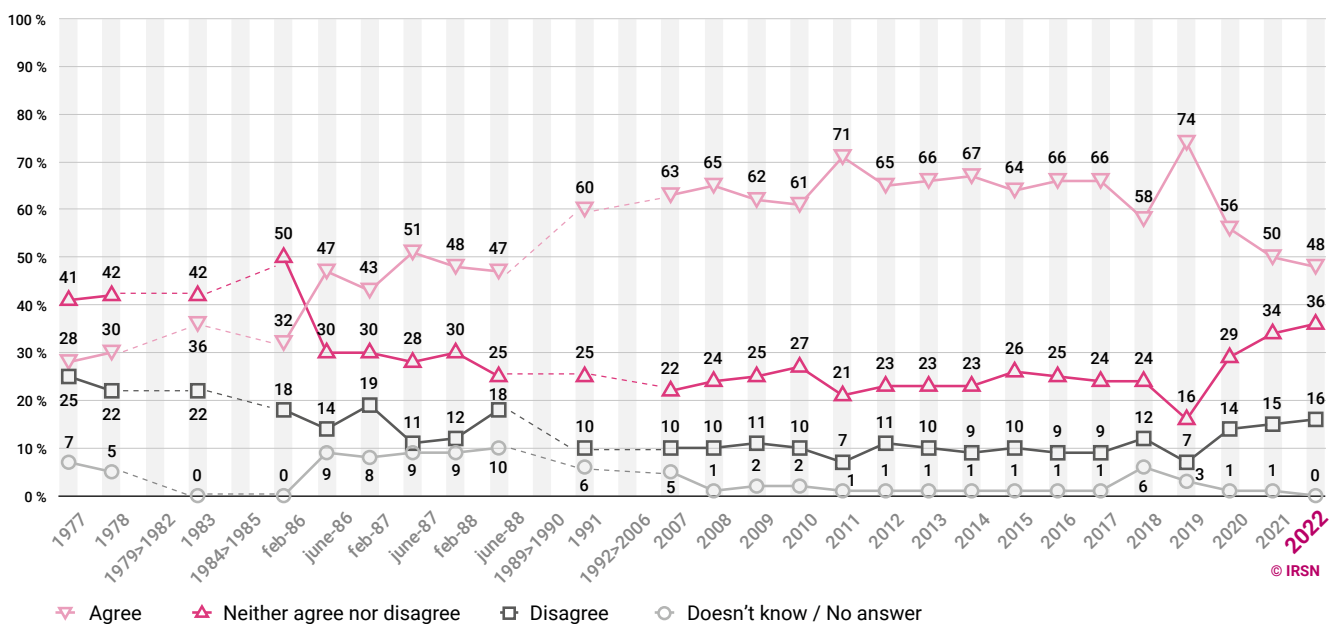
Here are a number of proposals relating to nuclear facilities.
Please indicate on the following scale whether you agree or disagree.

→ EVOLUTION OF THE RESULTS 1977-2022 (IN %)

5 - Today, it is possible to safely store nuclear waste



6 - Radioactivity from nuclear power plants will cause cancers*



* In 2019 and for this year only, the proposal became "Radioactivity from nuclear power plants can cause cancer". In 2022, the proposition "radioactivity from nuclear power plants cause cancers" was replaced by "radioactivity from nuclear power plants will cause cancers".

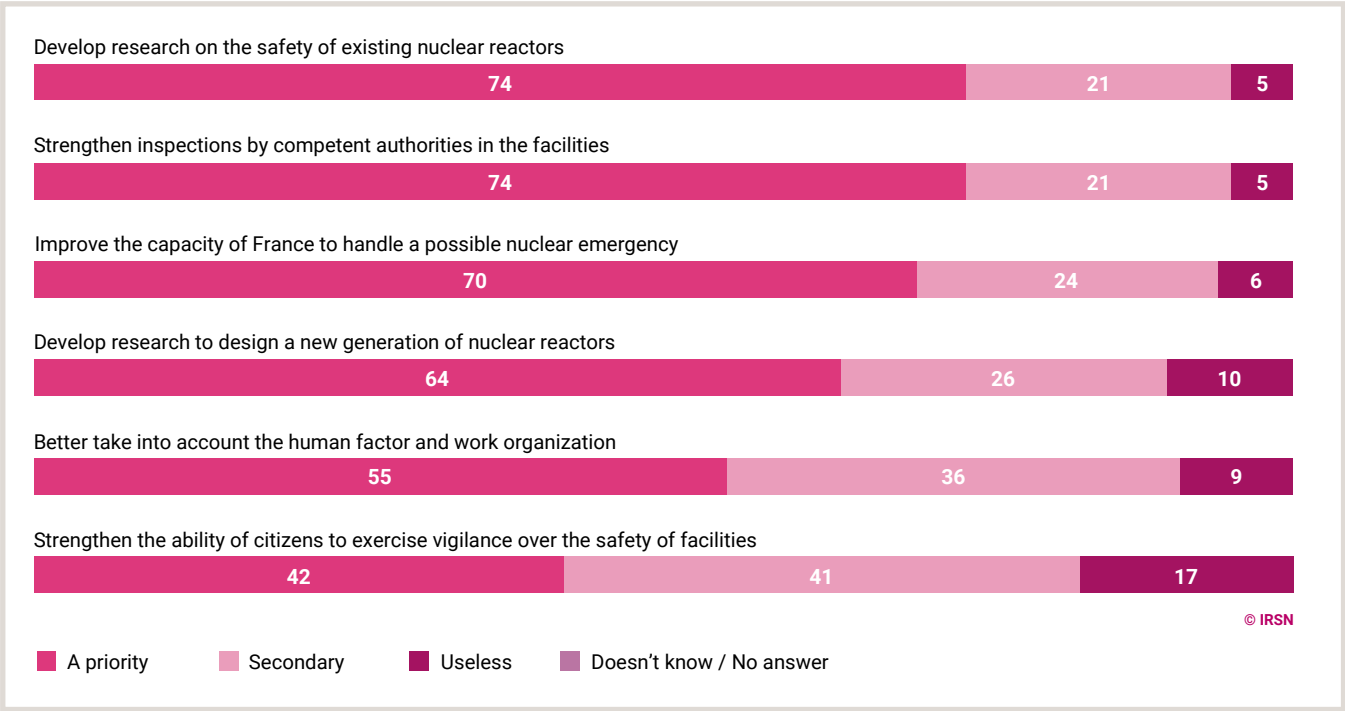
Starting from 2019, the response option "maybe agree" was replaced by "neither agree nor disagree." In 2022, the propositions "nuclear installations are vulnerable to climate change", "the safety of nuclear installations takes precedence over energy production, even if it may result in power outages in the country", and "extending the operating lifespan of nuclear power plants will lead to accidents" were added.

The answers "Strongly agree" and "Somewhat agree" were grouped into "Agree"; "Somewhat disagree" and "Strongly disagree" answers into "Disagree".

QUESTION
No.2

Here are various measures to strengthen the safety of nuclear sites.
For each one, please indicate whether you consider it to be a priority,
secondary or useless to strengthen the safety of nuclear sites.

→ NOVEMBER 2022 (IN %)

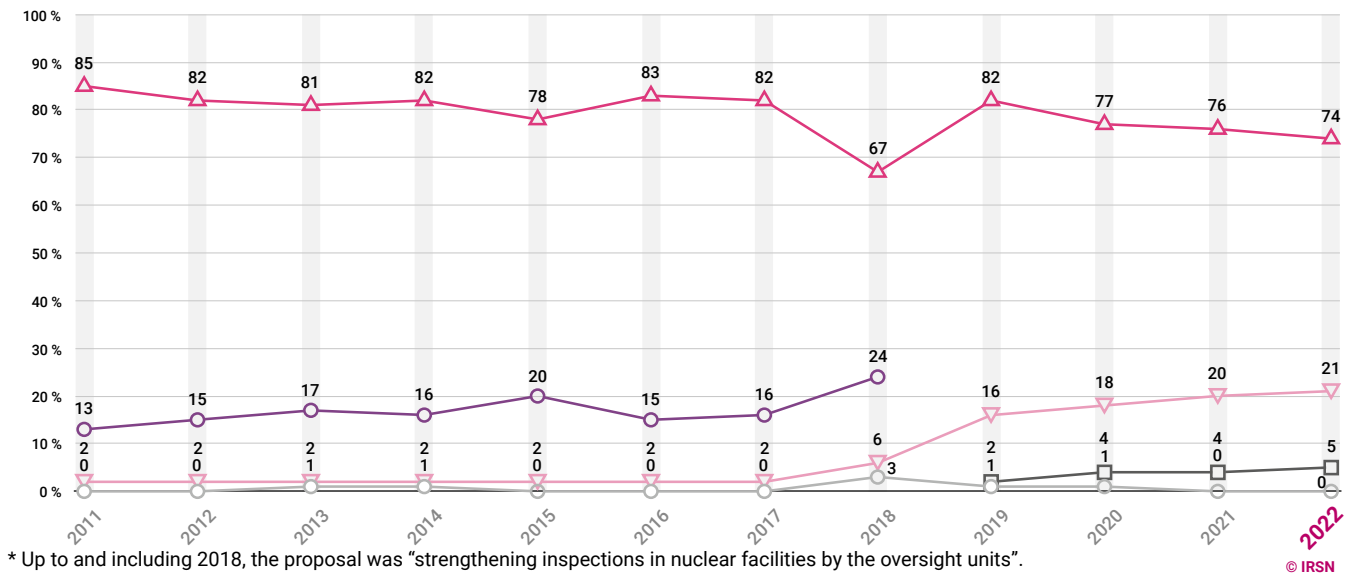


QUESTION No. 2 (CONT.)

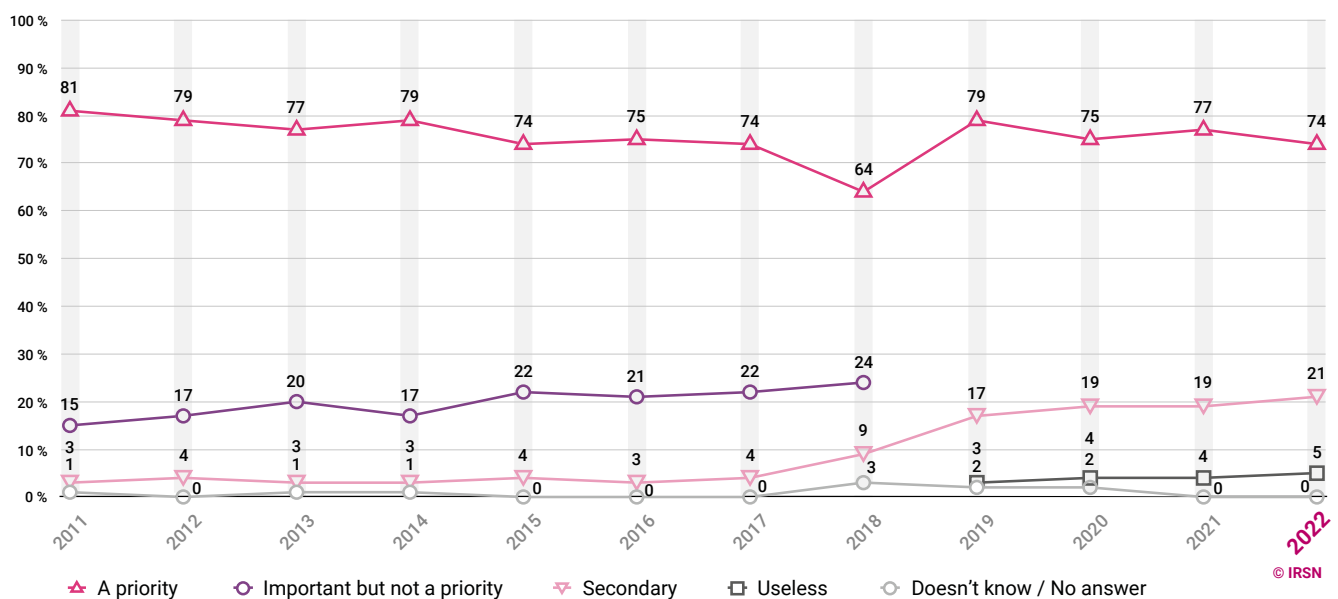
Here are various measures to strengthen the safety of nuclear sites. For each one, please indicate whether you consider it to be a priority, secondary or useless to strengthen the safety of nuclear sites.

→ EVOLUTION OF THE RESULTS 2011-2022 (IN %)

1 - Strengthen inspections by competent authorities in the facilities*



2 - Develop research on the safety of existing nuclear reactors



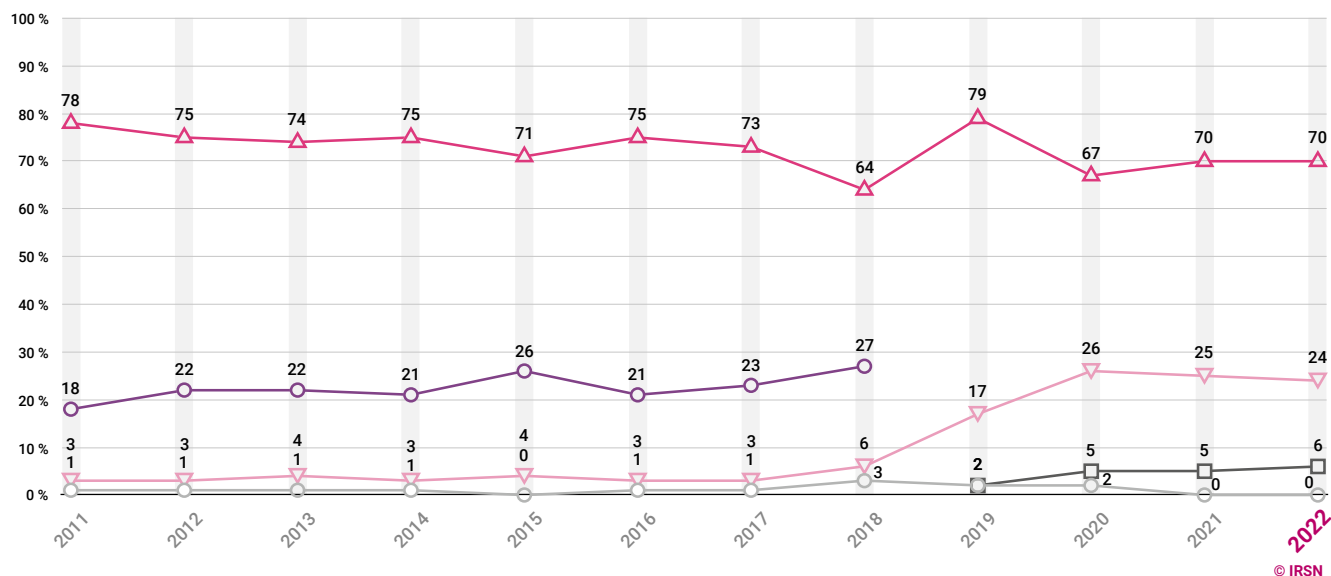
In 2019, the answer "Important but not a priority" was removed and the answer "Useless" was added.

QUESTION No. 2 (CONT.)

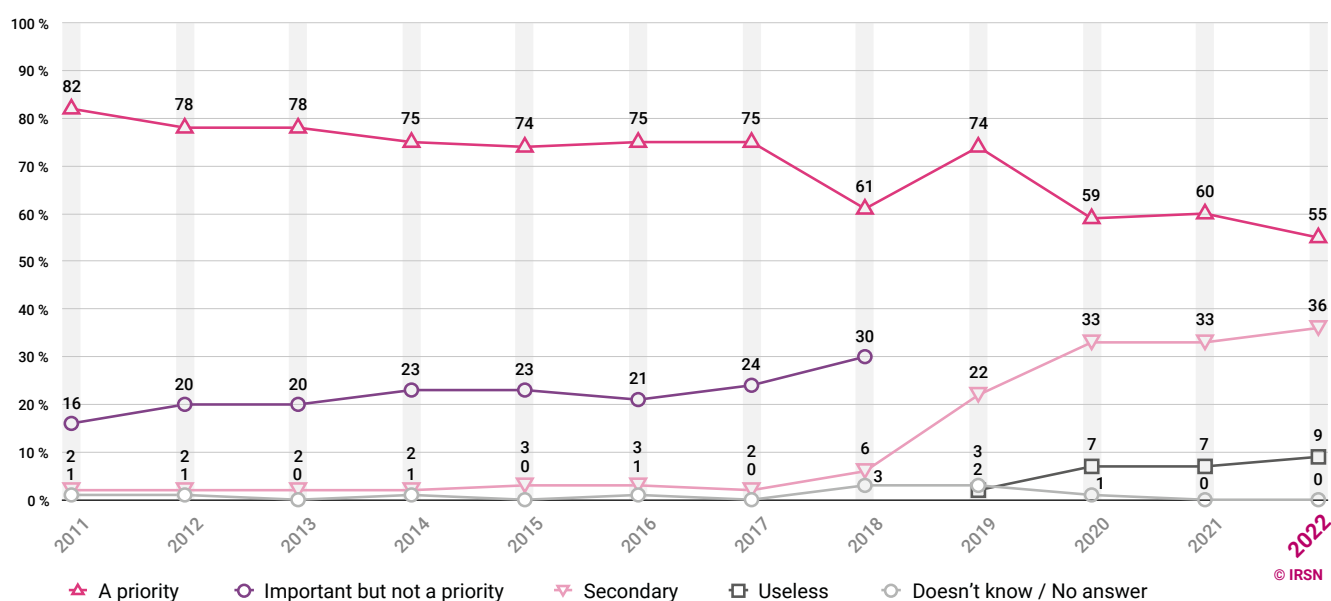
Here are various measures to strengthen the safety of nuclear sites. For each one, please indicate whether you consider it to be a priority, secondary or useless to strengthen the safety of nuclear sites.

→ EVOLUTION OF THE RESULTS 2011-2022 (IN %)

3 - Improve the capacity of France to handle a possible nuclear emergency



4 - Better consider the human factor and work organization*



* Up to and including 2018, the proposal was "improve the safety of installations by taking greater account of the human factor and work organization".

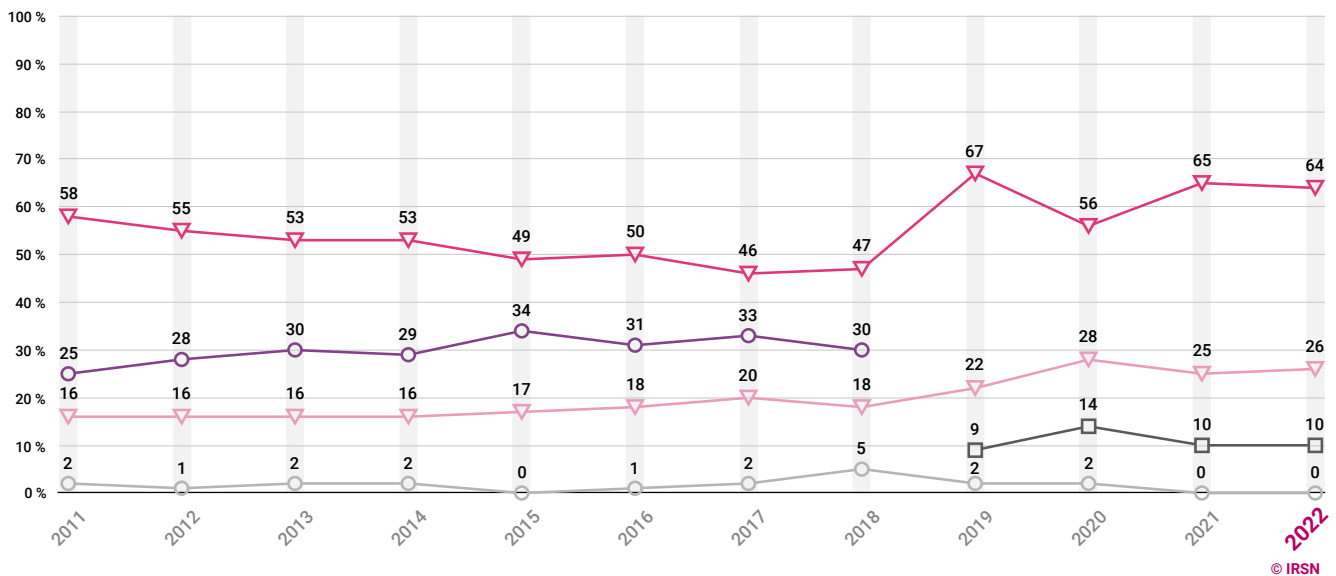
In 2019, the answer "Important but not a priority" was removed and the answer "Useless" was added.

QUESTION No. 2 (CONT.)

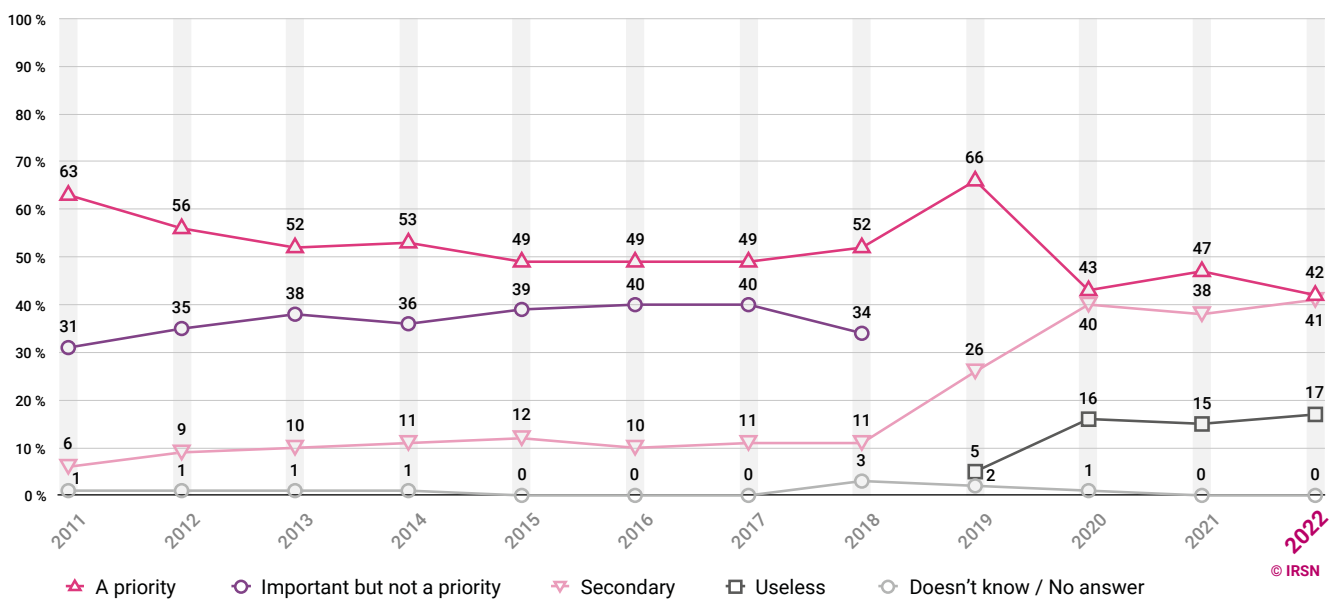
Here are various measures to strengthen the safety of nuclear sites. For each one, please indicate whether you consider it to be a priority, secondary or useless to strengthen the safety of nuclear sites.

→ EVOLUTION OF THE RESULTS 2011-2022 (IN %)

5 - Develop research to design a new generation of nuclear reactors



6 - Strengthen the ability of citizens to exercise vigilance over the safety of facilities*



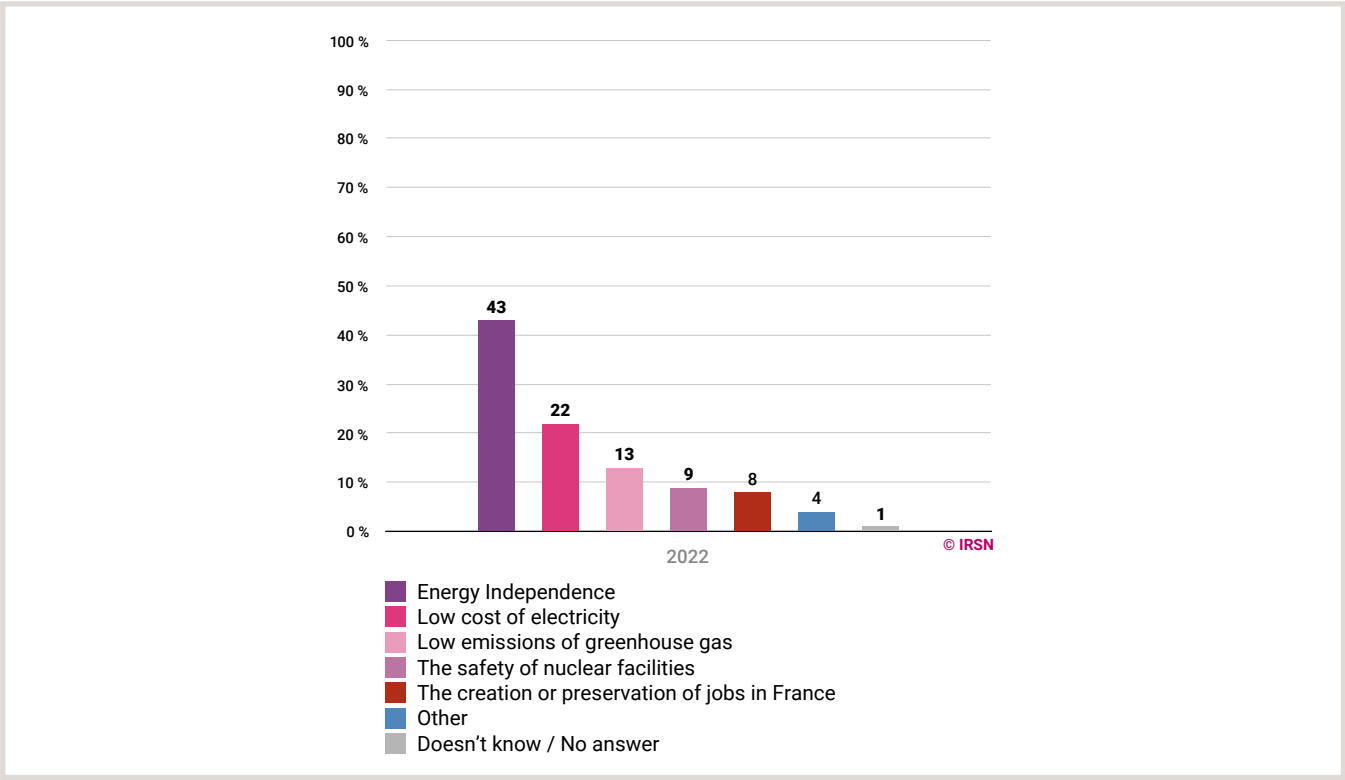
* Up to and including 2018, the proposal was "Strengthen the means for citizens' vigilance and participation".

In 2019, the answer "Important but not a priority" was removed and the answer "Useless" was added.

QUESTION
No. 3

What do you think is the strongest argument
for nuclear power today?

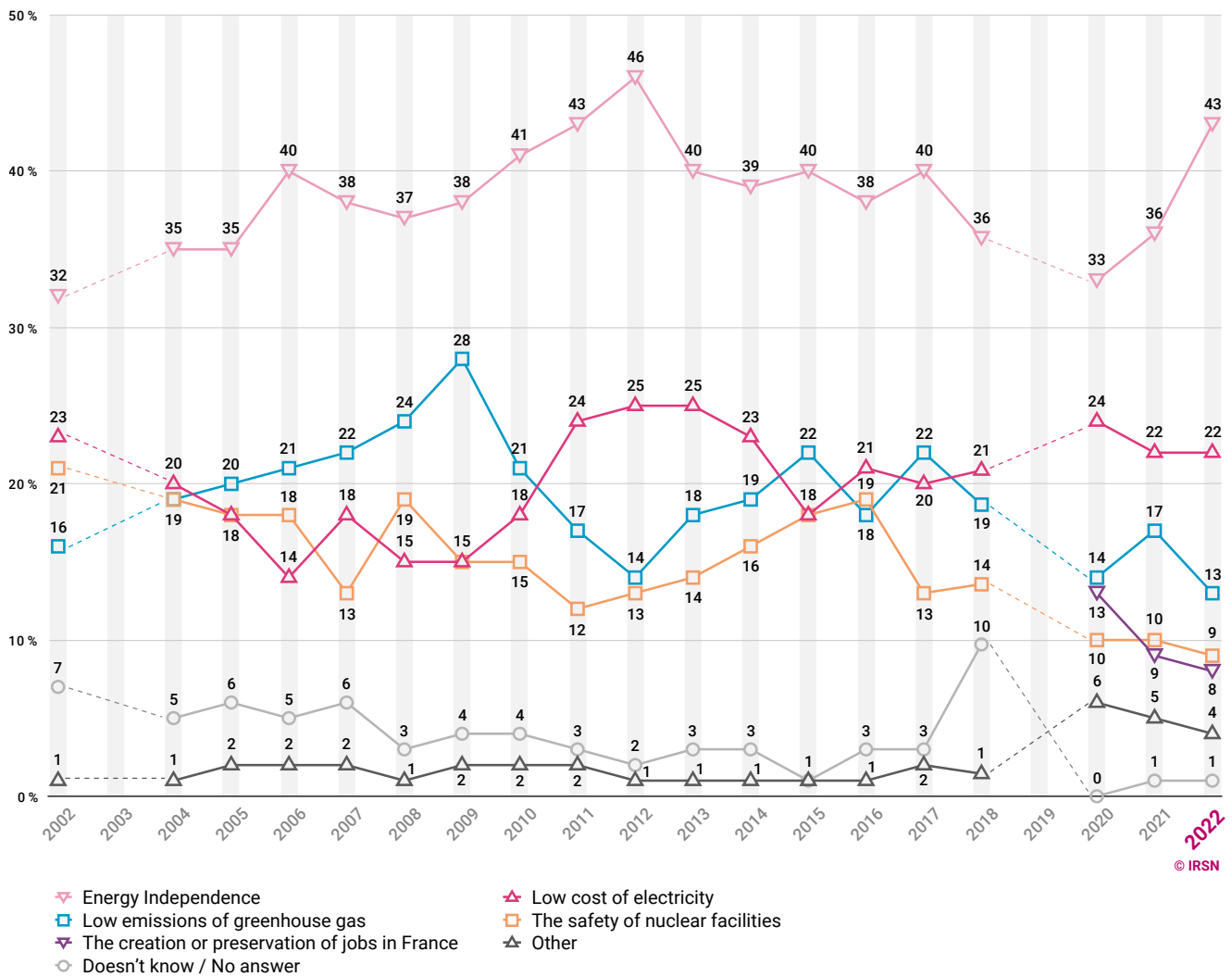
→ NOVEMBER 2022 (IN %)



QUESTION No. 3 (CONT.)

What do you think is the strongest argument
for nuclear power today?

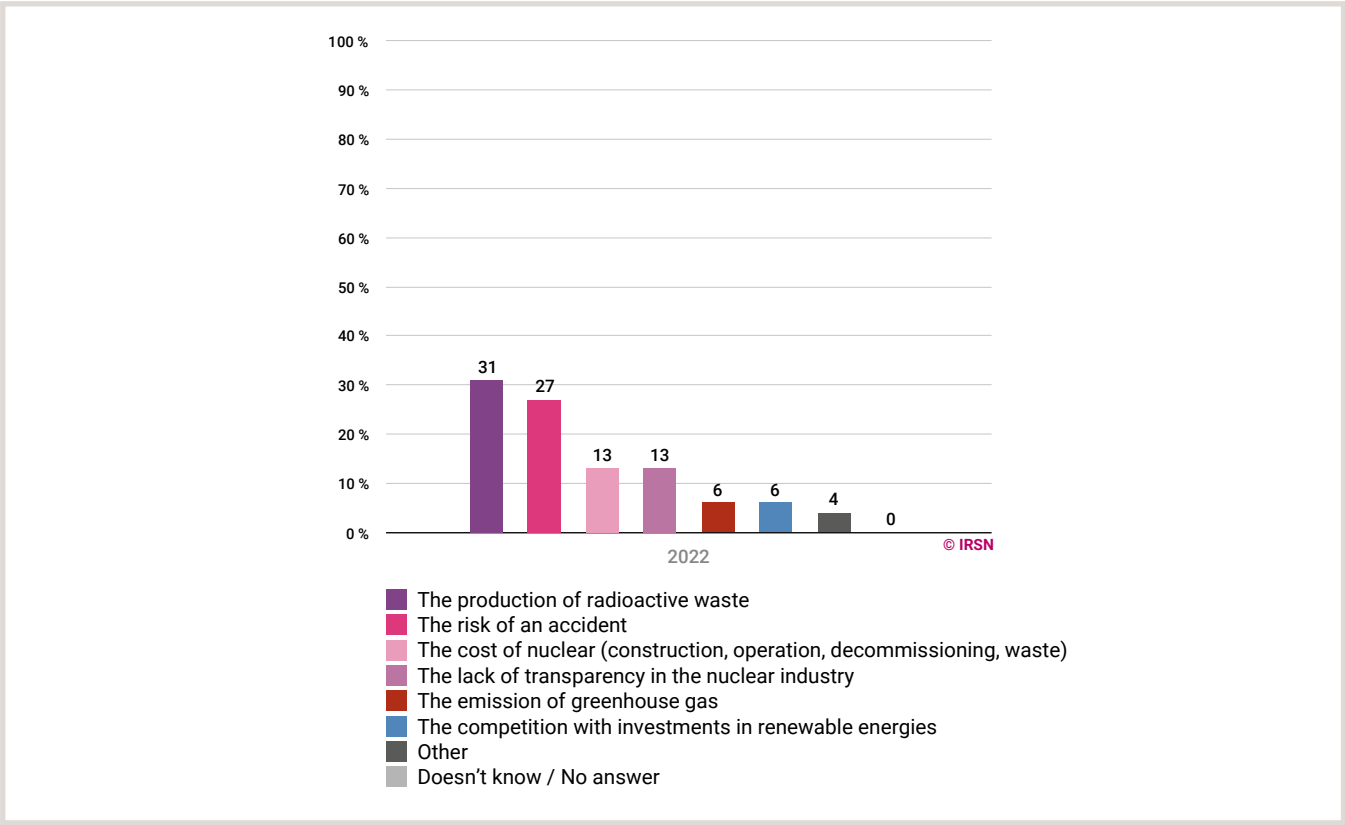
→ EVOLUTION OF THE RESULTS 2002-2022 (IN %)



QUESTION
No. 4

What do you think is the strongest argument
against nuclear power today?

