

BAROMETER 2022

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 2022 edition of the IRSN Barometer displays the results of a survey carried out online from November 15th to November 22nd 2021. A total of 2003 persons 18 years old and up responded. 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 second 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

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KEY

In the graphs of the IRSN 2022 Barometer:

.....

Means the question was withdrawn this specific year

IN MEMORIAM – MARIE-HÉLÈNE EL JAMMAL (1960-2022)

Marie-Hélène has left us too soon. We wish to honor her memory and celebrate the work she has accomplished on risk perception over the last three decades. Between 1989 and 2018, she spent many years following with passion, competence, and curiosity the growth and evolution of the Barometer. Thus, she made it possible for it to follow social trends while being historically grounded.

BAROMETER 2022

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PART

1

THE CURRENT CONCERNS OF THE FRENCH

5 – 9

Main concerns of the French

10 – 11

Main concerns of the French
environmental concerns

12 – 15

The quality of life of the French

16 – 19

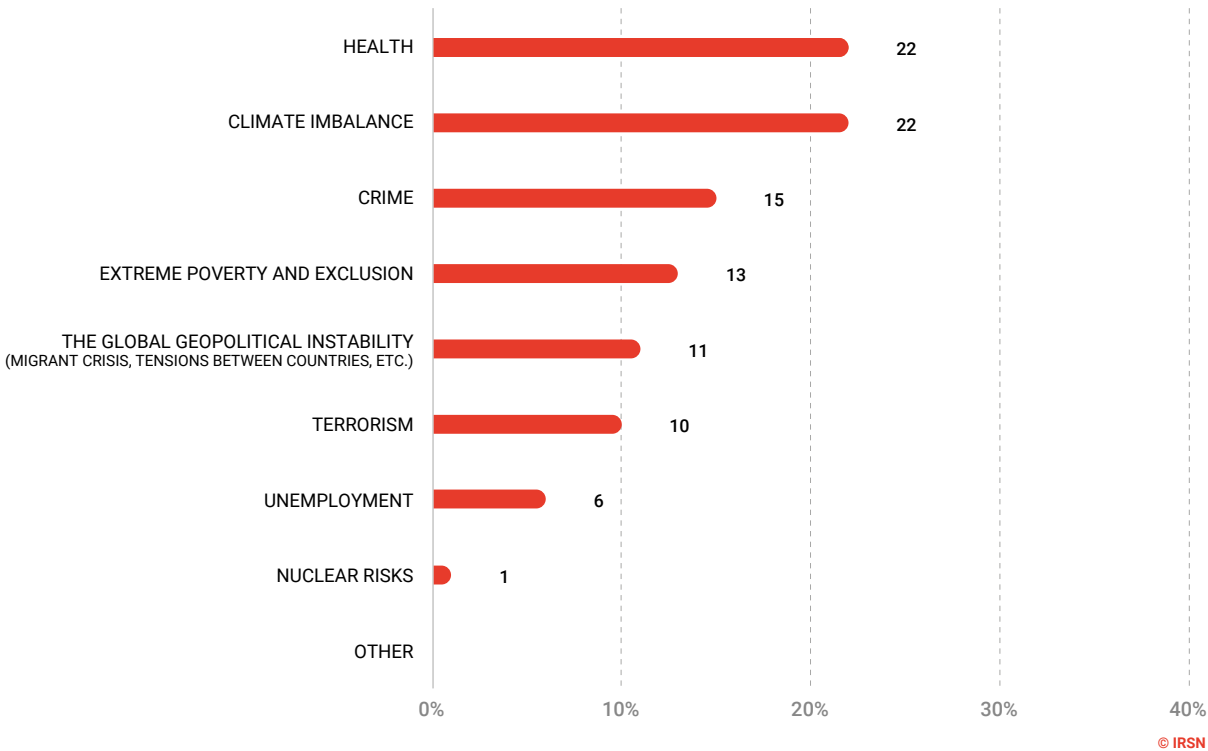
The perception of disasters

QUESTION N°1

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

NOVEMBER 2021

1 – First

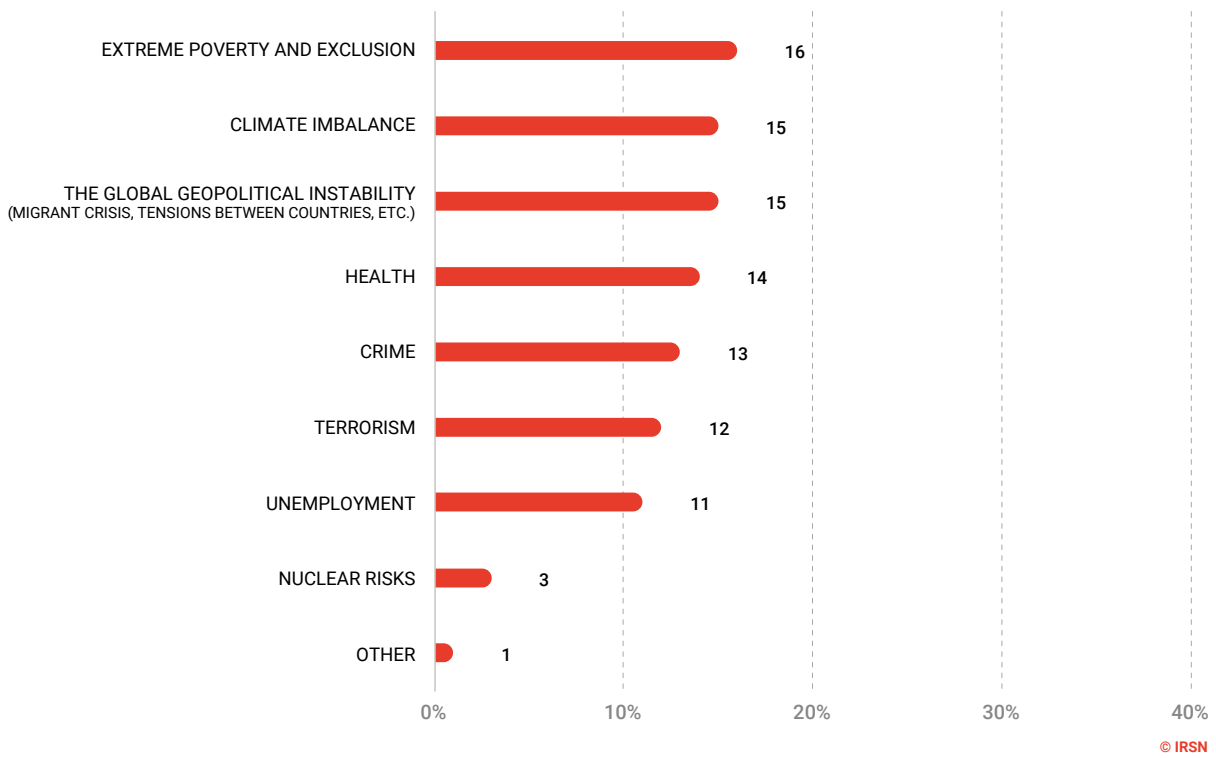


QUESTION N°1
(SERIES)

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

NOVEMBER
2021

2 – Second

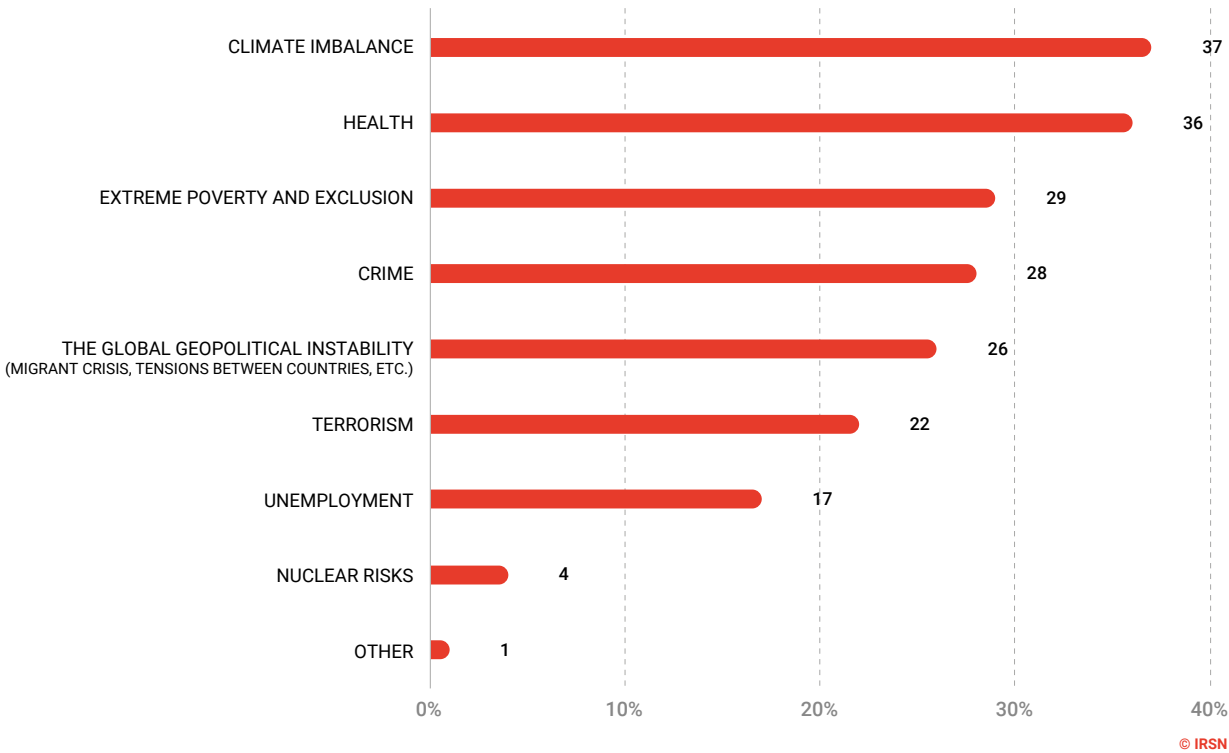


QUESTION N°1
(SERIES)

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

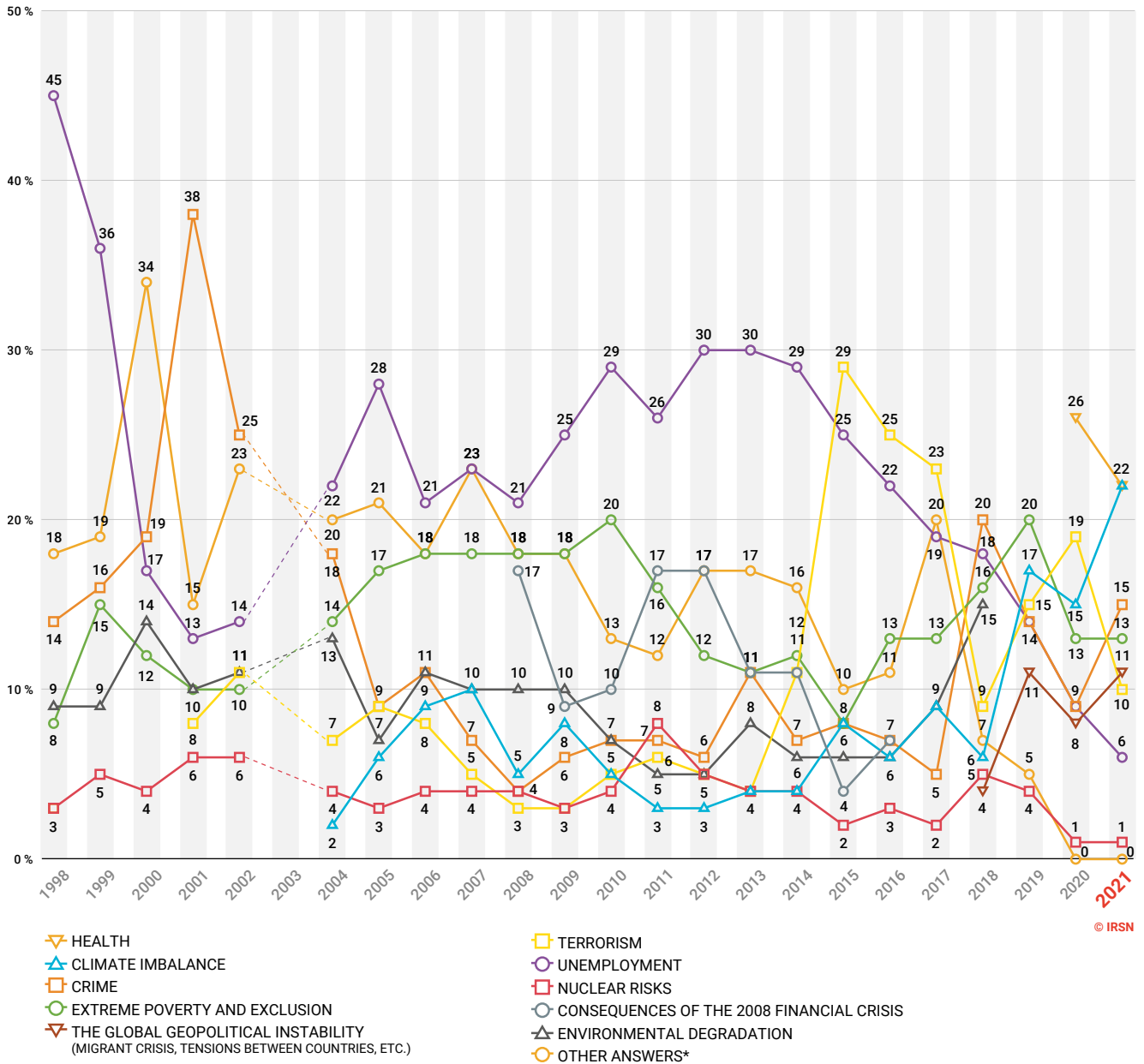
NOVEMBER
2021

3 – Cumulative results



QUESTION N°1 In France, which of the following current issues do you find most concerning? First? Second?
(SERIES)

EVOLUTION OF THE RESULTS
FIRST 1998 - 2021



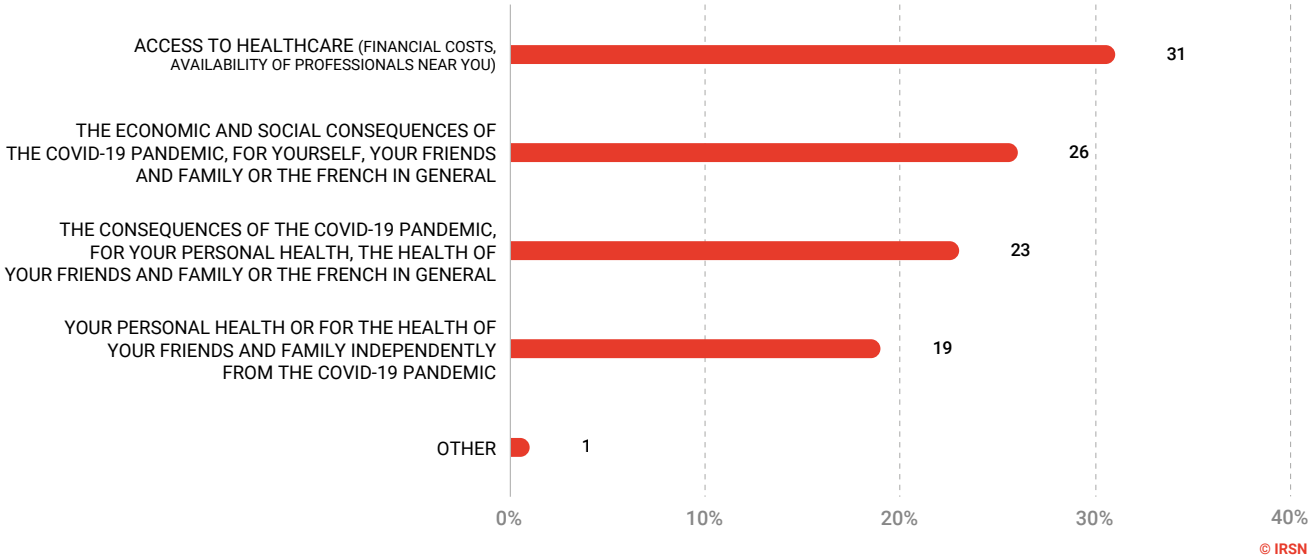
The proposed answers have changed over the years. In 2002, "the lack of security" replaced "violence in the suburbs". In 2018, the modality "destitution and exclusion" was replaced by "extreme poverty and exclusion". In 2019, the modality "climate change" was replaced by "climate imbalance"; the answers "environmental degradation", "traffic accidents", "AIDS", "floods", "chemical risk", "The quality of medical care" and "substance abuse (drugs, alcohol, tobacco)" were removed. In 2020, the modality "health" was added.

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

QUESTION N°2

...and regarding health, what preoccupies you the most? *

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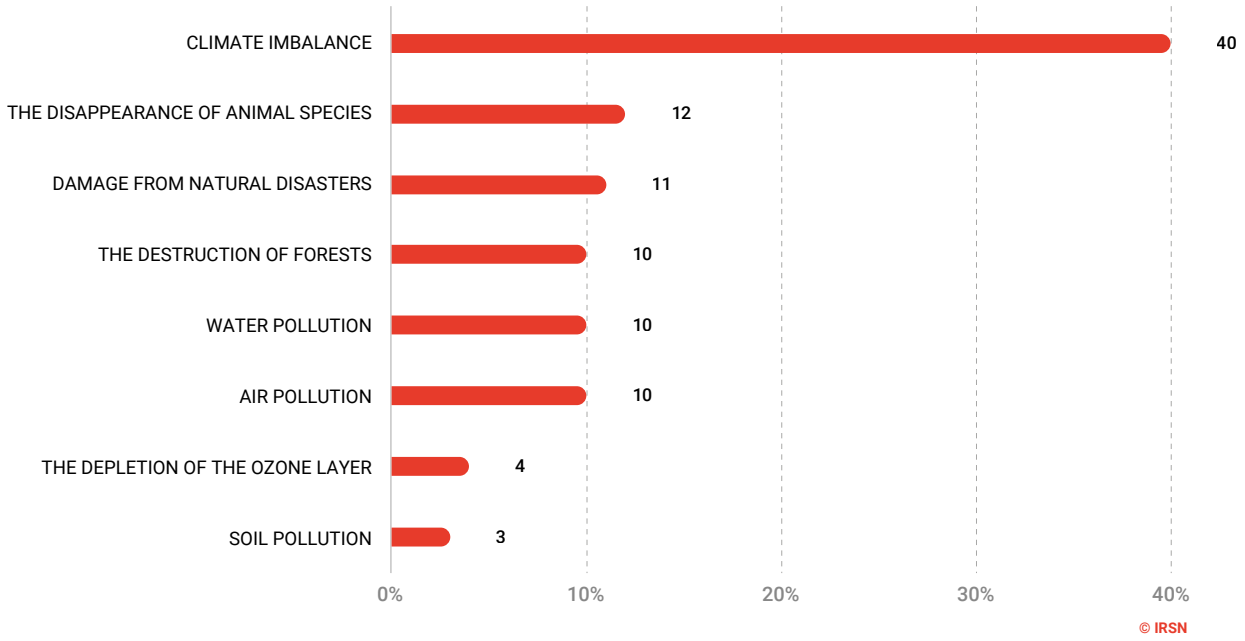
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* Asked only of people who answered "Health" to the previous question (in first or second).

QUESTION N°3

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

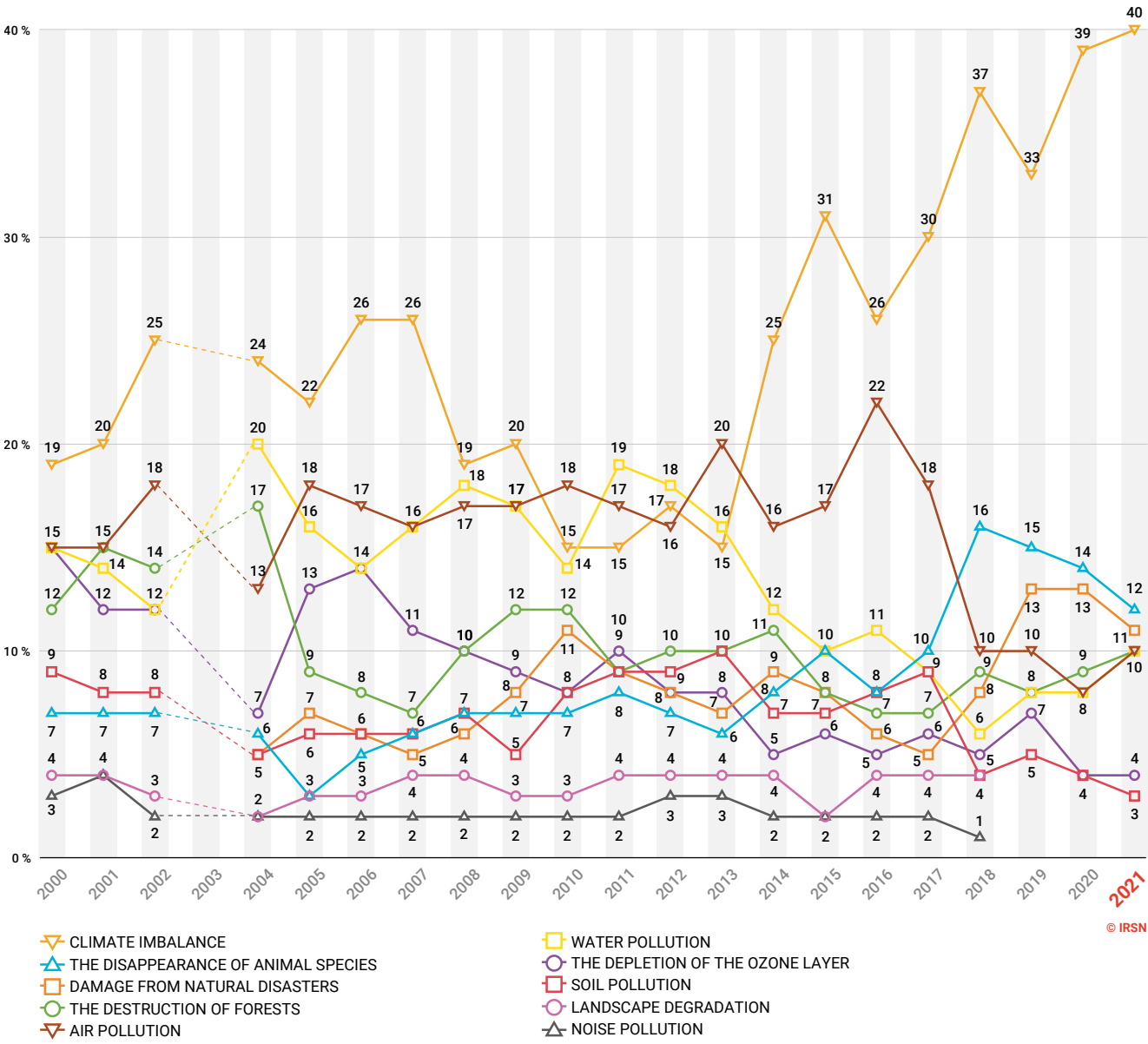
**NOVEMBER
2021**



QUESTION N°3
(SERIES)

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

EVOLUTION OF THE RESULTS
2000 - 2021

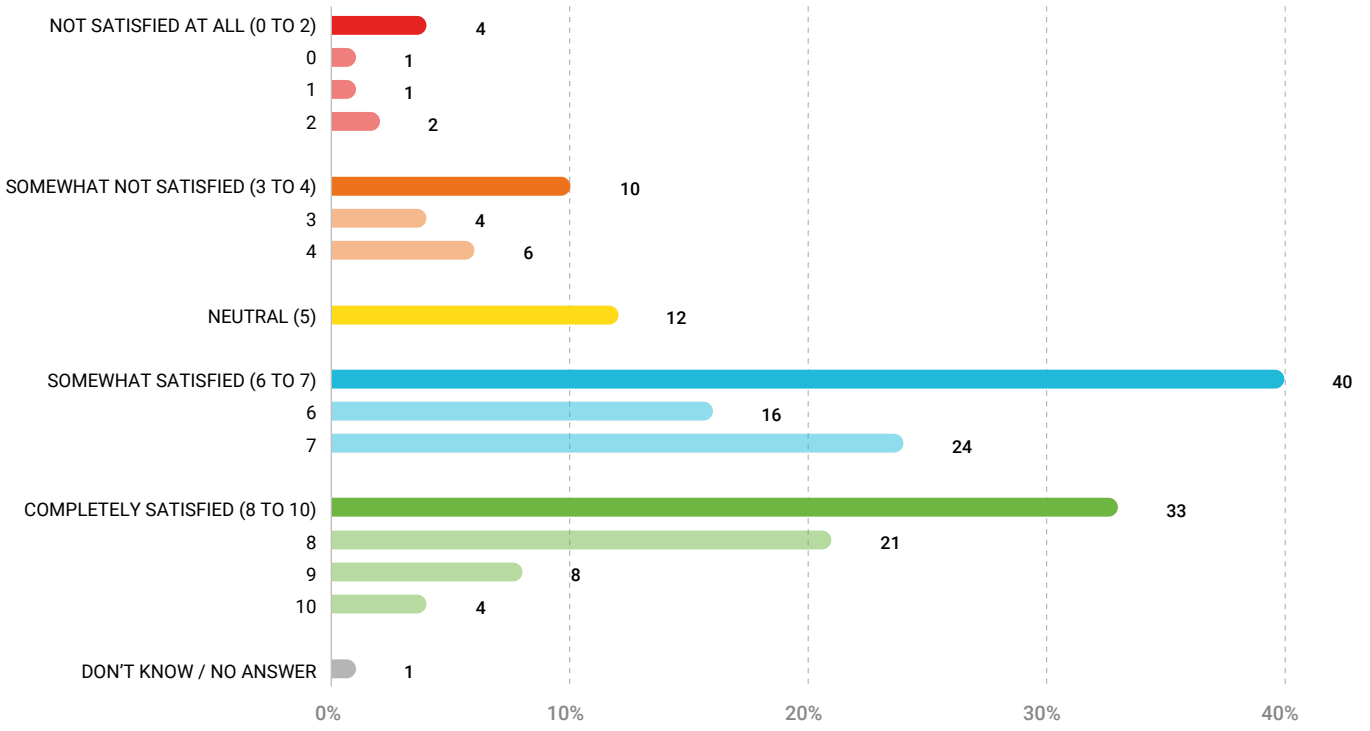


Some of the proposed answers have changed over the years. In 2002, "Air pollution" replaced "Air pollution in urban areas" and "Greenhouse effect (atmospheric warming)" replaced "atmospheric warming". In 2004, "Water pollution" replaced "Pollution of lakes, rivers and seas". In 2014, "Global warming"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

QUESTION N°4

In general, how satisfied are you
with your life in general?

**NOVEMBER
2021**

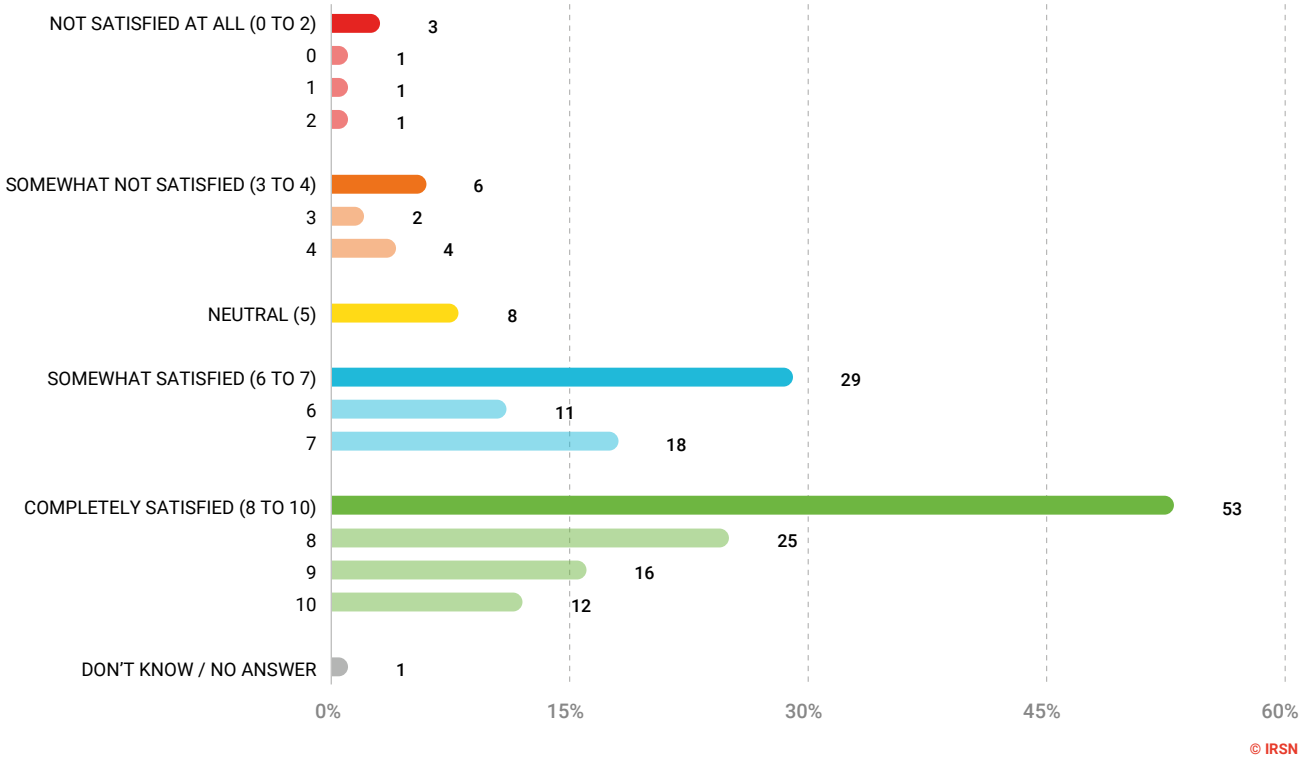


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QUESTION N°5

In general, how satisfied are you with the relationships you have with the people close to you?

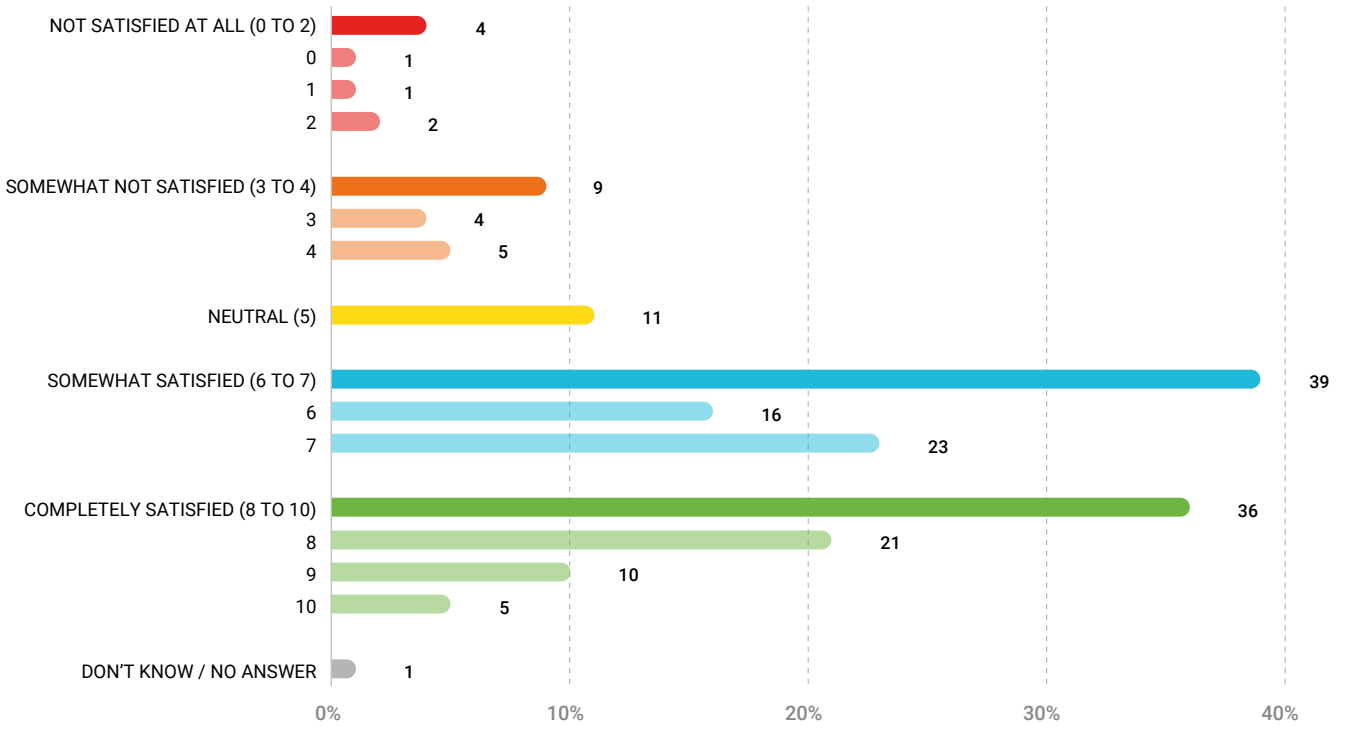
NOVEMBER 2021



QUESTION N°6

How satisfied are you
with your health?

**NOVEMBER
2021**

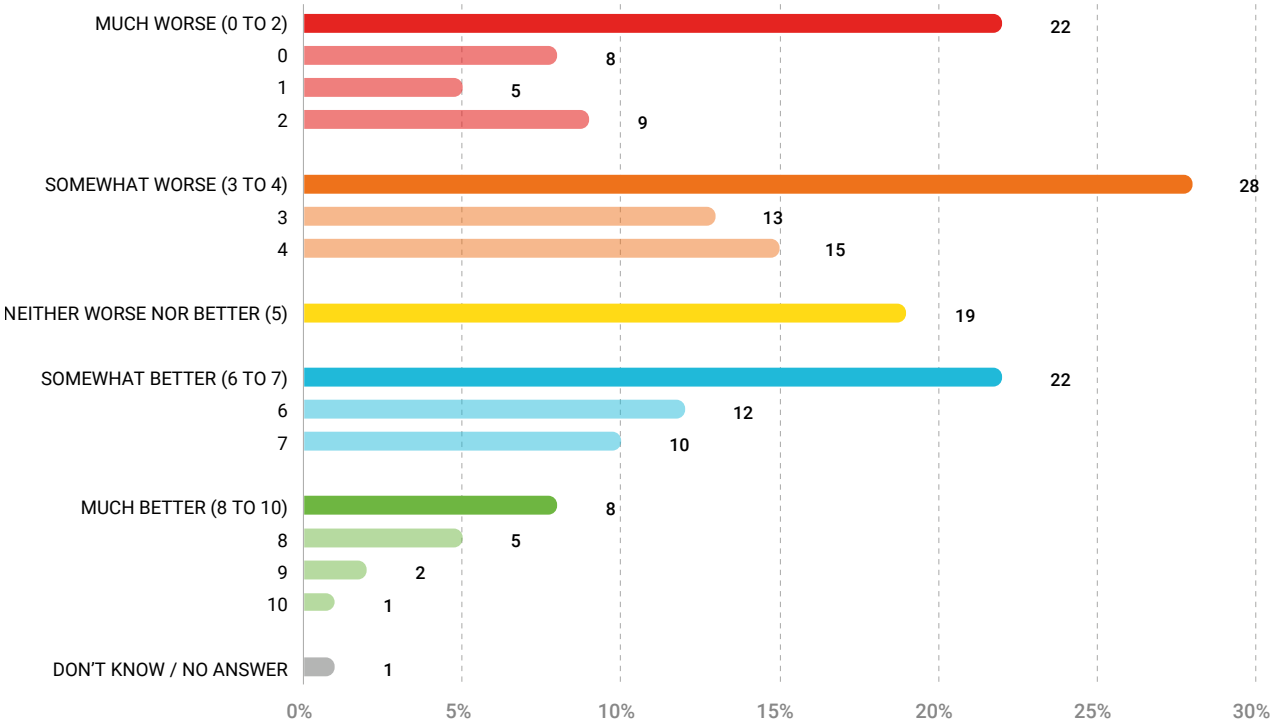


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QUESTION N°7

How do you think life will be in France for the next generation?

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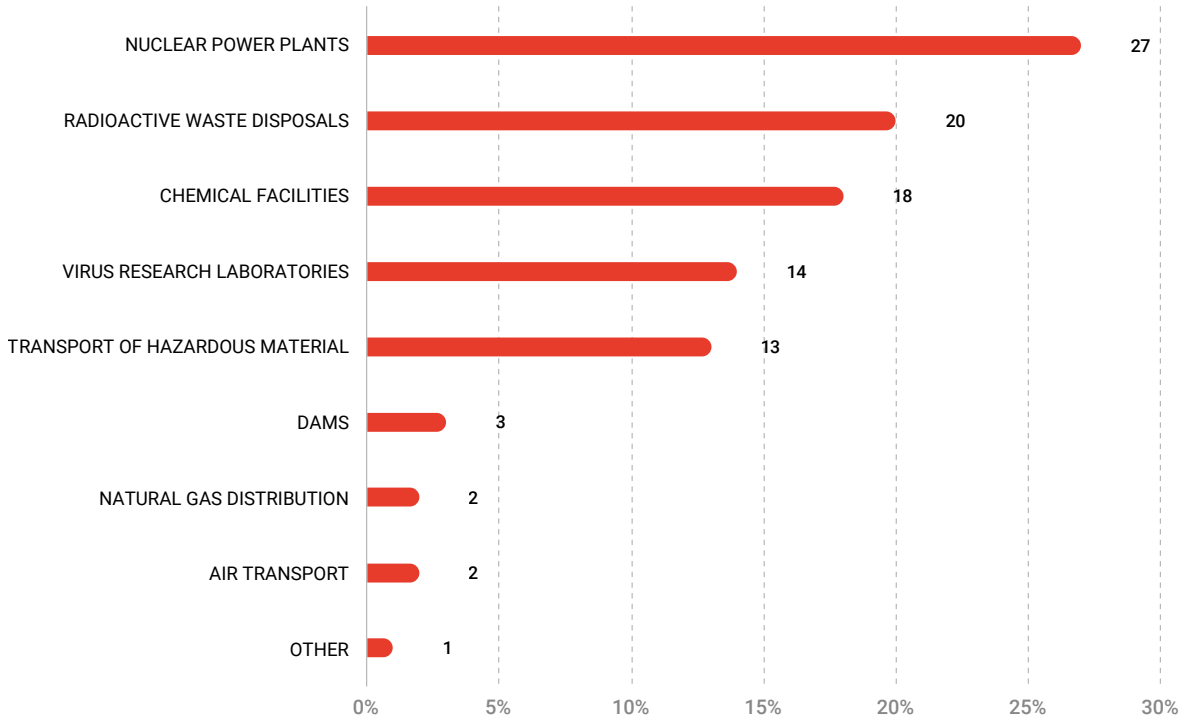


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QUESTION N°8

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

**NOVEMBER
2021**

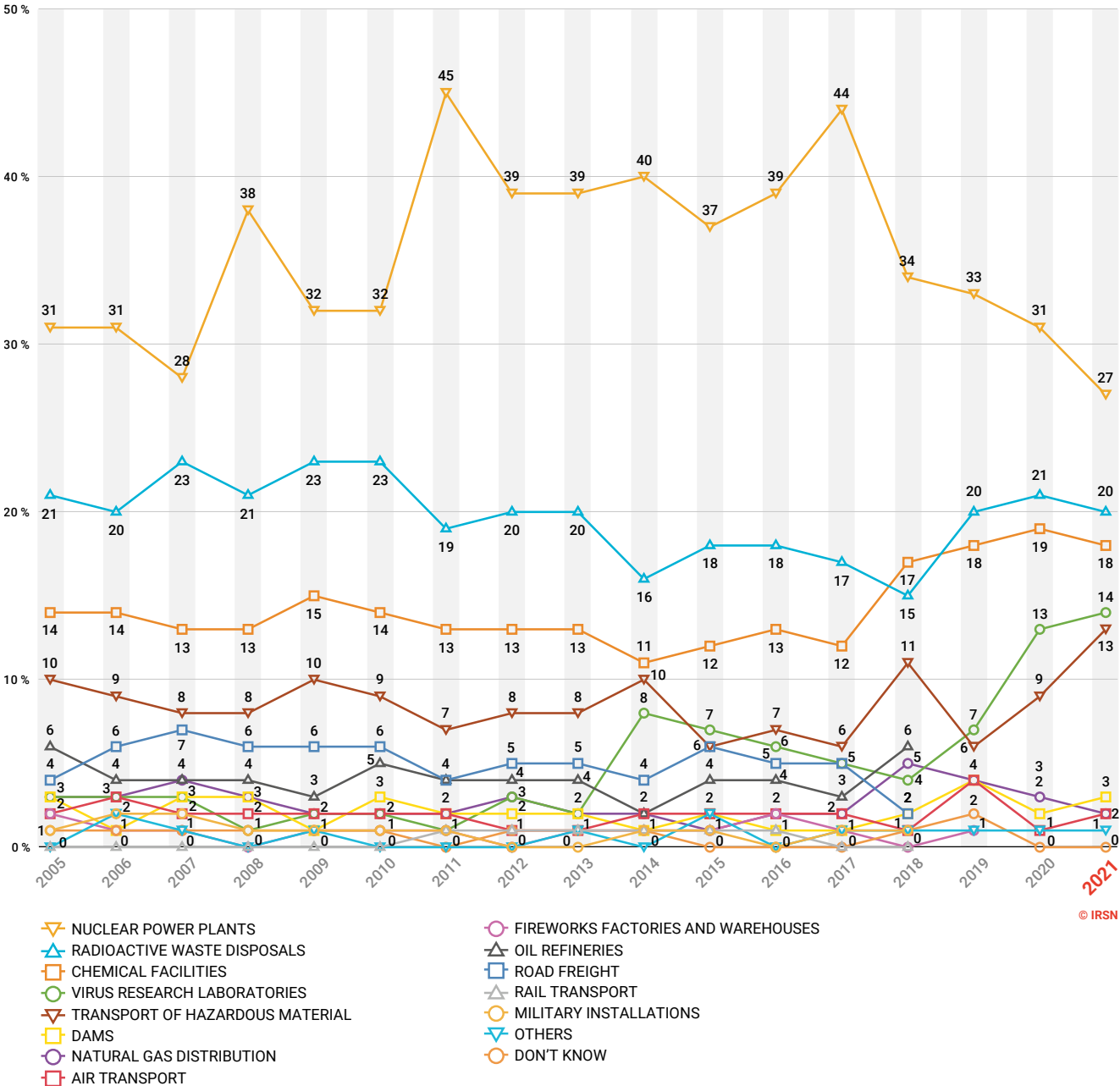


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QUESTION N°8
(SERIES)

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

EVOLUTION OF THE RESULTS
2005 - 2021

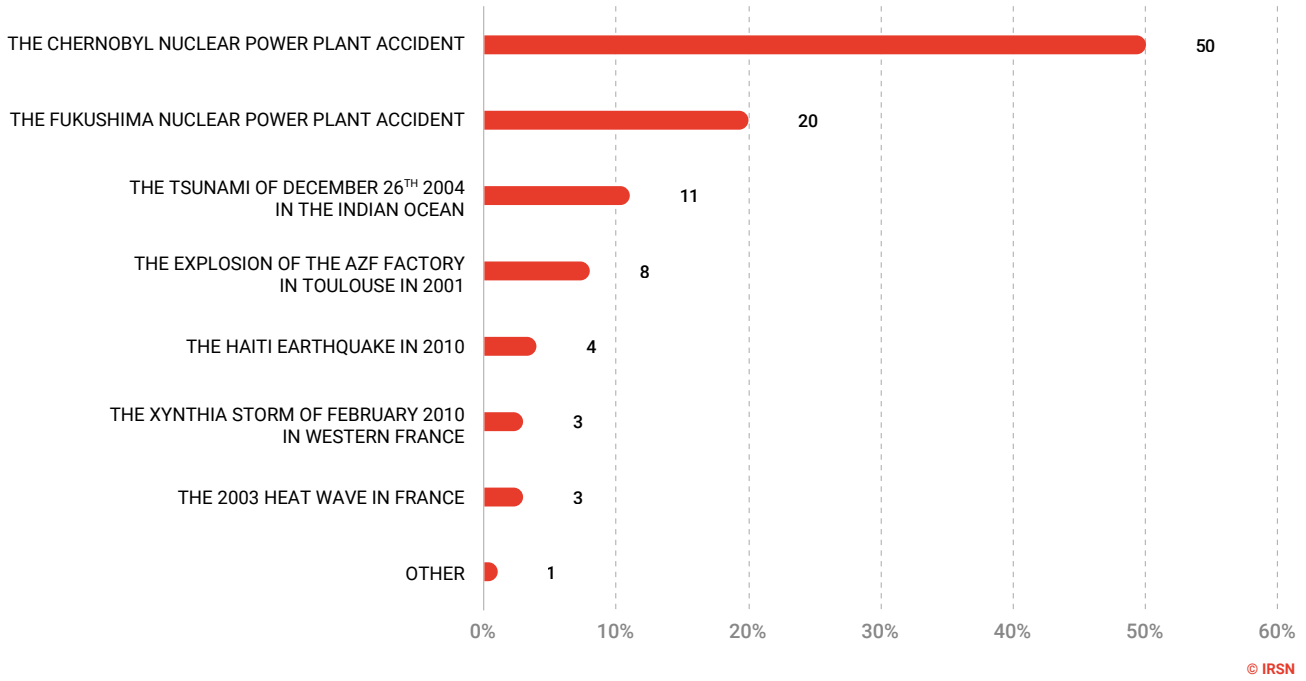


The proposed list of answers has evolved over the years. "Oil refineries", "Road freight", "Rail transport" and "Military installations" were removed in 2019, followed by "Fireworks factories and warehouses" in 2020.

QUESTION N°9

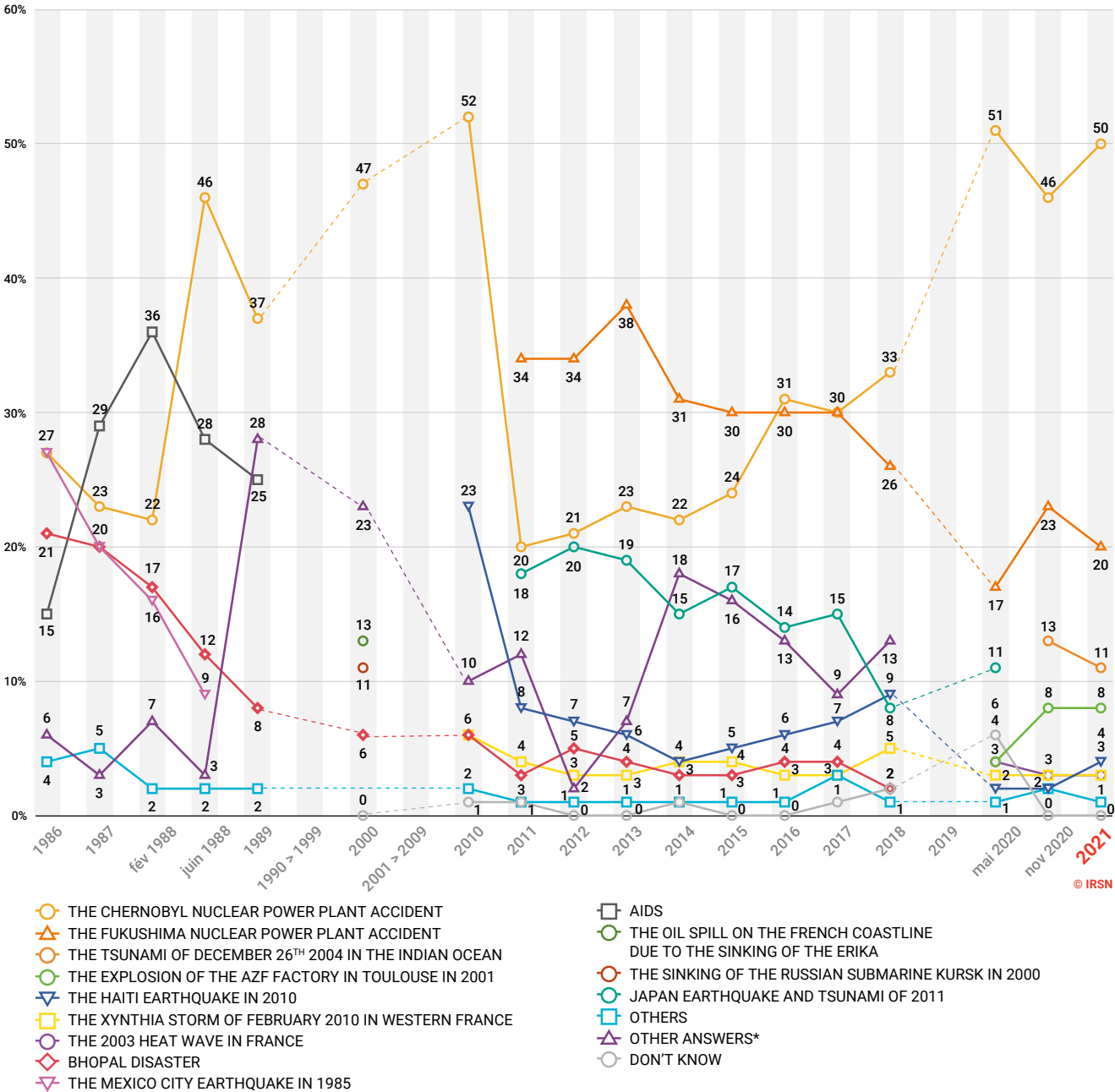
Which of the following catastrophic events do you find most frightening?

NOVEMBER
2021



QUESTION N°9 : Which of the following catastrophic events (SERIES) do you find most frightening?

EVOLUTION OF THE RESULTS
1986 - 2021



In 2020, the answer "Hurricane Katrina in New Orleans in 2005" has been removed. Previously, in 2019, "Heat waves (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".

* 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

21 – 24

The image of science
and expertise

25 – 31

Expertise, as expected
by the French

32 – 40

How to share the results
of expertise

41 – 47

The management
of high-risk facilities

QUESTION N°1

Here are a number of propositions related to science.
 For each one, please indicate on the following
 scale whether you...

**NOVEMBER
2021**

THERE CAN BE MORE THAN ONE CORRECT ANSWER TO MOST SCIENTIFIC QUESTIONS



I TRUST SCIENTIFIC INSTITUTIONS



THE DEVELOPMENT OF SCIENCE AND TECHNOLOGY GENERATES MORE BENEFITS THAN NEGATIVE EFFECTS

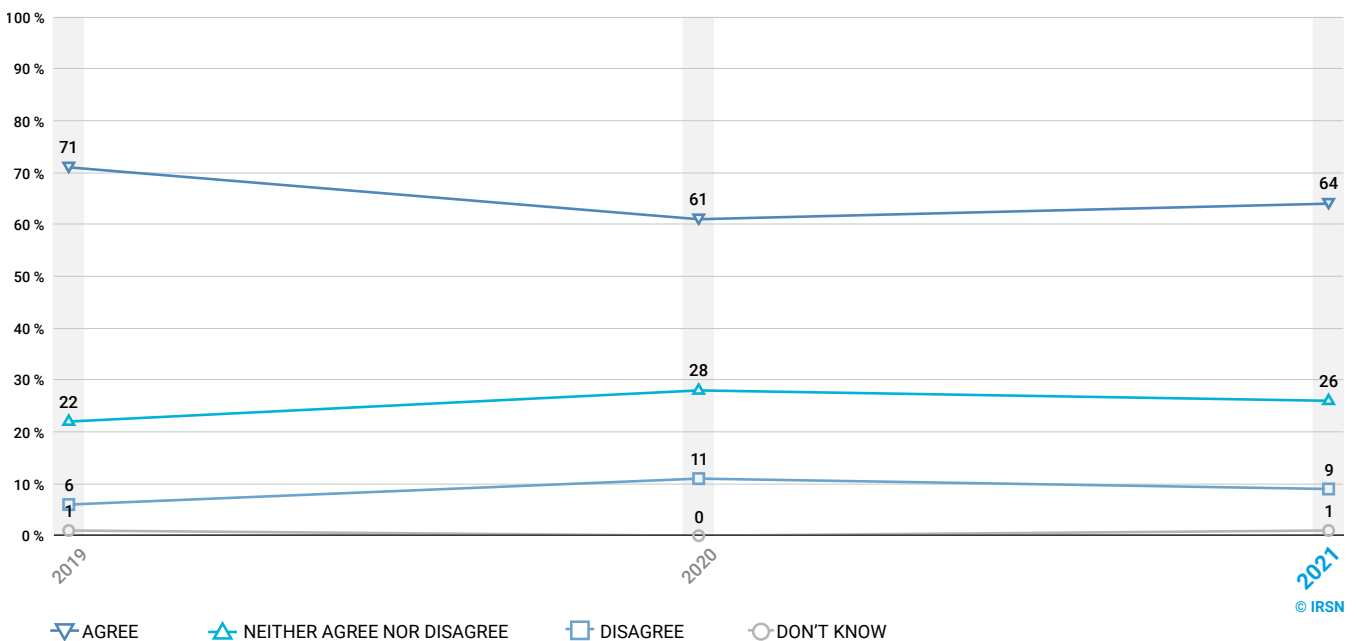


■ STRONGLY AGREE
 ■ SOMEWHAT AGREE
 ■ NEITHER AGREE NOR DISAGREE
 © IRSN
■ SOMEWHAT DISAGREE
 ■ STRONGLY DISAGREE
 ■ DON'T KNOW

**EVOLUTION OF THE RESULTS
2019 - 2021**

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

1 – I trust scientific institutions



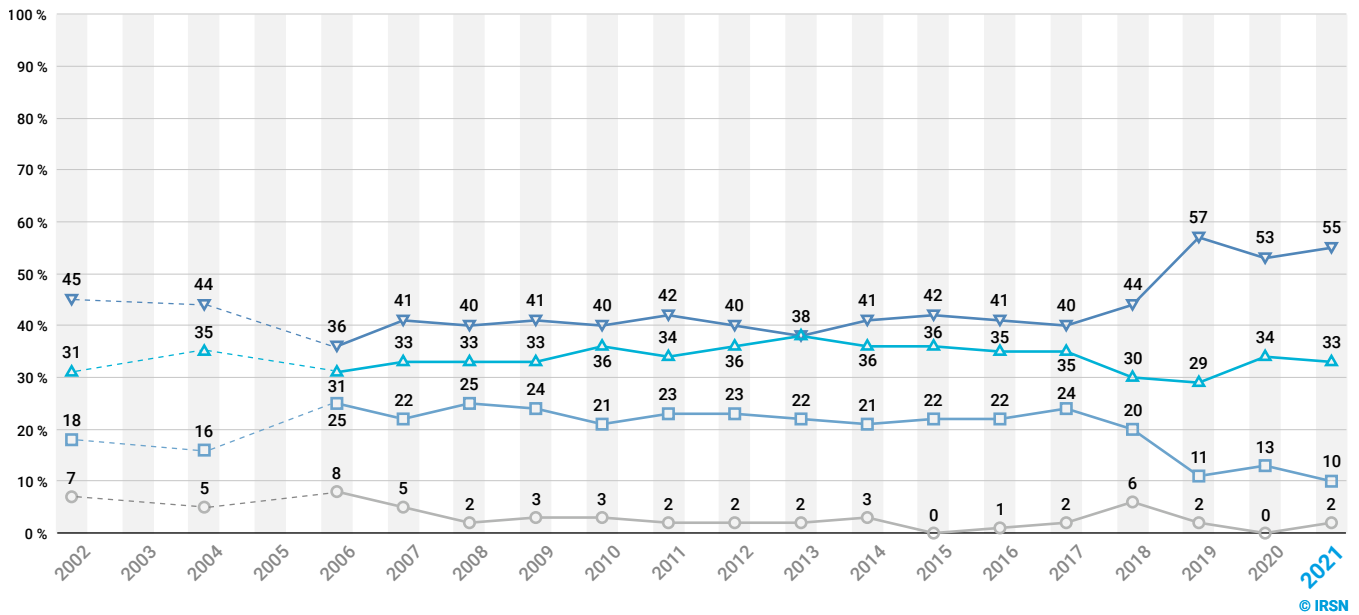
QUESTION N°1
(SERIES)

Here are a number of propositions related to science.
For each one, please indicate on the following
scale whether you...

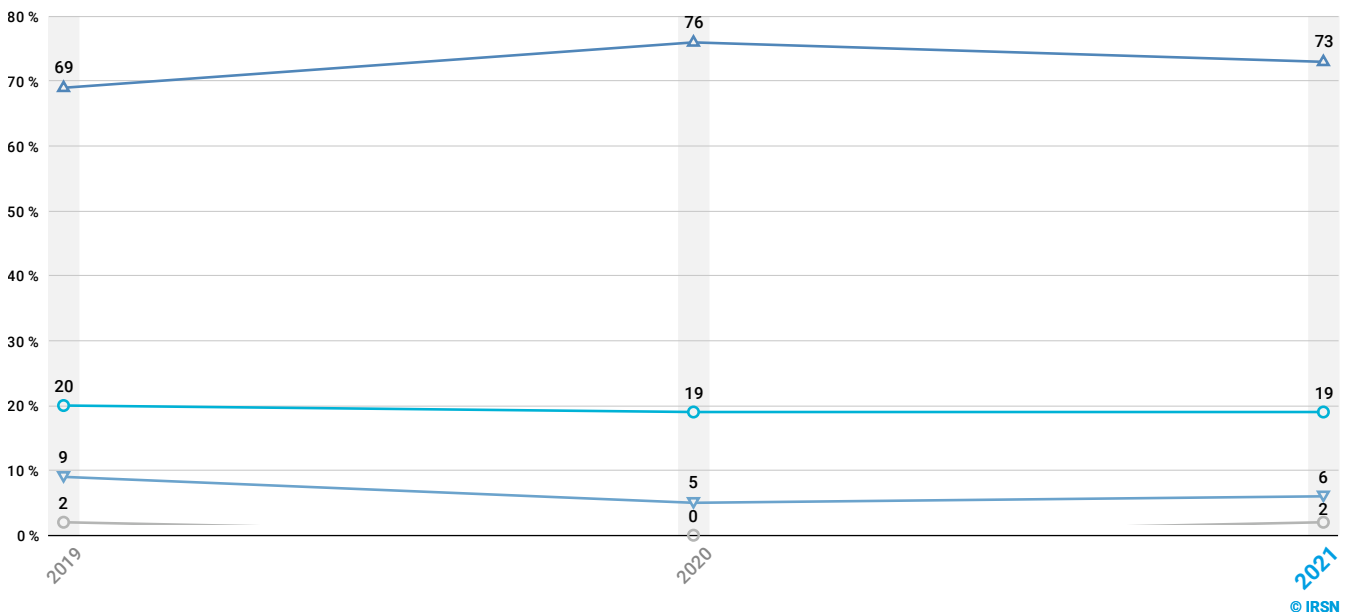
EVOLUTION OF THE RESULTS
2002 - 2021

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

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



▲ AGREE
 △ NEITHER AGREE NOR DISAGREE
 □ DISAGREE
 ○ DON'T KNOW

QUESTION N°2

Here are a number of proposals regarding scientific expertise.
 For each one, please indicate on the following scale
 whether you...

**NOVEMBER
2021**

UNDERSTANDABLE INFORMATION ON THE RISKS OF INSTALLATIONS MUST BE MADE AVAILABLE TO EVERYONE



IN THEIR POSITIONS, SCIENTIFIC EXPERTS MUST ALSO PRESENT THEIR POINTS OF DISAGREEMENT



IT IS NORMAL THAT NOT ALL SCIENTIFIC EXPERTS' POSITIONS ARE MADE PUBLIC



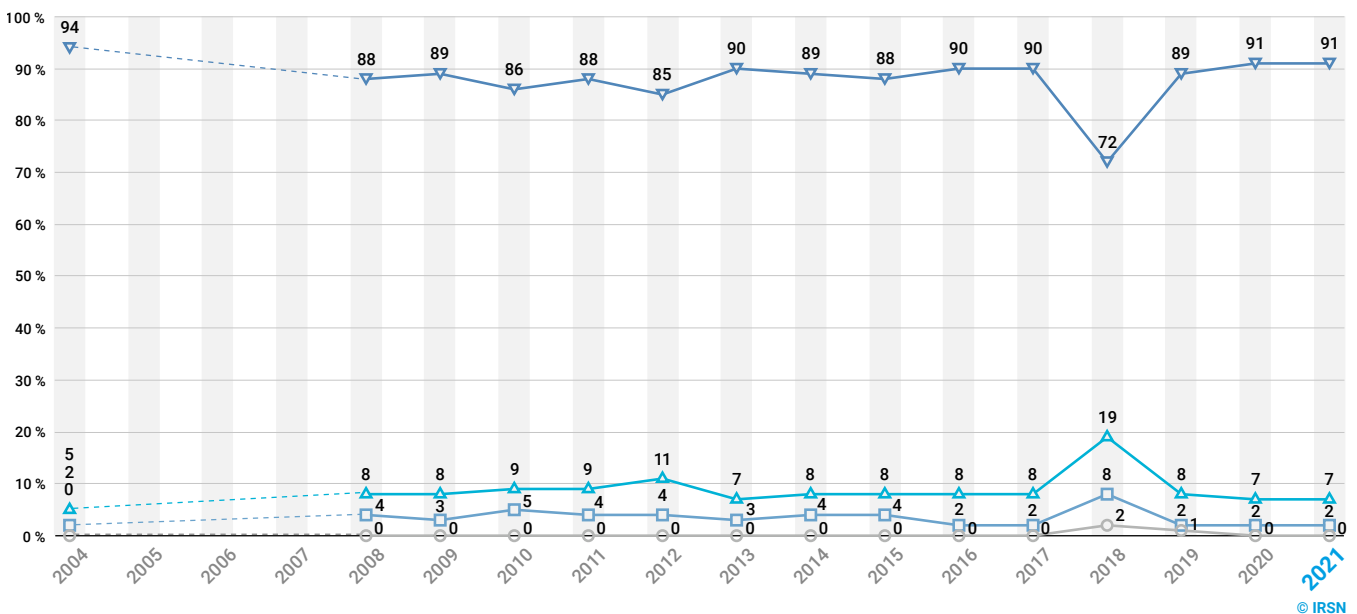
■ STRONGLY AGREE
 ■ SOMEWHAT AGREE
 ■ NEITHER AGREE NOR DISAGREE
■ SOMEWHAT DISAGREE
 ■ STRONGLY DISAGREE
 ■ DON'T KNOW

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**EVOLUTION OF THE RESULTS
2004 - 2021**

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".

1 – Understandable information on the risks of installations must be made available to everyone



▼ AGREE
 ▲ NEITHER AGREE NOR DISAGREE
 □ DISAGREE
 ○ DON'T KNOW

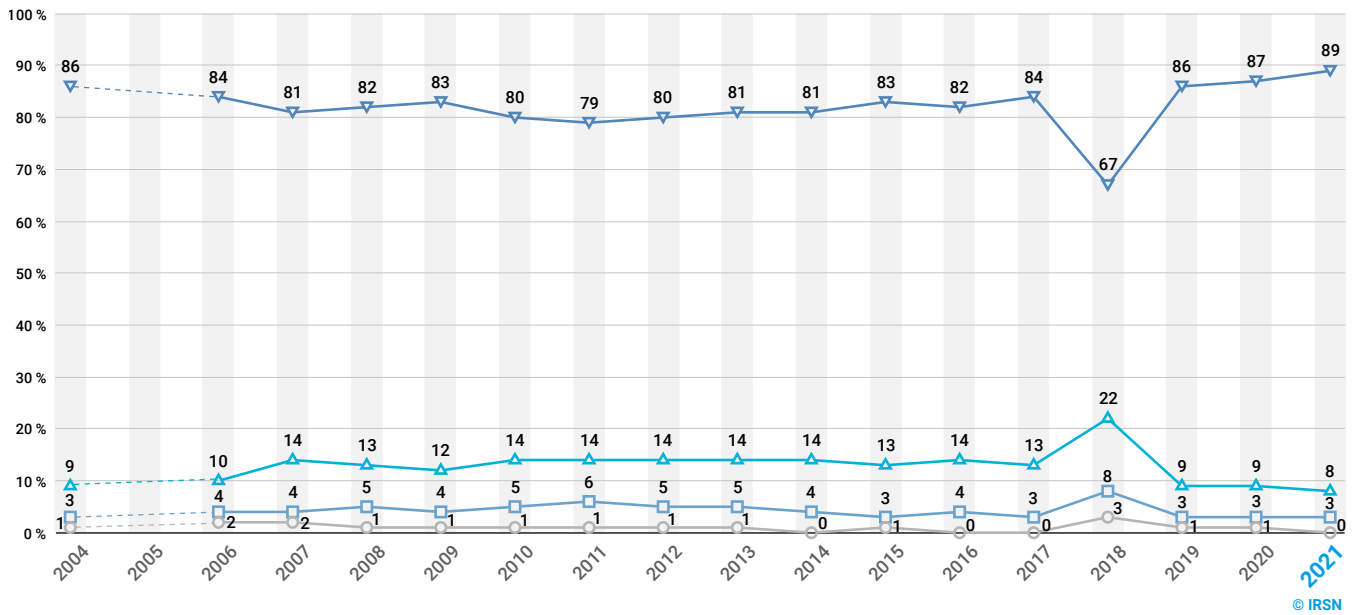
QUESTION N°2
(SERIES)

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For each one, please indicate on the following scale
whether you...

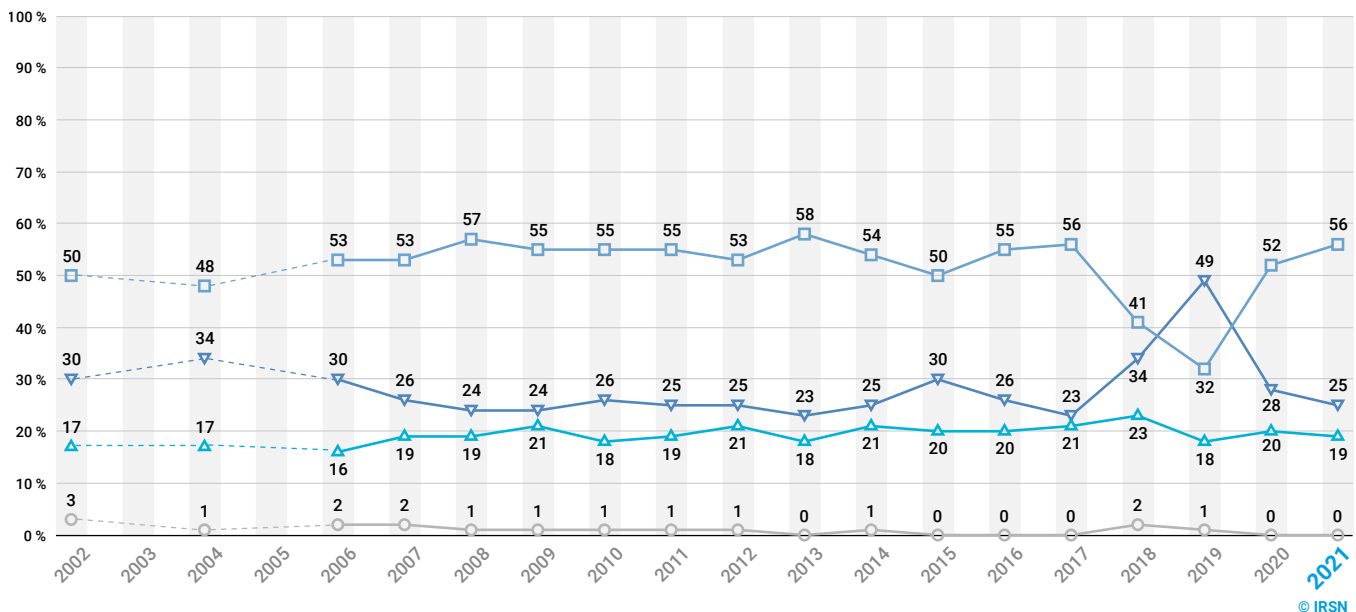
EVOLUTION OF THE RESULTS
2002 - 2021

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".

2 – In their positions, scientific experts must also present their points of disagreement



3 – It is normal that not all scientific experts' positions are made public



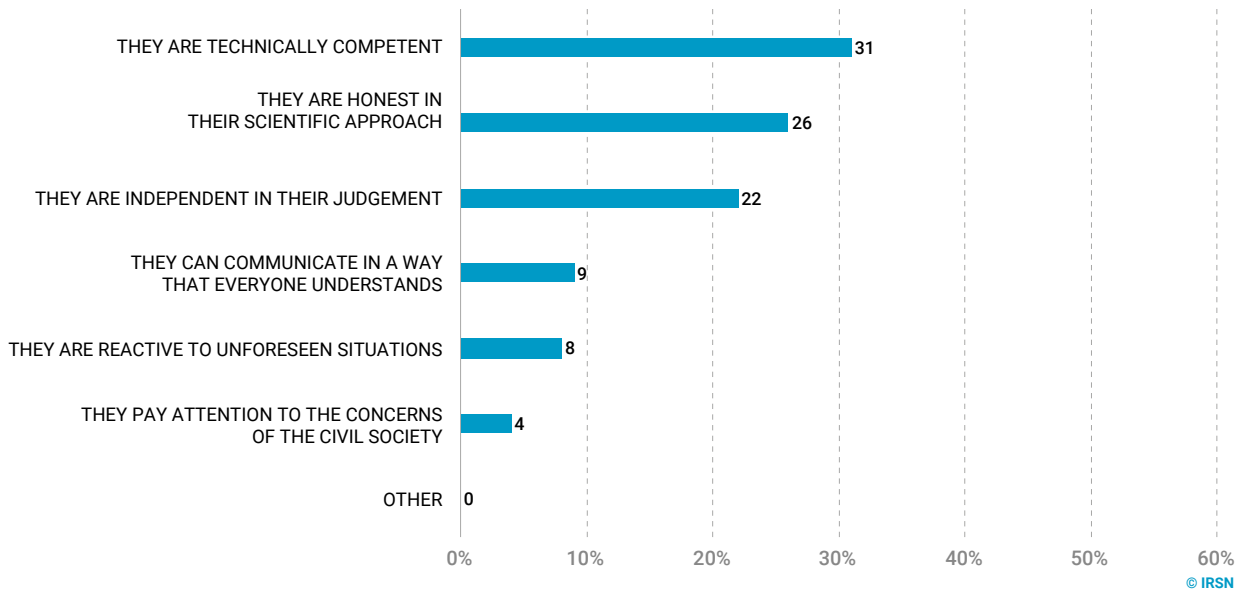
▽ AGREE
 △ NEITHER AGREE NOR DISAGREE
 □ DISAGREE
 ○ DON'T KNOW

QUESTION N°3

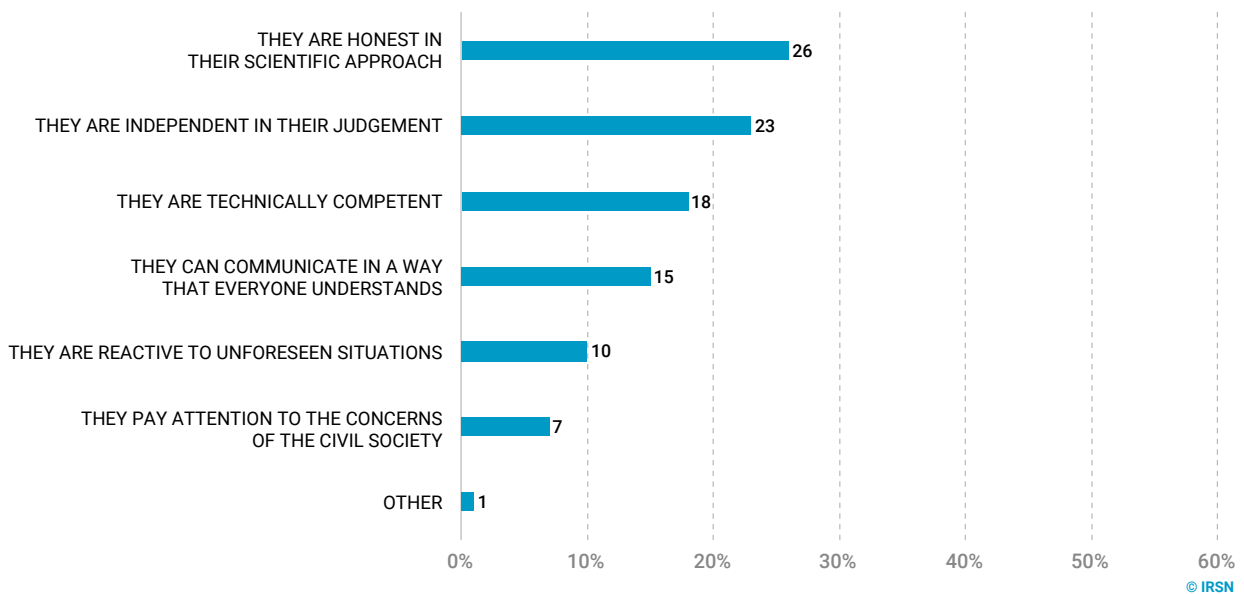
What are, in your opinion, the two most important qualities of scientific experts? First? Second?