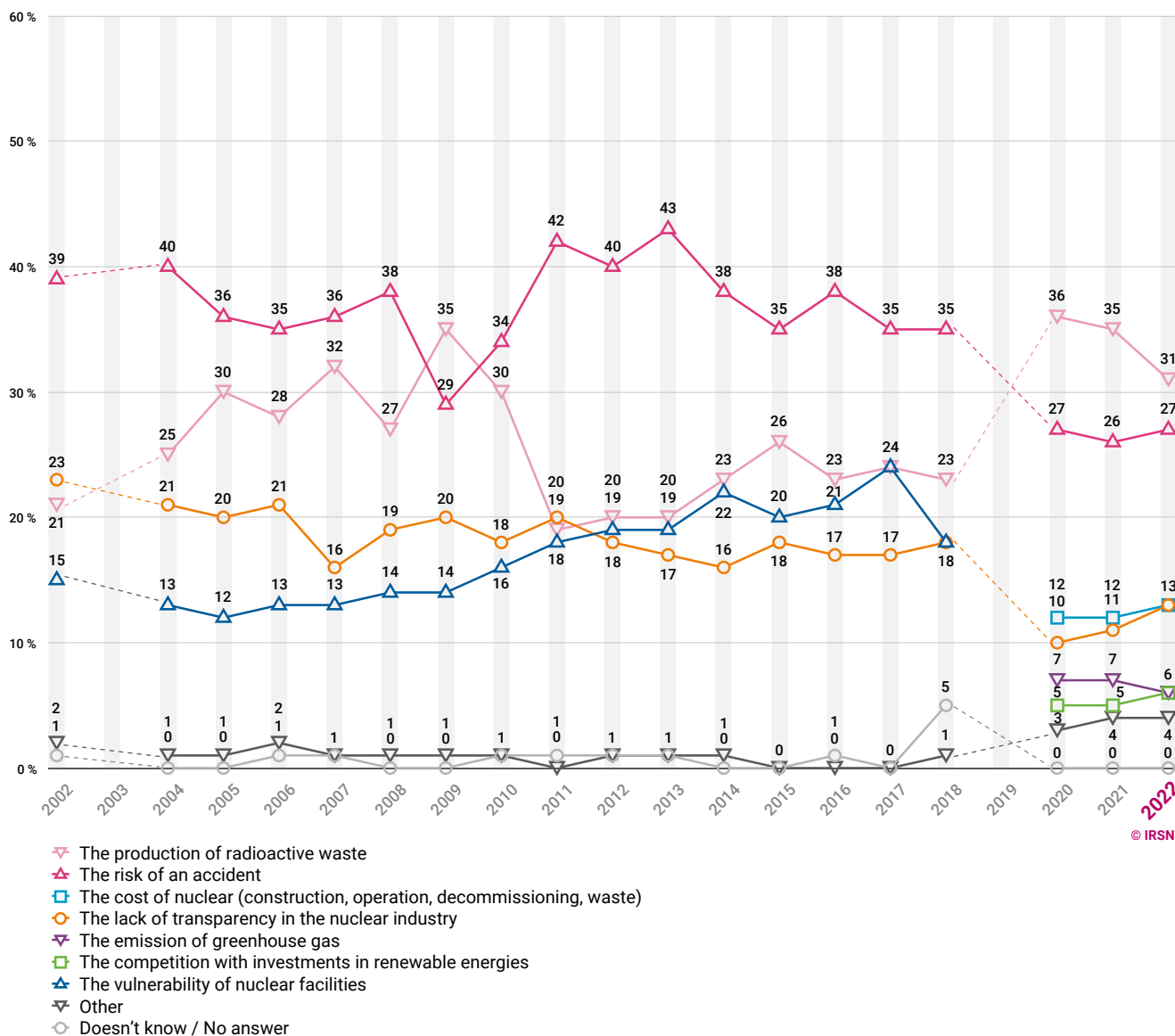
→ NOVEMBER 2022 (IN %)



QUESTION No. 4 (CONT.)

What do you think is the strongest argument against nuclear power today?

→ EVOLUTION OF THE RESULTS 2002-2022 (IN %)

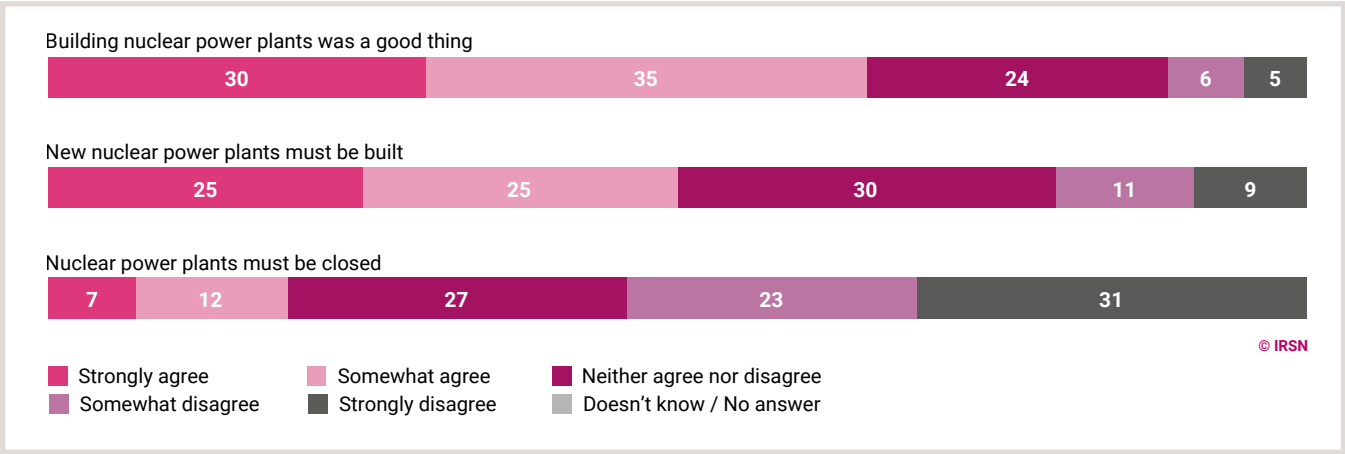


In recent years, the list of proposals has changed. In 2018, "the risk of an accident" replaced "the Chernobyl and Fukushima accidents". In 2020, "vulnerability of nuclear facilities" was removed, "nuclear waste" was replaced by "nuclear waste production", and "the cost of nuclear power (construction, decommissioning, waste)", "competition to investments in renewable energy" and "the emission of greenhouse gas" were added. In 2022, "the cost of nuclear (construction, decommissioning, waste)" was replaced by "the cost of nuclear (construction, operation, decommissioning, waste)".

QUESTION
No. 5

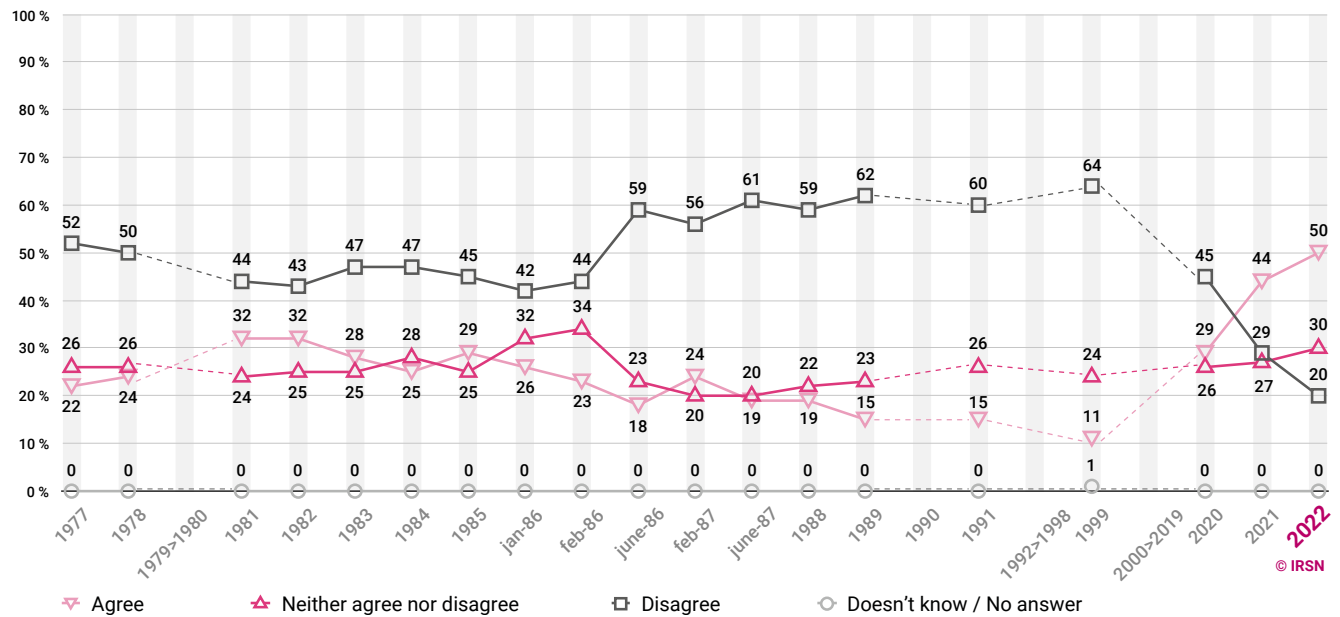
Here are various proposals relating to nuclear energy. For each one, please indicate your opinion according to the following scale.

→ NOVEMBER 2022 (IN %)



→ EVOLUTION OF THE RESULTS 1977-2022 (IN %)

1 - New nuclear power plants must be built



In 2020, the list “fully agree, rather agree, maybe agree, not so much agree, not at all agree” was replaced by “strongly agree, somewhat agree, neither agree nor disagree, somewhat disagree, strongly disagree”.

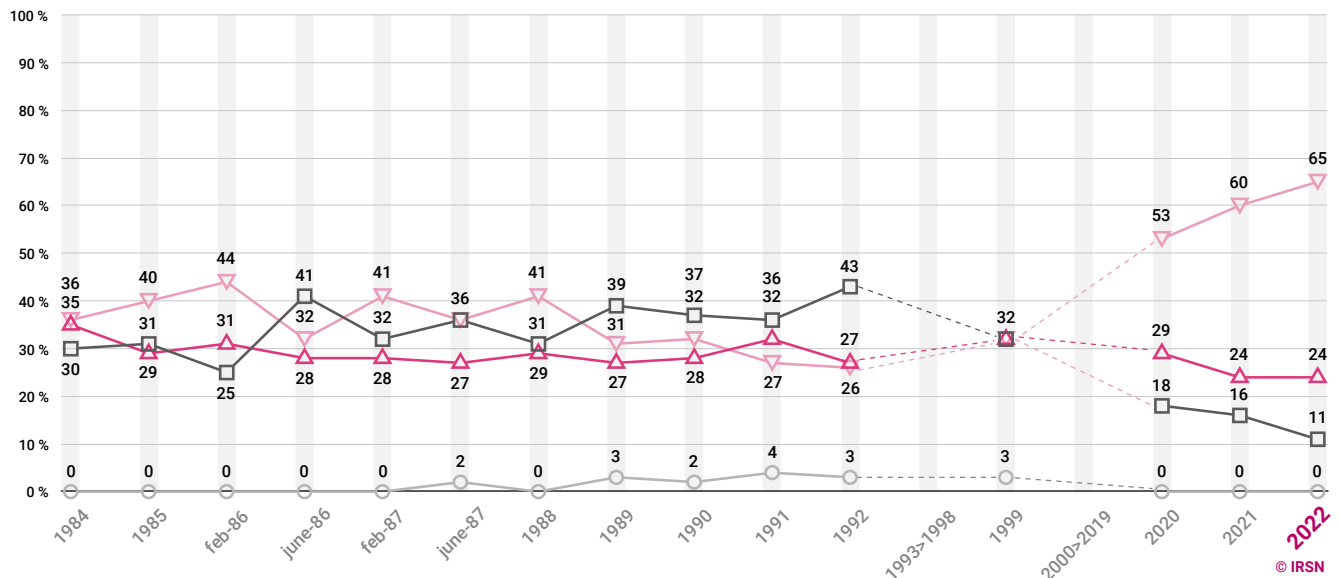
The answers “Strongly agree” and “Somewhat agree” were grouped into “Agree”; “Somewhat disagree” and “Strongly disagree” answers into “Disagree”.

QUESTION No. 5 (CONT.)

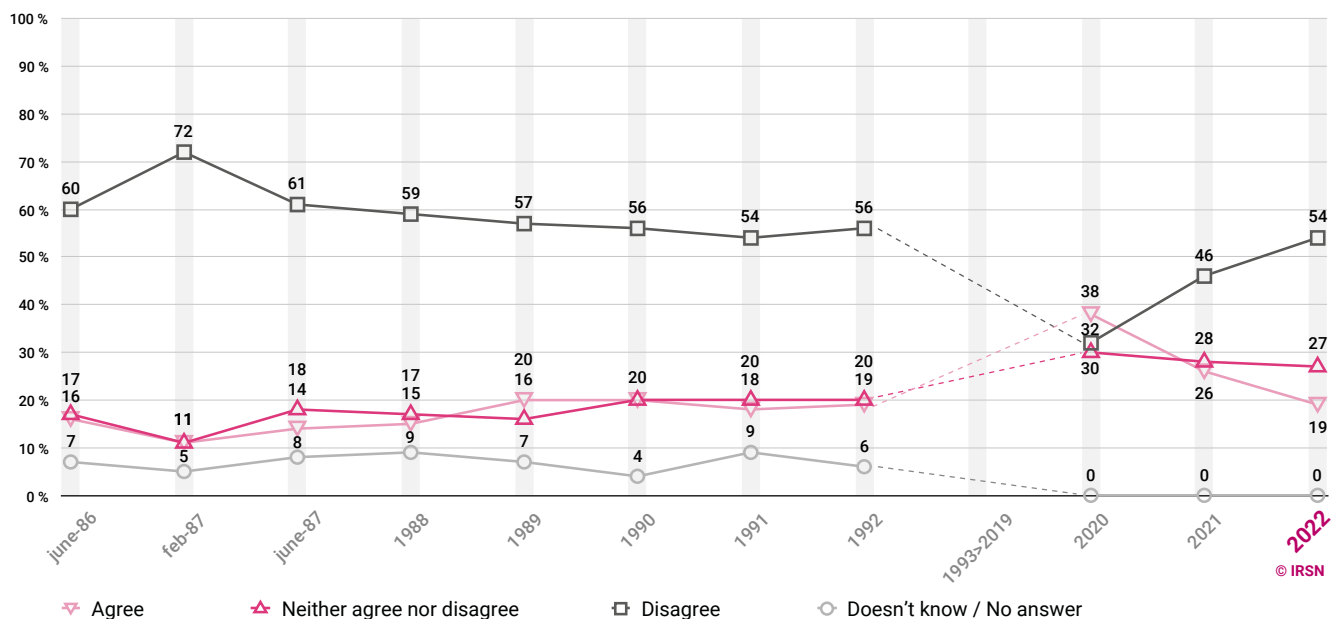
Here are various proposals relating to nuclear energy. For each one, please indicate your opinion according to the following scale.

→ EVOLUTION OF THE RESULTS 1984-2022 (IN %)

2 - Building nuclear power plants was a good thing



3 - Nuclear power plants must be closed



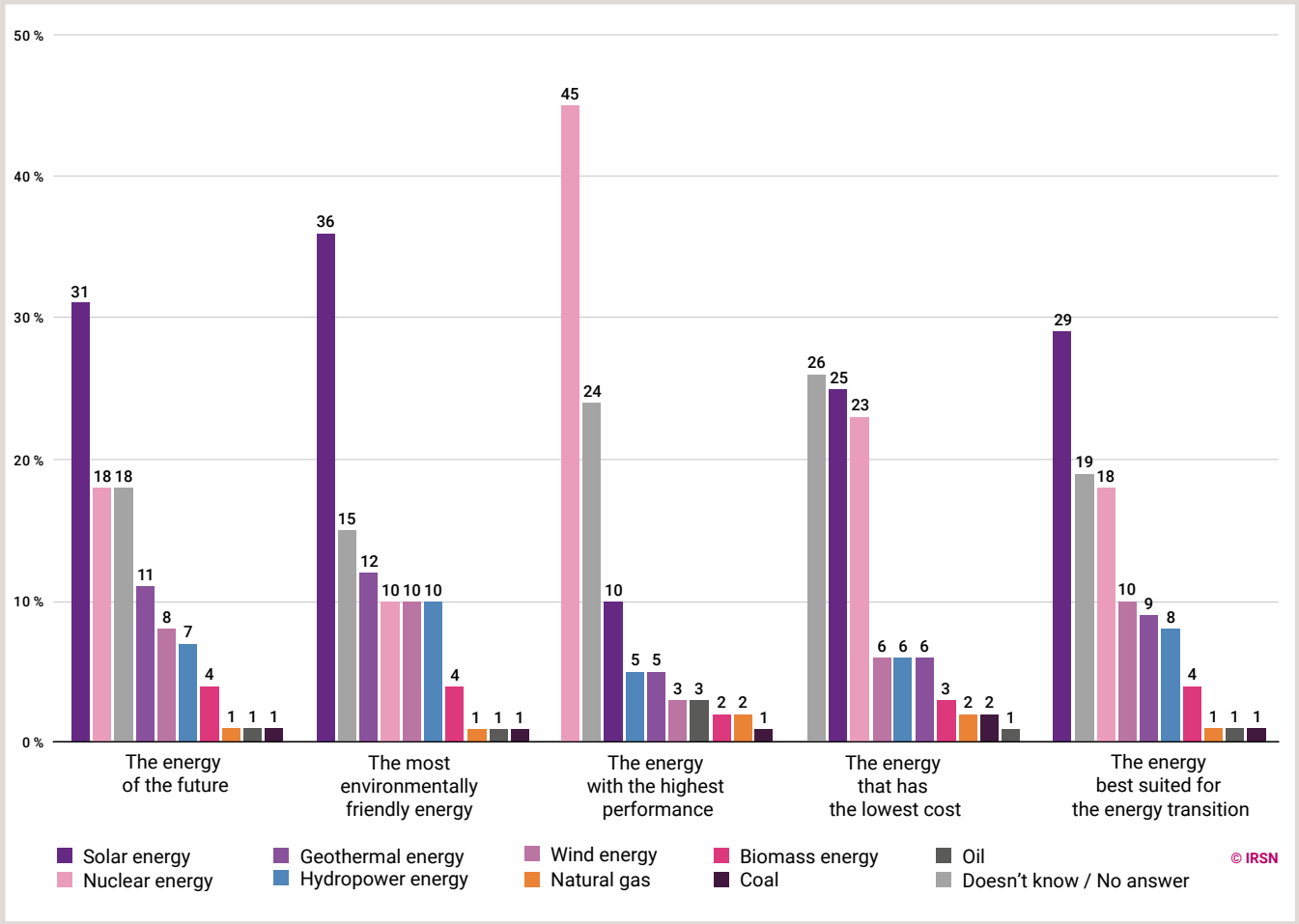
In 2020, the list "fully agree, rather agree, maybe agree, not so much agree, not at all agree" was replaced by "strongly agree, somewhat agree, neither agree nor disagree, somewhat disagree, strongly disagree".

The answers "Strongly agree" and "Somewhat agree" were grouped into "Agree"; "Somewhat disagree" and "Strongly disagree" answers into "Disagree".

QUESTION
No. 6

In your opinion, which of the following energy sources best corresponds to...

→ NOVEMBER 2022 (IN %)



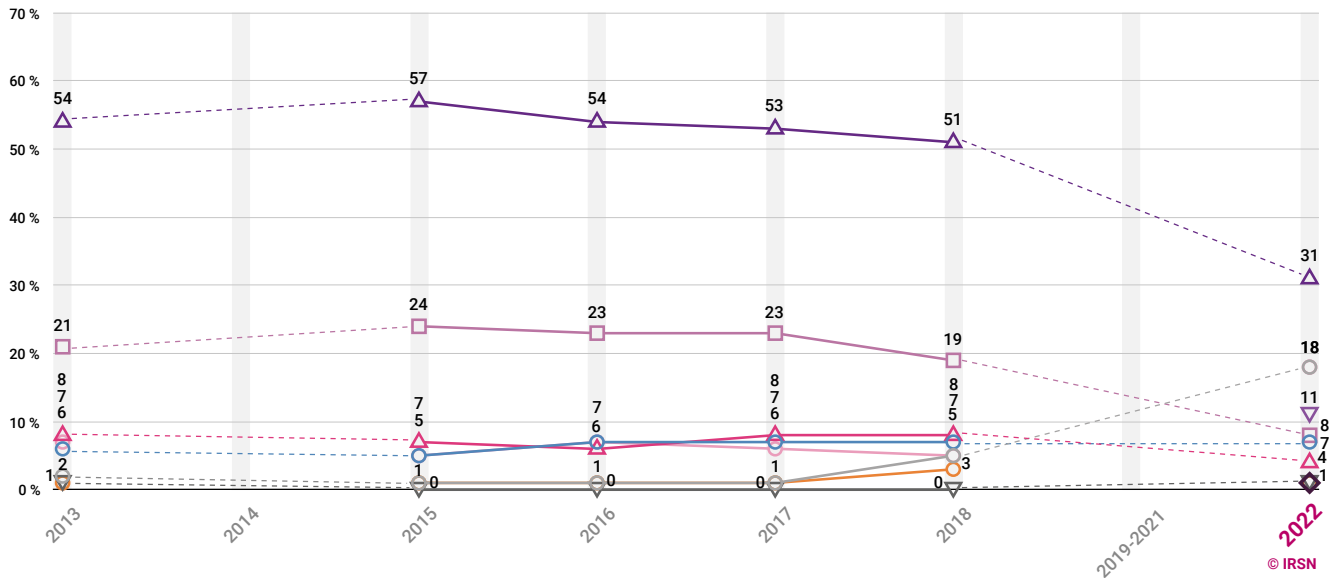
In 2022, "hydroelectric power (energy produced by dams)" was replaced by "hydropower energy". The answers "geothermal energy" and "coal" have been added.

QUESTION No. 6 (CONT.)

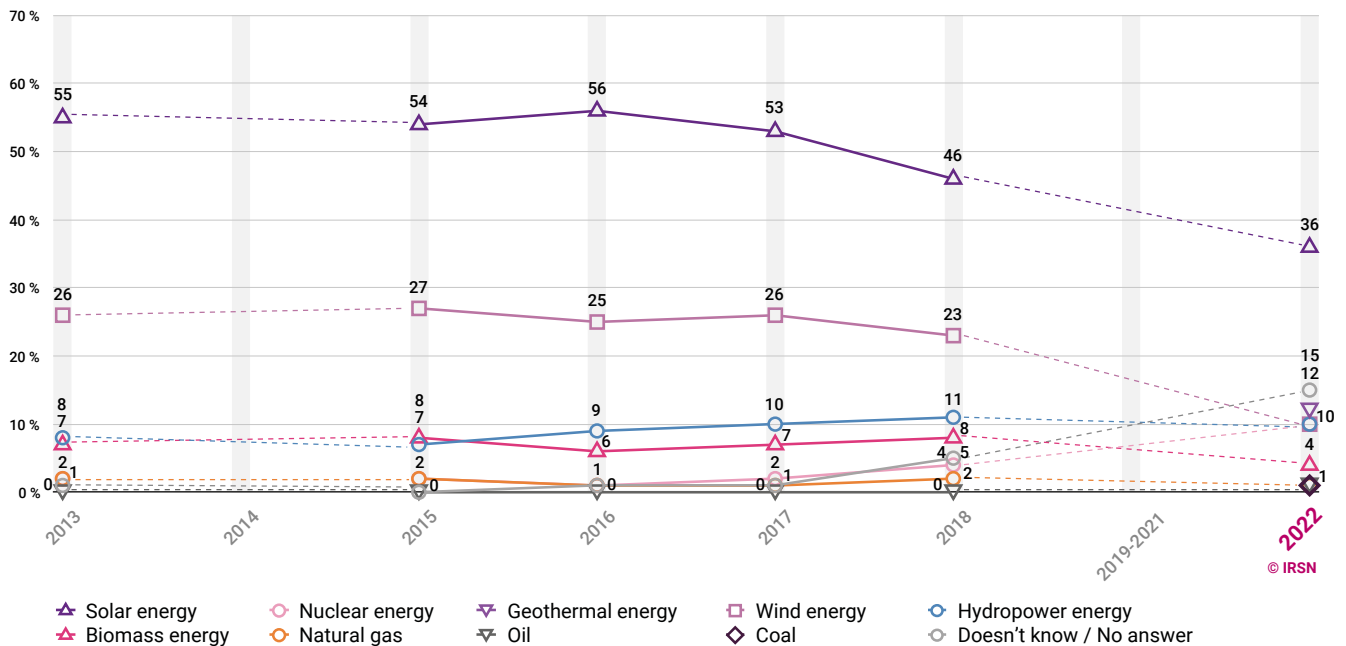
In your opinion, which of the following energy sources best corresponds to...*

→ EVOLUTION OF THE RESULTS 2013-2022 (IN %)

1 - The energy of the future



2 - The most environmentally friendly energy



* In 2022, the title of the question "Among the energies I will state to you, which one best corresponds to each of the following qualities?" has been replaced by "In your opinion, which of the following energy sources best corresponds to...". The questions "the least problematic energy at the international level", "the least expensive energy per kilowatt", "the cheapest energy to exploit per kilowatt produced", "the least polluting energy", "the energy that best helps fight the greenhouse effect" have been deleted, but some continue to be represented this year. The questions "the energy that has the lowest cost" and "the energy best suited for the energy transition" have been added.

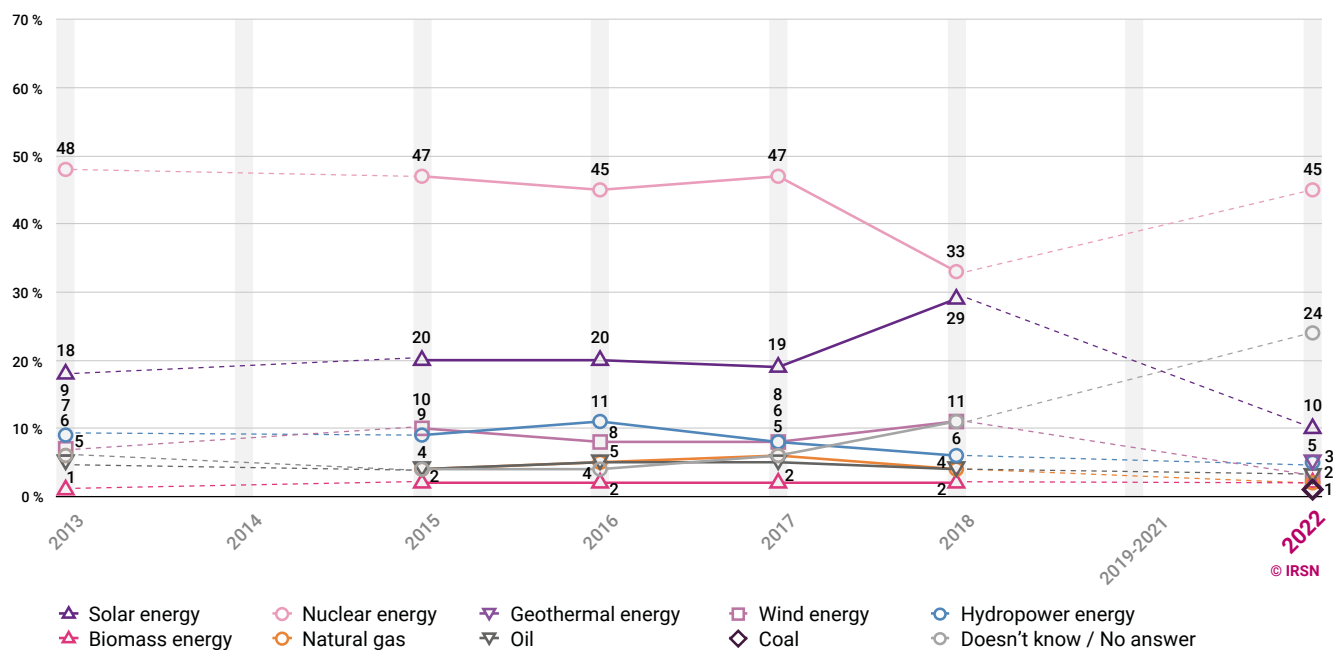
In 2022, "hydroelectric power (energy produced by dams)" was replaced by "hydropower energy". The answers "geothermal energy" and "coal" have been added.

QUESTION No. 6 (CONT.)

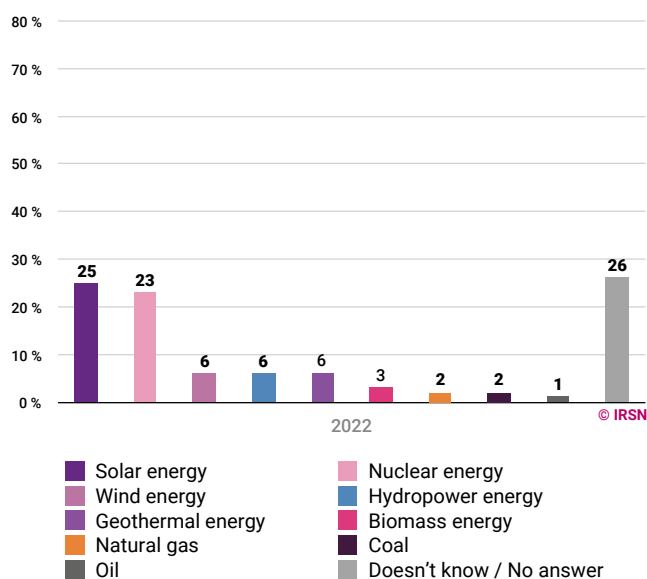
In your opinion, which of the following energy sources best corresponds to...*

→ EVOLUTION OF THE RESULTS 2013-2022 (IN %)

3 - The energy with the highest performance



4 - The energy that has the lowest cost⁽¹⁾



(1) In 2022, the question "the energy that has the lower cost" has been added.

* In 2022, the title of the question "Among the energies I will state to you, which one best corresponds to each of the following qualities?" has been replaced by "In your opinion, which of the following energy sources best corresponds to...". The questions "the least problematic energy at the international level", "the least expensive energy per kilowatt", "the cheapest energy to exploit per kilowatt produced", "the least polluting energy", "the energy that best helps fight the greenhouse effect" have been deleted, but some continue to be represented this year. The questions "the energy that has the lowest cost" and "the energy best suited for the energy transition" have been added.

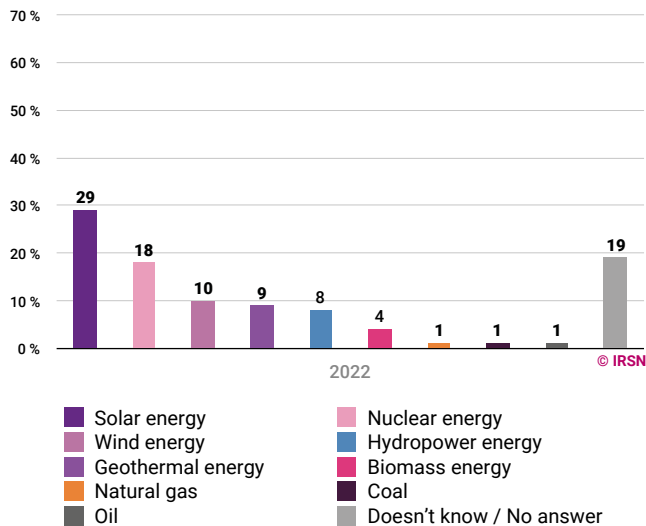
In 2022, "hydroelectric power (energy produced by dams)" was replaced by "hydropower energy". The answers "geothermal energy" and "coal" have been added.

QUESTION No. 6 (CONT.)

In your opinion, which of the following energy sources best corresponds to...*

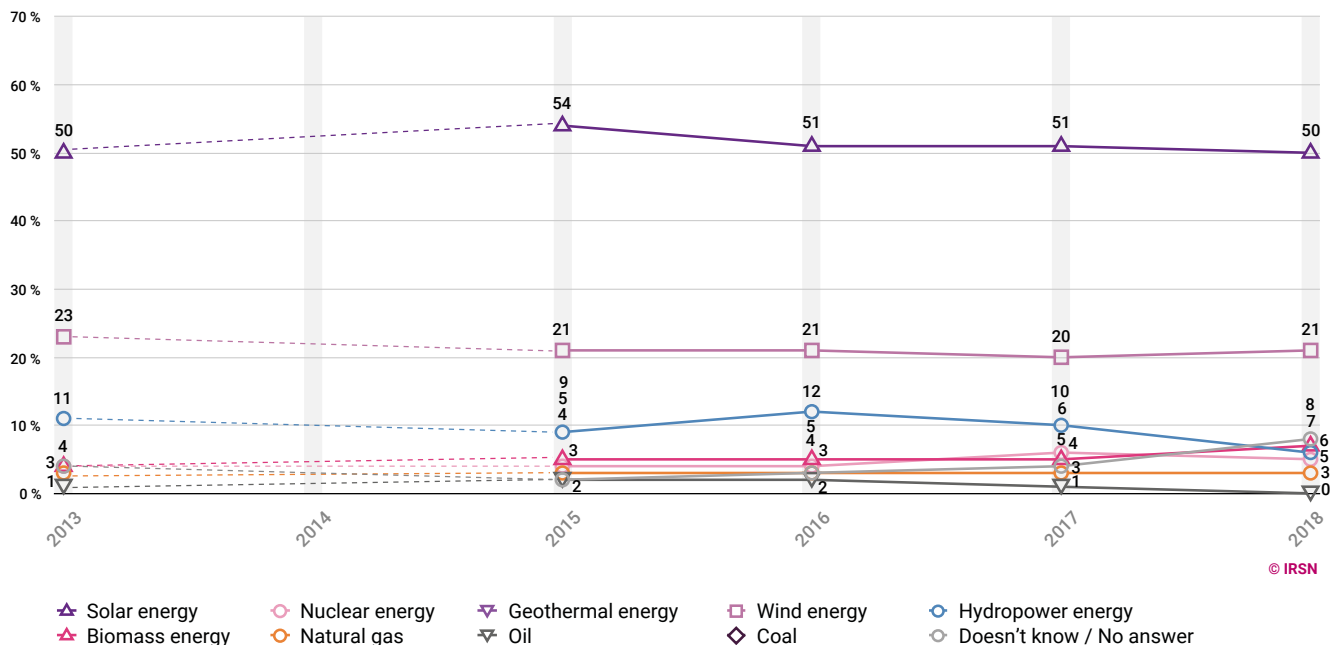
→ EVOLUTION OF THE RESULTS 2013-2022 (IN %)

5 - The energy best suited for the energy transition⁽¹⁾



(1) In 2022, the question "The energy best suited for the energy transition" has been added.

6 - The least problematic energy at the international level⁽²⁾



(2) In 2022, the question "The least problematic energy at the international level" has been deleted.

* In 2022, the title of the question "Among the energies I will state to you, which one best corresponds to each of the following qualities?" has been replaced by "In your opinion, which of the following energy sources best corresponds to...". The questions "the least problematic energy at the international level", "the least expensive energy per kilowatt", "the cheapest energy to exploit per kilowatt produced", "the least polluting energy", "the energy that best helps fight the greenhouse effect" have been deleted, but some continue to be represented this year. The questions "the energy that has the lowest cost" and "the energy best suited for the energy transition" have been added.

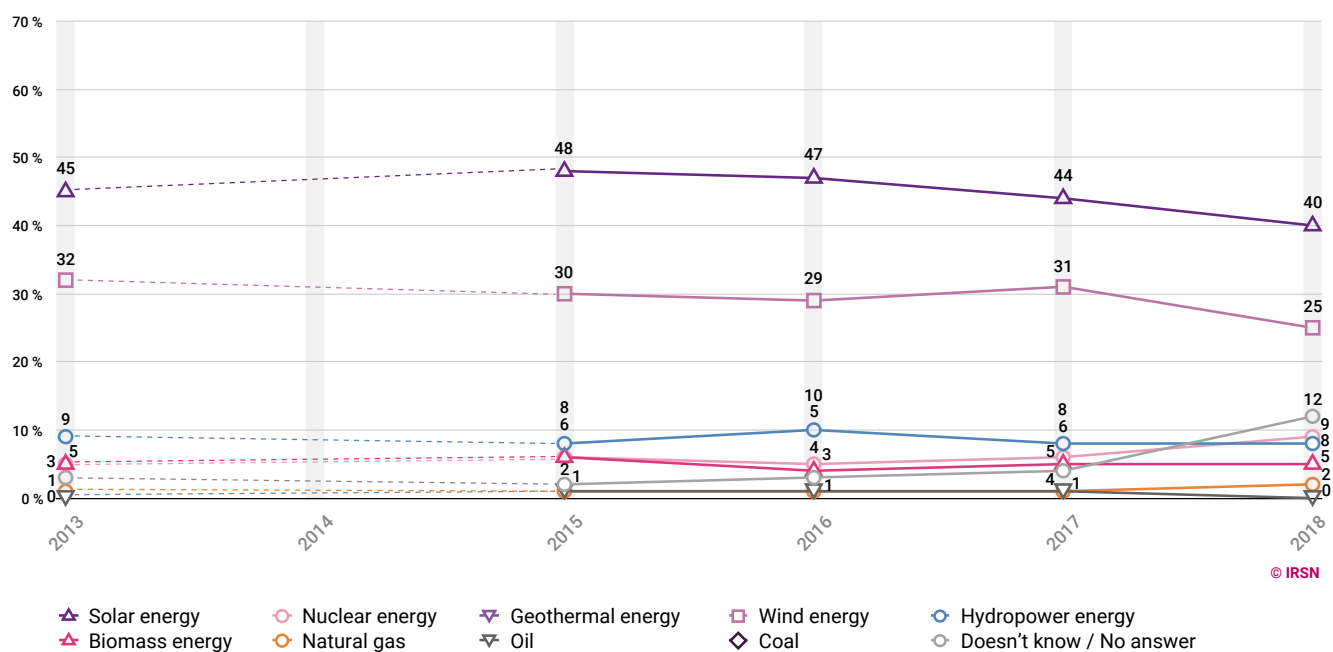
In 2022, "hydroelectric power (energy produced by dams)" was replaced by "hydropower energy". The answers "geothermal energy" and "coal" have been added.

QUESTION No. 6 (CONT.)

In your opinion, which of the following energy sources best corresponds to...*

→ EVOLUTION OF THE RESULTS 2013-2018 (IN %)

7 - The energy that best helps fight the greenhouse effect



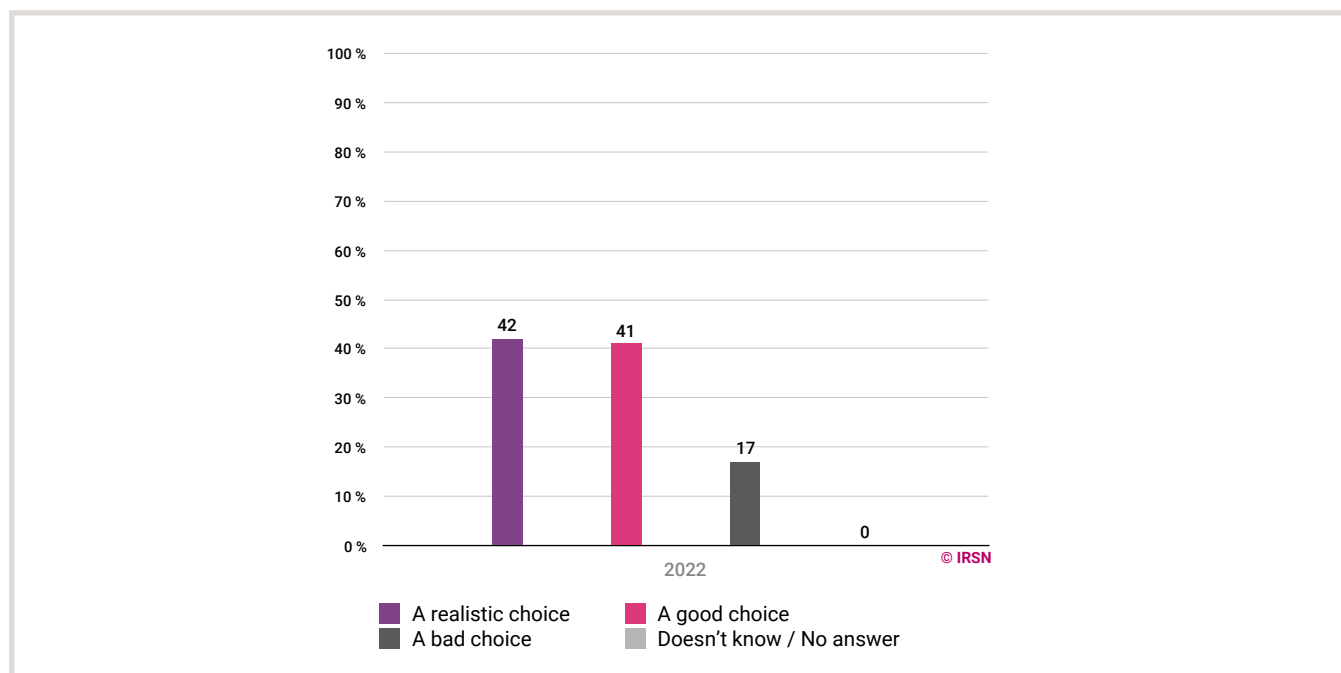
* In 2022, the title of the question "Among the energies I will state to you, which one best corresponds to each of the following qualities?" has been replaced by "In your opinion, which of the following energy sources best corresponds to...". The questions "the least problematic energy at the international level", "the least expensive energy per kilowatt", "the cheapest energy to exploit per kilowatt produced", "the least polluting energy", "the energy that best helps fight the greenhouse effect" have been deleted, but some continue to be represented this year. The questions "the energy that has the lowest cost" and "the energy best suited for the energy transition" have been added.

In 2022, "hydroelectric power (energy produced by dams)" was replaced by "hydropower energy". The answers "geothermal energy" and "coal" have been added.

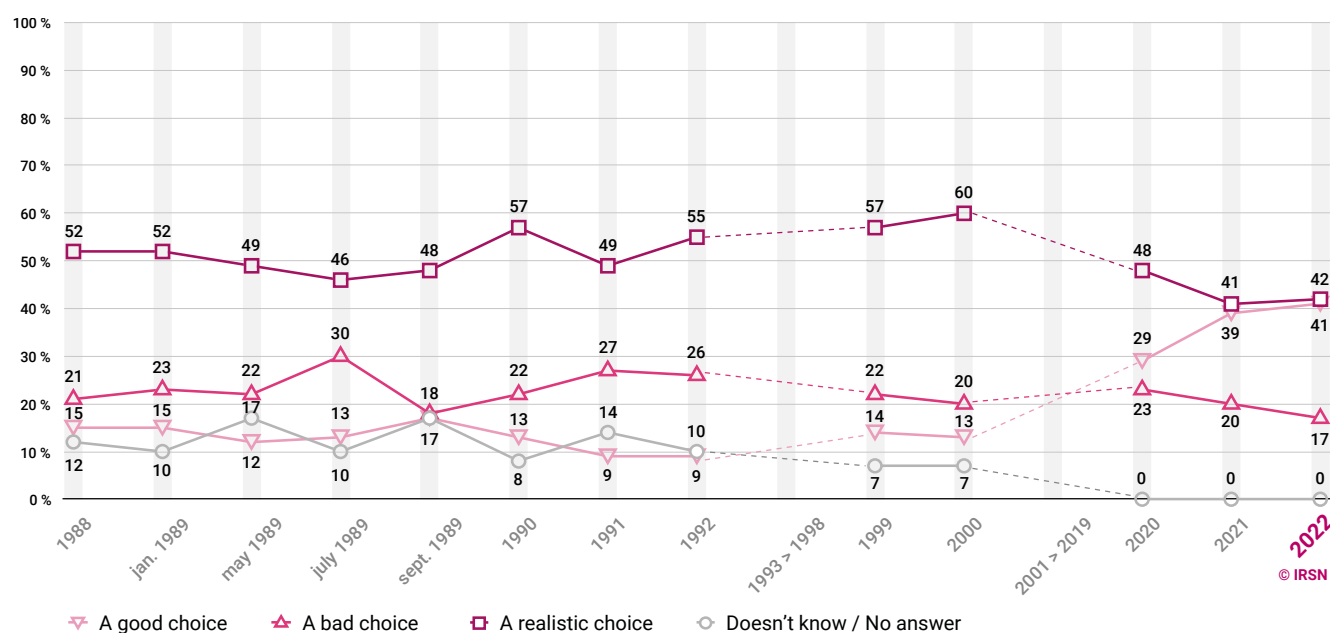
QUESTION No.7

Now and with hindsight, do you think that the choice of nuclear power was ...

→ NOVEMBER 2022 (IN %)



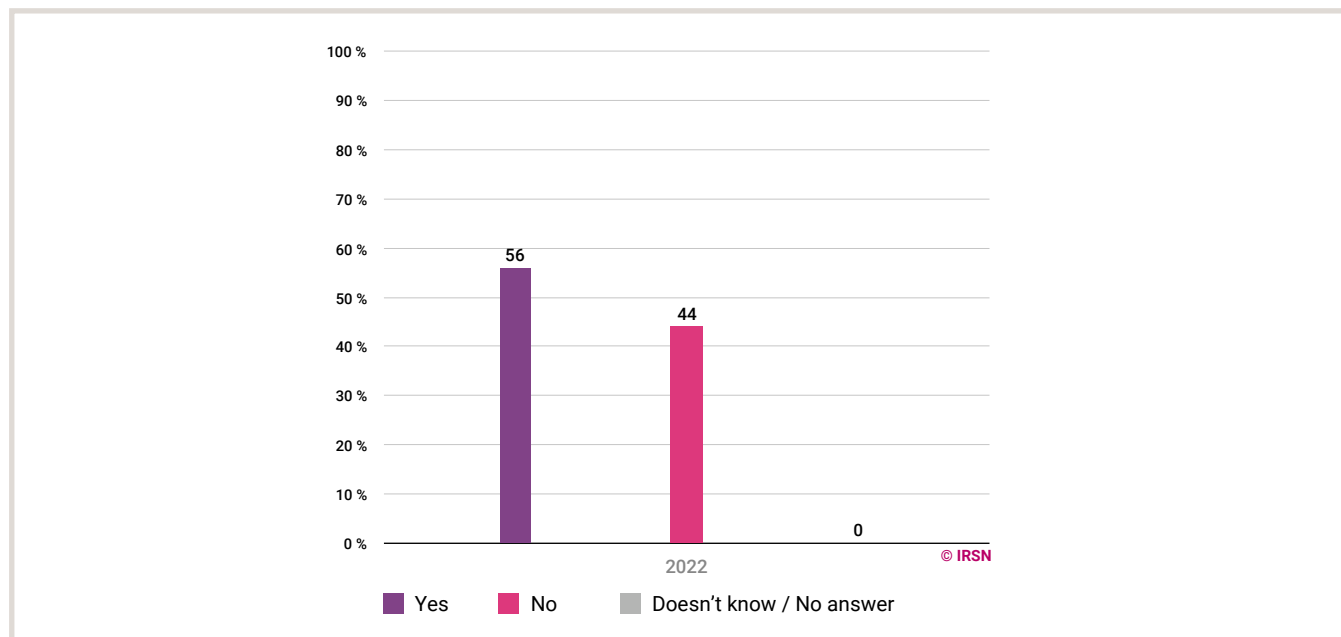
→ EVOLUTION OF THE RESULTS 1988-2022 (IN %)



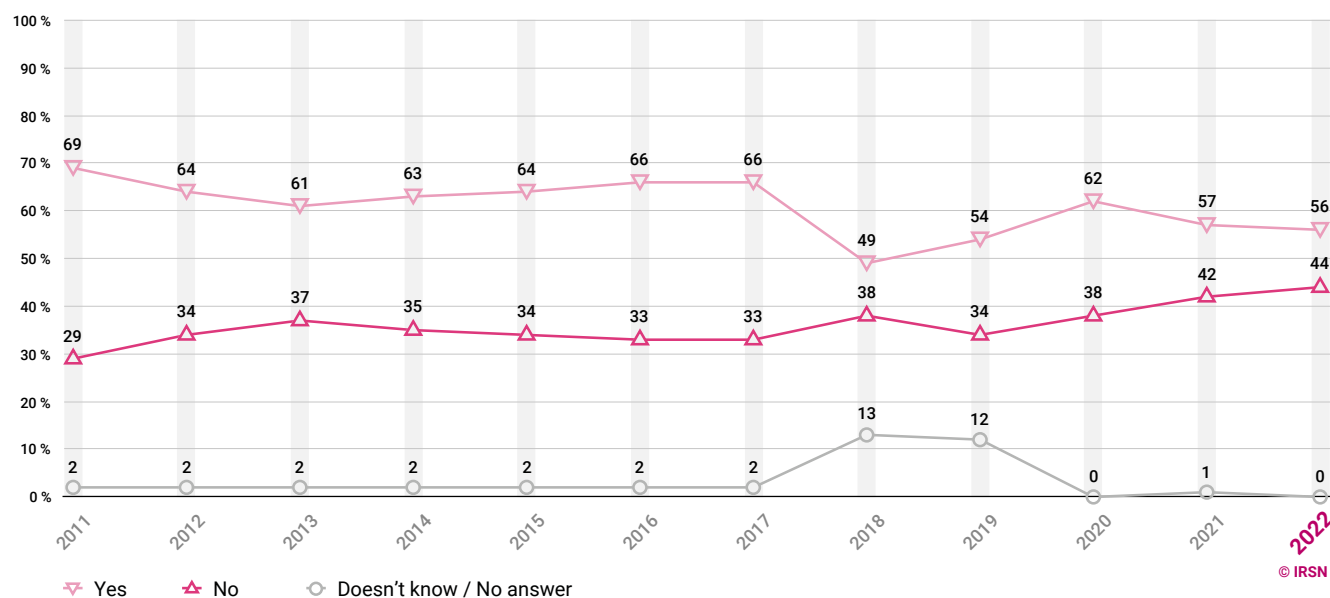
QUESTION No. 8

In your opinion, can an accident of the same magnitude as the one in Fukushima occur in a French nuclear power plant?*

→ NOVEMBER 2022 (IN %)



→ EVOLUTION OF THE RESULTS 2011-2022 (IN %)

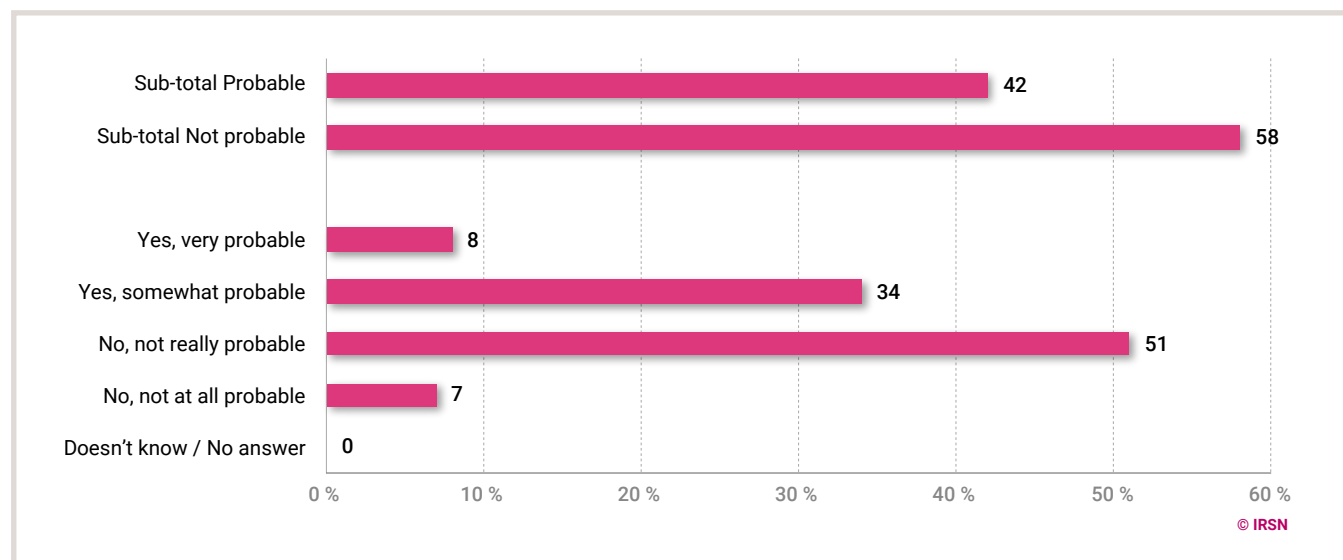


* Before 2018, the wording of the question was: "In your opinion, can an accident in a nuclear power plant of the same magnitude as the one in Fukushima occur in France?"

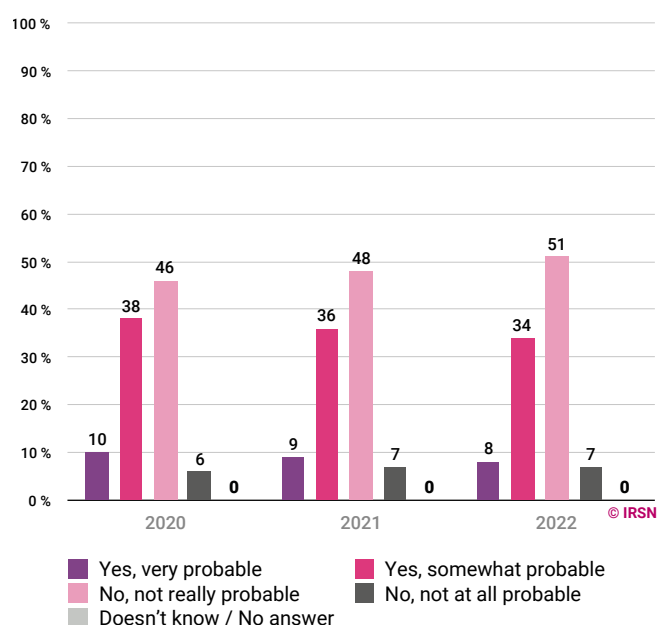
QUESTION No. 9

How likely do you think such an accident is?

→ NOVEMBER 2022 (IN %)



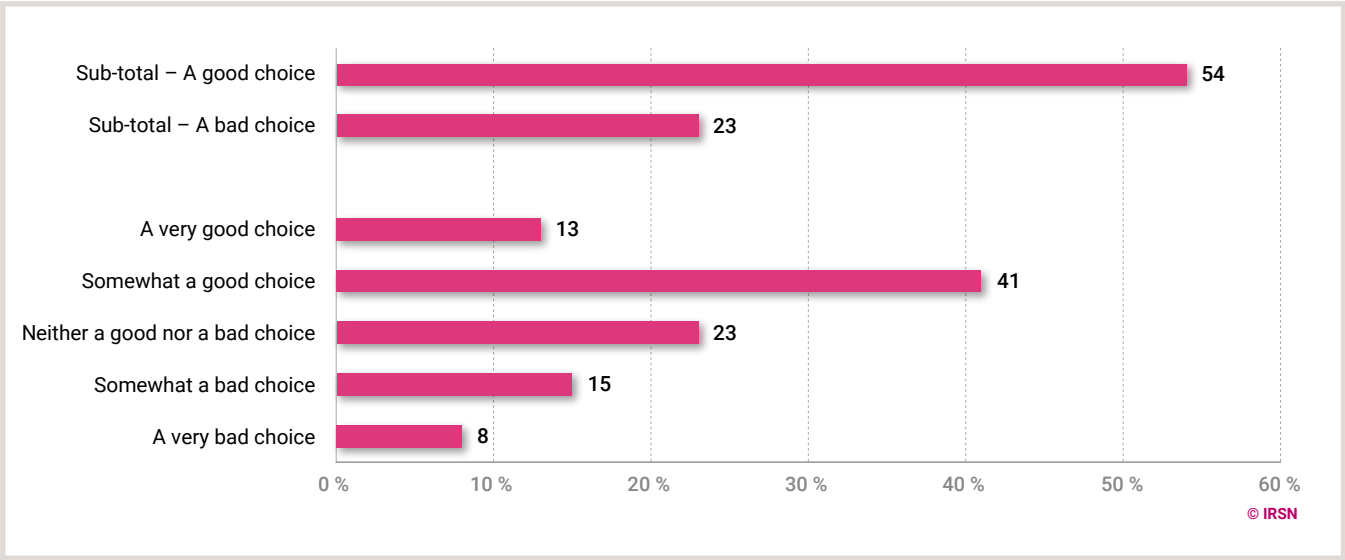
→ EVOLUTION OF THE RESULTS 2020-2022 (IN %)



QUESTION
No. 11

Based on what you know, do you think that the choice to extend the operating lifespan of nuclear power plants constitutes:

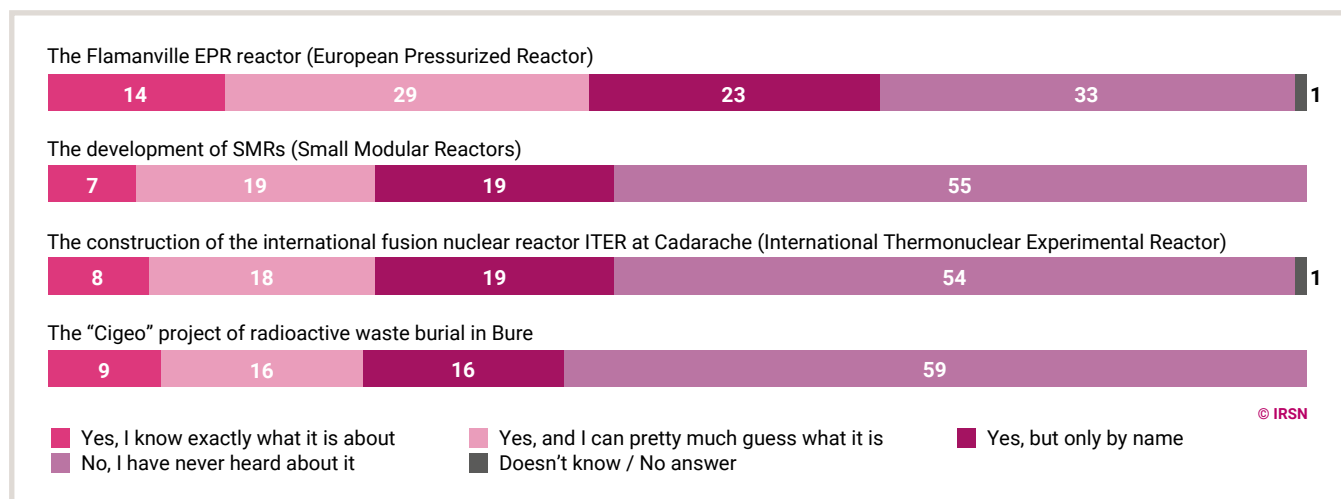
→ NOVEMBER 2022 (IN %)



QUESTION No. 12

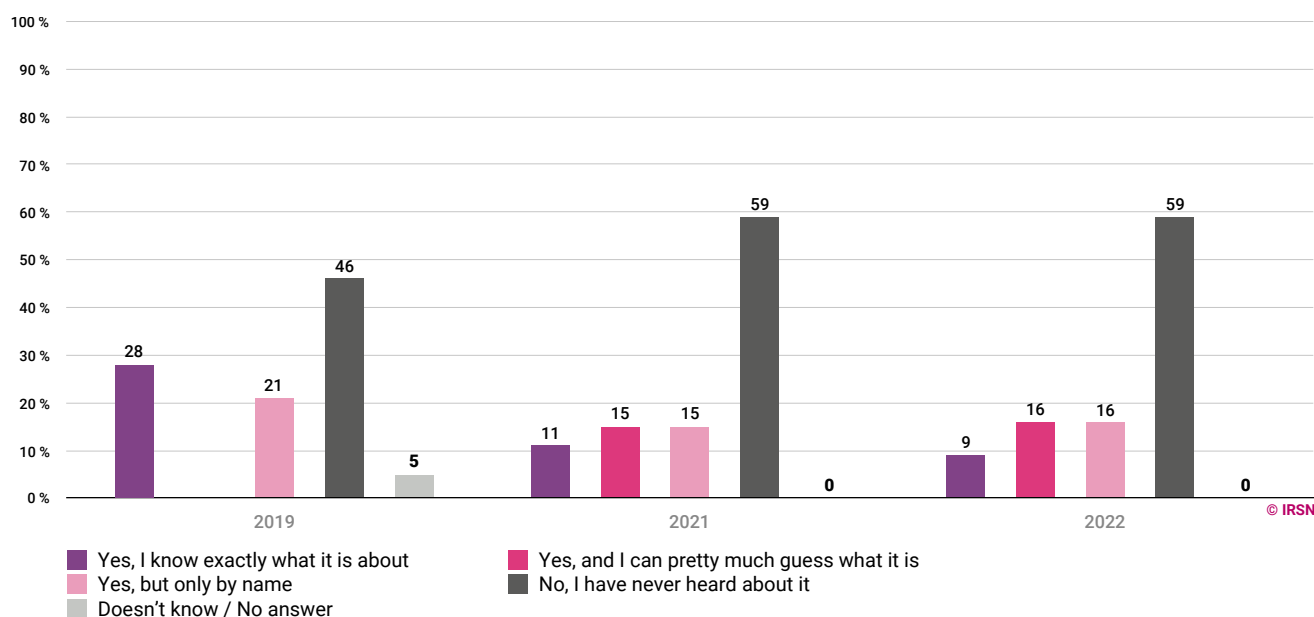
Have you heard of the following topics?

→ NOVEMBER 2022 (IN %)



→ EVOLUTION OF THE RESULTS 2019-2022 (IN %)

1 - The "Cigéo" project for radioactive waste storage in Bure*



* In 2022, the word "nuclear" was replaced by "radioactive".

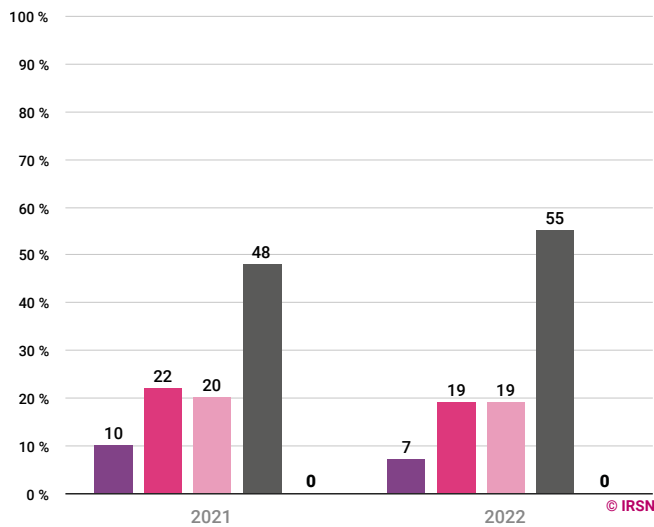
In 2021, the answer "Yes, and I can pretty much guess what it is" was added and the answer "Yes, I know more or less what it is about" was replaced by "Yes, but only by name".

QUESTION
No. 12
(CONT.)

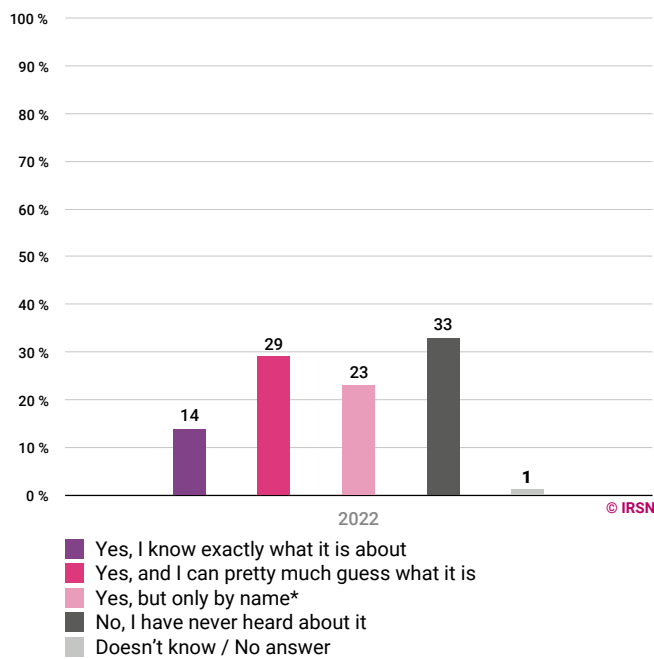
Have you heard of the following topics?

→ EVOLUTION OF THE RESULTS 2021-2022 (IN %)

2 - The development of SMRs (Small Modular Reactors)



3 - The Flamanville EPR reactor (European Pressurized Reactor)



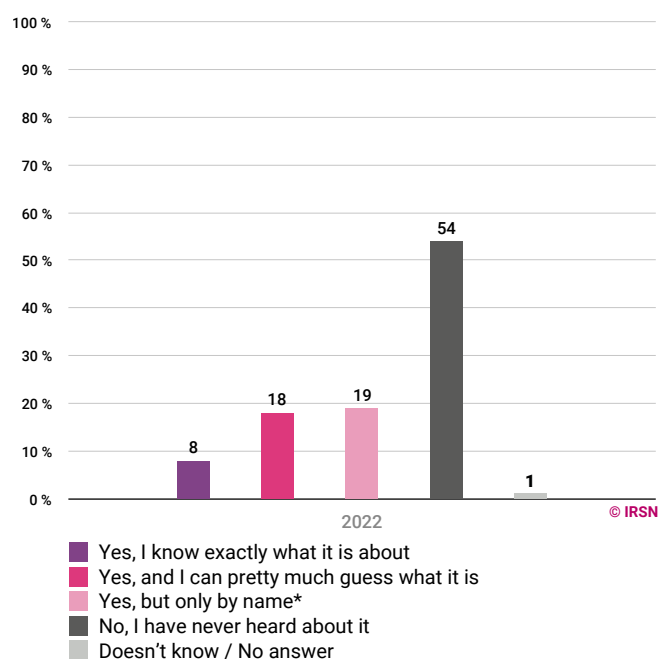
* In 2021, the answer "Yes, and I can pretty much guess what it is" was added and the answer "Yes, I know more or less what it is about" was replaced by "Yes, but only by name".