NOVEMBER 2021

1 – First



2 – Second

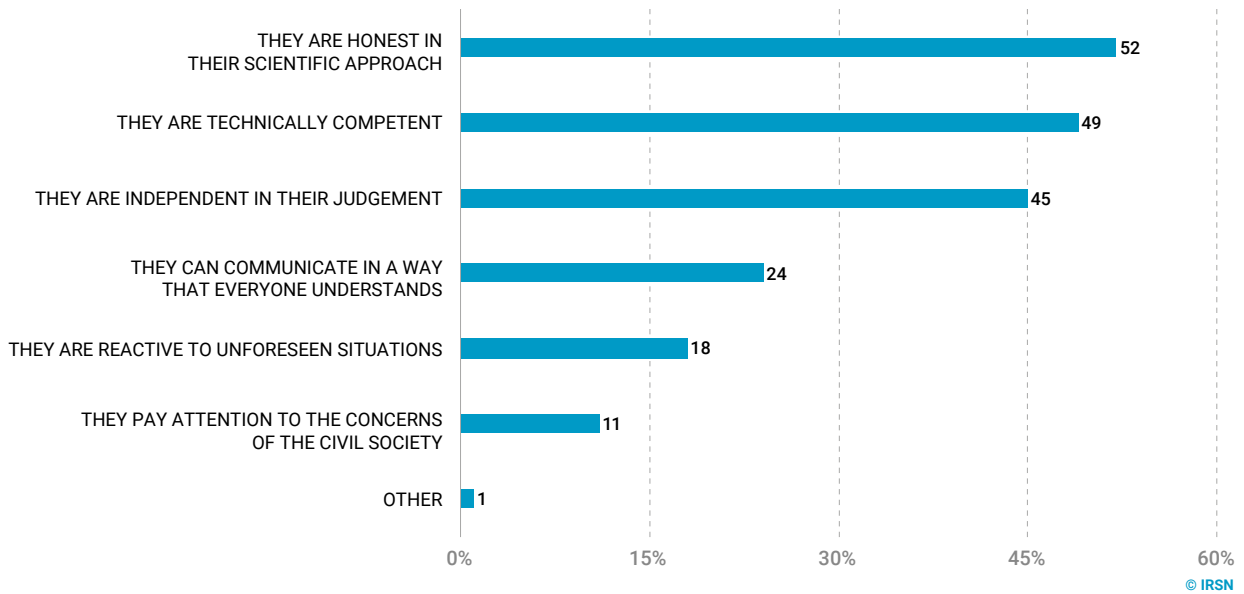


QUESTION N°3
(SERIES)

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

NOVEMBER
2021

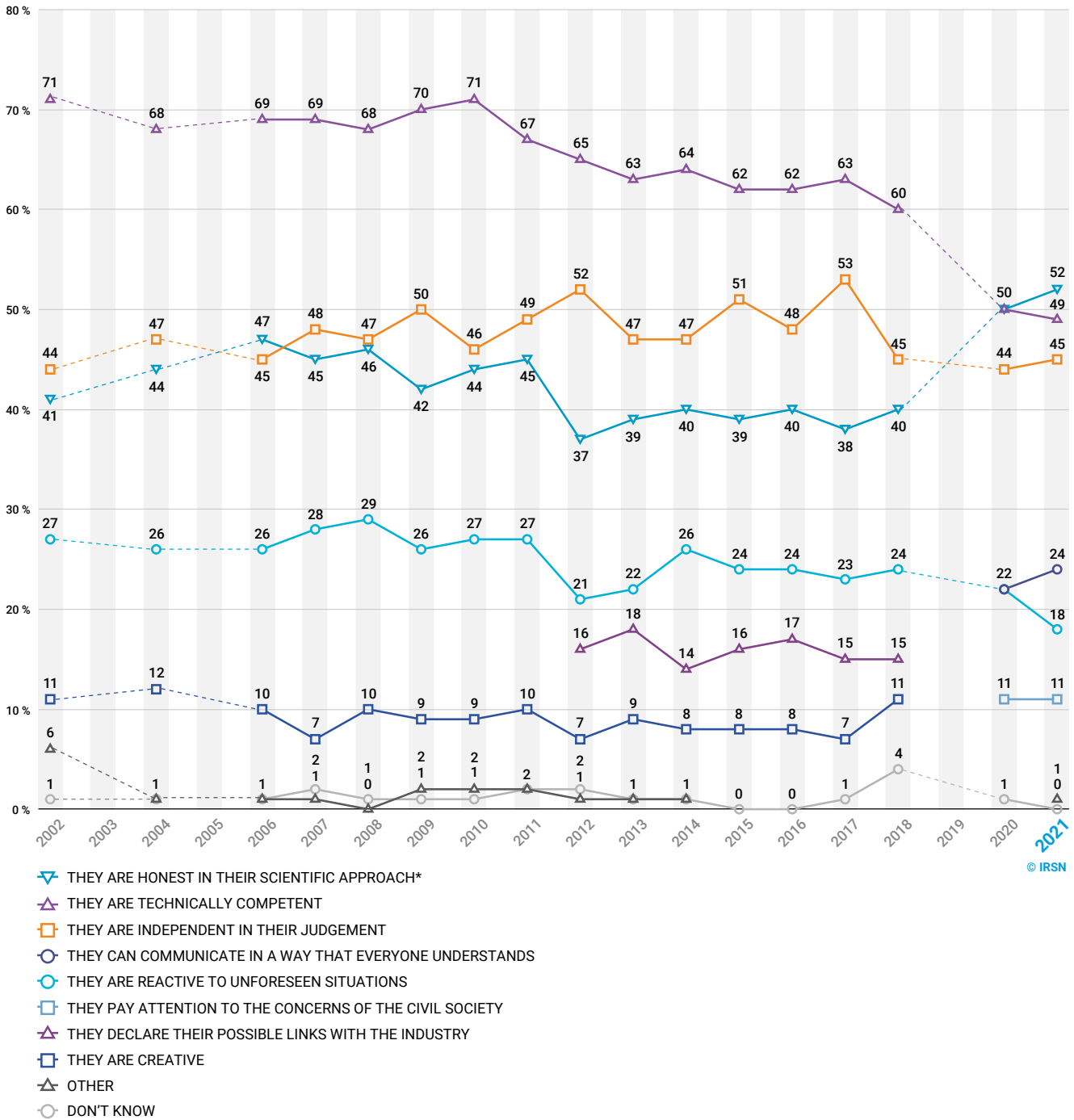
3 – Cumulative results



QUESTION N°3
(SERIES)

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

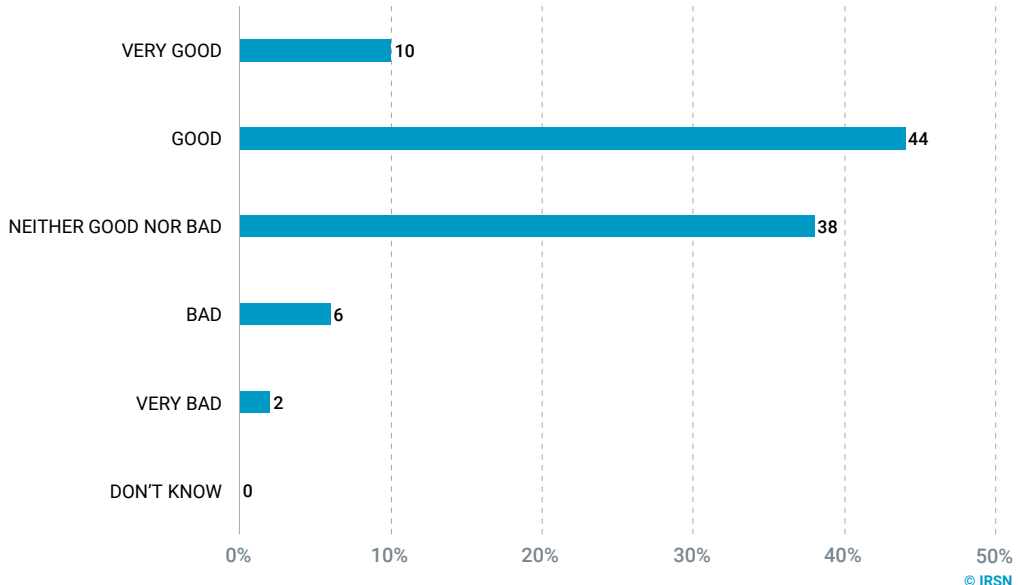
EVOLUTION OF THE CUMULATIVE RESULTS 2002 - 2021



* In 2020, the answers "They declare their possible links with the industry" and "They are creative" were removed, and "They can communicate in a way that everyone understands" 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".

QUESTION N°4 : In general, do you have a good or a bad opinion of scientific experts?

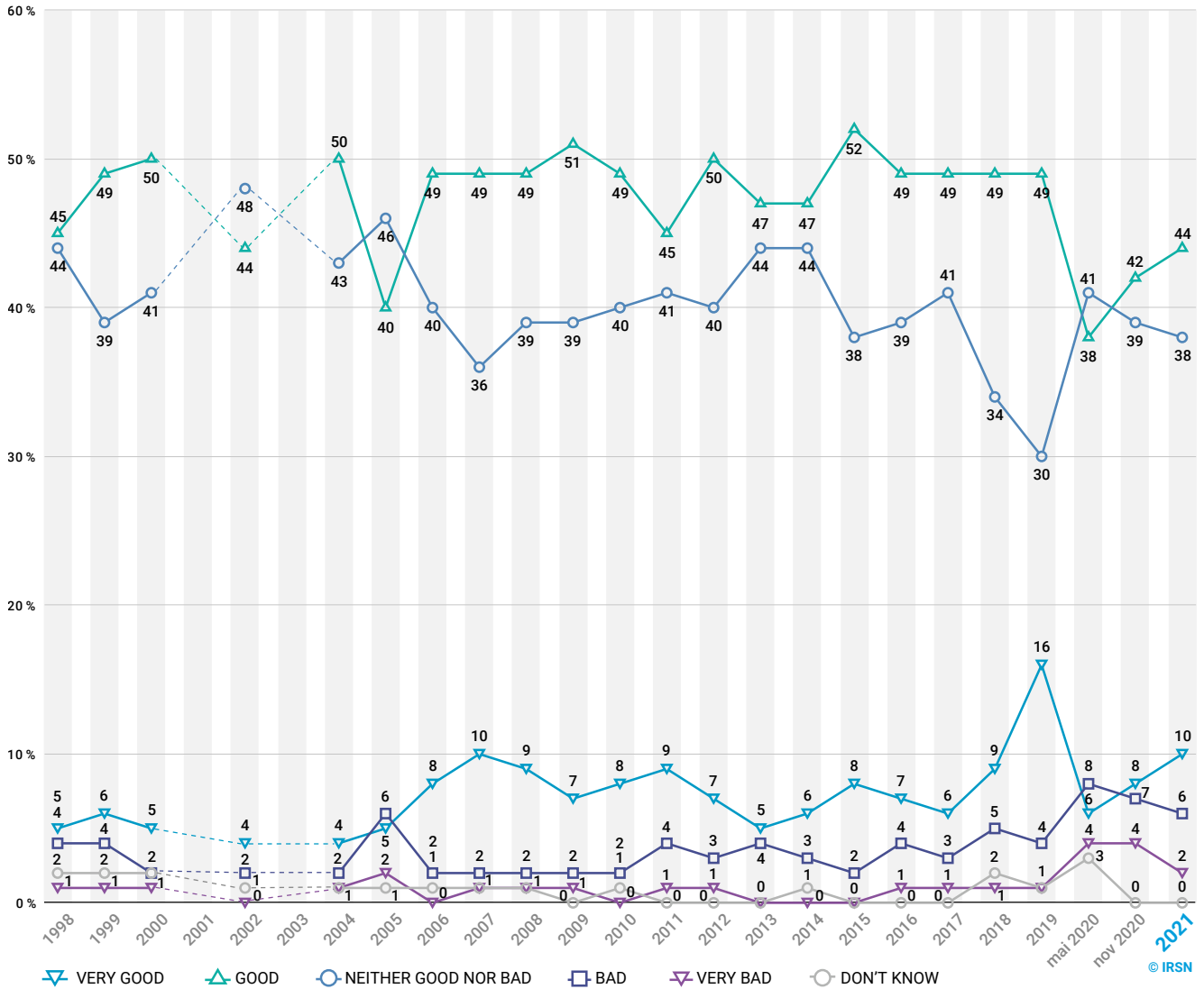
NOVEMBER 2021



QUESTION N°4
(SERIES)

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

EVOLUTION OF THE CUMULATIVE RESULTS 1998 - 2021



QUESTION N°5

Here are three sentences regarding experts and decision-makers. For each one, please indicate whether you...

NOVEMBER 2021

WE MUST BE CERTAIN OF THE SCIENTIFIC EXPERTS' POSITIONS BEFORE INFORMING THE PUBLIC



WHEN IT COMES TO RISK, IT IS NORMAL TO TAKE EVERY PRECAUTION EVEN WHEN THE SCIENTISTS ONLY HAVE DOUBTS



POLICY MAKERS DON'T TAKE ENOUGH INTO ACCOUNT THE POSITIONS OF SCIENTIFIC EXPERTS



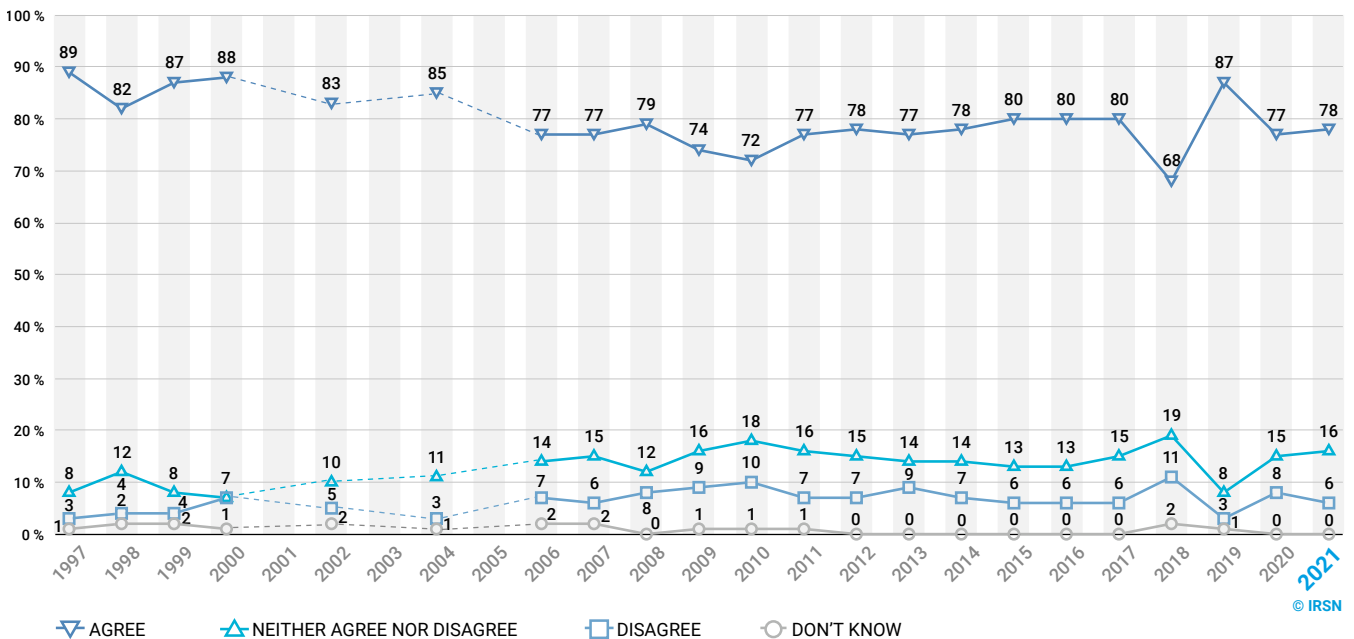
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Legend:
 ■ STRONGLY AGREE
 ■ SOMEWHAT AGREE
 ■ NEITHER AGREE NOR DISAGREE
 ■ SOMEWHAT DISAGREE
 ■ STRONGLY DISAGREE
 ■ DON'T KNOW

EVOLUTION OF THE RESULTS 1997 - 2021

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".

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



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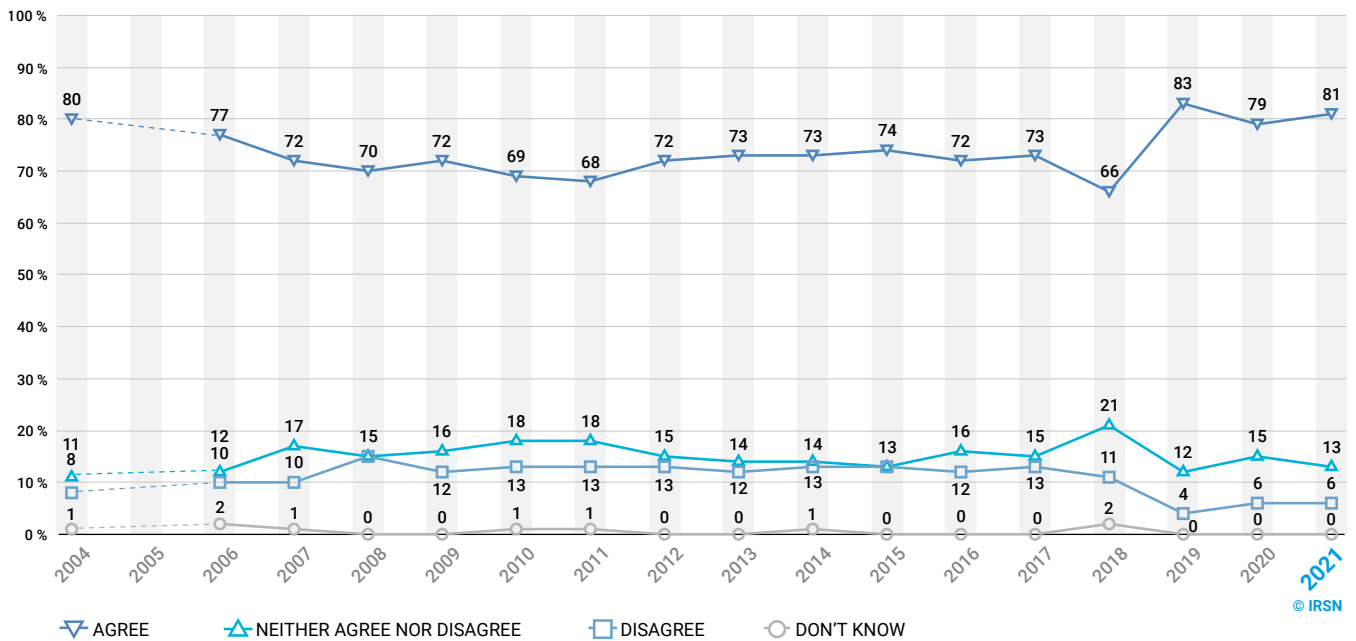
QUESTION N°5
(SERIES)

Here are three sentences regarding experts and decision-makers. For each one, please indicate whether you...

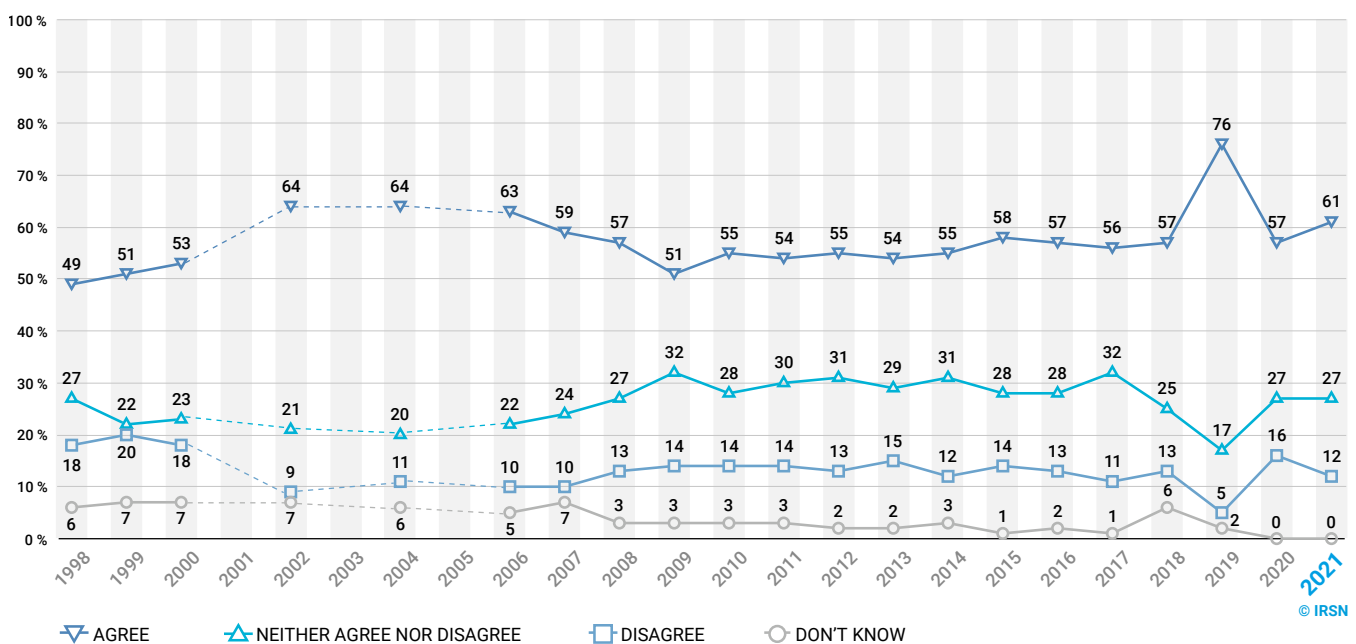
EVOLUTION OF THE RESULTS
1998 - 2021

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".

2 – We must be certain of the scientific experts' positions before informing the public



3 – Policy makers don't take enough into account the positions of scientific experts



QUESTION N°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 2021

MAKE PUBLIC ITS EXPERTISE REPORTS



ANSWER ALL THE QUESTIONS RAISED BY NGOS AND CITIZENS



MAKE AVAILABLE TO ALL THE LIST OF ALL ITS CURRENT WORK



ORGANIZE PUBLIC MEETINGS TO DISCUSS ITS WORK



ORGANIZE WEBINARS (ON THE INTERNET) TO PRESENT AND DEBATE ABOUT ITS PROJECTS



■ A PRIORITY ■ SECONDARY ■ USELESS ■ DON'T KNOW

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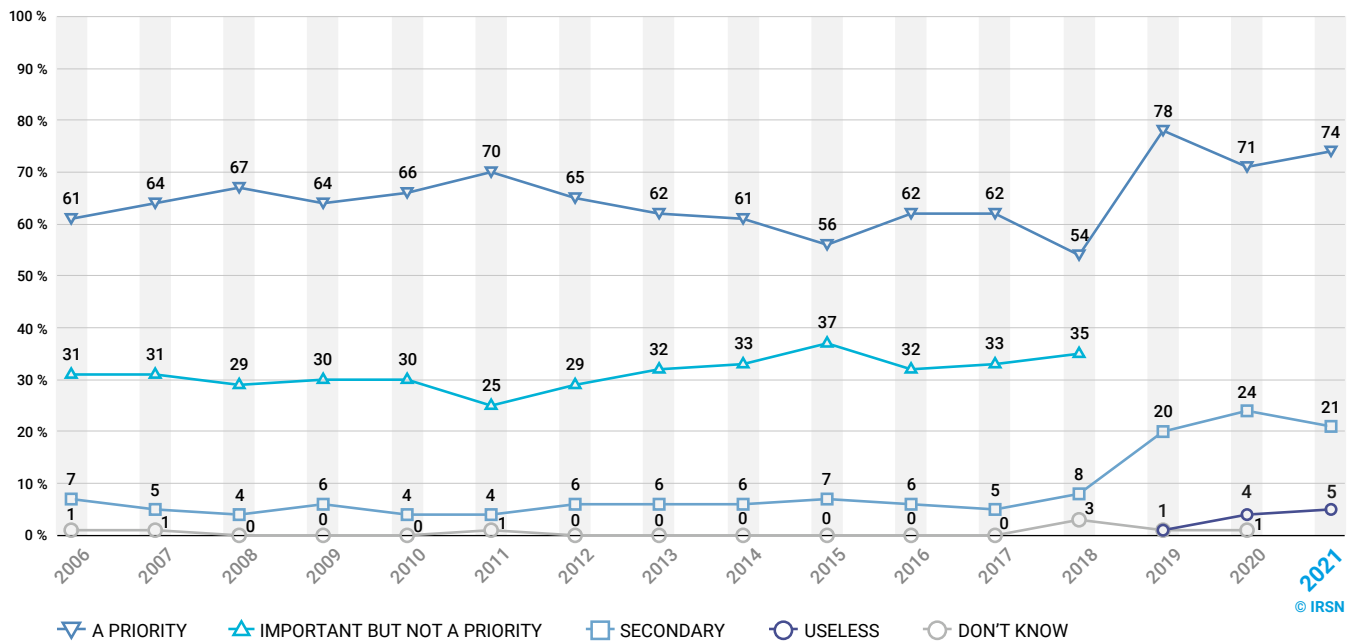
QUESTION N°6
(SERIES)

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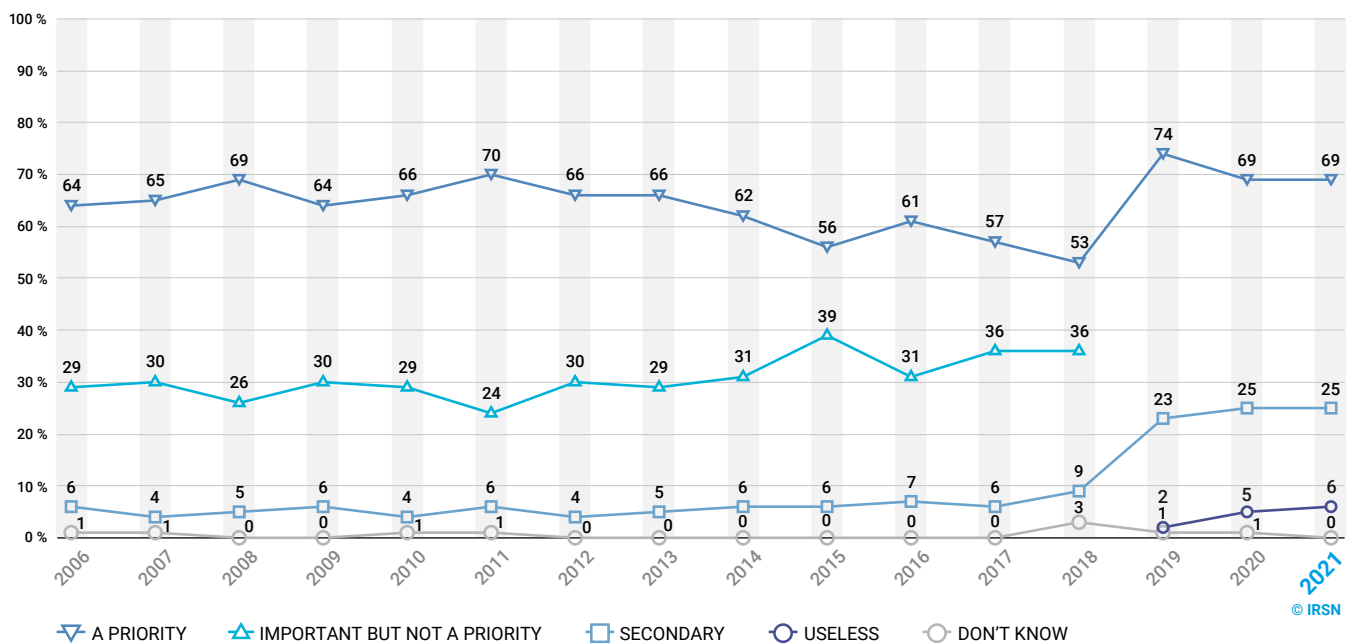
EVOLUTION OF THE RESULTS
2006 - 2021

In 2019, the answer "Important but not a priority" has been replaced by "Useless". 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.

1 – Make public its expertise reports



2 – Answer all questions raised by NGOs and citizens



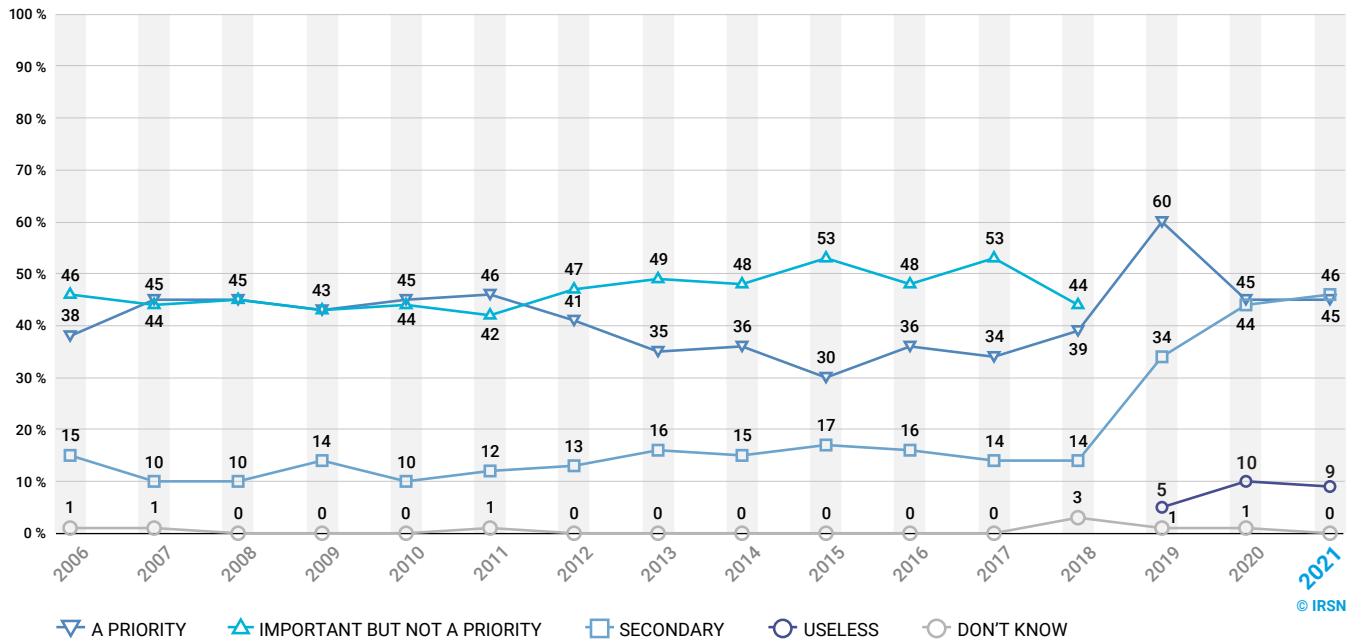
QUESTION N°6
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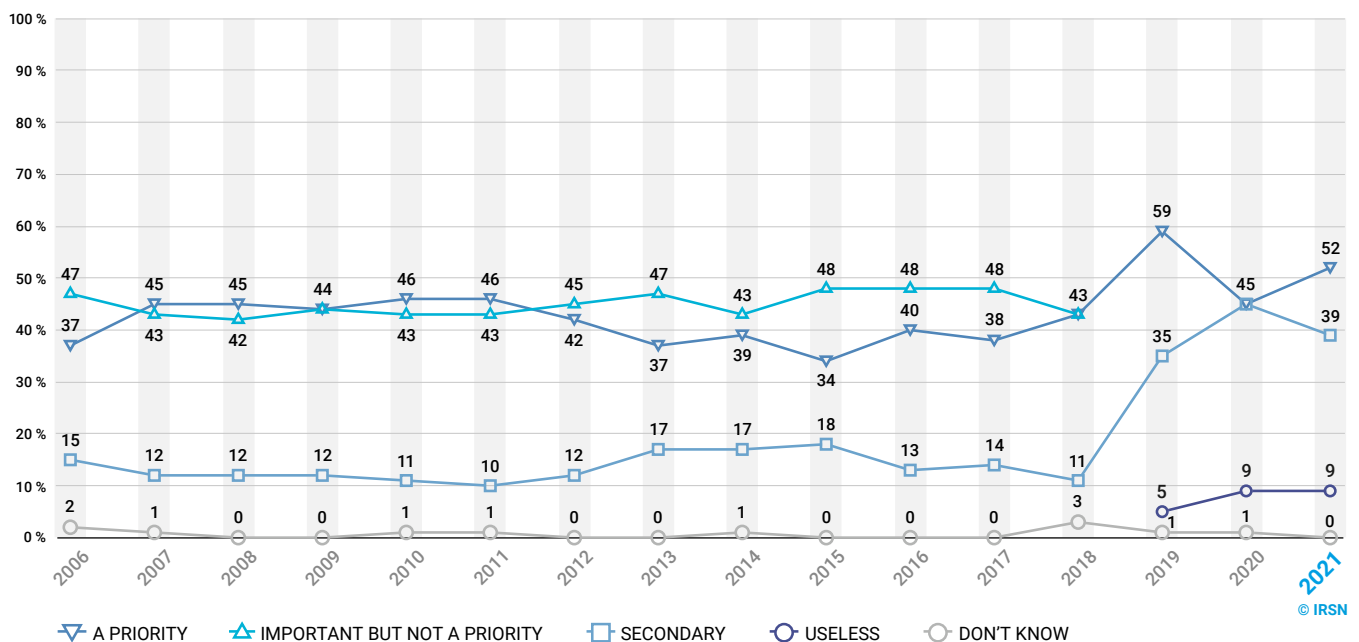
EVOLUTION OF THE RESULTS
2006 - 2021

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3 – Organize public meetings to discuss its work



4 – Make available to all the list of all its current work



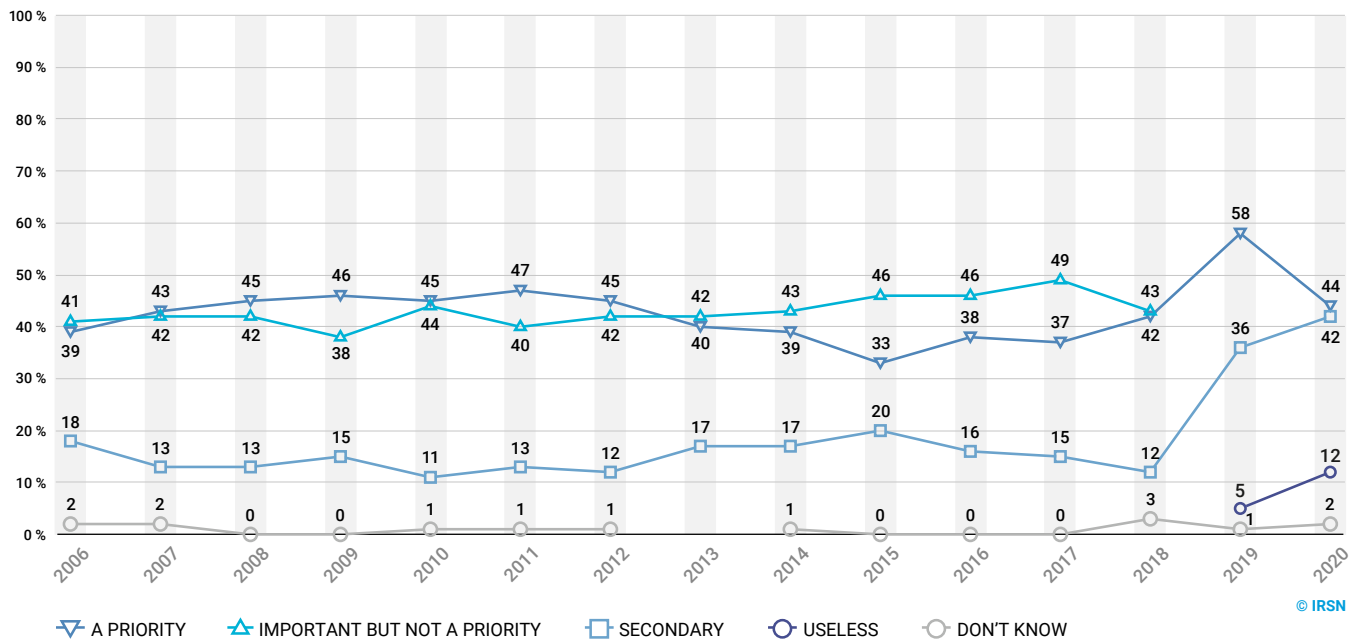
QUESTION N°6
(SERIES)

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.

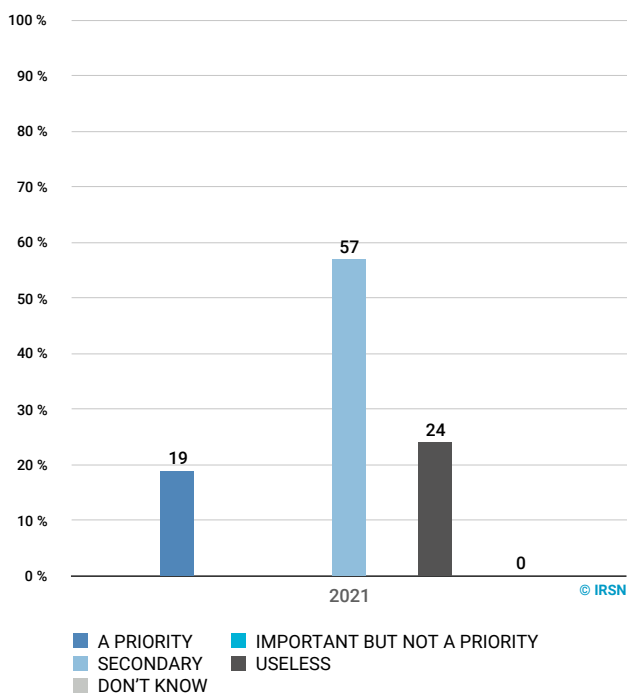
EVOLUTION OF THE RESULTS
2006 - 2021

In 2019, the answer "Important but not a priority" has been replaced by "Useless". 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.

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



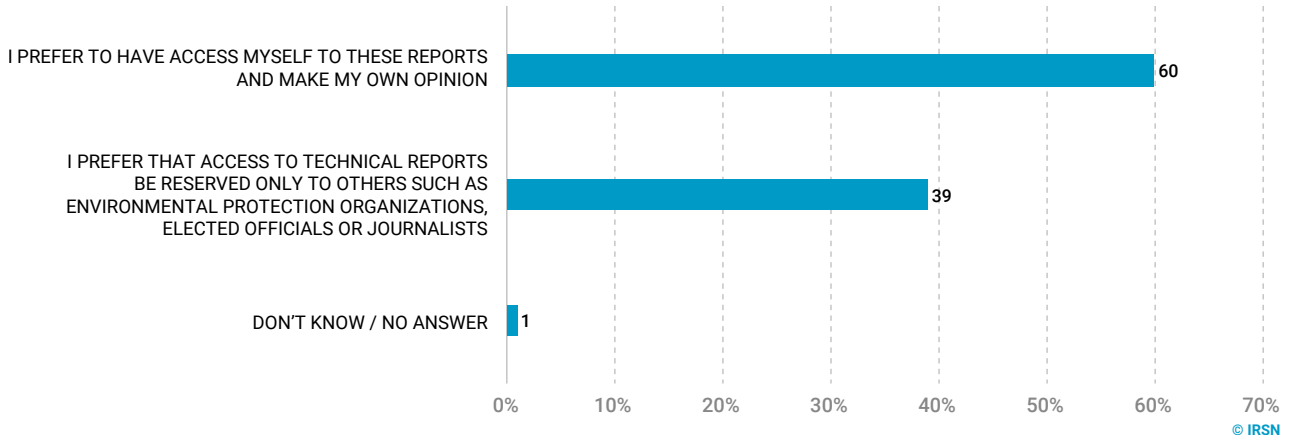
6 – Organize webinars (on the internet) to present and debate about its projects



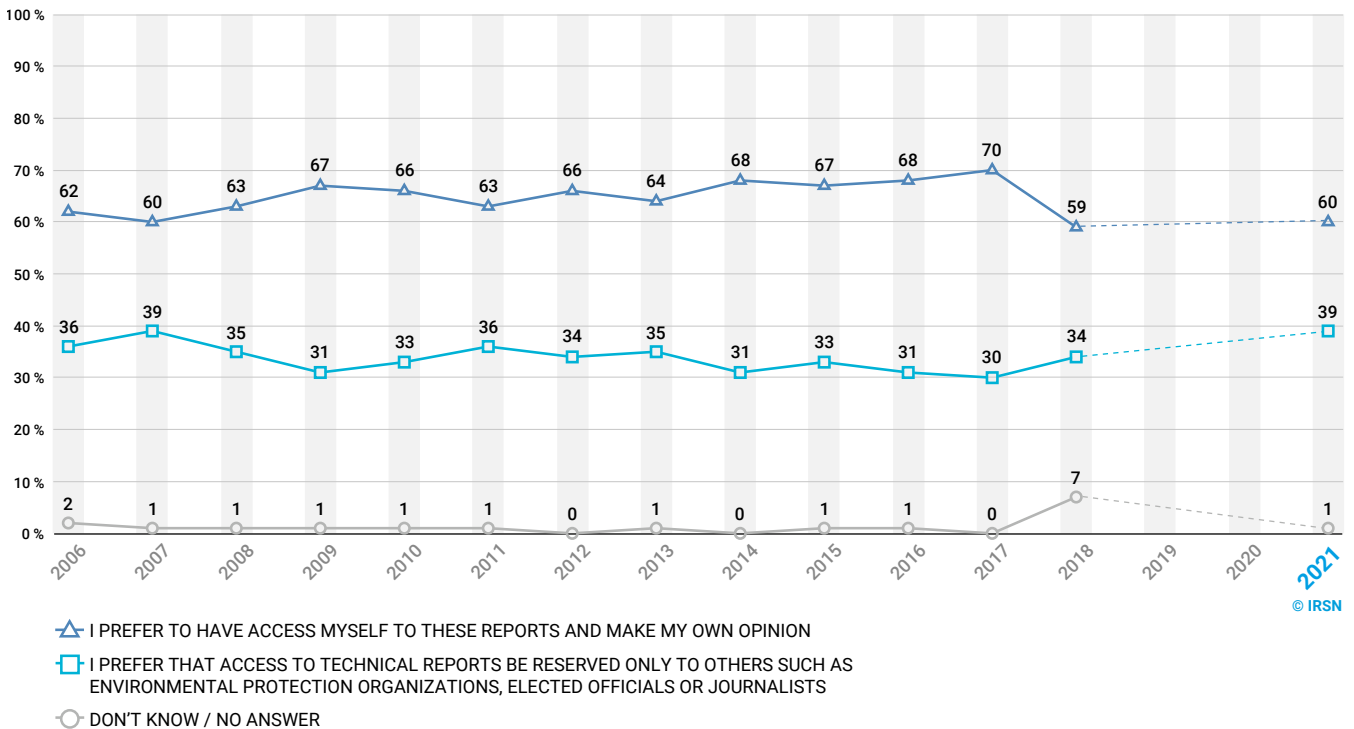
QUESTION N°7

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 2021



EVOLUTION OF THE RESULTS 2006 - 2021*



* 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.

QUESTION N°8

Here are two propositions regarding access to experts by the public. For each one, please indicate if it seems important to you

NOVEMBER 2021

GRANT NONPROFIT ORGANIZATIONS THE POSSIBILITY TO REQUEST AN EXPERTISE FROM AN AGENCY OR PUBLIC EXPERTISE BODY



GRANT CITIZENS THE POSSIBILITY TO REQUEST AN EXPERTISE FROM AN AGENCY OR PUBLIC EXPERTISE BODY IF THEY ARE SUFFICIENTLY NUMEROUS



■ VERY IMPORTANT ■ SOMEWHAT IMPORTANT ■ NOT IMPORTANT ■ DON'T KNOW

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QUESTION N°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 2021

COUNTERTERRORISM



THE LACK OF SCIENTIFIC CERTAINTY



"TOP SECRET" CLASSIFICATION



THE FACT THAT THE DECISION RELATED TO THE RESULT OF THE EXPERTISE HAS NOT YET BEEN TAKEN



THE IMPOSSIBILITY TO EXPRESS THE RESULTS IN TERMS UNDERSTANDABLE BY THE PUBLIC



TRADE SECRET



■ YES, DEFINITELY ■ YES, SOMEWHAT ■ NO, NOT REALLY ■ NO, NOT AT ALL ■ DON'T KNOW

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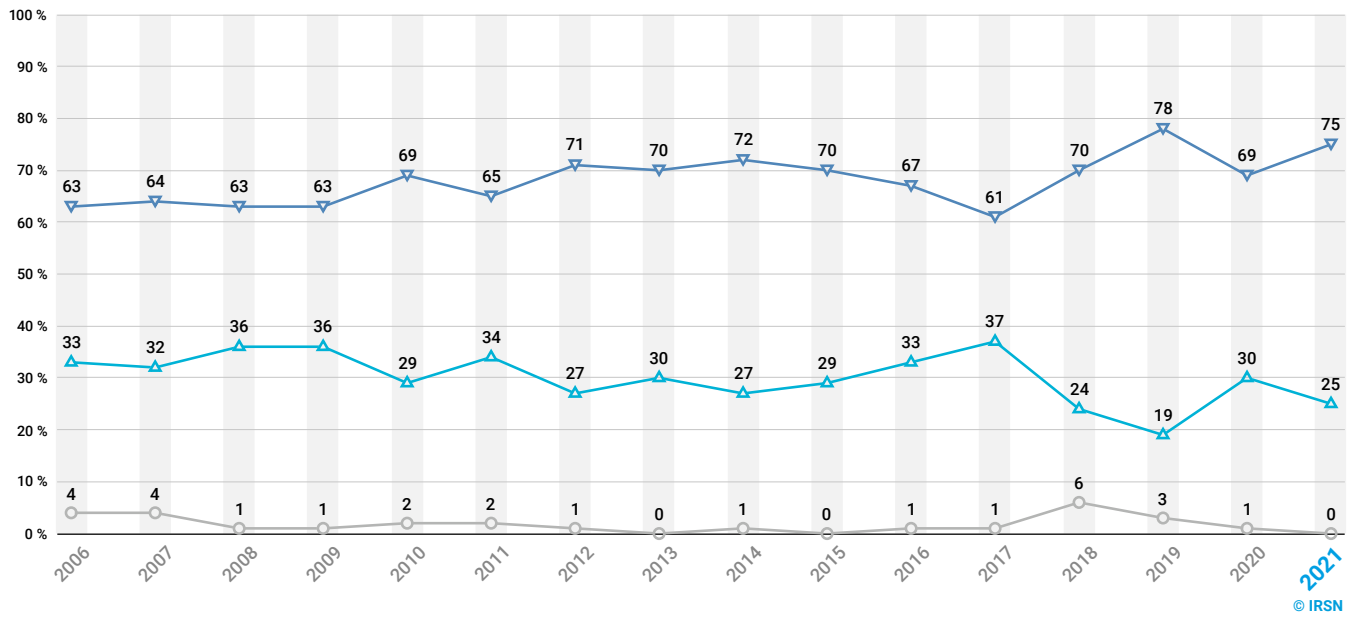
QUESTION N°9
(SERIES)

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.

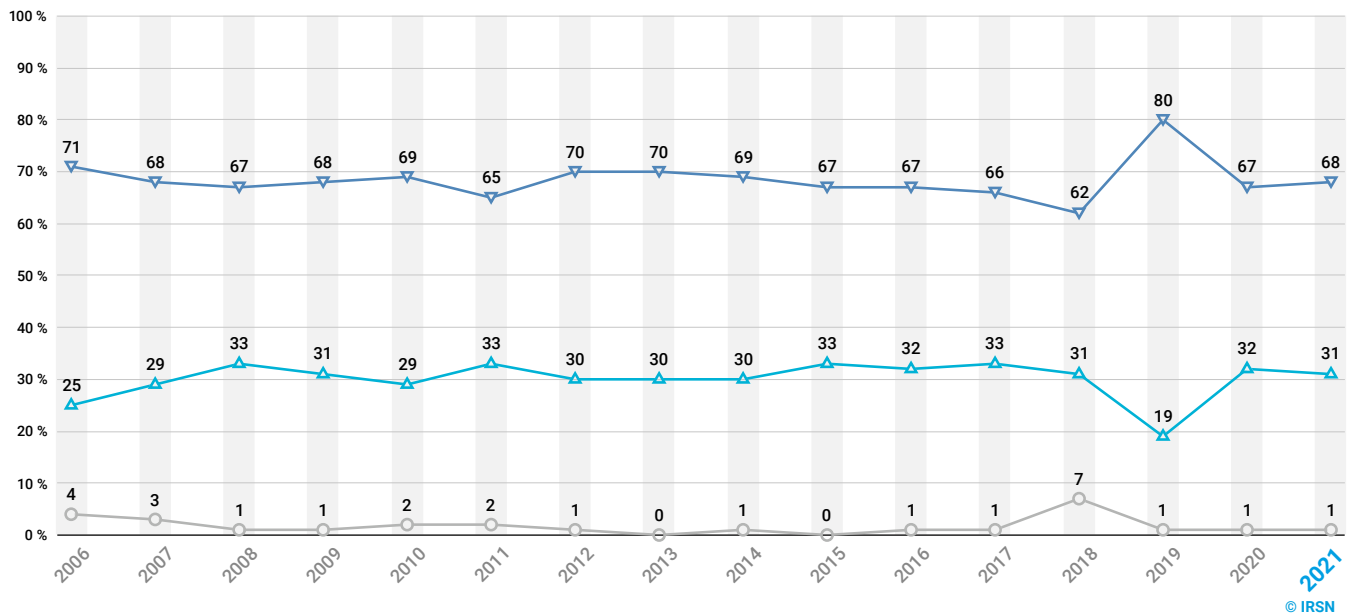
EVOLUTION OF THE RESULTS
2006 - 2021

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

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 ○ DON'T KNOW

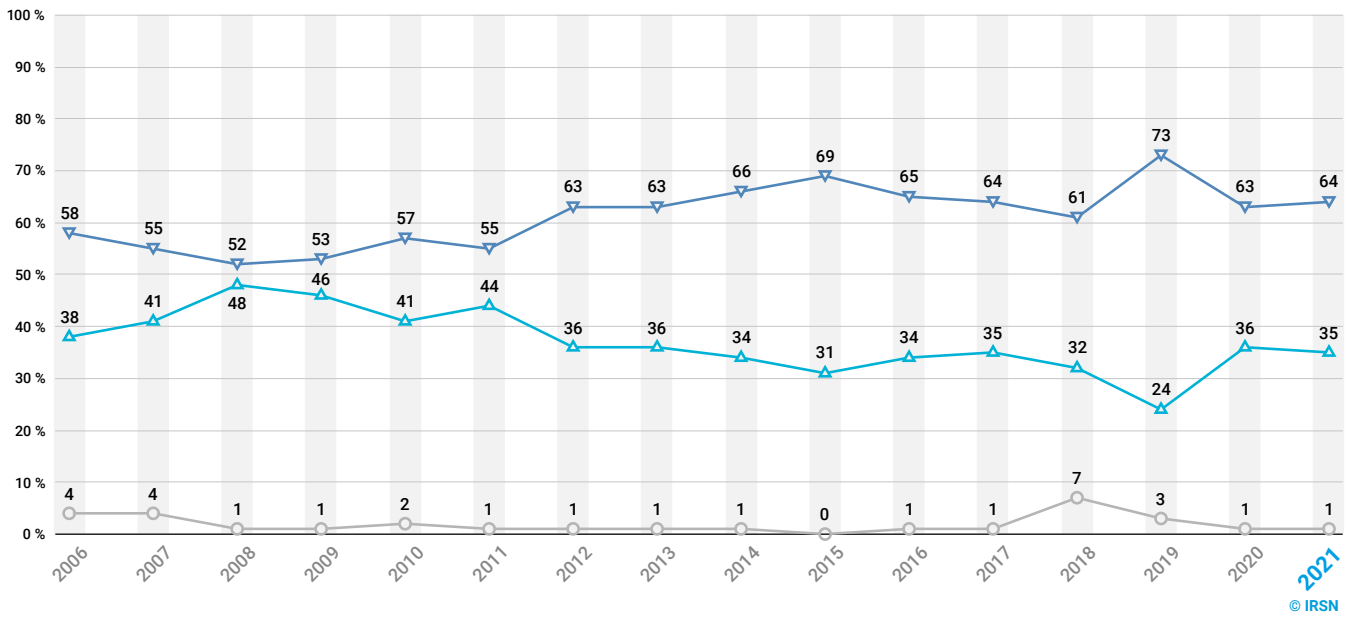
QUESTION N°9
(SERIES)

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.

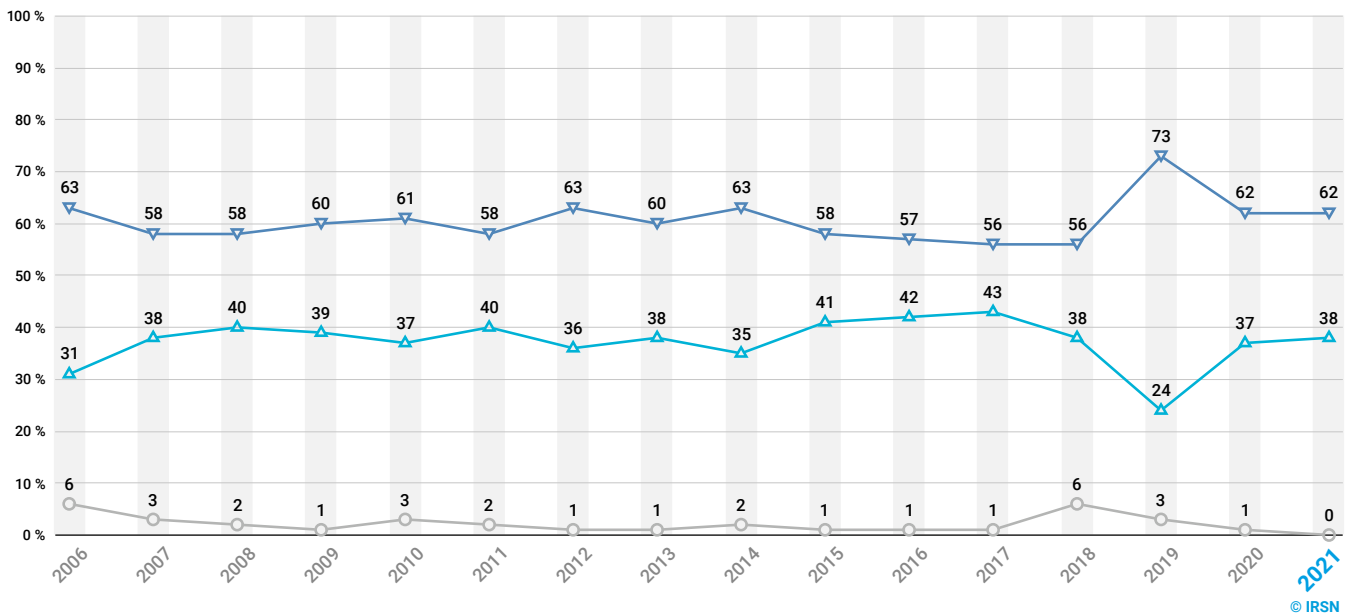
EVOLUTION OF THE RESULTS
2006 - 2021

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

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 ○ DON'T KNOW

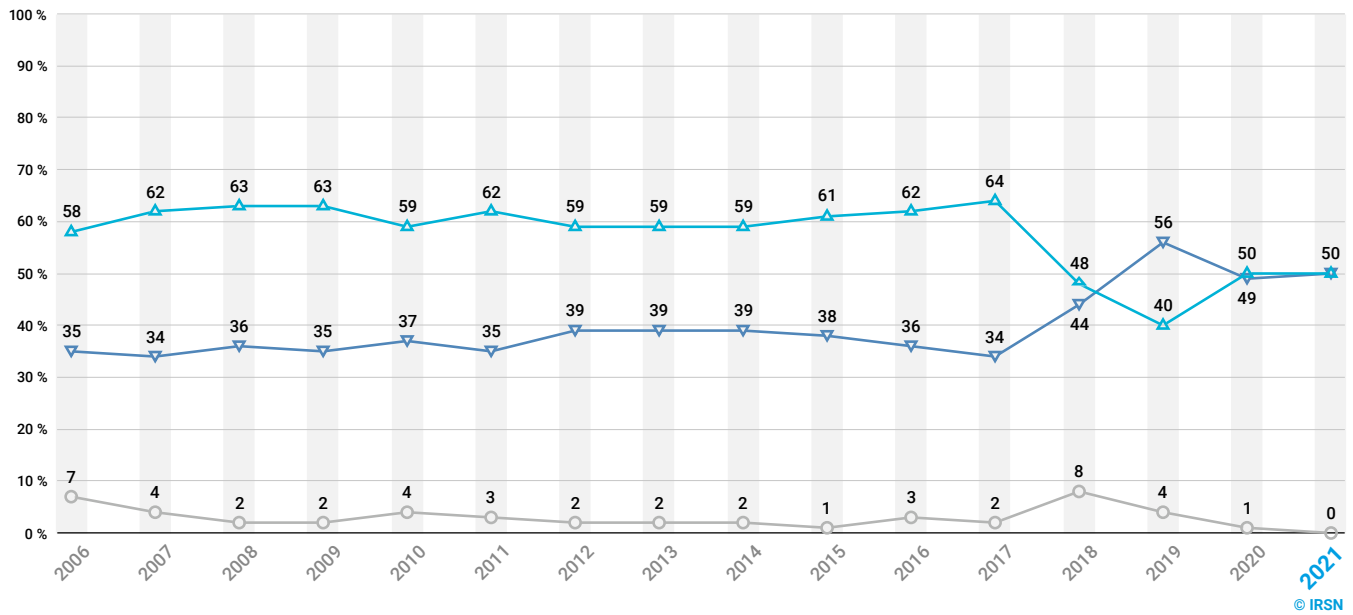
QUESTION N°9
(SERIES)

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 - 2021

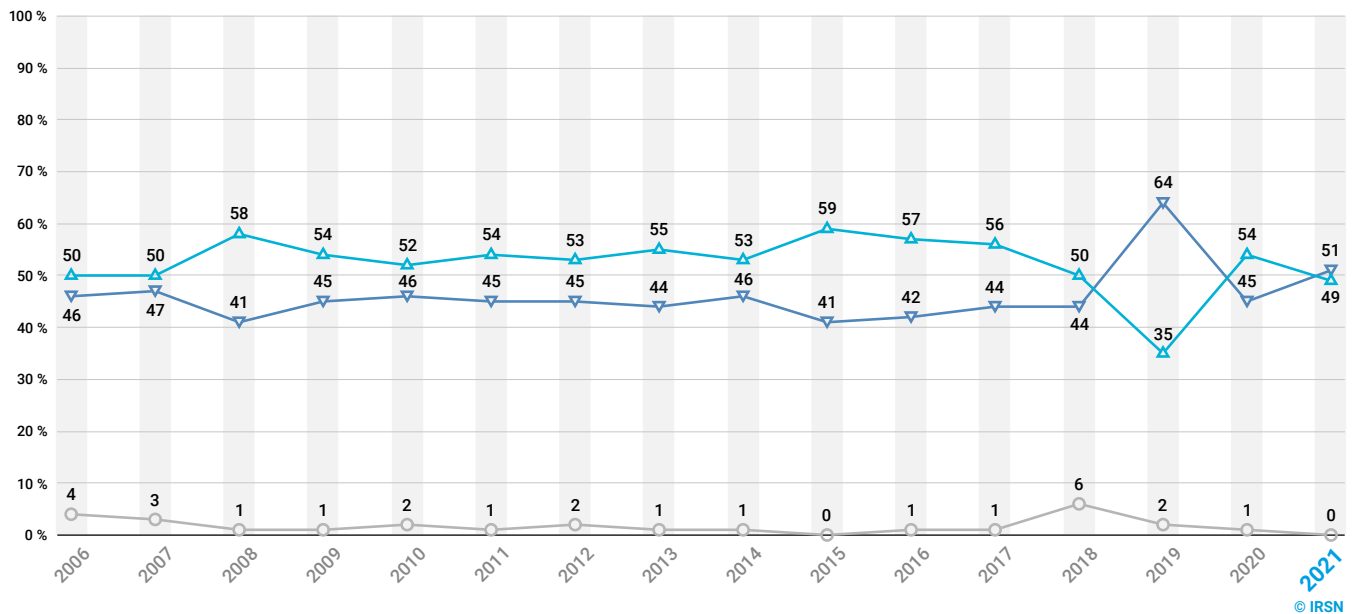
The answers "Yes, definitely" and "Yes, somewhat" were grouped together as "Yes"; the answers "No, not really" and "No, not at all" as "No".

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

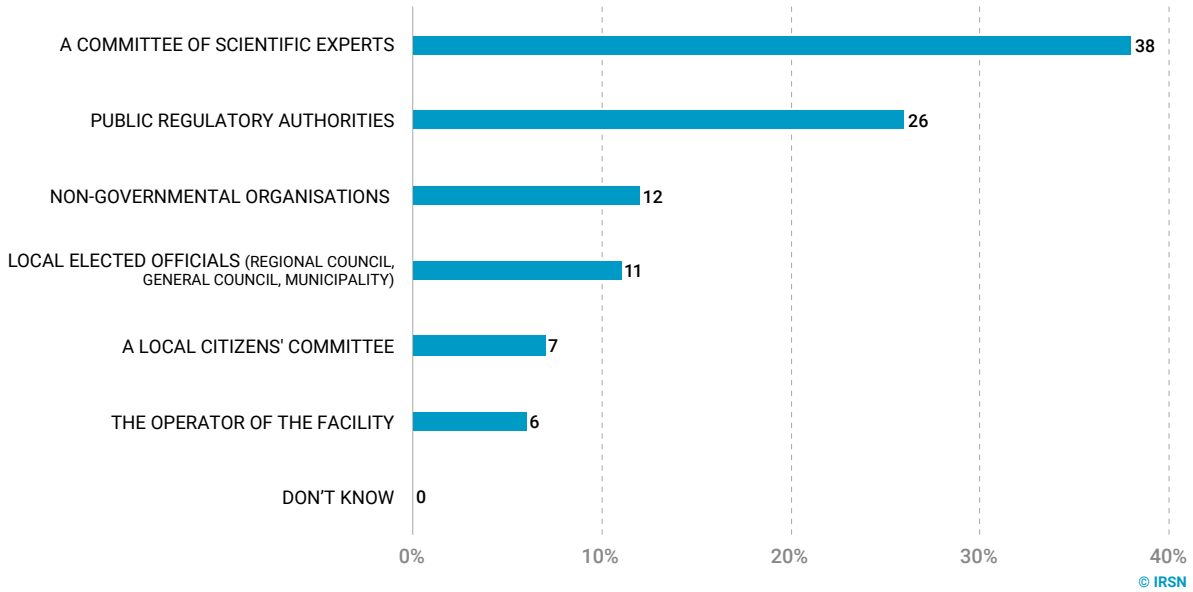


▽ YES / AGREE ▲ NO / DISAGREE ○ DON'T KNOW

QUESTION N°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?*

**NOVEMBER
2021**

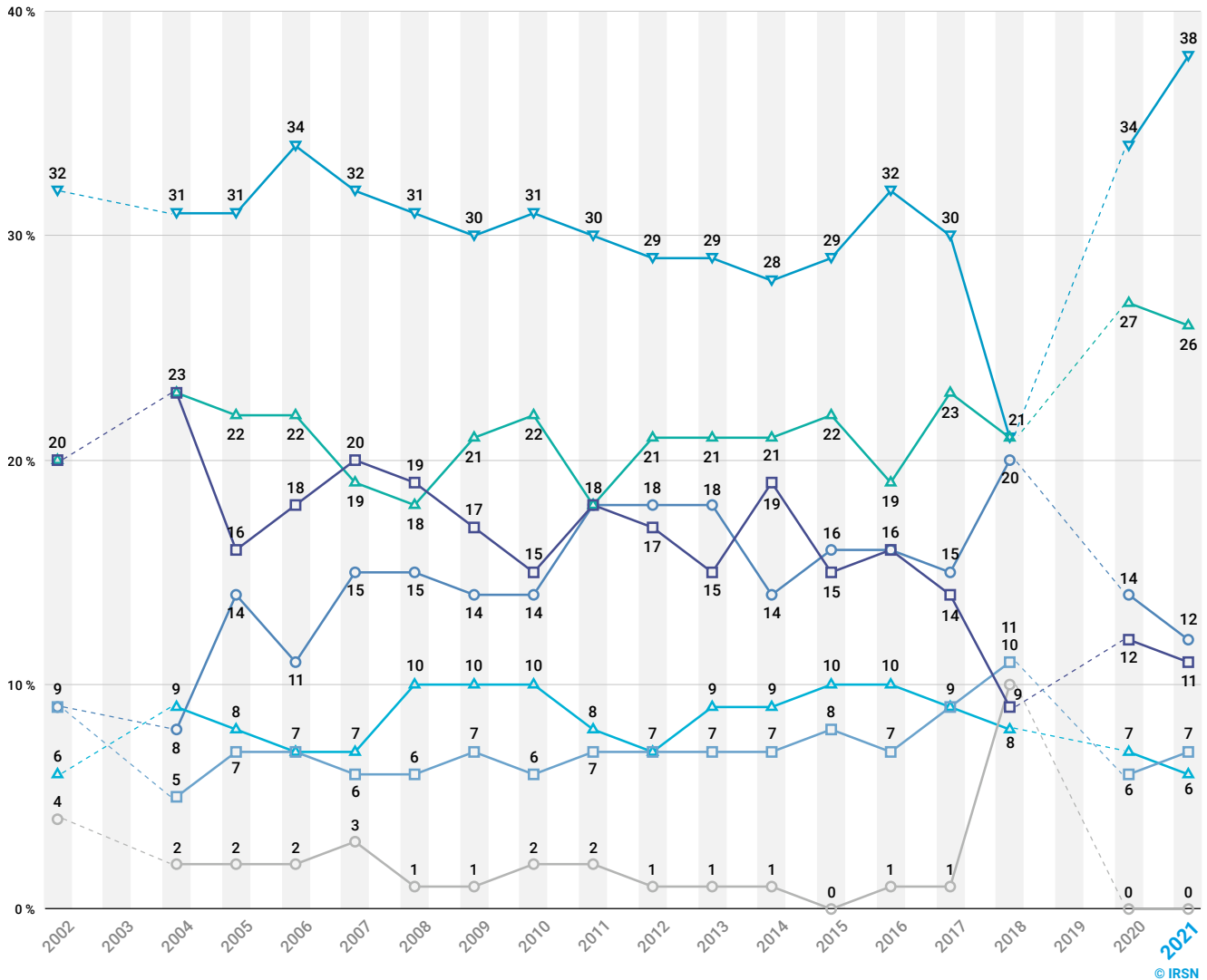


* Only one answer possible.

QUESTION N°10
(SERIES)

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? * (Only one answer possible)

EVOLUTION OF THE CUMULATIVE RESULTS 2002 - 2021



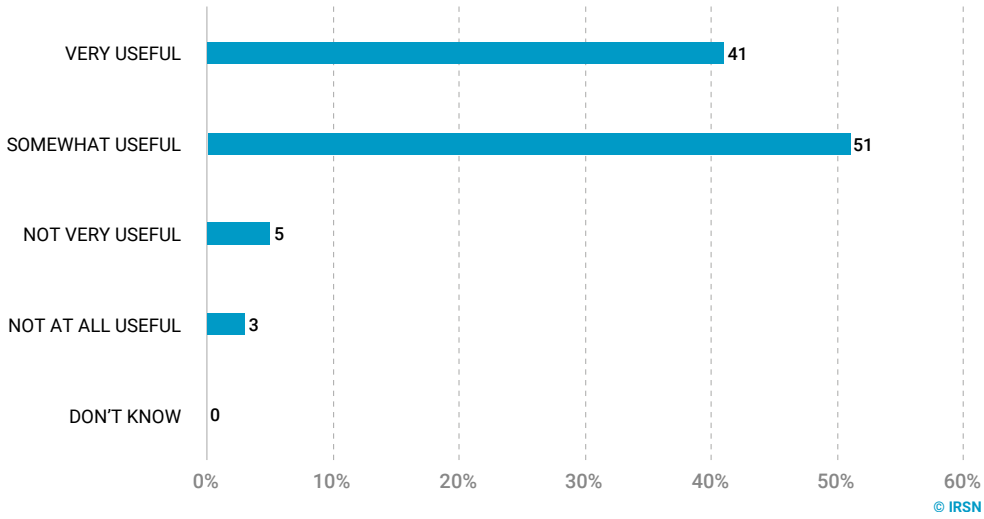
- ▽ A COMMITTEE OF SCIENTIFIC EXPERTS
- ▲ PUBLIC REGULATORY AUTHORITIES
- NON-GOVERNMENTAL ORGANISATIONS
- LOCAL ELECTED OFFICIALS (REGIONAL COUNCIL, GENERAL COUNCIL, MUNICIPALITY)
- ▲ THE OPERATOR OF THE FACILITY
- A LOCAL CITIZENS' COMMITTEE
- DON'T KNOW

* 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".

QUESTION N°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...

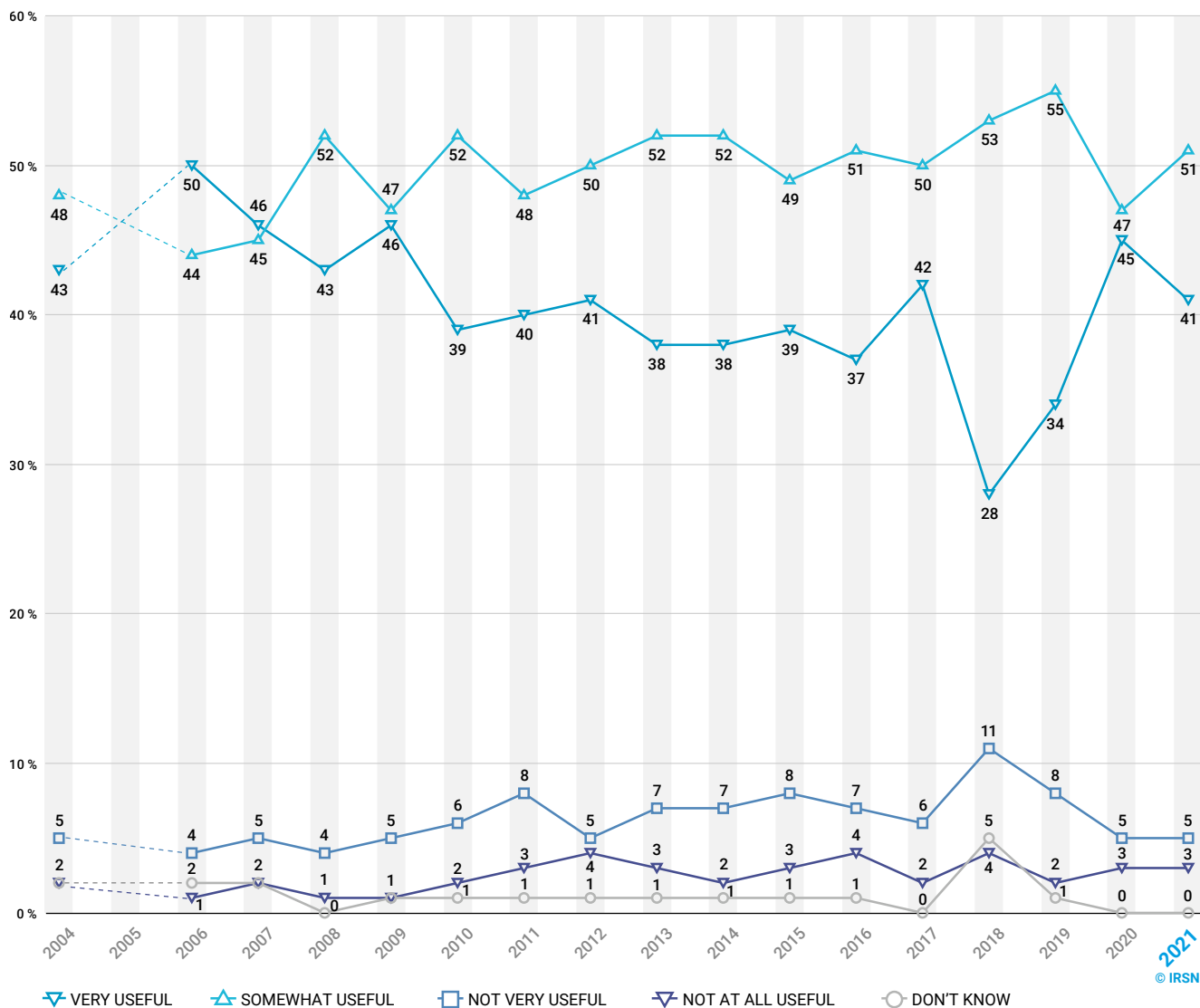
NOVEMBER 2021



QUESTION N°11
(SERIES)

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...

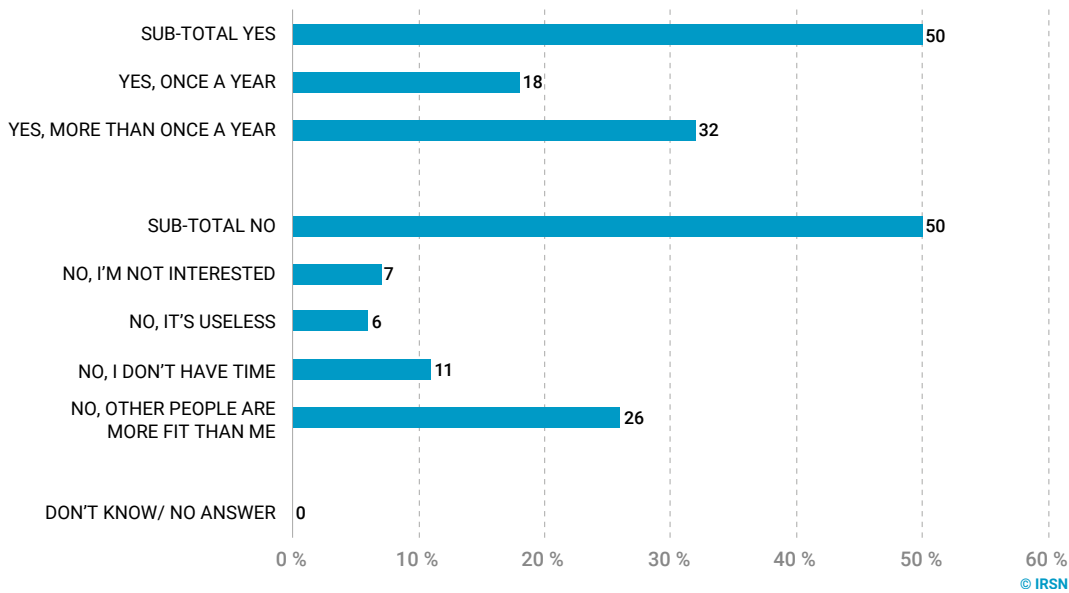
EVOLUTION OF THE RESULTS
2004 - 2021



QUESTION N°12

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
2021

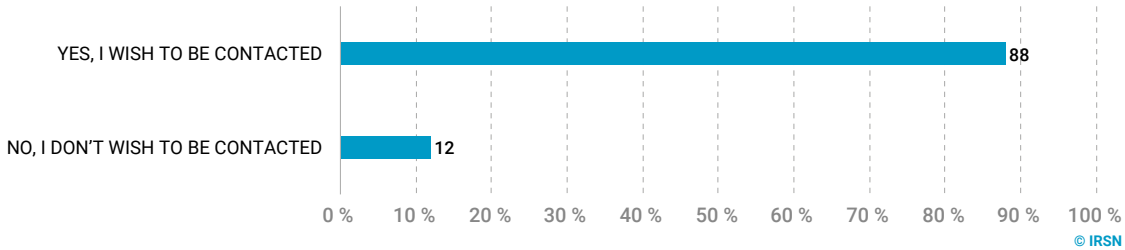


* This question has been asked before with other choices: "No", "Yes, once a year", "Yes twice or three times a year", "Yes four times a year or more" and "Don't know". Results are available on: <https://barometre.irsn.fr/graphiques>.

QUESTION N°13

If a consultation meeting regarding an installation carrying a risk was organized near you, would you wish to be contacted to participate*?

NOVEMBER 2021



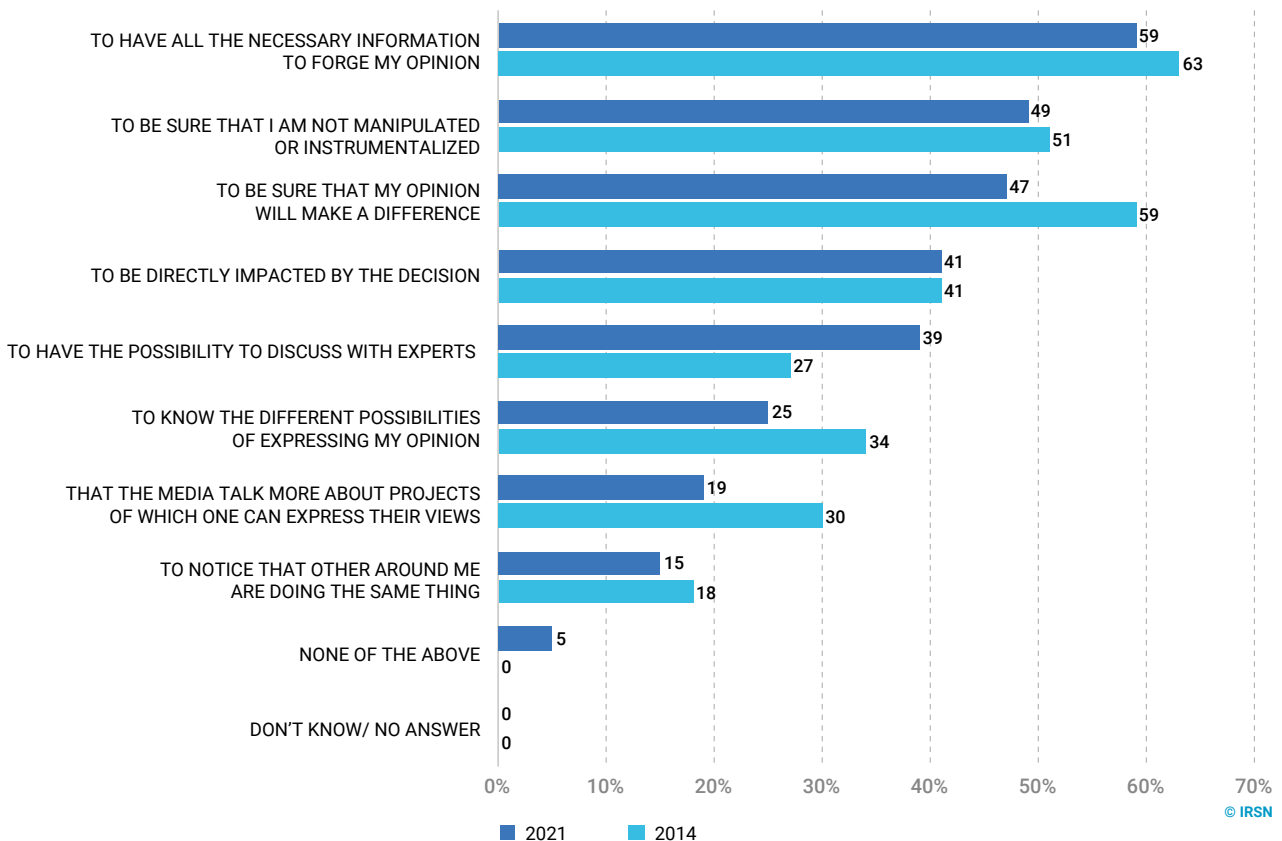
* Question only asked to people who answered being ready at least once a year to participate in information and consultation meetings about the management of a risky facility near their homes.

QUESTION N°14

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

RESULTS 2014 AND 2021

The 2014 data outcome from the survey "the citizen and the public decision" by TNS Soffres for the CNDP (Commission National Public Debate).

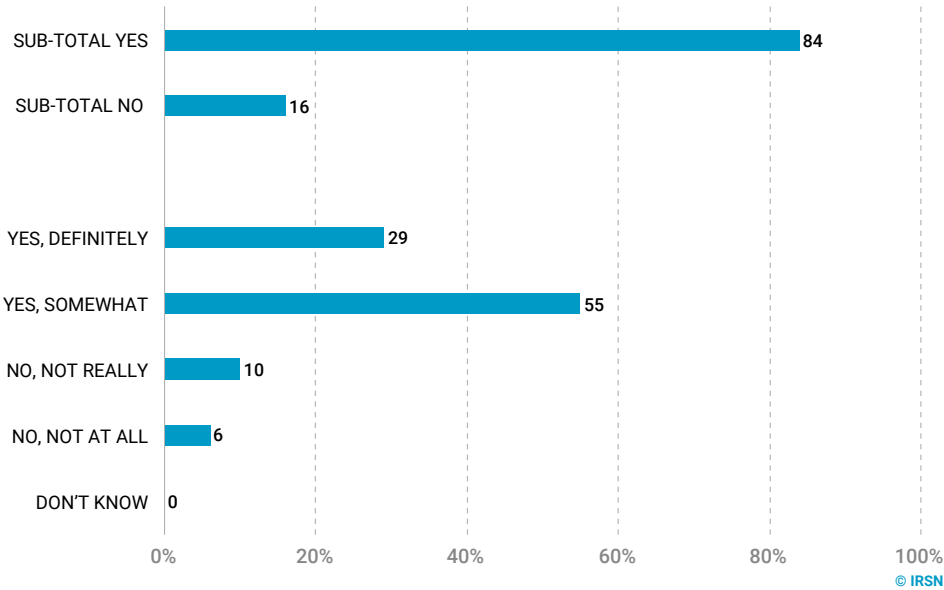


* Multiple answers possible.

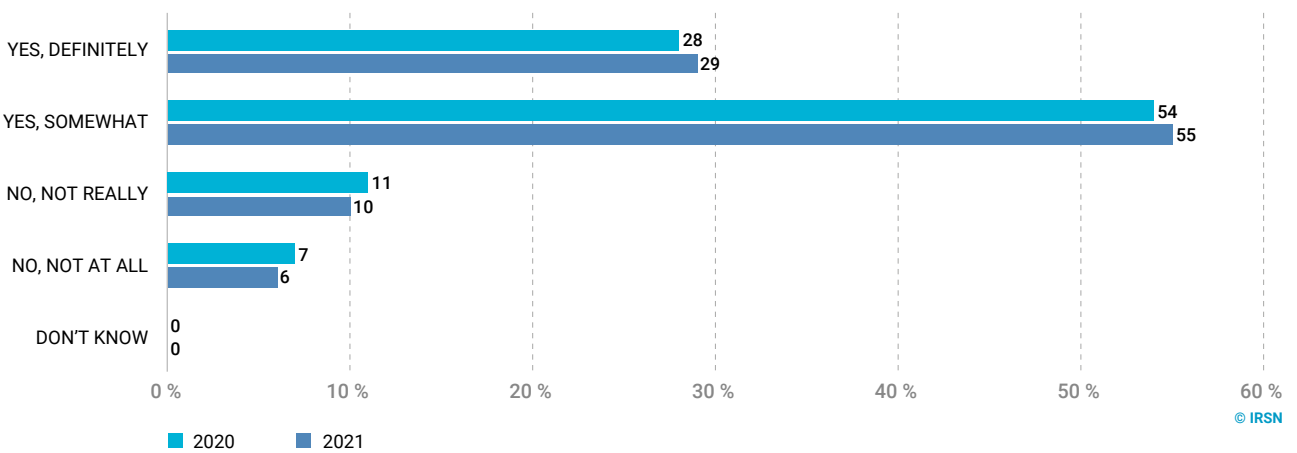
QUESTION N°15

Since the start of the 2020 coronavirus epidemic, the government has relied on input from a scientific Council to make decisions. In your opinion, is this a good thing?

NOVEMBER 2021



RESULTS 2020 AND 2021



PART

3

THE OPINION OF THE FRENCH ON RISK SITUATIONS

49 – 69

The mains risks
perceived by the French

70 – 71

The risks perception
for oneself and
one's relatives

72

The perception
of personal exposure
to risks

73 – 93

The level of trust in the
authorities to protect them

94

Overview of
risk situations

95 – 103

The acceptability
of facilities

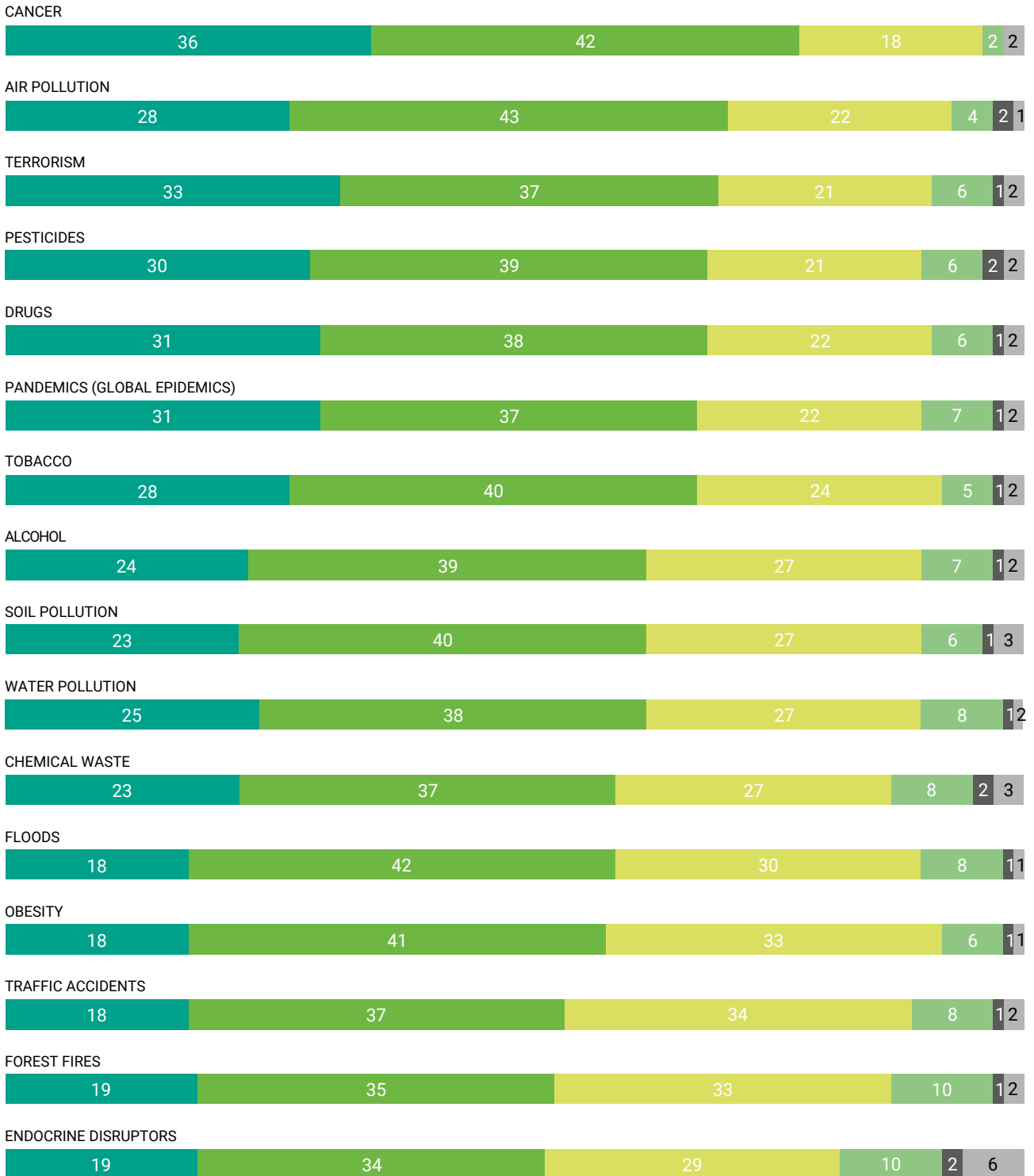
104 – 106

The representations
of the vaccine

QUESTION N°1

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

NOVEMBER 2021



■ VERY HIGH ■ HIGH ■ MEDIUM ■ LOW ■ NEAR ZERO ■ DON'T KNOW

© IRSN

QUESTION N°1
(SERIES)

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

NOVEMBER 2021

CHEMICAL FACILITIES



RADIOACTIVE WASTE



SOUND POLLUTION



GMO'S (GENETICALLY MODIFIED ORGANISMS)



HEAT WAVES



NANOPARTICLES



MARINE FLOODING (TEMPORARY FLOODING CAUSED BY THE SEA)



FOOD PRODUCTS SAFETY



DOMESTIC ACCIDENTS



NUCLEAR POWER PLANTS



RADIOACTIVE FALLOUTS IN FRANCE FROM THE CHERNOBYL ACCIDENT



AIDS



HIGH-VOLTAGE LINES



MEDICAL RADIOGRAPHIES



INDOOR RADON



RADIOTHERAPY ACCIDENTS



■ VERY HIGH ■ HIGH ■ MEDIUM ■ LOW ■ NEAR ZERO ■ DON'T KNOW

© IRSN

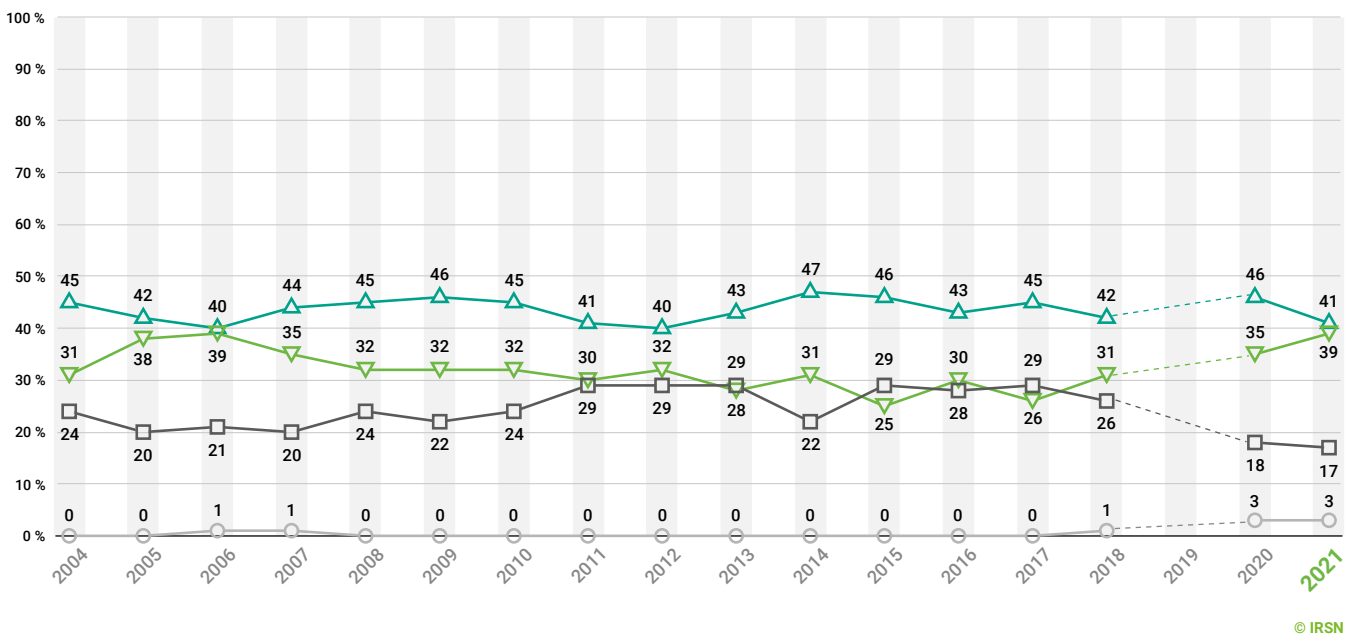
QUESTION N°1
(SERIES)

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

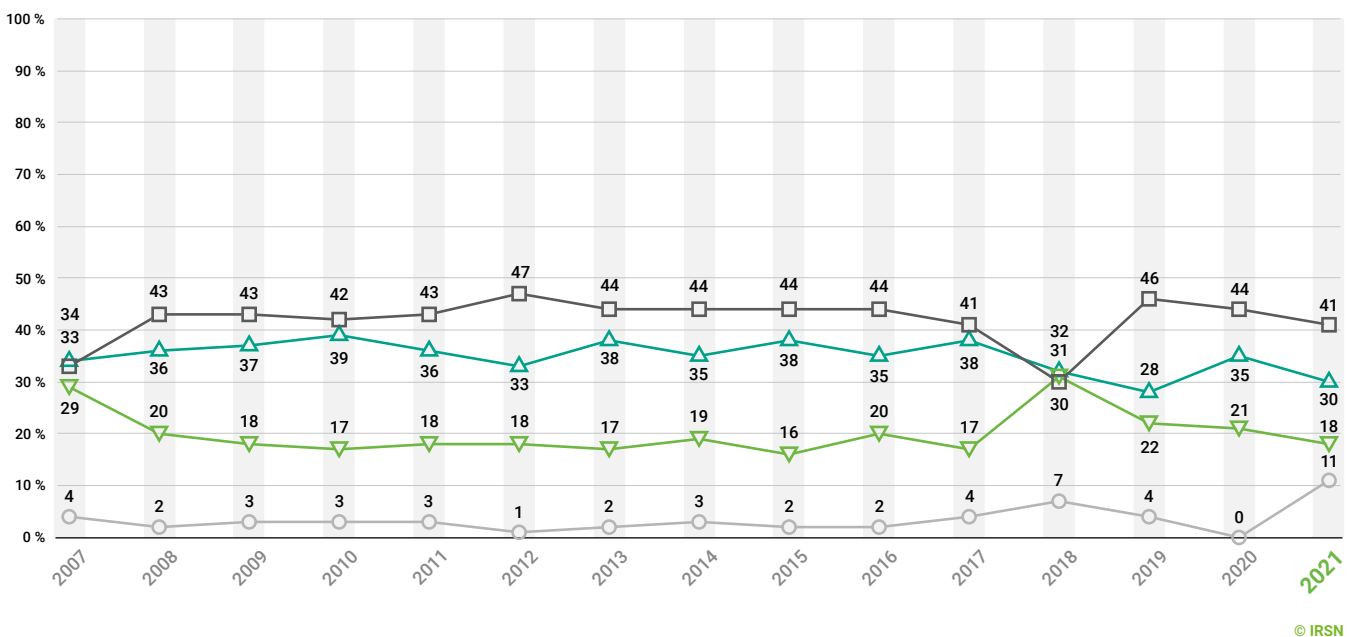
EVOLUTION OF THE RESULTS
2004-2021

Since 2019, some at-risk situations are only displayed every other year. To facilitate the availability of data, we still display the series below. Five graphs do not have data for 2021. Medical risks, hazardous materials transportation, and household waste incinerators are indefinitely removed but still displayed this year.

1 – Domestic accidents



2 – Radiotherapy accidents



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

▲ HIGH ▲ MEDIUM □ LOW ○ DON'T KNOW

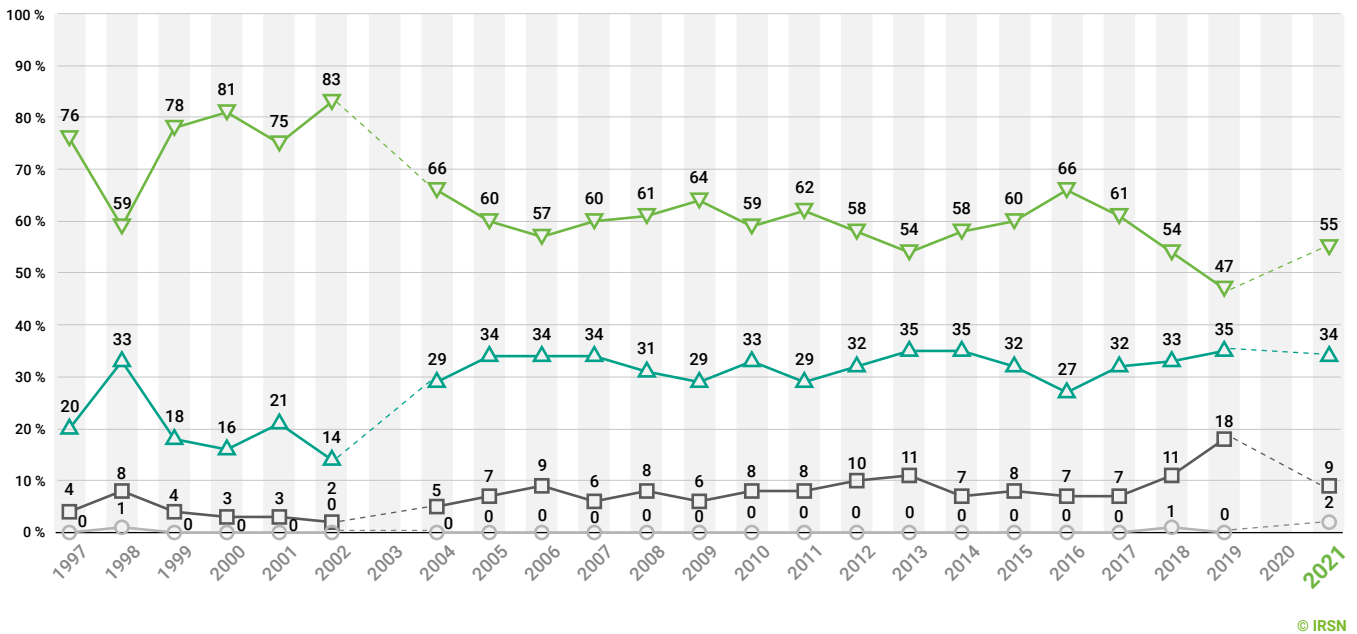
QUESTION N°1
(SERIES)

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

EVOLUTION OF THE RESULTS
1997-2021

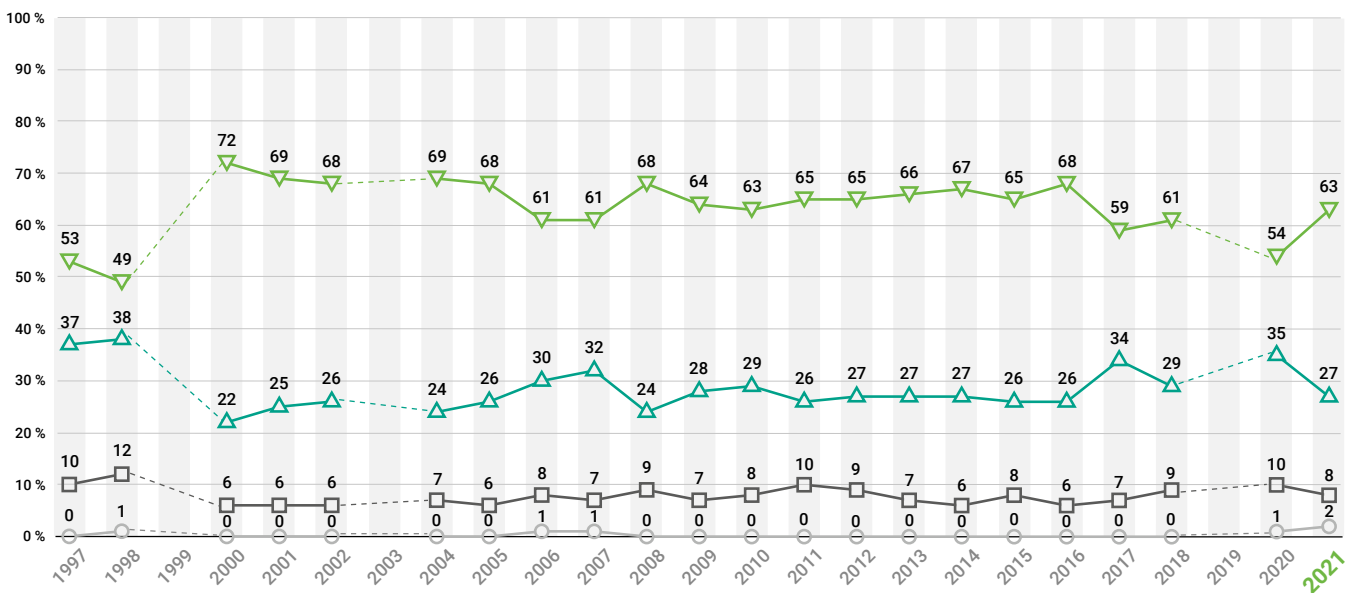
Since 2019, some at-risk situations are only displayed every other year. To facilitate the availability of data, we still display the series below. Five graphs do not have data for 2021. Medical risks, hazardous materials transportation, and household waste incinerators are indefinitely removed but still displayed this year.

3 – Traffic accidents



© IRSN

4 – Alcohol*



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

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

▽ HIGH ▲ MEDIUM □ LOW ○ DON'T KNOW

© IRSN

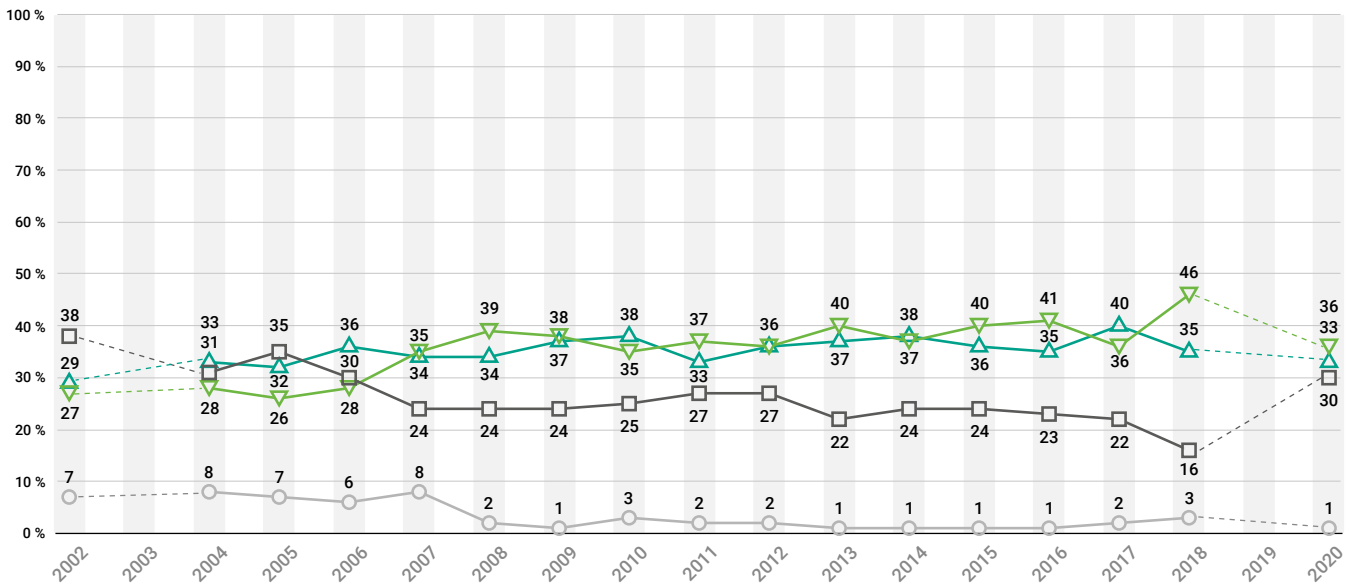
QUESTION N°1
(SERIES)

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

EVOLUTION OF THE RESULTS
2002-2021

Since 2019, some at-risk situations are only displayed every other year. To facilitate the availability of data, we still display the series below. Five graphs do not have data for 2021. Medical risks, hazardous materials transportation, and household waste incinerators are indefinitely removed but still displayed this year.

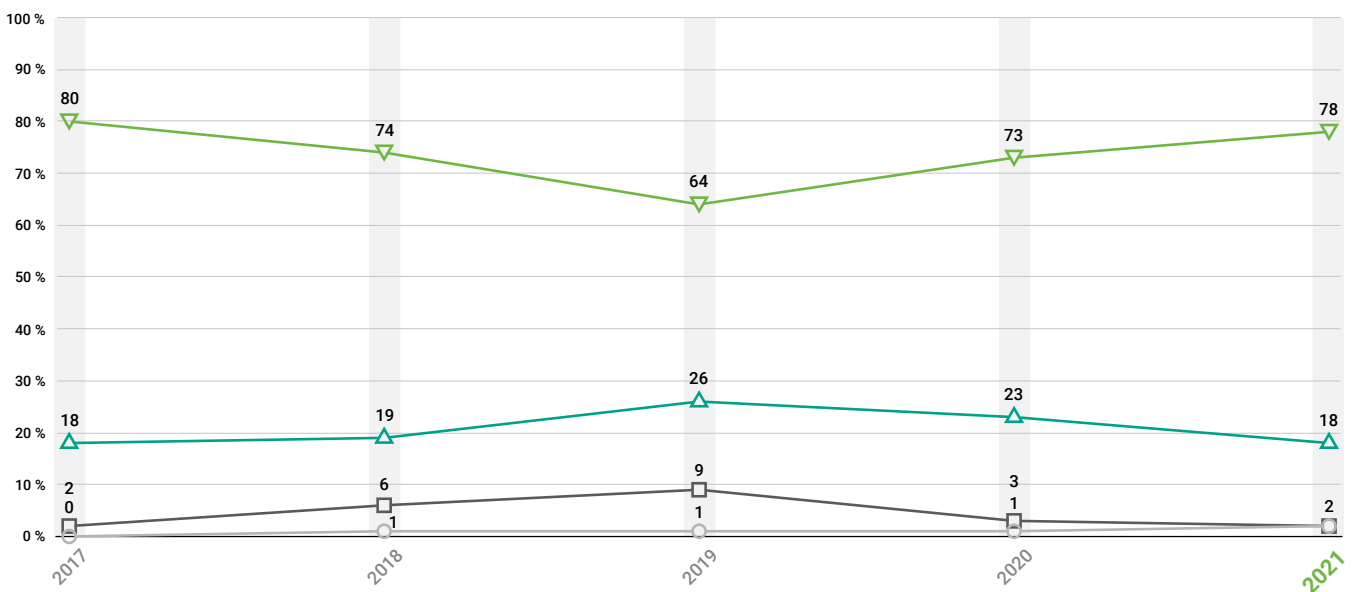
5 – Mobile phone relay antennas*



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

© IRSN

6 – Cancer



© IRSN

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

▼ HIGH
 ▲ MEDIUM
 LOW
 DON'T KNOW

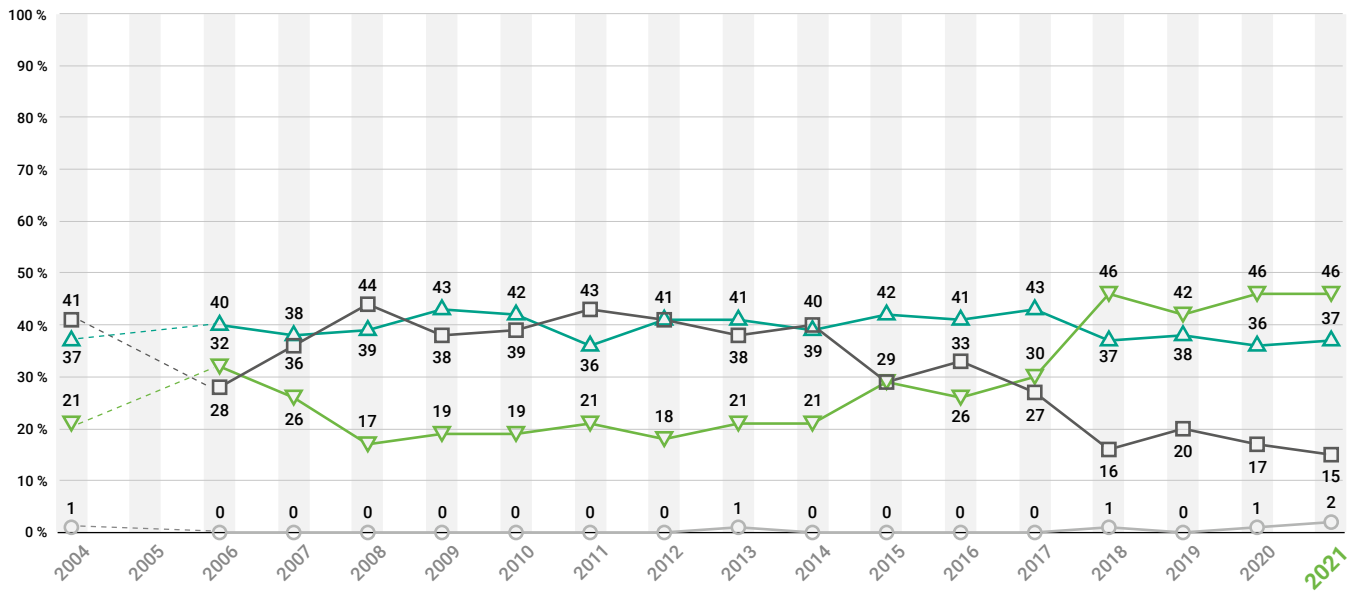
QUESTION N°1
(SERIES)

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

EVOLUTION OF THE RESULTS
1997-2021

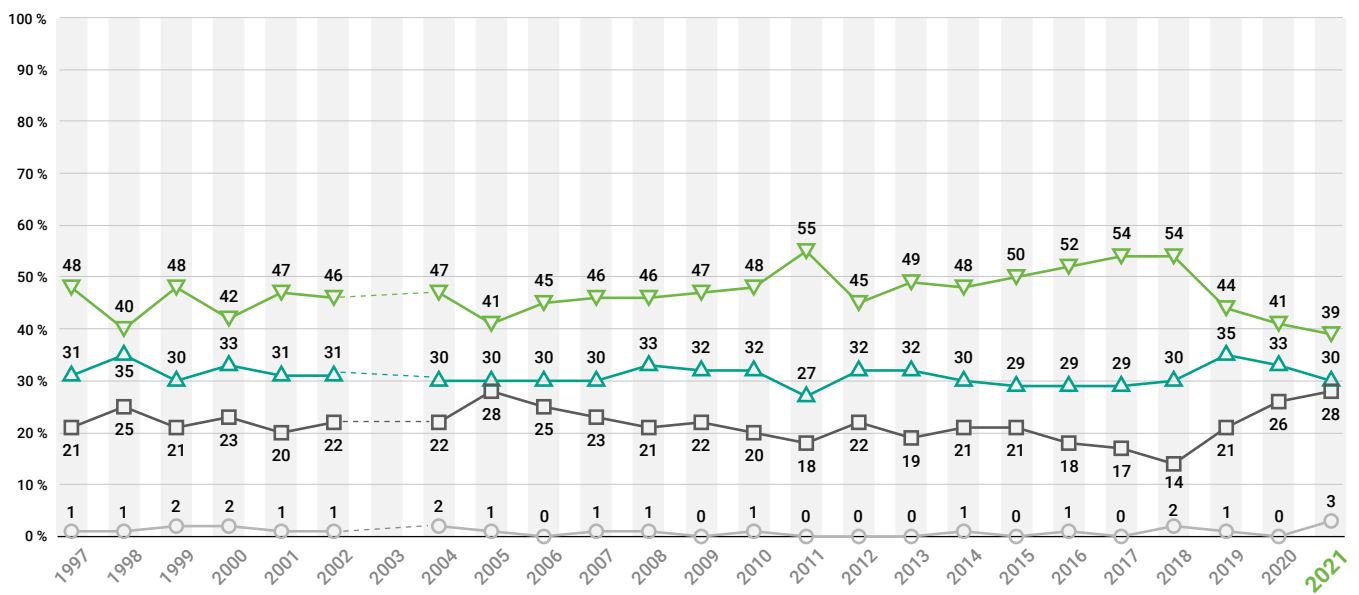
Since 2019, some at-risk situations are only displayed every other year. To facilitate the availability of data, we still display the series below. Five graphs do not have data for 2021. Medical risks, hazardous materials transportation, and household waste incinerators are indefinitely removed but still displayed this year.

7 – Heat waves



© IRSN

8 – Nuclear power plants



© IRSN

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

▽ HIGH ▲ MEDIUM □ LOW ○ DON'T KNOW

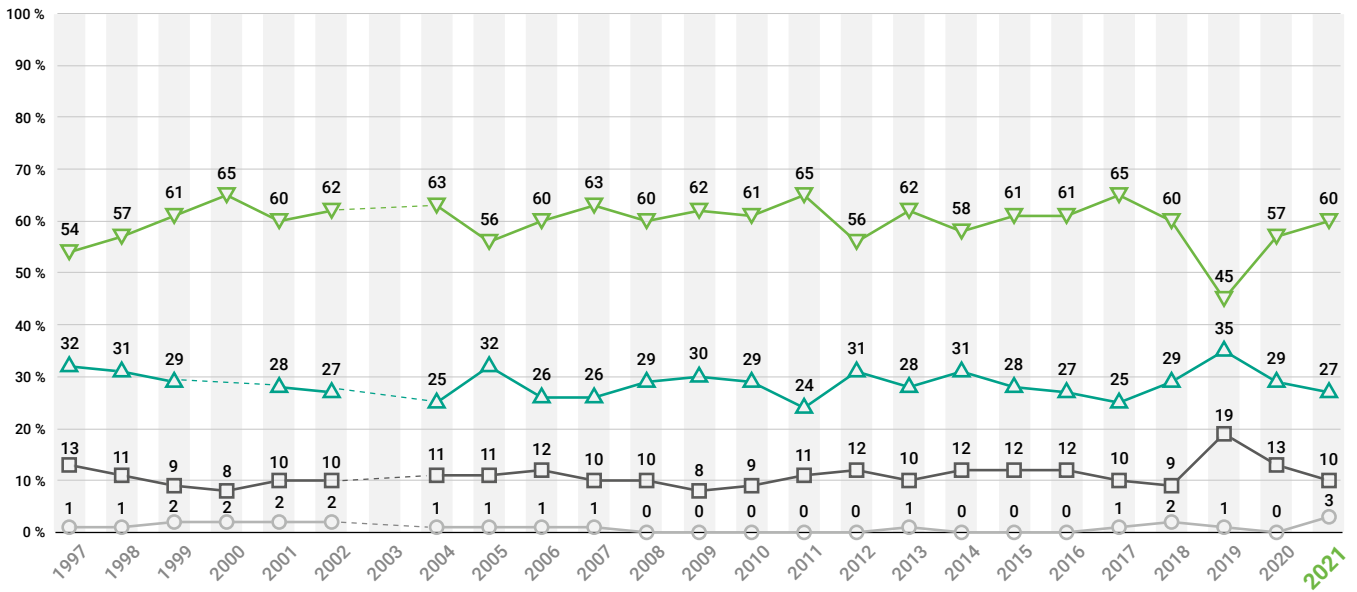
QUESTION N°1
(SERIES)

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

EVOLUTION OF THE RESULTS
1997-2021

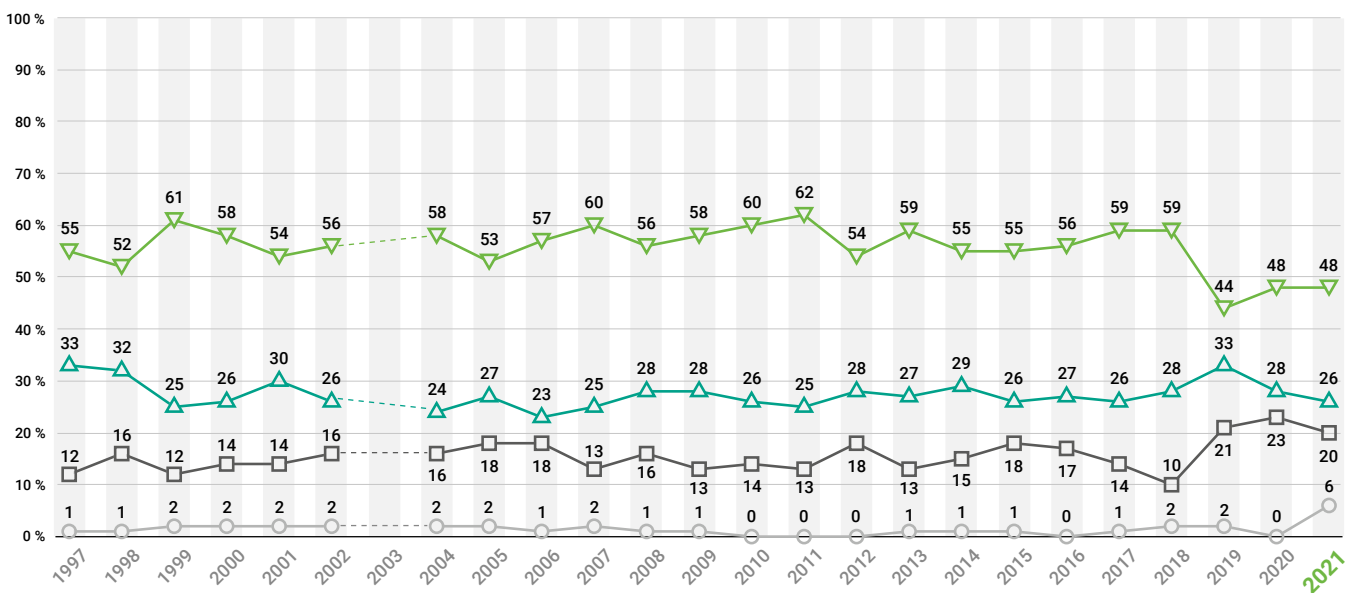
Since 2019, some at-risk situations are only displayed every other year. To facilitate the availability of data, we still display the series below. Five graphs do not have data for 2021. Medical risks, hazardous materials transportation, and household waste incinerators are indefinitely removed but still displayed this year.

9 – Chemical waste



© IRSN

10 – Radioactive waste



© IRSN

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

▽ HIGH ▲ MEDIUM □ LOW ○ DON'T KNOW

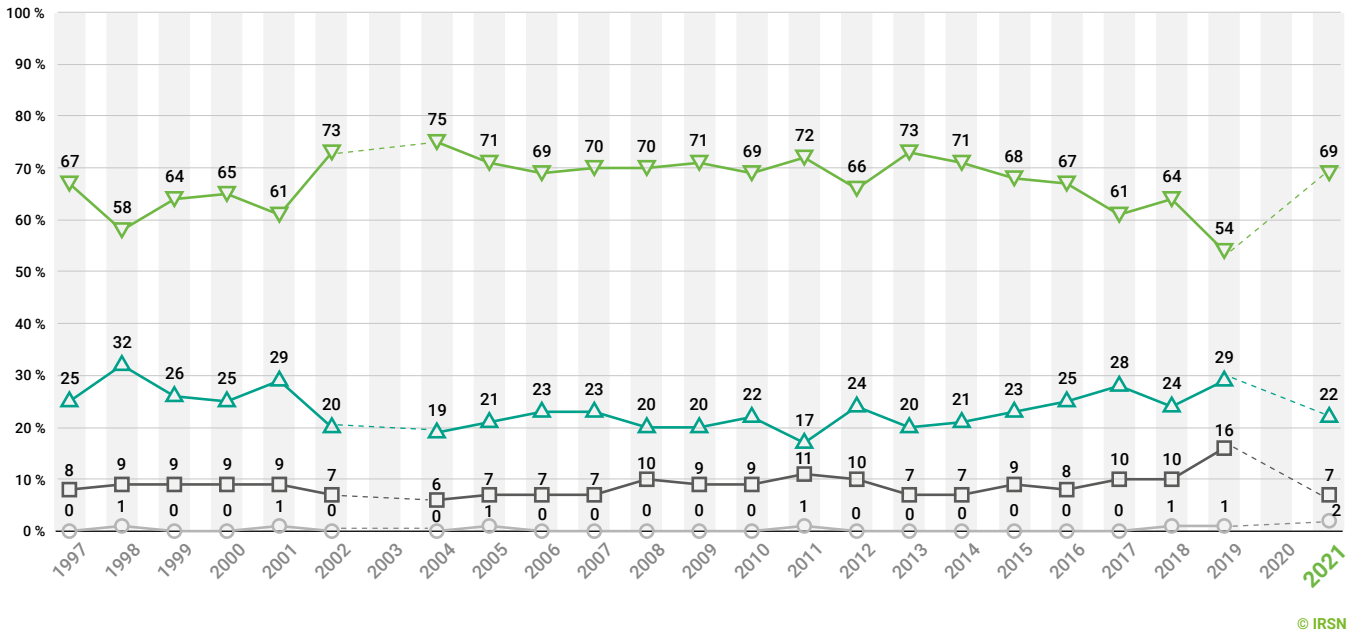
QUESTION N°1
(SERIES)

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

EVOLUTION OF THE RESULTS
1997-2021

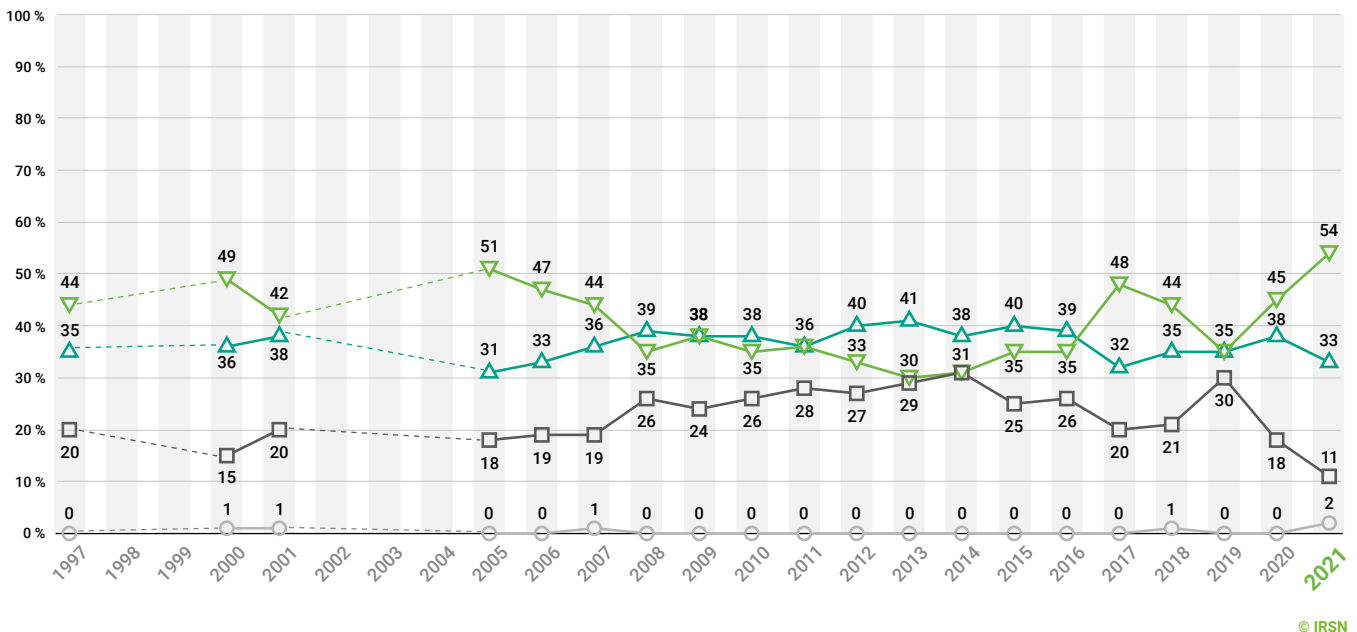
Since 2019, some at-risk situations are only displayed every other year. To facilitate the availability of data, we still display the series below. Five graphs do not have data for 2021. Medical risks, hazardous materials transportation, and household waste incinerators are indefinitely removed but still displayed this year.

11 – Drugs



© IRSN

12 – Forest fires



© IRSN

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

▽ HIGH ▲ MEDIUM □ LOW ○ DON'T KNOW

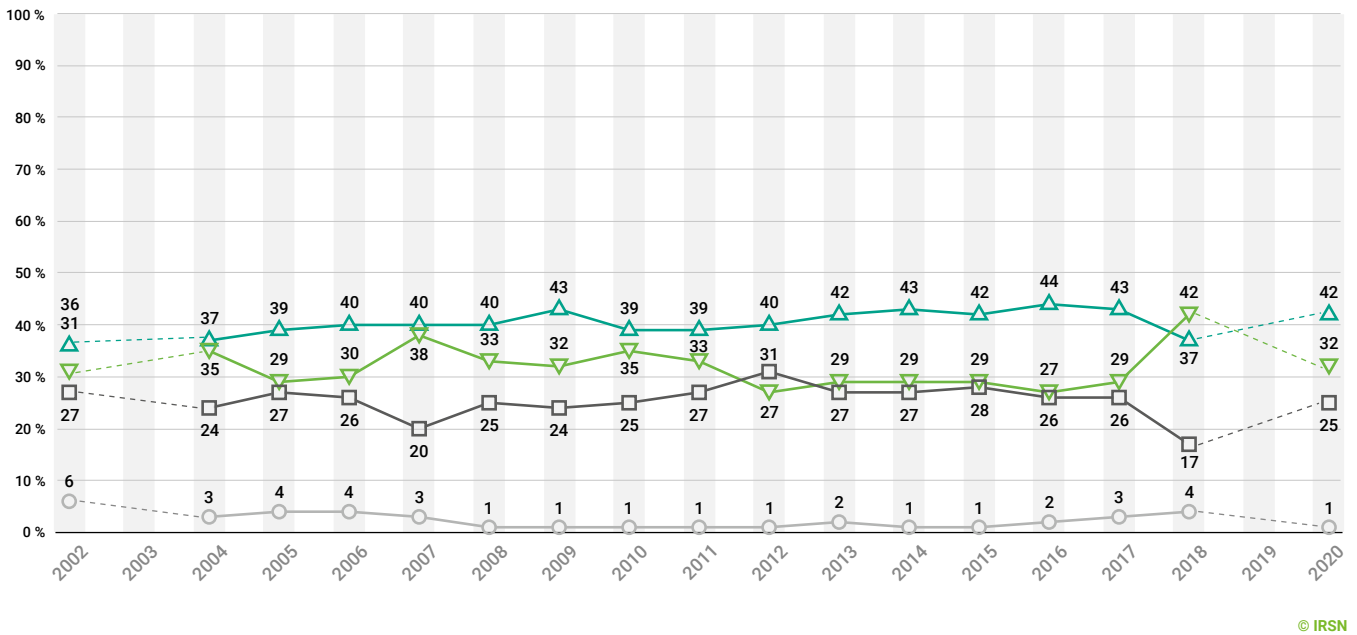
QUESTION N°1
(SERIES)

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

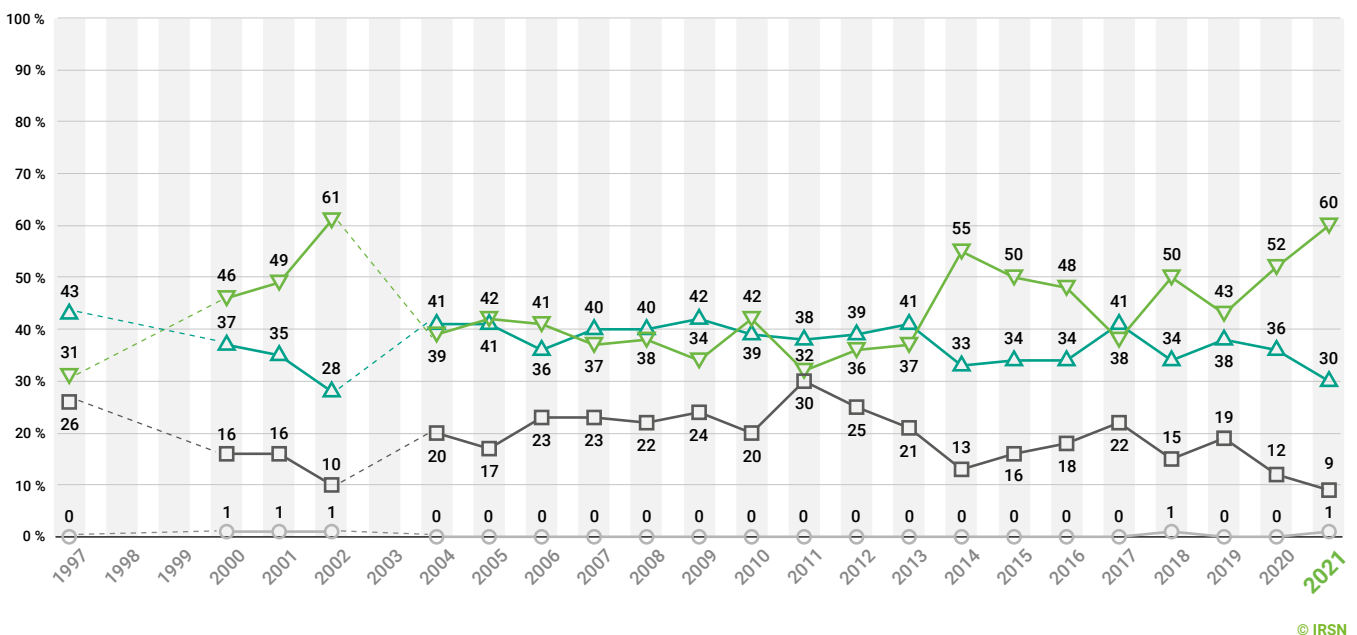
EVOLUTION OF THE RESULTS
1997-2021

Since 2019, some at-risk situations are only displayed every other year. To facilitate the availability of data, we still display the series below. Five graphs do not have data for 2021. Medical risks, hazardous materials transportation, and household waste incinerators are indefinitely removed but still displayed this year.

13 – Household waste incinerators



14 – Floods



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

▽ HIGH
 △ MEDIUM
 LOW
 DON'T KNOW

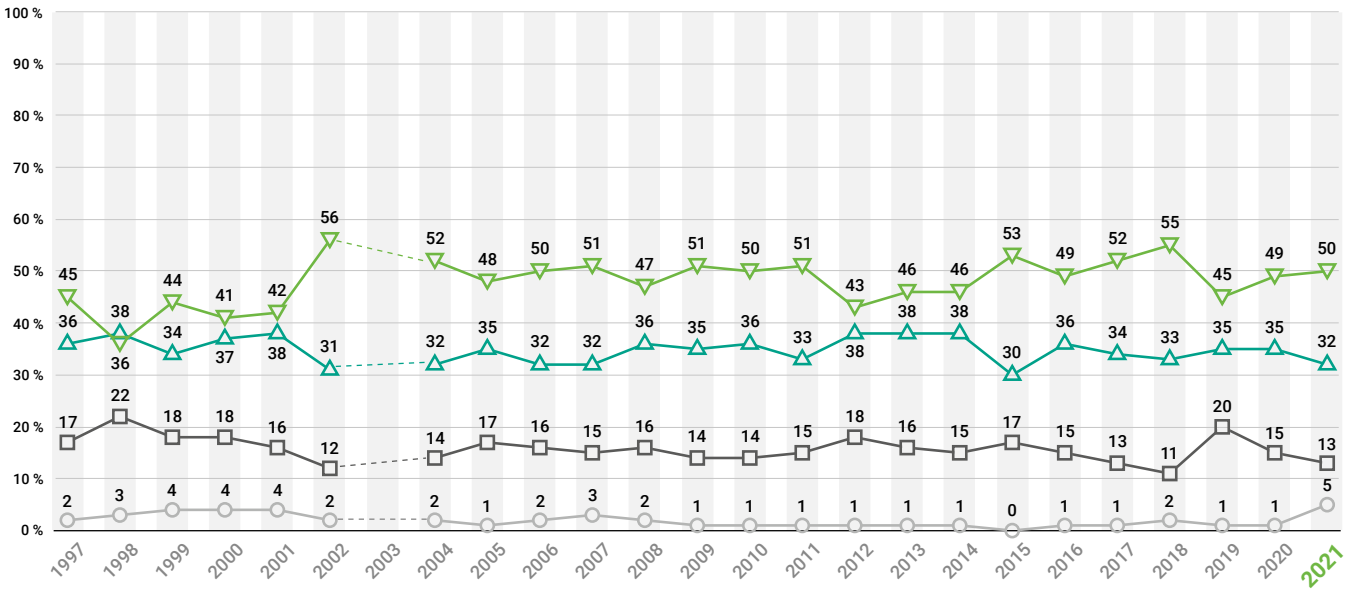
QUESTION N°1
(SERIES)

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

EVOLUTION OF THE RESULTS
1997-2021

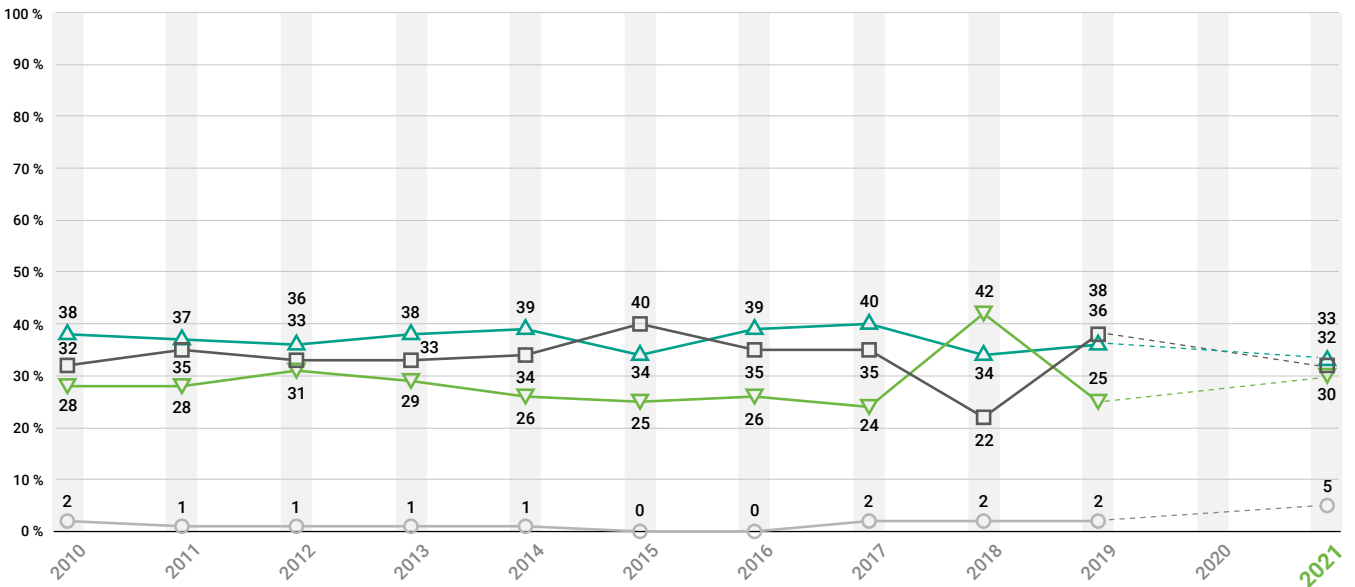
Since 2019, some at-risk situations are only displayed every other year. To facilitate the availability of data, we still display the series below. Five graphs do not have data for 2021. Medical risks, hazardous materials transportation, and household waste incinerators are indefinitely removed but still displayed this year.

15 – Chemical facilities



© IRSN

16 – High-voltage lines



© IRSN

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

▽ HIGH ▲ MEDIUM □ LOW ○ DON'T KNOW

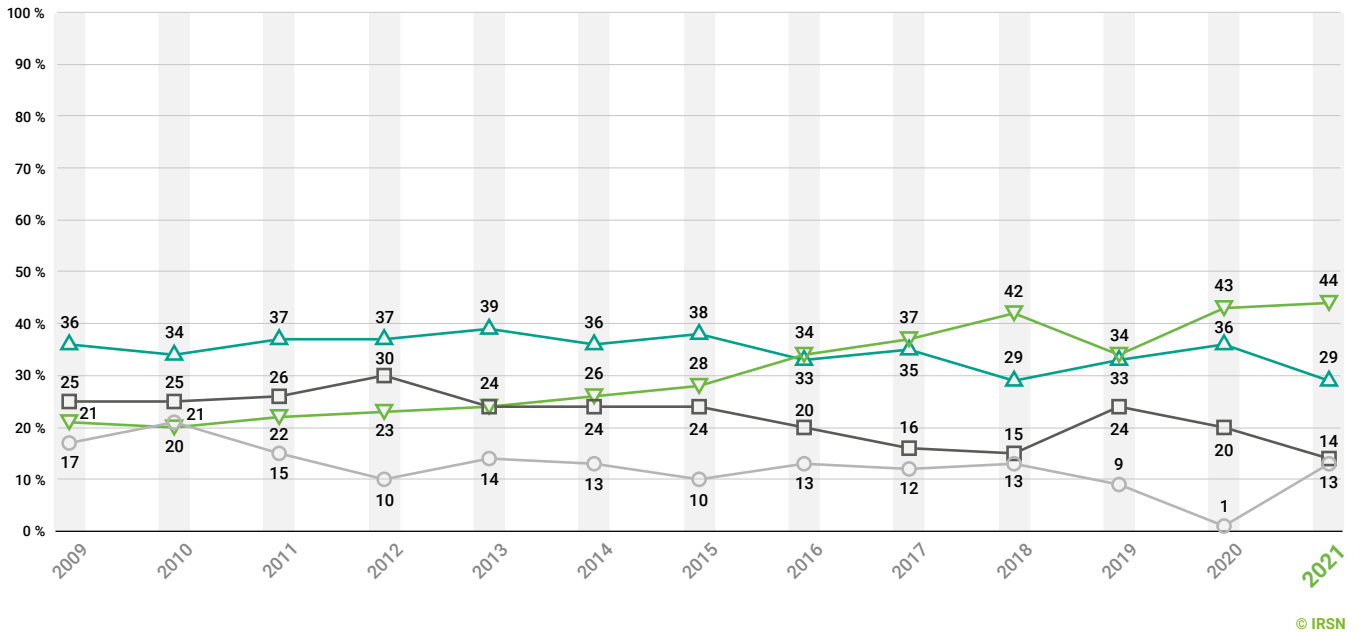
QUESTION N°1
(SERIES)

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

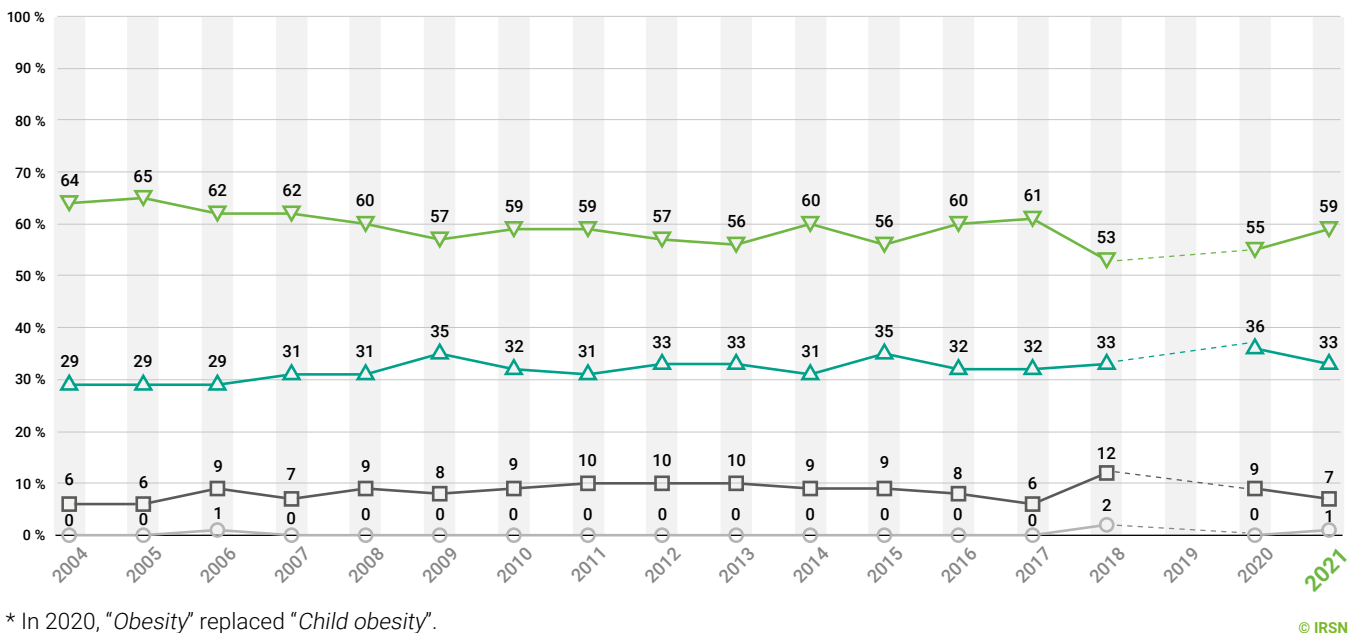
EVOLUTION OF THE RESULTS
2004-2021

Since 2019, some at-risk situations are only displayed every other year. To facilitate the availability of data, we still display the series below. Five graphs do not have data for 2021. Medical risks, hazardous materials transportation, and household waste incinerators are indefinitely removed but still displayed this year.

17 – Nanoparticles



18 – Obesity*



* In 2020, "Obesity" replaced "Child obesity".

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

▽ HIGH ▲ MEDIUM □ LOW ○ DON'T KNOW

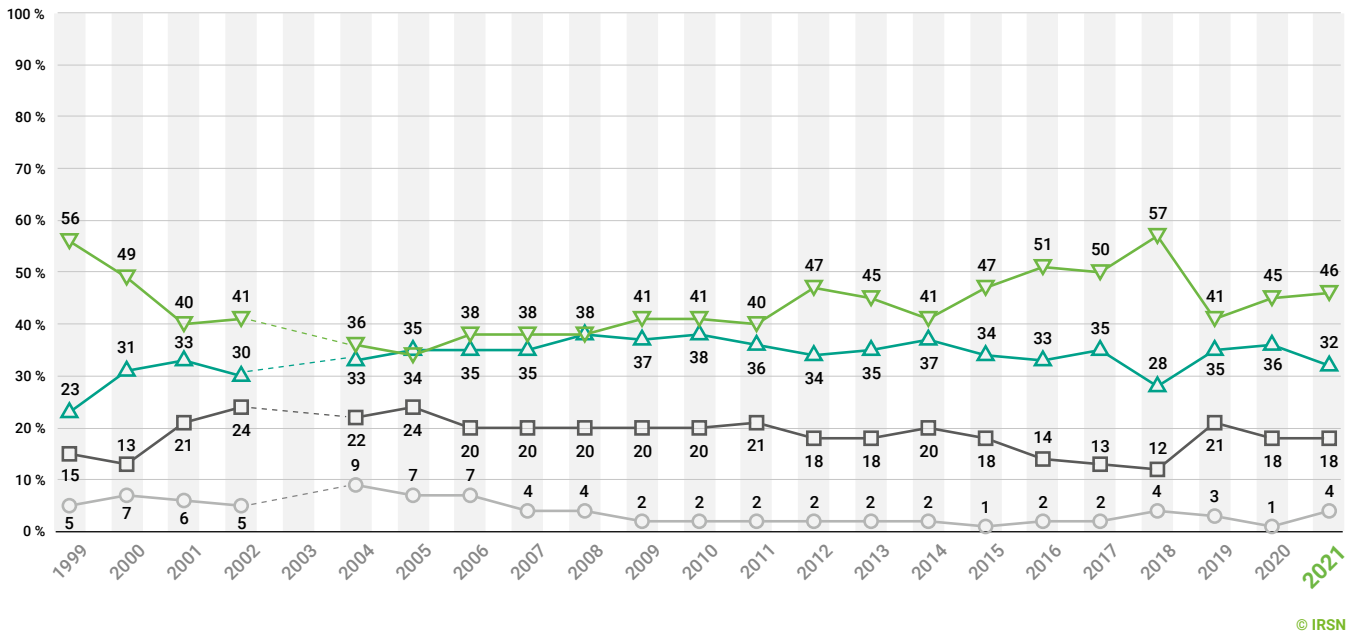
QUESTION N°1
(SERIES)

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

EVOLUTION OF THE RESULTS
1999-2021

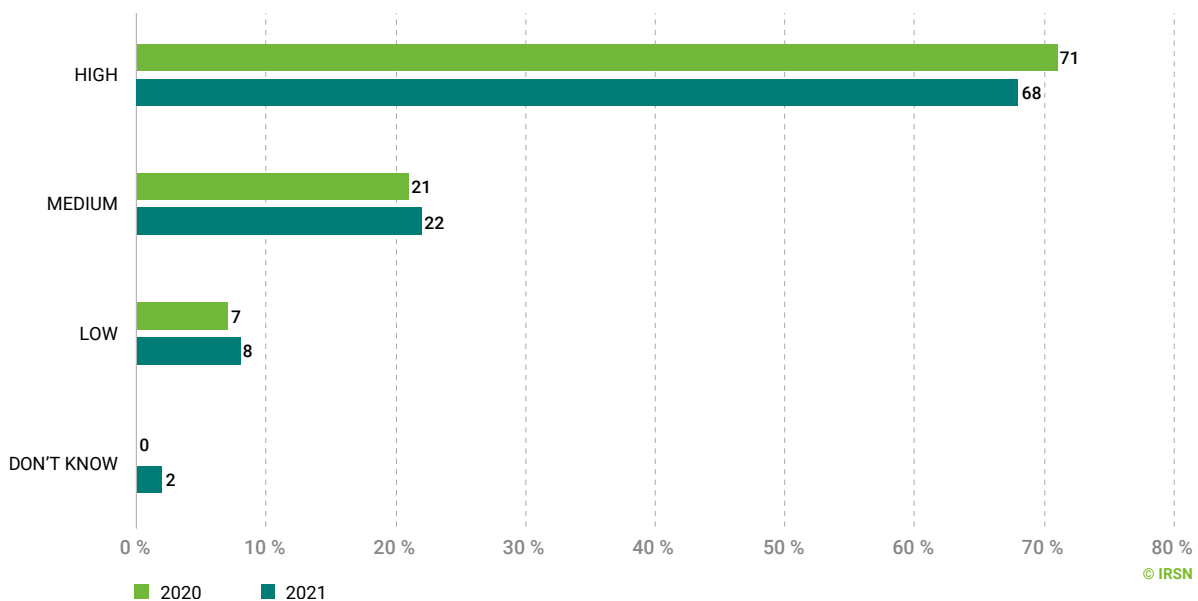
Since 2019, some at-risk situations are only displayed every other year. To facilitate the availability of data, we still display the series below. Five graphs do not have data for 2021. Medical risks, hazardous materials transportation, and household waste incinerators are indefinitely removed but still displayed this year.

19 – GMO's (Genetically Modified Organisms)



© IRSN

20 – Pandemics (global epidemics)



© IRSN

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

▽ HIGH ▲ MEDIUM □ LOW ○ DON'T KNOW

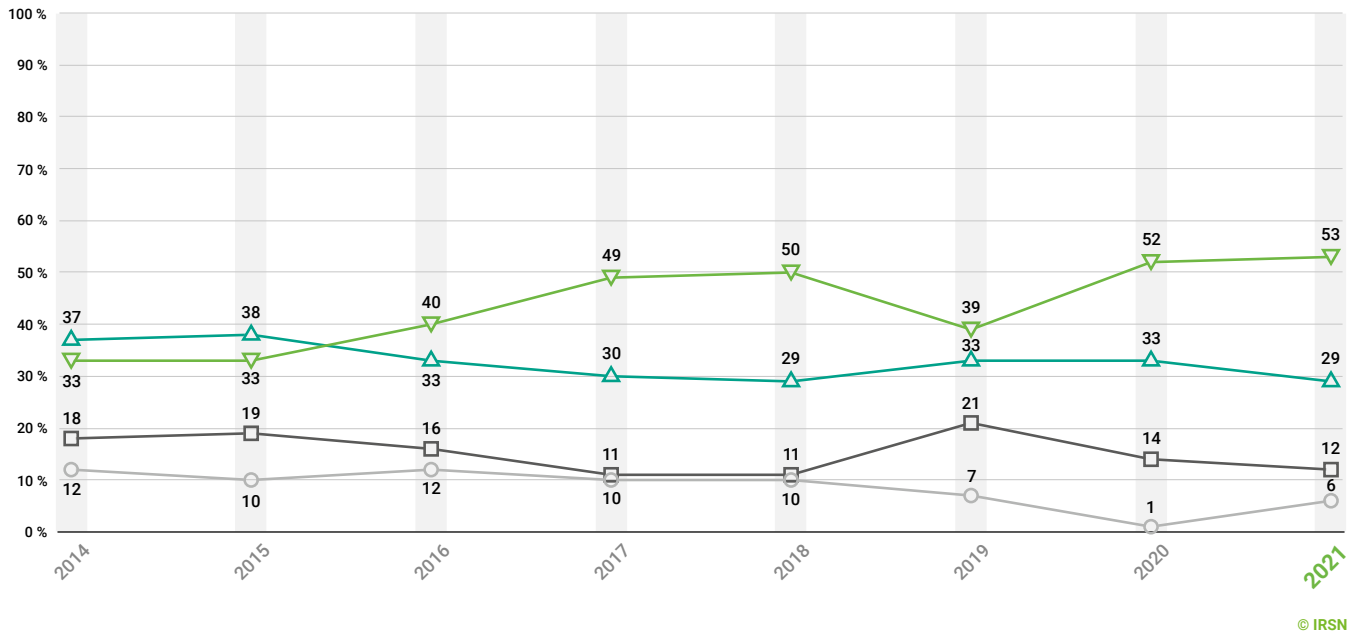
QUESTION N°1
(SERIES)

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

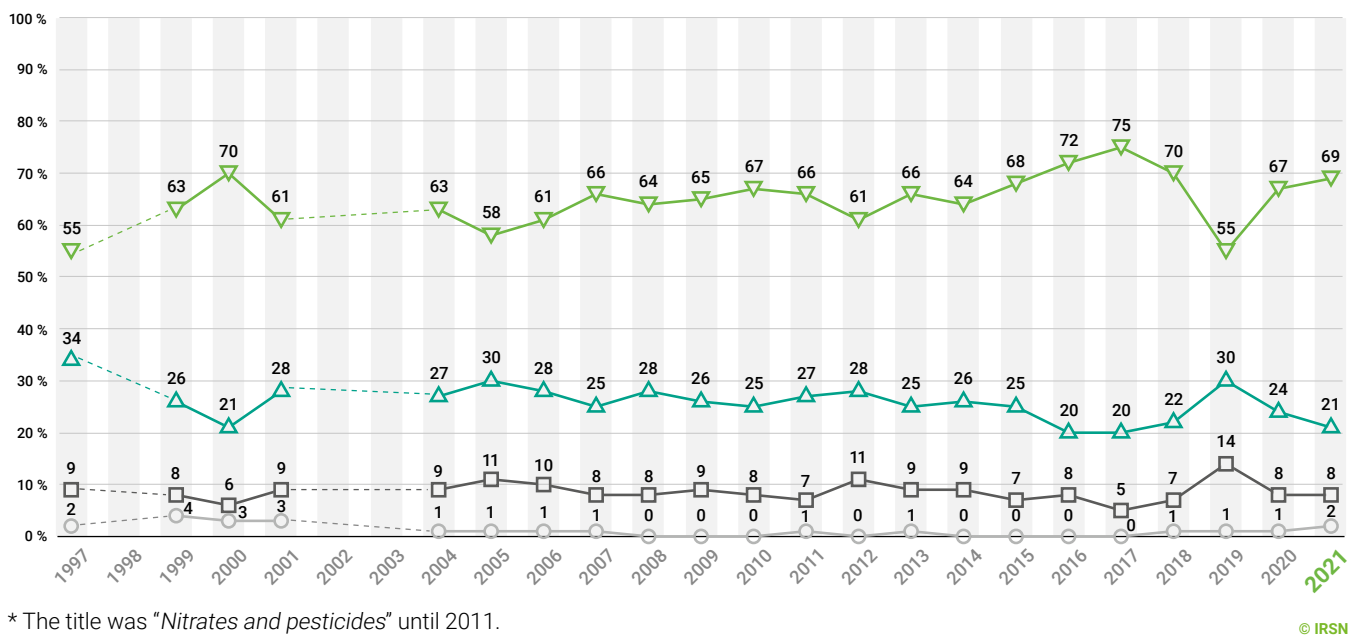
EVOLUTION OF THE RESULTS
1997-2021

Since 2019, some at-risk situations are only displayed every other year. To facilitate the availability of data, we still display the series below. Five graphs do not have data for 2021. Medical risks, hazardous materials transportation, and household waste incinerators are indefinitely removed but still displayed this year.