QUESTION
No. 12
(CONT.)

Have you heard of the following topics?

→ NOVEMBER 2022 (IN %)

**4 - The construction of the international fusion nuclear reactor ITER at Cadarache
(International Thermonuclear Experimental Reactor)**

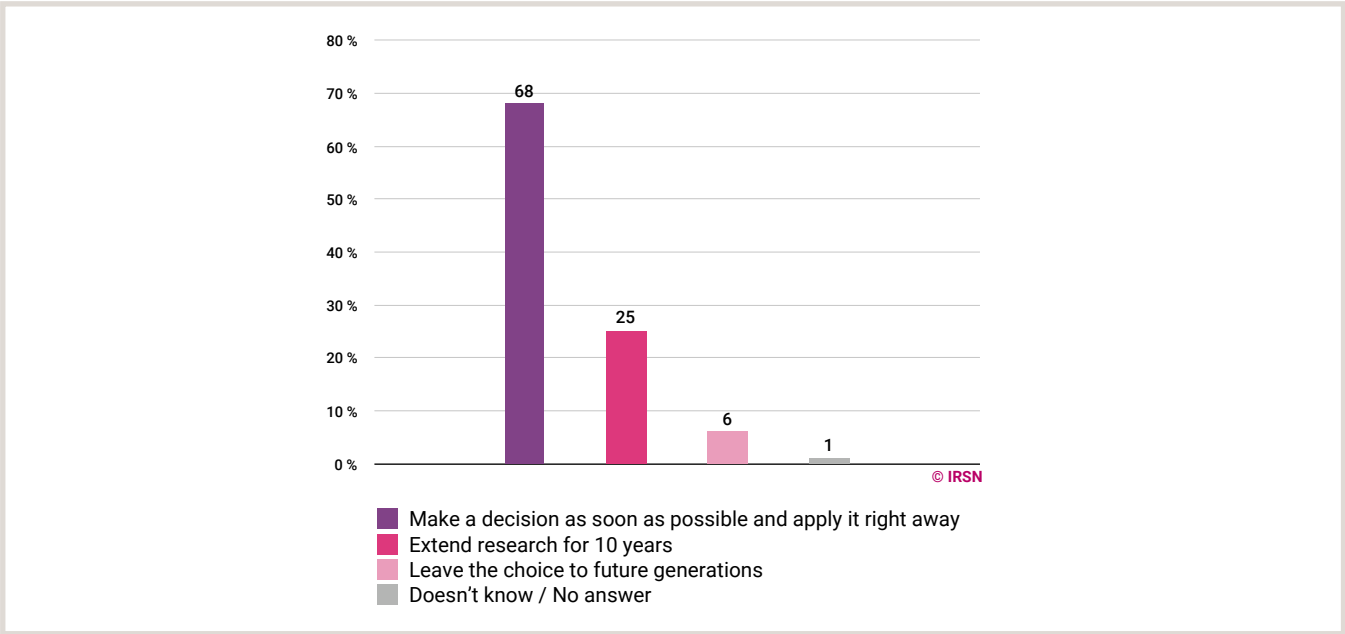


* In 2021, the answer "Yes, and I can pretty much guess what it is" was added and the answer "Yes, I know more or less what it is about" was replaced by "Yes, but only by name".

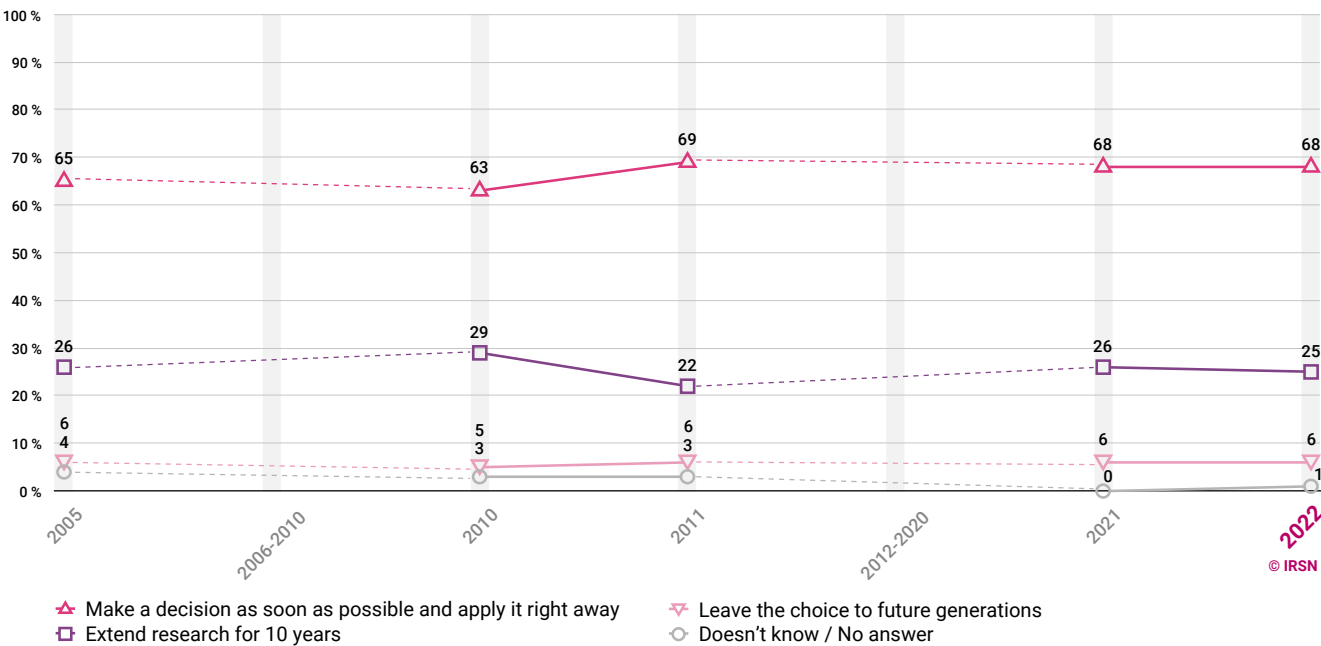
QUESTION
No. 10

To solve the radioactive waste problem, which solution sounds the most reasonable to you?

→ NOVEMBER 2022 (IN %)



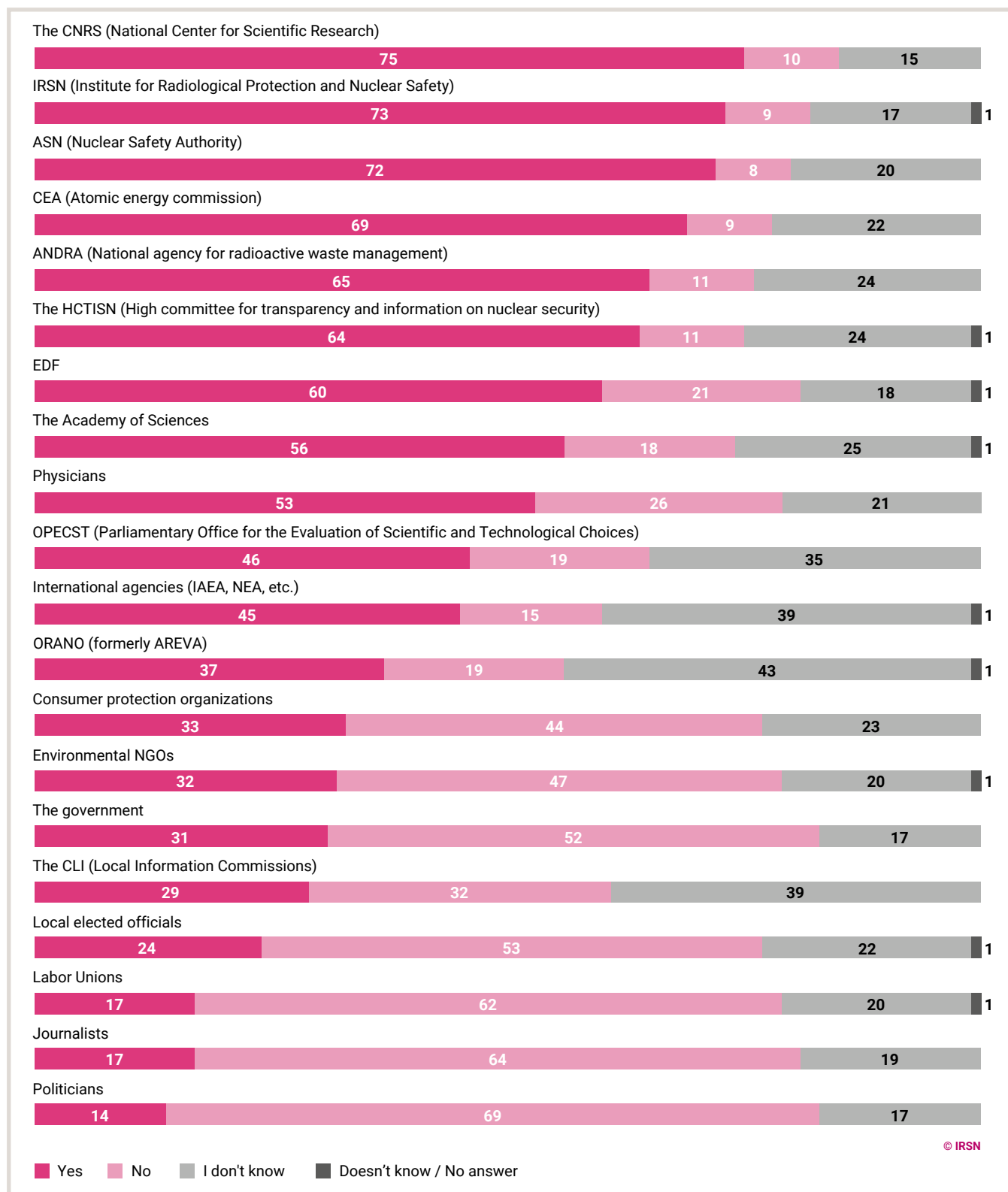
→ EVOLUTION OF THE RESULTS 2005-2022 (IN %)



QUESTION No. 13

In the field of nuclear industry and energy do you think the following actors and organizations are technically competent?

→ NOVEMBER 2022 (IN %)

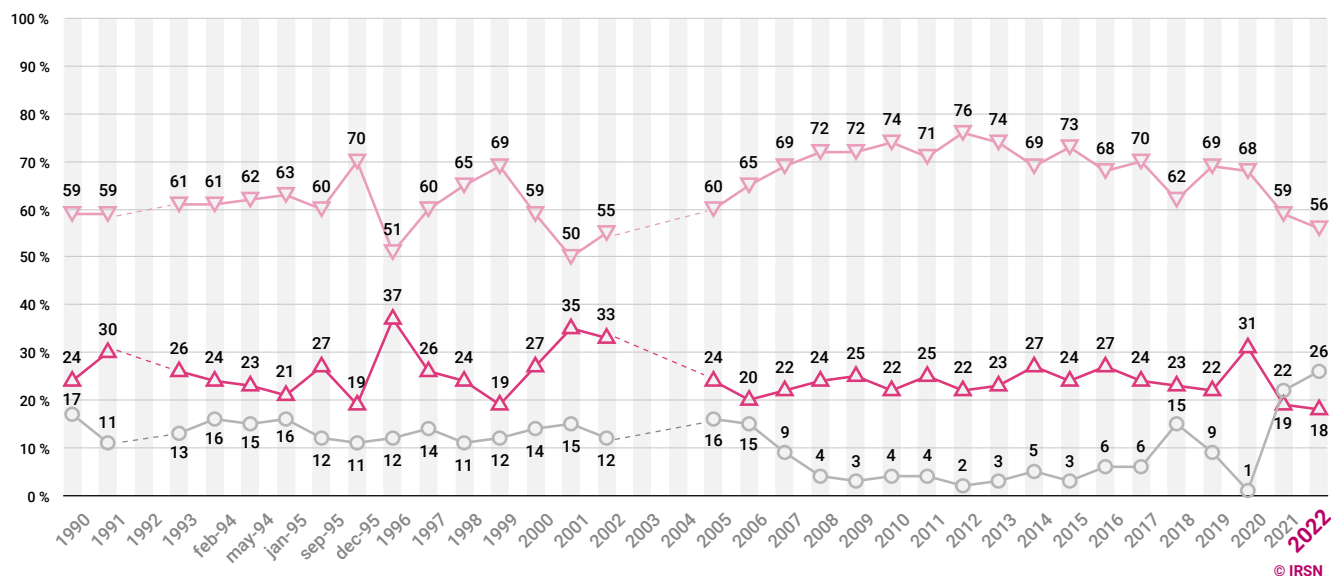


QUESTION No. 13 (CONT.)

In the field of nuclear industry and energy do you think the following actors and organizations are technically competent?

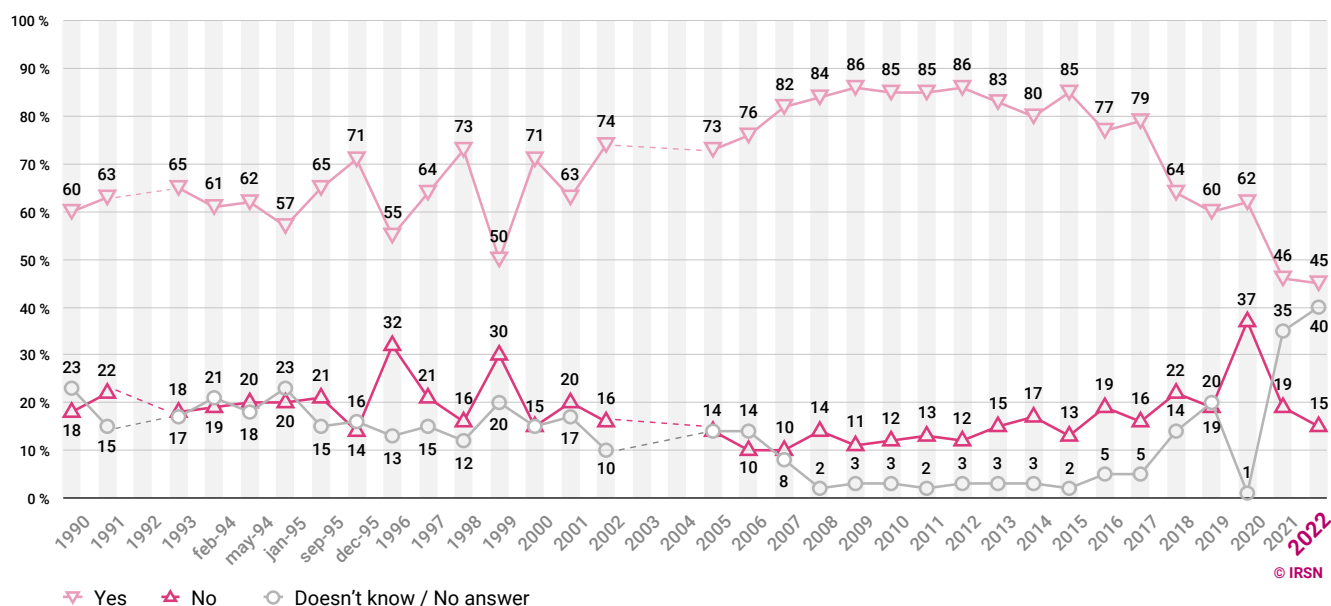
→ EVOLUTION OF THE RESULTS 1990-2022 (IN %)

1 - The Academy of Sciences



© IRSN

2 - International agencies (IAEA, NEA, etc.)*



© IRSN

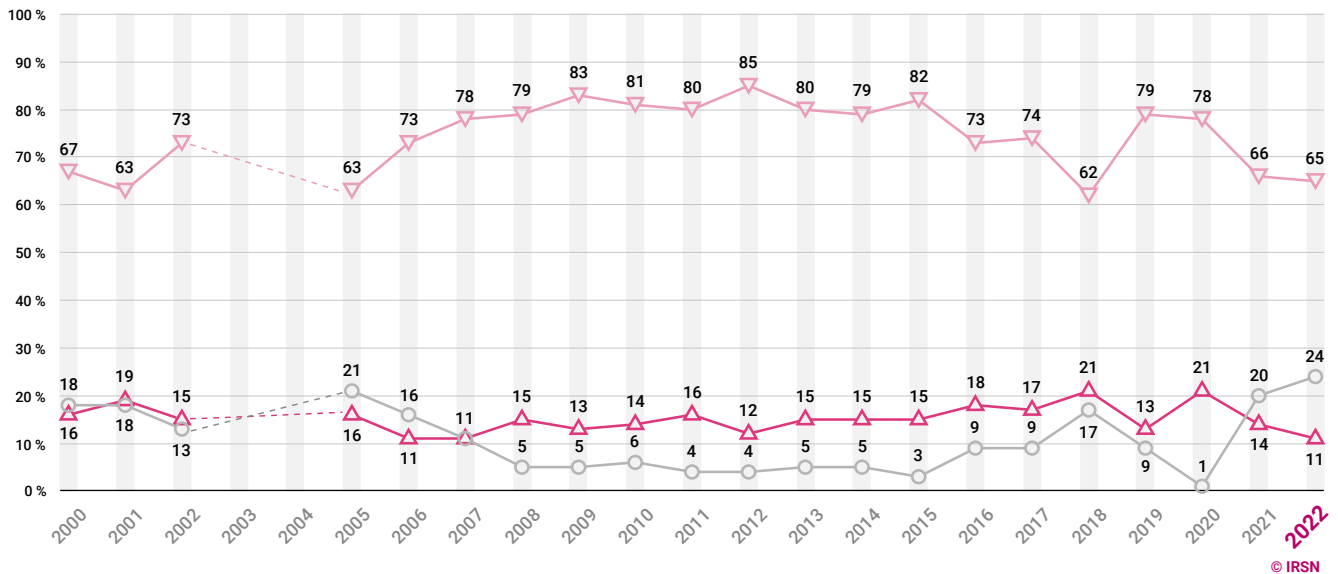
* In 1999 (and that year only), the wording "International expert bodies" was replaced by "International bodies". Then, in 2019, it was replaced by "International agencies (IAEA, NEA, etc.)".

QUESTION No. 13 (CONT.)

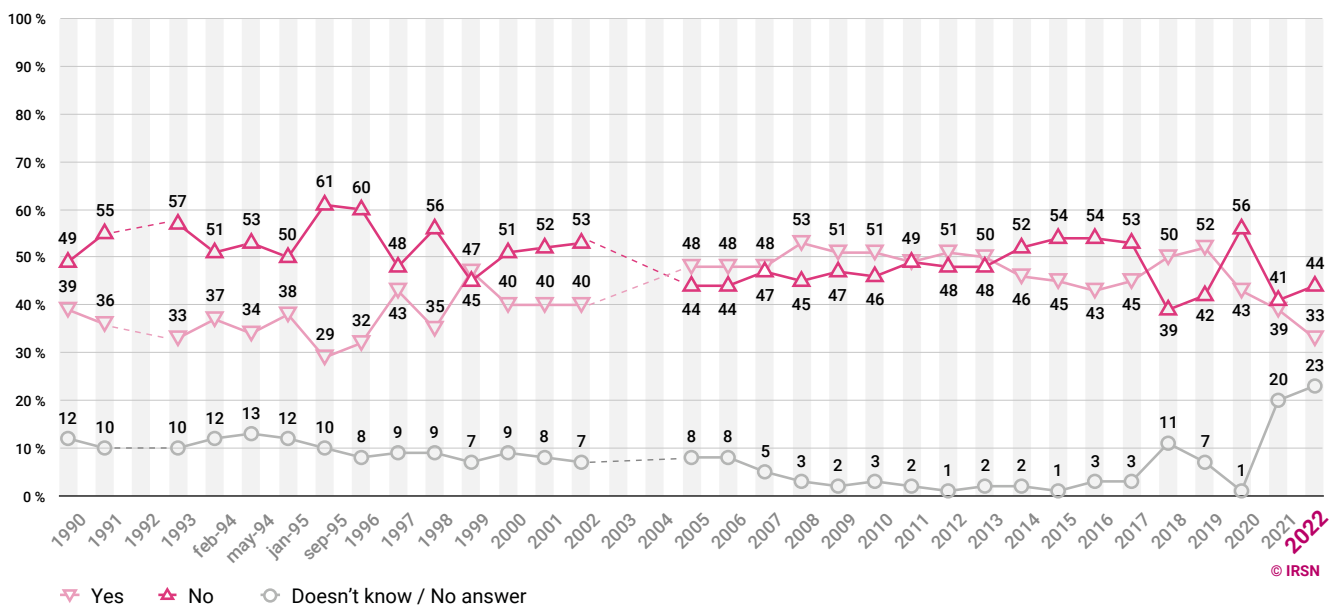
In the field of nuclear industry and energy do you think the following actors and organizations are technically competent?

→ EVOLUTION OF THE RESULTS 1990-2022 (IN %)

3 - ANDRA (National agency for radioactive waste management)



4 - Consumer protection organizations

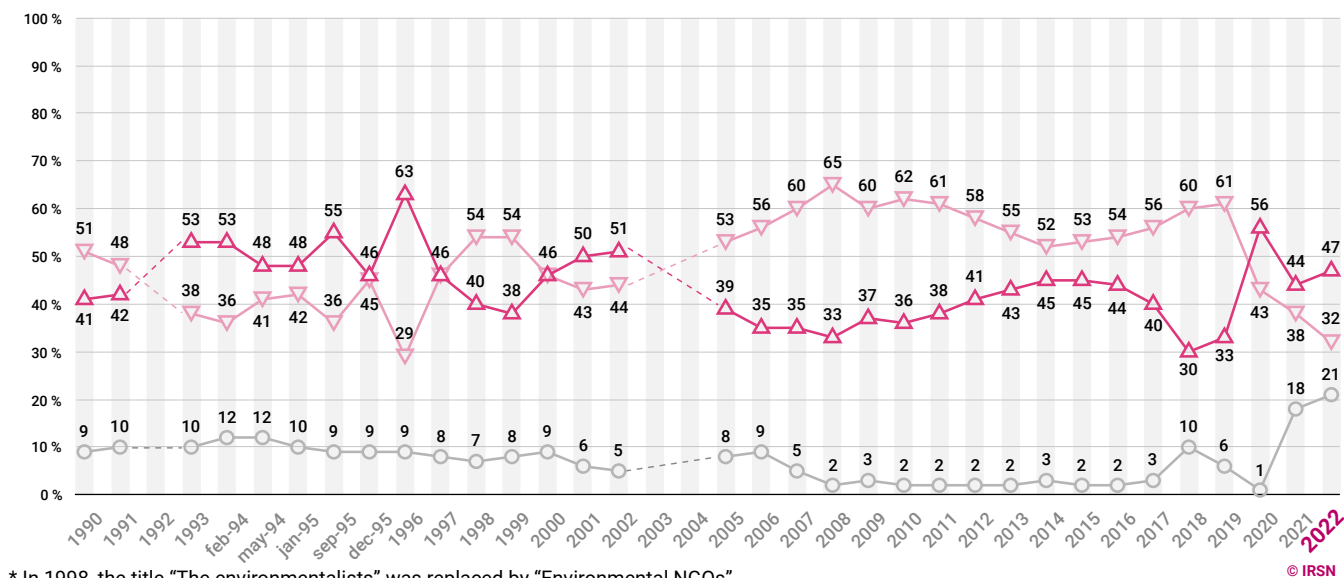


QUESTION No. 13 (CONT.)

In the field of nuclear industry and energy do you think the following actors and organizations are technically competent?

→ EVOLUTION OF THE RESULTS 1990-2022 (IN %)

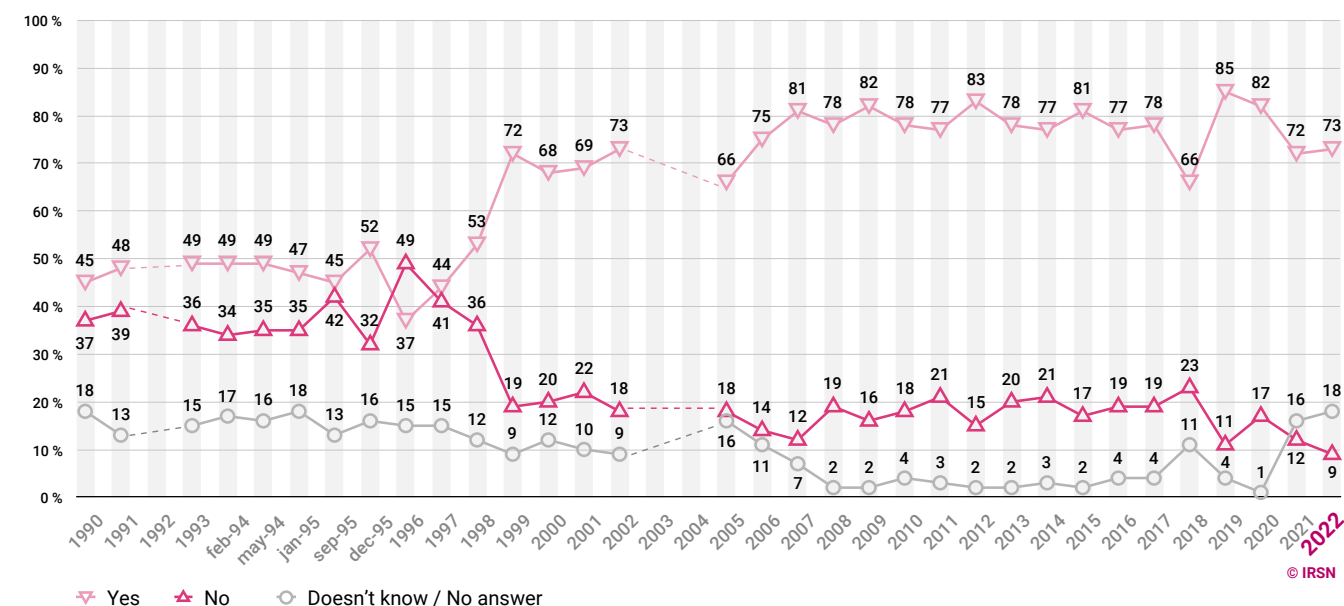
5 - Environmental NGOs*



* In 1998, the title "The environmentalists" was replaced by "Environmental NGOs".

© IRSN

6 - ASN (Nuclear Safety Authority) *



▽ Yes ▲ No ○ Doesn't know / No answer

* In 1999, the wording "Control bodies" was replaced by "Control bodies (Directorate for the safety of nuclear installations, etc.)". In 2002, it was replaced by "The control bodies (Directorate General of Nuclear Safety and Radiation Protection)"; in 2006, by "The control bodies (Nuclear Safety Authority, etc.)"; in 2019 by "The Nuclear Safety Authority".

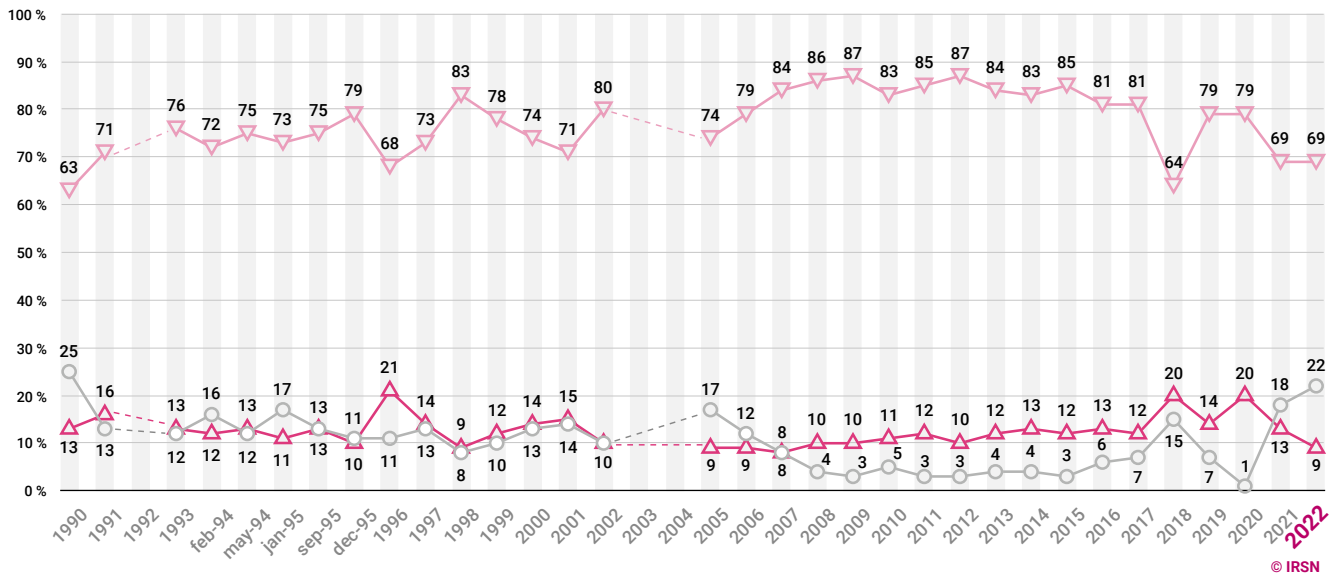
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QUESTION No. 13 (CONT.)

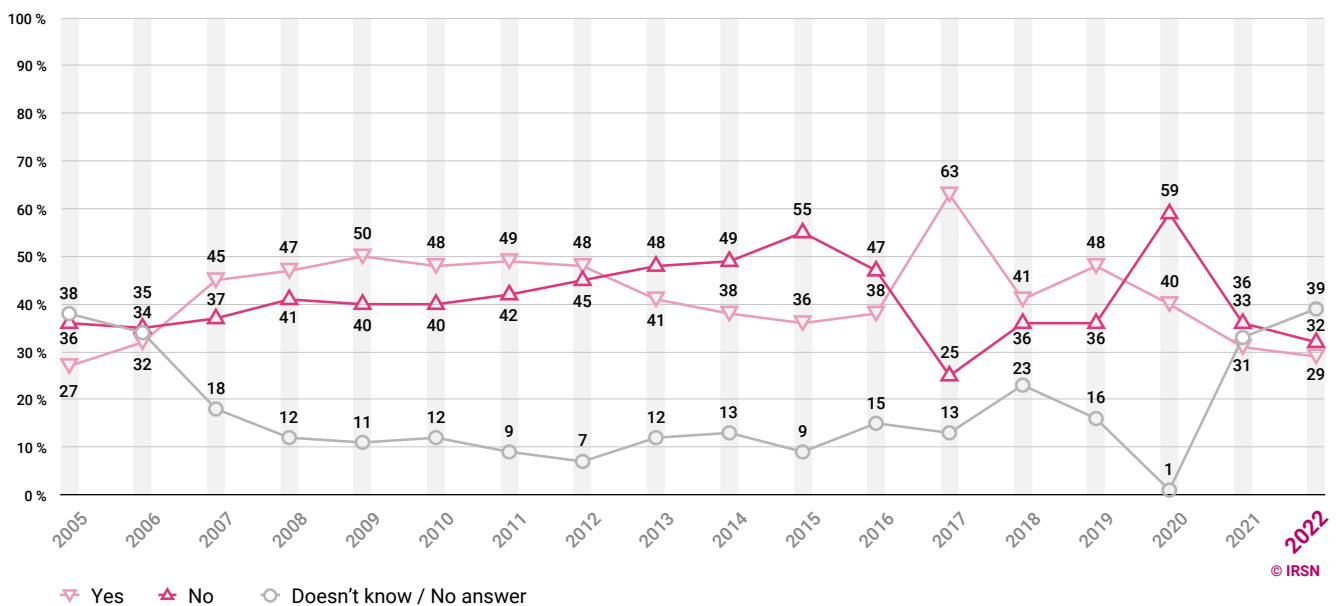
In the field of nuclear industry and energy do you think the following actors and organizations are technically competent?

→ EVOLUTION OF THE RESULTS 1990-2022 (IN %)

7 - CEA (Atomic energy commission)



8 - The CLI (Local Information Commissions)

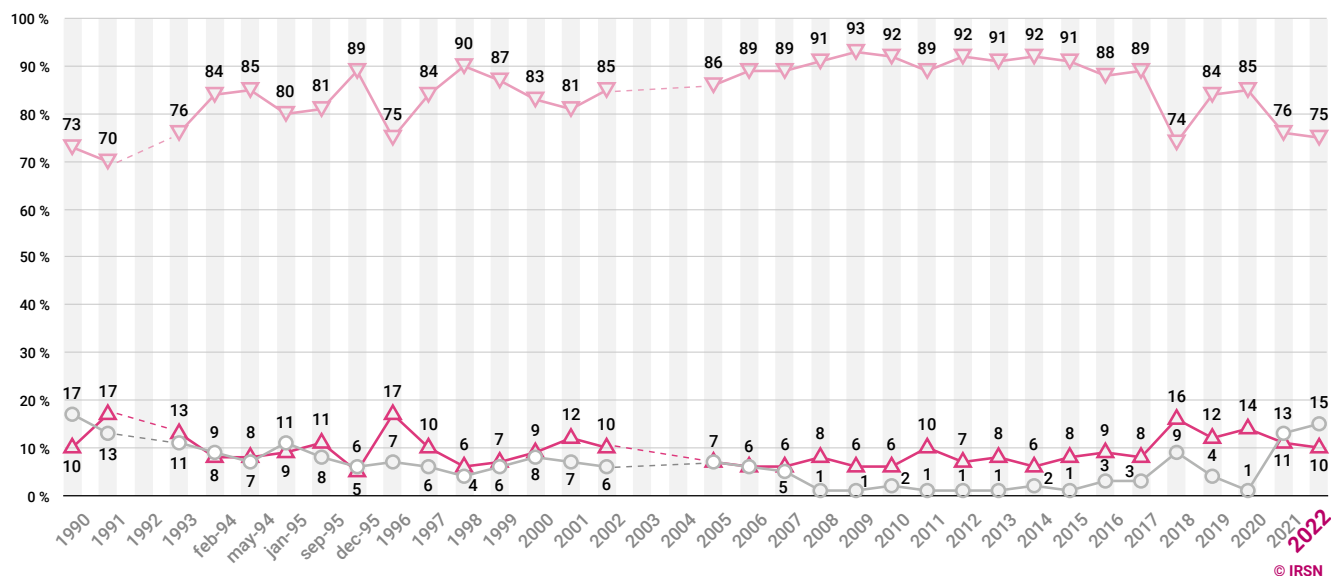


QUESTION No. 13 (CONT.)

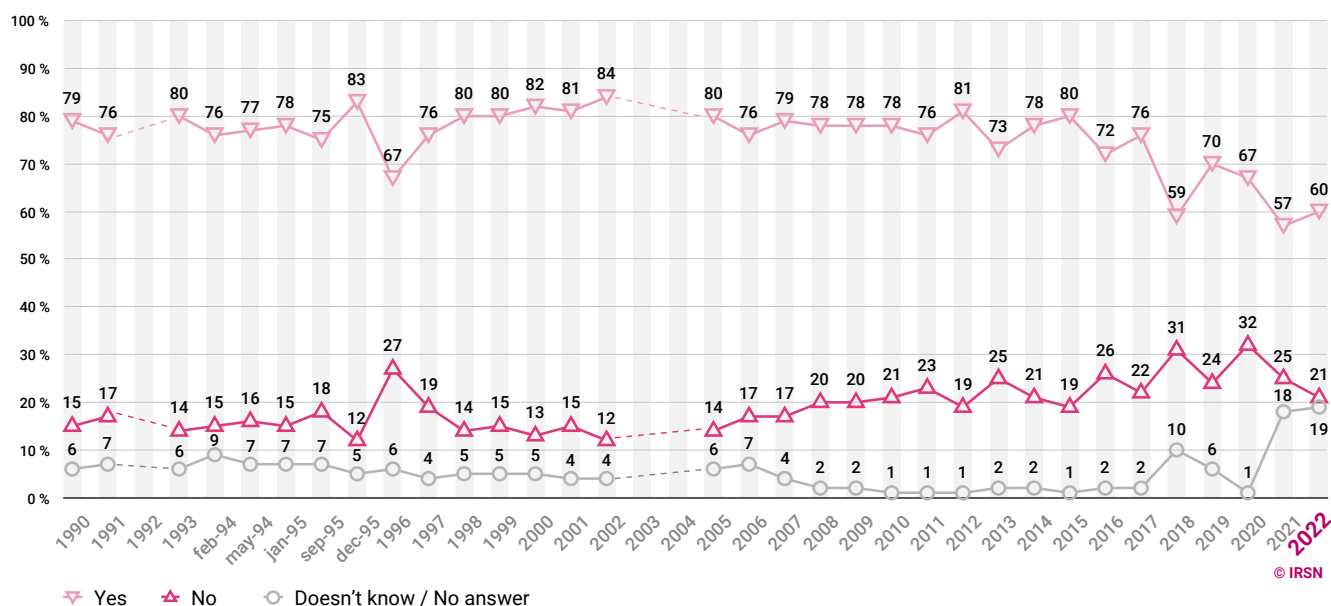
In the field of nuclear industry and energy do you think the following actors and organizations are technically competent?

→ EVOLUTION OF THE RESULTS 1990-2022 (IN %)

9 - The CNRS (National Center for Scientific Research)



10 - EDF

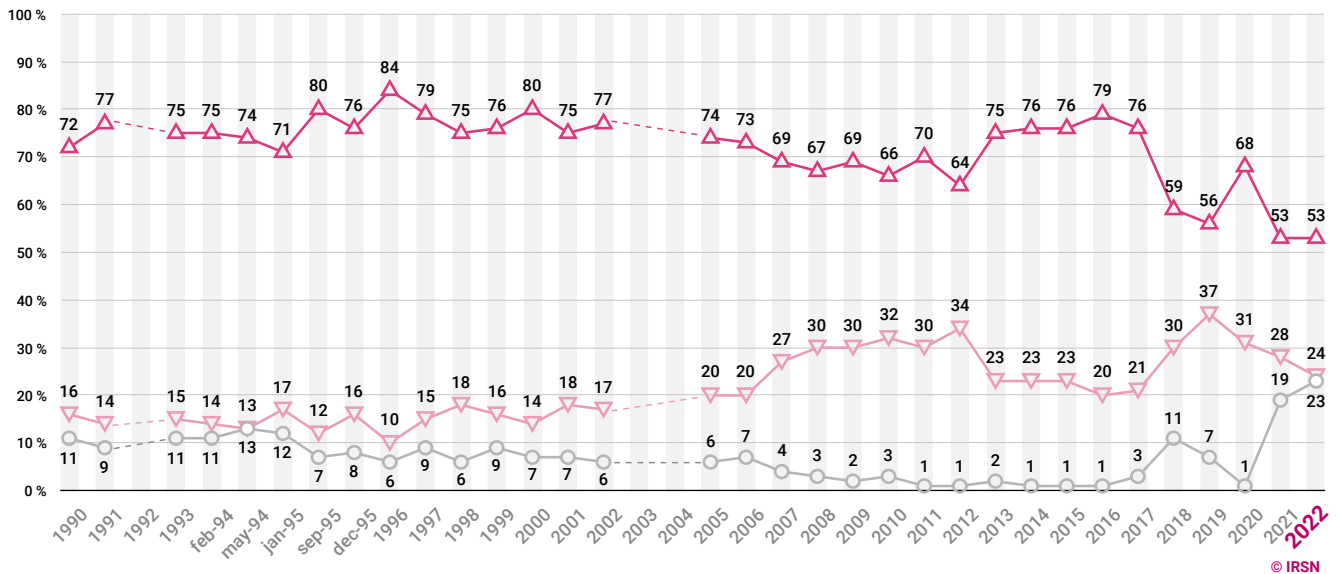


QUESTION No. 13 (CONT.)

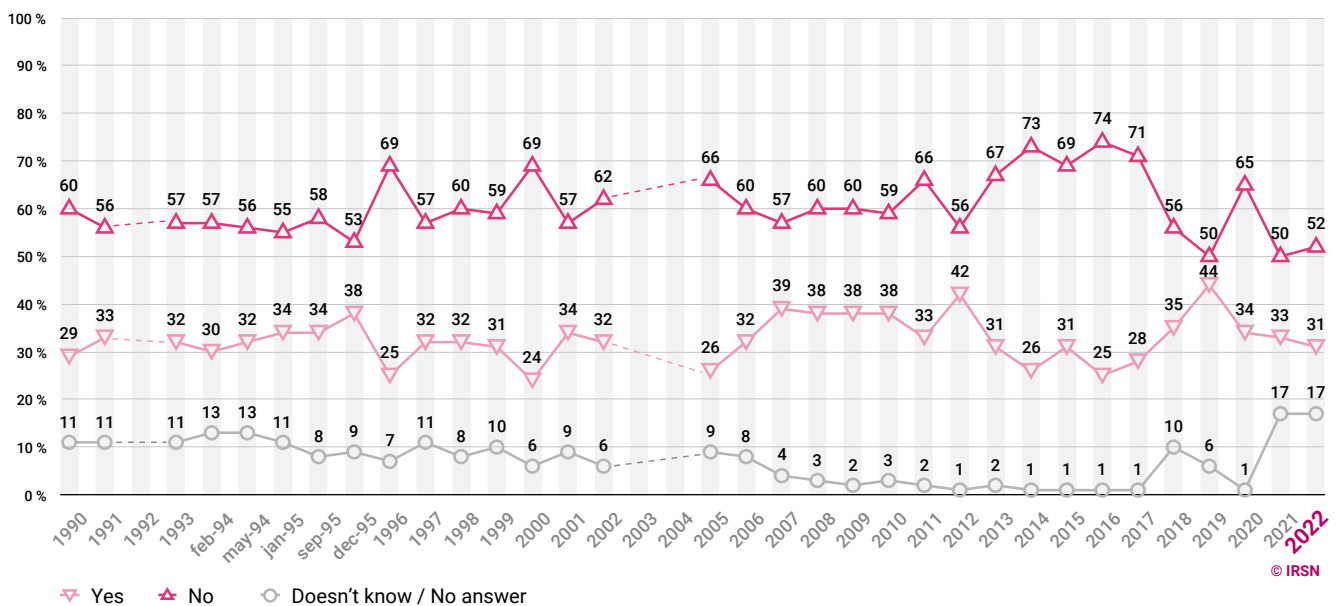
In the field of nuclear industry and energy do you think the following actors and organizations are technically competent?

→ EVOLUTION OF THE RESULTS 1990-2022 (IN %)

11 - Local elected officials



12 - The government

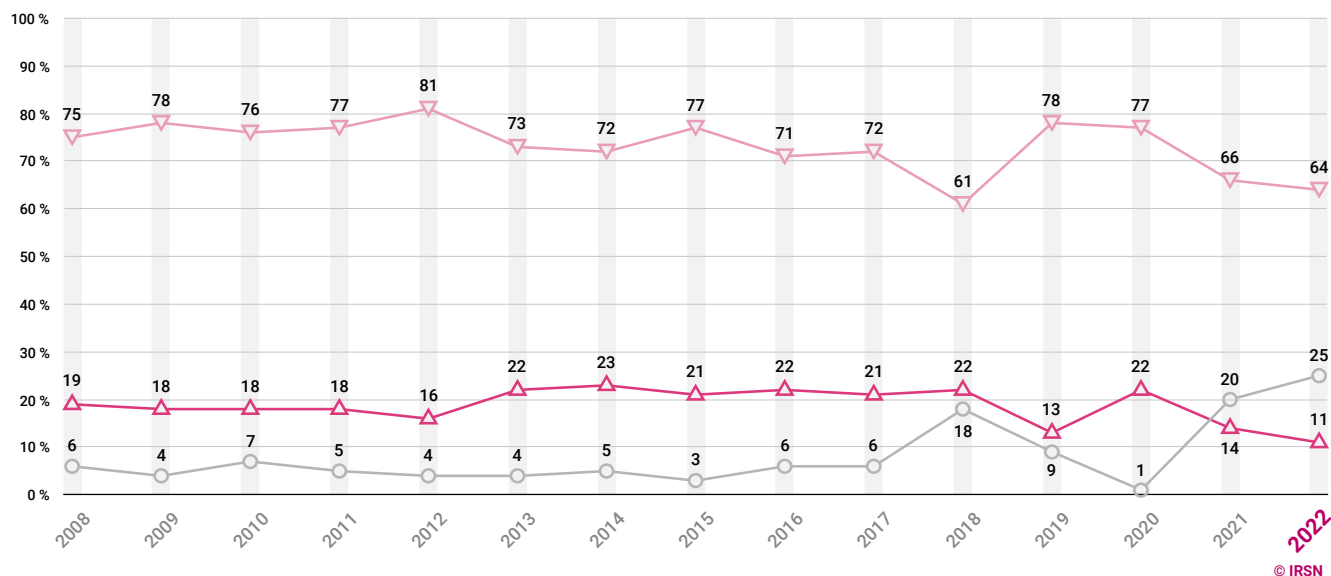


QUESTION No. 13 (CONT.)

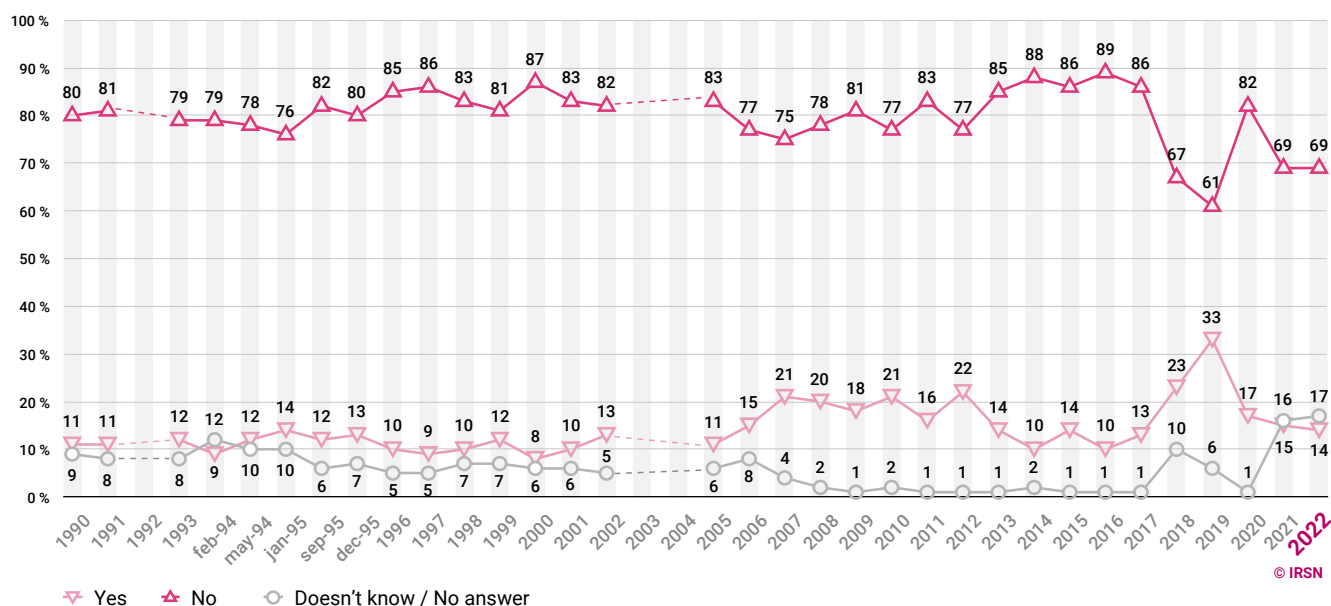
In the field of nuclear industry and energy do you think the following actors and organizations are technically competent?

→ EVOLUTION OF THE RESULTS 1990-2022 (IN %)

13 - The HCTISN (High committee for transparency and information on nuclear security)



14 - Politicians

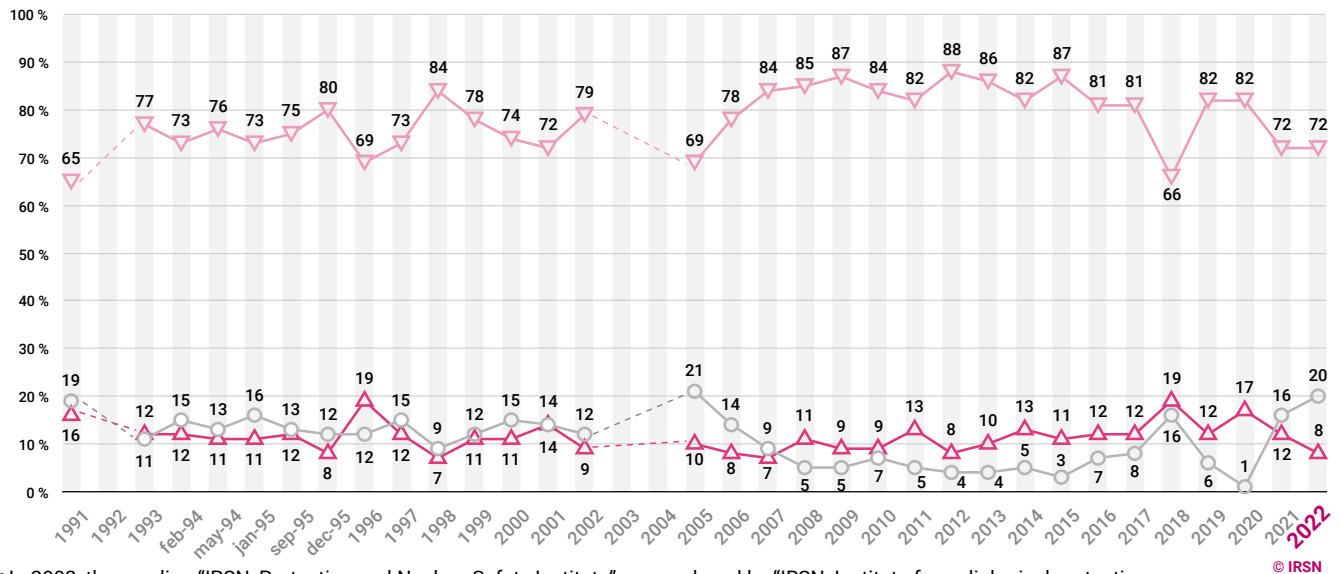


QUESTION No. 13 (CONT.)

In the field of nuclear industry and energy do you think the following actors and organizations are technically competent?

→ EVOLUTION OF THE RESULTS 1990-2022 (IN %)

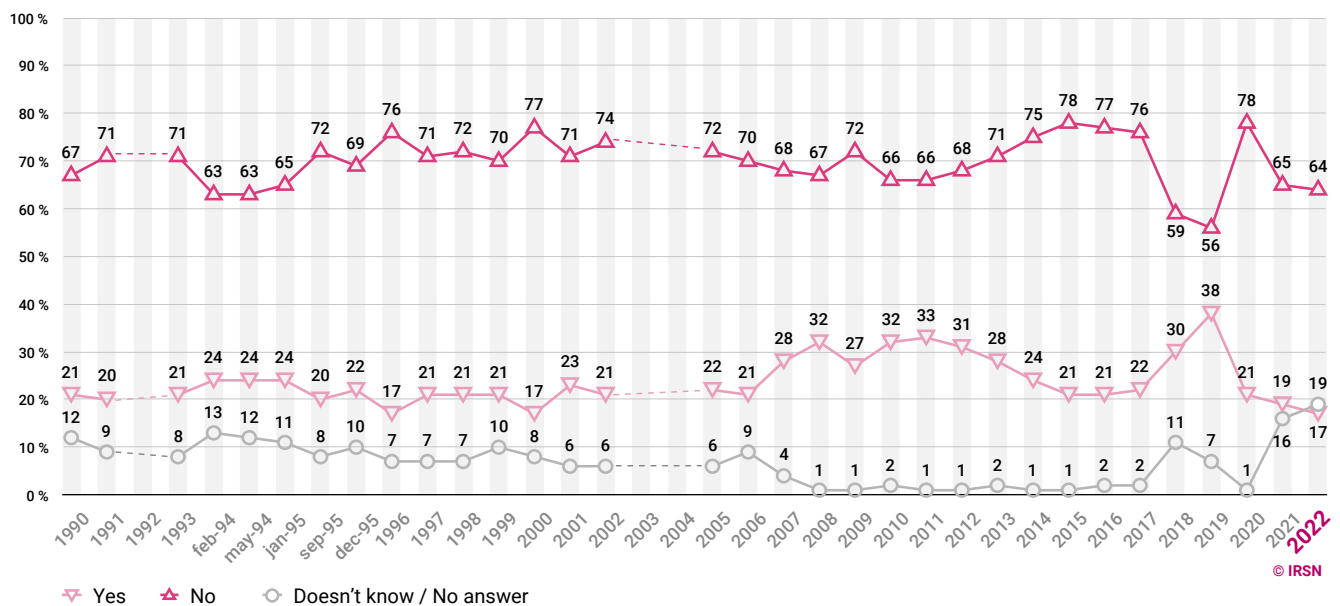
15 - IRSN (Institute for Radiological Protection and Nuclear Safety)*



* In 2002, the wording "IPSN, Protection and Nuclear Safety Institute" was replaced by "IRSN, Institute for radiological protection and nuclear safety".

© IRSN

16 - Journalists



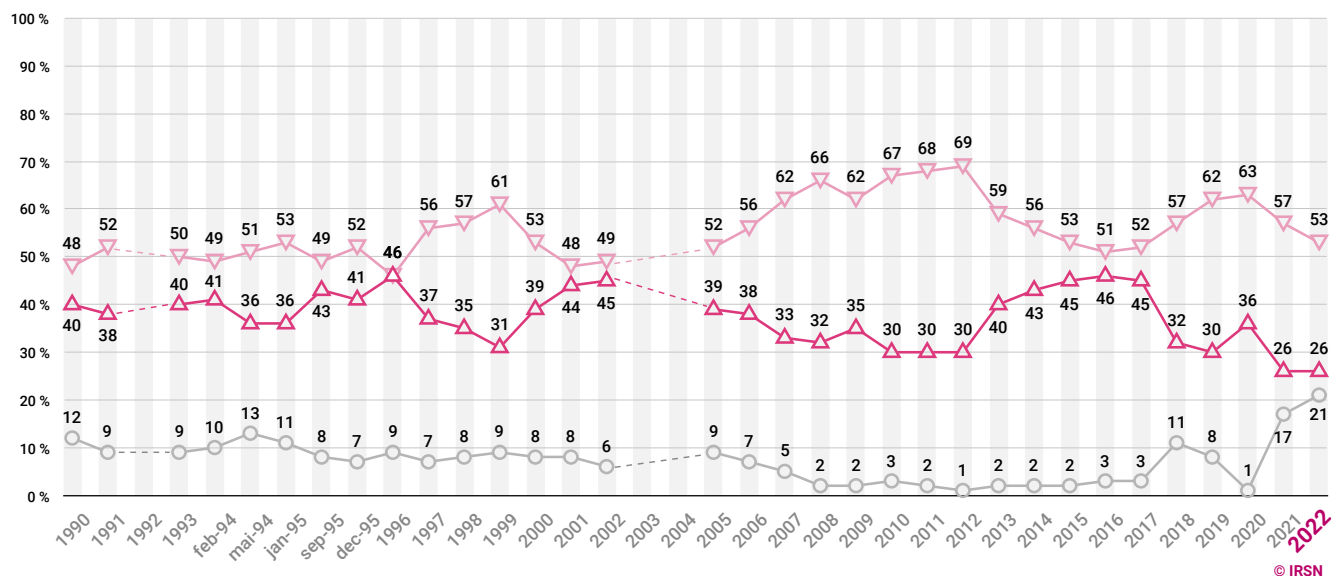
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QUESTION No. 13 (CONT.)

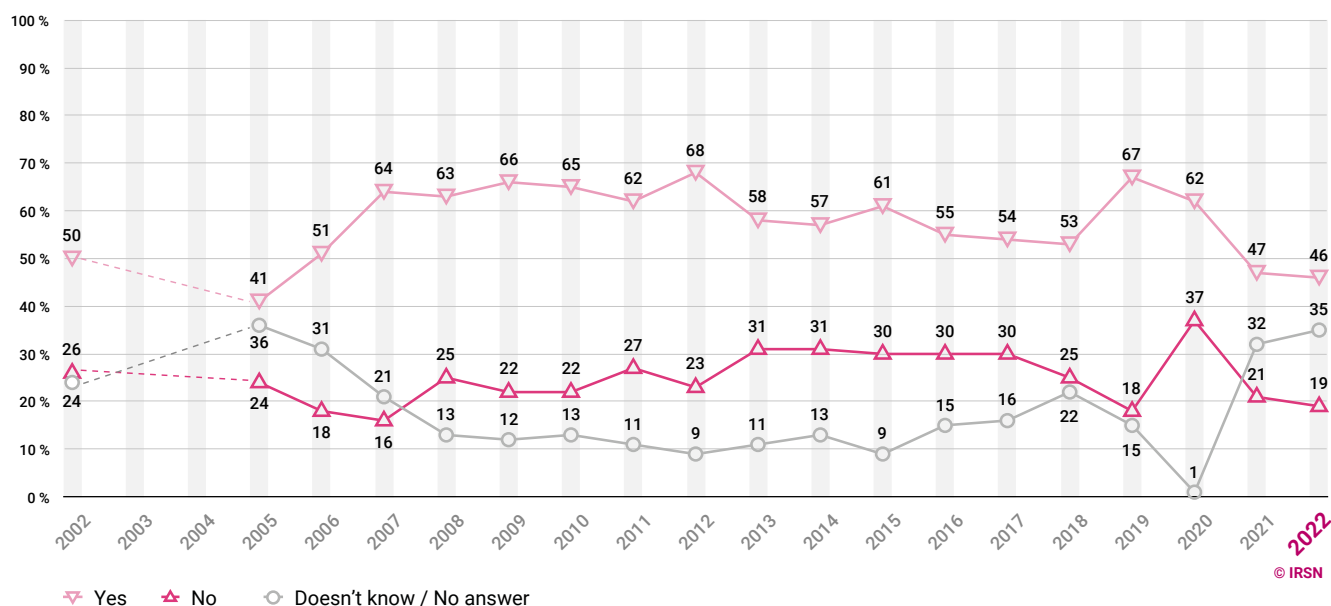
In the field of nuclear industry and energy do you think the following actors and organizations are technically competent?

→ EVOLUTION OF THE RESULTS 1990-2022 (IN %)

17 - Physicians



18 - OPECST (Parliamentary Office for the Evaluation of Scientific and Technological Choices)

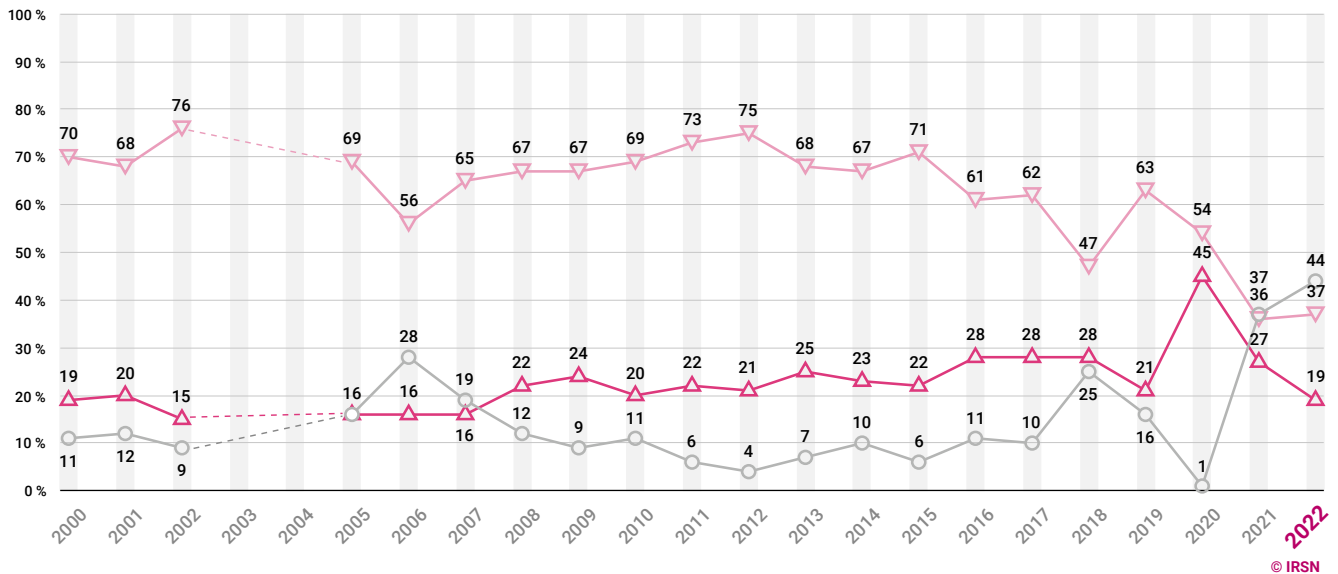


QUESTION No. 13 (CONT.)

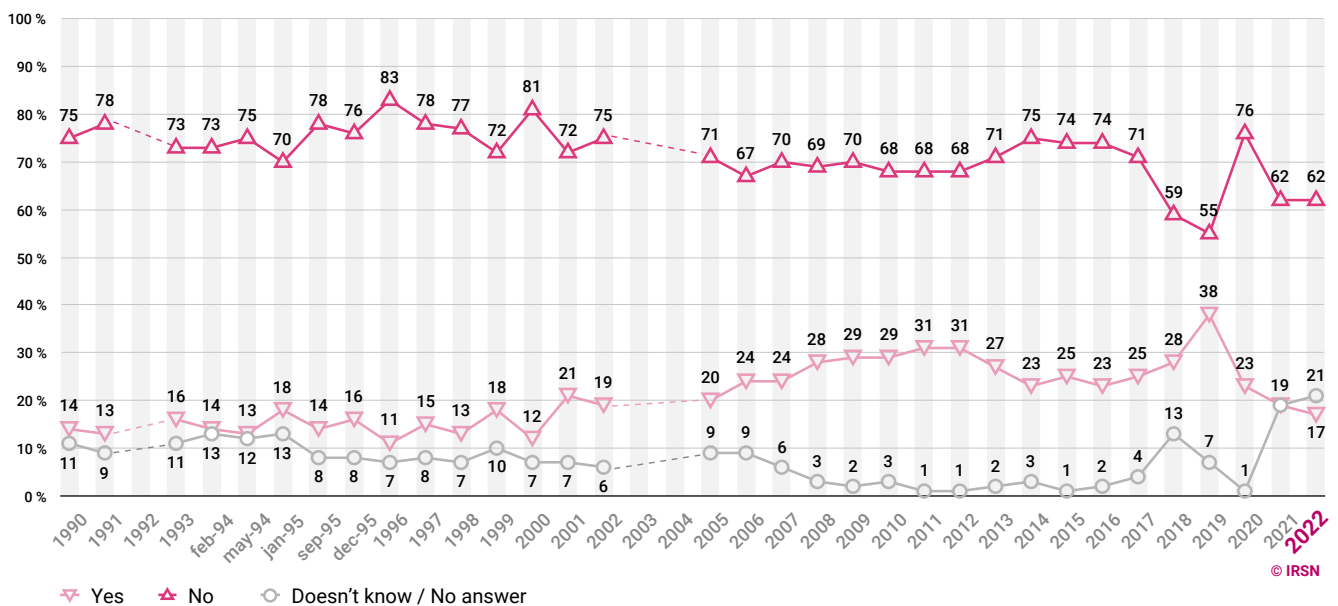
In the field of nuclear industry and energy do you think the following actors and organizations are technically competent?

→ EVOLUTION OF THE RESULTS 1990-2022 (IN %)

19 - ORANO (formerly AREVA)



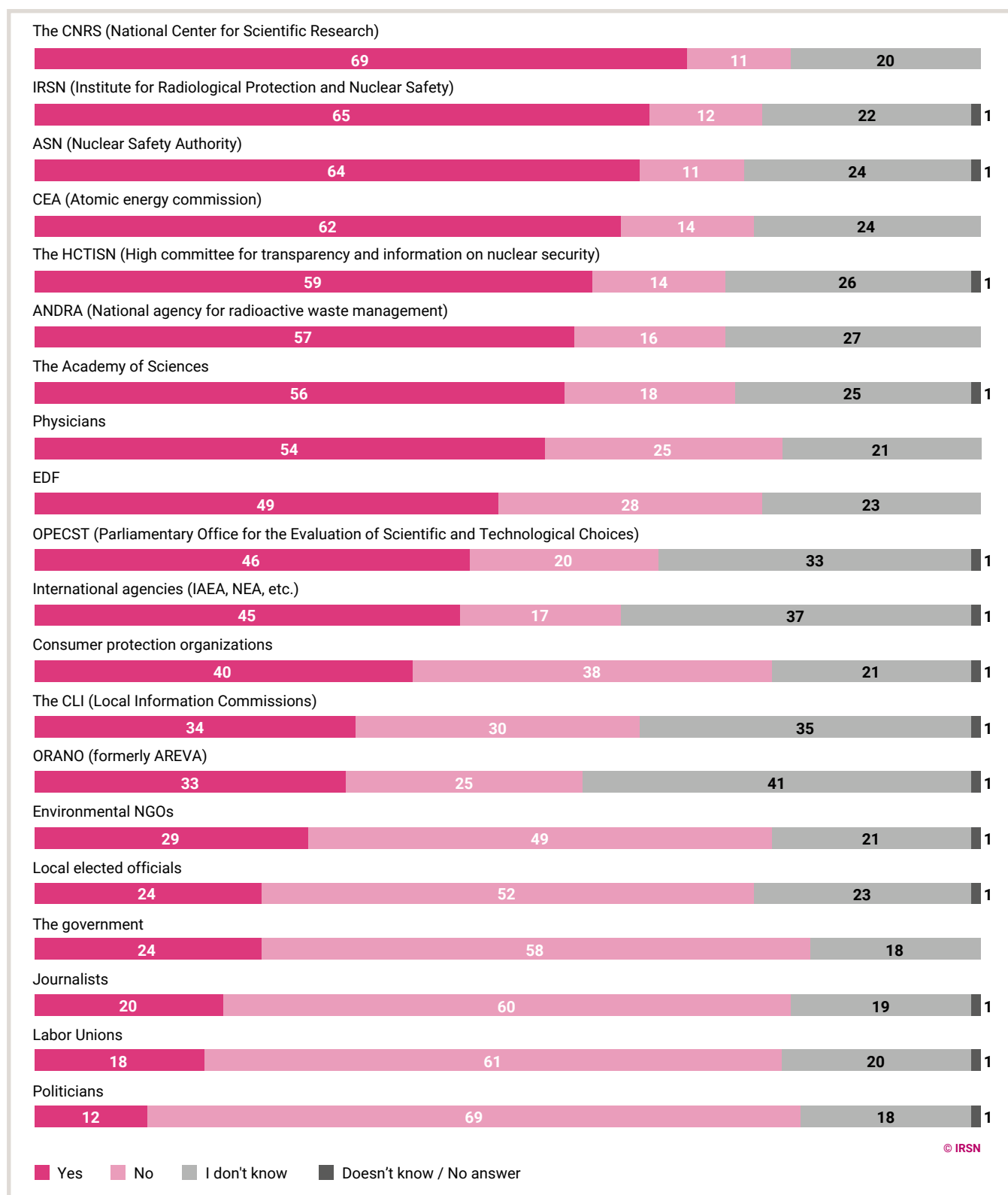
20 - Labor Unions



QUESTION No. 14

In the field of nuclear industry and energy, do you think the following actors and organizations are trustworthy sources of information?