21 – Endocrine disruptors



22 – Pesticides*



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

▽ HIGH ▲ MEDIUM □ LOW ○ DON'T KNOW

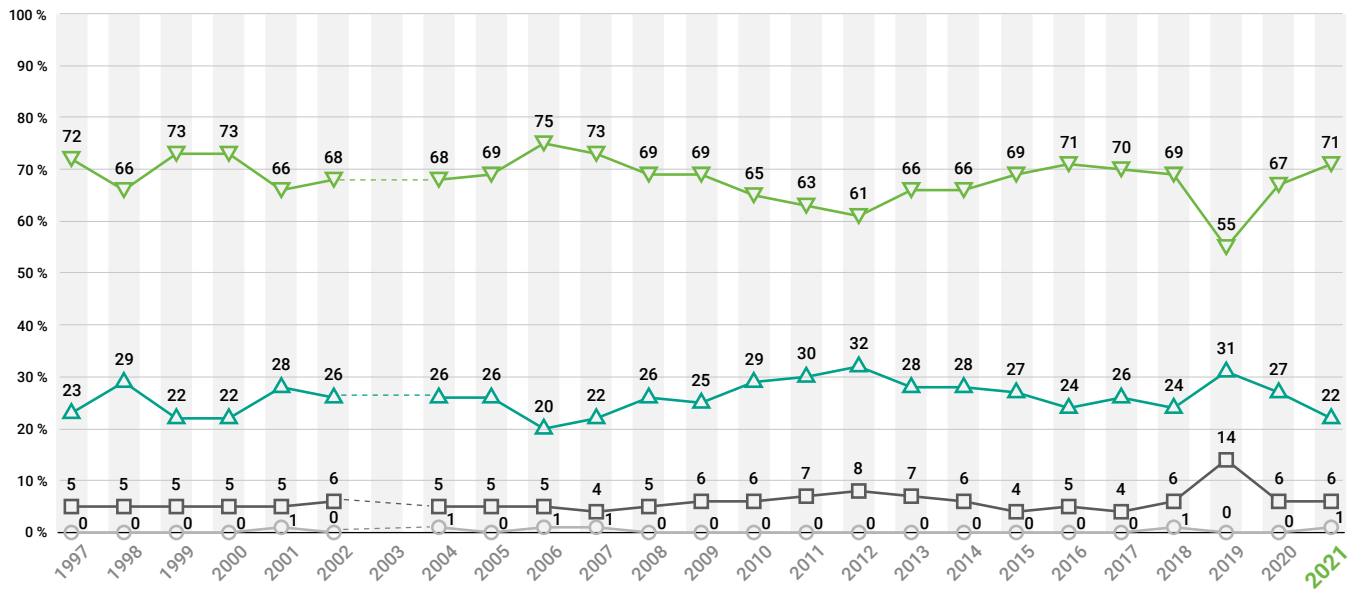
QUESTION N°1
(SERIES)

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

EVOLUTION OF THE RESULTS
1997-2021

Since 2019, some at-risk situations are only displayed every other year. To facilitate the availability of data, we still display the series below. Five graphs do not have data for 2021. Medical risks, hazardous materials transportation, and household waste incinerators are indefinitely removed but still displayed this year.

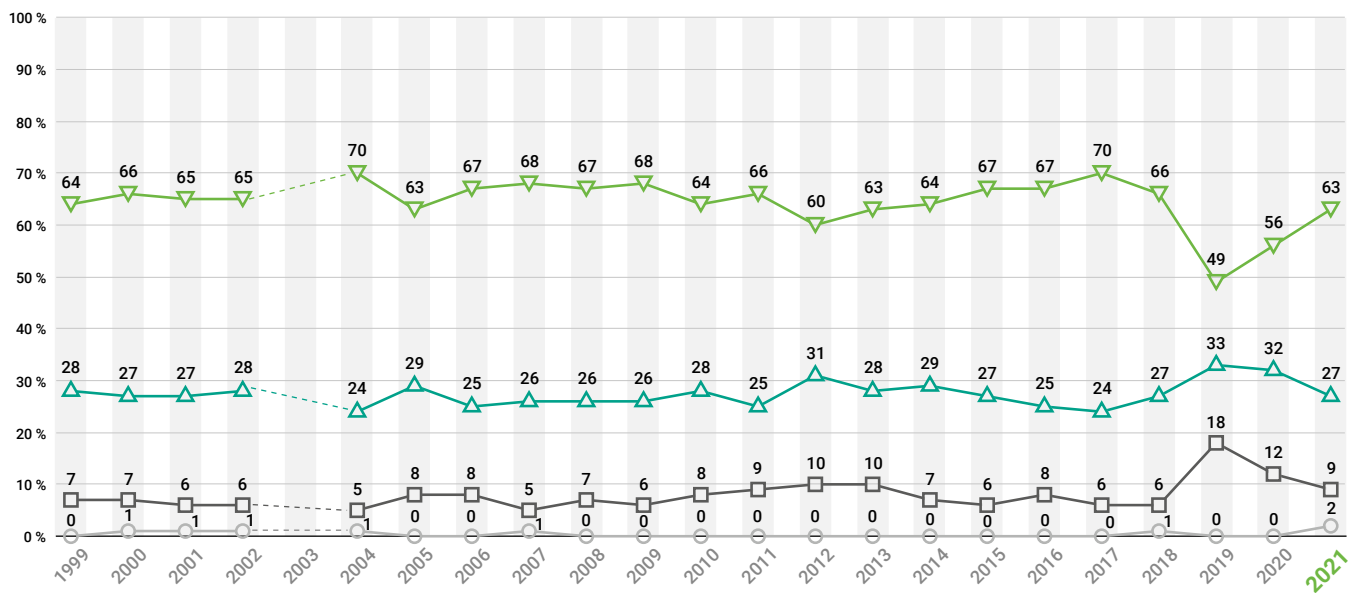
23 – Air pollution*



© IRSN

* The title was "atmospheric pollution" until 2018.

24 – Water pollution*



© IRSN

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

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

▽ HIGH ▲ MEDIUM □ LOW ○ DON'T KNOW

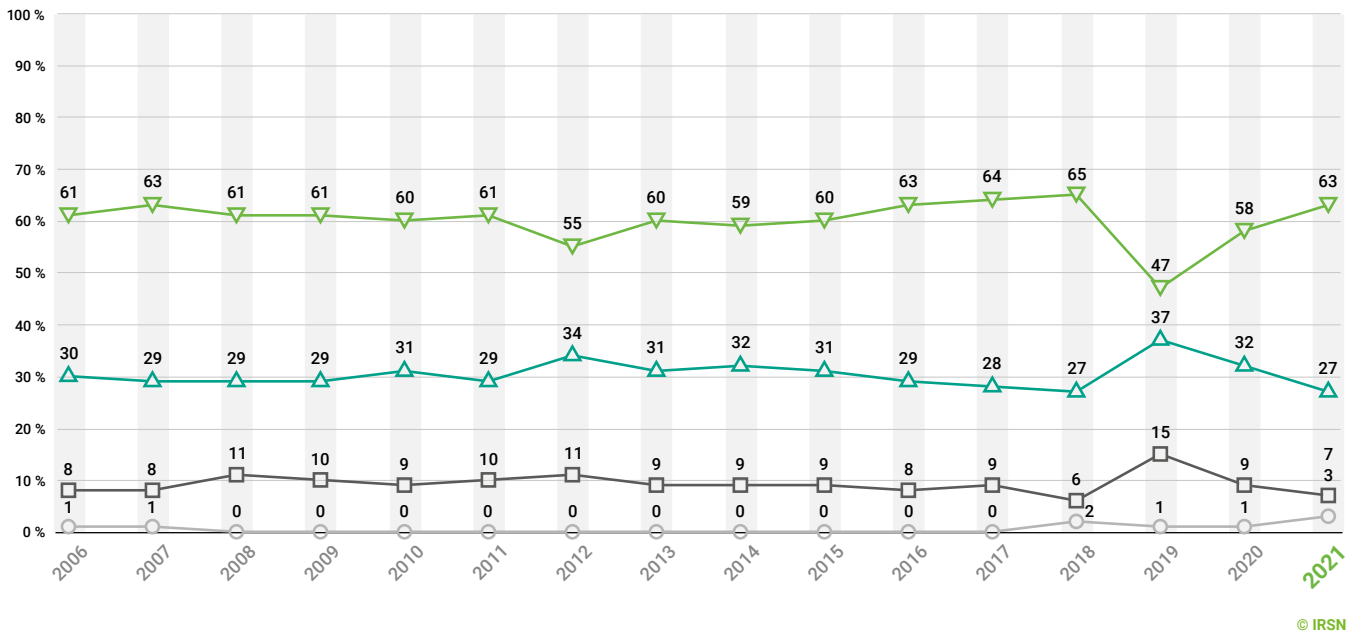
QUESTION N°1
(SERIES)

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

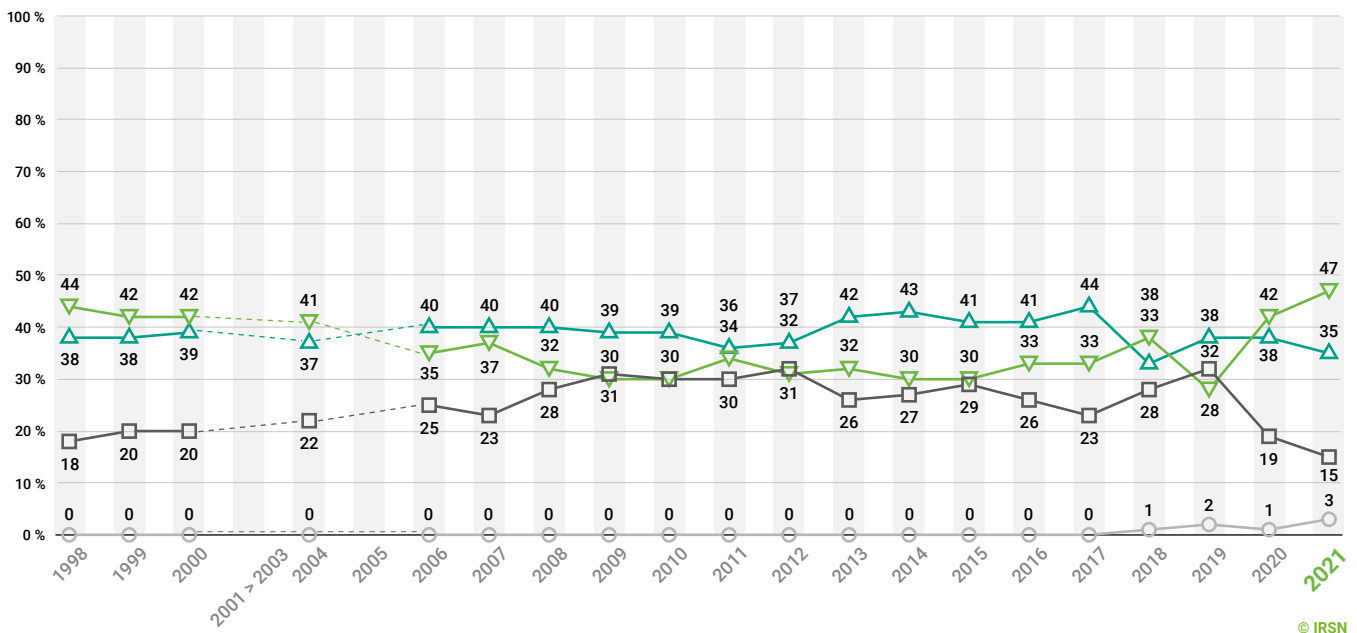
EVOLUTION OF THE RESULTS
1998-2021

Since 2019, some at-risk situations are only displayed every other year. To facilitate the availability of data, we still display the series below. Five graphs do not have data for 2021. Medical risks, hazardous materials transportation, and household waste incinerators are indefinitely removed but still displayed this year.

25 – Soil pollution



26 – Noise pollution*



* The title was "Noise" until 2018.

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

▽ HIGH ▲ MEDIUM □ LOW ○ DON'T KNOW

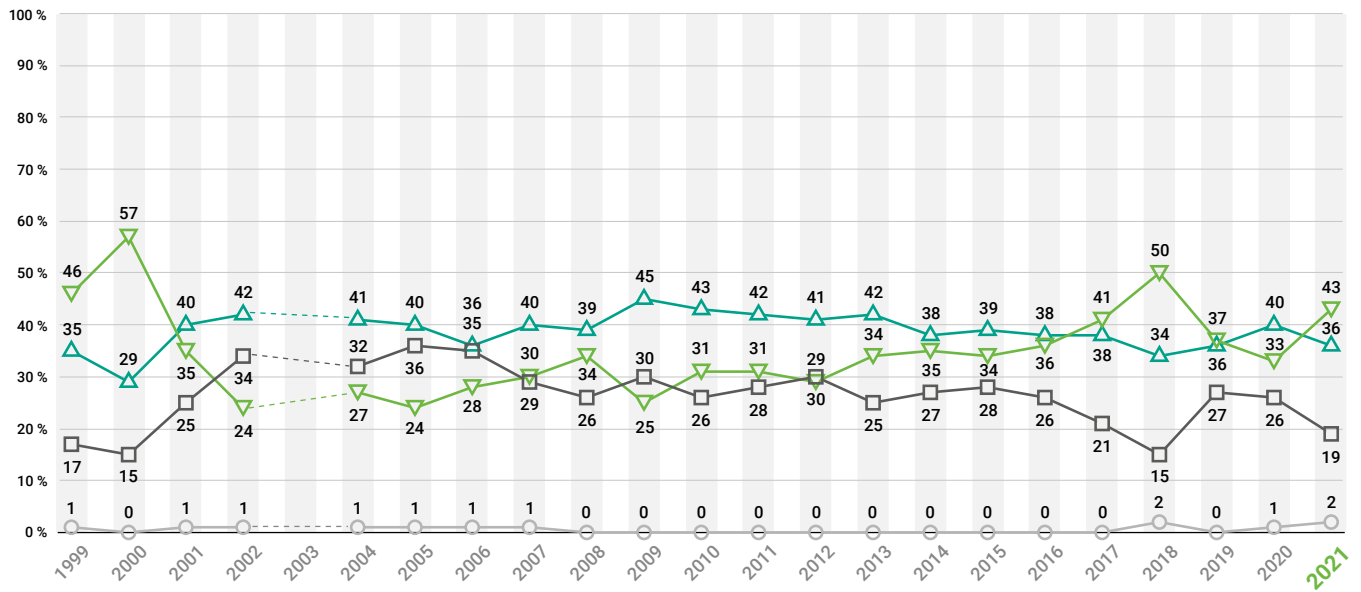
QUESTION N°1
(SERIES)

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

EVOLUTION OF THE RESULTS
1999-2021

Since 2019, some at-risk situations are only displayed every other year. To facilitate the availability of data, we still display the series below. Five graphs do not have data for 2021. Medical risks, hazardous materials transportation, and household waste incinerators are indefinitely removed but still displayed this year.

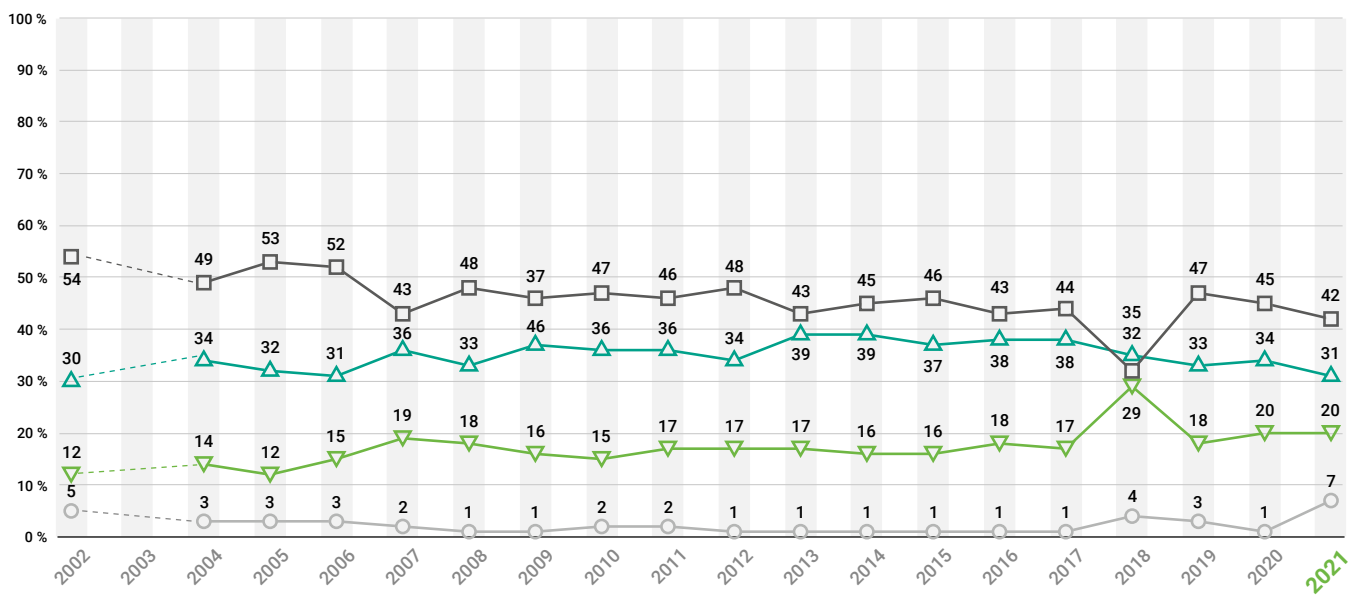
27 – Food products safety*



* The title was "Food products" until 2020.

© IRSN

28 – Medical radiographies



© IRSN

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

▽ HIGH ▲ MEDIUM ◻ LOW ○ DON'T KNOW

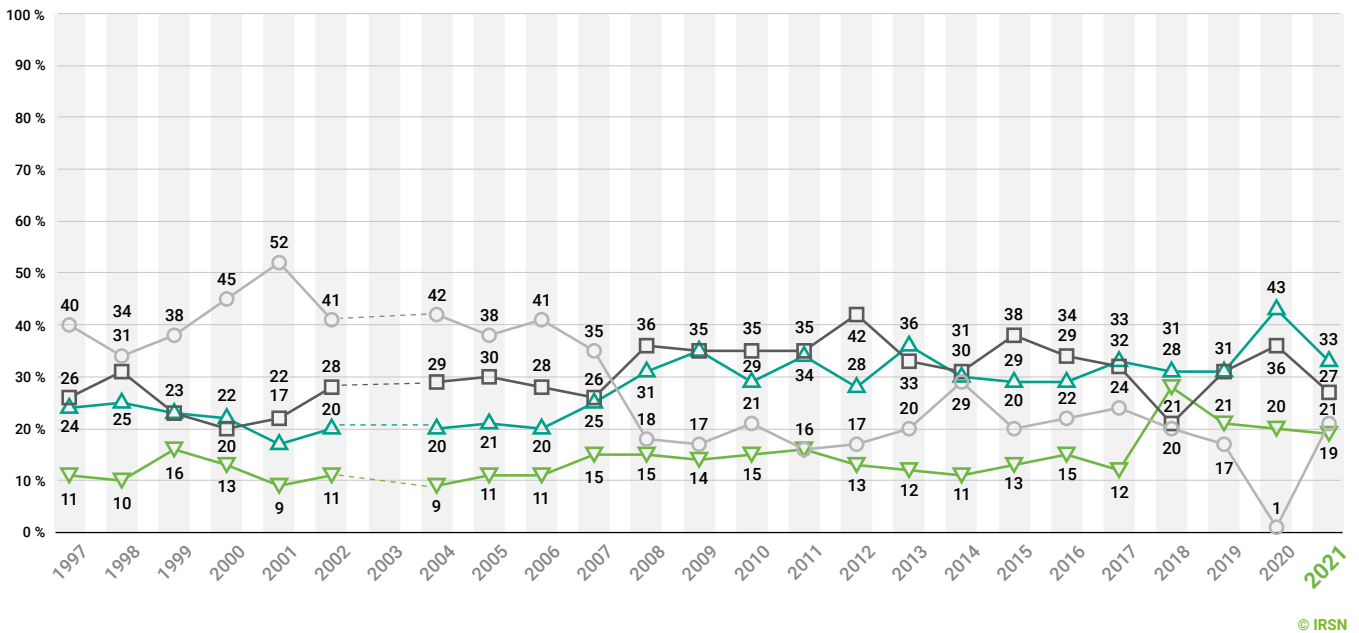
QUESTION N°1
(SERIES)

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

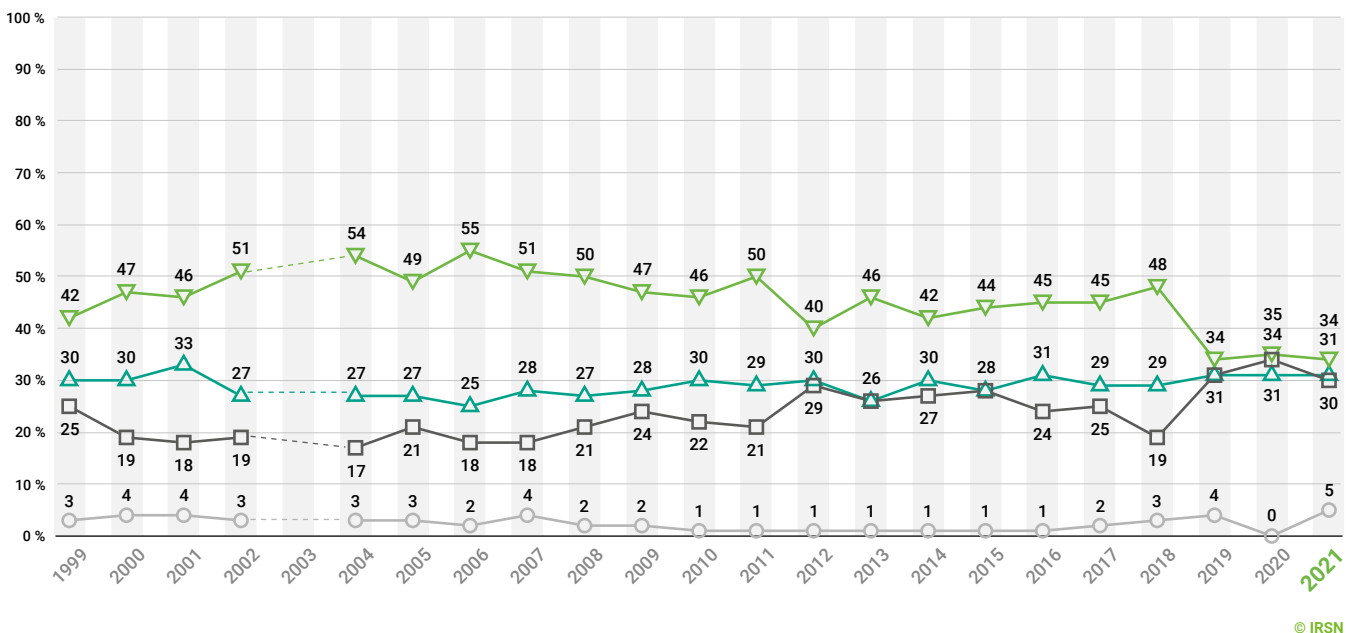
EVOLUTION OF THE RESULTS
1997-2021

Since 2019, some at-risk situations are only displayed every other year. To facilitate the availability of data, we still display the series below. Five graphs do not have data for 2021. Medical risks, hazardous materials transportation, and household waste incinerators are indefinitely removed but still displayed this year.

29 – Indoor Radon



30 – Radioactive fallouts in France from the Chernobyl accident



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

▼ HIGH
 ▲ MEDIUM
 LOW
 DON'T KNOW

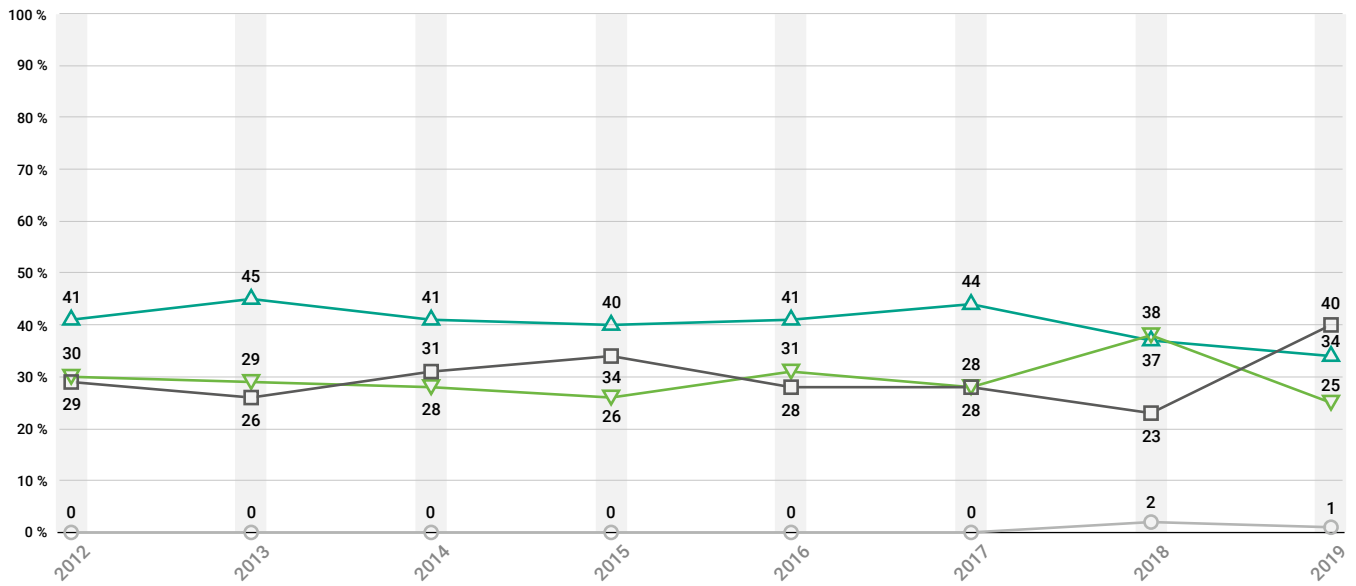
QUESTION N°1
(SERIES)

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

EVOLUTION OF THE RESULTS
1997-2021

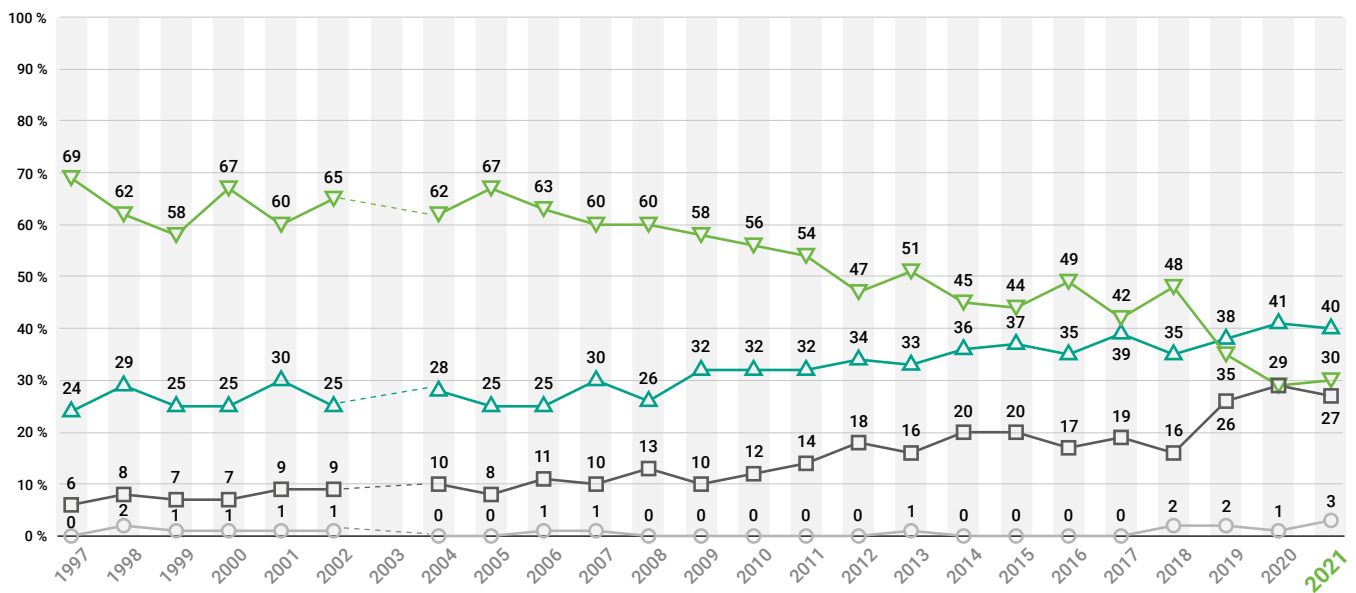
Since 2019, some at-risk situations are only displayed every other year. To facilitate the availability of data, we still display the series below. Five graphs do not have data for 2021. Medical risks, hazardous materials transportation, and household waste incinerators are indefinitely removed but still displayed this year.

31 – Medical risks



© IRSN

32 – AIDS



© IRSN

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

▽ HIGH ▲ MEDIUM □ LOW ○ DON'T KNOW

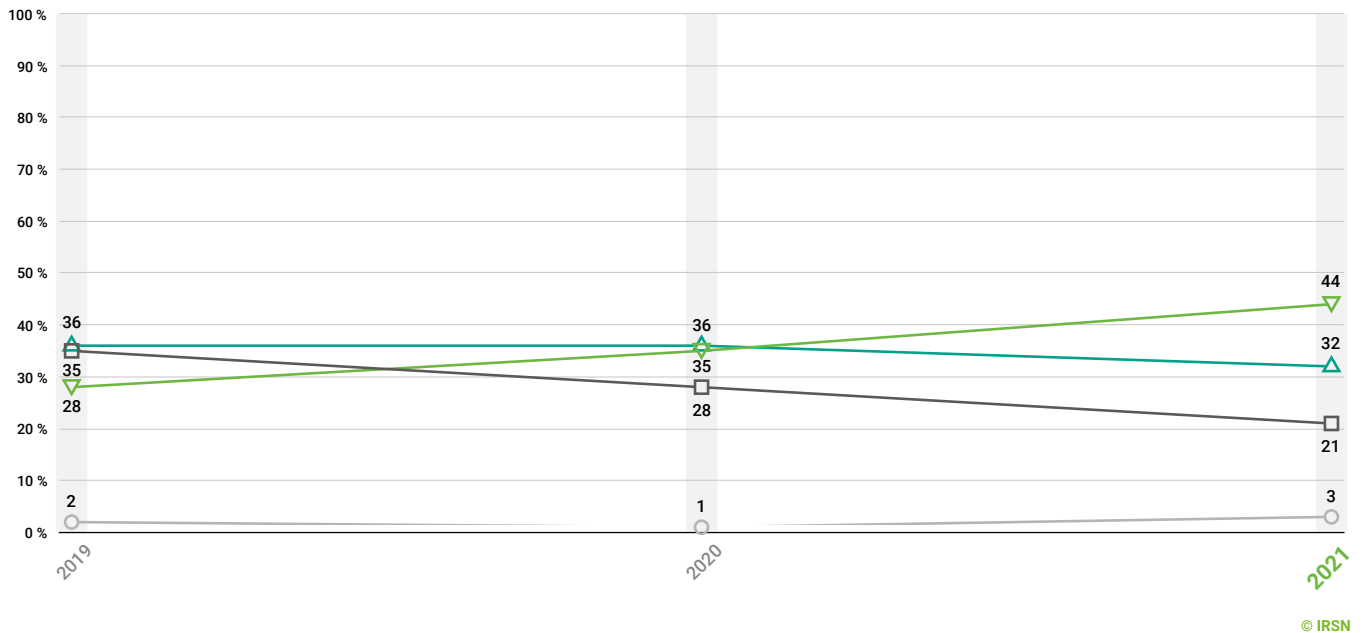
QUESTION N°1
(SERIES)

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

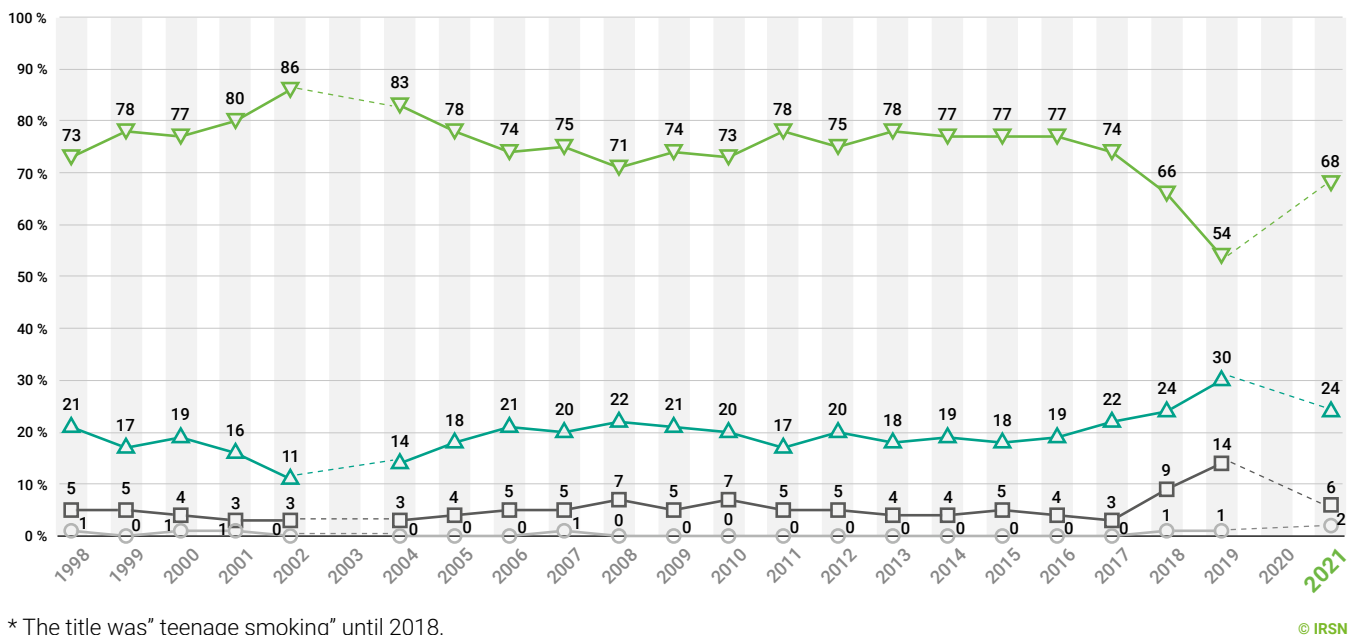
EVOLUTION OF THE RESULTS
1998-2021

Since 2019, some at-risk situations are only displayed every other year. To facilitate the availability of data, we still display the series below. Five graphs do not have data for 2021. Medical risks, hazardous materials transportation, and household waste incinerators are indefinitely removed but still displayed this year.

33 – Marine flooding (temporary flooding caused by the sea)



34 – Tobacco*



* The title was "teenage smoking" until 2018.

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

▽ HIGH ▲ MEDIUM □ LOW ○ DON'T KNOW

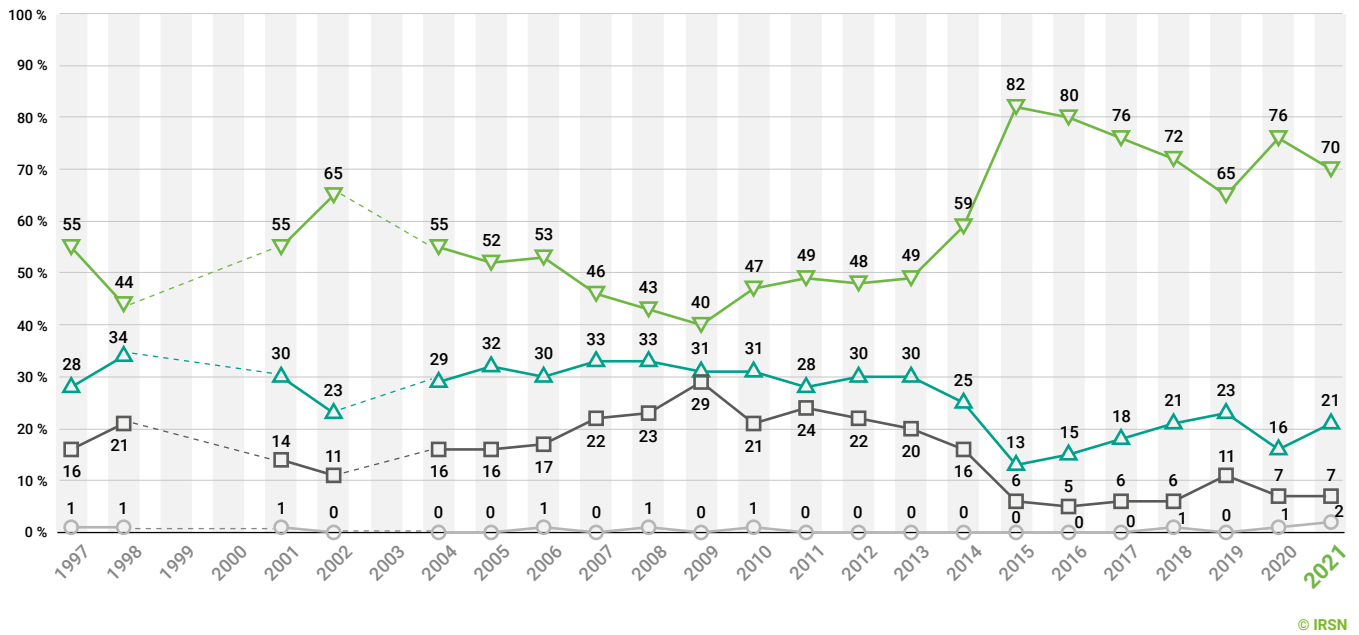
QUESTION N°1
(SERIES)

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

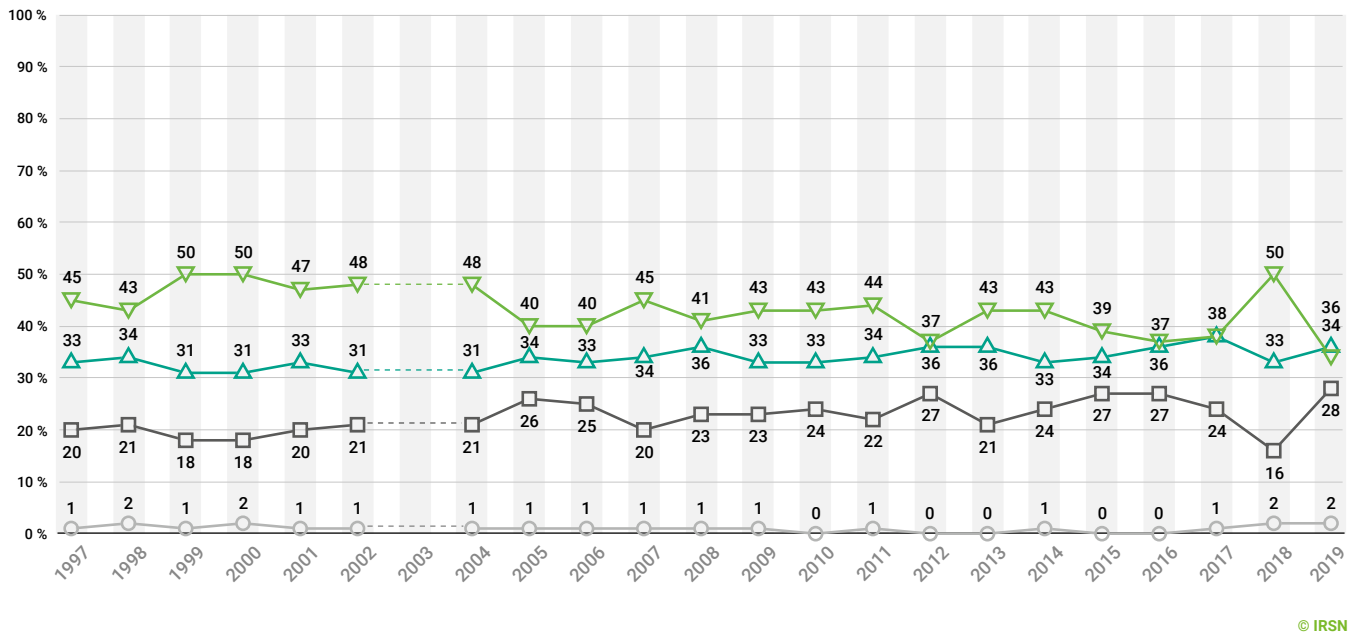
EVOLUTION OF THE RESULTS
1997-2021

Since 2019, some at-risk situations are only displayed every other year. To facilitate the availability of data, we still display the series below. Five graphs do not have data for 2021. Medical risks, hazardous materials transportation, and household waste incinerators are indefinitely removed but still displayed this year.

35 – Terrorism



36 – Hazardous materials transportations



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

▽ HIGH ▲ MEDIUM □ LOW ○ DON'T KNOW

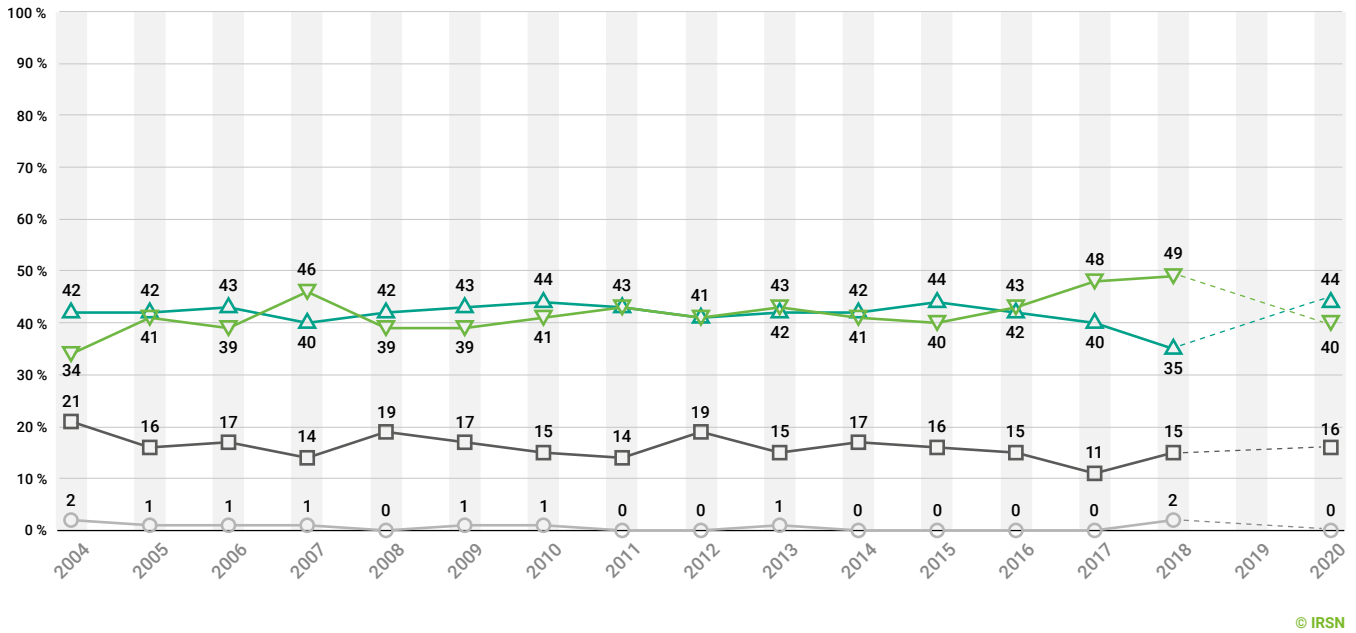
QUESTION N°1
(SERIES)

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

EVOLUTION OF THE RESULTS
2004-2021

Since 2019, some at-risk situations are only displayed every other year. To facilitate the availability of data, we still display the series below. Five graphs do not have data for 2021. Medical risks, hazardous materials transportation, and household waste incinerators are indefinitely removed but still displayed this year.

37 – Occupational diseases



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

▼ HIGH
 ▲ MEDIUM
 LOW
 DON'T KNOW

QUESTION N°2

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

NOVEMBER 2021

CANCER



PANDEMICS (GLOBAL EPIDEMICS)



AIR POLLUTION



PESTICIDES



TERRORISM



WATER POLLUTION



SOIL POLLUTION



TRAFFIC ACCIDENTS



FOOD PRODUCTS SAFETY



HEAT WAVES



ENDOCRINE DISRUPTORS



TOBACCO



CHEMICAL WASTE



GMO'S (GENETICALLY MODIFIED ORGANISMS)



NOISE POLLUTION



OBESITY



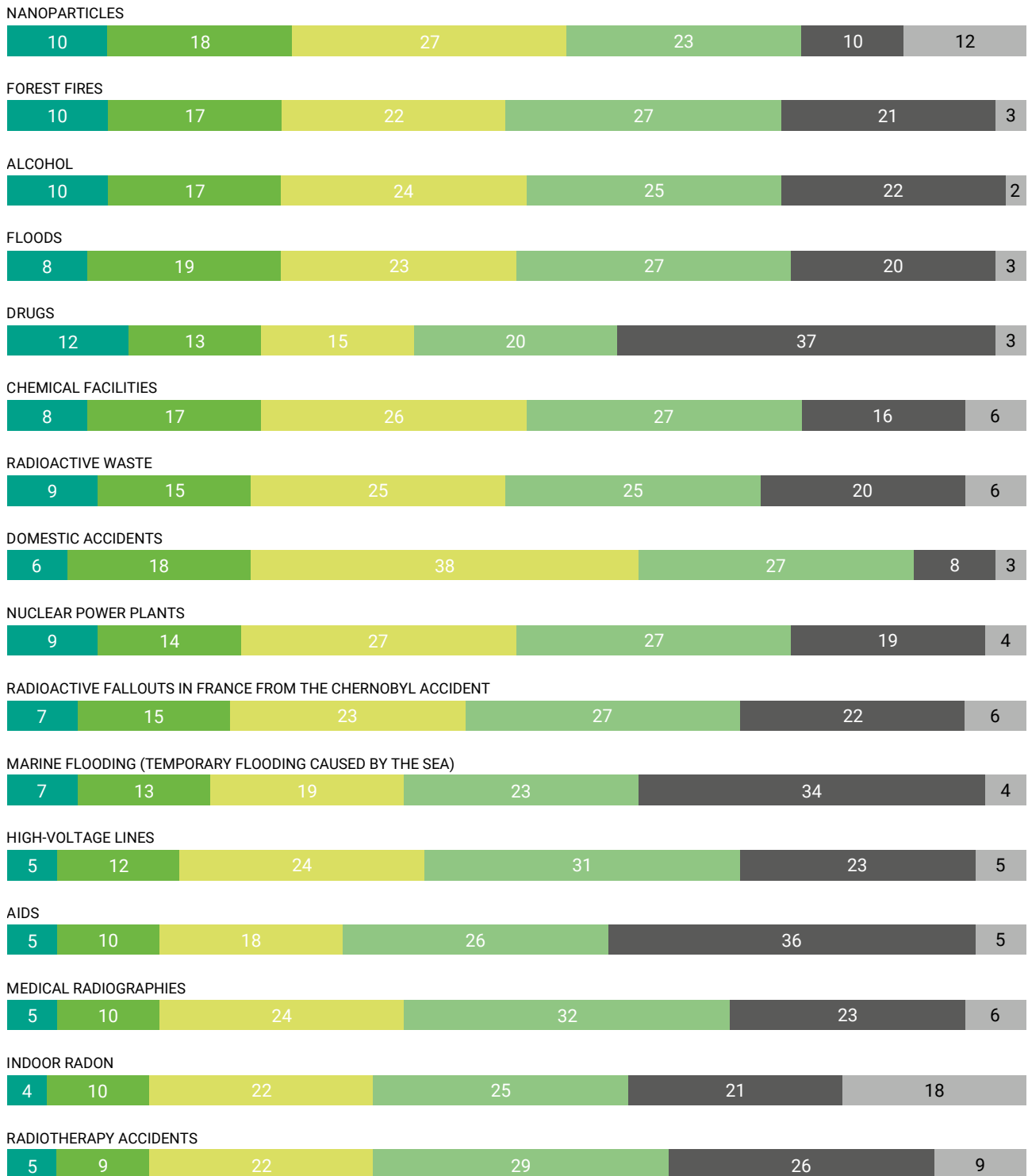
■ VERY HIGH
 ■ HIGH
 ■ MEDIUM
 ■ LOW
 ■ NEAR ZERO
 ■ DON'T KNOW

© IRSN

QUESTION N°2
(SERIES)

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

NOVEMBER 2021



■ VERY HIGH ■ HIGH ■ MEDIUM ■ LOW ■ NEAR ZERO ■ DON'T KNOW

© IRSN

QUESTION N°3

Have you or the people close to you been personally exposed to these risks?

NOVEMBER 2021

TOBACCO



TRAFFIC ACCIDENTS



AIR POLLUTION



NOISE POLLUTION



ALCOHOL



DOMESTIC ACCIDENTS



MEDICAL RADIOGRAPHIES



FLOODS



DRUGS



FOREST FIRES



TERRORISM



INDOOR RADON



MARINE FLOODING (TEMPORARY FLOODING CAUSED BY THE SEA)



AIDS



RADIOTHERAPY ACCIDENTS



■ YES ■ NO ■ DONT KNOW

QUESTION N°4

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

NOVEMBER 2021

AIDS



TERRORISM



TRAFFIC ACCIDENTS



CANCER



FOREST FIRES



MEDICAL RADIOGRAPHIES



FOOD PRODUCTS SAFETY



NUCLEAR POWER PLANTS



PANDEMICS (GLOBAL EPIDEMICS)



RADIOTHERAPY ACCIDENTS



HIGH-VOLTAGE LINES



HEAT WAVES



TOBACCO



DOMESTIC ACCIDENTS



ALCOHOL



OBESITY



■ YES, DEFINITELY
 ■ YES, SOMEWHAT
 ■ NEITHER TRUST NOR DOESN'T TRUST
■ NO, NOT REALLY
 ■ NO, NOT AT ALL
 ■ DON'T KNOW

© IRSN

QUESTION N°4
(SERIES)

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

NOVEMBER 2021

WATER POLLUTION



FLOODS



RADIOACTIVE WASTE



MARINE FLOODING (TEMPORARY FLOODING CAUSED BY THE SEA)



CHEMICAL FACILITIES



GMO'S (GENETICALLY MODIFIED ORGANISMS)



AIR POLLUTION



NOISE POLLUTION



CHEMICAL WASTE



DRUGS



INDOOR RADON



RADIOACTIVE FALLOUT IN FRANCE FROM THE CHERNOBYL ACCIDENT



PESTICIDES



SOIL POLLUTION



NANOPARTICLES



ENDOCRINE DISRUPTORS



■ YES, DEFINITELY
 ■ YES, SOMEWHAT
 ■ NEITHER TRUST NOR DOESN'T TRUST
■ NO, NOT REALLY
 ■ NO, NOT AT ALL
 ■ DON'T KNOW

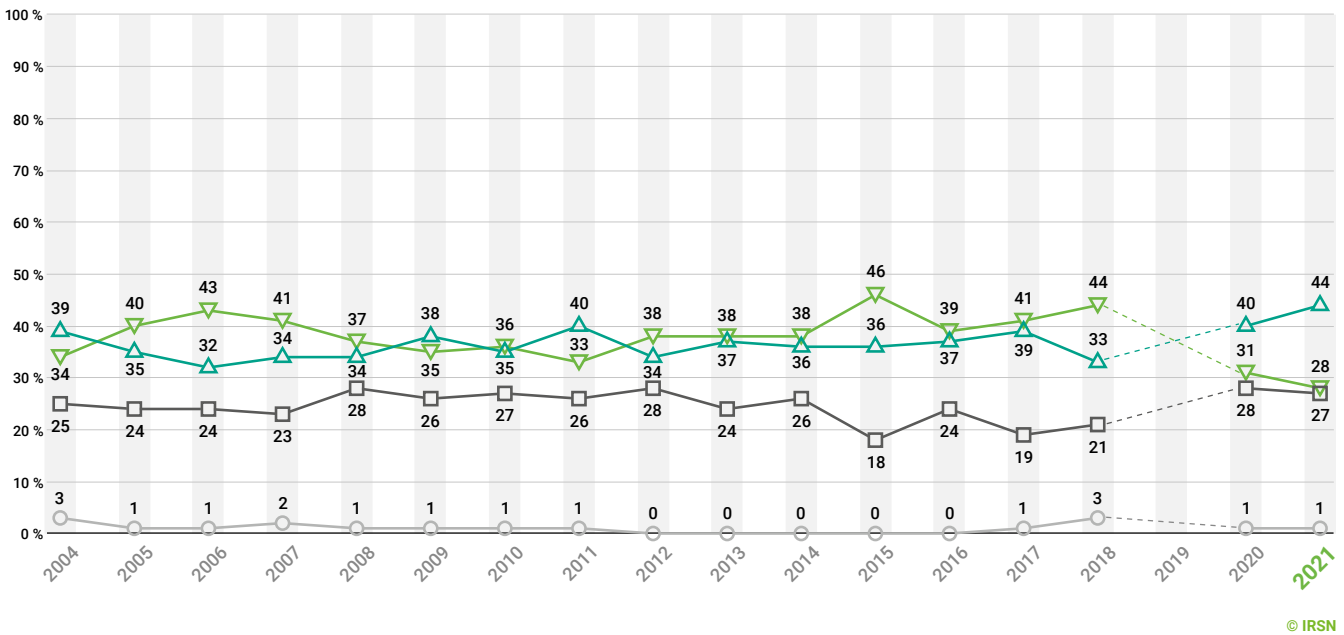
© IRSN

QUESTION N°4 : Do you trust the French authorities to protect people
(SERIES) : against the following risks?

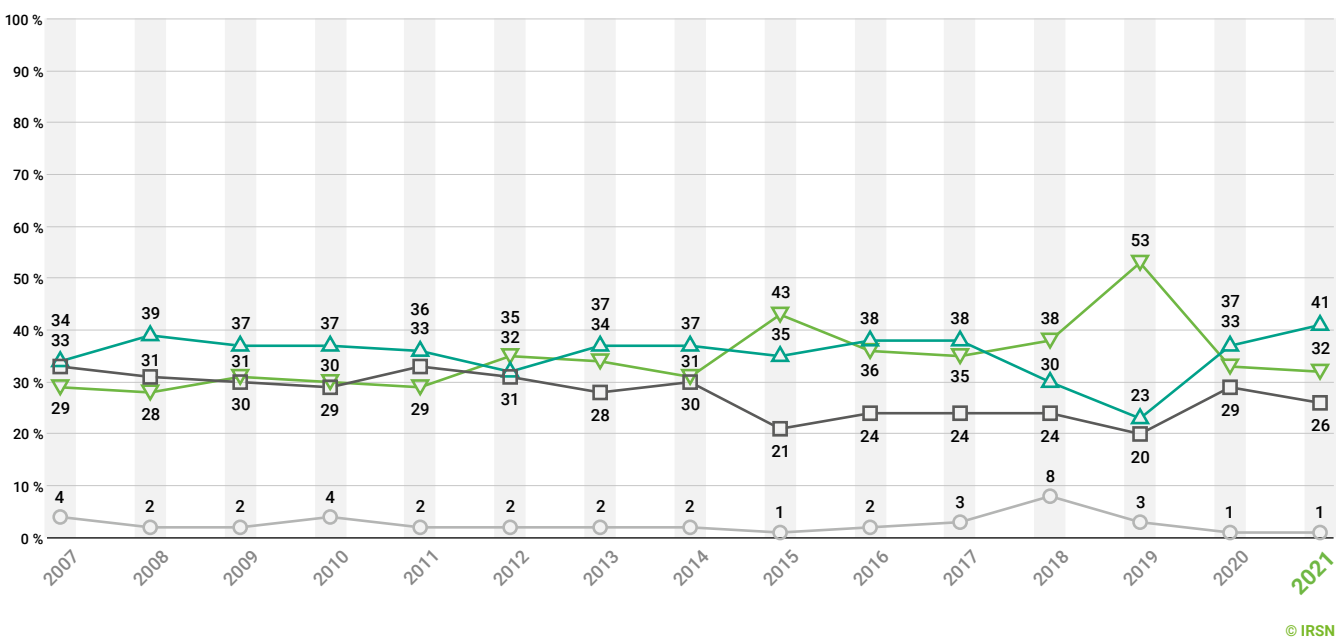
EVOLUTION OF THE RESULTS
2004-2021

Since 2019, some at-risk situations are only displayed every other year. To facilitate the availability of data, we still display the series below. Five graphs do not have data for 2021. Medical risks, hazardous materials transportation, and household waste incinerators are indefinitely removed but still displayed this year.

1 – Domestic accidents



2 – Radiotherapy accidents



The answers "Yes, definitely" and "Yes, somewhat" were grouped into "Yes"; "No, not really" and "No, not at all" answers into "No". Since 2019, "More or less" was replaced by "Neither trust nor doesn't trust".

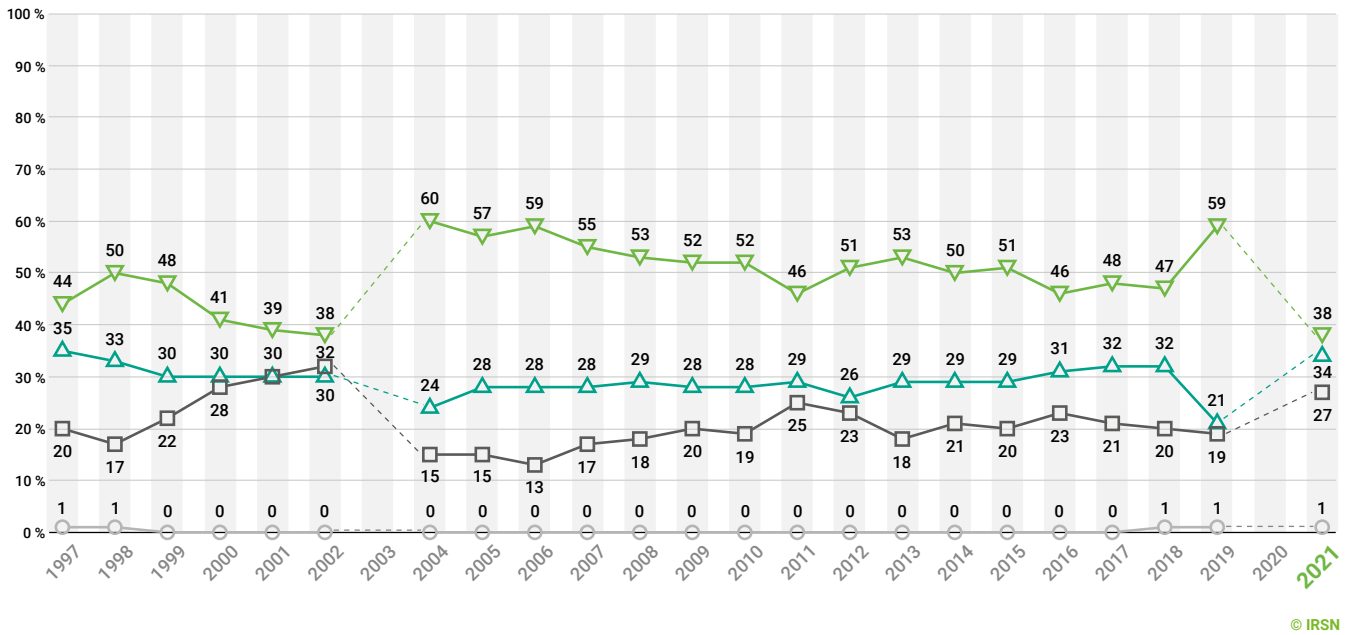
▲ YES
 ▲ NEITHER TRUST NOR DOESN'T TRUST
 NO
 DON'T KNOW

QUESTION N°4 : Do you trust the French authorities to protect people
(SERIES) : against the following risks?

EVOLUTION OF THE RESULTS
1997-2021

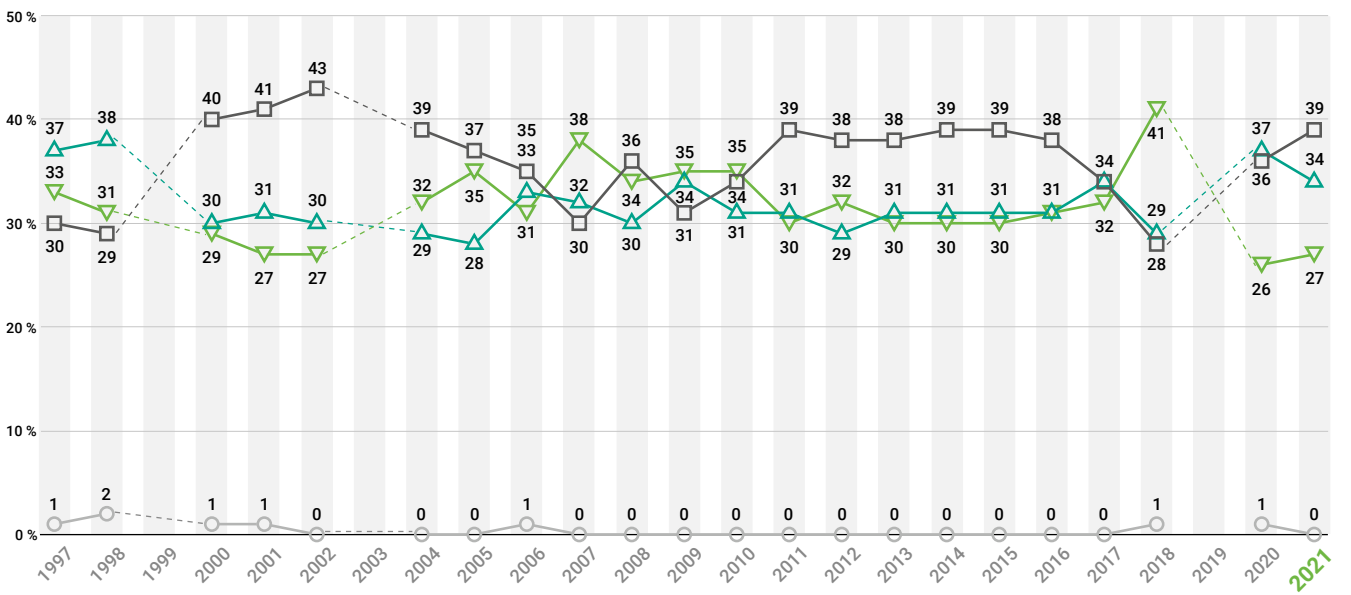
Since 2019, some at-risk situations are only displayed every other year. To facilitate the availability of data, we still display the series below. Five graphs do not have data for 2021. Medical risks, hazardous materials transportation, and household waste incinerators are indefinitely removed but still displayed this year.

3 – Traffic accidents



© IRSN

4 – Alcohol*



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

© IRSN

The answers "Yes, definitely" and "Yes, somewhat" were grouped into "Yes"; "No, not really" and "No, not at all" answers into "No". Since 2019, "More or less" was replaced by "Neither trust nor doesn't trust".

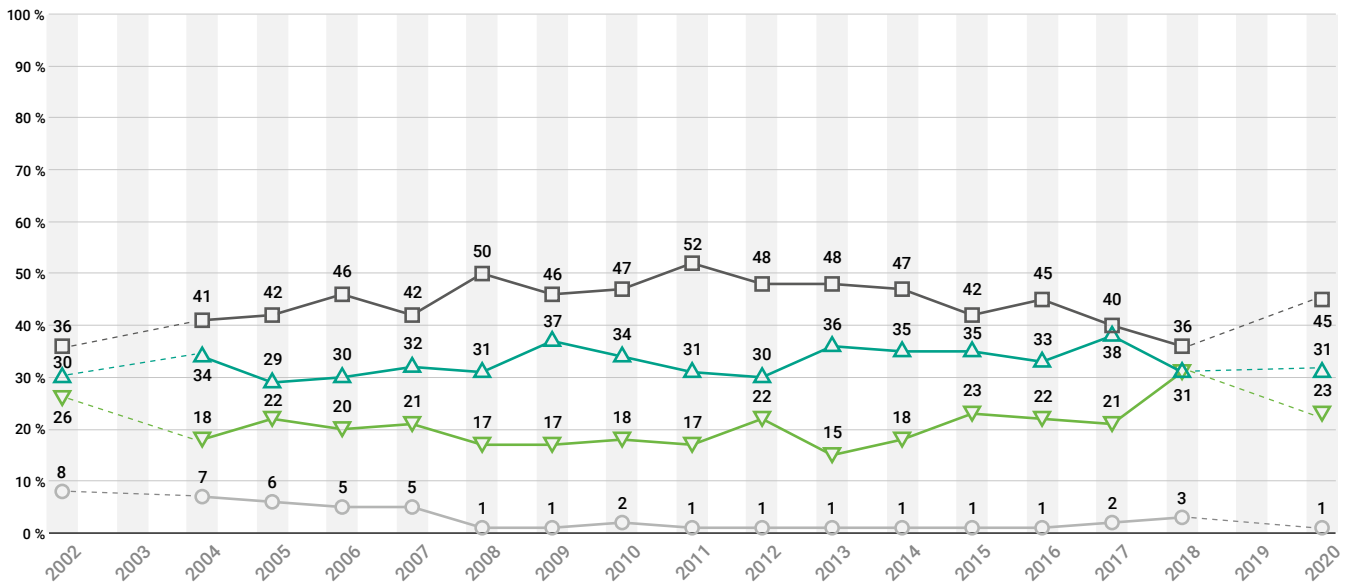
▽ YES ▲ NEITHER TRUST NOR DOESN'T TRUST □ NO ○ DON'T KNOW

QUESTION N°4 : Do you trust the French authorities to protect people
(SERIES) : against the following risks?

EVOLUTION OF THE RESULTS
2002-2021

Since 2019, some at-risk situations are only displayed every other year. To facilitate the availability of data, we still display the series below. Five graphs do not have data for 2021. Medical risks, hazardous materials transportation, and household waste incinerators are indefinitely removed but still displayed this year.

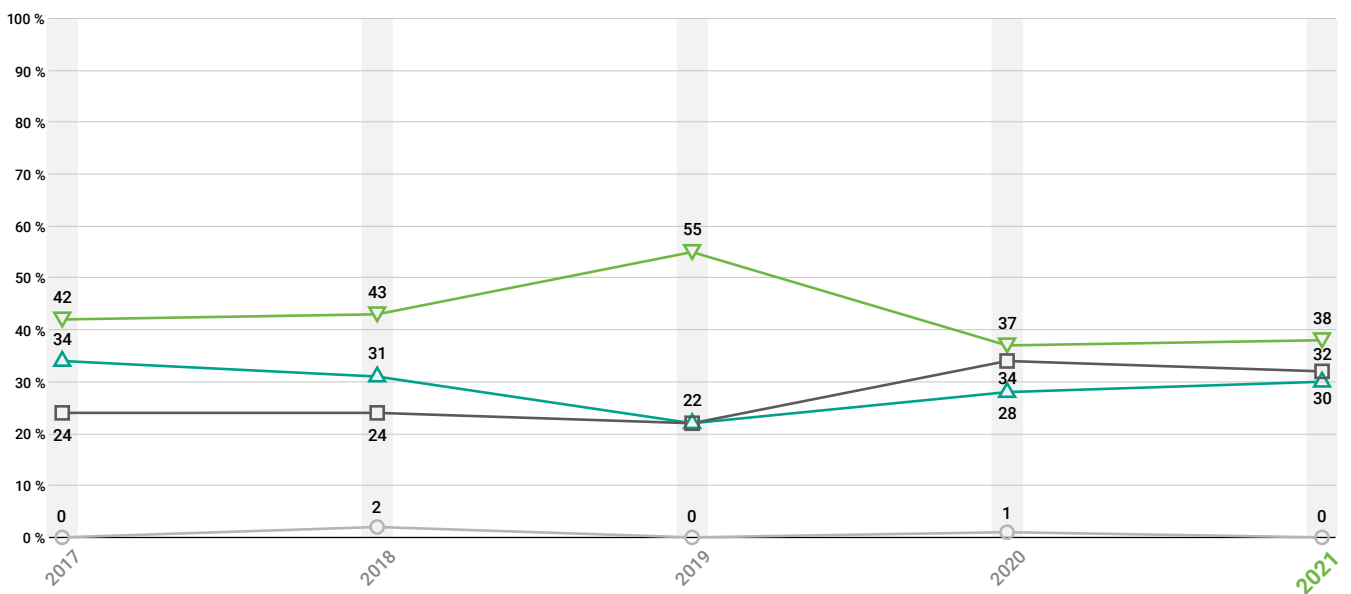
5 – Mobile phone relay antennas*



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

© IRSN

6 – Cancer



© IRSN

The answers "Yes, definitely" and "Yes, somewhat" were grouped into "Yes"; "No, not really" and "No, not at all" answers into "No". Since 2019, "More or less" was replaced by "Neither trust nor doesn't trust".

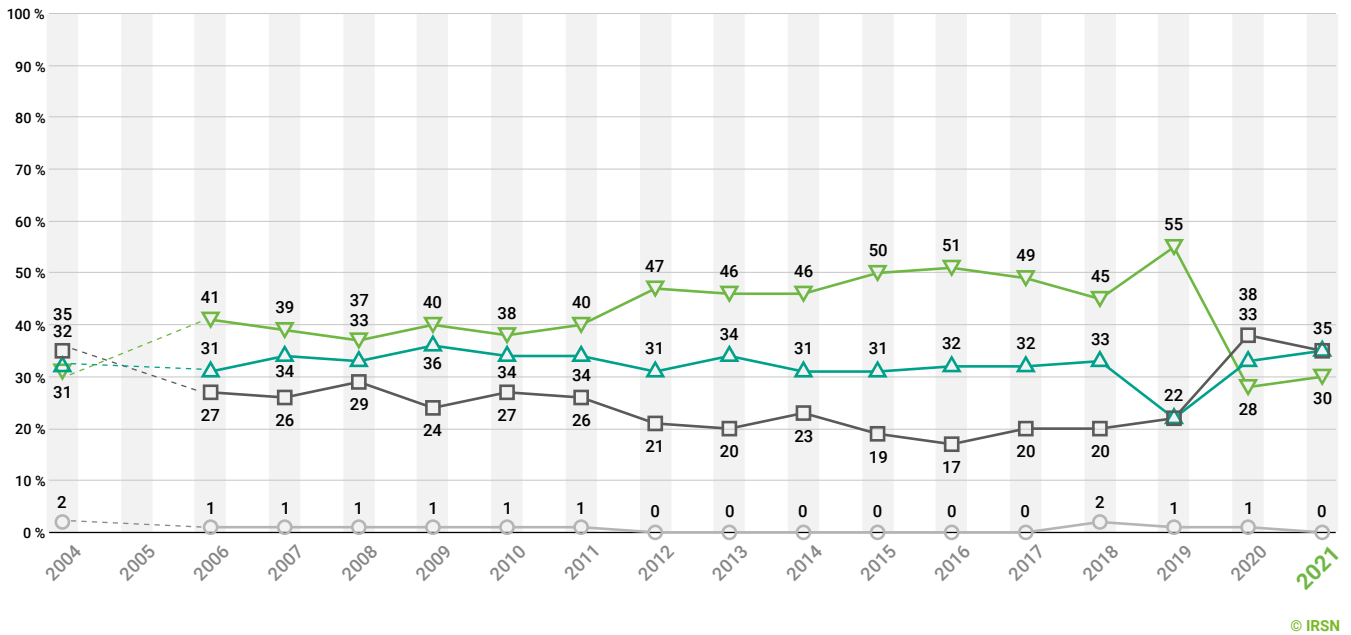
▽ YES ▲ NEITHER TRUST NOR DOESN'T TRUST □ NO ○ DON'T KNOW

QUESTION N°4 : Do you trust the French authorities to protect people
(SERIES) : against the following risks?