→ NOVEMBER 2022 (IN %)



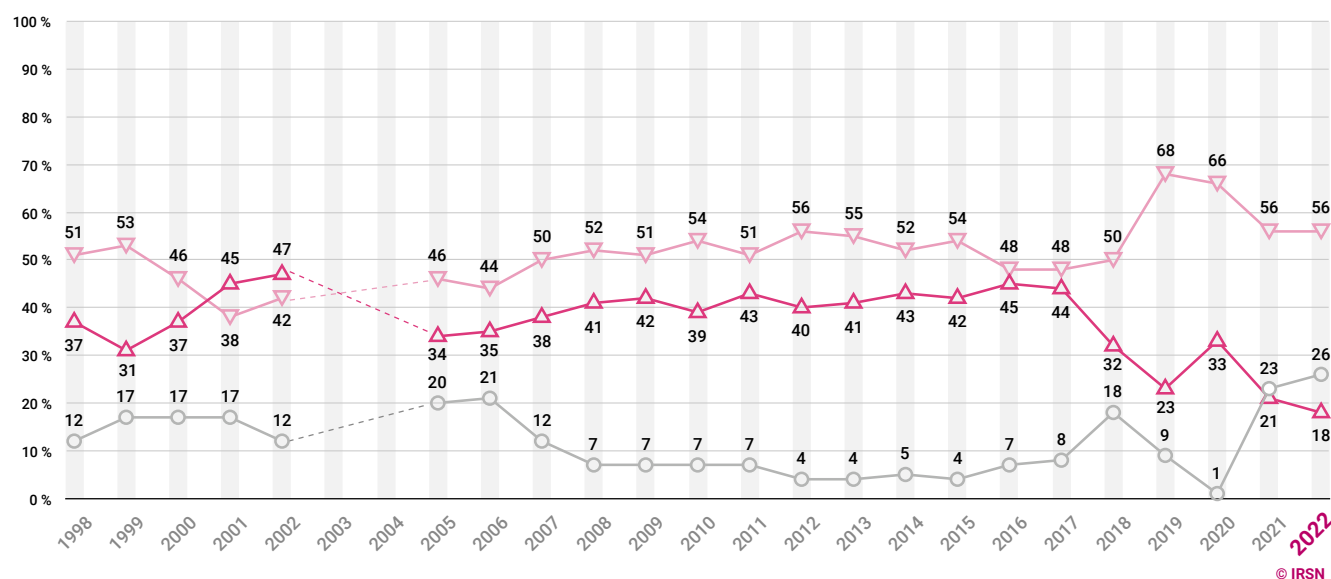
In 2019, the title of the question was changed from "Do the following information sources tell you the truth about nuclear power in France?" to "In the field of industry and nuclear energy, do you think the following actors and organizations are trustworthy sources of information?".

QUESTION No. 14 (CONT.)

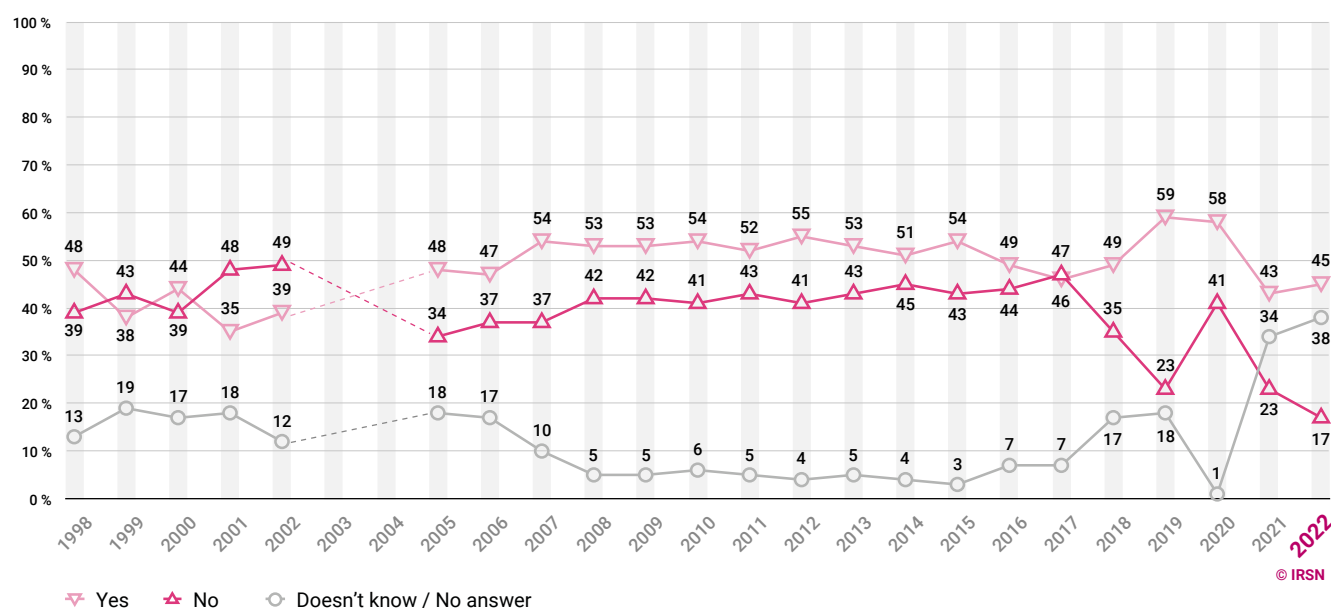
In the field of nuclear industry and energy, do you think the following actors and organizations are trustworthy sources of information?

→ EVOLUTION OF THE RESULTS 1998-2022 (IN %)

1 - The Academy of Sciences



2 - International agencies (IAEA, NEA, etc.)*



* In 1999 (and that year only), the wording "International expert bodies" was replaced by "International bodies". Then, in 2019, it was replaced by "International agencies (IAEA, NEA, etc.)".

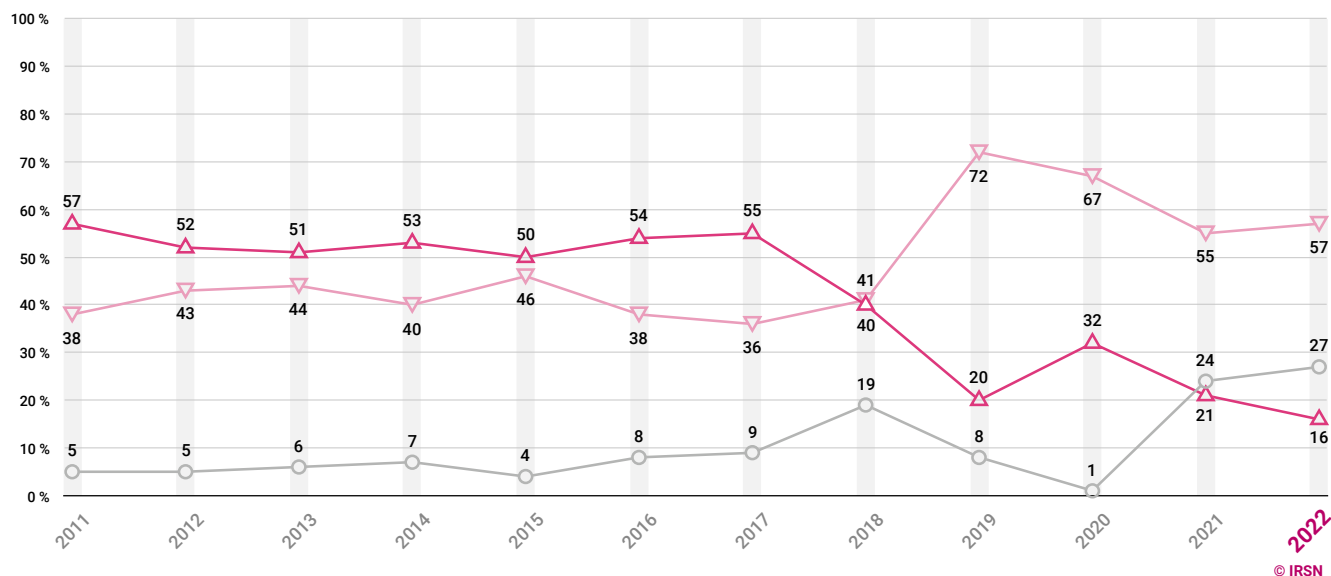
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QUESTION No.14 (CONT.)

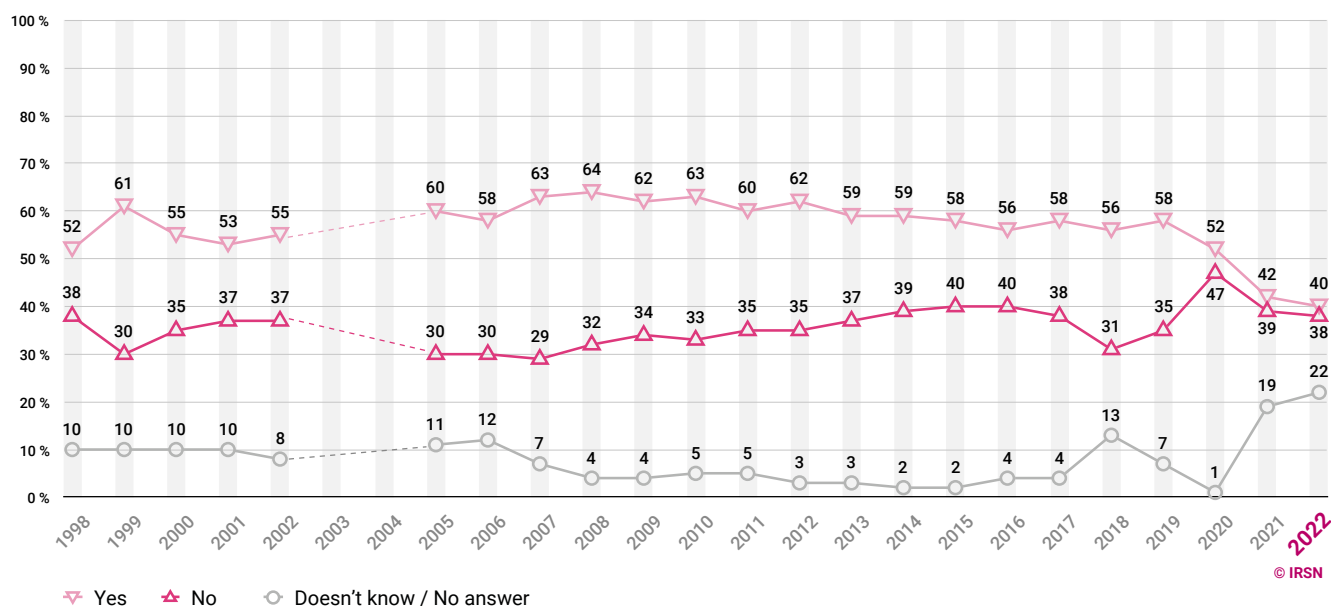
In the field of nuclear industry and energy, do you think the following actors and organizations are trustworthy sources of information?

→ EVOLUTION OF THE RESULTS 1998-2022 (IN %)

3 - ANDRA (National agency for radioactive waste management)



4 - Consumer protection Organizations



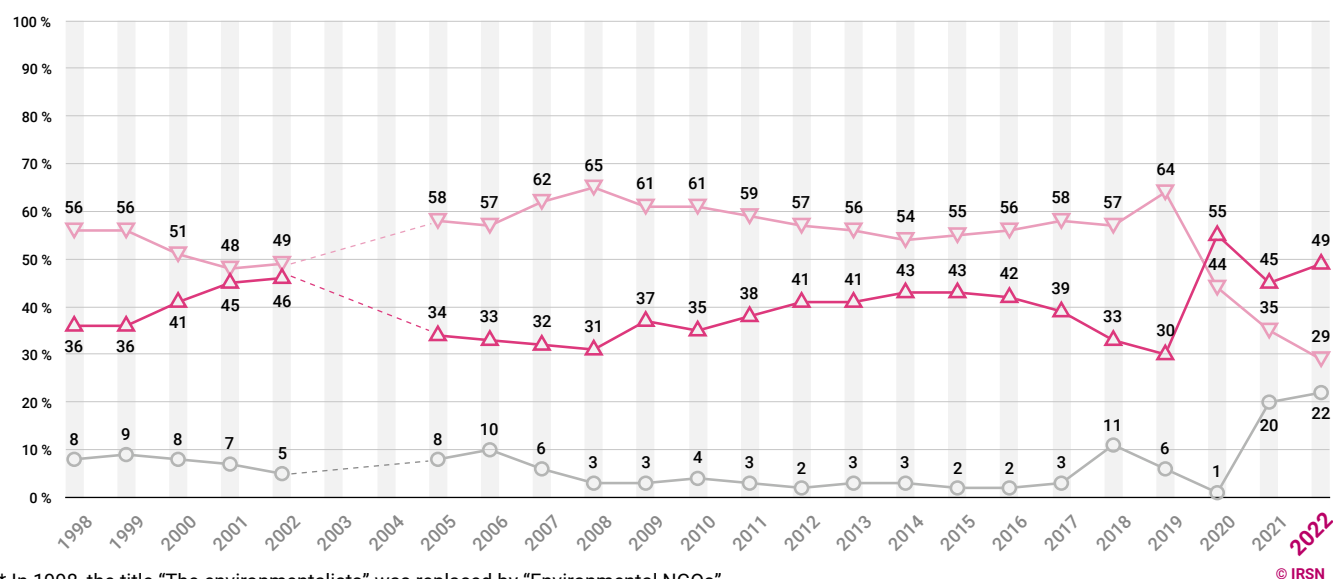
In 2019, the title of the question was changed from "Do the following information sources tell you the truth about nuclear power in France?" to "In the field of industry and nuclear energy, do you think the following actors and organizations are trustworthy sources of information?".

QUESTION No. 14 (CONT.)

In the field of nuclear industry and energy, do you think the following actors and organizations are trustworthy sources of information?

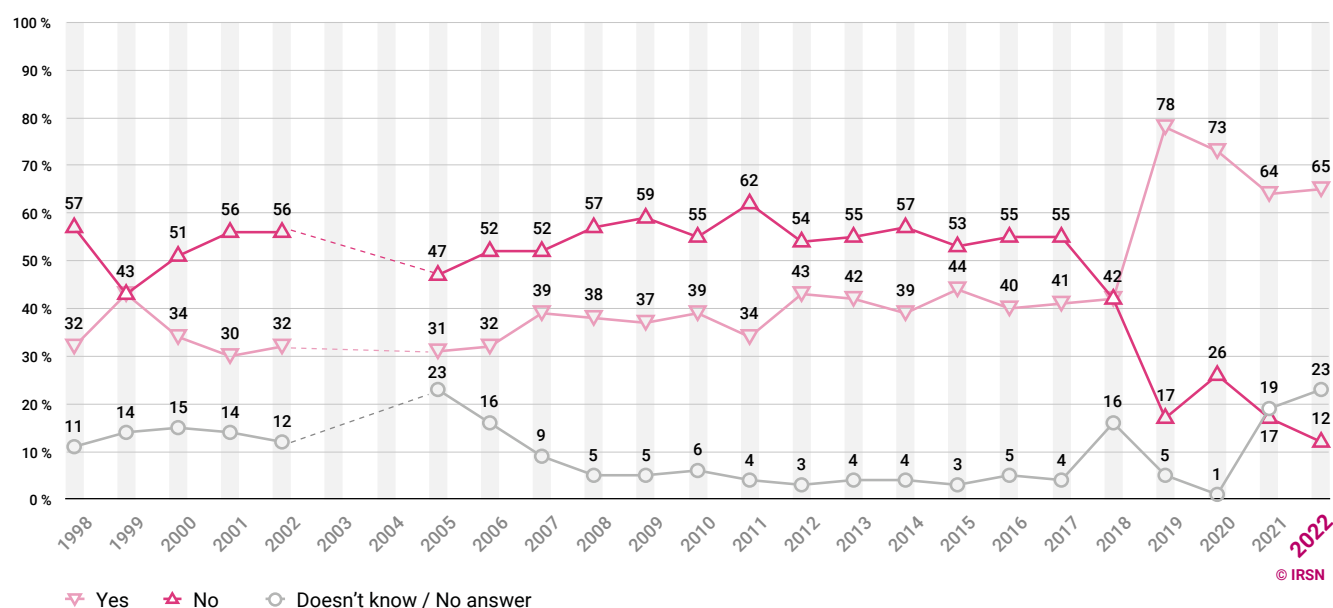
→ EVOLUTION OF THE RESULTS 1998-2022 (IN %)

5 - Environmental NGOs*



* In 1998, the title "The environmentalists" was replaced by "Environmental NGOs".

6 - ASN (Nuclear Safety Authority)*



* In 1999, the wording "Control bodies" was replaced by "Control bodies (Directorate for the safety of nuclear installations, etc.)". In 2002, it was replaced by "The control bodies (Directorate General of Nuclear Safety and Radiation Protection)"; in 2006, by "The control bodies (Nuclear Safety Authority, etc.)"; in 2019 by "The Nuclear Safety Authority".

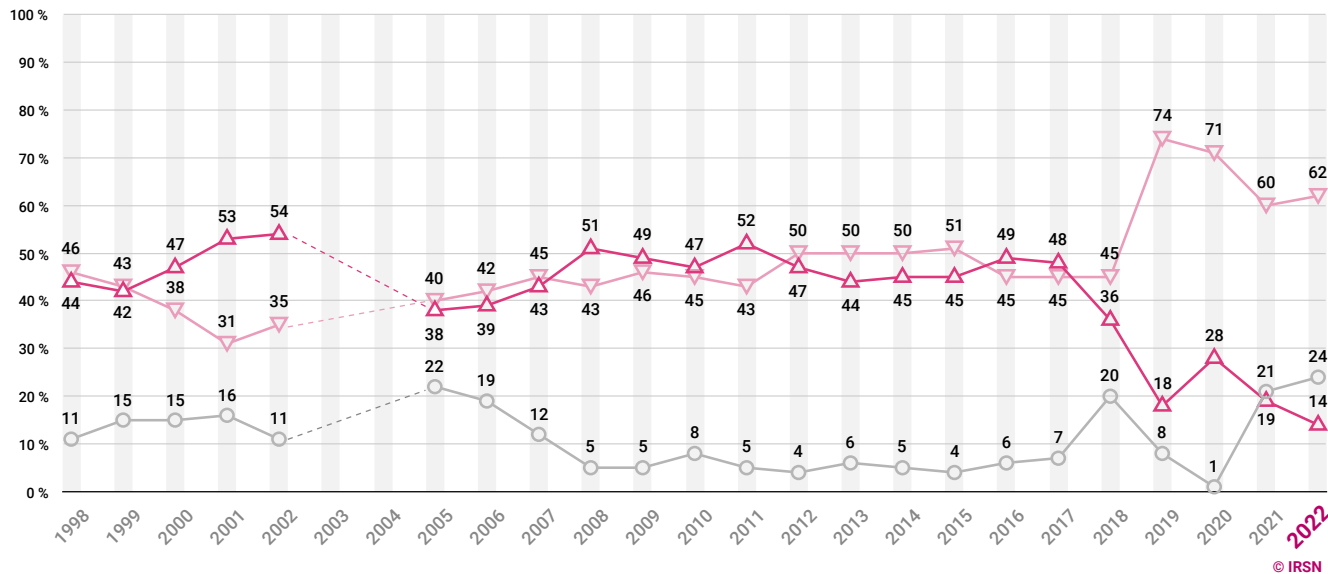
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QUESTION
No.14
(CONT.)

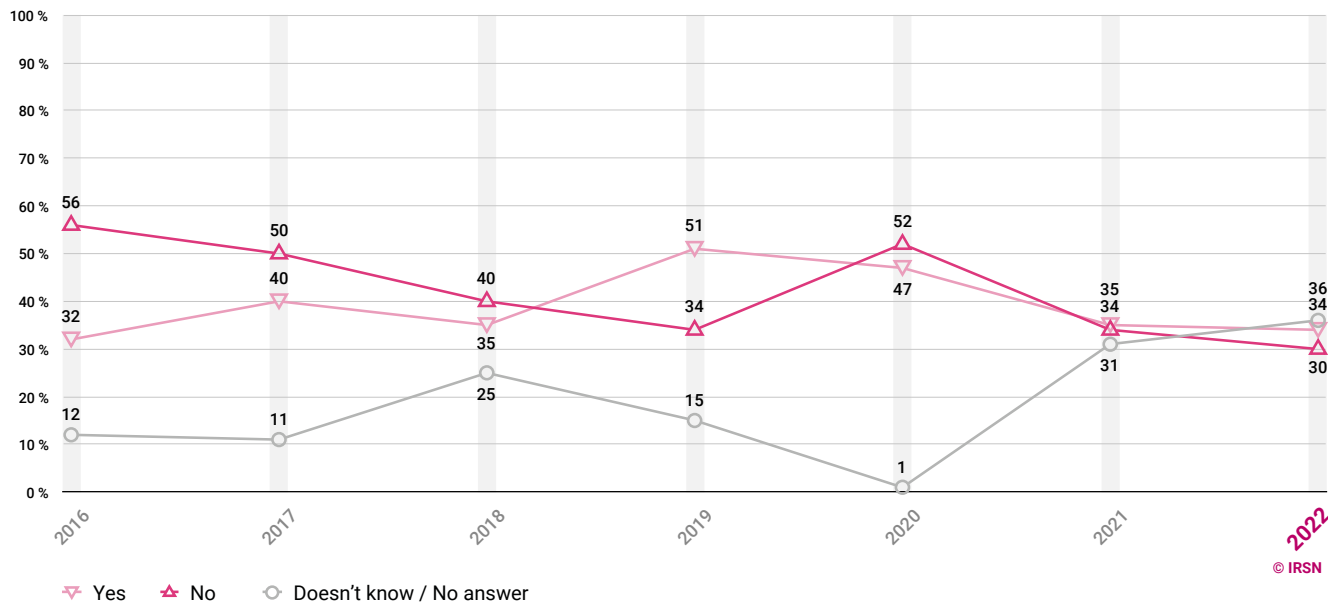
In the field of nuclear industry and energy, do you think the following actors and organizations are trustworthy sources of information?

→ EVOLUTION OF THE RESULTS 1998-2022 (IN %)

7 - CEA (Atomic energy commission)



8 - The CLI (Local Information Commissions)



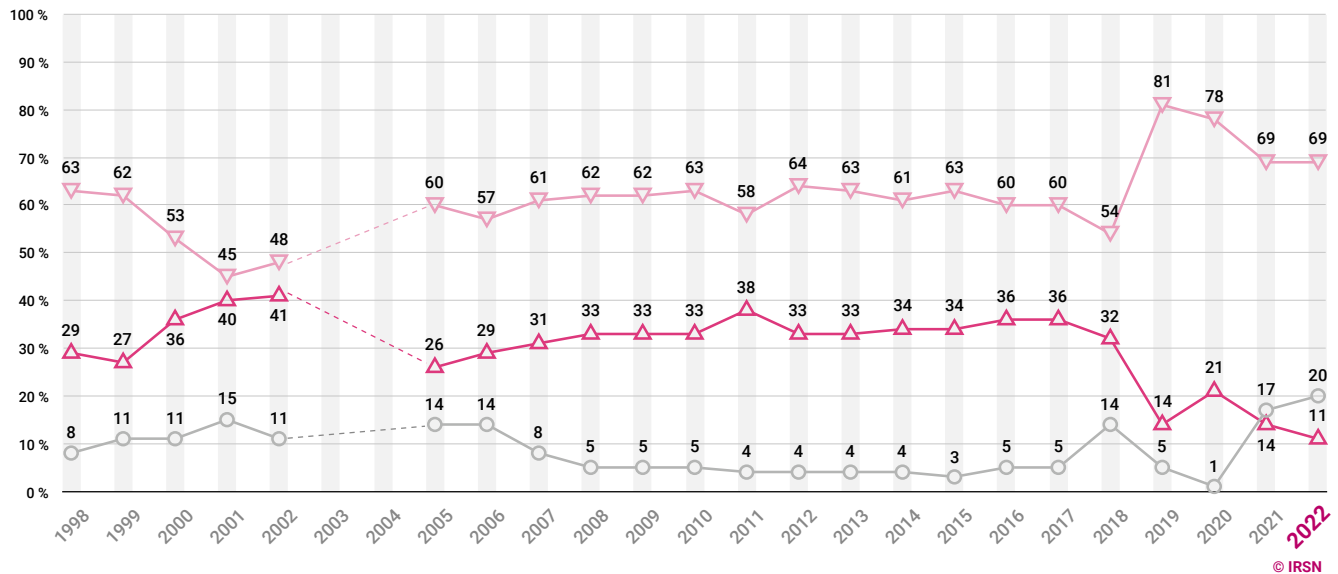
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QUESTION No. 14 (CONT.)

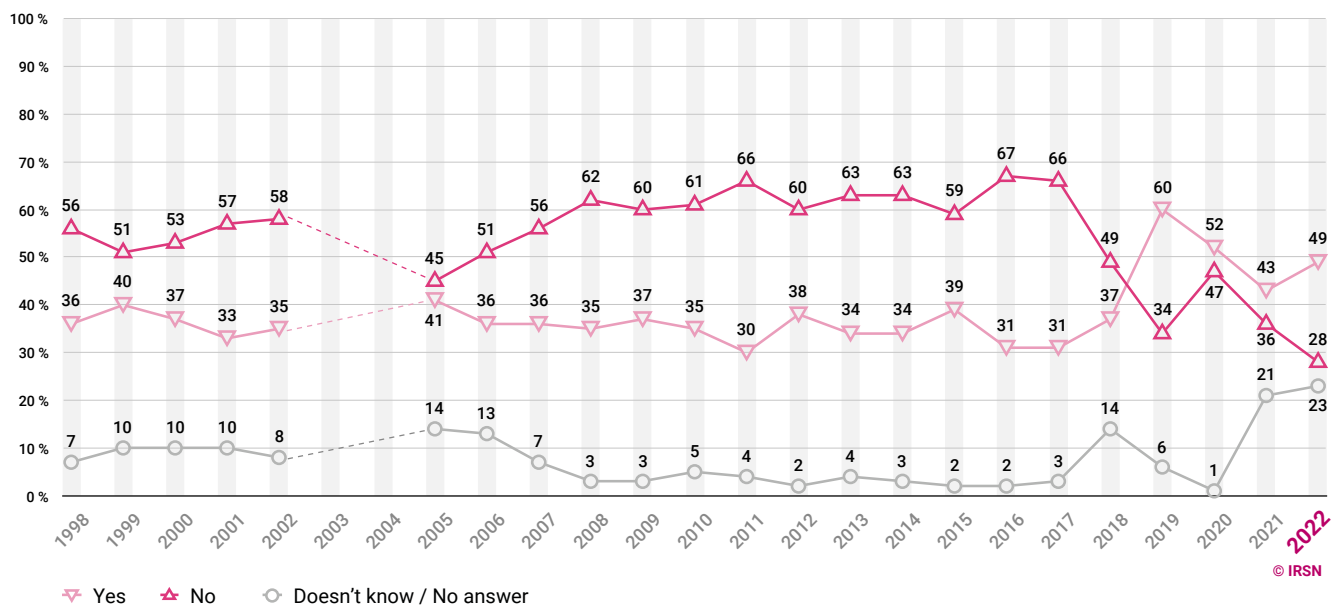
In the field of nuclear industry and energy, do you think the following actors and organizations are trustworthy sources of information?

→ EVOLUTION OF THE RESULTS 1998-2022 (IN %)

9 - The CNRS (National Center for Scientific Research)



10 - EDF



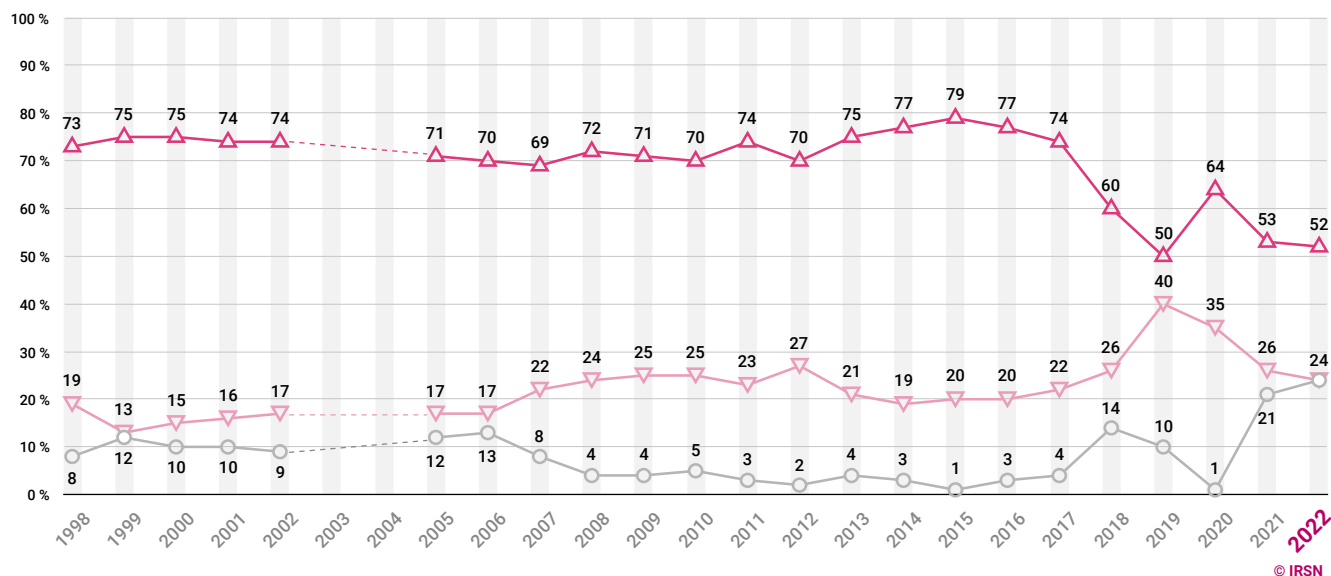
In 2019, the title of the question was changed from "Do the following information sources tell you the truth about nuclear power in France?" to "In the field of industry and nuclear energy, do you think the following actors and organizations are trustworthy sources of information?".

QUESTION No. 14 (CONT.)

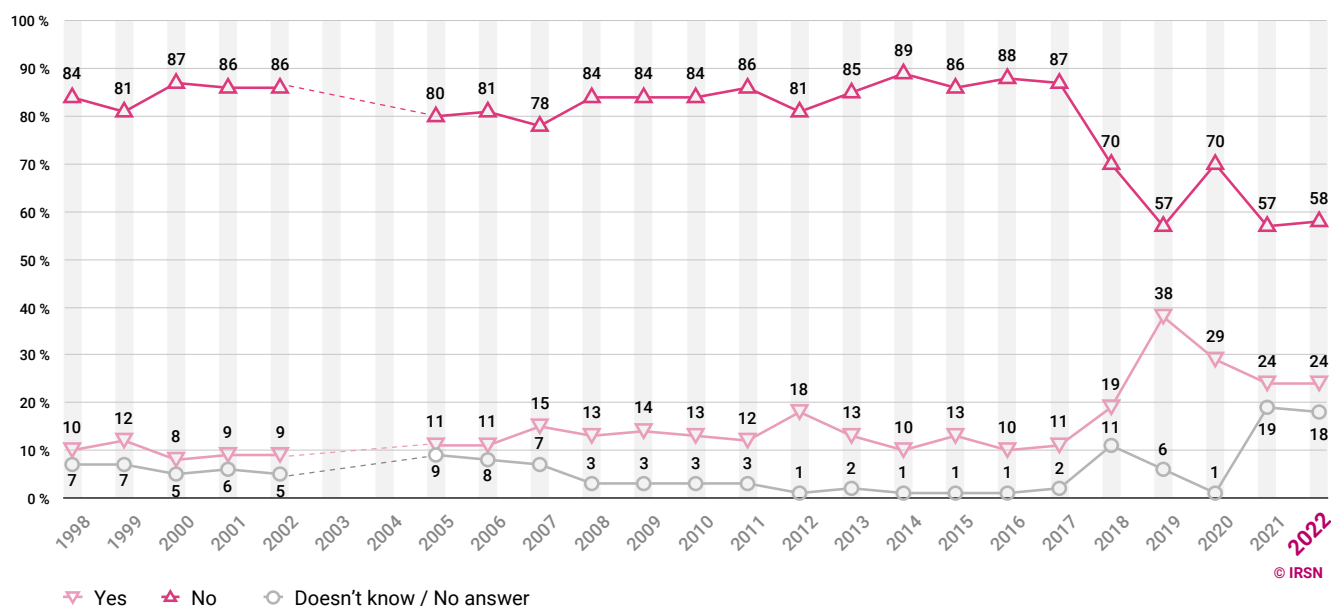
In the field of nuclear industry and energy, do you think the following actors and organizations are trustworthy sources of information?

→ EVOLUTION OF THE RESULTS 1998-2022 (IN %)

11 - Local elected officials



12 - The government



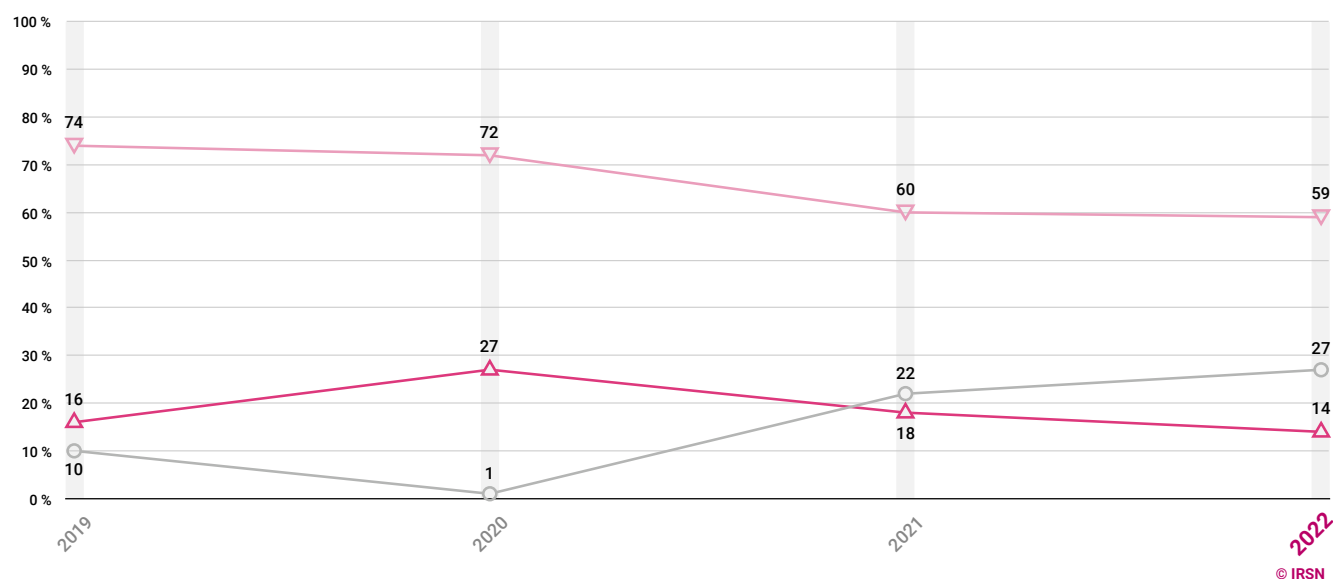
In 2019, the title of the question was changed from "Do the following information sources tell you the truth about nuclear power in France?" to "In the field of industry and nuclear energy, do you think the following actors and organizations are trustworthy sources of information?".

QUESTION No. 14 (CONT.)

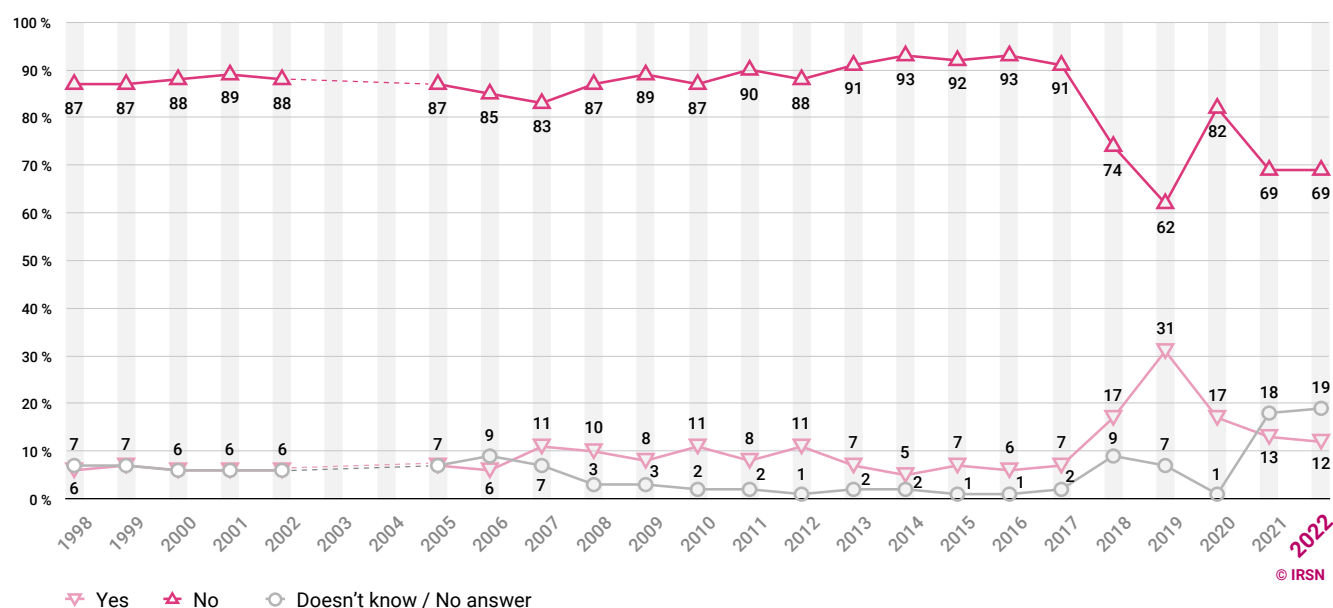
In the field of nuclear industry and energy, do you think the following actors and organizations are trustworthy sources of information?

→ EVOLUTION OF THE RESULTS 1998-2022 (IN %)

13 - The HCTISN (High committee for transparency and information on nuclear security)



14 - Politicians



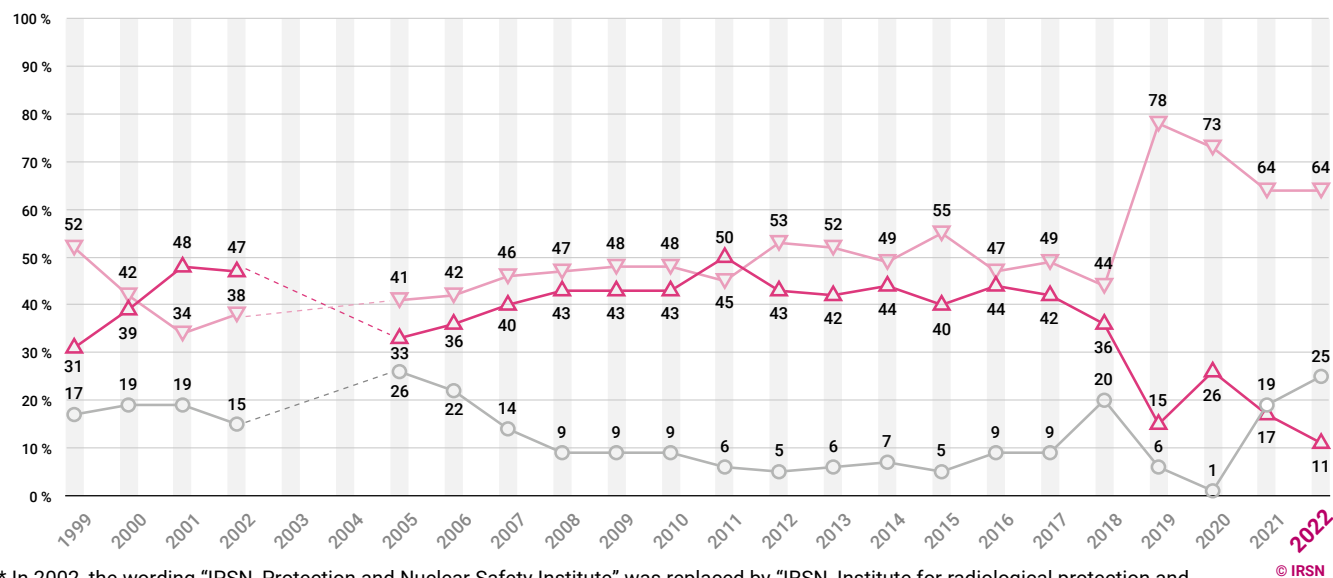
In 1919, the title of the question was changed from "Do the following information sources tell you the truth about nuclear power in France?" to "In the field of industry and nuclear energy, do you think the following actors and organizations are trustworthy sources of information?".

QUESTION No.14 (CONT.)

In the field of nuclear industry and energy, do you think the following actors and organizations are trustworthy sources of information?

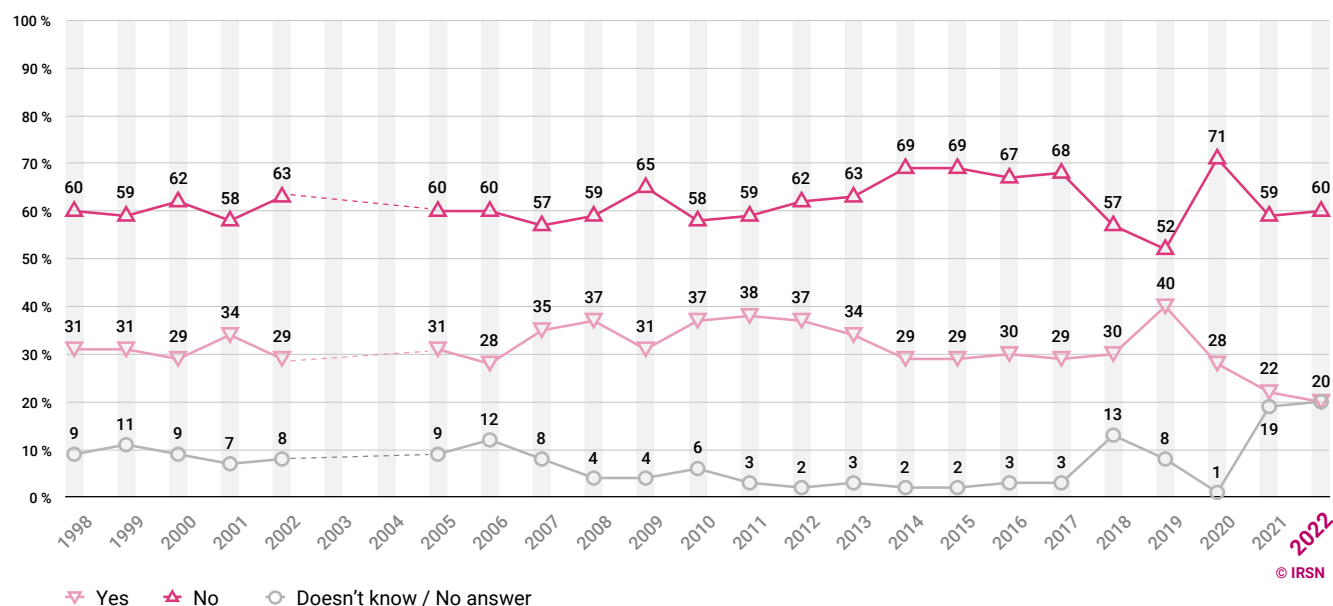
→ EVOLUTION OF THE RESULTS 1998-2022 (IN %)

15 - IRSN (Institute for Radiological Protection and Nuclear Safety)*



* In 2002, the wording "IPSN, Protection and Nuclear Safety Institute" was replaced by "IRSN, Institute for radiological protection and nuclear safety".

16 - Journalists



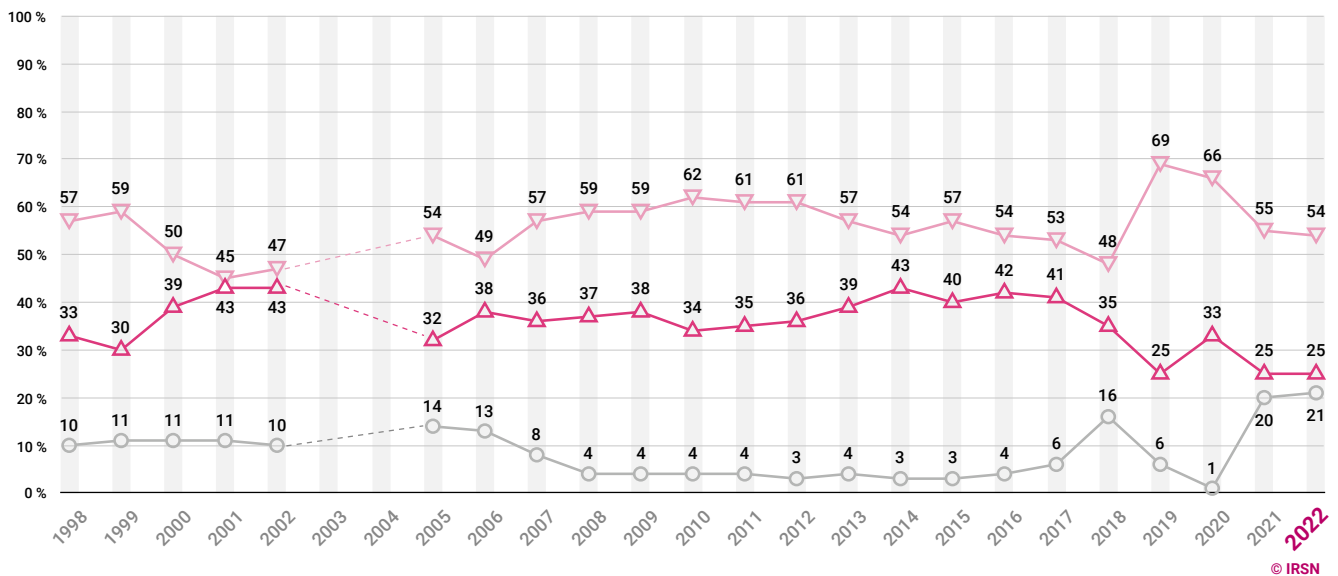
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QUESTION No. 14 (CONT.)

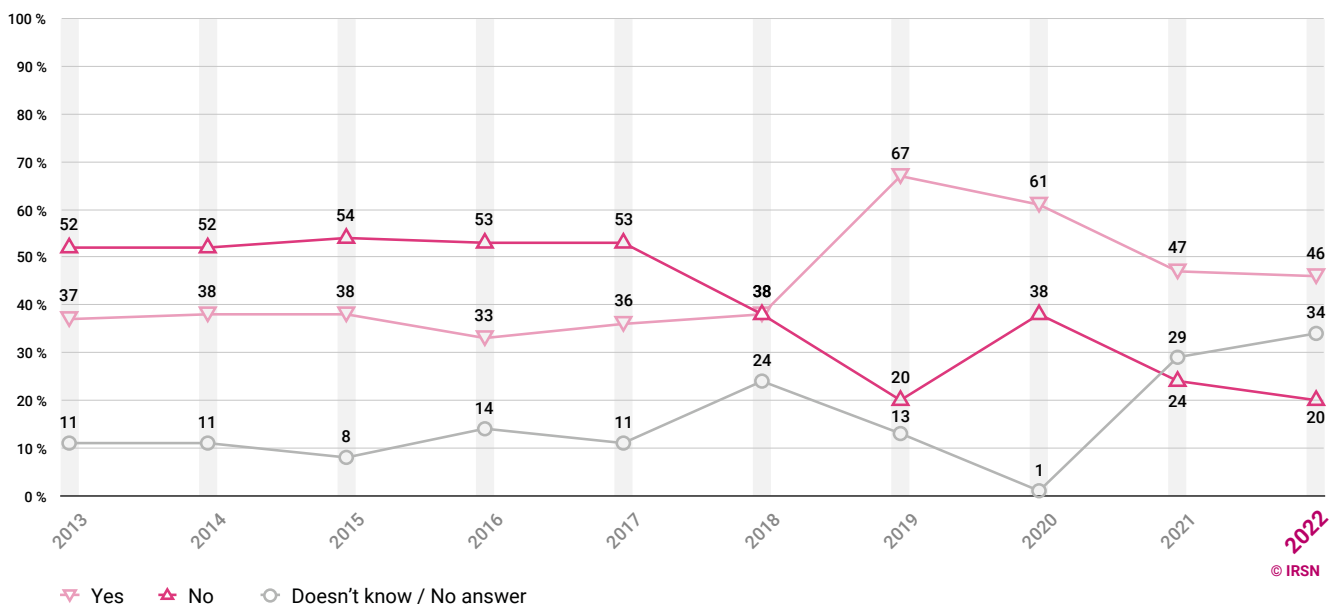
In the field of nuclear industry and energy, do you think the following actors and organizations are trustworthy sources of information?

→ EVOLUTION OF THE RESULTS 1998-2022 (IN %)

17 - Physicians



18 - OPECST (Parliamentary Office for the Evaluation of Scientific and Technological Choices)



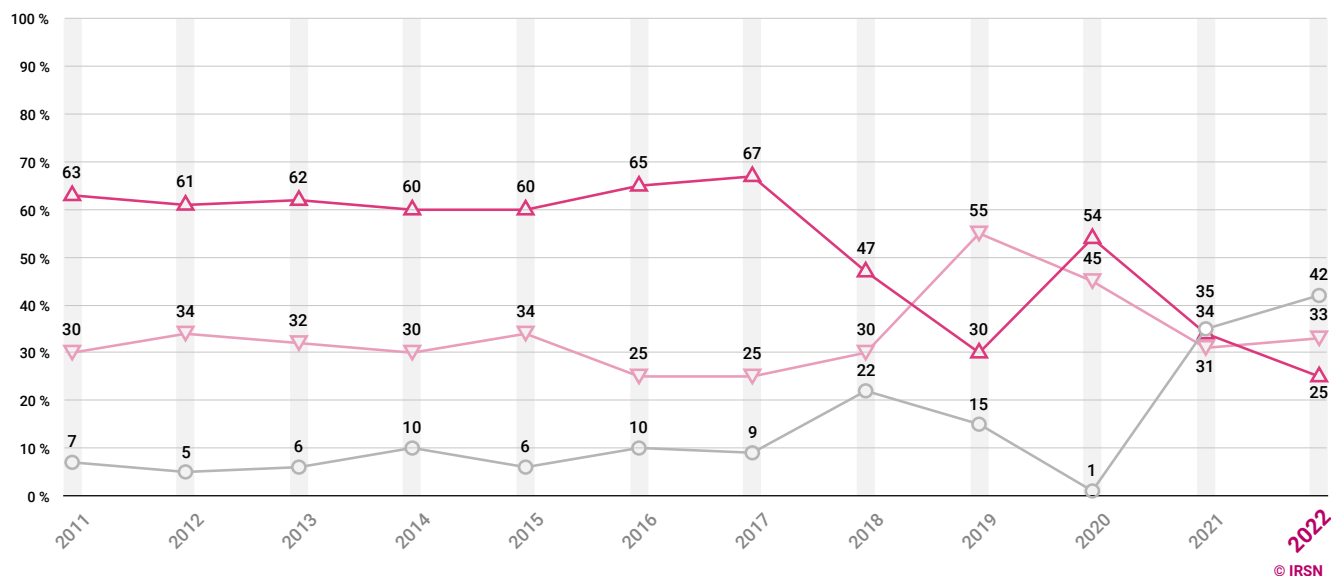
In 2019, the title of the question was changed from "Do the following information sources tell you the truth about nuclear power in France?" to "In the field of industry and nuclear energy, do you think the following actors and organizations are trustworthy sources of information?".

QUESTION No.14 (CONT.)

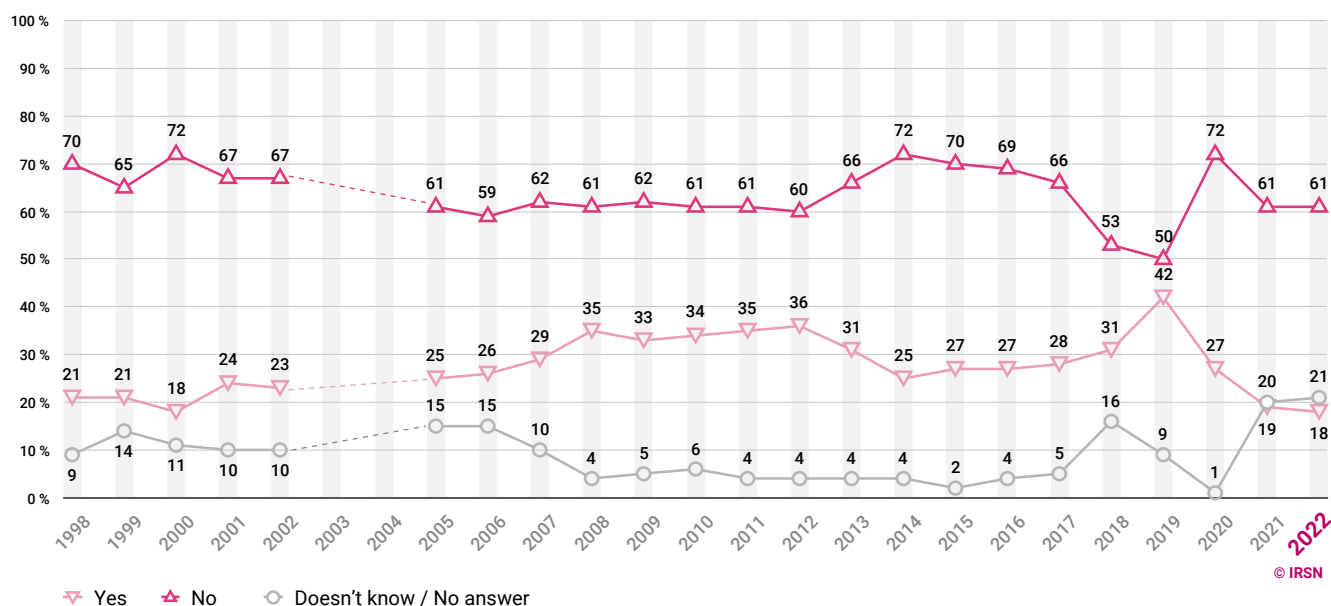
In the field of nuclear industry and energy, do you think the following actors and organizations are trustworthy sources of information?

→ EVOLUTION OF THE RESULTS 1998-2022 (IN %)

19 - ORANO (formerly AREVA)



20 - Labor Unions



In 2019, the title of the question was changed from "Do the following information sources tell you the truth about nuclear power in France?" to "In the field of industry and nuclear energy, do you think the following actors and organizations are trustworthy sources of information?".

QUESTION No. 13

In the field of nuclear industry and energy do you think the following actors and organizations are technically competent?

	Yes	No	I don't know	Doesn't know/No answer
The CNRS (National Center for Scientific Research)	75	10	15	0
ASN (Nuclear Safety Authority)	73	9	17	1
IRSN (Institute for Radiological Protection and Nuclear Safety)	72	8	20	0
CEA (Atomic energy commission)	69	9	22	0
ANDRA (National agency for radioactive waste management)	65	11	24	0
The HCTISN (High committee for transparency and information on nuclear security)	64	11	24	1
EDF	60	21	18	1
The Academy of Sciences	56	18	25	1
Physicians	53	26	21	0
OPECST (Parliamentary Office for the Evaluation of Scientific and Technological Choices)	46	19	35	0
International agencies (IAEA, NEA, etc.)	45	15	39	1
ORANO (formerly AREVA)	37	19	43	1
Consumer protection organizations	33	44	23	0
Environmental NGOs	32	47	20	1
The government	31	52	17	0
The CLI (Local Information Commissions)	29	32	39	0
Local elected officials	24	53	22	1
Labor Unions	17	62	20	1
Journalists	17	64	19	0
Politicians	14	69	17	0

QUESTION No. 14

In the field of nuclear industry and energy, do you think the following actors and organizations are trustworthy sources of information?

	Yes	No	I don't know	Doesn't know/No answer
The CNRS (National Center for Scientific Research)	69	11	20	0
ASN (Nuclear Safety Authority)	65	12	22	1
IRSN (Institute for Radiological Protection and Nuclear Safety)	64	11	24	1
CEA (Atomic energy commission)	62	14	24	0
The HCTISN (High committee for transparency and information on nuclear security)	59	14	26	1
ANDRA (National agency for radioactive waste management)	57	16	27	0
The Academy of Sciences	56	18	25	1
Physicians	54	25	21	0
EDF	49	28	23	0
OPECST (Parliamentary Office for the Evaluation of Scientific and Technological Choices)	46	20	33	1
International agencies (IAEA, NEA, etc.)	45	17	37	1
Consumer protection organizations	40	38	21	1
The CLI (Local Information Commissions)	34	30	35	1
ORANO (formerly AREVA)	33	25	41	1
Environmental NGOs	29	49	21	1
Local elected officials	24	52	23	1
The government	24	58	18	0
Journalists	20	60	19	1
Labor Unions	18	61	20	1
Politicians	12	69	18	1

Until 2020, the survey was administered face-to-face. In 2021, we conducted two parallel surveys: one on the Internet (the results of which are presented in the Barometer) and another, a control survey, carried out in the same way as in previous years (face-to-face). For almost all of the questions, the effect of the new administration is negligible. But for these two questions a significant bias is recorded, particularly about trust. As you can see on the following pages, not all actors are affected in the same way. The results of both surveys can be found on the website: <https://barometre.irs.fr/graphiques>.

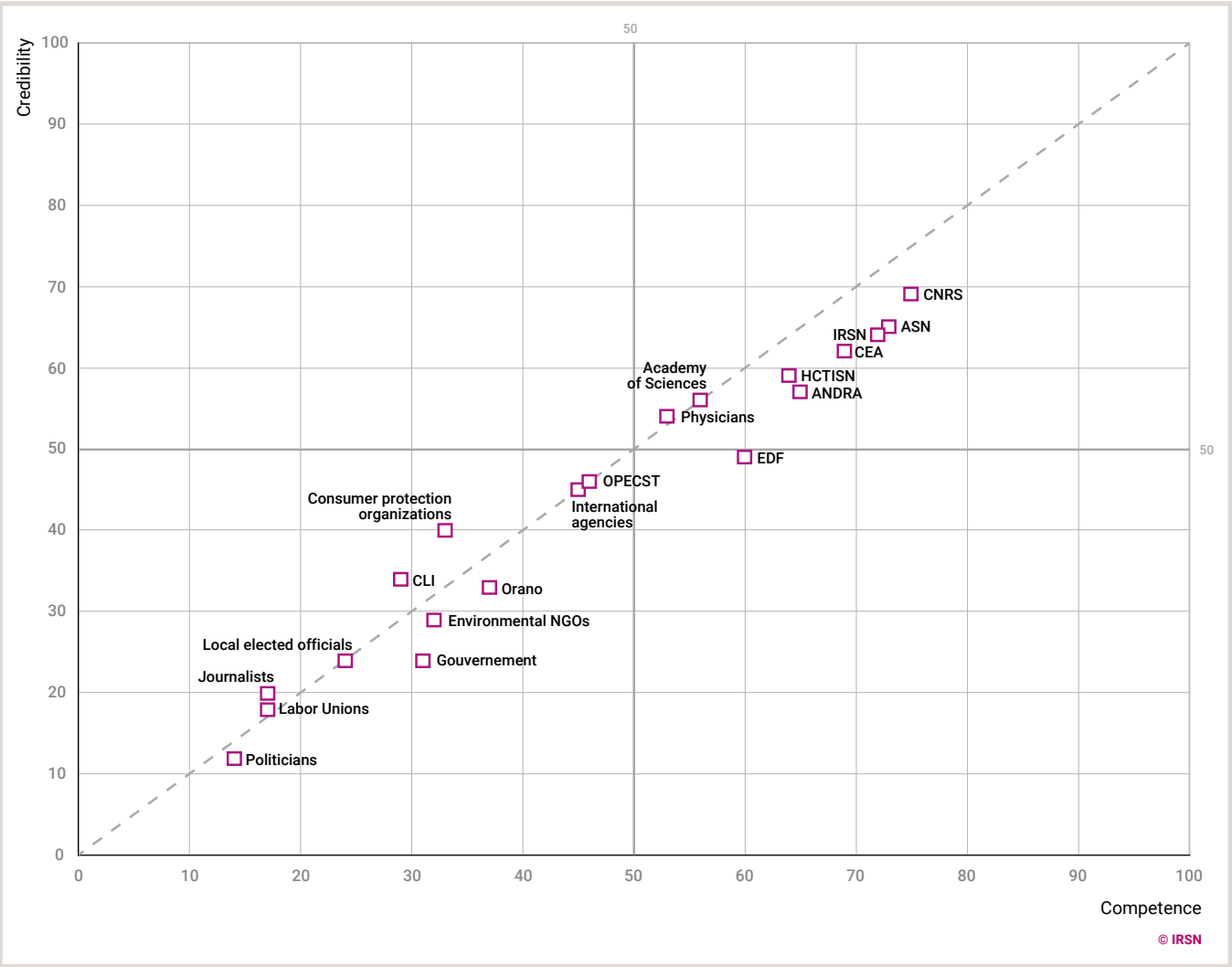
QUESTION
No.13

In the field of nuclear industry and energy do you think the following actors and organizations are technically competent?

QUESTION
No.14

In the field of nuclear industry and energy, do you think the following actors and organizations are trustworthy sources of information?

→ NOVEMBER 2022 (IN %)



Until 2020, the survey was administered face-to-face. In 2021, we conducted two parallel surveys: one on the Internet (the results of which are presented in the Barometer) and another, a control survey, carried out in the same way as in previous years (face-to-face). For almost all of the questions, the effect of the new administration is negligible. But for these two questions a significant bias is recorded, particularly about trust. As you can see on the following pages, not all actors are affected in the same way. The results of both surveys can be found on the website: <https://barometre.irs.fr/graphiques>.



170

Description of the sample

172 – 179

Questionnaire

180

Surveys

DESCRIPTION OF THE SAMPLE

	%	2018 NATIONAL CENSUS
GEOGRAPHICAL DISTRIBUTION		
Île-de-France	17.9	17.9
North	6.4	6.4
East	8.6	8.6
East Paris Basin	7.7	7.7
West Paris Basin	9.7	9.7
West	14.2	14.2
Southwest	11.1	11.1
Central East	12.2	12.2
Mediterranean area	12.2	12.2

SIZE OF URBAN AREA		
Rural	22.3	22.3
Between 2 000 and 19 999 inhab.	22.0	22.0
Between 20 000 and 99 999 inhab.	12.1	12.1
100 000 inhab and more	28.1	28.1
Paris metropolitan area	15.5	15.5

GENDER		
Man	47.7	47.7
Woman	52.3	52.3

AGE		
18-24 years	10.6	10.6
25-34 years	15.8	15.8
35-49 years	24.8	24.8
50-64 years	24.5	24.5
65 years and more	24.3	24.3

SOCIO-PROFESSIONAL CATEGORY		
Farmer, craftsperson, shopkeeper, entrepreneur	5.2	5.2
Professional (incl. intellectual professions, lawyers, physicians...)	10.3	10.3
Intermediate-skill worker	15.0	15.0
Employee	17.0	17.0
Worker	12.7	12.7
Retired, other inactive	39.8	39.8

End of quota variables.

Thanks to the statistical adjustment, the sample corresponds exactly to the targeted quotas. It is fully comparable to the samples of previous years and does not contain any under or over-representation of a socio-demographic parameter that could lead to an inaccurate representation of the French population.

		%
EMPLOYMENT STATUS OF THE INTERVIEWEE		
Public sector employee		15
Private sector employee		36
Self-employed		5
Unemployed		4
Inactive		40

EDUCATION LEVEL		
What is the highest degree you have obtained?		
Less than a bachelor's degree		23
Bachelor's degree		27
Bachelor's degree and 2 years of higher		20
Bachelor's degree and more than 2 years of higher education		30
Doesn't know/No answer		0

MAJOR IN STUDIES		
Your training is mostly:		
Scientific (physics, mathematics, chemistry, technology, computer science)		27
Economic and legal sciences (law, management, business)		25
Life sciences, health (medicine, paramedics, pharmacy, biology)		13
Humanities and social sciences (literature, psychology, sociology, arts)		16
Other (specify)		19

%

POLITICAL AFFILIATION

Without thinking only of the elections, of the following political parties, can you tell me which one you feel closest to or let's say the least distant?

Lutte Ouvrière	2
The NPA (New Anti-Capitalist Party)	1
The Communist Party	2
La France Insoumise	8
The Socialist Party	8
Europe Écologie Les Verts (Green Party)	6
Renaissance (ex-La République En Marche)	10
MoDem	2
Horizons (by Édouard Philippe)	1
UDI (Union des Démocrates et Indépendants)	1
Les Républicains (formerly UMP)	8
Debout la France (by Nicolas Dupont-Aignan)	2
Le Rassemblement National (formerly Front National)	17
Reconquête ! (by Éric Zemmour)	3
No party	
Doesn't know/No answer	3

INCOME LEVEL

What is your monthly net income of your household?