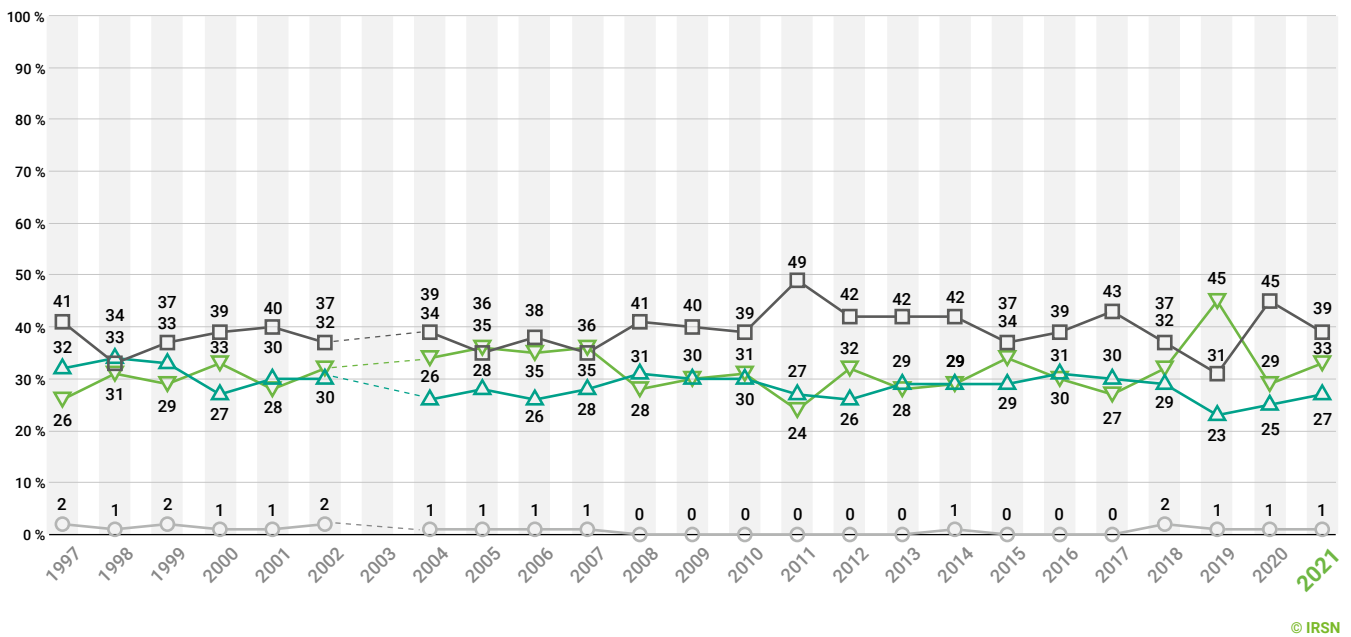
EVOLUTION OF THE RESULTS
1997-2021

Since 2019, some at-risk situations are only displayed every other year. To facilitate the availability of data, we still display the series below. Five graphs do not have data for 2021. Medical risks, hazardous materials transportation, and household waste incinerators are indefinitely removed but still displayed this year.

7 – Heat waves



8 – Nuclear power plants



The answers "Yes, definitely" and "Yes, somewhat" were grouped into "Yes"; "No, not really" and "No, not at all" answers into "No". Since 2019, "More or less" was replaced by "Neither trust nor doesn't trust".

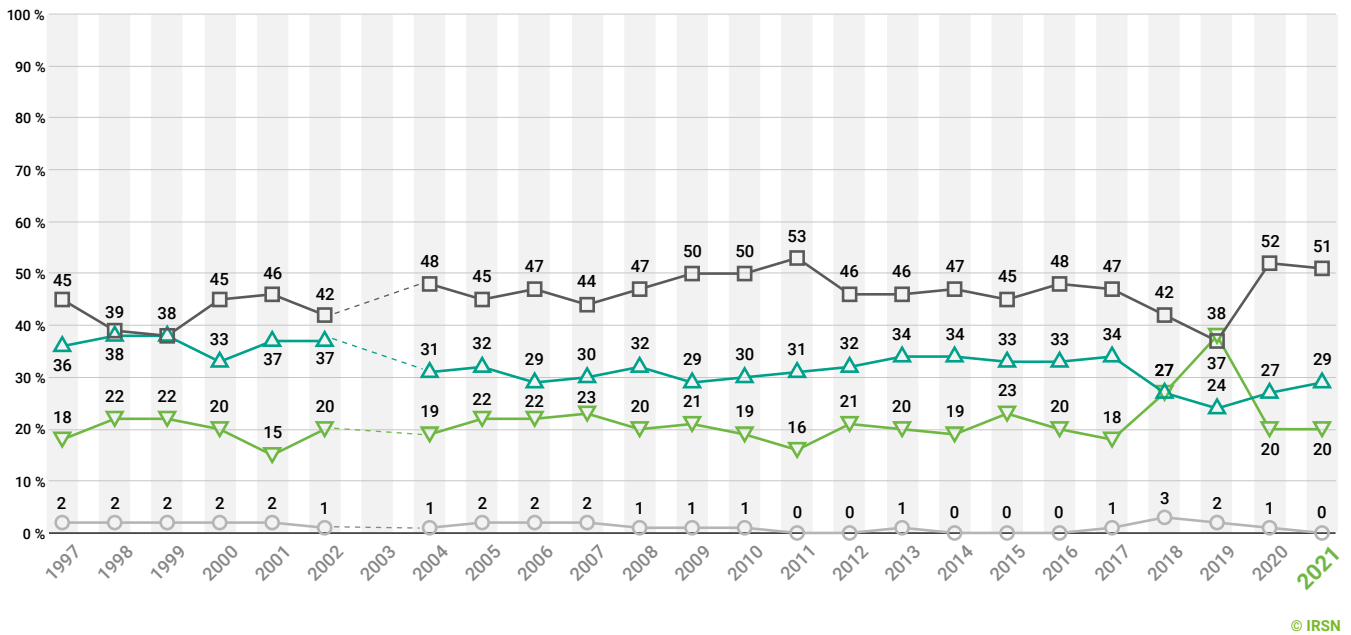
▽ YES ▲ NEITHER TRUST NOR DOESN'T TRUST □ NO ○ DON'T KNOW

QUESTION N°4 : Do you trust the French authorities to protect people
(SERIES) : against the following risks?

EVOLUTION OF THE RESULTS
1997-2021

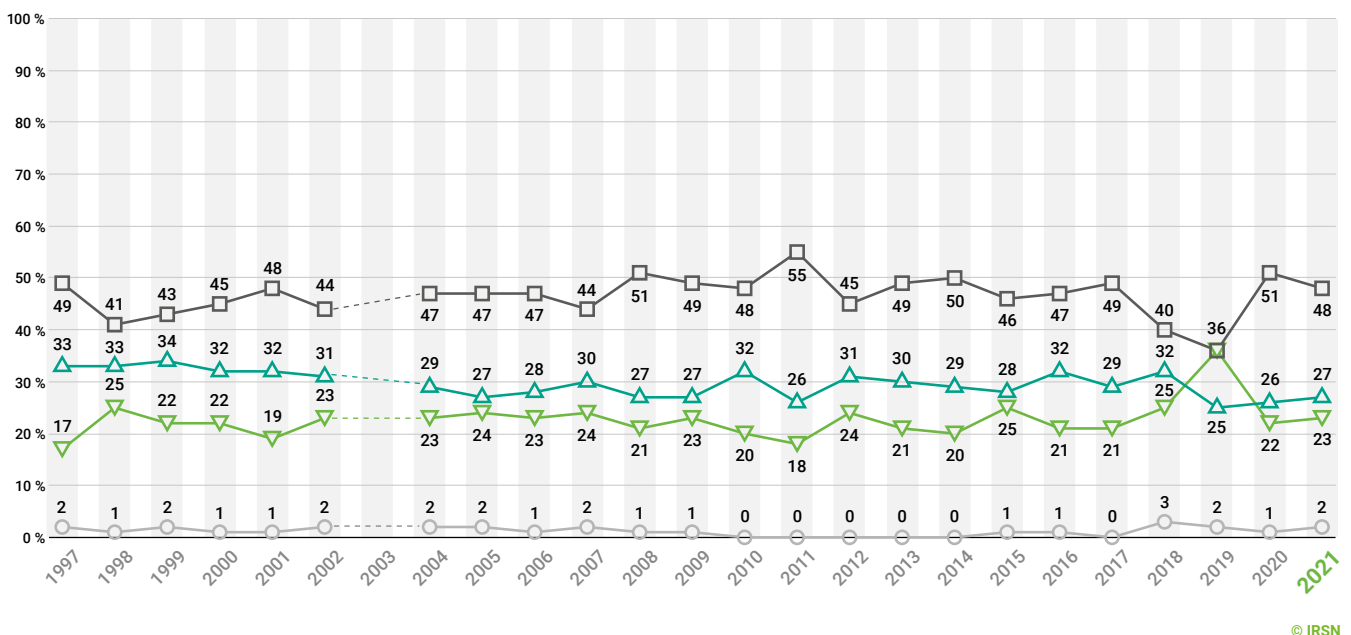
Since 2019, some at-risk situations are only displayed every other year. To facilitate the availability of data, we still display the series below. Five graphs do not have data for 2021. Medical risks, hazardous materials transportation, and household waste incinerators are indefinitely removed but still displayed this year.

9 – Chemical waste



© IRSN

10 – Radioactive waste



© IRSN

The answers "Yes, definitely" and "Yes, somewhat" were grouped into "Yes"; "No, not really" and "No, not at all" answers into "No". Since 2019, "More or less" was replaced by "Neither trust nor doesn't trust".

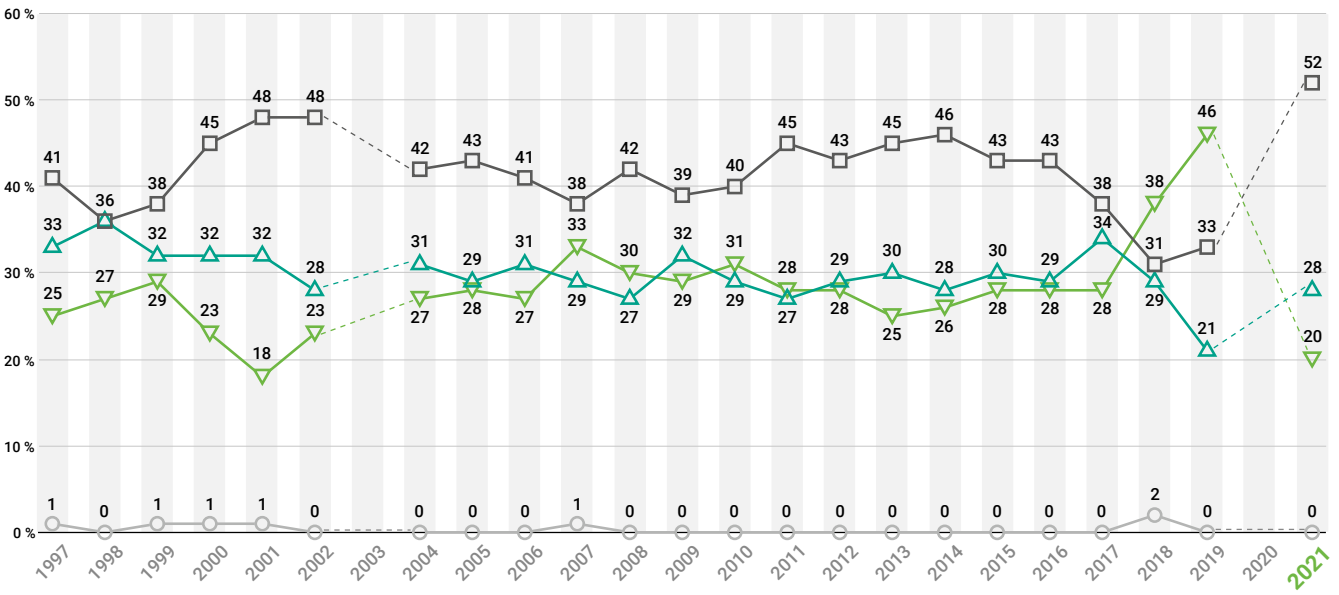
▽ YES
 △ NEITHER TRUST NOR DOESN'T TRUST
 NO
 DON'T KNOW

QUESTION N°4 : Do you trust the French authorities to protect people
(SERIES) : against the following risks?

EVOLUTION OF THE RESULTS
1997-2021

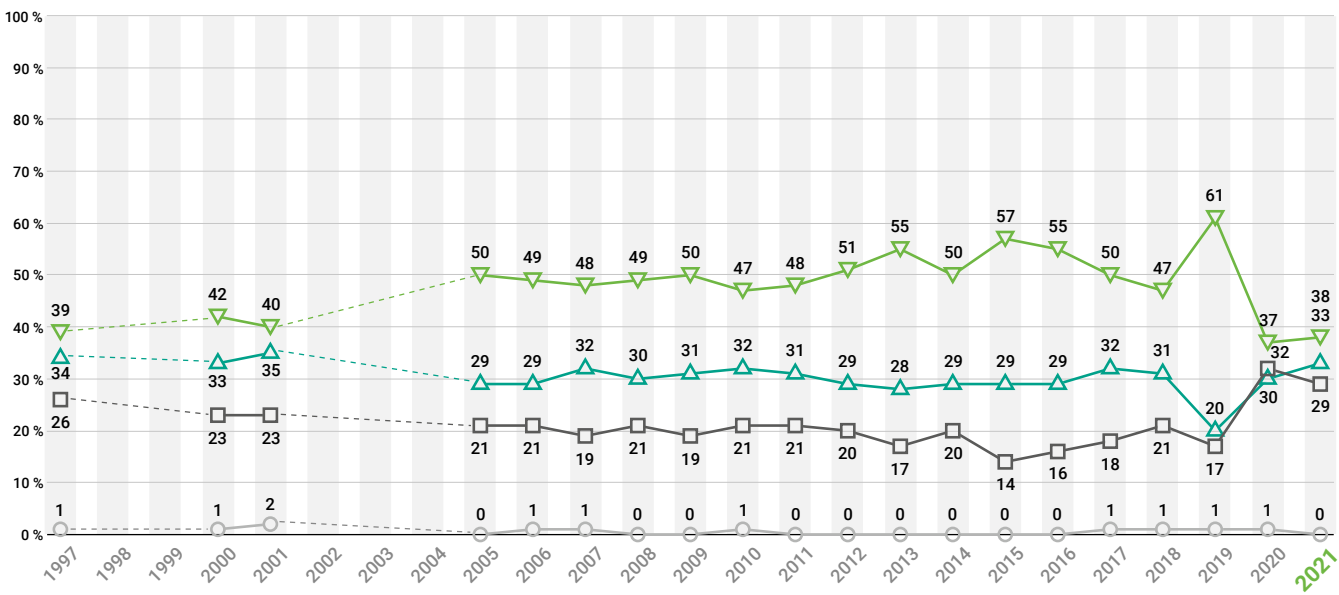
Since 2019, some at-risk situations are only displayed every other year. To facilitate the availability of data, we still display the series below. Five graphs do not have data for 2021. Medical risks, hazardous materials transportation, and household waste incinerators are indefinitely removed but still displayed this year.

11 – Drugs



© IRSN

12 – Forest fires



© IRSN

The answers "Yes, definitely" and "Yes, somewhat" were grouped into "Yes"; "No, not really" and "No, not at all" answers into "No". Since 2019, "More or less" was replaced by "Neither trust nor doesn't trust".

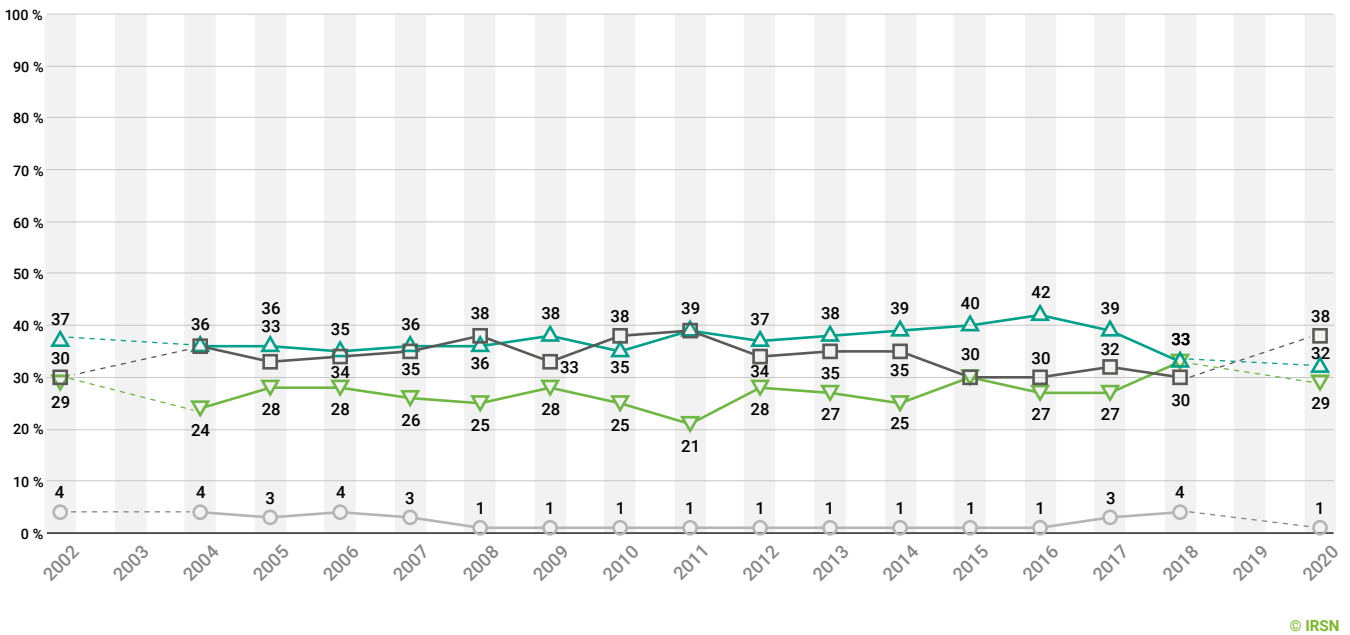
▽ YES
 △ NEITHER TRUST NOR DOESN'T TRUST
 □ NO
 ○ DON'T KNOW

QUESTION N°4 : Do you trust the French authorities to protect people
(SERIES) : against the following risks?

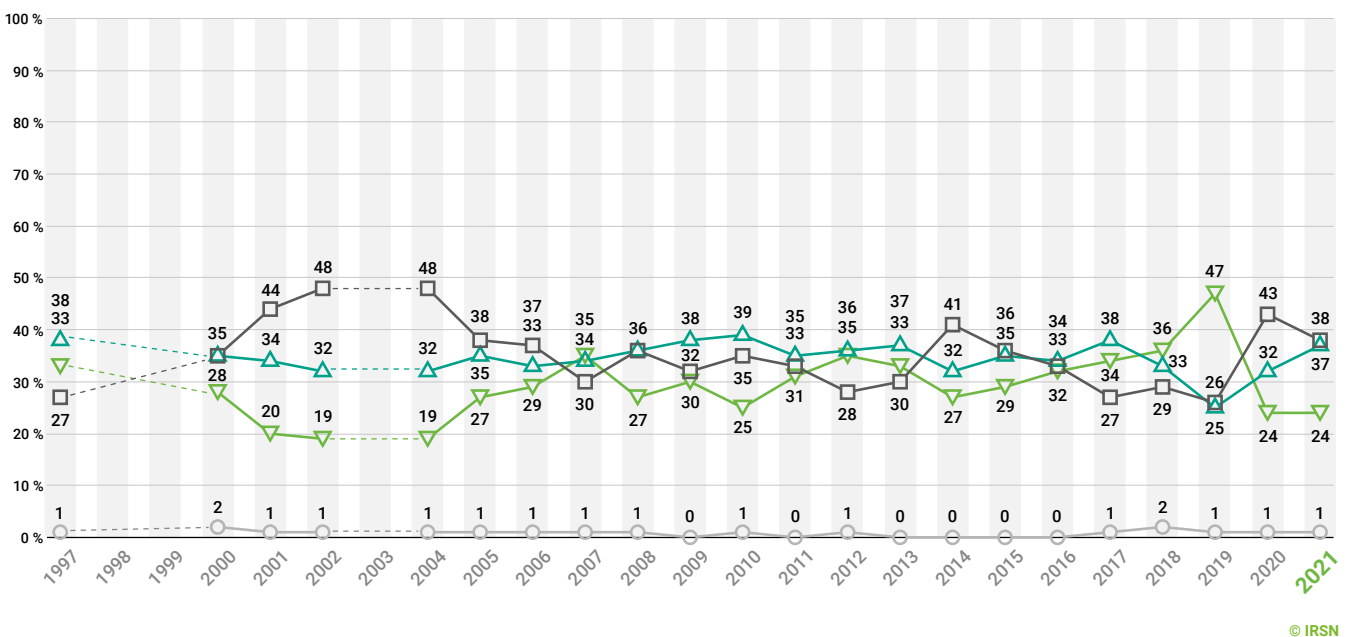
EVOLUTION OF THE RESULTS
1997-2021

Since 2019, some at-risk situations are only displayed every other year. To facilitate the availability of data, we still display the series below. Five graphs do not have data for 2021. Medical risks, hazardous materials transportation, and household waste incinerators are indefinitely removed but still displayed this year.

13 – Household waste incinerators



14 – Floods



The answers "Yes, definitely" and "Yes, somewhat" were grouped into "Yes"; "No, not really" and "No, not at all" answers into "No". Since 2019, "More or less" was replaced by "Neither trust nor doesn't trust".

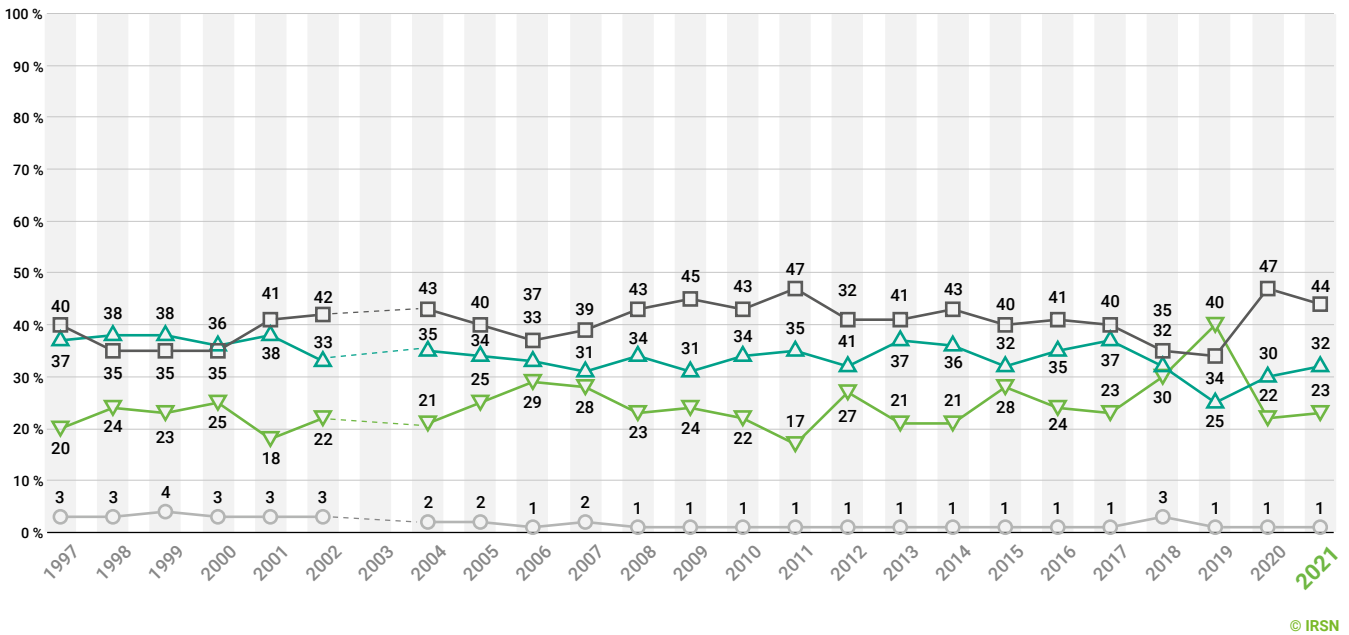
▽ YES
 △ NEITHER TRUST NOR DOESN'T TRUST
 □ NO
 ○ DON'T KNOW

QUESTION N°4 : Do you trust the French authorities to protect people
(SERIES) : against the following risks?

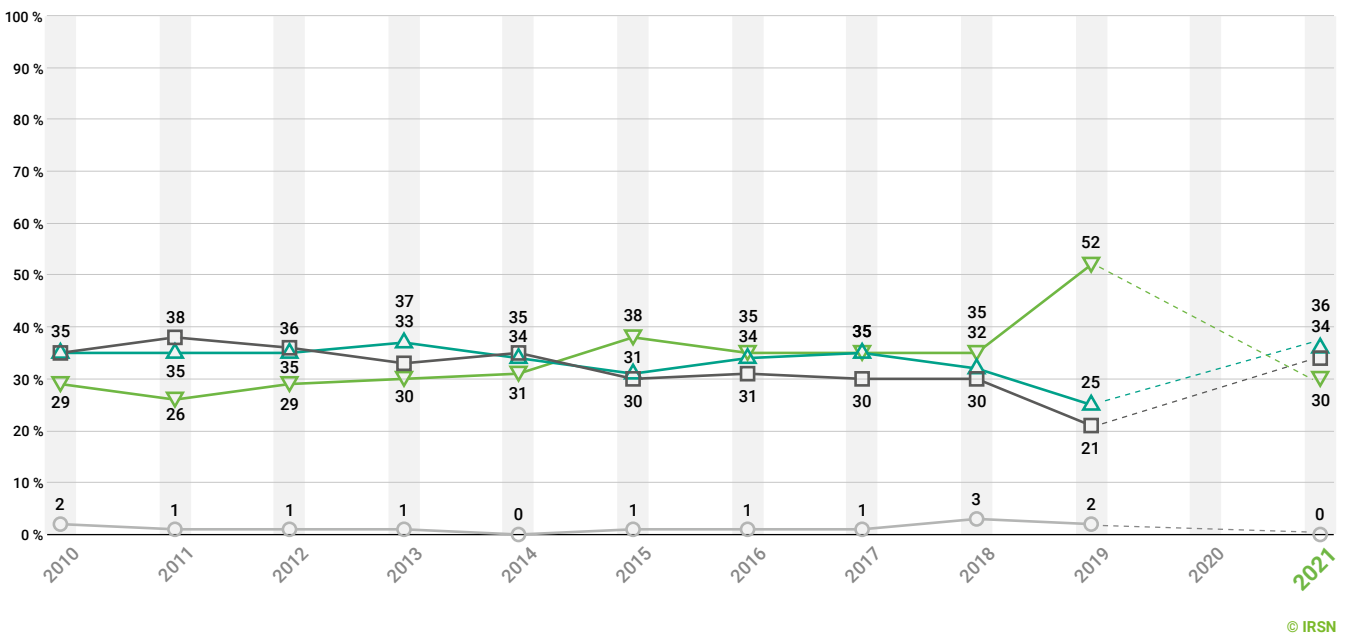
EVOLUTION OF THE RESULTS
1997-2021

Since 2019, some at-risk situations are only displayed every other year. To facilitate the availability of data, we still display the series below. Five graphs do not have data for 2021. Medical risks, hazardous materials transportation, and household waste incinerators are indefinitely removed but still displayed this year.

15 – Chemical Facilities



16 – High-voltage lines



The answers "Yes, definitely" and "Yes, somewhat" were grouped into "Yes"; "No, not really" and "No, not at all" answers into "No". Since 2019, "More or less" was replaced by "Neither trust nor doesn't trust".

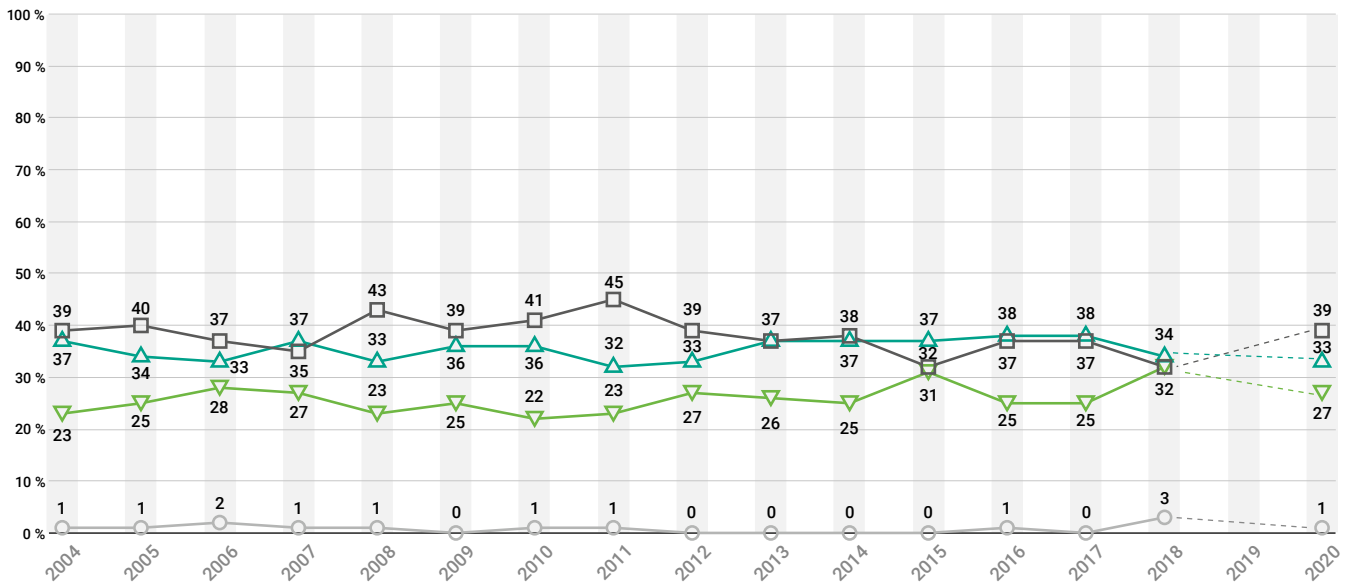
▽ YES ▲ NEITHER TRUST NOR DOESN'T TRUST □ NO ○ DON'T KNOW

QUESTION N°4 : Do you trust the French authorities to protect people
(SERIES) : against the following risks?

EVOLUTION OF THE RESULTS
2004-2021

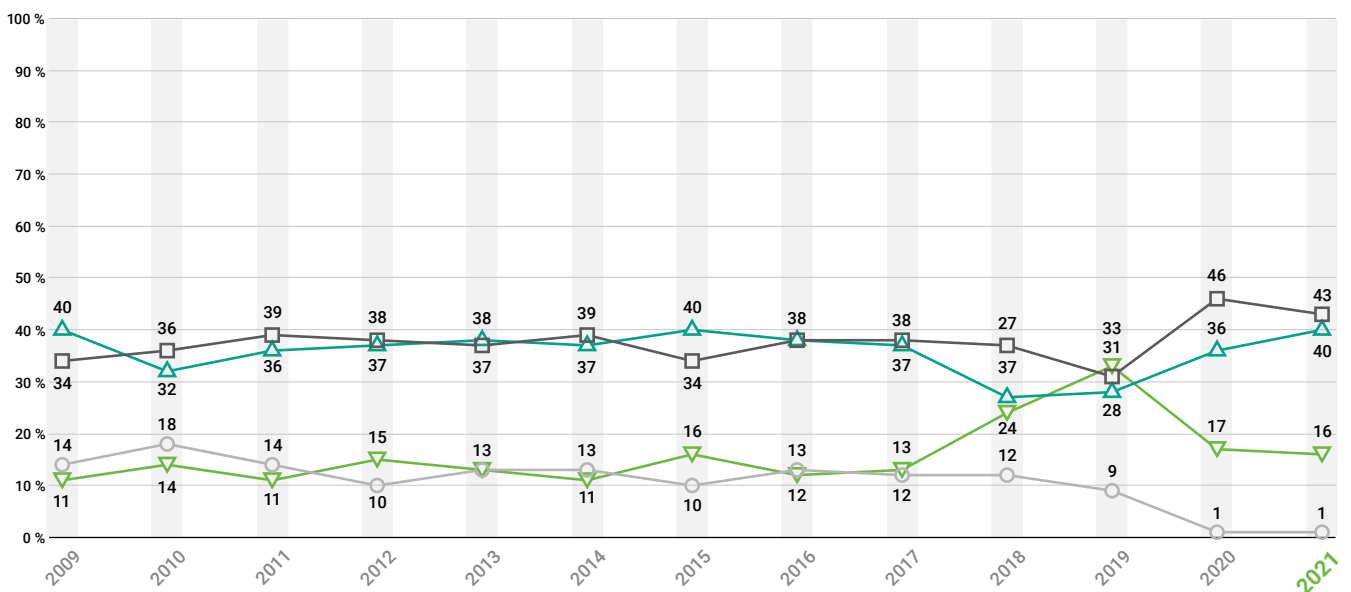
Since 2019, some at-risk situations are only displayed every other year. To facilitate the availability of data, we still display the series below. Five graphs do not have data for 2021. Medical risks, hazardous materials transportation, and household waste incinerators are indefinitely removed but still displayed this year.

17 – Occupational diseases



© IRSN

18 – Nanoparticles



© IRSN

The answers "Yes, definitely" and "Yes, somewhat" were grouped into "Yes"; "No, not really" and "No, not at all" answers into "No". Since 2019, "More or less" was replaced by "Neither trust nor doesn't trust".

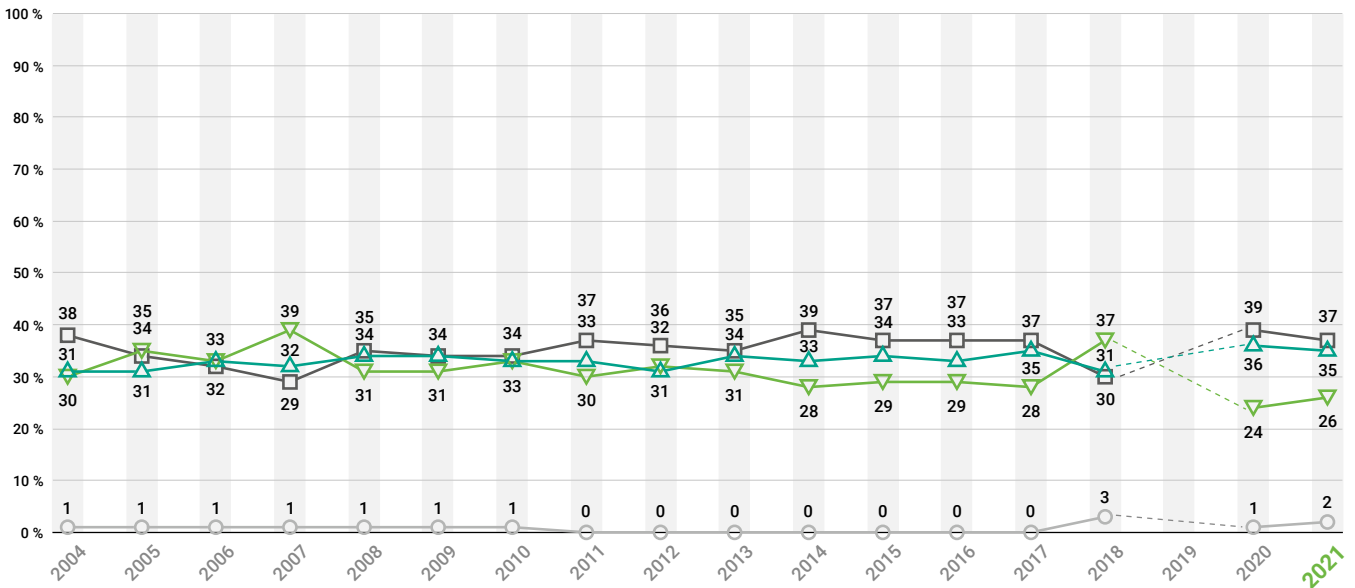
▽ YES
 △ NEITHER TRUST NOR DOESN'T TRUST
 □ NO
 ○ DON'T KNOW

QUESTION N°4 (SERIES) : Do you trust the French authorities to protect people against the following risks?

EVOLUTION OF THE RESULTS 1999-2021

Since 2019, some at-risk situations are only displayed every other year. To facilitate the availability of data, we still display the series below. Five graphs do not have data for 2021. Medical risks, hazardous materials transportation, and household waste incinerators are indefinitely removed but still displayed this year.

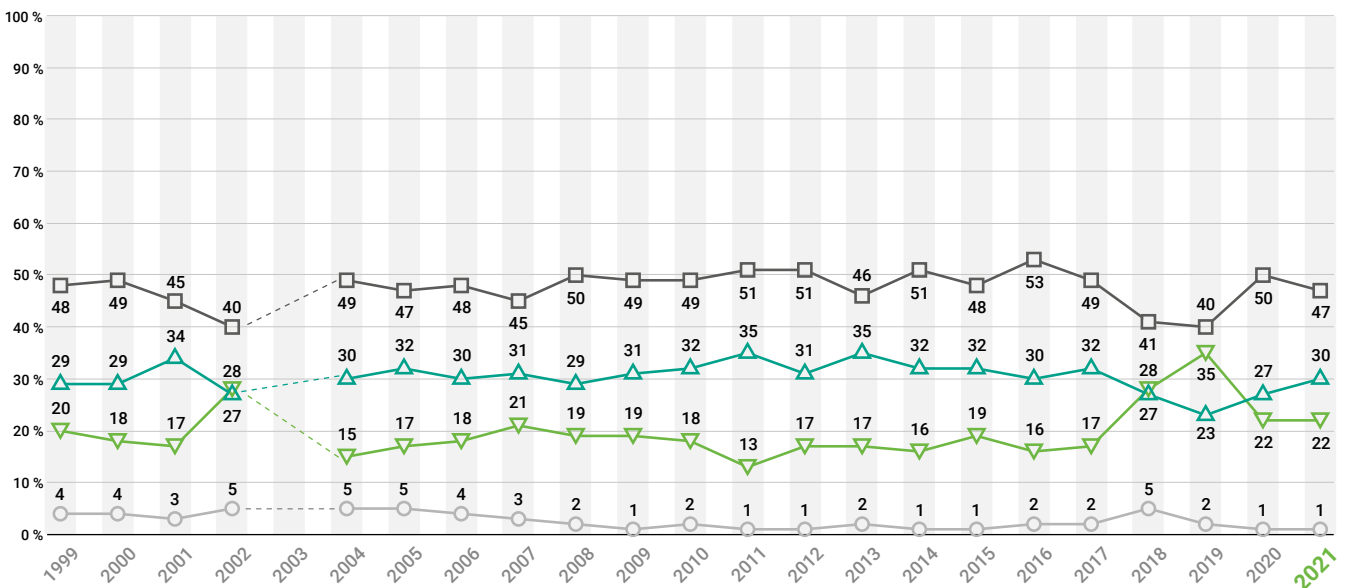
19 – Obesity*



* Until 2020, the title was "Child obesity"

© IRSN

20 – GMO's (Genetically Modified Organisms)*



* Until 2002, the title was "genetic manipulations"

© IRSN

The answers "Yes, definitely" and "Yes, somewhat" were grouped into "Yes"; "No, not really" and "No, not at all" answers into "No". Since 2019, "More or less" was replaced by "Neither trust nor doesn't trust".

▽ YES
 △ NEITHER TRUST NOR DOESN'T TRUST
 NO
 DON'T KNOW

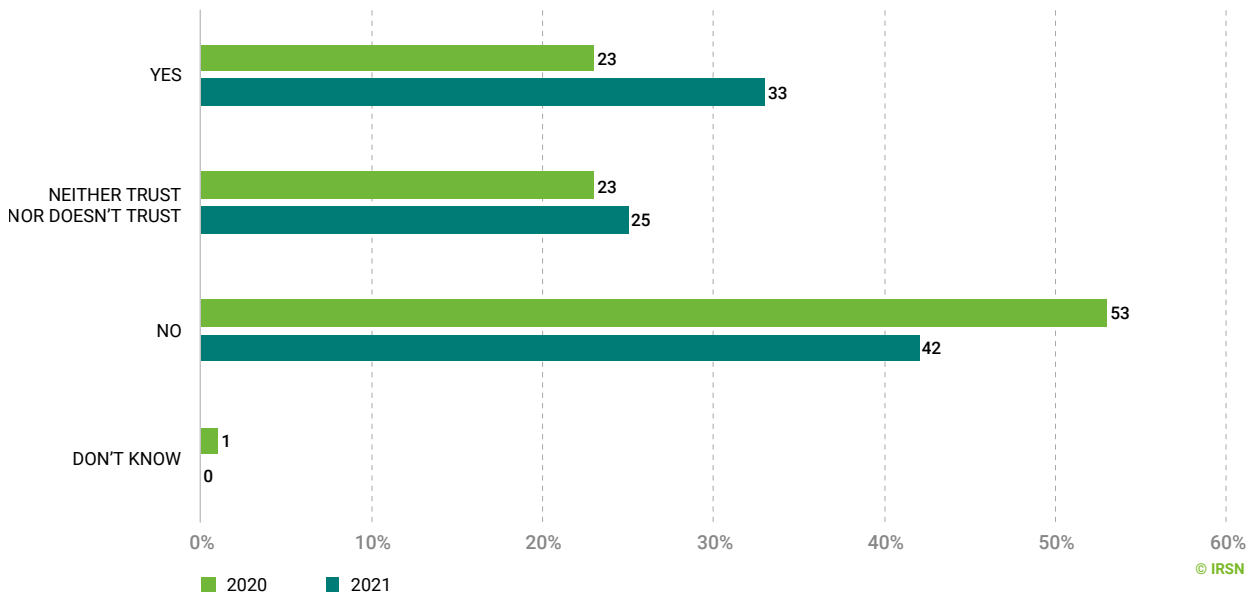
QUESTION N°4
(SERIES)

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

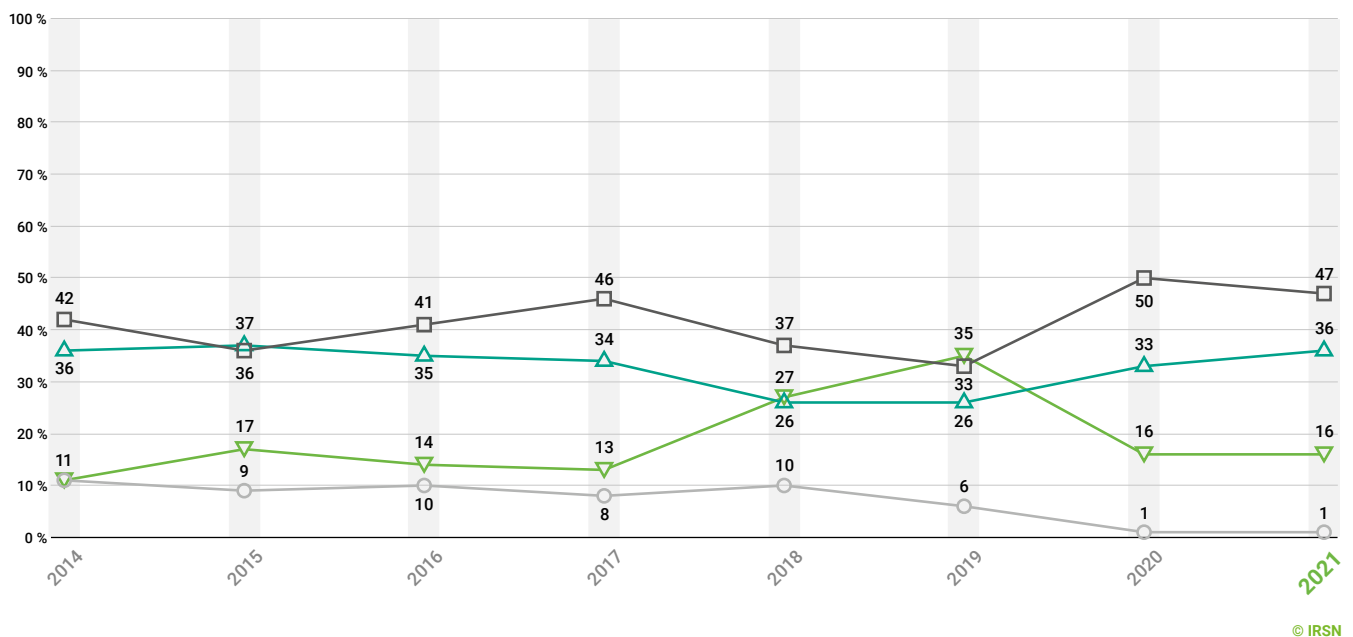
EVOLUTION OF THE RESULTS
2014-2021

Since 2019, some at-risk situations are only displayed every other year. To facilitate the availability of data, we still display the series below. Five graphs do not have data for 2021. Medical risks, hazardous materials transportation, and household waste incinerators are indefinitely removed but still displayed this year.

21 – Pandemics (global epidemics)



22 – Endocrine disruptors



The answers "Yes, definitely" and "Yes, somewhat" were grouped into "Yes"; "No, not really" and "No, not at all" answers into "No". Since 2019, "More or less" was replaced by "Neither trust nor doesn't trust".

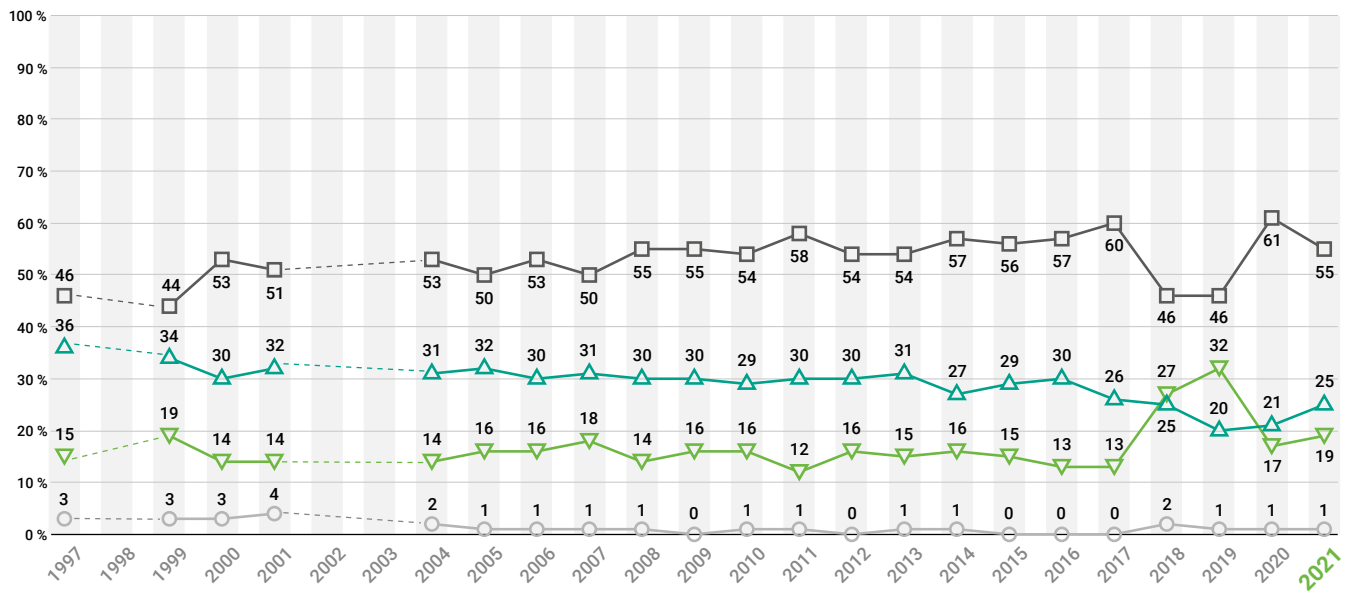
▽ YES
 △ NEITHER TRUST NOR DOESN'T TRUST
 □ NO
 ○ DON'T KNOW

QUESTION N°4 : Do you trust the French authorities to protect people
(SERIES) : against the following risks?

EVOLUTION OF THE RESULTS
1997-2021

Since 2019, some at-risk situations are only displayed every other year. To facilitate the availability of data, we still display the series below. Five graphs do not have data for 2021. Medical risks, hazardous materials transportation, and household waste incinerators are indefinitely removed but still displayed this year.

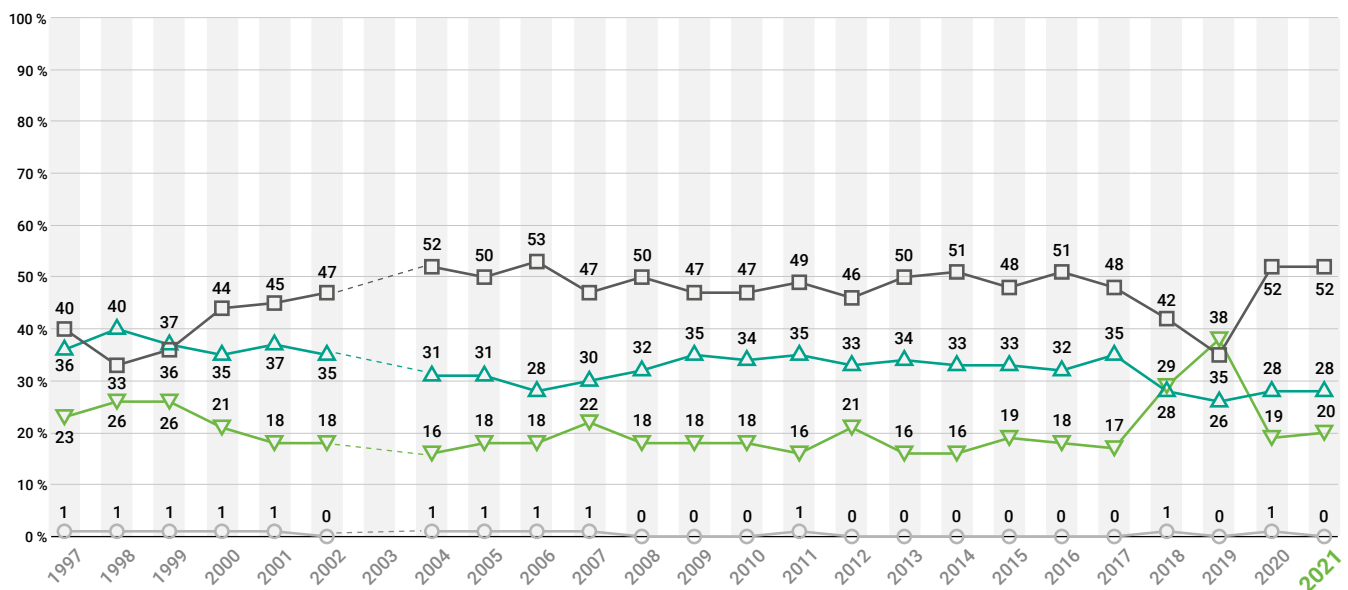
23 – Pesticides*



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

© IRSN

24 – Air pollution*



* The title was "Atmospheric pollution" until 2018.

© IRSN

The answers "Yes, definitely" and "Yes, somewhat" were grouped into "Yes"; "No, not really" and "No, not at all" answers into "No". Since 2019, "More or less" was replaced by "Neither trust nor doesn't trust".

▽ YES ▲ NEITHER TRUST NOR DOESN'T TRUST □ NO ○ DON'T KNOW

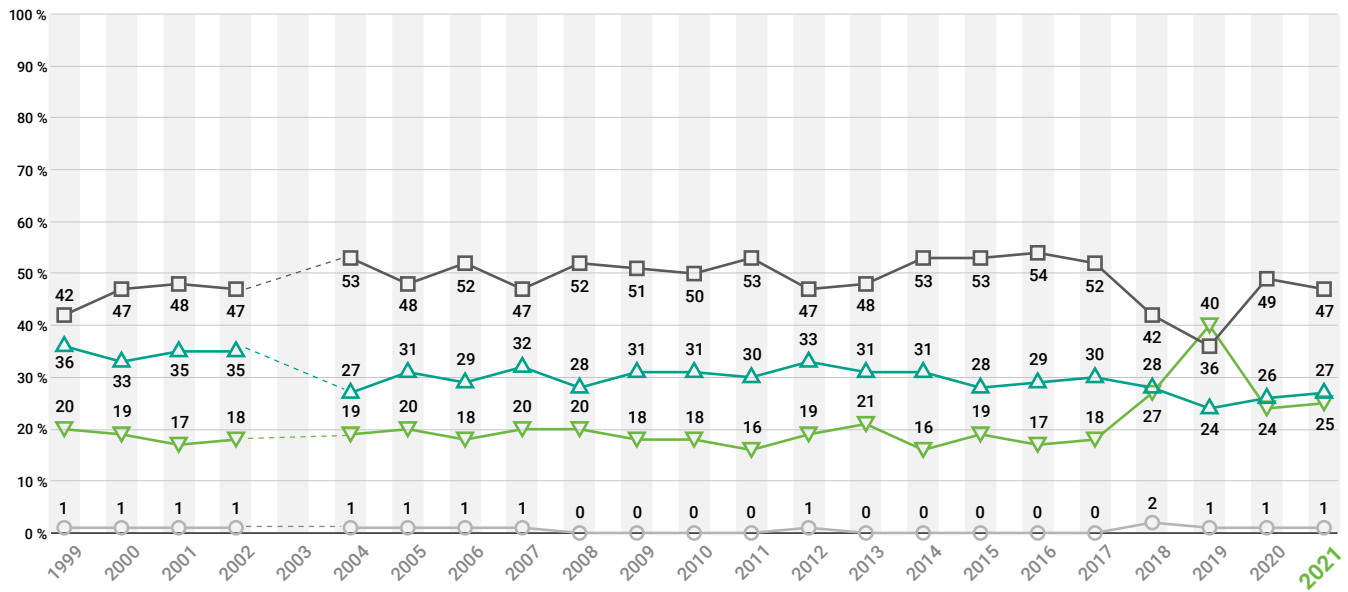
QUESTION N°4
(SERIES)

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

EVOLUTION OF THE RESULTS
1999-2021

Since 2019, some at-risk situations are only displayed every other year. To facilitate the availability of data, we still display the series below. Five graphs do not have data for 2021. Medical risks, hazardous materials transportation, and household waste incinerators are indefinitely removed but still displayed this year.

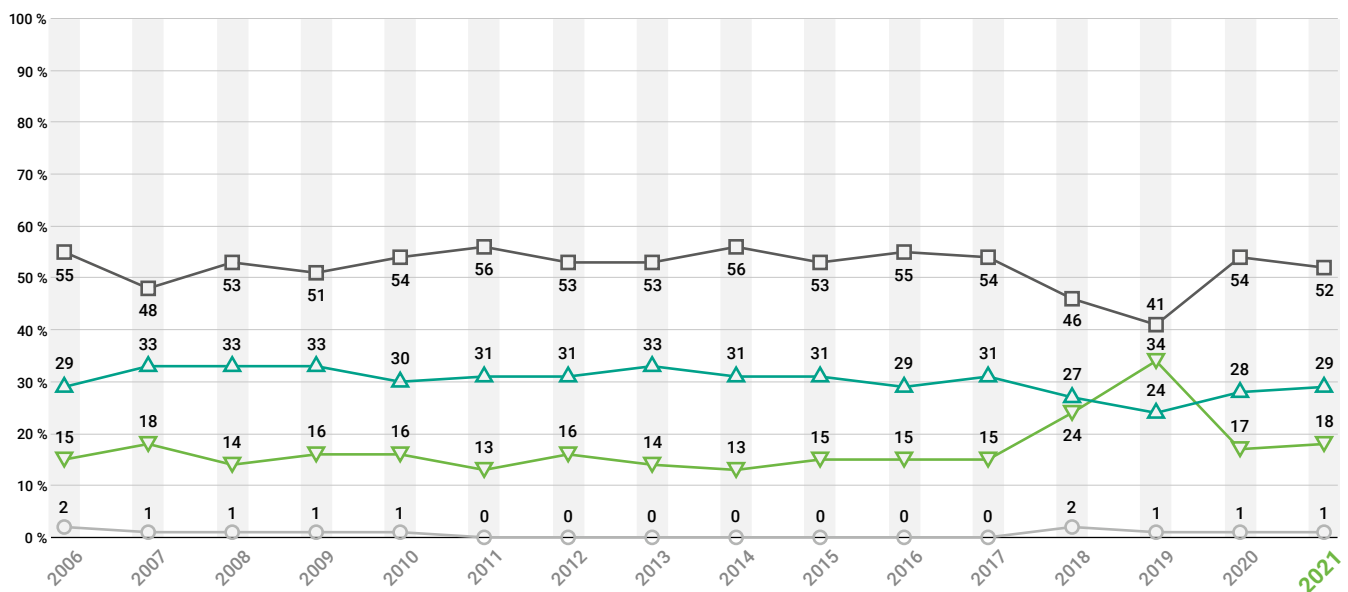
25 – Water pollution*



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

© IRSN

26 – Soil pollution



© IRSN

The answers "Yes, definitely" and "Yes, somewhat" were grouped into "Yes"; "No, not really" and "No, not at all" answers into "No". Since 2019, "More or less" was replaced by "Neither trust nor doesn't trust".

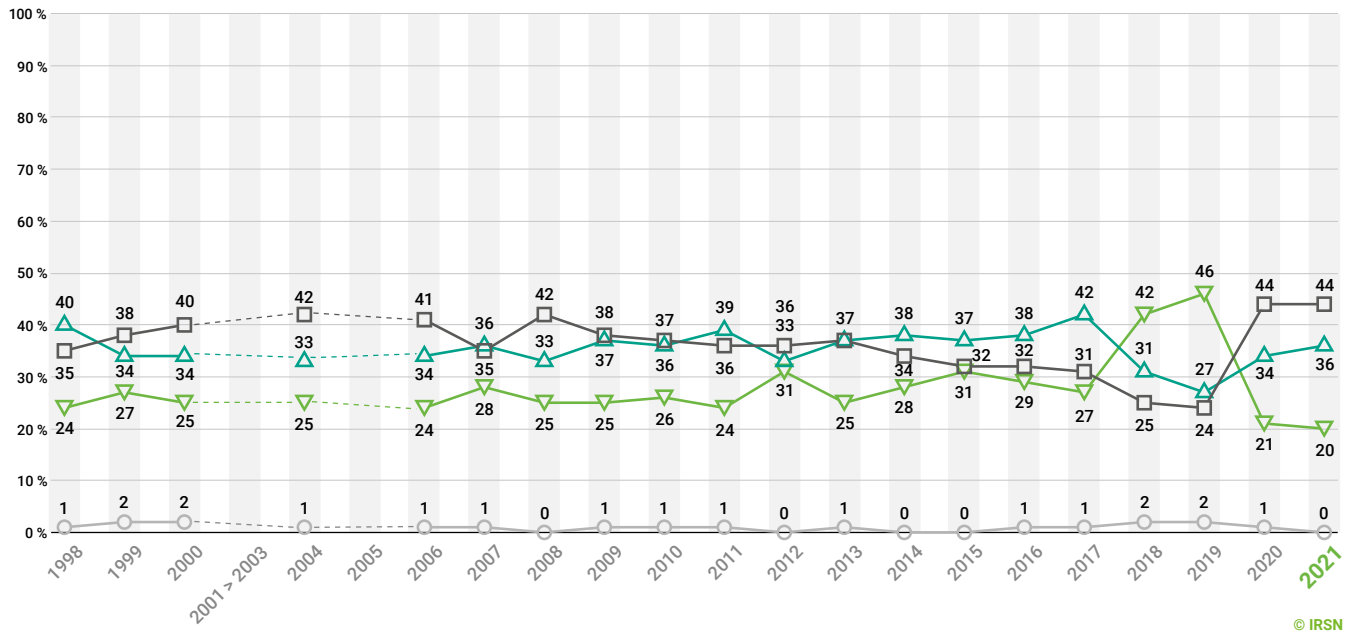
▽ YES
 △ NEITHER TRUST NOR DOESN'T TRUST
 □ NO
 ○ DON'T KNOW

QUESTION N°4 : Do you trust the French authorities to protect people
(SERIES) : against the following risks?

EVOLUTION OF THE RESULTS
1998-2021

Since 2019, some at-risk situations are only displayed every other year. To facilitate the availability of data, we still display the series below. Five graphs do not have data for 2021. Medical risks, hazardous materials transportation, and household waste incinerators are indefinitely removed but still displayed this year.

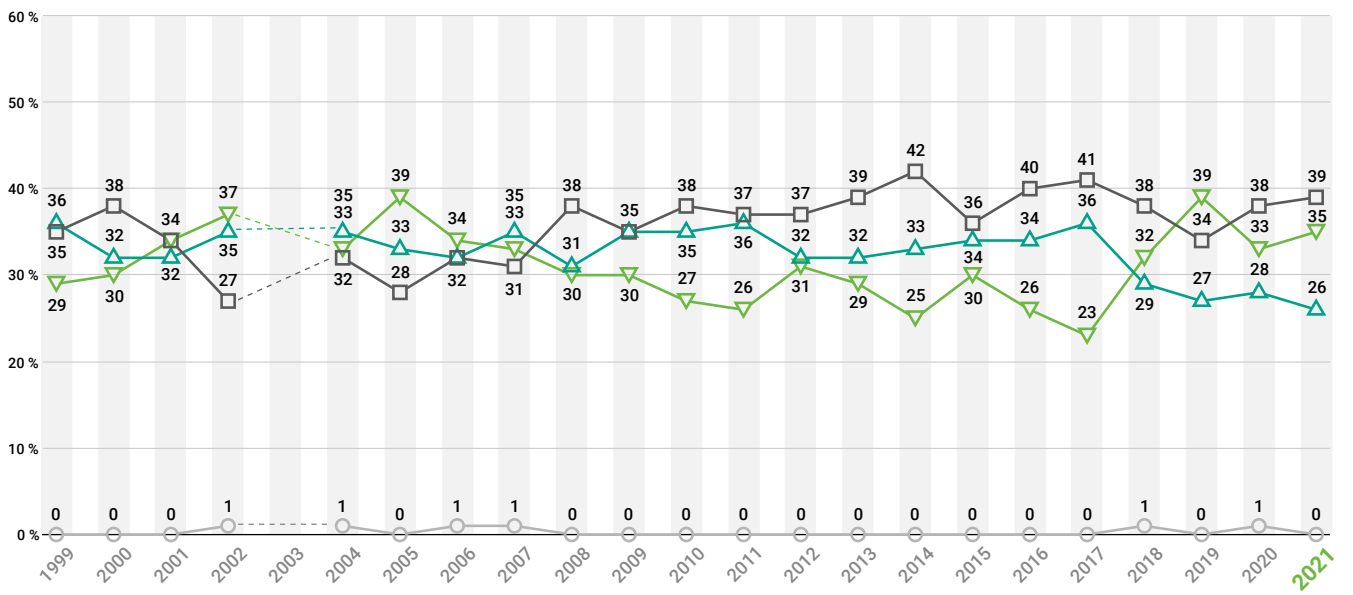
27 – Noise pollution*



* The title was "Noise" until 2018.

© IRSN

28 – Food products safety*



* The title was "Food products" until 2018.

© IRSN

The answers "Yes, definitely" and "Yes, somewhat" were grouped into "Yes"; "No, not really" and "No, not at all" answers into "No". Since 2019, "More or less" was replaced by "Neither trust nor doesn't trust".

▽ YES
 △ NEITHER TRUST NOR DOESN'T TRUST
 NO
 DON'T KNOW

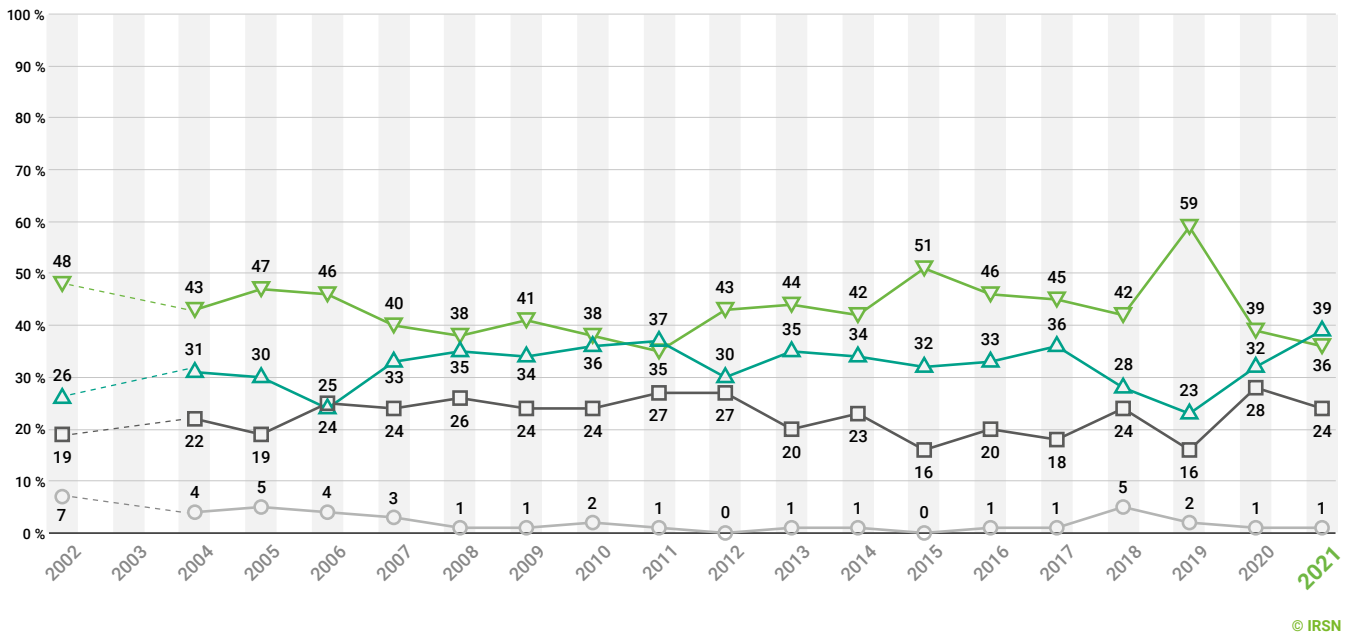
QUESTION N°4
(SERIES)

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

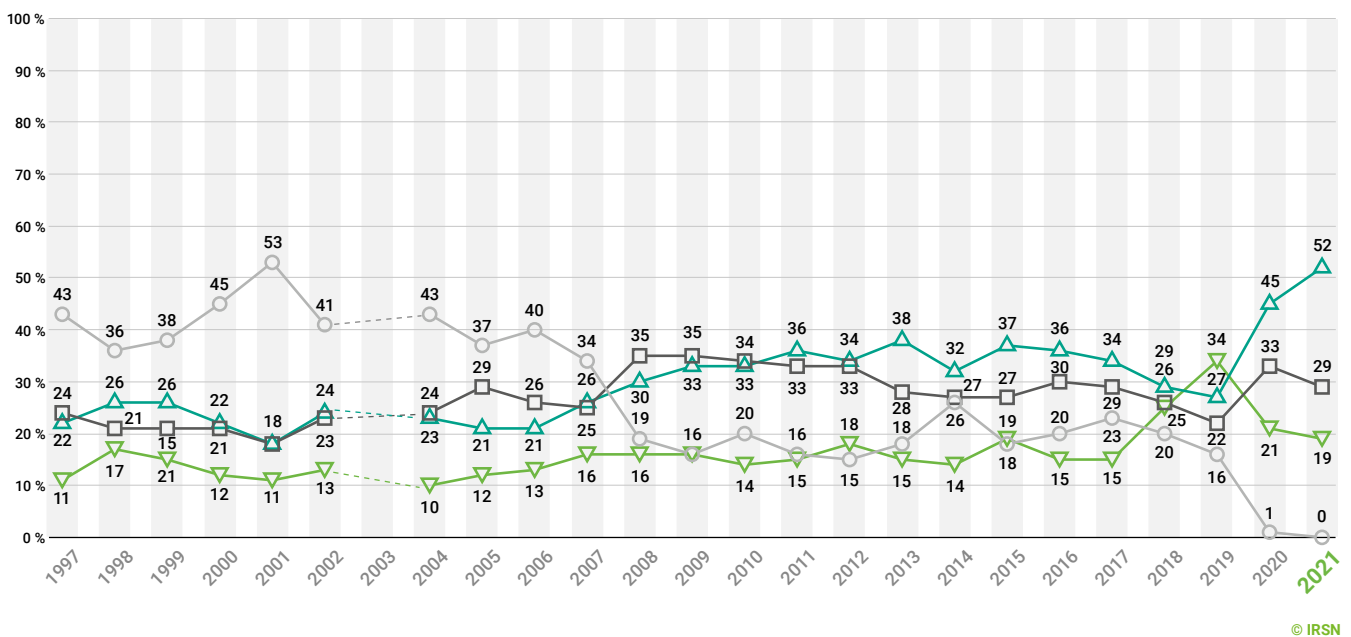
EVOLUTION OF THE RESULTS
1997-2021

Since 2019, some at-risk situations are only displayed every other year. To facilitate the availability of data, we still display the series below. Five graphs do not have data for 2021. Medical risks, hazardous materials transportation, and household waste incinerators are indefinitely removed but still displayed this year.

29 – Medical radiographies



30 – Indoor Radon



The answers "Yes, definitely" and "Yes, somewhat" were grouped into "Yes"; "No, not really" and "No, not at all" answers into "No". Since 2019, "More or less" was replaced by "Neither trust nor doesn't trust".

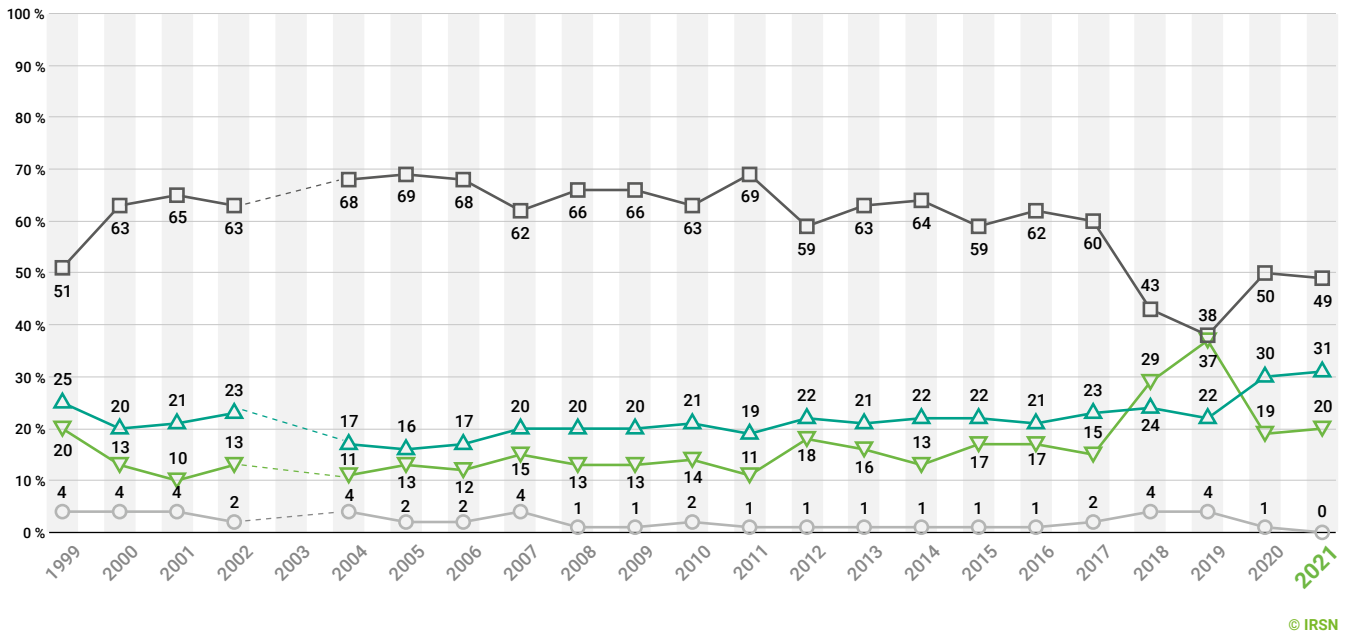
▲ YES
 ▲ NEITHER TRUST NOR DOESN'T TRUST
 ■ NO
 ○ DON'T KNOW

QUESTION N°4 : Do you trust the French authorities to protect people
(SERIES) : against the following risks?

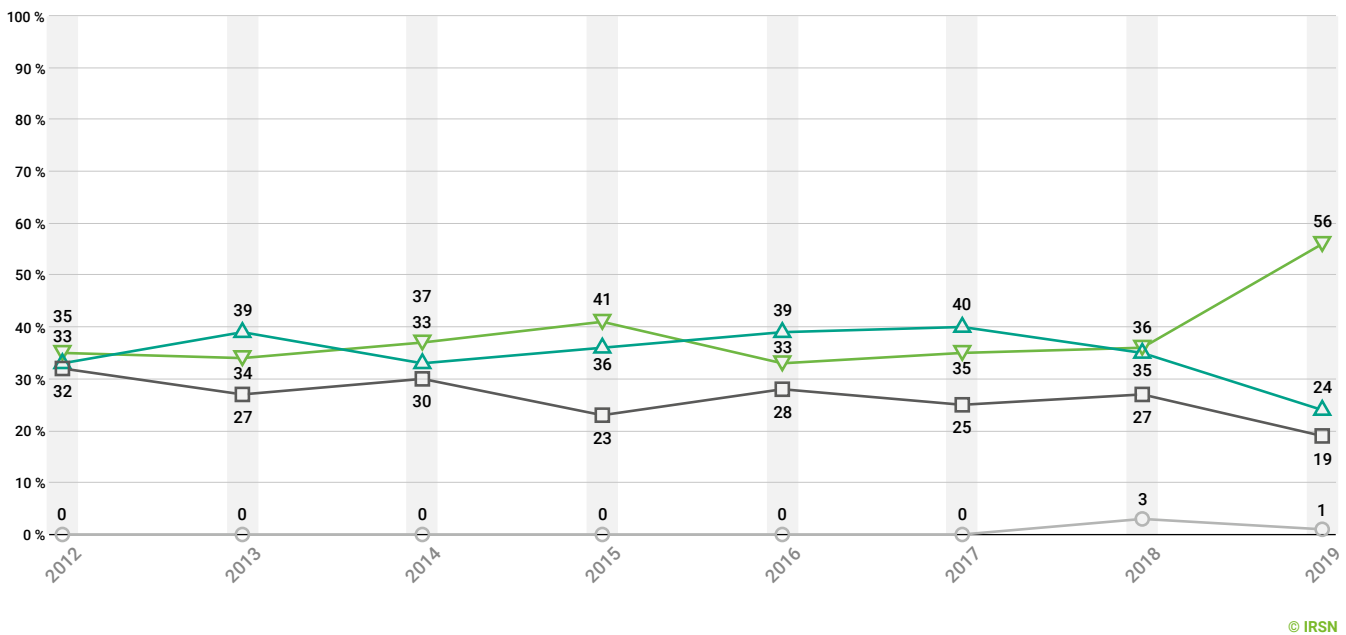
EVOLUTION OF THE RESULTS
1999-2021

Since 2019, some at-risk situations are only displayed every other year. To facilitate the availability of data, we still display the series below. Five graphs do not have data for 2021. Medical risks, hazardous materials transportation, and household waste incinerators are indefinitely removed but still displayed this year.

31 – Radioactive fallouts in France from the Chernobyl accident



32 – Medical risks



The answers "Yes, definitely" and "Yes, somewhat" were grouped into "Yes"; "No, not really" and "No, not at all" answers into "No". Since 2019, "More or less" was replaced by "Neither trust nor doesn't trust".

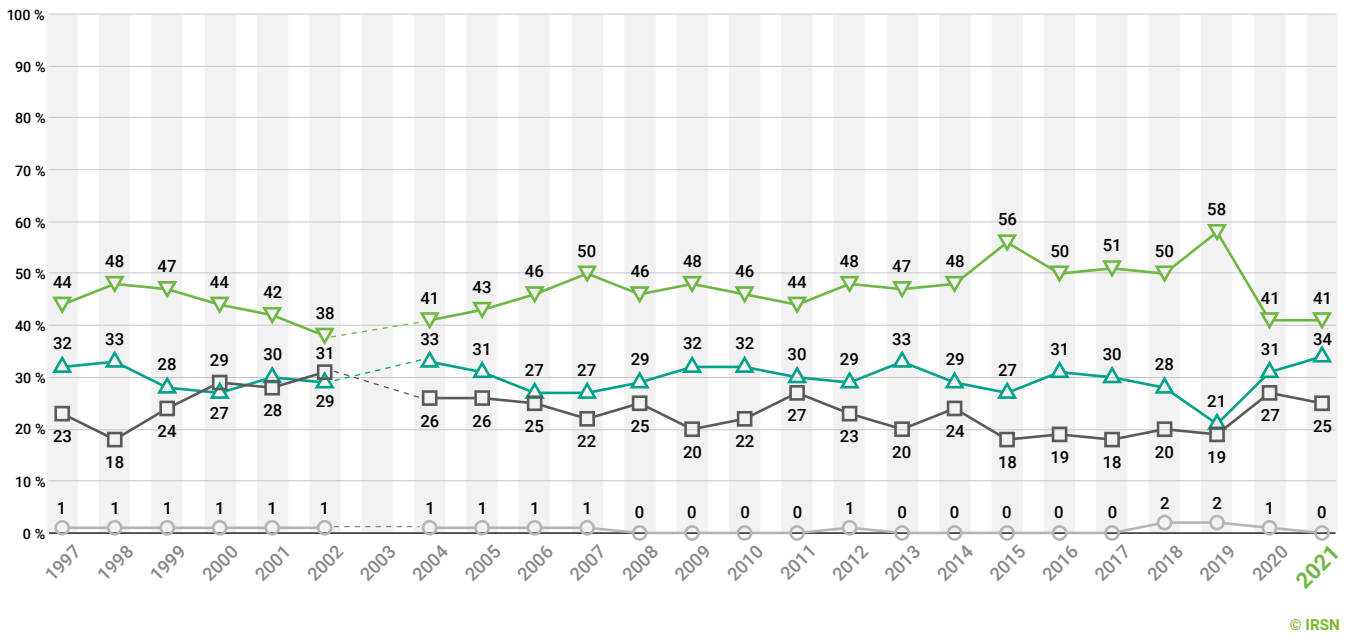
▽ YES ▲ NEITHER TRUST NOR DOESN'T TRUST □ NO ○ DON'T KNOW

QUESTION N°4 : Do you trust the French authorities to protect people
(SERIES) : against the following risks?

EVOLUTION OF THE RESULTS
1997-2021

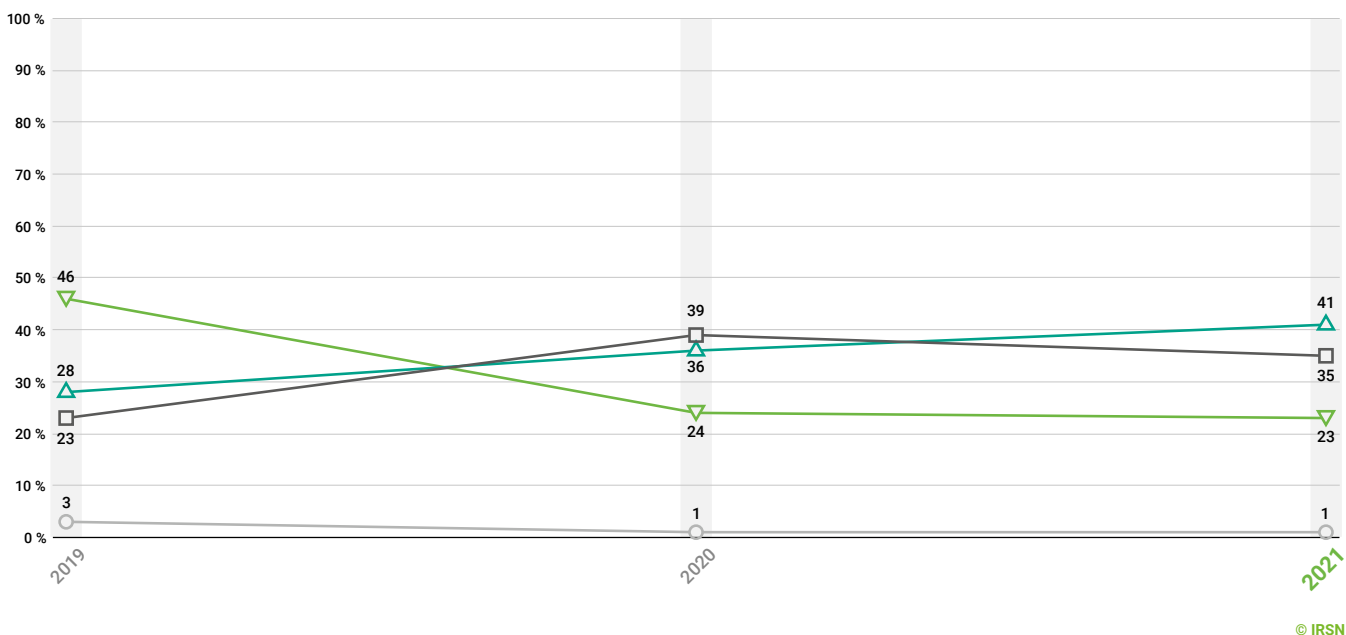
Since 2019, some at-risk situations are only displayed every other year. To facilitate the availability of data, we still display the series below. Five graphs do not have data for 2021. Medical risks, hazardous materials transportation, and household waste incinerators are indefinitely removed but still displayed this year.

33 – AIDS



© IRSN

34 – Marine flooding (temporary flooding caused by the sea)



© IRSN

The answers "Yes, definitely" and "Yes, somewhat" were grouped into "Yes"; "No, not really" and "No, not at all" answers into "No". Since 2019, "More or less" was replaced by "Neither trust nor doesn't trust".

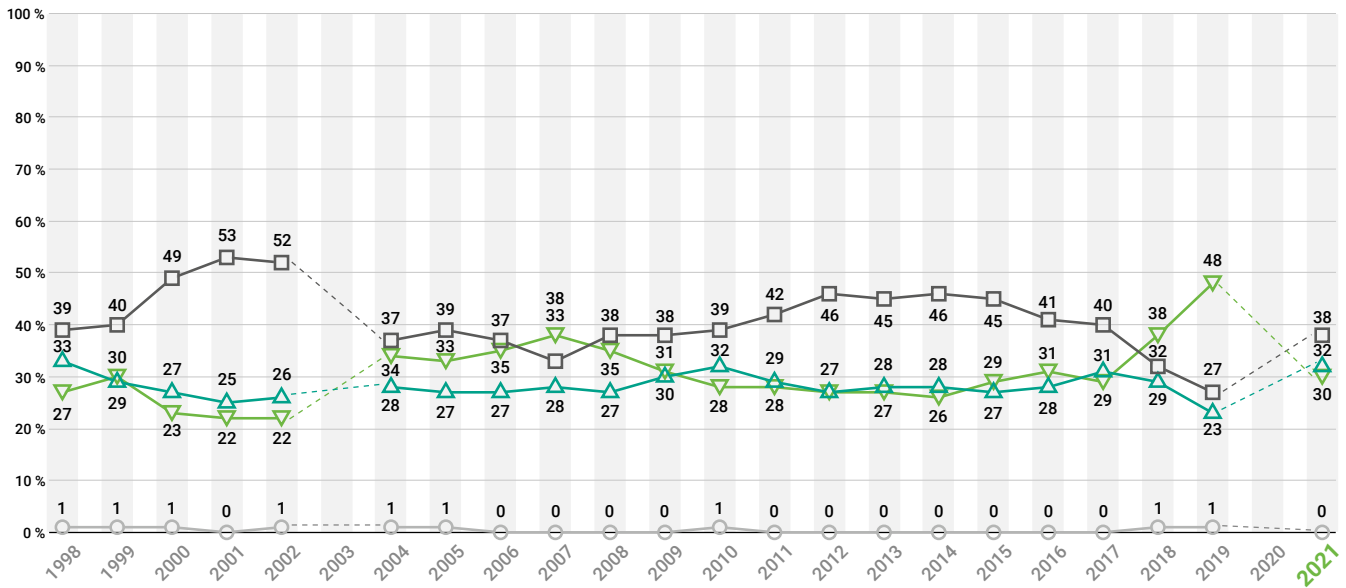
▽ YES
 △ NEITHER TRUST NOR DOESN'T TRUST
 □ NO
 ○ DON'T KNOW

QUESTION N°4 : Do you trust the French authorities to protect people
(SERIES) : against the following risks?

EVOLUTION OF THE RESULTS
1997-2021

Since 2019, some at-risk situations are only displayed every other year. To facilitate the availability of data, we still display the series below. Five graphs do not have data for 2021. Medical risks, hazardous materials transportation, and household waste incinerators are indefinitely removed but still displayed this year.

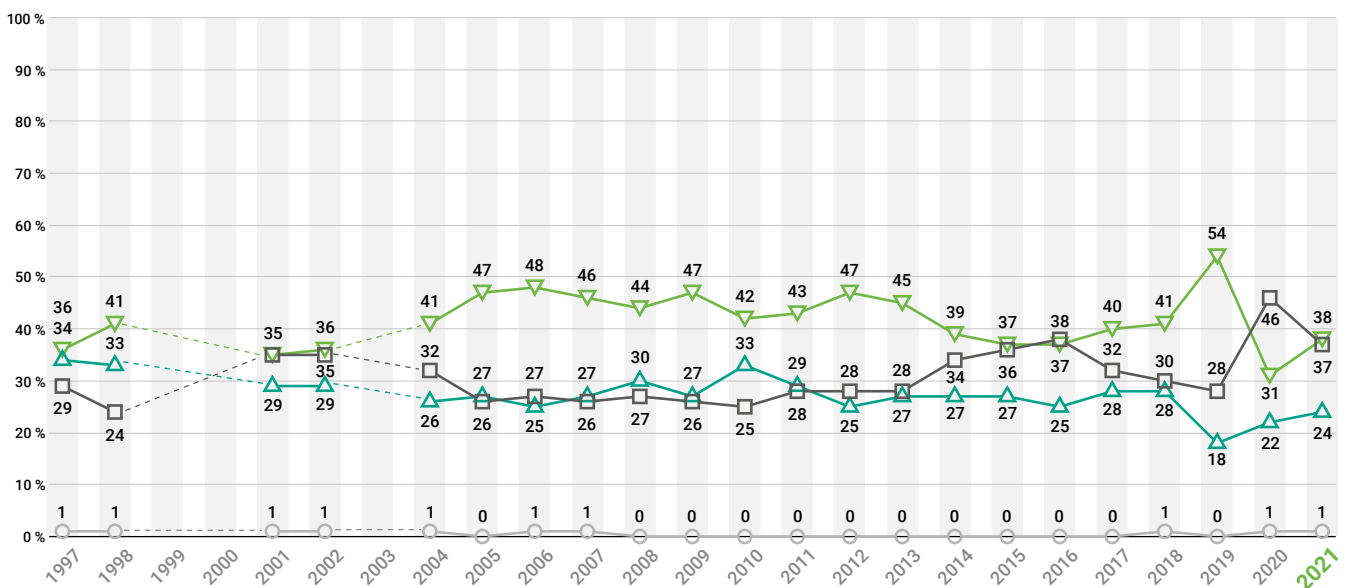
35 – Tobacco*



* The title was "Teenage smoking" until 2018.

© IRSN

36 – Terrorism



© IRSN

The answers "Yes, definitely" and "Yes, somewhat" were grouped into "Yes"; "No, not really" and "No, not at all" answers into "No". Since 2019, "More or less" was replaced by "Neither trust nor doesn't trust".

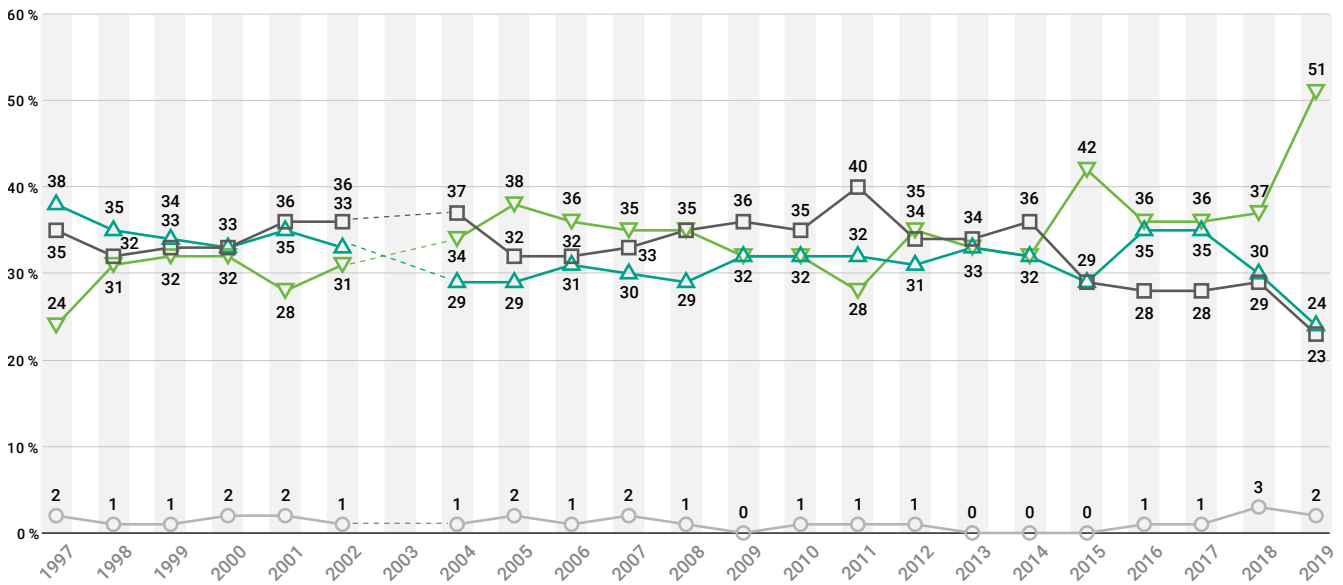
▲ YES
 ▲ NEITHER TRUST NOR DOESN'T TRUST
 NO
 DON'T KNOW

QUESTION N°4 : Do you trust the French authorities to protect people
(SERIES) : against the following risks?

EVOLUTION OF THE RESULTS
1997-2021

Since 2019, some at-risk situations are only displayed every other year. To facilitate the availability of data, we still display the series below. Five graphs do not have data for 2021. Medical risks, hazardous materials transportation, and household waste incinerators are indefinitely removed but still displayed this year.

37 – Hazardous materials transportations



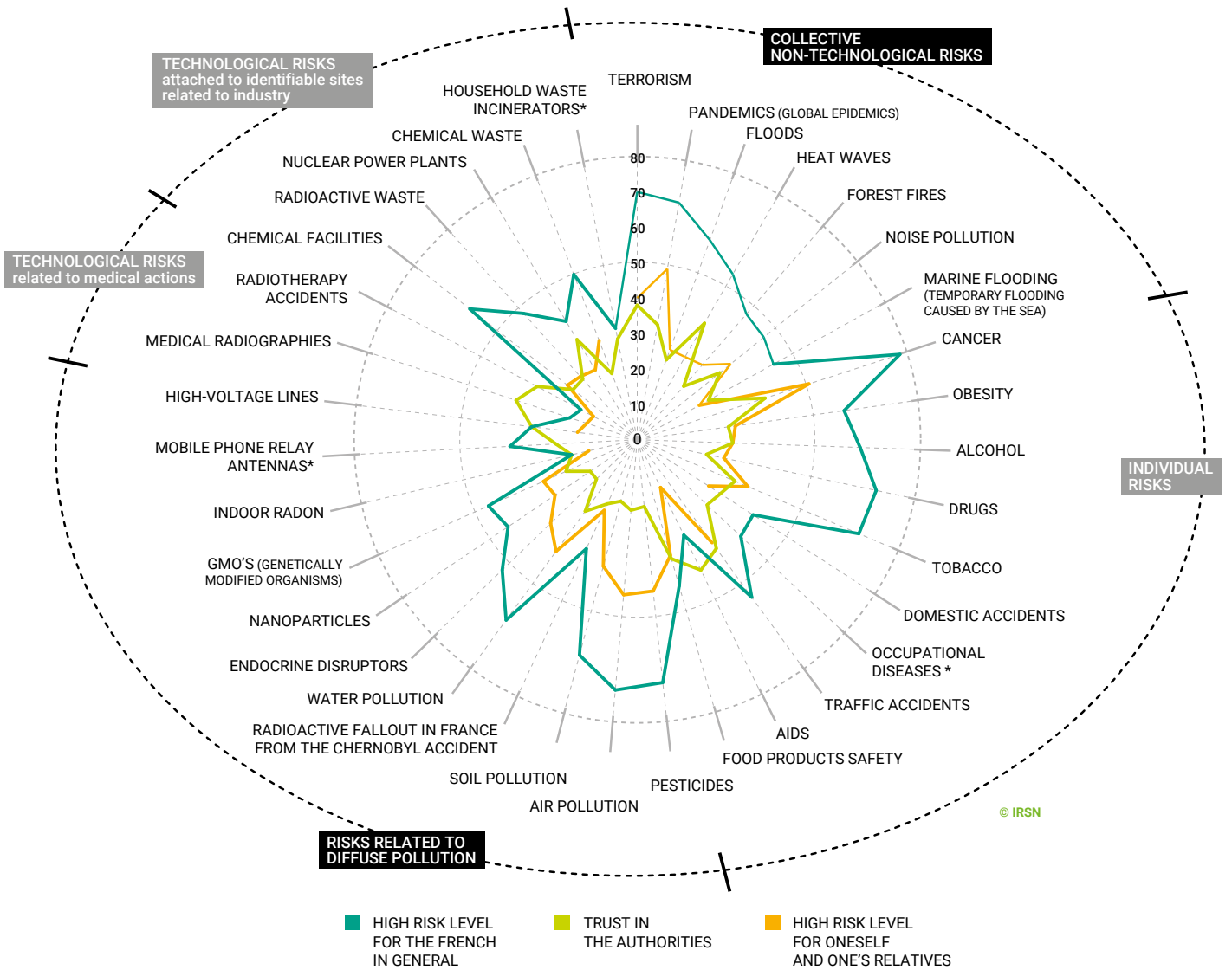
© IRSN

The answers "Yes, definitely" and "Yes, somewhat" were grouped into "Yes"; "No, not really" and "No, not at all" answers into "No". Since 2019, "More or less" was replaced by "Neither trust nor doesn't trust".

▲ YES
 ▲ NEITHER TRUST NOR DOESN'T TRUST
 NO
 DON'T KNOW

Representation of the 35 risk situations according to the 3 dimensions: high risk level for the French in general, for oneself and one's relatives and trust in the authorities.

NOVEMBER 2021



* For this variable, the latest data are from 2020, there is no data in the column "risk for oneself and one's relatives" because it was created in 2021.

QUESTION N°5

.....: Would you be willing
: to live near...?

NOVEMBER 2021

A MOBILE PHONE RELAY ANTENNA



A WIND FARM



HIGH-VOLTAGE POWER LINES



A NUCLEAR RESEARCH CENTER



A NUCLEAR POWER PLANT



A SEISMIC ZONE



AN AIRPORT



A FLOOD ZONE



A HOUSEHOLD WASTE INCINERATOR



A MAJOR CHEMICAL FACILITY



A RADIOACTIVE WASTE DISPOSAL



A MARINE FLOODING ZONE (TEMPORARY FLOODING CAUSED BY THE SEA)



A LANDFILL



A CHEMICAL WASTE DISPOSAL

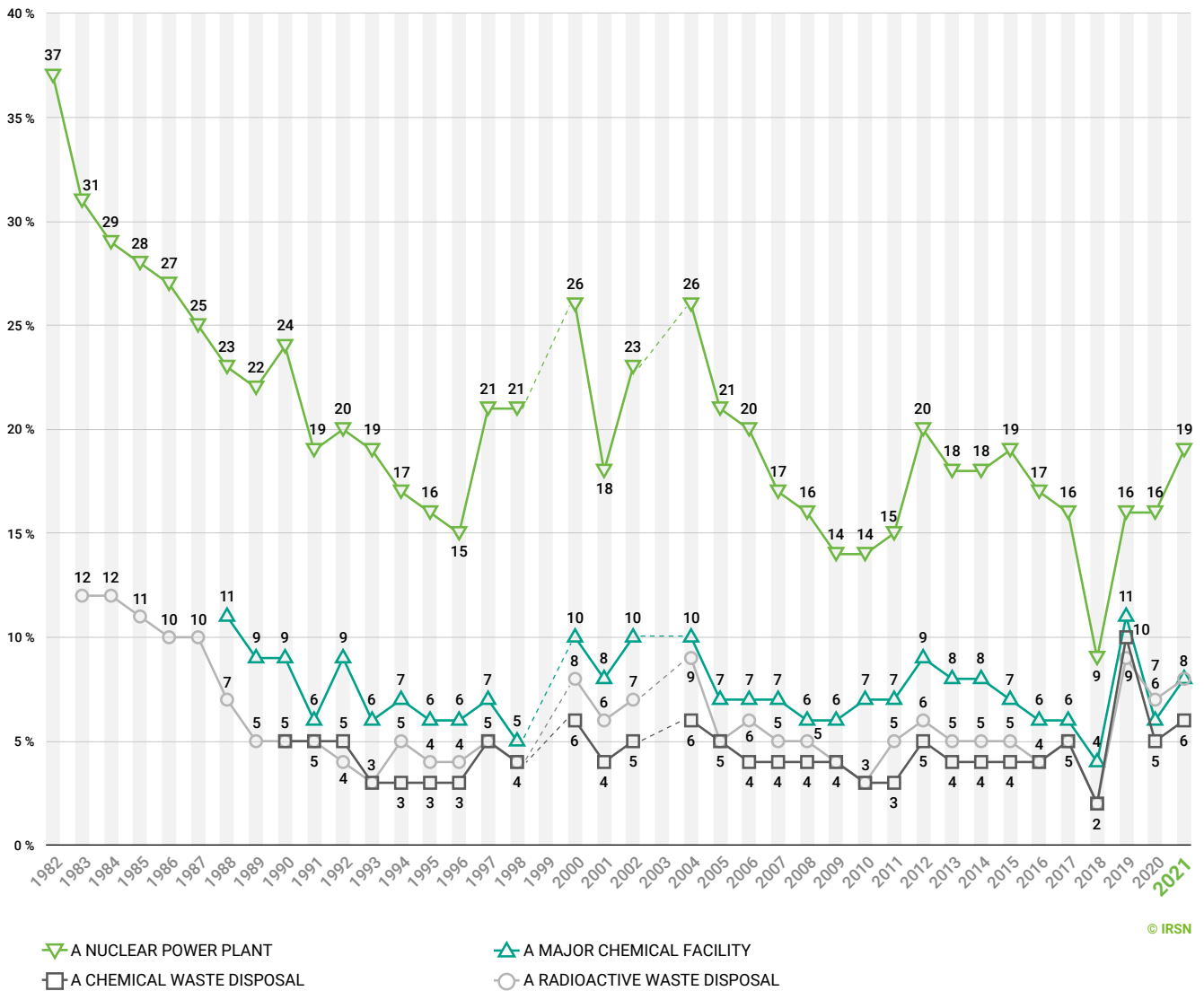


■ YES ■ NO ■ DON'T KNOW

© IRSN

QUESTION N°5: Would you be willing
 (SERIES) : to live near...?

EVOLUTION OF THE "YES" ANSWERS
 1982 - 2021

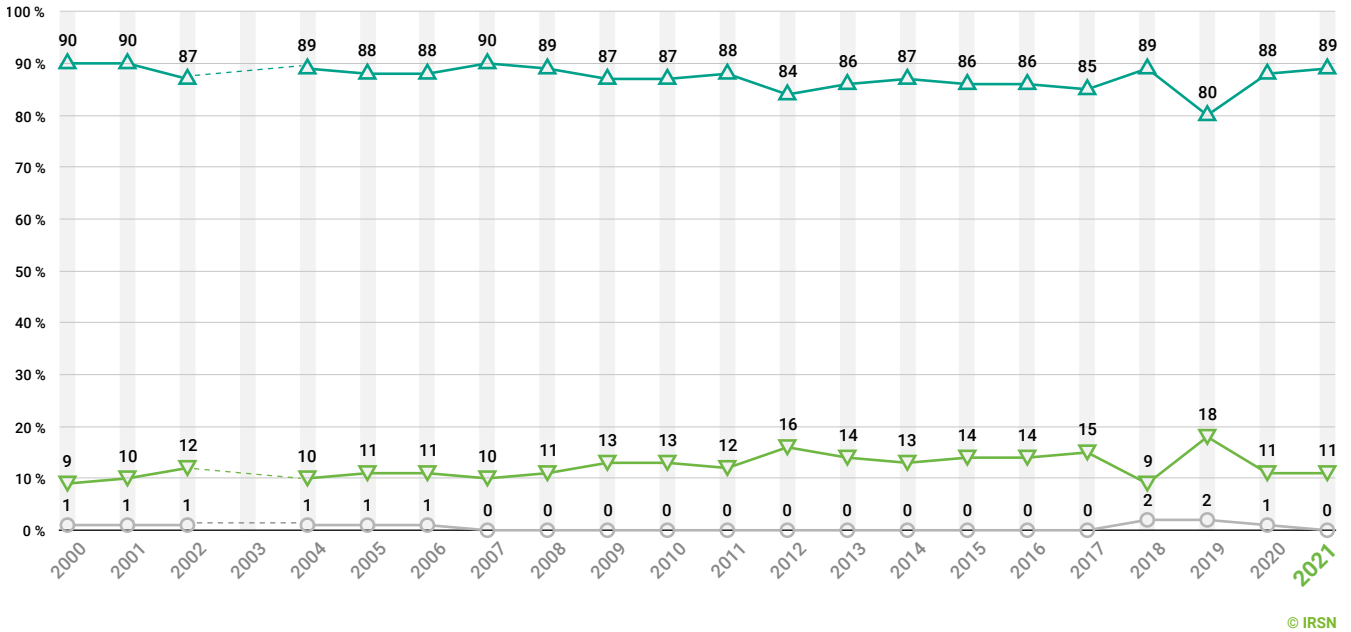


© IRSN

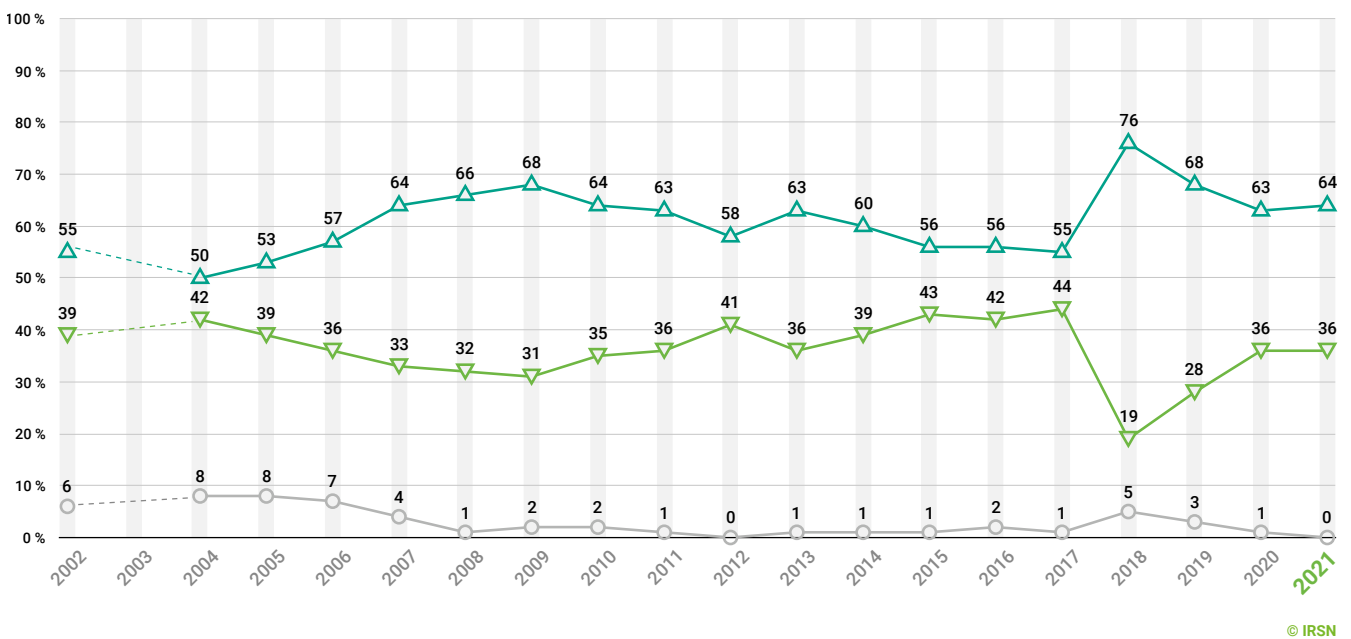
QUESTION N°5 : Would you be willing
(SERIES) : to live near...?

EVOLUTION OF THE RESULTS
2000 - 2021

1 - An airport



2 - A mobile phone relay antenna

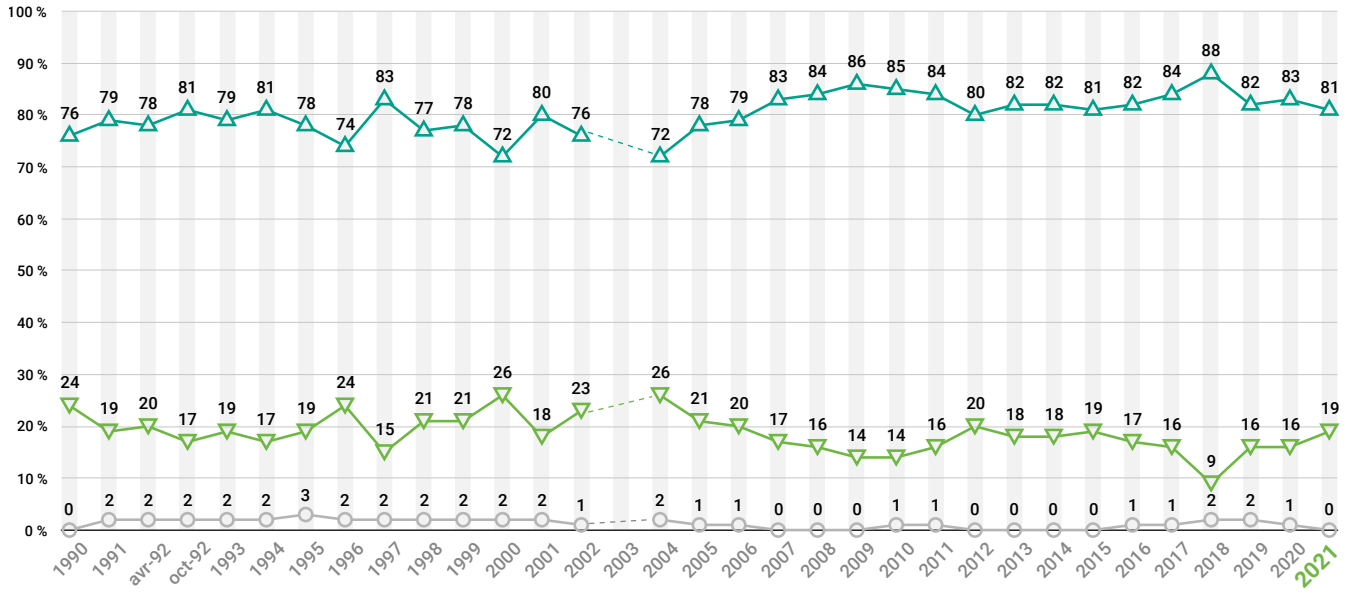


▽ YES ▲ NO ○ DON'T KNOW

QUESTION N°5: Would you be willing
(SERIES) : to live near...?

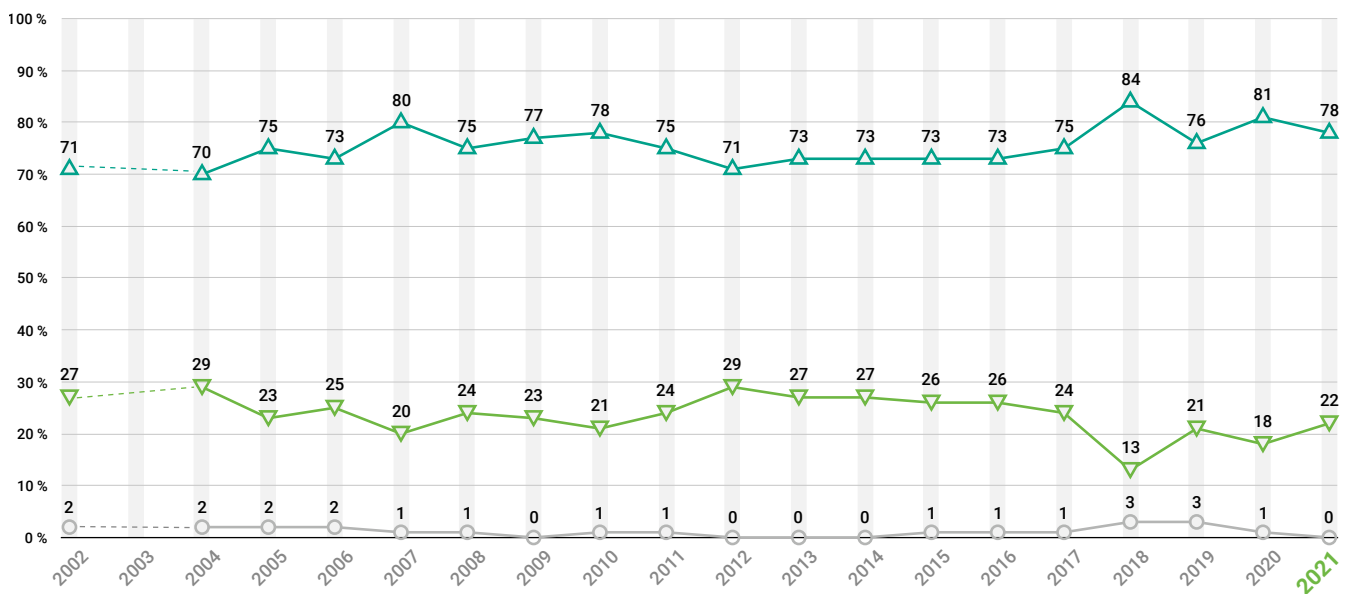
EVOLUTION OF THE RESULTS
1990 - 2021

3 – A nuclear power plant



© IRSN

4 – A nuclear research center



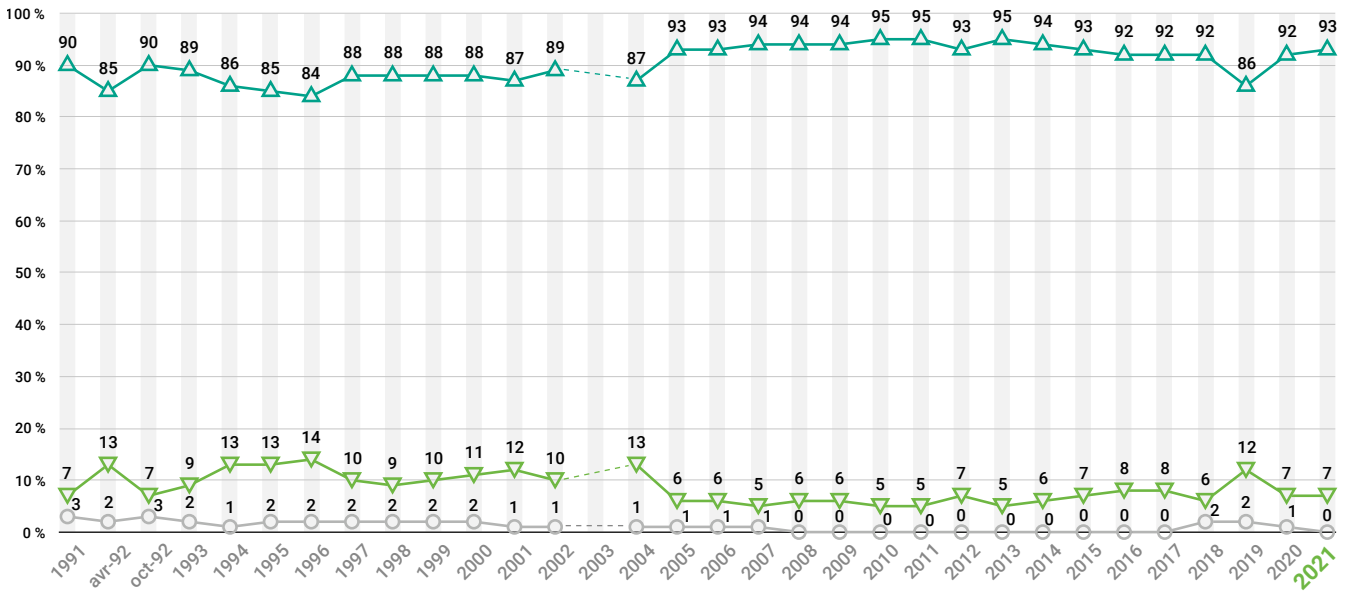
© IRSN

▽ YES ▲ NO ○ DON'T KNOW

QUESTION N°5: Would you be willing
(SERIES) : to live near...?

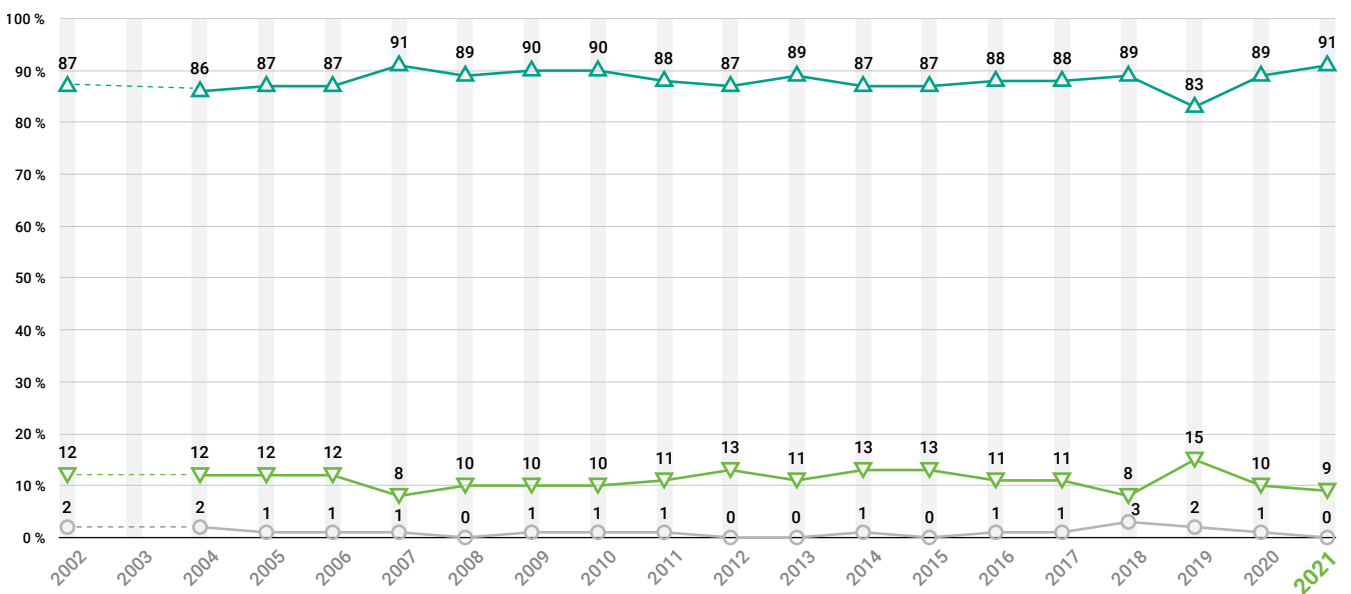
EVOLUTION OF THE RESULTS
1991 - 2021

5 – A landfill



© IRSN

6 – A household waste incinerator



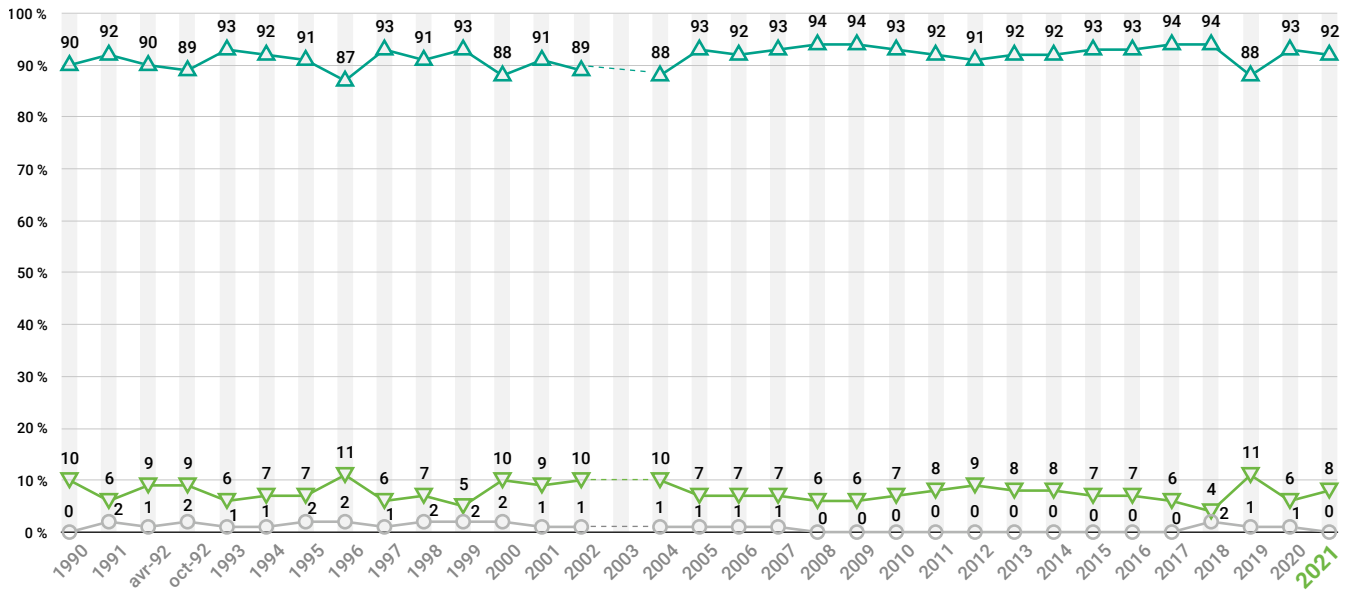
© IRSN

▽ YES ▲ NO ○ DON'T KNOW

QUESTION N°5 : Would you be willing
 (SERIES) : to live near...?

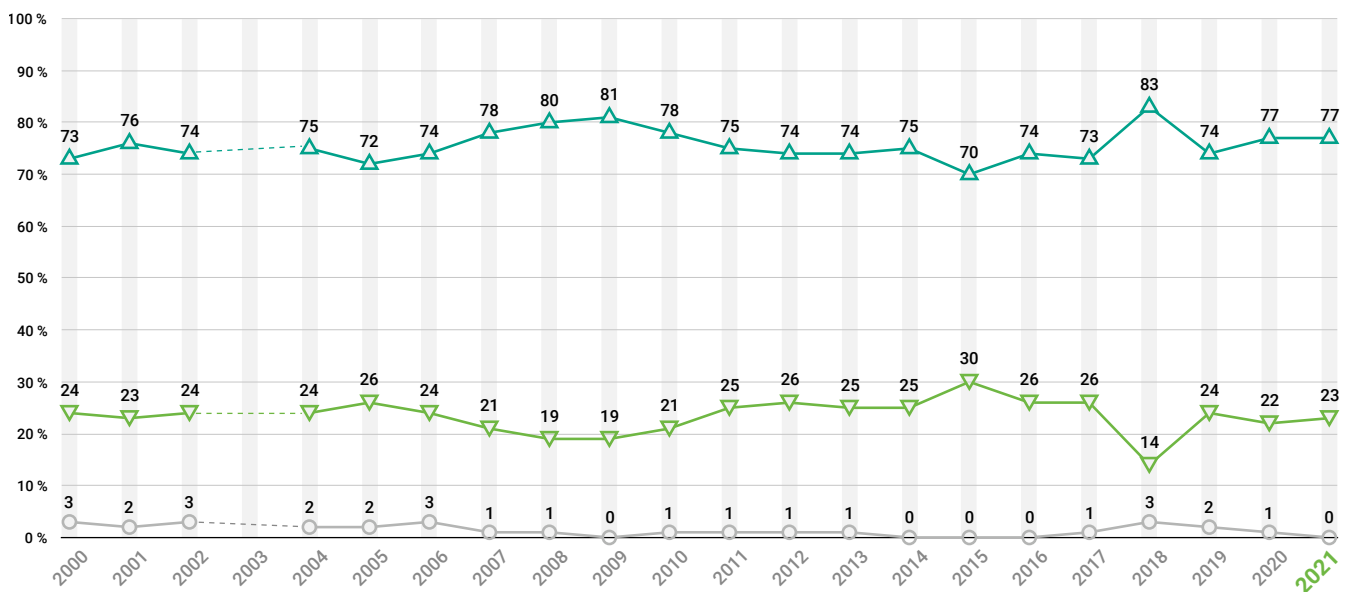
EVOLUTION OF THE RESULTS
 1990 - 2021

7 - A major chemical facility



© IRSN

8 - High-voltage power lines



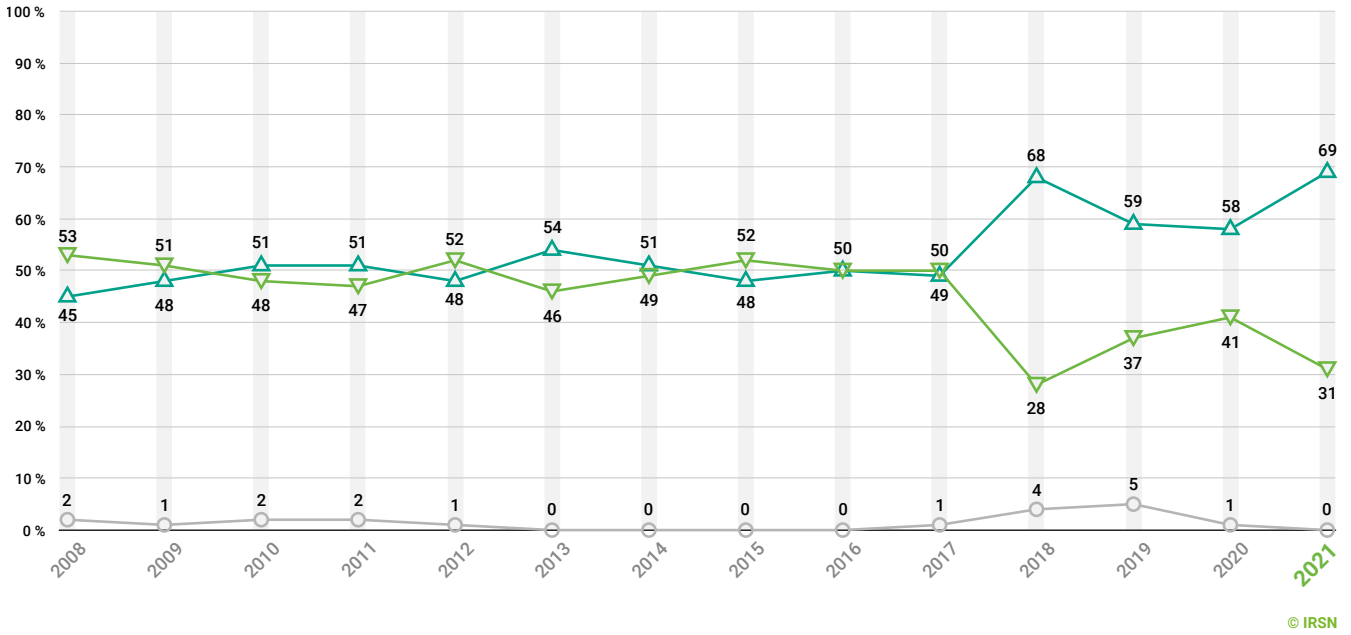
© IRSN

▽ YES ▲ NO ○ DON'T KNOW

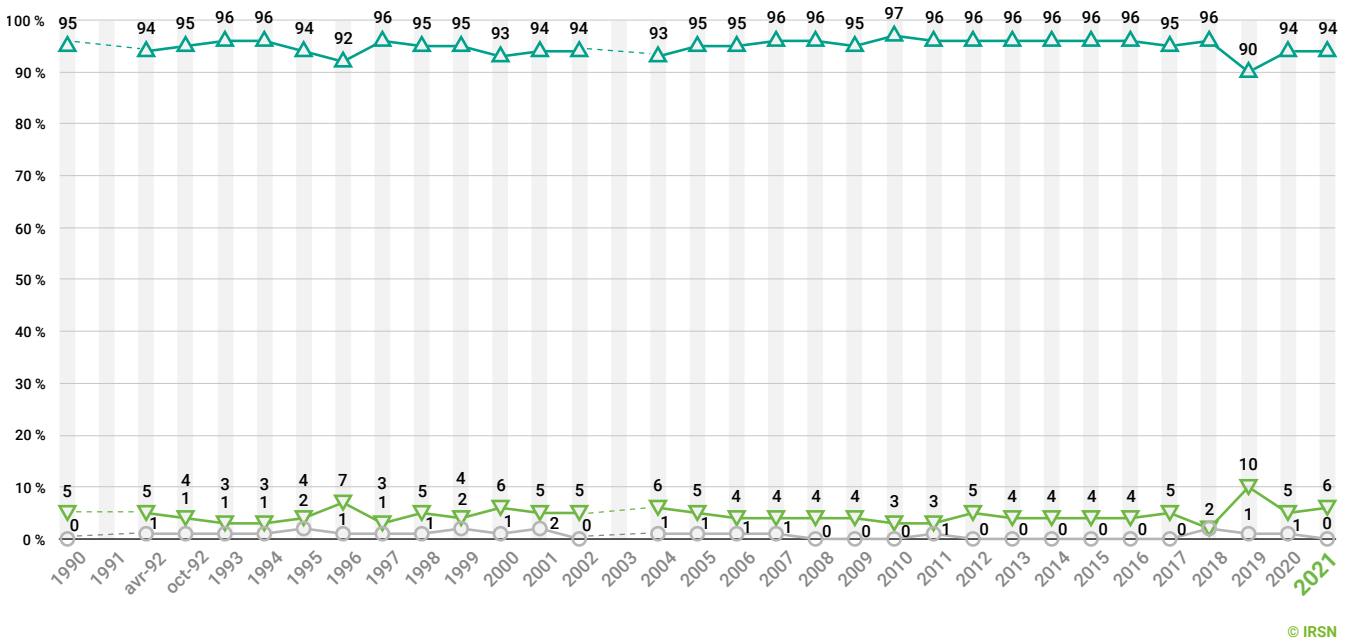
QUESTION N°5 : Would you be willing
(SERIES) : to live near...?

EVOLUTION OF THE RESULTS
1990 - 2021

9 – A wind farm



10 – A chemical waste disposal

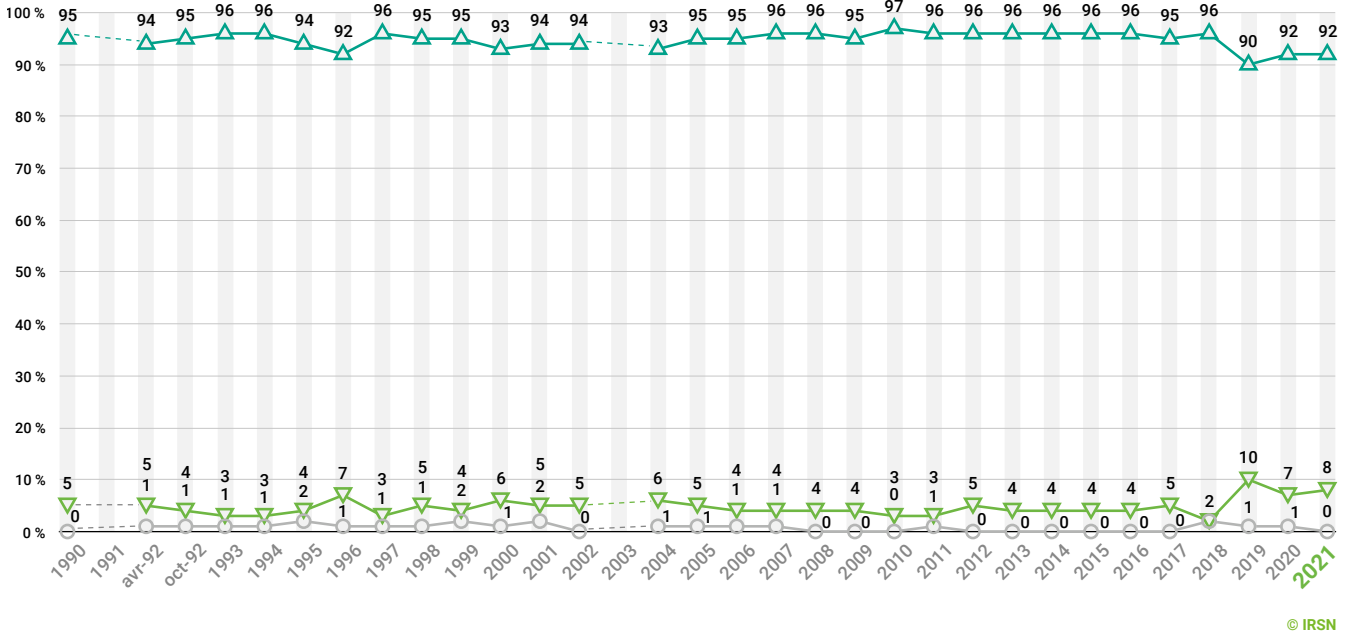


▽ YES ▲ NO ○ DON'T KNOW

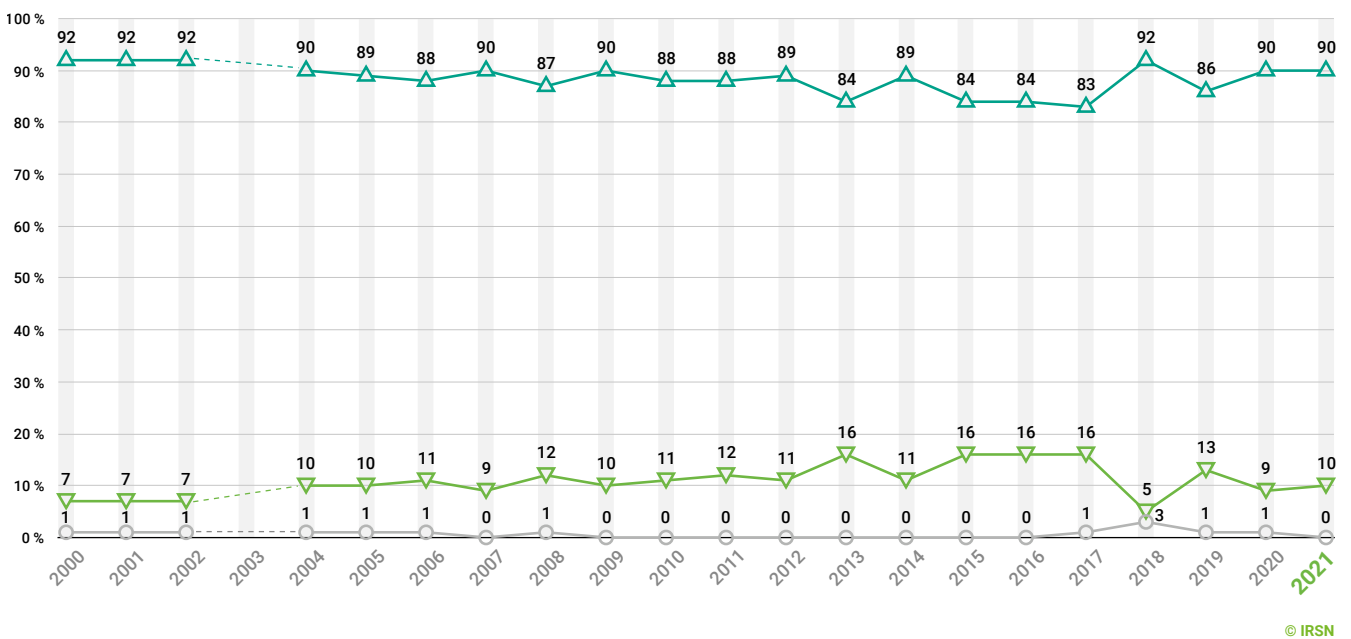
QUESTION N°5: Would you be willing
(SERIES) : to live near...?

EVOLUTION OF THE RESULTS
1990 - 2021

11 – A radioactive waste disposal



12 – A flood zone

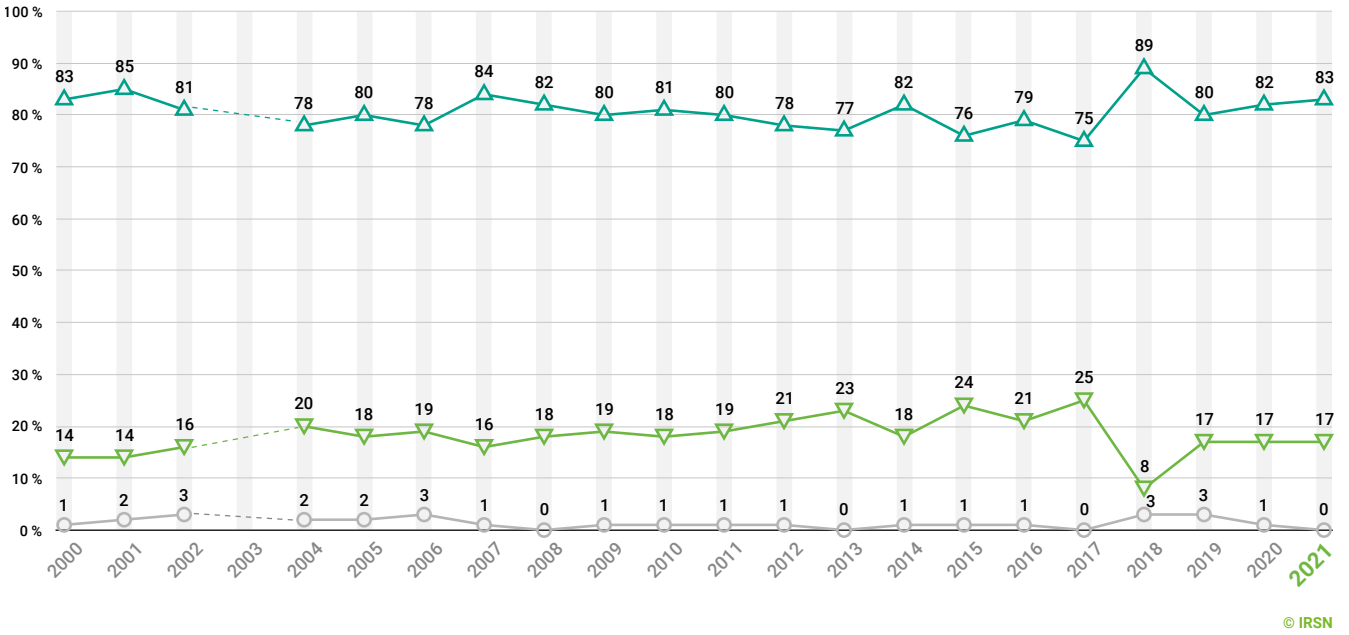


▽ YES ▲ NO ○ DON'T KNOW

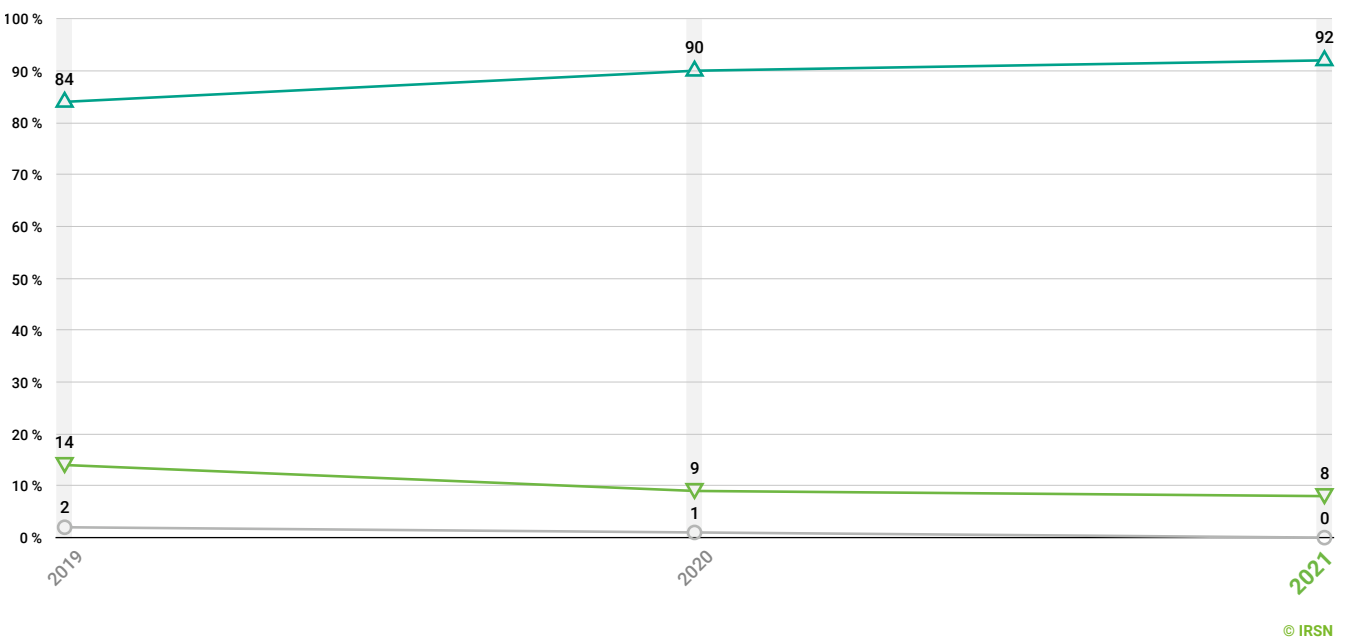
QUESTION N°5 : Would you be willing
(SERIES) : to live near...?

EVOLUTION OF THE RESULTS
2000 - 2021

13 – A seismic zone



14 – A marine flooding zone (temporary flooding caused by the sea)



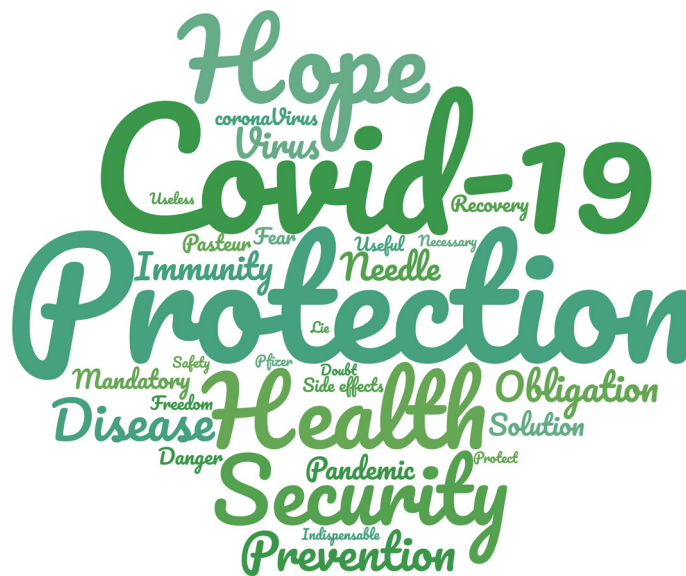
▽ YES ▲ NO ○ DON'T KNOW

QUESTION N°6

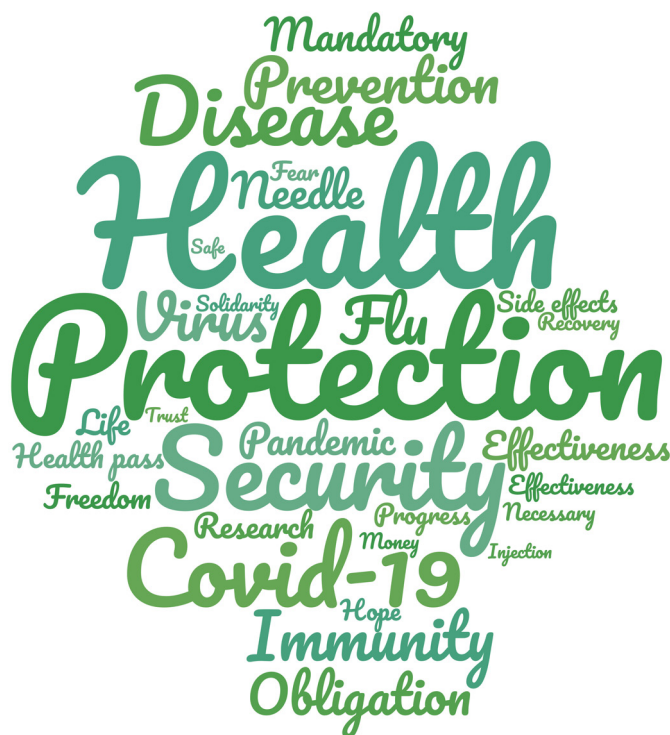
- What is the first thing that comes to mind when you
- hear the word 'vaccine'? Please list the first five words
- that come to mind.

NOVEMBER
2021

1 – First word



2 – Second word



QUESTION N°6
(SERIES)

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

NOVEMBER
2021

3 – Third word



4 – Fourth word



QUESTION N°6
(SERIES)

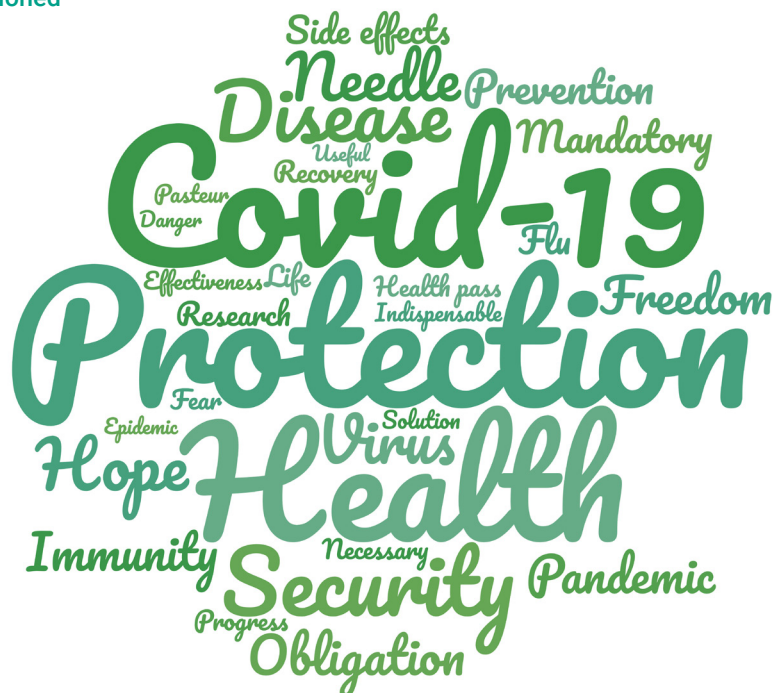
What is the first thing that comes to mind when you hear the word 'vaccine'? Please list the first five words that come to mind.

NOVEMBER
2021

5 – Fifth word



6 – Total of all words mentioned



PART

4

THE OPINION OF THE FRENCH ON NUCLEAR MATTERS

108 – 116

French expectations regarding
nuclear safety

117 – 126

French people's views
on nuclear energy

127 – 128

The perception of nuclear waste
and its management

129 – 152

Competence and credibility
of nuclear stakeholders

QUESTION N°1

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

NOVEMBER 2021

NUCLEAR FACILITIES OPERATORS MUST PROTECT THEIR FACILITIES FROM ALL RISKS, EVEN THOSE CONSIDERED VERY UNLIKELY



EVERY PRECAUTION IS BEING TAKEN TO ENSURE A VERY HIGH LEVEL OF SAFETY IN FRENCH NUCLEAR POWER PLANTS



NUCLEAR SITES CAN CAUSE GROUNDWATER CONTAMINATION



RADIOACTIVITY FROM NUCLEAR POWER PLANTS WILL CAUSE CANCERS



AROUND NUCLEAR FACILITIES, PEOPLE ARE AS HEALTHY AS ELSEWHERE



TODAY, IT IS POSSIBLE TO SAFELY STORE NUCLEAR WASTE



■ STRONGLY AGREE
 ■ SOMEWHAT AGREE
 ■ NEITHER AGREE NOR DISAGREE
■ SOMEWHAT DISAGREE
 ■ STRONGLY DISAGREE
 ■ DON'T KNOW

© IRSN

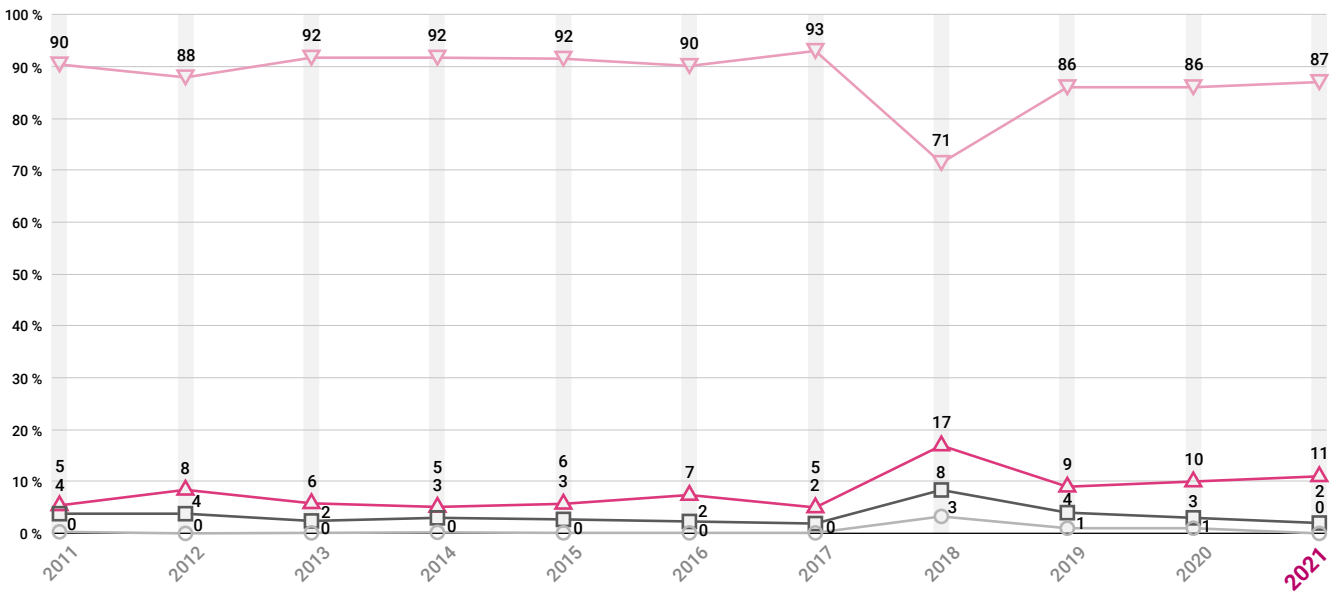
QUESTION N°1
(SERIES)

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 - 2021

In 2019, the answer "maybe agree" was replaced by "neither agree nor disagree".