Subtotal less than 2,000 € monthly	36
Less than 1,000 € monthly	9
1,000 € to 1,499 € monthly	12
1,500 € to 1,999 € monthly	15
Subtotal 2,000 € to 4,000 € monthly	46
2,000 € to 2,999 € monthly	25
3,000 € to 3,999 € monthly	21
Subtotal 4,000 € or more monthly	18
4,000 € to 5,999 € monthly	11
5,000 € to 6,999 € monthly	4
6,000 € or more monthly	3

SCIENCE MAGAZINES READING

Do you read scientific newspapers, journals or magazines, such as *Science & Vie*, *Science et Avenir*, *Ça m'intéresse*, *La Recherche*, etc.?

Subtotal Often/Sometimes	41
Often	9
Sometimes	32
Subtotal Rarely/Never	59
Rarely	30
Never	29

%

POLITICAL STANCE

Can you tell me where you stand politically?

Subtotal Left	28
Far-left	3
Left	13
Center-left	12
Neither left nor right	40
Subtotal right	32
Center-right	14
Right	10
Far-right	8

2022 FRENCH PRESIDENTIAL ELECTION – FIRST ROUND

In the first round of the 2022 presidential election, which candidate did you vote for?

Nathalie Arthaud	1
Philippe Poutou	1
Fabien Roussel	2
Jean-Luc Mélenchon	15
Anne Hidalgo	2
Yannick Jadot	4
Emmanuel Macron	21
Valérie Pécresse	5
Nicolas Dupont-Aignan	2
Marine Le Pen	20
Eric Zemmour	6
Jean Lassalle	2
You voted blank	5
You voted invalid	2
You abstained	8
You were not registered to vote	4

RELIGION

Do you regularly practice a religion?

Yes	18
No	82

DO YOU LIVE WITHIN 20 KM...?

of a nuclear power plant?

Yes	12
No	88
Doesn't know / No answer	0

of another nuclear facility?

Yes	8
No	91
Doesn't know / No answer	1

of a major chemical facility?

Yes	16
No	83
Doesn't know / No answer	1

QUESTIONNAIRE

Gender

1. Man
2. Woman

How old are you ?

Automatically recode age

1. 18-24 years
2. 25-34 years
3. 35-49 years
4. 50-64 years
5. 65 years and more

What is the postal code of your main residence? (Metropolitan France only)

Geographical distribution (automatically recoded)

1. Île-de-France
2. North
3. East
4. East Paris Basin
5. West Paris Basin
6. West
7. South-West
8. Central East
9. Mediterranean area

What is your current occupation? (If unemployed having previously worked, code former occupation)

1. Farmer
2. Craftsperson, shopkeeper, entrepreneur
3. Liberal profession and similar
4. Company manager, public service manager, intellectual and artistic profession
5. Intermediate-skill worker
6. Employee
7. Worker
8. Housewife, househusband
9. Pupil, student
10. Retired
11. Looking for first job
12. Other inactive

What is your employment status?

1. Public sector employee
2. Private sector employee
3. Self-employed
4. Unemployed
5. Inactive

In France, which of the following current issues do you find most concerning? First? Second?

1. Insecurity (property and people)
2. Nuclear risks
3. Unemployment
4. Extreme poverty and exclusion
5. Terrorism
6. Health
7. Climate imbalance
8. The global geopolitical instability (tensions, conflict between countries, etc.)
9. Purchasing power
10. Immigration
11. Doesn't know / No answer

In the current context of the war in Ukraine, which of the following issues do you find most concerning? First? Second?

1. The rise in prices (energy, food products, etc.)
2. The uncertainty regarding energy supplies (gas, electricity, etc.)
3. The bombings, destruction in Ukraine (cities, roads, energy infrastructure, etc.)
4. The situation of civilian populations in Ukraine
5. The risk of an accident concerning a nuclear power plant in Ukraine
6. The risk of nuclear weapons use in the conflict
7. The risk of an attack against France
8. The risk of a third world war
9. Other
10. Doesn't know / No answer

Here are a number of environmental issues. Which one do you find most concerning?

1. The disappearance of animal species
2. The destruction of forests
3. Climate imbalance
4. Water pollution
5. The depletion of the ozone layer
6. Air pollution
7. Soil pollution
8. Damage from natural disasters
9. Doesn't know / No answer

In each of the following areas, do you consider that the risks for the French population in general are...

1. Near zero
2. Low
3. Medium
4. High
5. Very high
6. No opinion
7. Doesn't know / No answer

PROPOSITIONS

1. Radioactive waste
2. AIDS
3. Air pollution
4. Nuclear power plants
5. Water pollution
6. Food products safety
7. Chemical waste
8. Floods
9. Radioactive fallout in France from the Chernobyl accident
10. Terrorism

11. GMO's (Genetically Modified Organisms)
12. Indoor radon
13. Chemical facilities
14. Medical radiographies
15. Pesticides
16. Forest fires
17. Noise pollution
18. Soil pollution
19. Heatwaves
20. Radiotherapy accidents
21. Nanoparticles
22. Endocrine disruptors
23. Cancer
24. Marine submersions (temporary floods caused by the sea)
25. Obesity
26. Domestic accidents
27. Alcohol
28. Pandemics (global epidemics)
29. Smoking
30. Traffic accidents
31. Drugs
32. High-voltage lines

How about for yourself and the ones close to you, do you consider that the risks are?

1. Near zero
2. Low
3. Medium
4. High
5. Very high
6. No opinion
7. Doesn't know / No answer

PROPOSITIONS

1. Radioactive waste
2. AIDS
3. Air pollution
4. Nuclear power plants
5. Water pollution
6. Food products safety
7. Chemical waste
8. Floods
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24. Marine submersions (temporary floods caused by the sea)
25. Obesity
26. Domestic accidents
27. Alcohol
28. Pandemics (global epidemics)
29. Smoking
30. Traffic accidents
31. Drugs
32. High-voltage lines

Do you trust the French authorities to protect people against the following risks?

1. Yes, definitely
2. Yes, somewhat
3. Neither trust nor doesn't trust
4. No, not really
5. No, not at all
6. Doesn't know / No answer

PROPOSITIONS

1. Radioactive waste
2. AIDS
3. Air pollution
4. Nuclear power plants
5. Water pollution
6. Food products safety
7. Chemical waste
8. Floods
9. Radioactive fallout in France from the Chernobyl accident
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24. Marine submersions (temporary floods caused by the sea)
25. Obesity
26. Domestic accidents
27. Alcohol
28. Pandemics (global epidemics)
29. Smoking
30. Traffic accidents
31. Drugs
32. High-voltage lines

Do you feel well-informed or poorly informed about the risks related to each of the following areas?

1. Very well informed
2. Rather well informed
3. Rather poorly informed
4. Very poorly informed
5. Doesn't know / No answer

PROPOSITIONS

1. Radioactive waste
2. AIDS
3. Air pollution
4. Nuclear power plants
5. Water pollution
6. Food products safety
7. Chemical waste
8. Floods
9. Radioactive fallout in France from the Chernobyl accident
10. Terrorism
11. GMO's (Genetically Modified Organisms)
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24. Marine submersions (temporary floods caused by the sea)
25. Obesity
26. Domestic accidents
27. Alcohol
28. Pandemics (global epidemics)
29. Smoking
30. Traffic accidents
31. Drugs
32. High-voltage lines

Here are a number of proposals regarding scientific expertise. For each one, please indicate on the following scale whether you agree or not.

1. Strongly agree
2. Somewhat agree
3. Neither agree nor disagree
4. Somewhat disagree
5. Strongly disagree
6. Doesn't know / No answer

PROPOSITIONS

1. Understandable information on the risks of installations must be made available to everyone
2. In their opinions, scientific experts must also present their points of disagreement
3. It is normal that not all scientific experts' positions are made public

What are, in your opinion, the two most important qualities of scientific experts? First? Second?

1. They are technically competent
2. They are independent in their judgement
3. They are honest in their scientific approach
4. They are responsive in unforeseen situations.
5. They pay attention to the concerns of the civil society
6. They can communicate in a comprehensible way for everyone
7. Doesn't know / No answer

In general, do you have a good or a bad opinion of scientific experts?

1. Very good
2. Good
3. Neither good nor bad
4. Poor
5. Very bad
6. Doesn't know / No answer

Here are three sentences regarding scientific experts and decision-makers. For each one, please indicate whether you agree or not.

1. Strongly agree
2. Somewhat agree
3. Neither agree nor disagree
4. Somewhat disagree
5. Strongly disagree
6. Doesn't know / No answer

PROPOSITIONS

1. When it comes to risk, it is normal to take every precaution even when the scientists only have doubts
2. It is necessary to be certain of the opinions of scientific experts before informing the public
3. Political decision-makers do not take scientific experts' opinions into account enough

Here are a number of propositions related to science. For each one, please indicate on the following scale whether you agree or not.

1. Strongly agree
2. Somewhat agree
3. Neither agree nor disagree
4. Somewhat disagree
5. Strongly disagree
6. Doesn't know / No answer

PROPOSITIONS

1. The development of science and technology generates more benefits than negative effects
2. I trust scientific institutions
3. There can be more than one correct answer to most scientific questions

Regarding the oversight of the impact of an installation that poses risks to the environment and neighboring populations, who do you think should control the environmental and health impact outside the installation? (One answer only)

1. Public regulatory authorities
2. Local elected officials (regional council, general council, municipality)
3. Non-governmental organizations
4. A local citizens' committee
5. The operator of the facility
6. A committee of scientific experts
7. Doesn't know / No answer

Would you be willing to live near...?

1. Yes
2. No
3. Doesn't know / No answer

PROPOSITIONS

1. A nuclear power plant
2. A major chemical facility
3. A chemical waste disposal
4. A radioactive waste disposal
5. A landfill
6. A flood zone
7. A seismic zone
8. An airport
9. A high-voltage power lines
10. A household waste incinerator
11. A nuclear research center
12. A mobile phone relay antenna

13. A wind farm
14. A marine submersion zone (temporary floods caused by the sea)
15. An area of forest at risk of forest fire
16. A carbon capture and geological storage site

Would you be willing to spend time participating to information and consultation meetings on the management of a high-risk installation near your home?

1. Yes, once a year
2. Yes, more than once a year
3. No, I'm not interested
4. No, it's useless
5. No, I don't have time
6. No, other people are more competent than me for that
7. Doesn't know / No answer

A commission bringing together scientific experts, elected representatives, operators, NGOs, citizens and whose aim would be to deal with at-risk situations would be in your opinion...?

1. Very useful
2. Somewhat useful
3. Not very useful
4. Not at all useful
5. Doesn't know / No answer

In your opinion, such a commission bringing together scientific experts, elected representatives, operators, NGOs, citizens and whose aim would be to deal with at-risk situations would be able...

1. Yes, definitely
2. Yes, somewhat
3. No, not really
4. No, not at all

PROPOSITIONS

1. To contribute to risk reduction
2. To bring forth new perspectives and ideas
3. To improve the overall quality of expertise
4. To better define the question to be studied by taking into account the stakes of all stakeholders
5. To improve communication between scientific experts, elected officials, industry representatives, associations, and citizens
6. To make the expertise more credible.
7. To reduce the expertise timelines

Which of the following industrial or technological activities do you think is most likely to cause a serious accident or a disaster in France?

1. Chemical facilities
2. Transport of hazardous material
3. Nuclear power plants
4. Dams
5. Radioactive waste disposals
6. Air transport
7. Virus research laboratories
8. Other
9. Doesn't know / No answer

Here are actions that an expertise body could take to better report on the results of its expertise. For each one, please indicate whether it is a priority, secondary or useless.

1. A priority
2. Secondary
3. Useless
4. Doesn't know / No answer

PROPOSITIONS

1. Make available to all the list of all its current work
2. Answer all questions raised by NGOs and citizens
3. Organize public meetings to discuss its work
4. Make public its expertise reports
5. Organize webinars (on the internet) to present and debate about its projects

Technological risks expertise is embodied by reports to regulatory agencies in order for them to authorize an industrial installation. What do you prefer in regards to these reports?

1. I prefer to have access myself to these reports and make my own opinion
2. I prefer that access to technical reports be reserved only to others such as environmental protection organizations, elected officials or journalists.
3. Doesn't know / No answer

Here are two proposals regarding citizens' access to experts. For each of them, independently of the other, please indicate if it appears to you as a priority, secondary, or unnecessary.

1. Very important
2. Somewhat important
3. Not important
4. Not at all important
5. Doesn't know / No answer

PROPOSITIONS

1. Grant citizens the possibility to request an expertise from an agency or public expertise body if they are sufficiently numerous
2. Grant nonprofit organizations the possibility to request an expertise from an agency or public expertise body

In the following list, what could encourage you to make your point of view be heard before a public decision is made?

1. To have the possibility to discuss with experts
2. To feel directly concerned by the topic
3. To feel that your participation as a citizen matters as much as that of other stakeholders
4. To have access to additional information to better understand the topic
5. To be sure not to be manipulated or exploited.
6. To receive financial compensation for participation
7. To have the possibility to participate remotely
8. To adapt meeting locations and times to participants
9. To associate these meetings with existing cultural events in the region
10. None of the above

Do you think that a collaboration between researchers and citizens at all stages of the research process (from formulating the research question to data collection, analysis, and dissemination of results) could...

11. Yes, definitely
12. Yes, somewhat
13. No, not really
14. No, not at all

PROPOSITIONS

1. Further enhance citizens' trust in researchers.
2. Contribute significantly to the advancement of science.

Here are a number of reasons why the results of a scientific expertise might not be made public. For each one, please indicate on the following scale whether this is a good reason.

3. Yes, definitely
4. Yes, somewhat
5. No, not really
6. No, not at all
7. Doesn't know / No answer

PROPOSITIONS

1. Trade secret
2. The impossibility to express the results in terms understandable by the public
3. The fact that the decision related to the result of the expertise has not yet been taken
4. The lack of scientific certainty
5. Counterterrorism
6. "Top secret" classification

In the field of nuclear industry and energy do you think the following actors and organizations are technically competent?

7. Yes
8. No
9. No opinion
10. Doesn't know/ no answer

PROPOSITIONS

1. The government
2. Environmental NGOs
3. EDF
4. Journalists
5. CEA (Atomic energy commission)
6. Physicians
7. The CNRS (National Center for Scientific Research)
8. International agencies (IAEA, NEA, etc.)
9. ORANO (formerly AREVA)
10. Consumer protection organizations
11. Politicians
12. The Academy of Sciences
13. Local elected officials
14. Labor Unions
15. ASN (Nuclear Safety Authority)
16. IRSN (Institute for Radiological Protection and Nuclear Safety)
17. ANDRA (National agency for radioactive waste management)
18. OPECST (Parliamentary Office for the Evaluation of Scientific and Technological Choices)
19. The CLI (Local Information Commissions)
20. The HCTISN (High committee for transparency and information on nuclear security)

In the field of nuclear industry and energy, do you think the following actors and organizations are trustworthy sources of information?

1. Yes
2. No
3. No opinion
4. Doesn't know/ no answer

PROPOSITIONS

1. The government
2. Environmental NGOs
3. EDF
4. Journalists
5. CEA (Atomic energy commission)
6. Physicians
7. The CNRS (National Center for Scientific Research)
8. International agencies (IAEA, NEA, etc.)
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19. The CLI (Local Information Commissions)
20. The HCTISN (High committee for transparency and information on nuclear security)

What do you think is the strongest argument against nuclear power today?

1. The lack of transparency in the nuclear industry
2. The risk of an accident
3. The production of radioactive waste
4. The cost of nuclear (construction, operation, decommissioning, waste)
5. The competition with investments in renewable energies
6. The emission of greenhouse gas
7. Other
8. Doesn't know/ no answer

What do you think is the strongest argument for nuclear power today?

1. Energy independence
2. The low cost of electricity
3. The low emissions of greenhouse gas
4. The safety of nuclear facilities
5. The creation or preservation of jobs in France
6. Other
7. Doesn't know/ no answer

Here are various proposals relating to nuclear energy. For each one, please indicate your opinion according to the following scale if you agree or not.

1. Strongly agree
2. Somewhat agree
3. Neither agree nor disagree
4. Somewhat disagree
5. Strongly disagree
6. Doesn't know/ no answer

PROPOSITIONS

1. New nuclear power plants must be built
2. Building nuclear power plants was a good thing
3. Nuclear power plants must be closed

In your opinion, which of the following energy sources best corresponds to...*

1. Nuclear energy
2. Solar energy
3. Wind energy
4. Hydropower energy
5. Biomass energy
6. Geothermal energy
7. Natural gas
8. Oil
9. Coal
10. Doesn't know / No answer

PROPOSITIONS

1. The most environmentally friendly energy
2. The energy of the future
3. The energy with the highest performance
4. The energy that has the lowest cost
5. The energy best suited for the energy transition

Now and with hindsight, do you think that the choice of nuclear power was ...?

1. A good choice
2. A bad choice
3. A realistic choice
4. Doesn't know/ no answer

Here are a number of proposals relating to nuclear facilities. Please indicate on the following scale whether you agree or disagree.

1. Strongly agree
2. Somewhat agree
3. Neither agree nor disagree
4. Somewhat disagree
5. Strongly disagree
6. Doesn't know/ no answer

PROPOSITIONS

1. Every precaution is being taken to ensure a very high level of safety in French nuclear power plants
2. Radioactivity from nuclear power plants cause cancers
3. Around nuclear facilities, people are as healthy as elsewhere
4. Nuclear sites cause groundwater contamination
5. Nuclear site operators must protect their facilities from all risks, even those considered very unlikely
6. Today, it is possible to safely store nuclear waste
7. Nuclear installations are vulnerable to climate change
8. The safety of nuclear installations takes precedence over energy production, even if it may result in power outages in the country
9. Extending the operating lifespan of nuclear power plants will lead to accidents

Here are various measures to strengthen the safety of nuclear sites. For each one, please indicate whether you consider it to be a priority, secondary or useless to strengthen the safety of nuclear sites.

1. A priority
2. Secondary
3. Useless
4. Doesn't know/ no answer

PROPOSITIONS

1. Develop research to design a new generation of nuclear reactors
2. Develop research on the safety of existing nuclear reactors
3. Better take into account the human factor and work organization
4. Improve the capacity of France to handle a possible nuclear emergency
5. Reinforce inspections by the competent inspections of facilities
6. Reinforcing citizens' ability to exercise vigilance their vigilance with regard to plant safety

To solve the radioactive waste problem, which solution sounds the most reasonable to you?

1. Make a decision as soon as possible and apply it right away
2. Extend research for 10 years
3. Leave the choice to future generations
4. Doesn't know / No answer

Based on what you know, do you think that the choice to extend the operating lifespan of nuclear power plants constitutes :

1. A very good choice
2. Somewhat a good choice
3. Neither a good nor a bad choice
4. Somewhat a bad choice
5. A very bad choice

Do you live within 20 km...

6. Yes
7. No
8. Doesn't know / No answer

PROPOSITIONS

1. of a nuclear power plant?
2. of another nuclear facility?
3. of a major chemical facility?

Which of the following catastrophic events do you find most frightening?

1. The explosion of the AZF factory in Toulouse in 2001
2. The Chernobyl nuclear power plant accident in 1986
3. The tsunami of December 26th 2004 in the Indian Ocean
4. The Fukushima nuclear power plant accident in 2011
5. The drought and heatwaves of the summer 2022 in France.
6. The global Covid-19 pandemic
7. The Katrina hurricane in 2005
8. Other
9. Doesn't know / No answer

In your opinion, can an accident of the same magnitude as the one in Fukushima occur in a French nuclear power plant?

1. Yes
2. No
3. Doesn't know / No answer

How likely do you think such an accident is?

1. Very likely
2. Somewhat likely
3. Somewhat not likely
4. Not at all likely
5. Doesn't know / No answer

Have you heard of the following topics?

1. Yes, I know exactly what it is about
2. Yes, and I can pretty much guess what it is
3. Yes, but only by name
4. No, I have never heard about it
5. Doesn't know / No answer

PROPOSITIONS

1. The "Cigeo" project of radioactive waste burial in Bure
2. The development of SMRs (Small Modular Reactors)
3. The Flamanville EPR reactor (European Pressurized Reactor)
4. The construction of the international fusion nuclear reactor ITER at Cadarache (International Thermonuclear Experimental Reactor)

What is the first thing that comes to mind when you hear the word 'nuclear'? Please list the first five words that come to mind

(Only five words)

Do you have one or more children under the age of 18?

1. Yes, I have a child under the age of 18.
2. Yes, I have several children under the age of 18.
3. No
4. Doesn't know / No answer

What is the highest degree you have obtained?

1. No diploma / Primary education
2. BEPC
3. CAP
4. BEP
5. Baccalaureate
6. Bac +2
7. Bac +3
8. Bac +4
9. Bac +5
10. Business schools, *grandes écoles*
11. Higher than Bac +5
12. Doesn't know / No answer

Your training is rather:

1. Scientific (physics, maths, chemistry, technology, IT)
2. Economic and legal sciences (law, management, business)
3. Life sciences, health (medicine, paramedics, pharmacy, biology)
4. Humanities and social sciences (literature, psychology, sociology, arts)
5. Other
6. Doesn't know / No answer

Do you read scientific newspapers, journals or magazines such as *Science & Vie*, *Science et Avenir*, *Ça m'intéresse*, *La Recherche*...?

1. Often
2. Sometimes
3. Rarely
4. Never
5. Doesn't know / No answer

Without thinking only about the elections, which political party or movement do you feel closest to?

1. Lutte Ouvrière
2. The NPA (New Anti-Capitalist Party)
3. The Communist Party
4. La France Insoumise
5. The Socialist Party
6. Europe Écologie Les Verts (Green Party)
7. Renaissance (formerly « La République en Marche »)
8. Modem
9. Horizons (by Édouard Philippe)
10. UDI (Union des Démocrates et Indépendants)
11. Subtotal Right
12. Les Républicains (formerly UMP)
13. Debout la France (by Nicolas Dupont-Aignan)
14. Le Rassemblement National (formerly Front National)
15. Reconquête ! (by Éric Zemmour)
16. No party
17. Doesn't know / No answer

Can you tell me where you stand politically?

1. Far-left
2. Left
3. Center-left
4. Neither left nor right
5. Center-right
6. Right
7. Far-right

In the first round of the 2022 presidential election, which candidate did you vote for?

1. Nathalie Arthaud
2. Philippe Poutou
3. Fabien Roussel
4. Jean-Luc Mélenchon
5. Anne Hidalgo
6. Yannick Jadot
7. Emmanuel Macron
8. Valérie Pécresse
9. Nicolas Dupont-Aignan
10. Marine Le Pen
11. Eric Zemmour
12. Jean Lassalle
13. You voted blank
14. You voted invalid
15. You abstained
16. You were not registered to vote

What is your monthly net income of your household?

1. Less than 1,000 € monthly
2. 1,000 to 1,499 € monthly
3. 1,500 to 1,999 € monthly
4. 2,000 to 2,999 € monthly
5. 3,000 to 3,999 € monthly
6. 4,000 to 4,999 € monthly
7. 5,000 to 5,999 € monthly
8. 6,000 or more € monthly
9. Doesn't know / No answer

Do you regularly practice a religion?

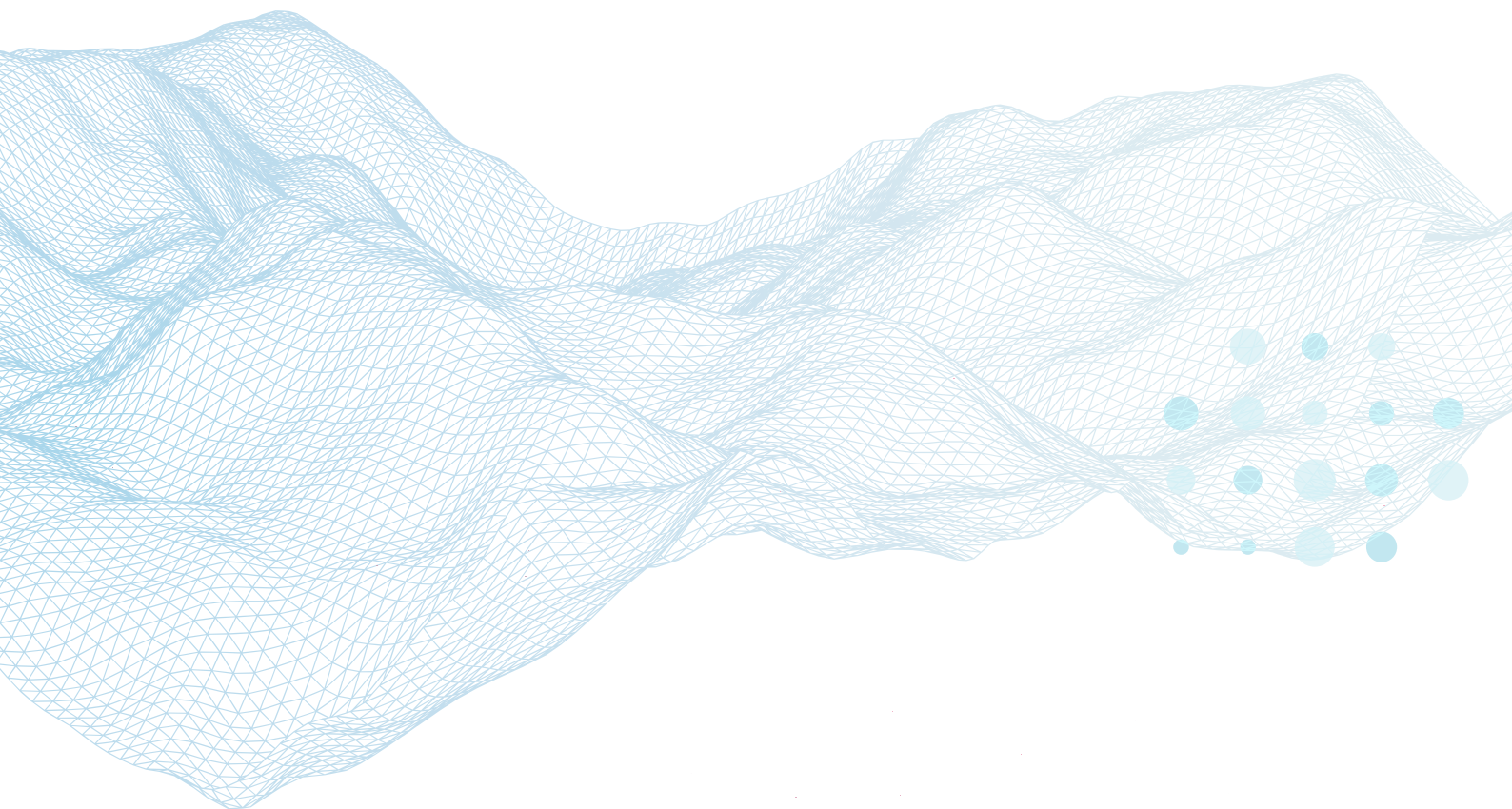
1. Yes
2. No

Finally, do you have any comments on this questionnaire?

(Open-ended question)

SURVEYS

YEAR	SIZE OF THE SAMPLE	TYPE OF SURVEY	POLLING COMPANY
December 1990	1000	SPECIFIC	BVA
June 1991	1010	SPECIFIC	BVA
April 1992	1014	SPECIFIC	BVA
October 1992	951	OMNIBUS	BVA
May 1993	1022	SPECIFIC	BVA
February 1994	944	OMNIBUS	BVA
May 1994	942	OMNIBUS	BVA
January 1995	972	OMNIBUS	BVA
September 1995	1052	SPECIFIC	BVA
December 1995	1000	SPECIFIC	BVA
May 1996	1009	SPECIFIC	BVA
August 1997	1002	OMNIBUS-TEL	BVA
November-December 1997	1035	SPECIFIC	BVA
October 1998	1012	SPECIFIC	BVA
October 1999	1015	SPECIFIC	BVA
October 2000	1000	SPECIFIC	BVA
November 2001	1032	SPECIFIC	BVA
November 2002	1082	SPECIFIC	BVA
October 2004	1008	SPECIFIC	BVA
November 2005	1047	SPECIFIC	BVA
November 2006	1042	SPECIFIC	BVA
November 2007	1002	SPECIFIC	BVA
December 2008	1002	SPECIFIC	BVA
December 2009	1003	SPECIFIC	BVA
December 2010	1009	SPECIFIC	BVA
October 2011	1013	SPECIFIC	BVA
October 2012	1005	SPECIFIC	BVA
October 2013	1022	SPECIFIC	BVA
November 2014	1006	SPECIFIC	BVA
November-December 2015	1016	SPECIFIC	BVA
November-December 2016	1025	SPECIFIC	BVA
November-December 2017	1005	SPECIFIC	BVA
November-December 2018	1039	SPECIFIC	CDA
November-December 2019	1032	SPECIFIC	CDA
November-December 2020	1048	SPECIFIC	CDA
May 2020	1002	OMNIBUS	BVA
November 2020	2011	SPECIFIC-WEB	HARRIS INTERACTIVE
November 2021	2003	SPECIFIC-WEB	HARRIS INTERACTIVE
November 2022	2014	SPECIFIC-WEB	HARRIS INTERACTIVE



FOR FURTHER INFORMATION

IRSN

BP 17 – 92262 Fontenay-aux-Roses Cedex – France

Telephone: +33 (0)1 58 35 97 69

Email: hugo.lutun@irsn.fr

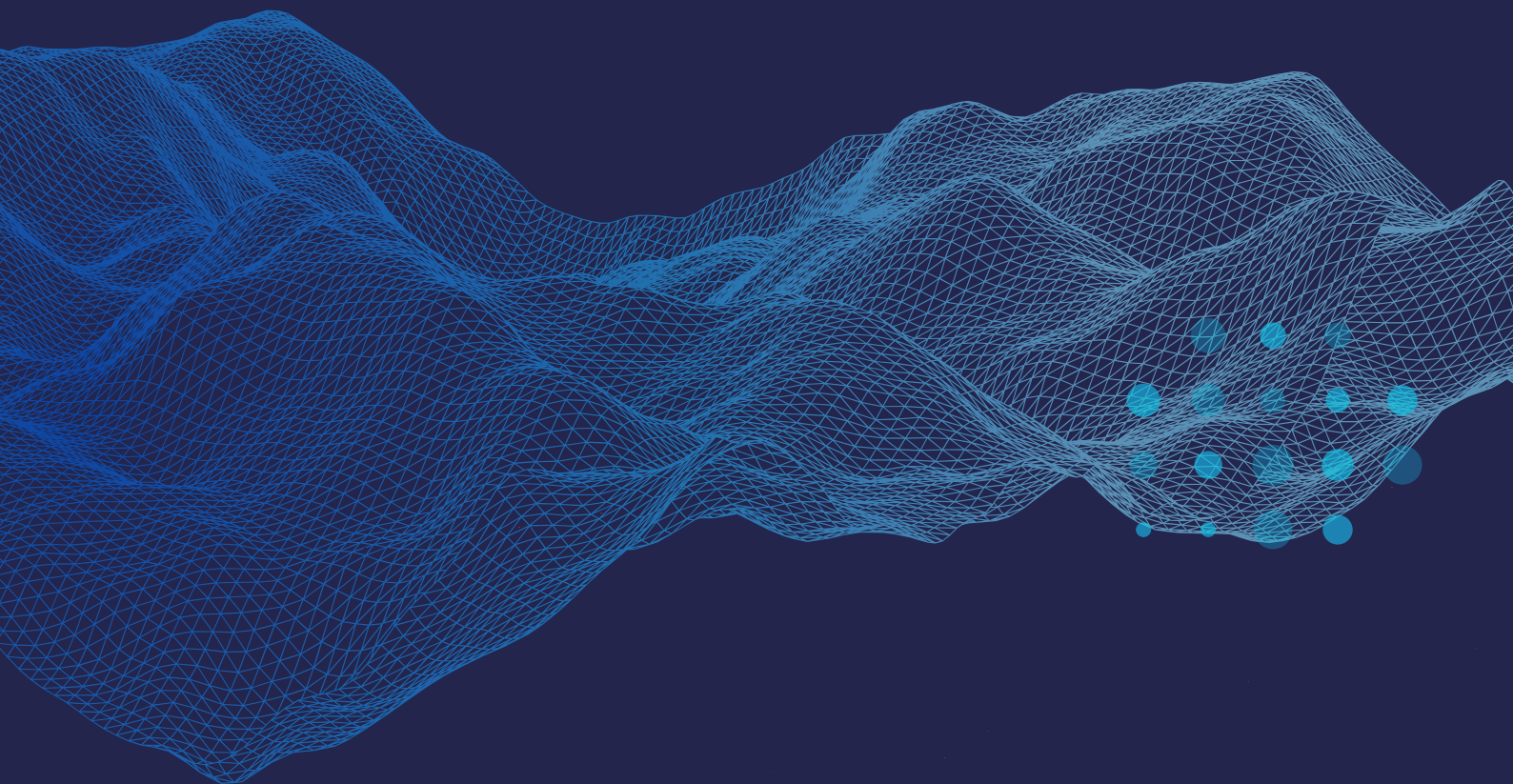


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<https://barometre.irsn.fr>

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31, avenue de la Division-Leclerc
92260 Fontenay-aux-Roses
France
RCS Nanterre B 440 546 018

MAIL
BP 17
92262 Fontenay-aux-Roses Cedex
France

TELEPHONE
+33 (0)1 58 35 88 88

WEBSITE
www.irsn.fr

E-MAIL
contact@irsn.fr
 [@irsn_france](https://twitter.com/irsn_france)