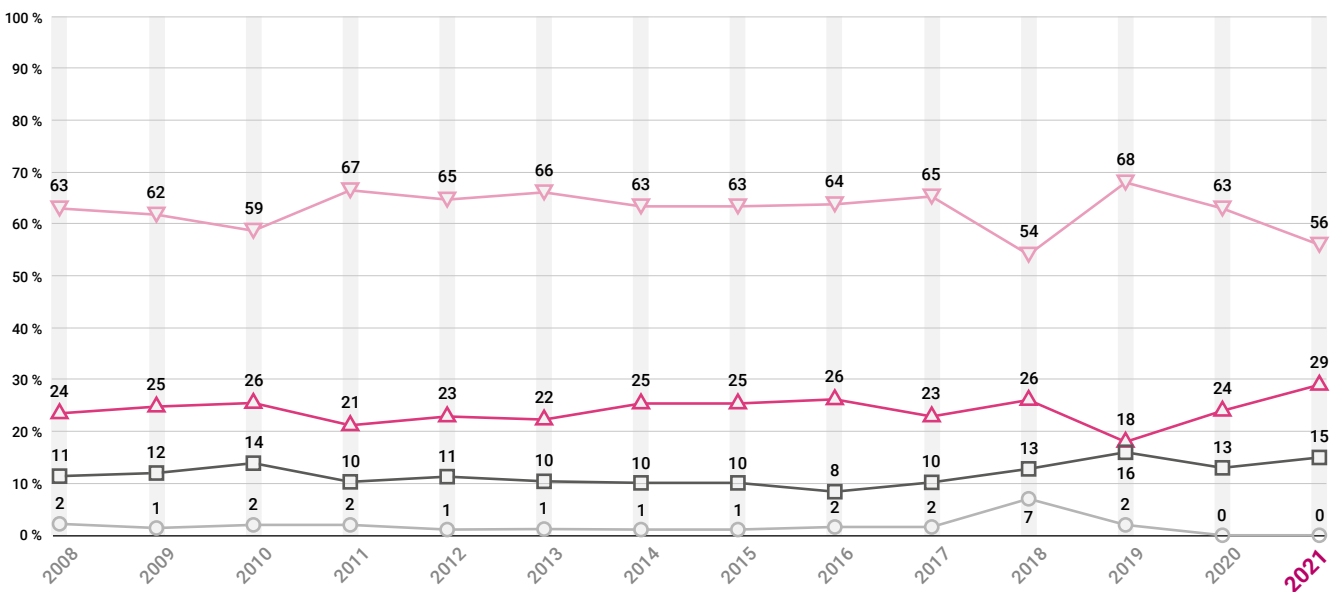
1 – Nuclear facilities operators* must protect their facilities from all risks, even those considered very unlikely



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

© IRSN

2 – Nuclear sites can cause groundwater contamination



© IRSN

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

▽ AGREE
 △ NEITHER AGREE NOR DISAGREE
 □ DISAGREE
 ○ DON'T KNOW

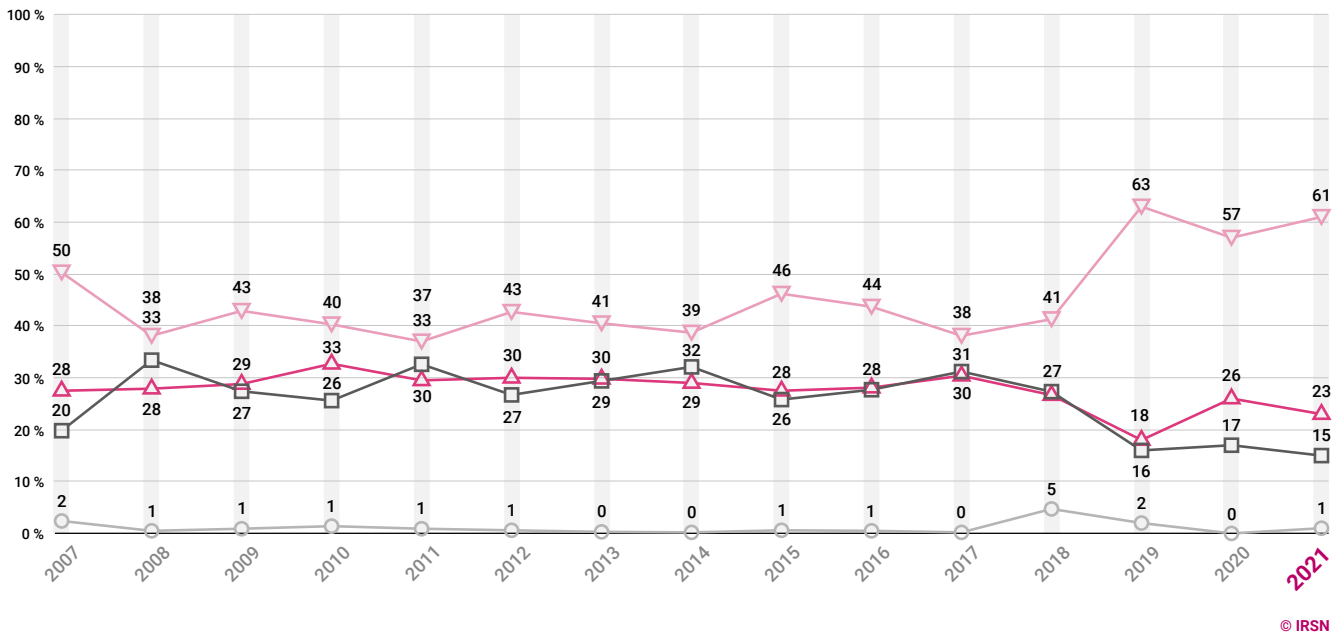
QUESTION N°1
(SERIES)

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

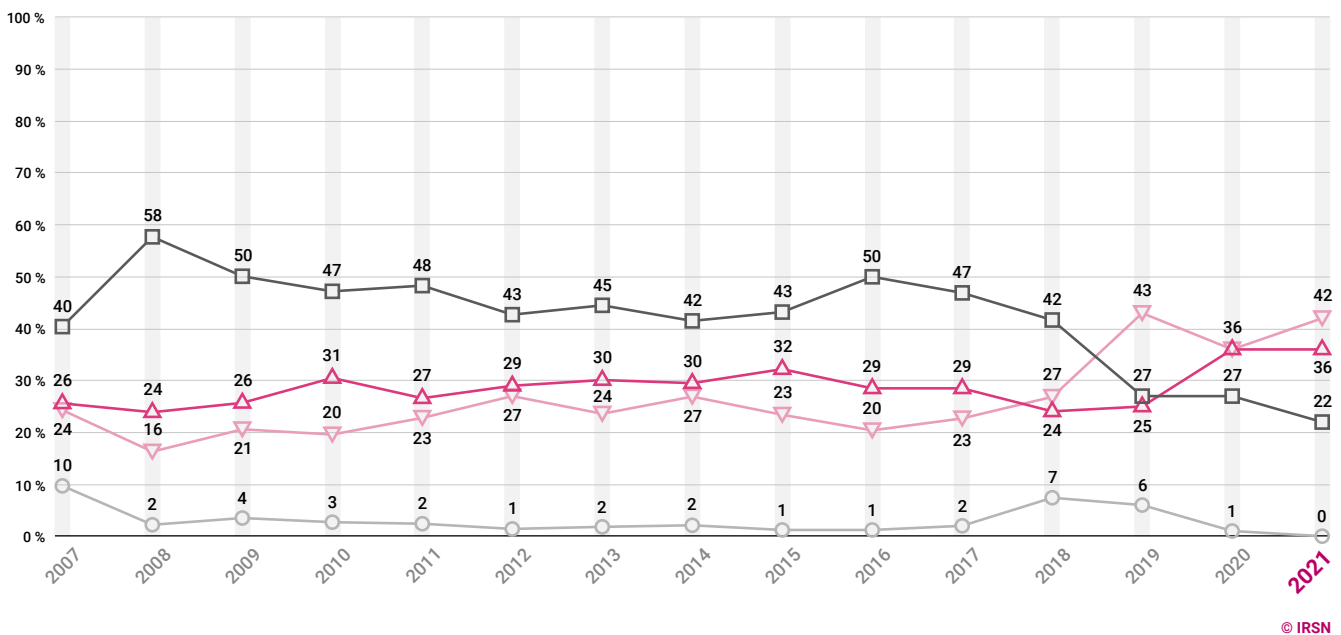
EVOLUTION OF THE RESULTS
2007 - 2021

In 2019, the answer "maybe agree" was replaced by "neither agree nor disagree".

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



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

▽ AGREE
 △ NEITHER AGREE NOR DISAGREE
 □ DISAGREE
 ○ DON'T KNOW

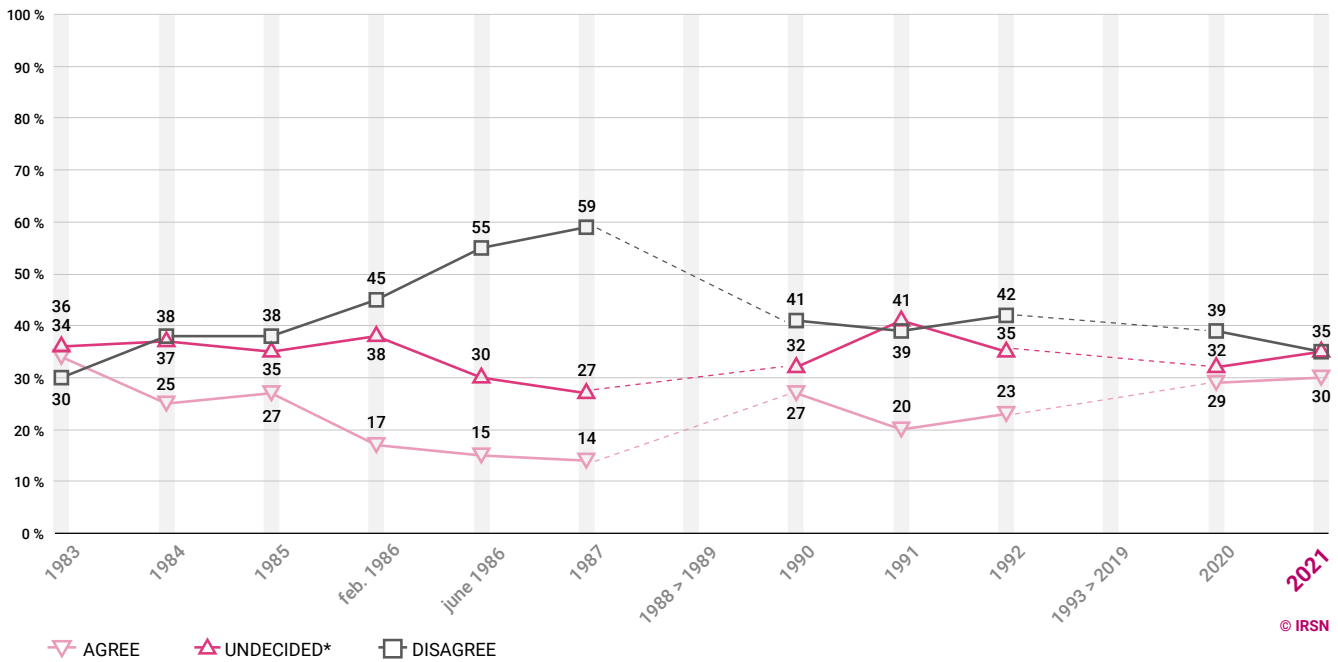
QUESTION N°1
(SERIES)

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
1983 - 2021

In 2019, the answer "maybe agree" was replaced by "neither agree nor disagree".

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



* The "undecided" modality combines the responses "maybe agree" (from 1983 to 1992) and "neither agree nor disagree" (in 2020) with the "don't know" responses.

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

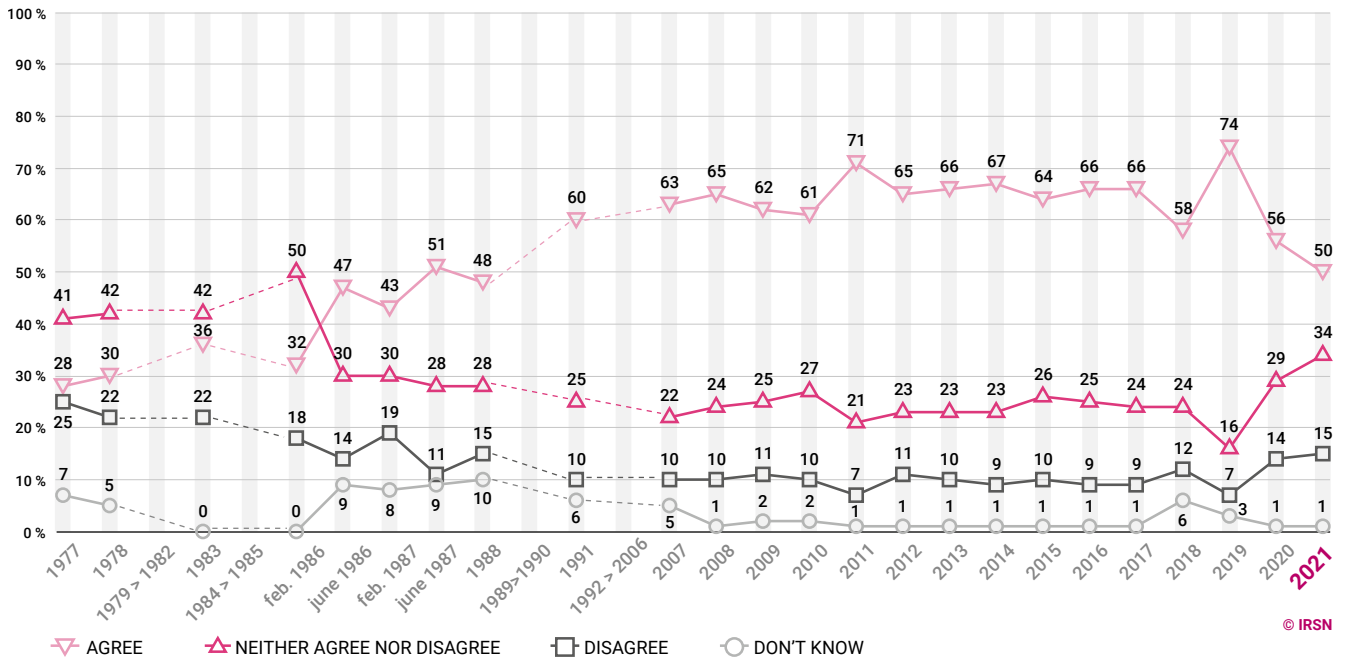
QUESTION N°1
(SERIES)

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 - 2021

In 2019, the answer "maybe agree" was replaced by "neither agree nor disagree".

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".

QUESTION N°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
2021

DEVELOP RESEARCH ON THE SAFETY OF EXISTING NUCLEAR REACTORS



STRENGTHEN INSPECTIONS BY COMPETENT AUTHORITIES IN THE FACILITIES



IMPROVE THE CAPACITY OF FRANCE TO HANDLE A POSSIBLE NUCLEAR EMERGENCY



DEVELOP RESEARCH TO DESIGN A NEW GENERATION OF NUCLEAR REACTORS



BETTER TAKE INTO ACCOUNT THE HUMAN FACTOR AND WORK ORGANIZATION



STRENGTHEN THE ABILITY OF CITIZENS TO EXERCISE VIGILANCE OVER THE SAFETY OF FACILITIES



■ A PRIORITY ■ SECONDARY ■ USELESS ■ DON'T KNOW

© IRSN

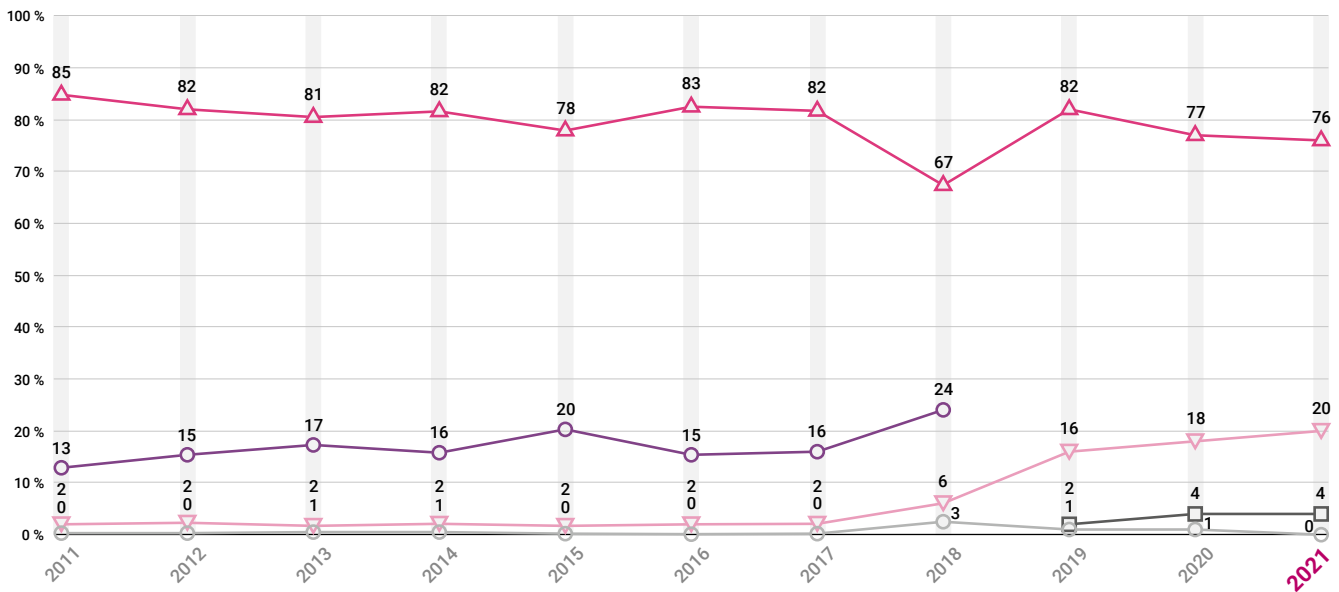
QUESTION N°2
(SERIES)

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 - 2021

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

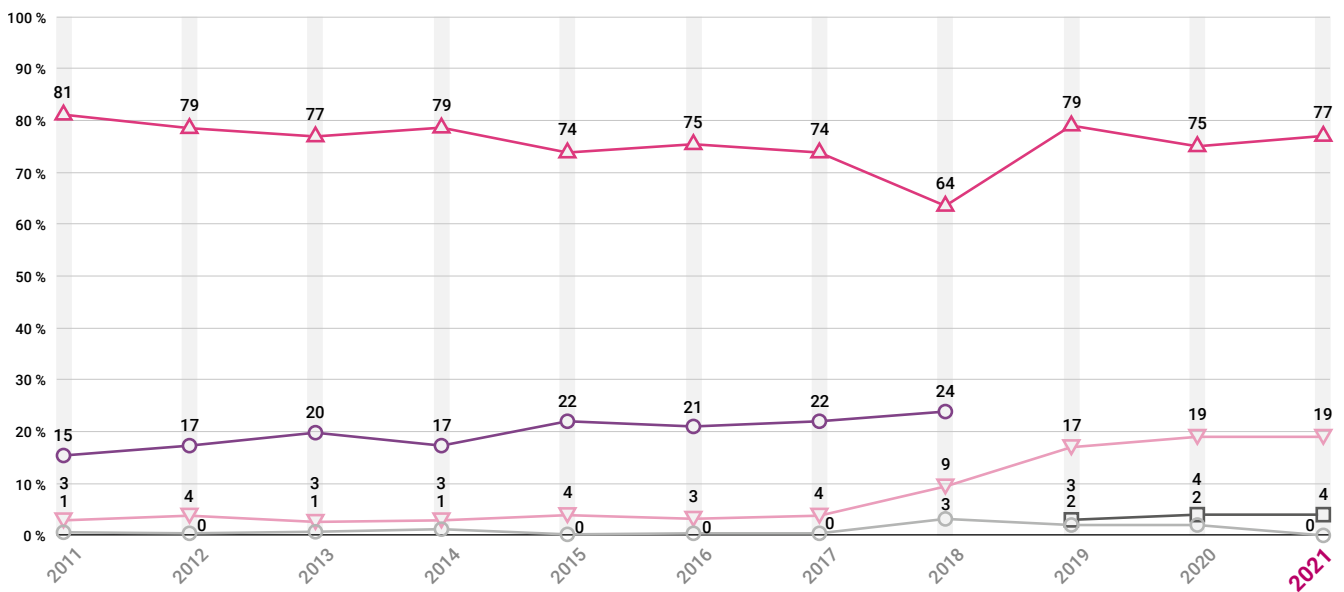
1 – Strengthen inspections by competent authorities in the facilities*



* Up to and including 2018, the proposal was "strengthening inspections in nuclear facilities by the oversight units".

© IRSN

2 – Develop research on the safety of existing nuclear reactors



© IRSN

▲ A PRIORITY ○ IMPORTANT BUT NOT A PRIORITY ▼ SECONDARY □ USELESS ● DON'T KNOW

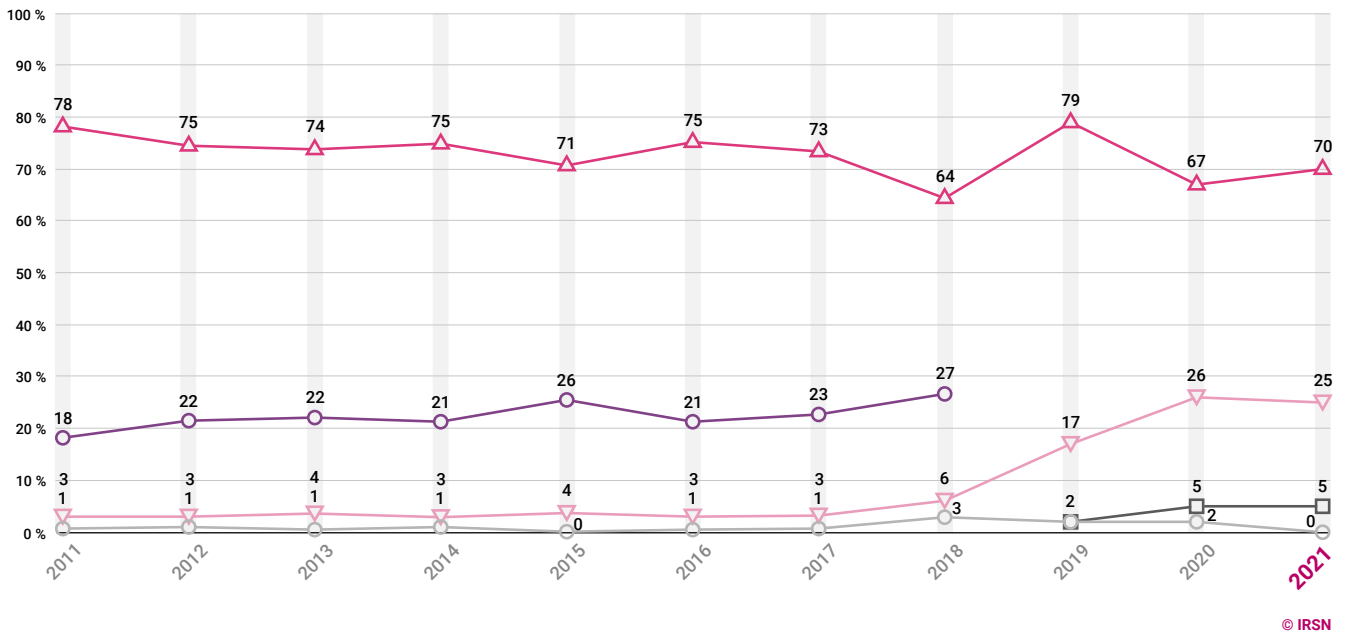
QUESTION N°2
(SERIES)

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.

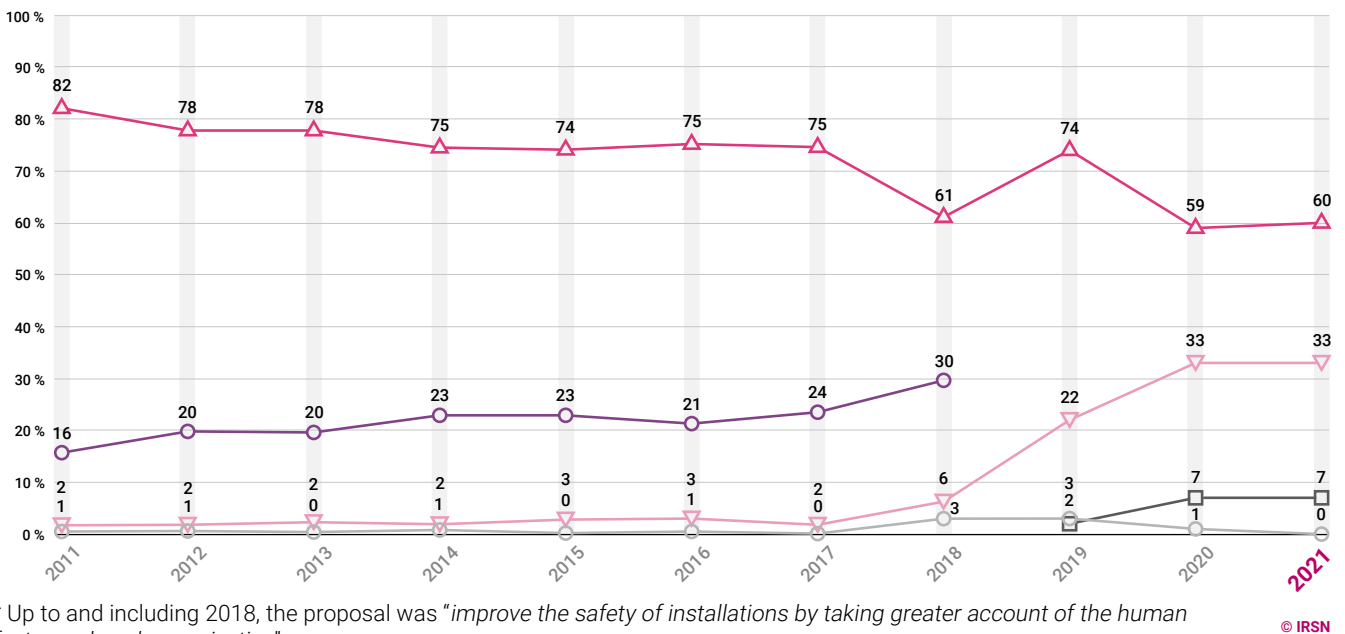
EVOLUTION OF THE RESULTS
2011 - 2021

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

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".

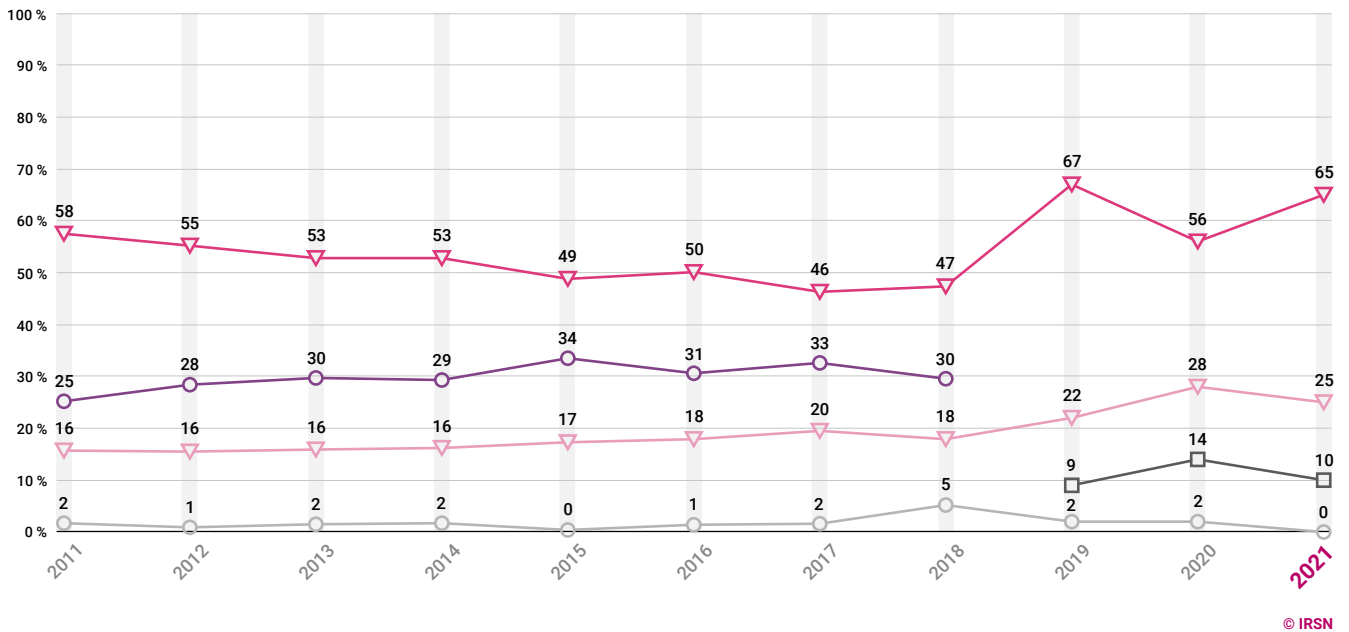
QUESTION N°2
(SERIES)

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.

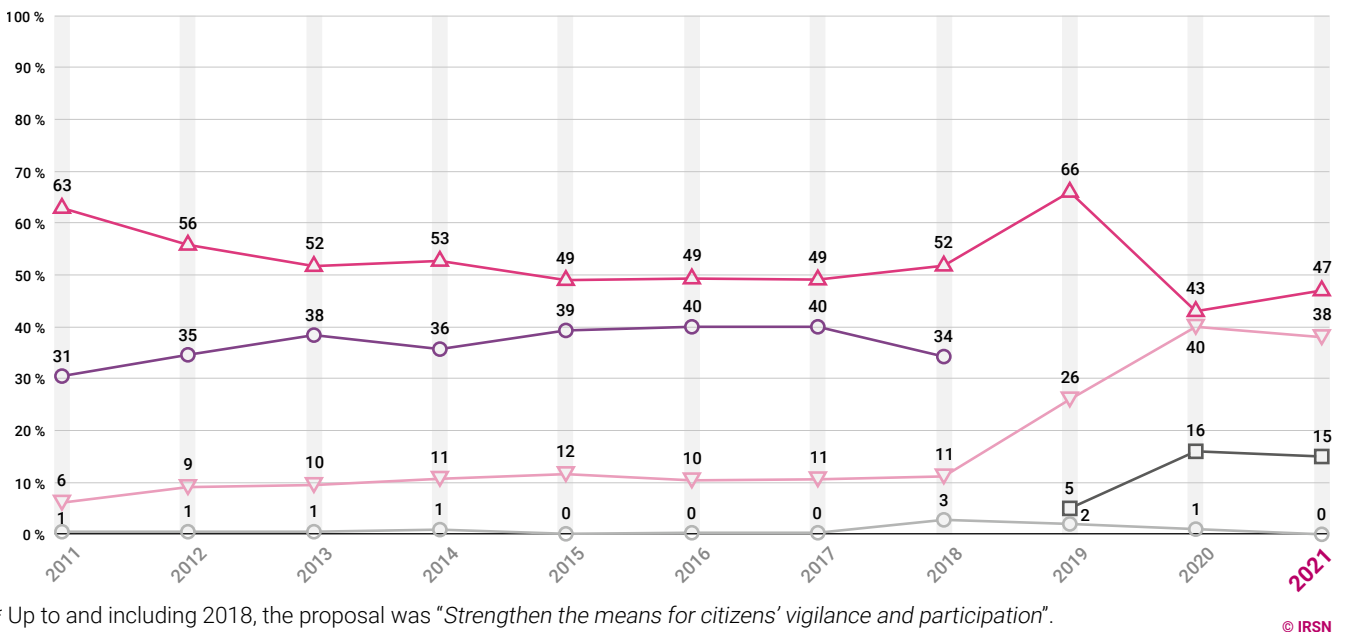
EVOLUTION OF THE RESULTS
2011 - 2021

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

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*



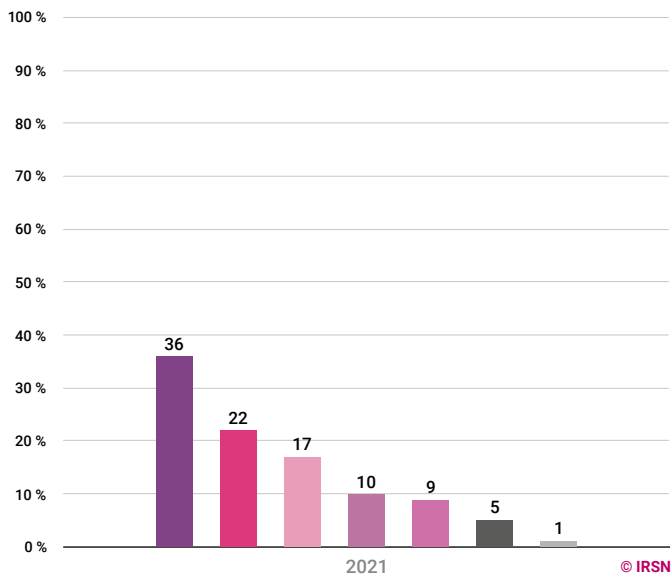
* Up to and including 2018, the proposal was "Strengthen the means for citizens' vigilance and participation".

▲ A PRIORITY ○ IMPORTANT BUT NOT A PRIORITY ▼ SECONDARY □ USELESS ● DON'T KNOW

QUESTION N°3

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

NOVEMBER 2021



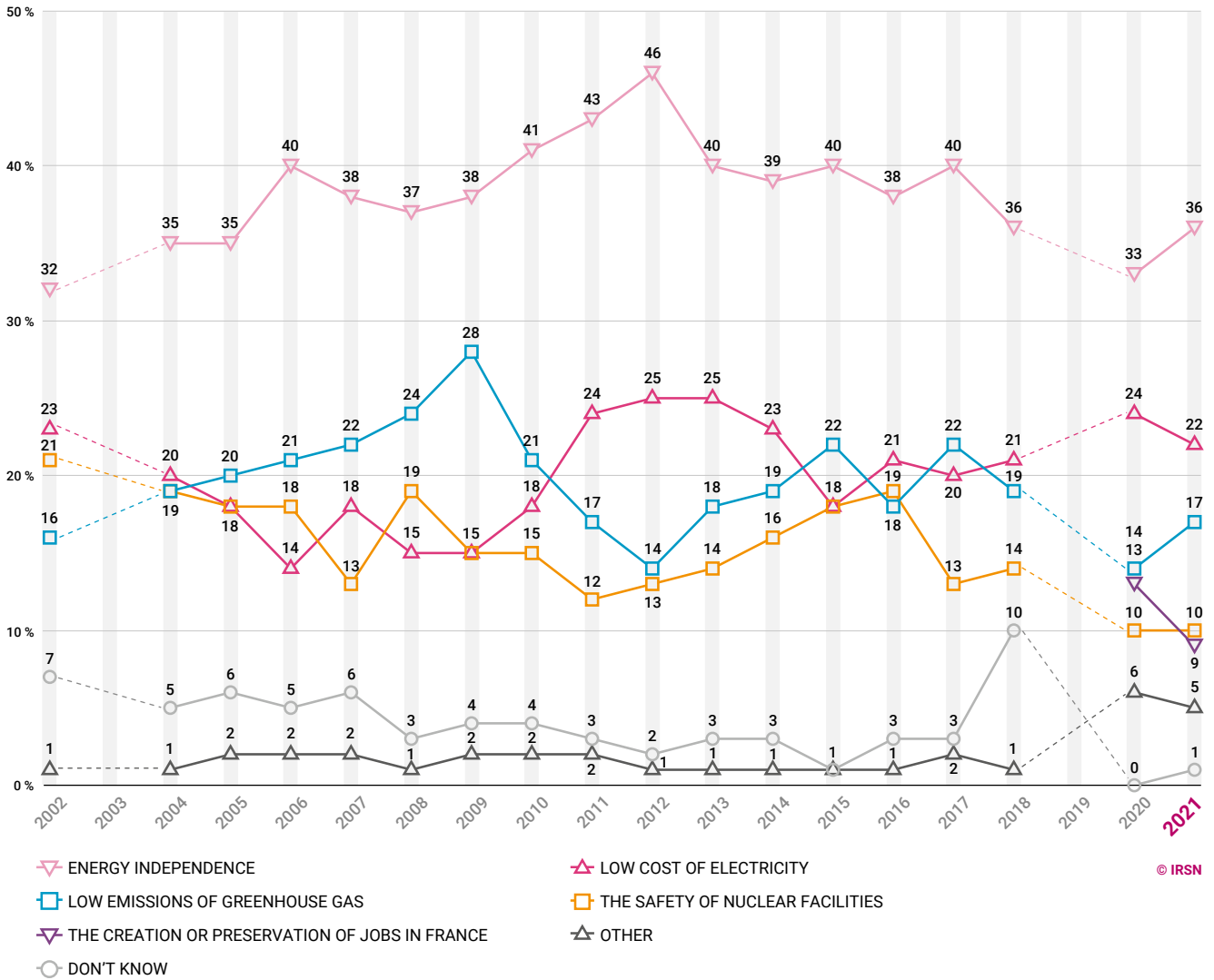
- ENERGY INDEPENDENCE
- LOW COST OF ELECTRICITY
- LOW EMISSIONS OF GREENHOUSE GAS
- THE SAFETY OF NUCLEAR FACILITIES
- THE CREATION OR PRESERVATION OF JOBS IN FRANCE
- OTHER
- DON'T KNOW

QUESTION N°3
(SERIES)

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

EVOLUTION OF THE RESULTS
2002 - 2021

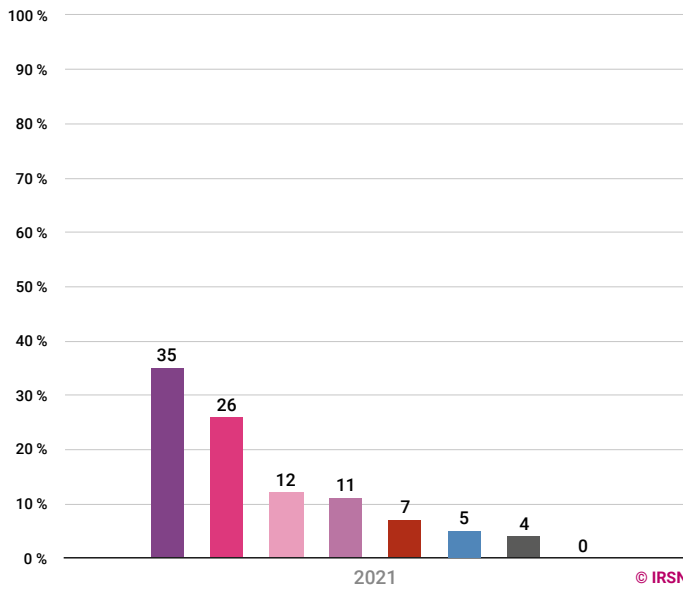
In 2019, the question was asked in a different way: the French expressed their opinion on each argument independently from the others. The specific results for that year can be downloaded on <https://barometre.irsn.fr>.



QUESTION N°4

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

NOVEMBER 2021



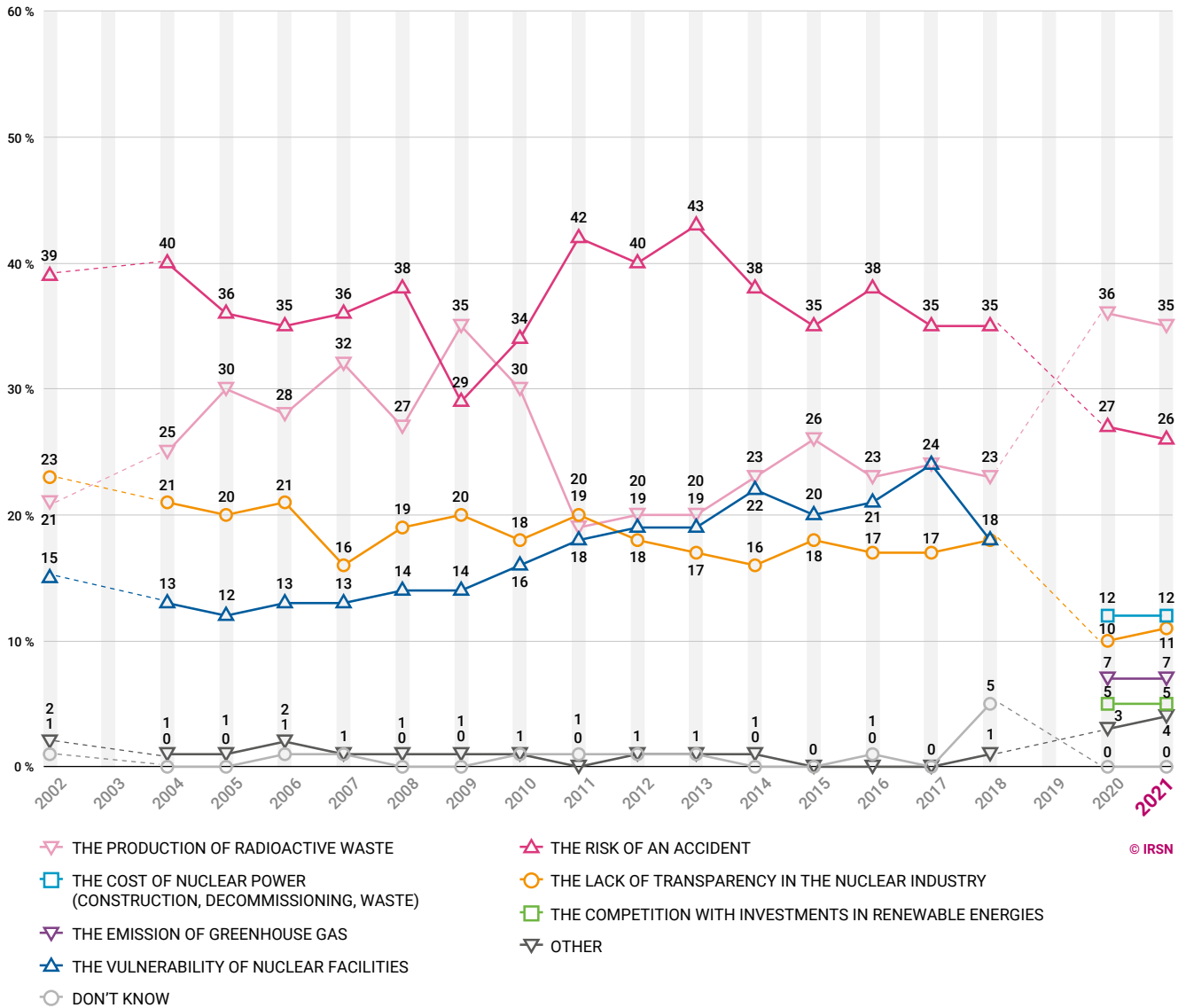
- THE PRODUCTION OF RADIOACTIVE WASTE
- THE RISK OF AN ACCIDENT
- THE COST OF NUCLEAR POWER (CONSTRUCTION, DECOMMISSIONING, WASTE)
- THE LACK OF TRANSPARENCY IN THE NUCLEAR INDUSTRY
- THE EMISSION OF GREENHOUSE GAS
- THE COMPETITION WITH INVESTMENTS IN RENEWABLE ENERGIES
- OTHER
- DON'T KNOW

QUESTION N°4
(SERIES)

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

EVOLUTION OF THE RESULTS
2002 - 2021

In 2019, the question was asked in a different way: the French expressed their opinion on each argument independently from the others. The specific results for that year can be downloaded on <https://barometre.irsn.fr>



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.

QUESTION N°5

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

NOVEMBER 2021

BUILDING NUCLEAR POWER PLANTS WAS A GOOD THING



NEW NUCLEAR POWER PLANTS MUST BE BUILT



NUCLEAR POWER PLANTS MUST BE CLOSED

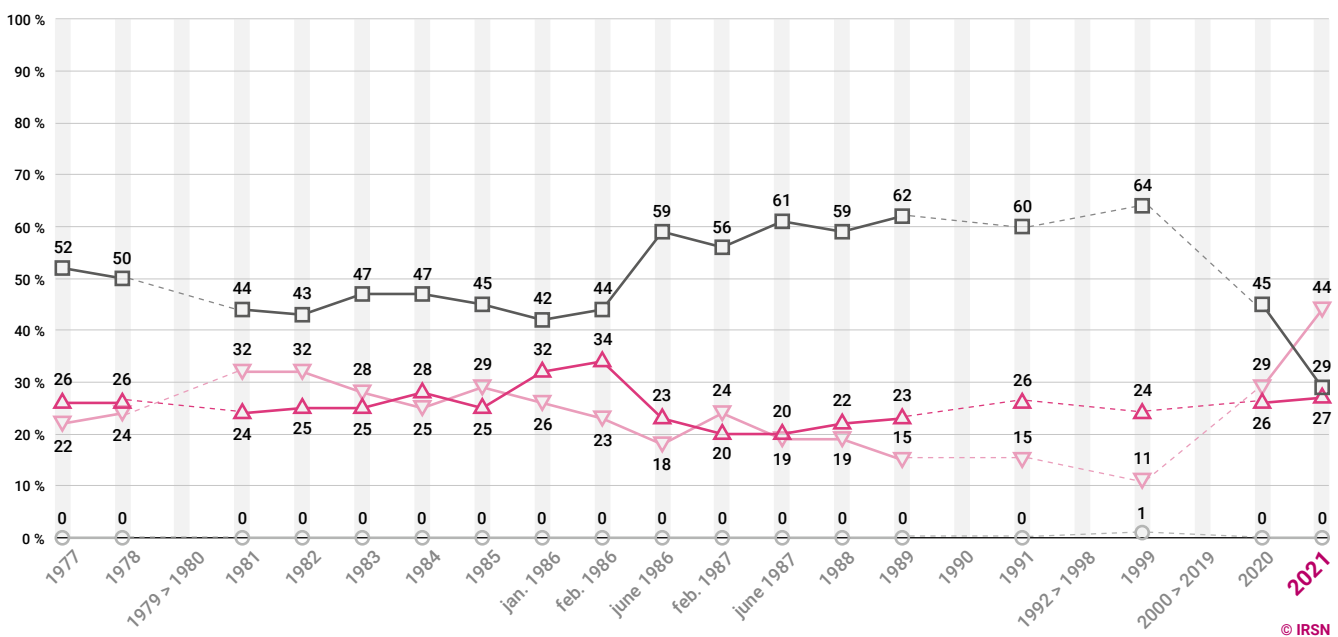


■ STRONGLY AGREE
 ■ SOMEWHAT AGREE
 ■ NEITHER AGREE NOR DISAGREE
 ■ SOMEWHAT DISAGREE
 ■ STRONGLY DISAGREE
 ■ DON'T KNOW
 © IRSN

EVOLUTION OF THE RESULTS 1977 - 2021

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".

1 – New nuclear power plants must be built



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

▽ AGREE
 △ NEITHER AGREE NOR DISAGREE
 □ DISAGREE
 ○ DON'T KNOW

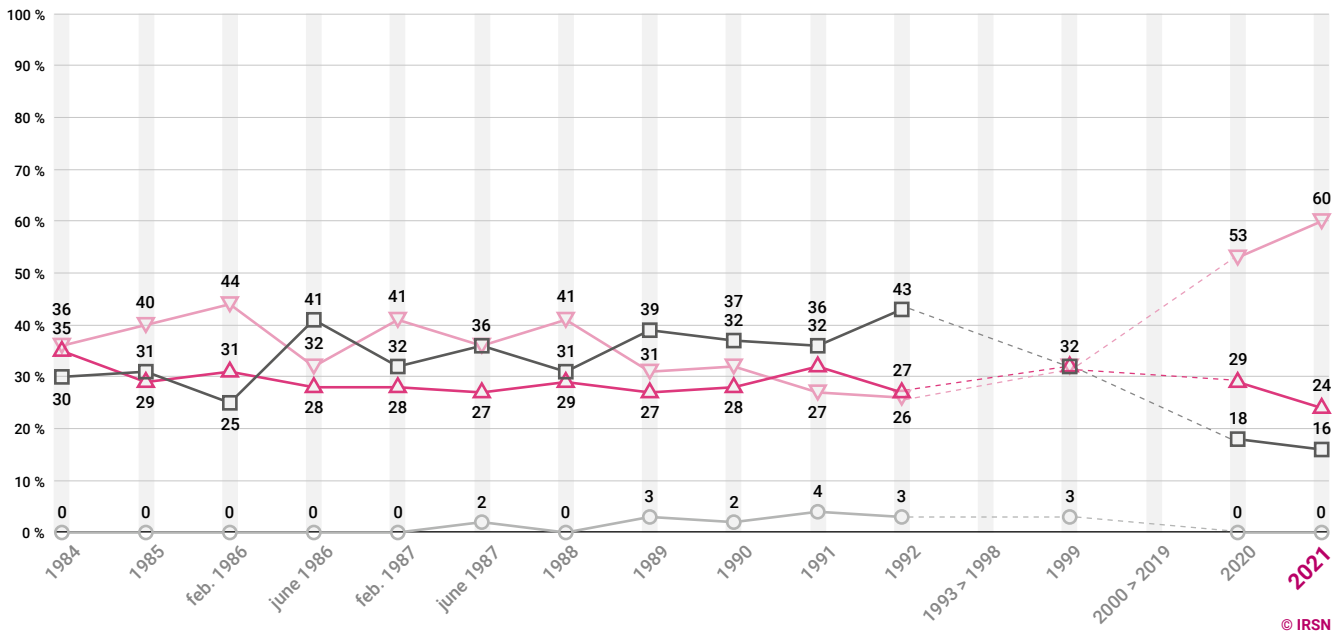
QUESTION N°5
(SERIES)

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

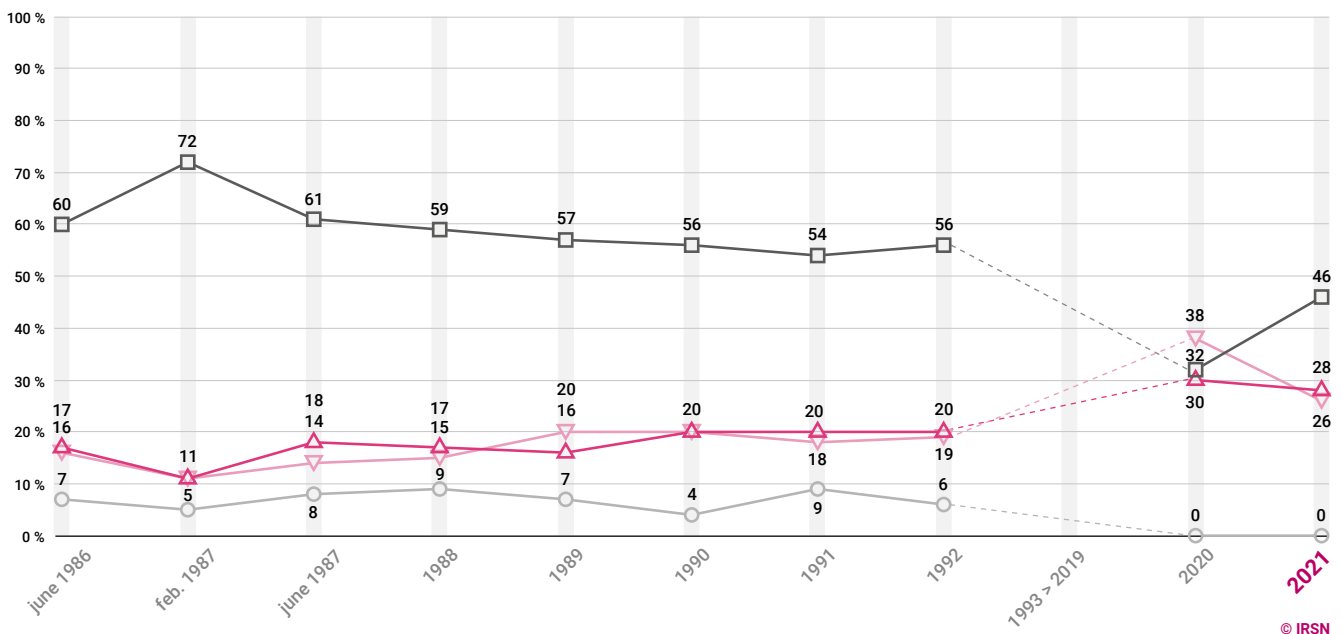
EVOLUTION OF THE RESULTS
1984 - 2021

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".

2 – Building nuclear power plants was a good thing



3 – Nuclear power plants must be closed



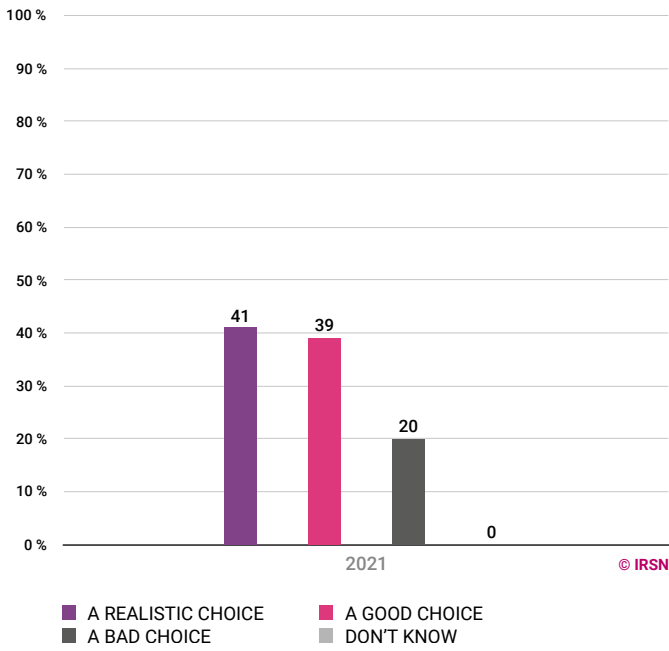
The answers "Strongly agree" and "Somewhat agree" were grouped into "Agree"; "Somewhat disagree" and "Strongly disagree" answers into "Disagree".

▽ AGREE ▲ NEITHER AGREE NOR DISAGREE □ DISAGREE ○ DON'T KNOW

QUESTION N°6

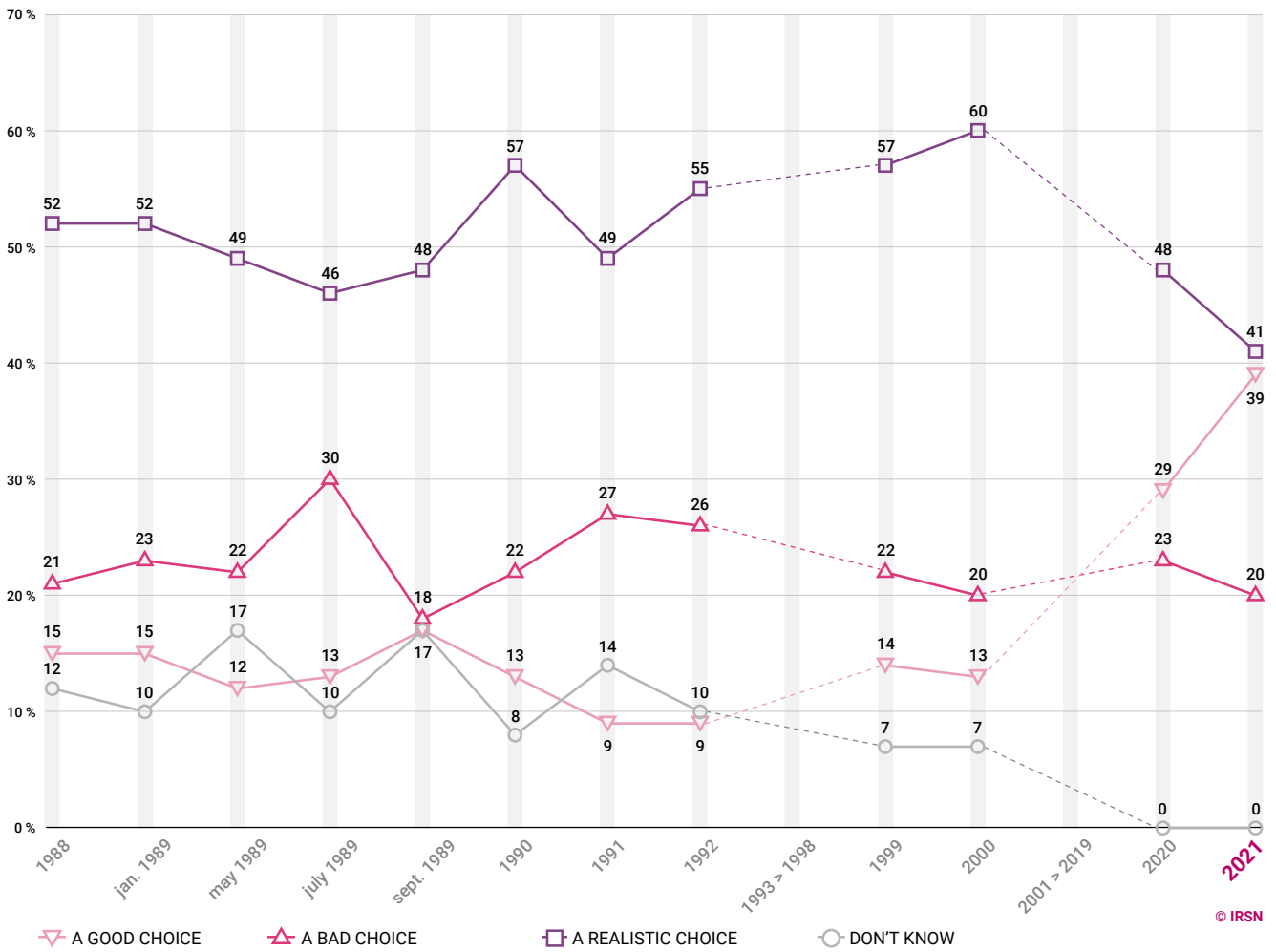
Now and with hindsight, do you think that the choice of nuclear power was...

NOVEMBER 2021



QUESTION N°6 : Now and with hindsight, do you think that the choice
 (SERIES) : of nuclear power was ...

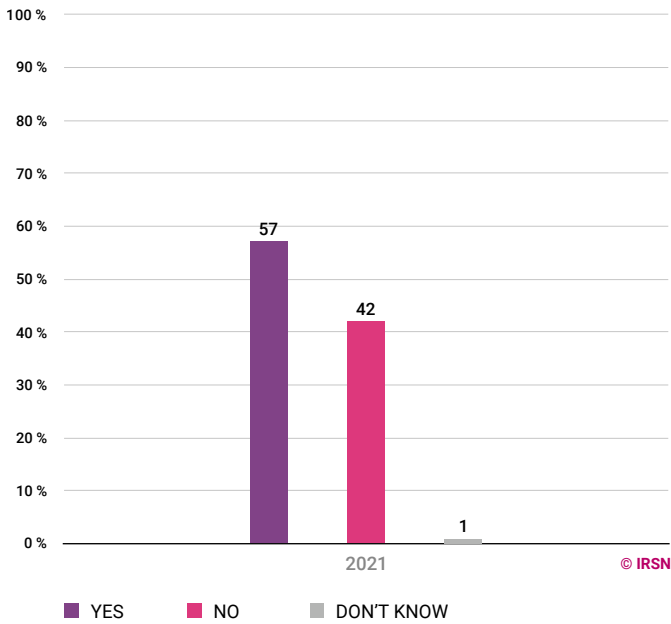
EVOLUTION OF THE RESULTS
 1988 - 2021



QUESTION N°7

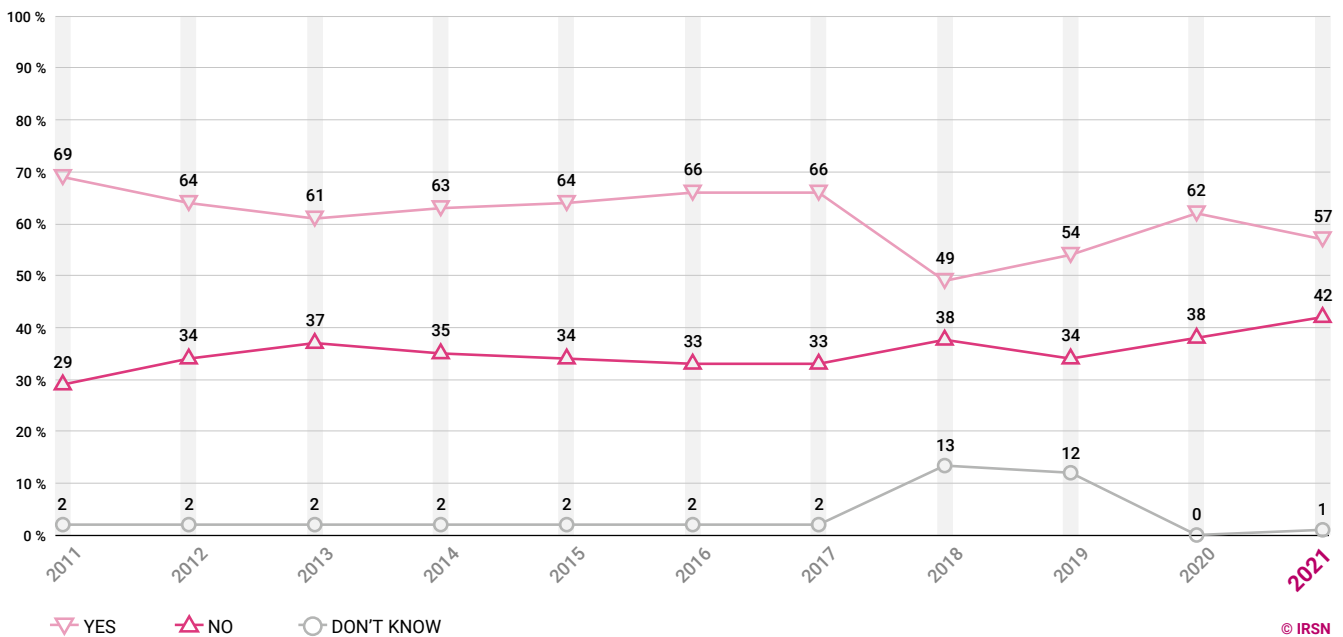
In your opinion, can an accident of the same magnitude as the one in Fukushima occur in a French nuclear power plant?

NOVEMBER 2021



EVOLUTION OF THE RESULTS 2011 - 2021

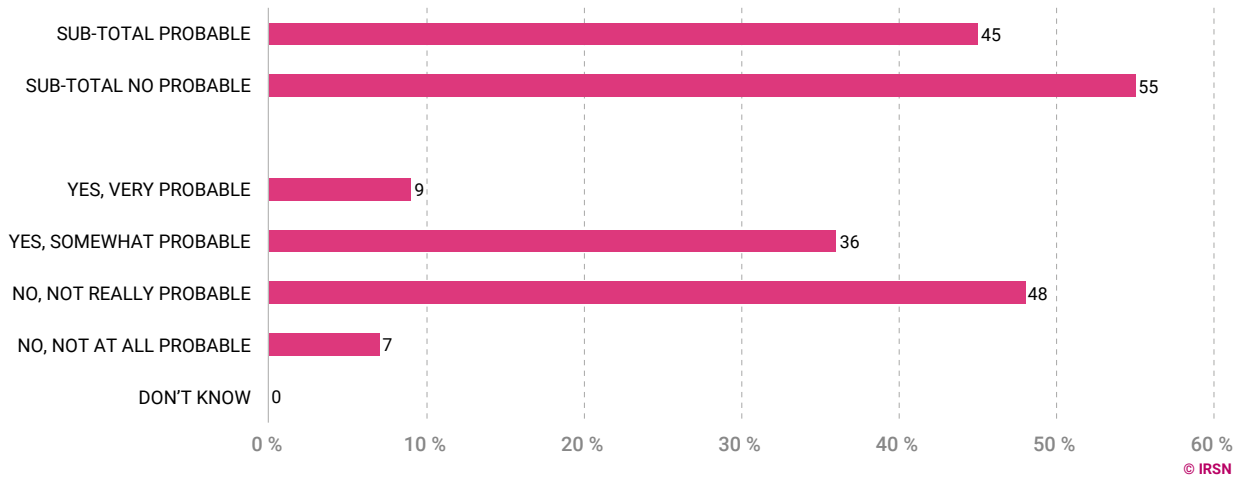
Before 2018, the wording of the question was: "In your opinion, can an accident in a nuclear power plant of the same magnitude as the one in Fukushima occur in France?".



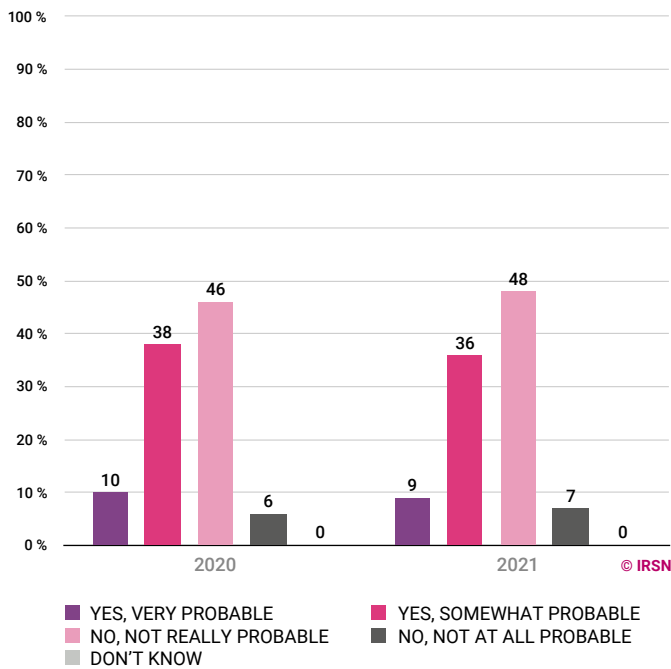
QUESTION N°8

How likely do you think such an accident is?

NOVEMBER 2021



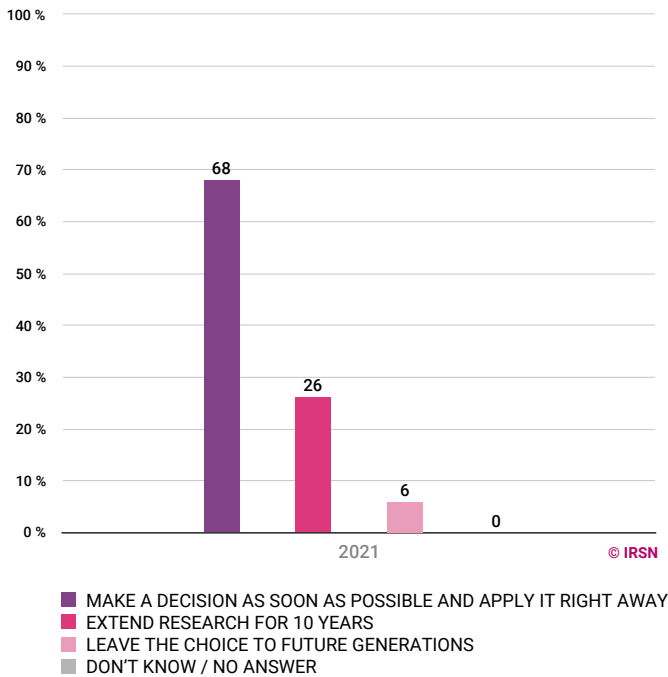
EVOLUTION OF THE RESULTS 2020 - 2021



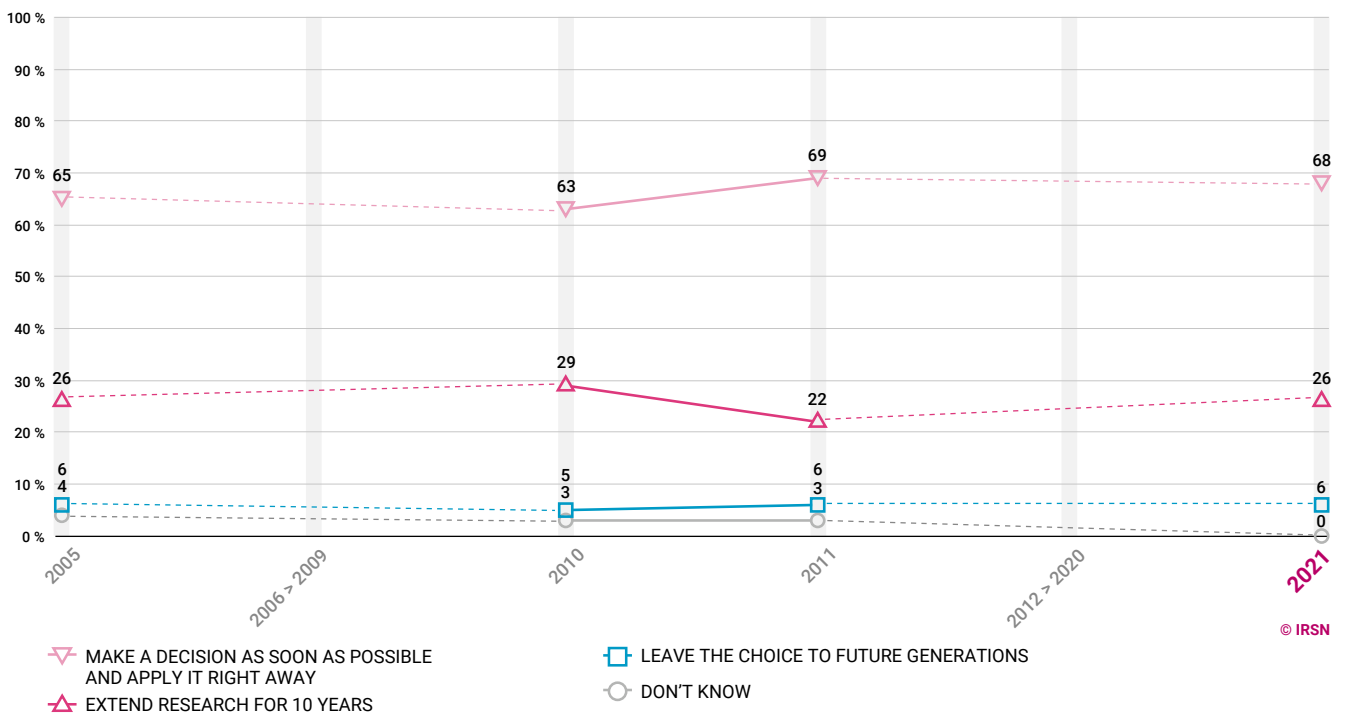
QUESTION N°9

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

NOVEMBER 2021



EVOLUTION OF THE RESULTS 2005 - 2021



QUESTION N°10

Have you heard
of the following topics?

**NOVEMBER
2021**

THE DEVELOPMENT OF SMRS (SMALL MODULAR REACTORS)



THE "CIGEO" PROJECT OF NUCLEAR WASTE BURIAL IN BURE



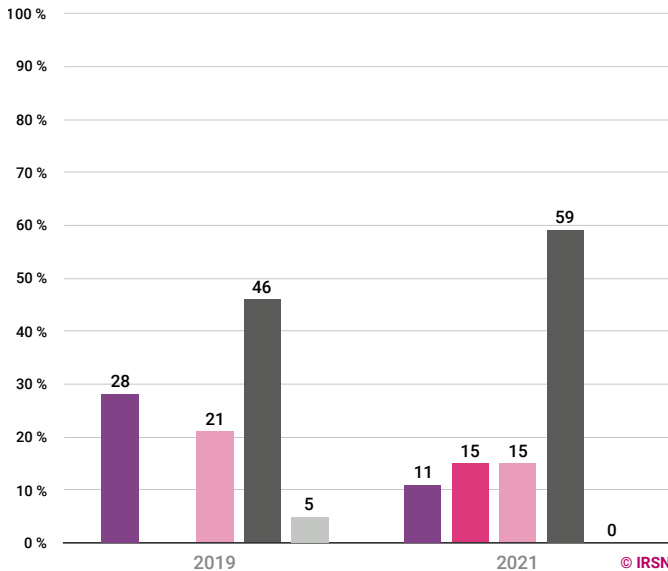
- YES, I KNOW EXACTLY WHAT IT IS ABOUT
- YES, BUT ONLY BY NAME*
- DON'T KNOW / NO ANSWER

- YES, AND I CAN PRETTY MUCH GUESS WHAT IT IS*
- NO, I HAVE NEVER HEARD ABOUT IT

© IRSN

**EVOLUTION OF THE RESULTS
2019 - 2021**

The "Cigeo" project of nuclear waste burial in Bure



- YES, I KNOW EXACTLY WHAT IT IS ABOUT
- YES, AND I CAN PRETTY MUCH GUESS WHAT IT IS*
- YES, BUT ONLY BY NAME*
- NO, I HAVE NEVER HEARD ABOUT IT
- DON'T KNOW / NO ANSWER

© IRSN

* 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 N°11

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

NOVEMBER
2021

THE CNRS (NATIONAL CENTER FOR SCIENTIFIC RESEARCH)



IRSN (INSTITUTE FOR RADIOLOGICAL PROTECTION AND NUCLEAR SAFETY)



ASN (NUCLEAR SAFETY AUTHORITY)



CEA (ATOMIC ENERGY COMMISSION)



ANDRA (NATIONAL AGENCY FOR RADIOACTIVE WASTE MANAGEMENT)



THE HCTISN (HIGH COMMITTEE FOR TRANSPARENCY AND INFORMATION ON NUCLEAR SECURITY)



THE ACADEMY OF SCIENCES



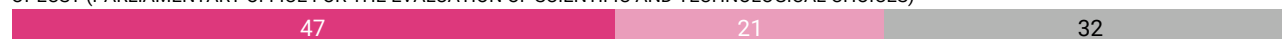
PHYSICIANS



EDF



OPECST (PARLIAMENTARY OFFICE FOR THE EVALUATION OF SCIENTIFIC AND TECHNOLOGICAL CHOICES)



INTERNATIONAL AGENCIES (IAEA, NEA, ETC.)



CONSUMER PROTECTION ORGANIZATIONS



ENVIRONMENTAL NGOS



ORANO (FORMERLY AREVA)



THE GOVERNMENT



THE CLI (LOCAL INFORMATION COMMISSIONS)



LOCAL ELECTED OFFICIALS



LABOR UNIONS



JOURNALISTS



POLITICIANS



■ YES ■ NO ■ DON'T KNOW

© IRSN

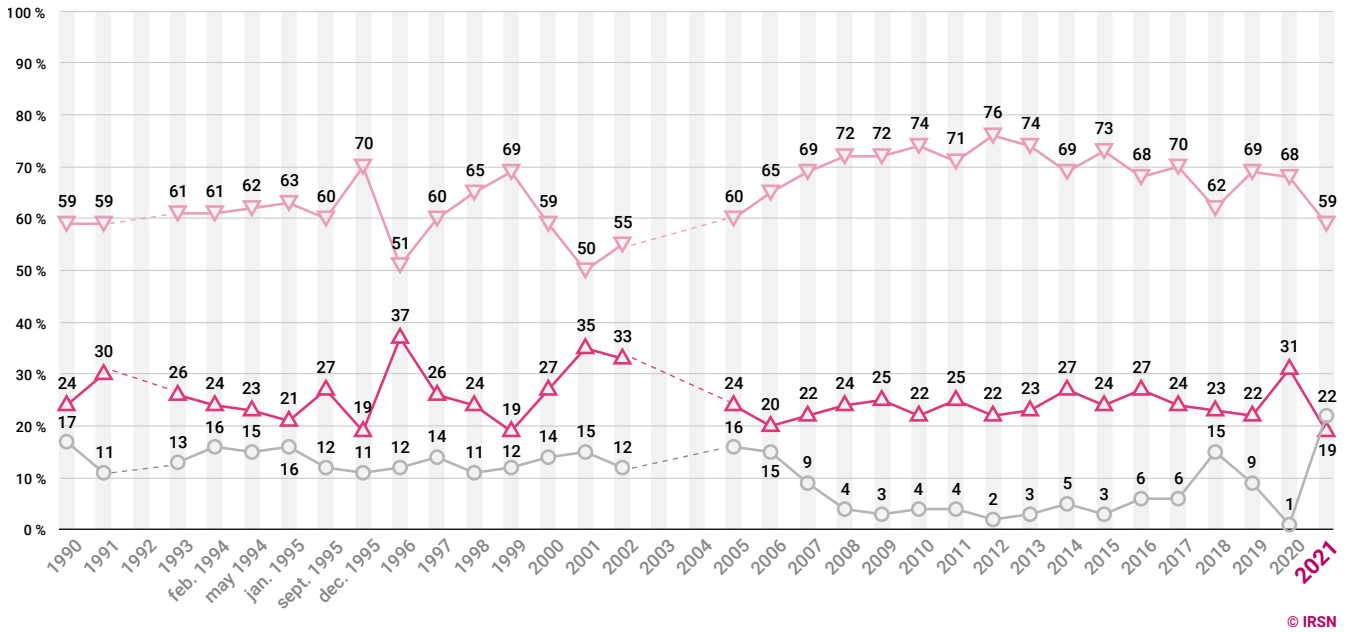
QUESTION N°11

(SERIES)

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

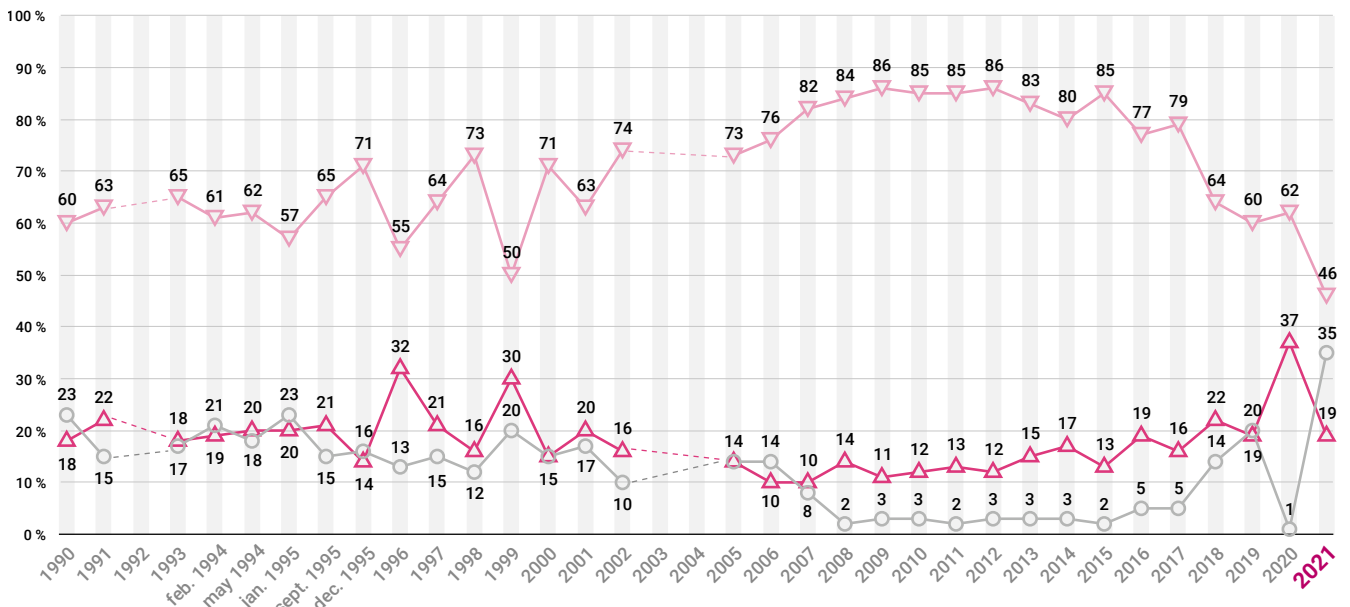
EVOLUTION OF THE RESULTS
1990 - 2021

1 – The Academy of Sciences



© IRSN

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.)".

© IRSN

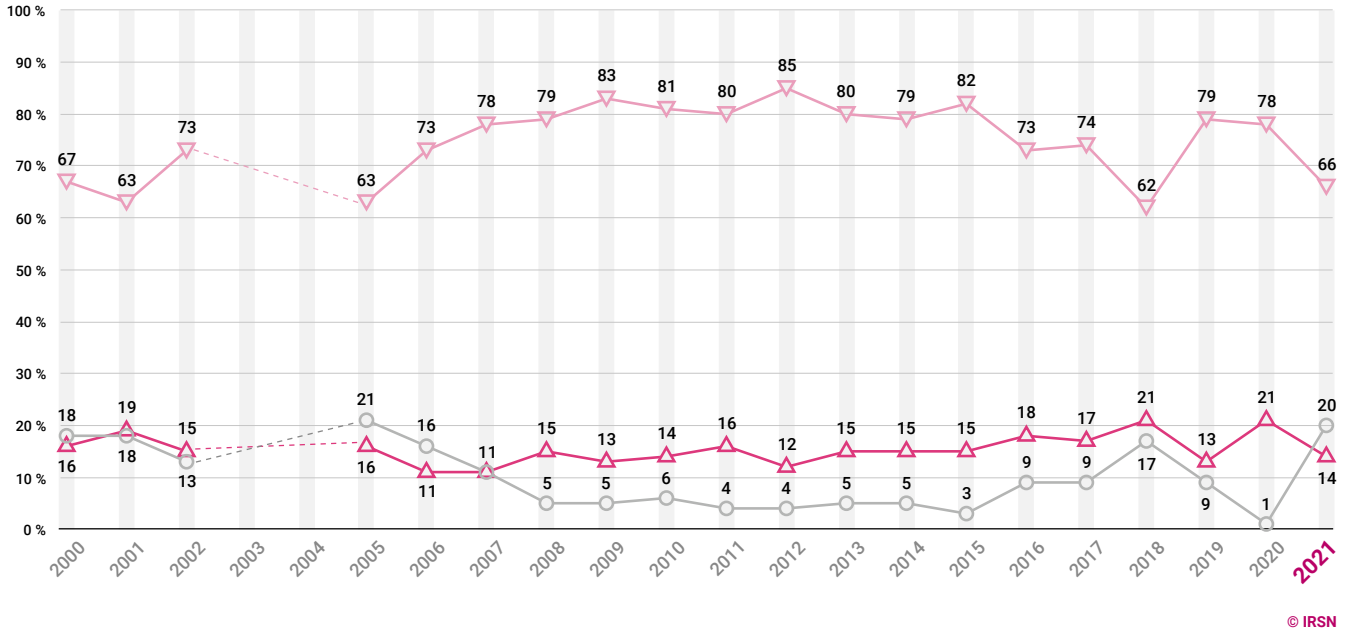
▽ YES ▲ NO ○ DON'T KNOW

QUESTION N°11
(SERIES)

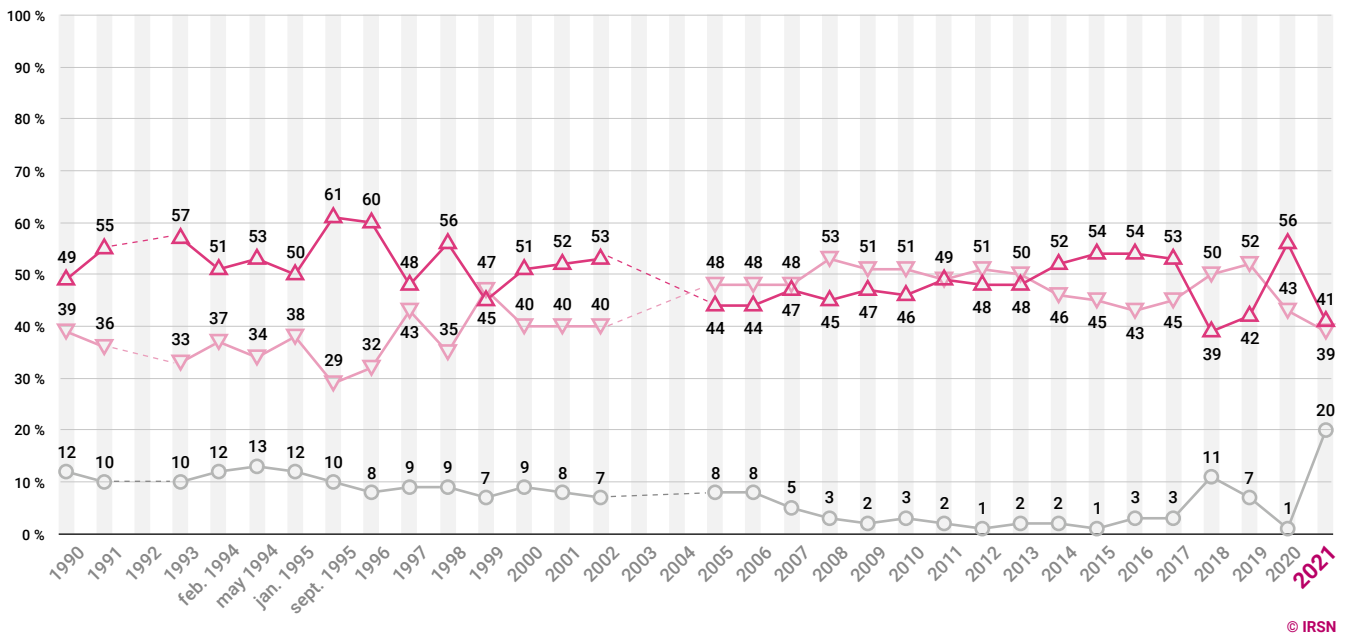
In the field of nuclear industry and energy
do you think the following actors and organizations
are technically competent?

EVOLUTION OF THE RESULTS
1990 - 2021

3 – ANDRA (National agency for radioactive waste management)



4 – Consumer protection organizations



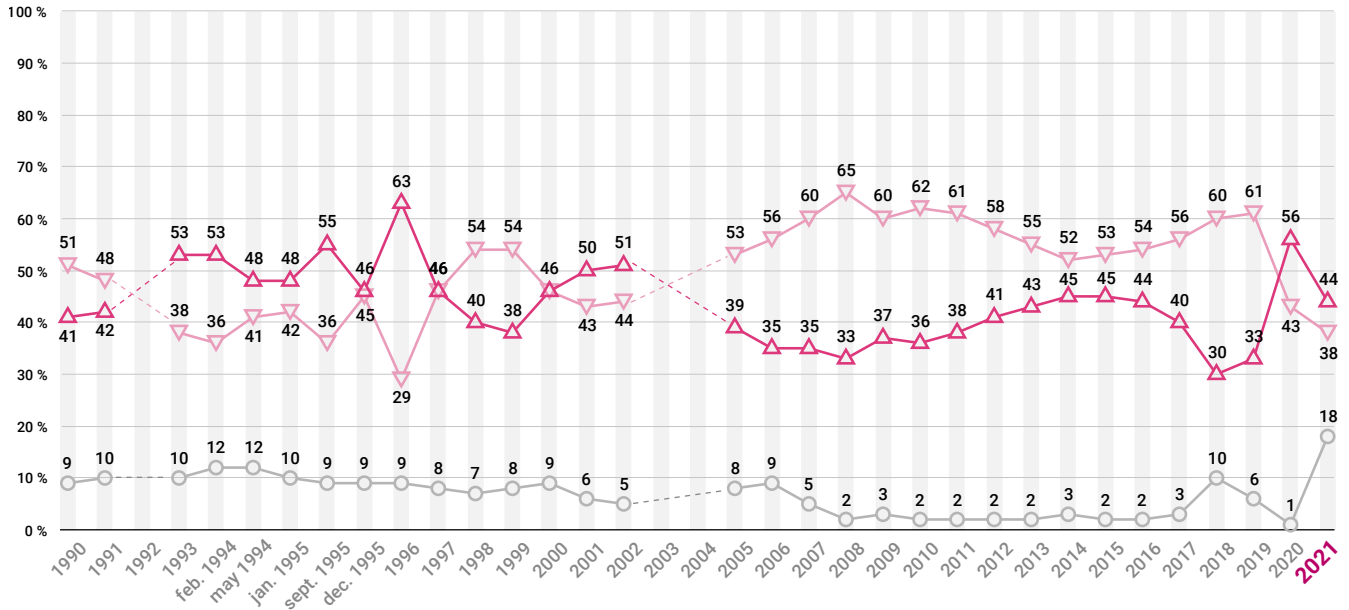
▽ YES ▲ NO ○ DON'T KNOW

QUESTION N°11
(SERIES)

In the field of nuclear industry and energy
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EVOLUTION OF THE RESULTS
1990 - 2021

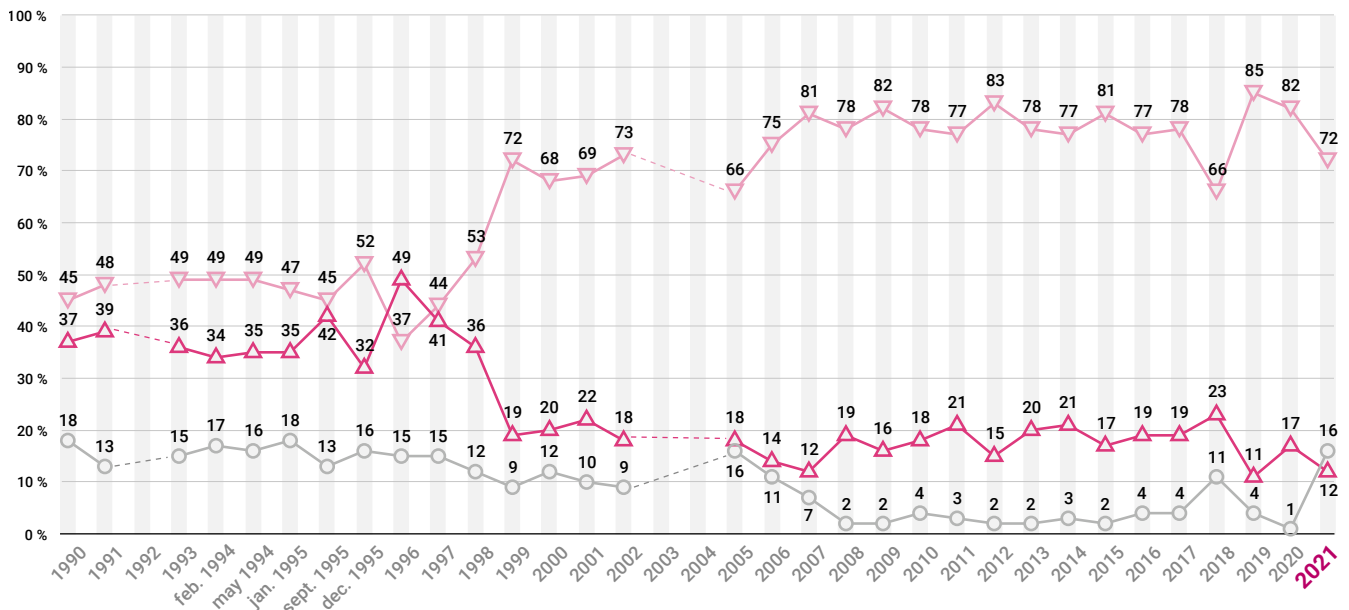
5 – Environmental NGOs*



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

© IRSN

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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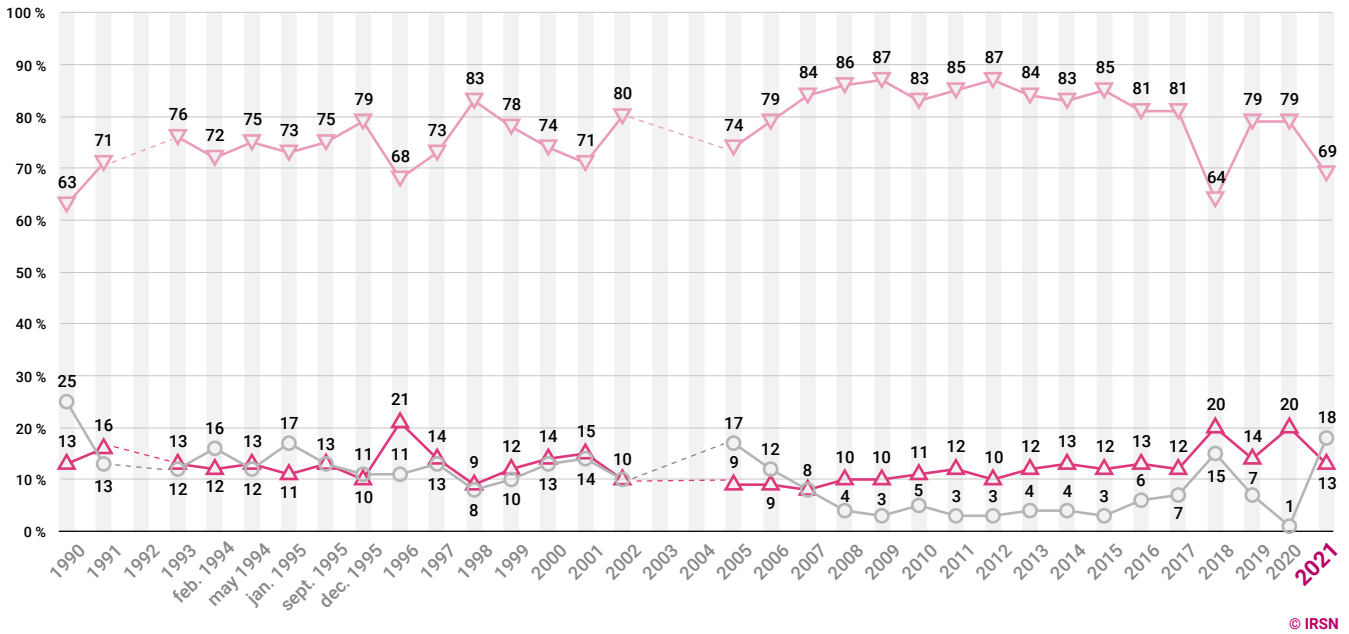
▽ YES ▲ NO ○ DON'T KNOW

QUESTION N°11
(SERIES)

In the field of nuclear industry and energy
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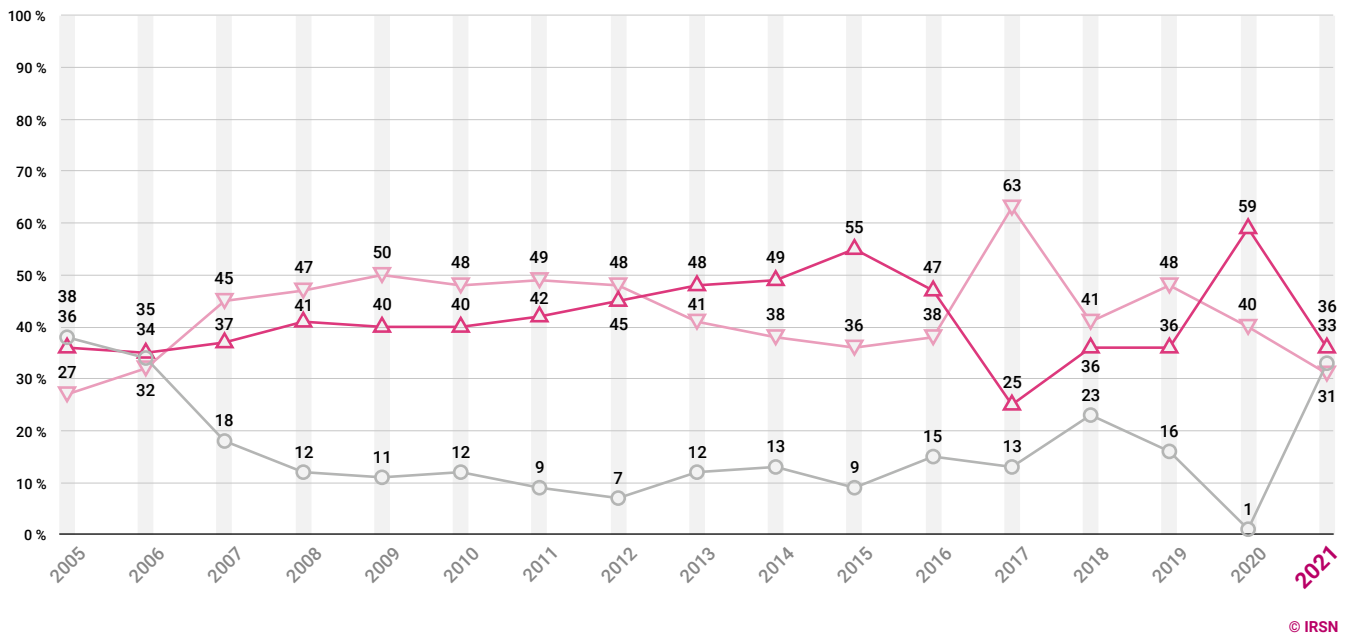
EVOLUTION OF THE RESULTS
1990 - 2021

7 – CEA (Atomic energy commission)



© IRSN

8 – The CLI (Local Information Commissions)



© IRSN

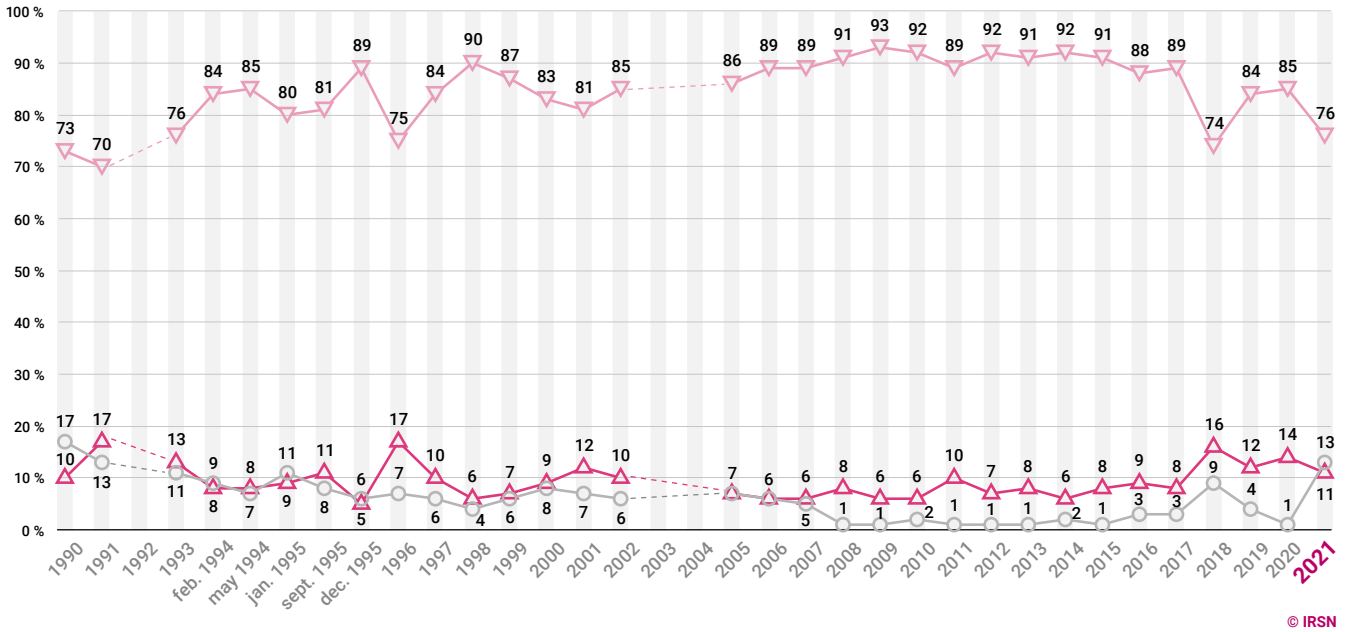
▽ YES ▲ NO ○ DON'T KNOW

QUESTION N°11
(SERIES)

In the field of nuclear industry and energy
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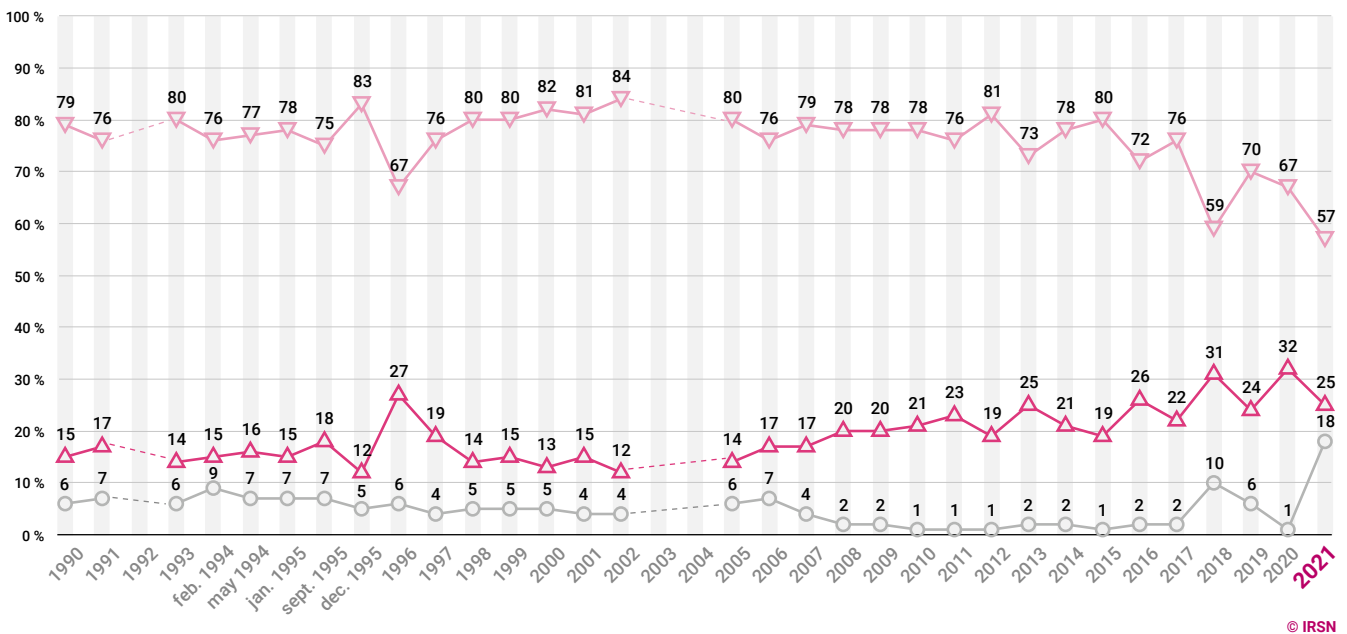
EVOLUTION OF THE RESULTS
1990 - 2021

9 – The CNRS (National Center for Scientific Research)



© IRSN

10 – EDF



© IRSN

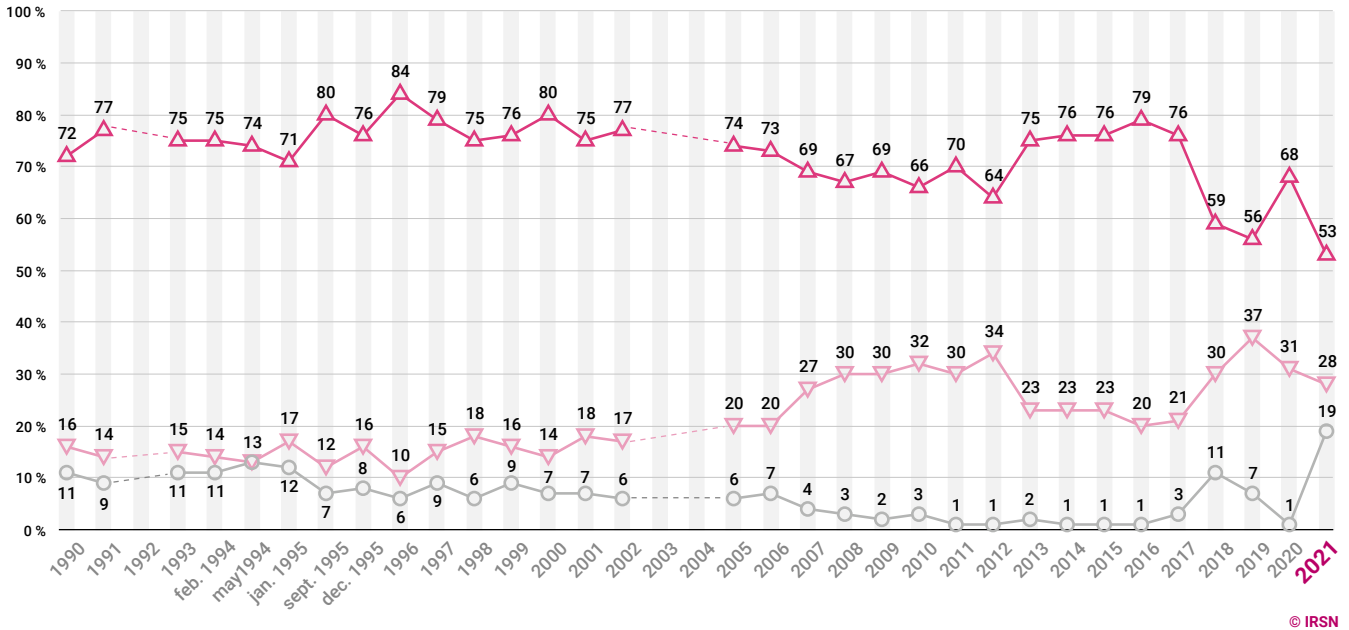
▽ YES ▲ NO ○ DON'T KNOW

QUESTION N°11
(SERIES)

In the field of nuclear industry and energy
do you think the following actors and organizations
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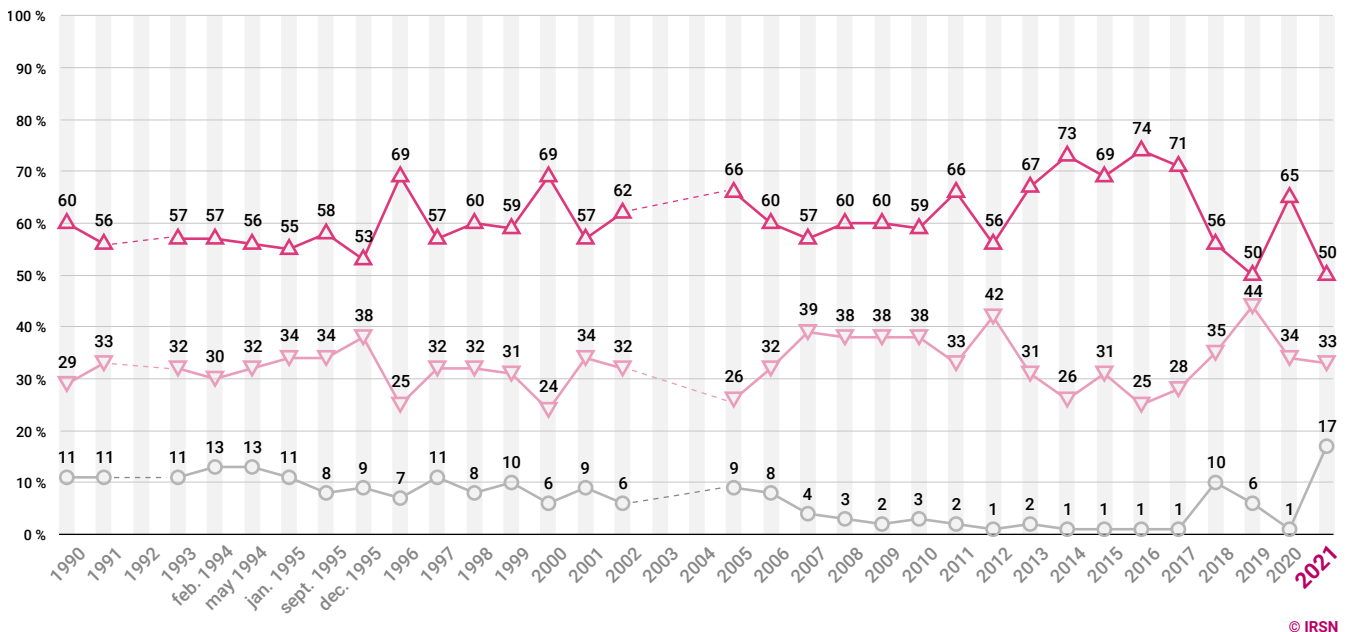
EVOLUTION OF THE RESULTS
1990 - 2021

11 – Local elected officials



© IRSN

12 – The government



© IRSN

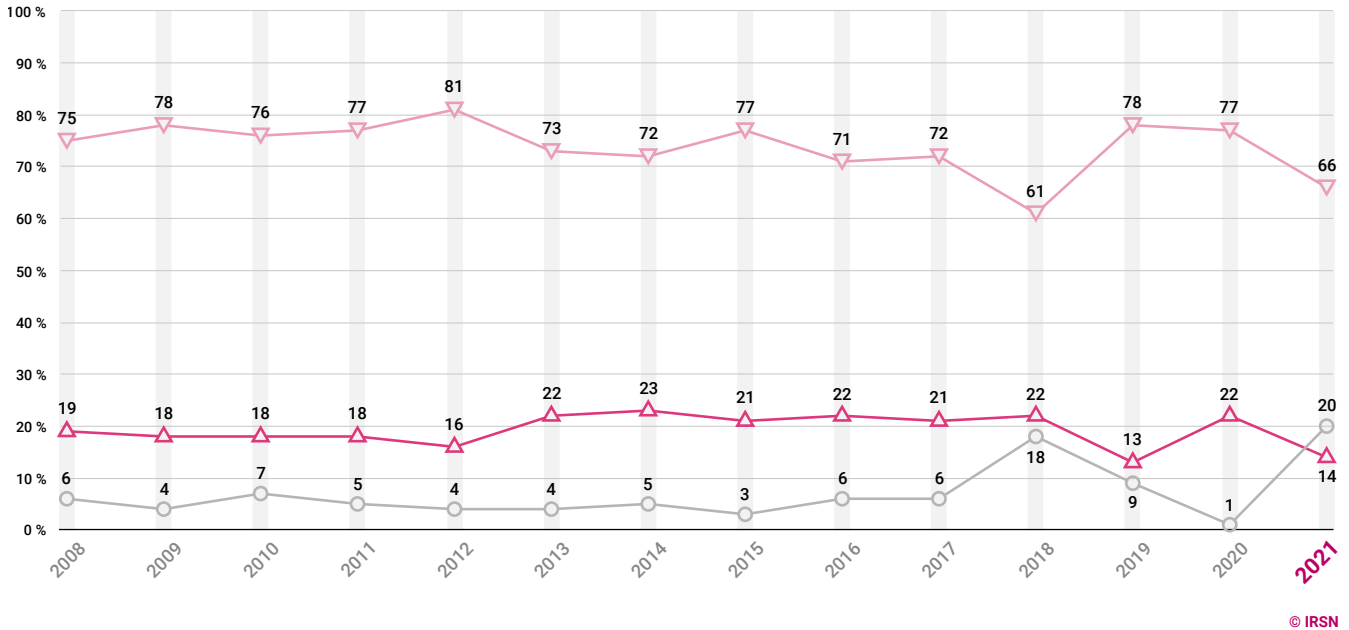
▽ YES ▲ NO ○ DON'T KNOW

QUESTION N°11
(SERIES)

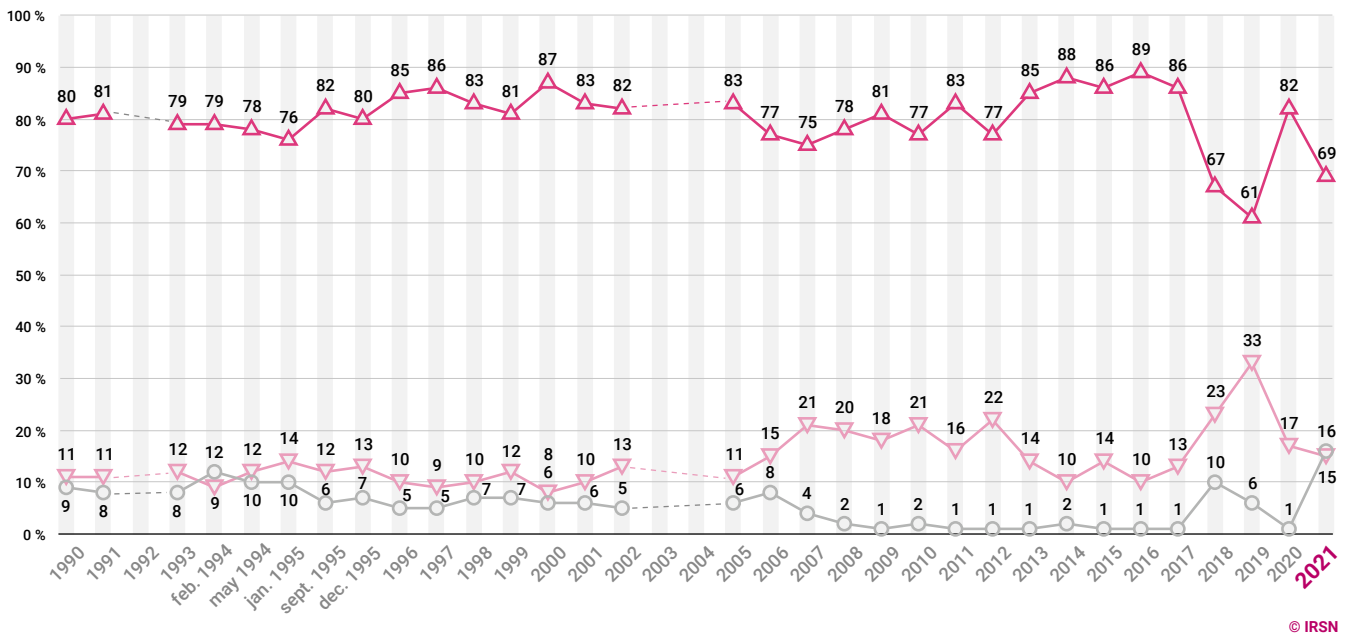
In the field of nuclear industry and energy
do you think the following actors and organizations
are technically competent?

EVOLUTION OF THE RESULTS
1990 - 2021

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



14 – Politicians



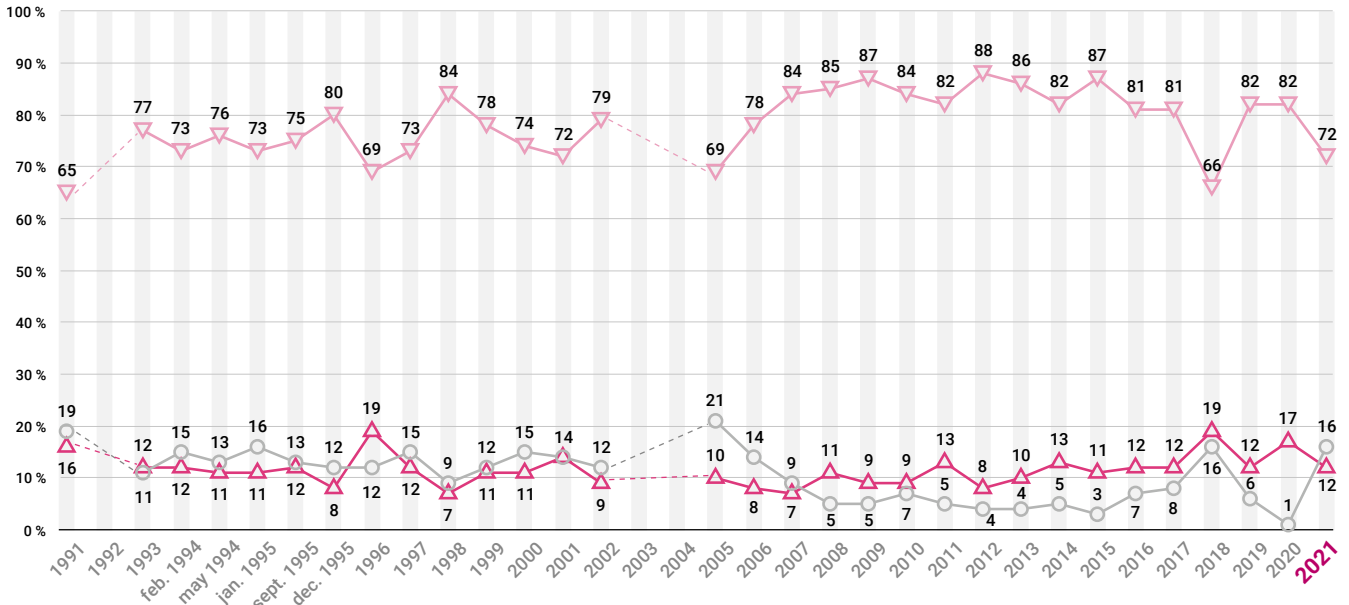
▽ YES ▲ NO ○ DON'T KNOW

QUESTION N°11
(SERIES)

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

EVOLUTION OF THE RESULTS
1990 - 2021

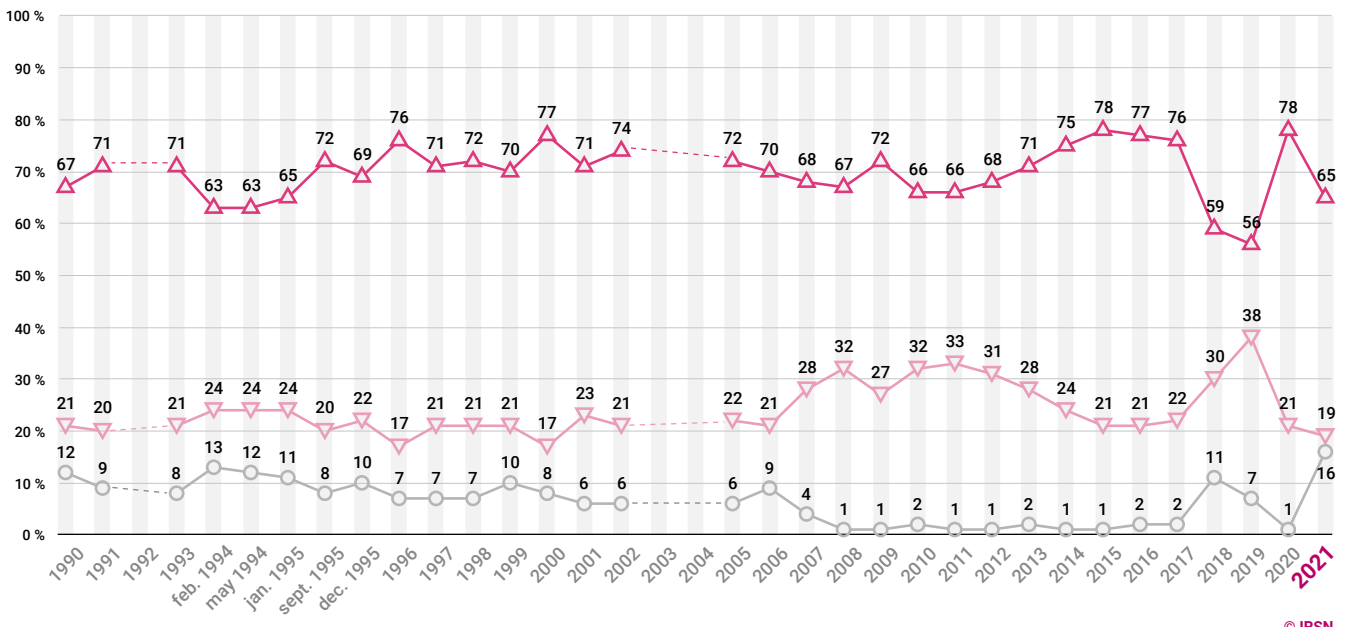
15 – IRSN (Institute for Radiological Protection and Nuclear Safety)*



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

© IRSN

16 – Journalists



© IRSN

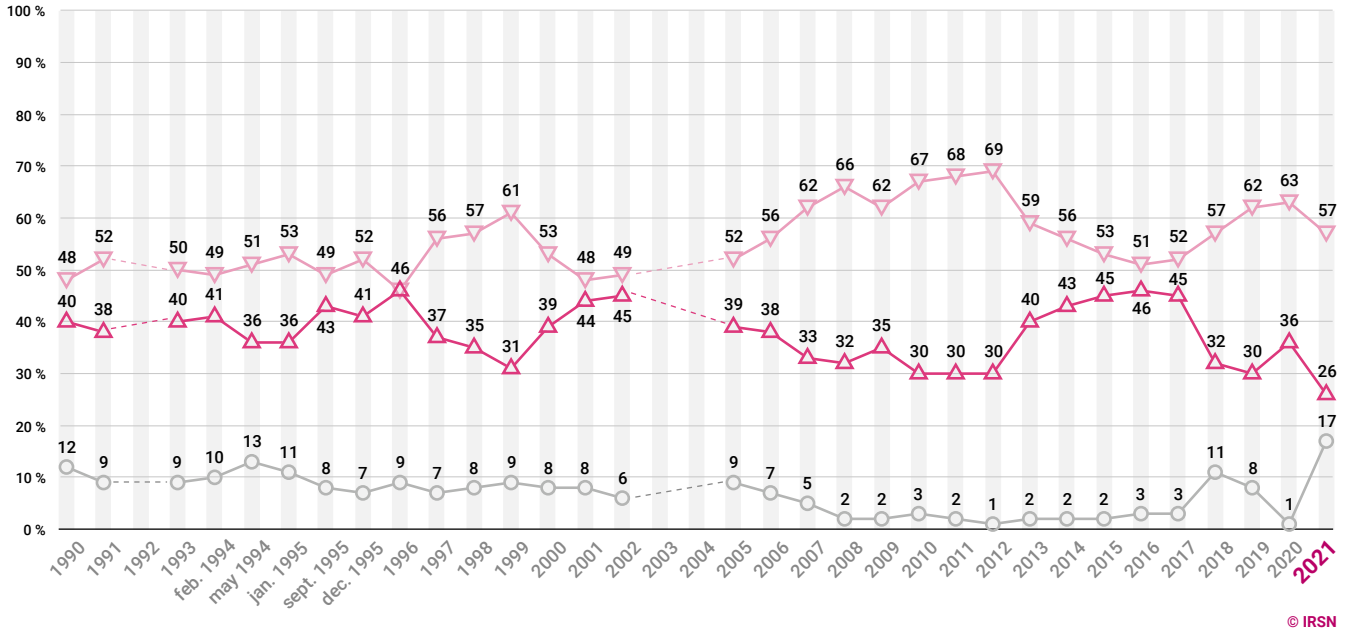
▽ YES ▲ NO ○ DON'T KNOW

QUESTION N°11
(SERIES)

In the field of nuclear industry and energy
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are technically competent?

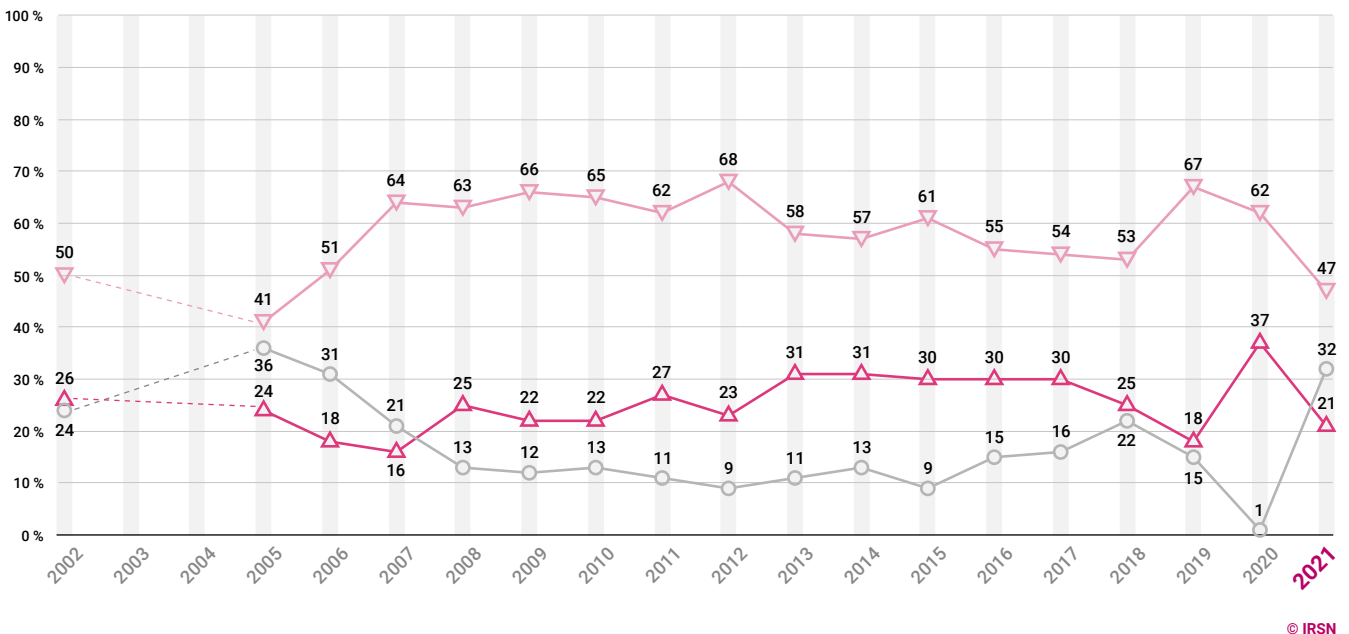
EVOLUTION OF THE RESULTS
1990 - 2021

17 - Physicians



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



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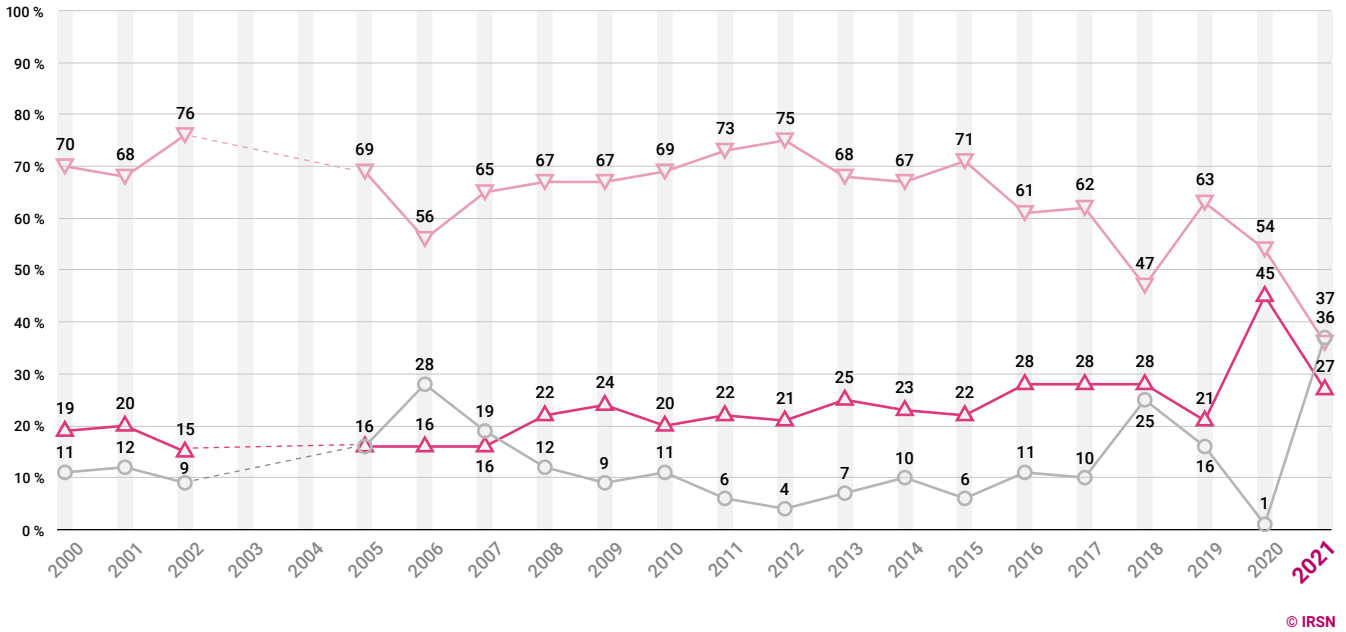
▽ YES ▲ NO ○ DON'T KNOW

QUESTION N°11
(SERIES)

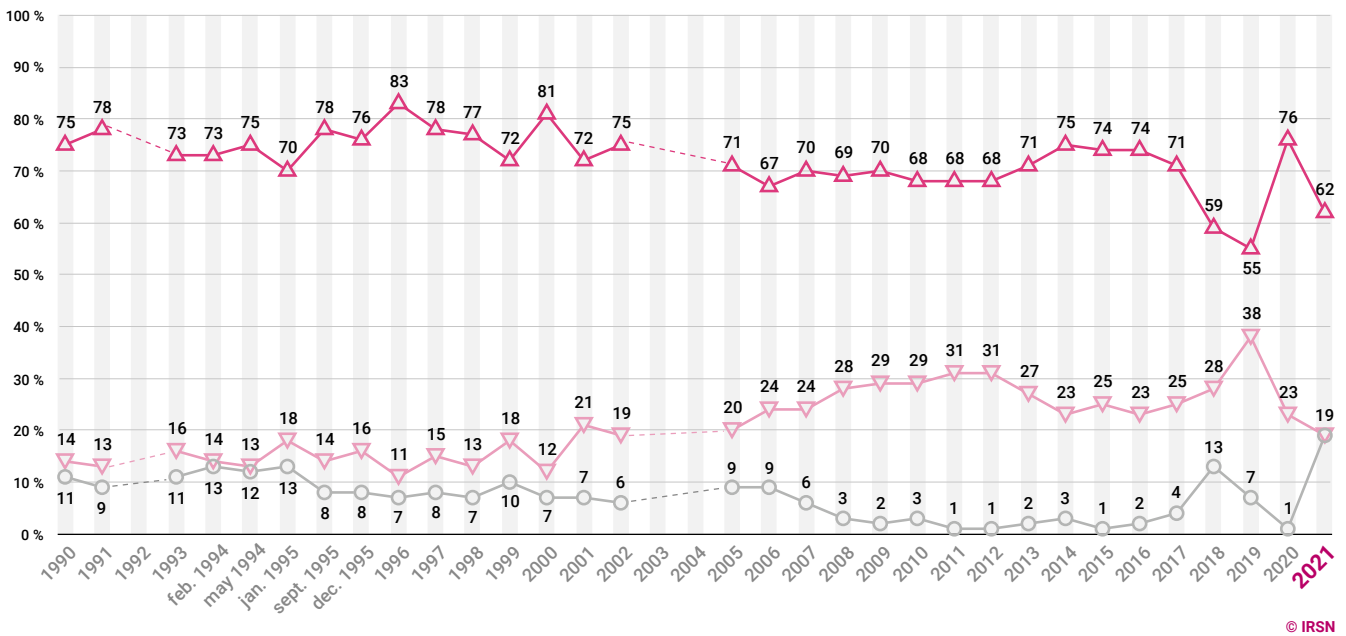
In the field of nuclear industry and energy
do you think the following actors and organizations
are technically competent?

EVOLUTION OF THE RESULTS
1990 - 2021

19 – ORANO (formerly AREVA)



20 – Labor Unions



▽ YES ▲ NO ○ DON'T KNOW

QUESTION N°12

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

NOVEMBER
2021

THE CNRS (NATIONAL CENTER FOR SCIENTIFIC RESEARCH)



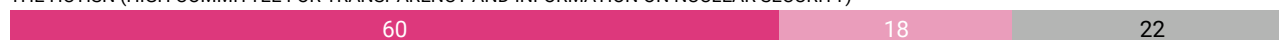
IRSN (INSTITUTE FOR RADIOLOGICAL PROTECTION AND NUCLEAR SAFETY)



ASN (NUCLEAR SAFETY AUTHORITY)



THE HCTISN (HIGH COMMITTEE FOR TRANSPARENCY AND INFORMATION ON NUCLEAR SECURITY)



CEA (ATOMIC ENERGY COMMISSION)



THE ACADEMY OF SCIENCES



ANDRA (NATIONAL AGENCY FOR RADIOACTIVE WASTE MANAGEMENT)



PHYSICIANS



OPECST (PARLIAMENTARY OFFICE FOR THE EVALUATION OF SCIENTIFIC AND TECHNOLOGICAL CHOICES)



INTERNATIONAL AGENCIES (IAEA, NEA, ETC.)



EDF



CONSUMER PROTECTION ORGANIZATIONS



THE CLI (LOCAL INFORMATION COMMISSIONS)



ENVIRONMENTAL NGOS



ORANO (FORMERLY AREVA)



LOCAL ELECTED OFFICIALS



THE GOVERNMENT



JOURNALISTS



LABOR UNIONS



POLITICIANS



■ YES ■ NO ■ DON'T KNOW

© IRSN

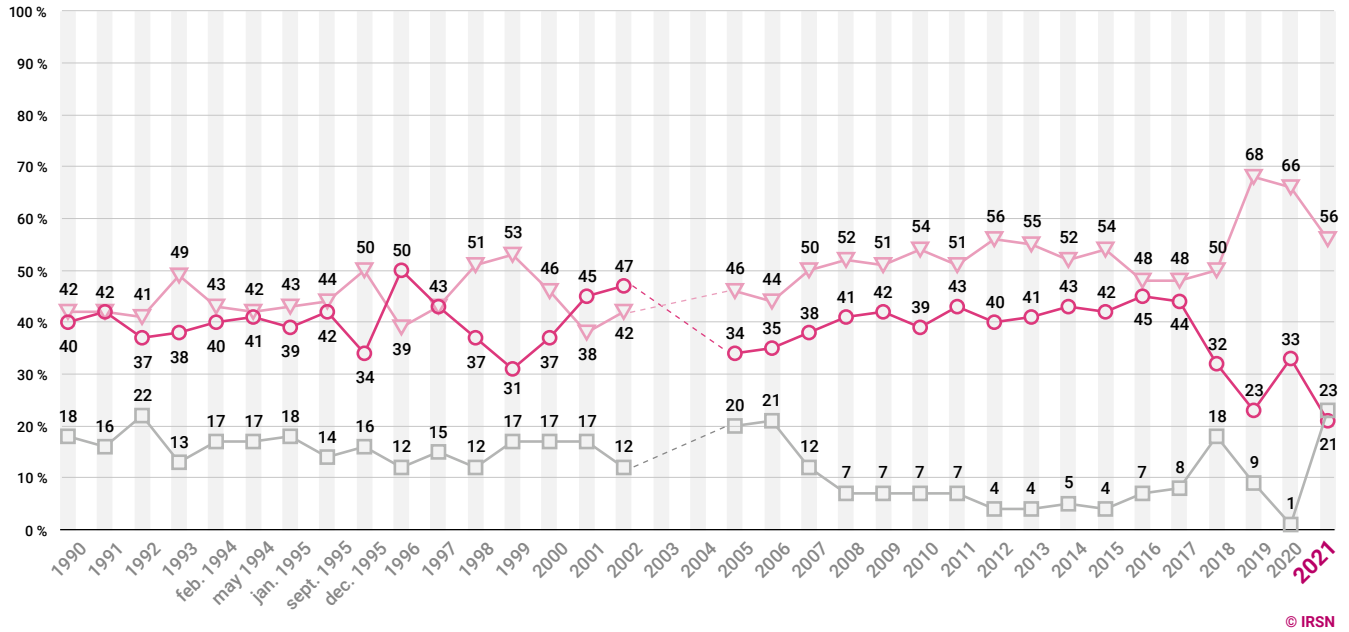
QUESTION N°12
(SERIES)

In the field of nuclear industry and energy,
do you think the following actors and organizations
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EVOLUTION OF THE RESULTS
1990 - 2021

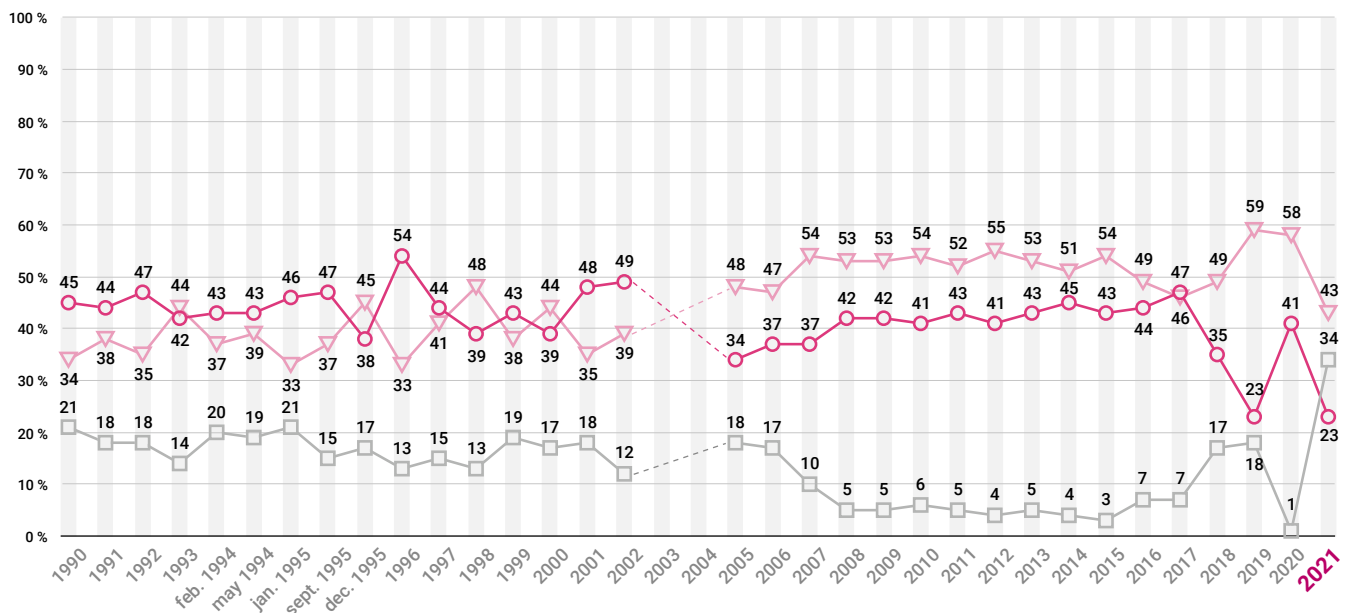
In 2019, the title of the question was changed from "Do the following information sources tell you the truth about nuclear power in France?" to "In the field of industry and nuclear energy, do you think the following actors and organizations are trustworthy sources of information?".

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.)".

▽ YES ○ NO □ DON'T KNOW

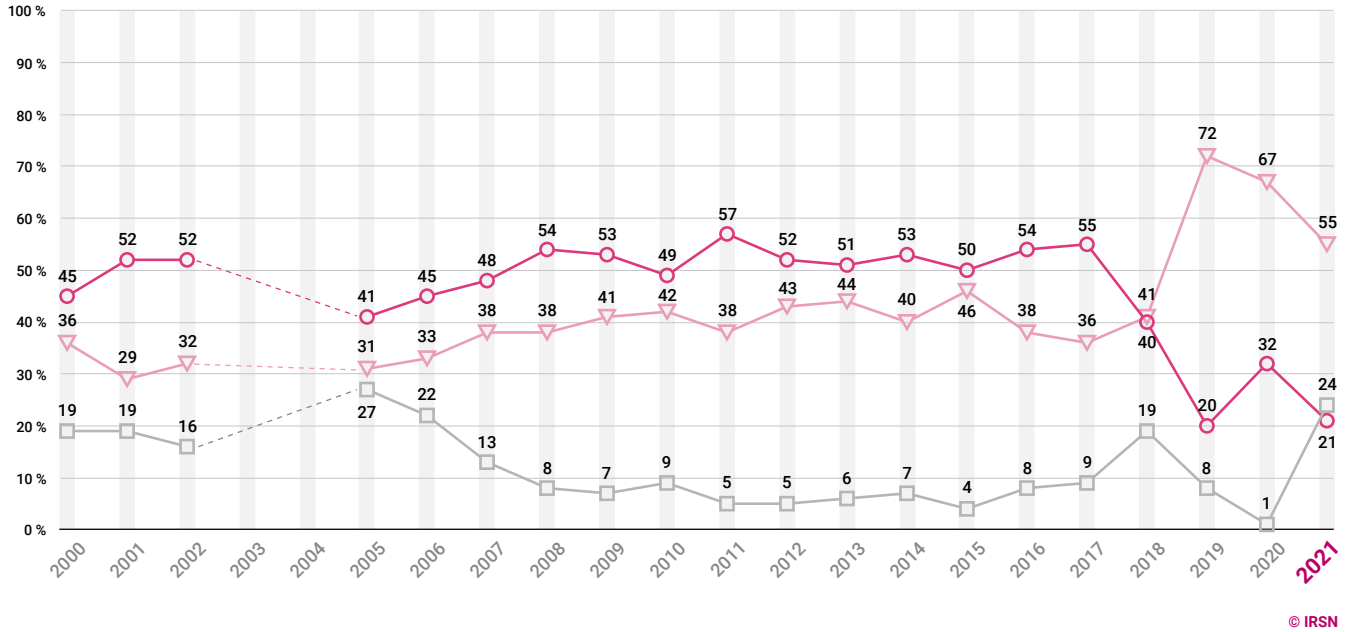
QUESTION N°12
(SERIES)

In the field of nuclear industry and energy,
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are trustworthy sources of information?

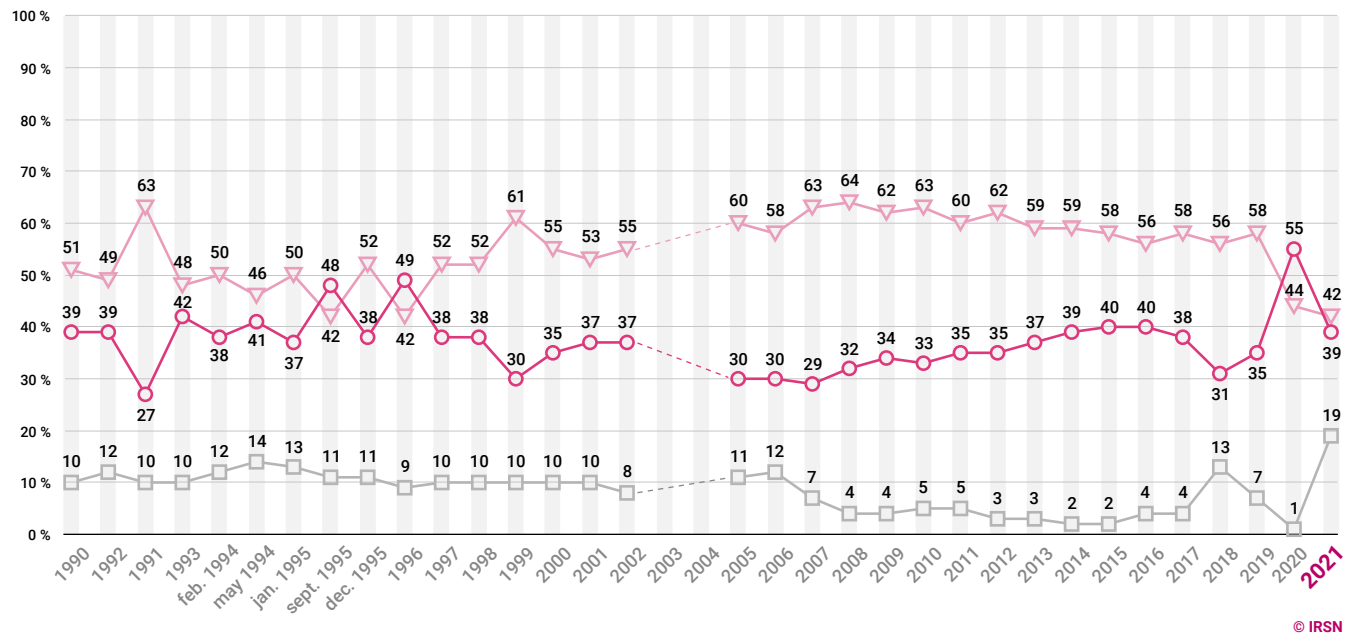
EVOLUTION OF THE RESULTS
1990 - 2021

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?"

3 – ANDRA (National agency for radioactive waste management)



4 – Consumer protection Organizations



▽ YES ○ NO □ DON'T KNOW

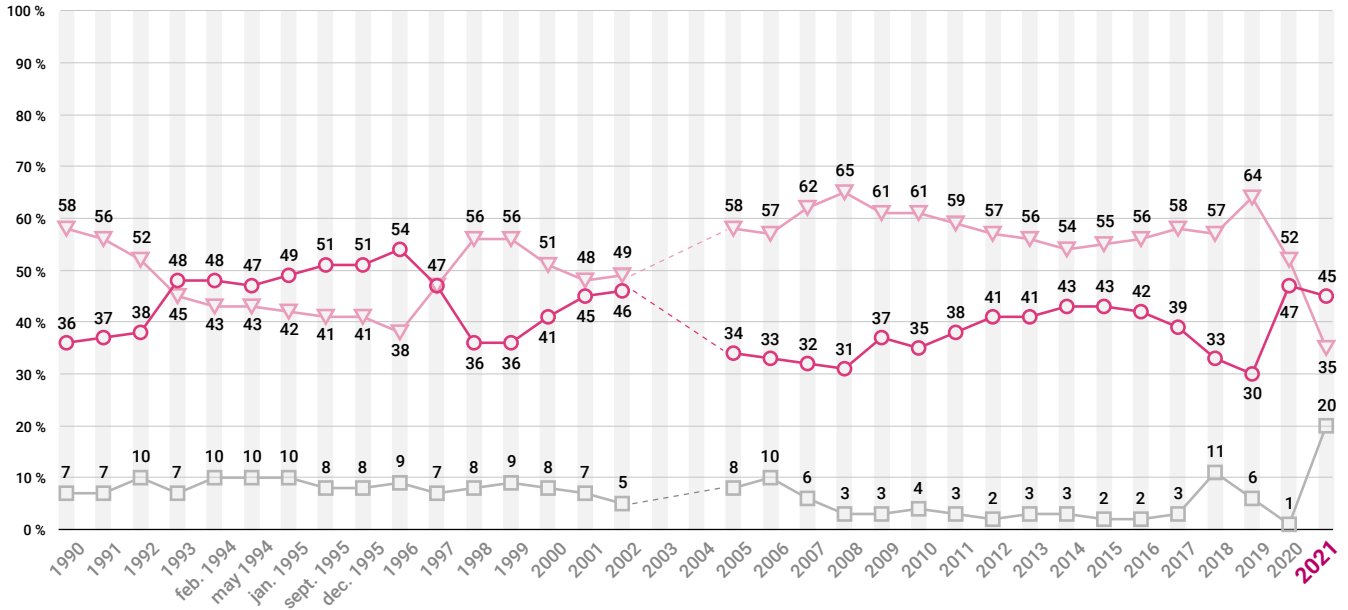
QUESTION N°12
(SERIES)

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
1990 - 2021

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?"

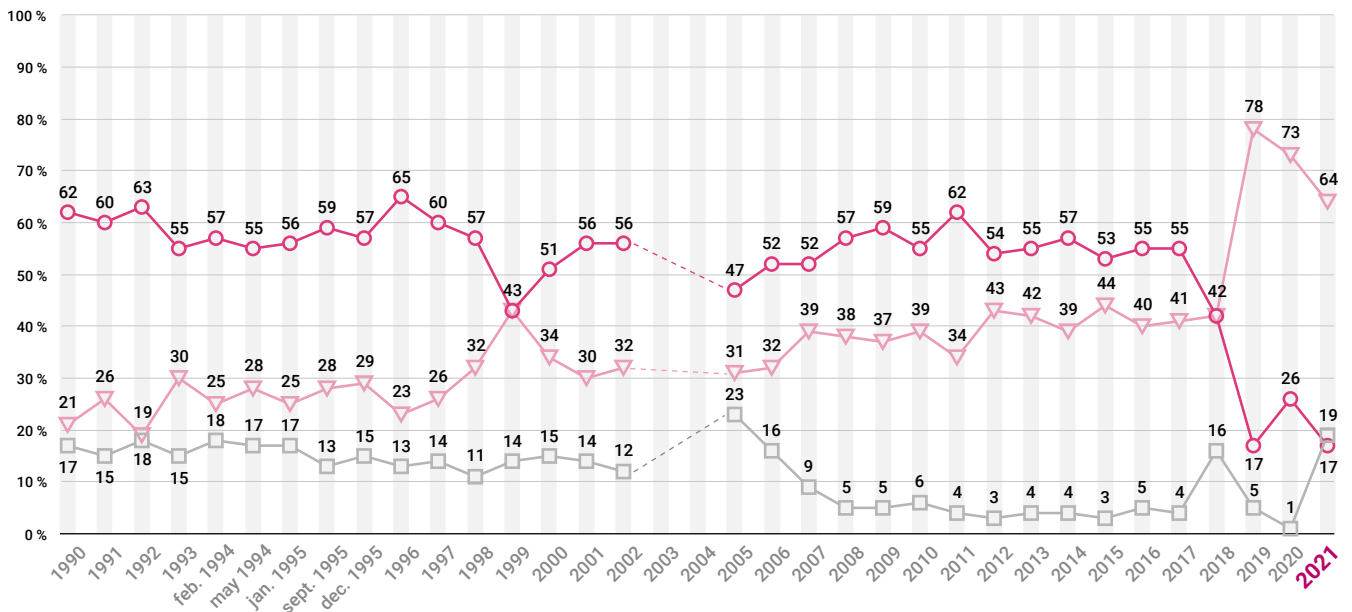
5 – Environmental NGOs*



© IRSN

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

6 – ASN (Nuclear Safety Authority)*



© IRSN

* 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".

▽ YES ○ NO □ DON'T KNOW

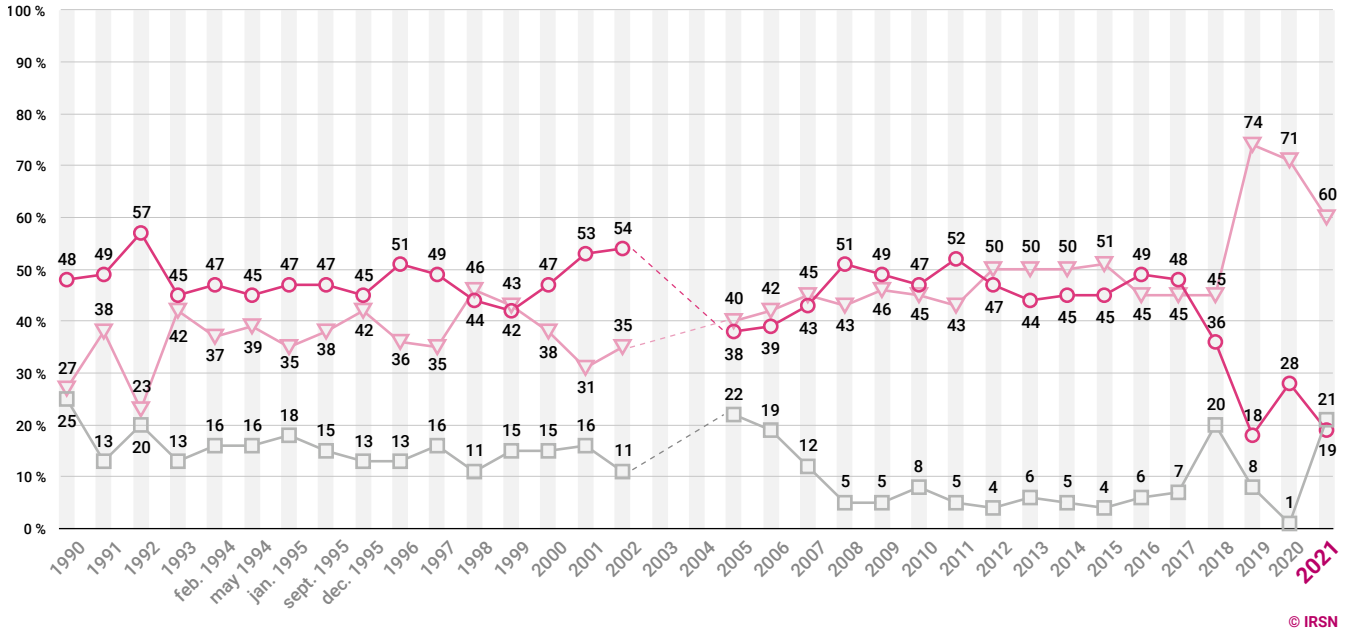
QUESTION N°12
(SERIES)

In the field of nuclear industry and energy,
do you think the following actors and organizations
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EVOLUTION OF THE RESULTS
1990 - 2021

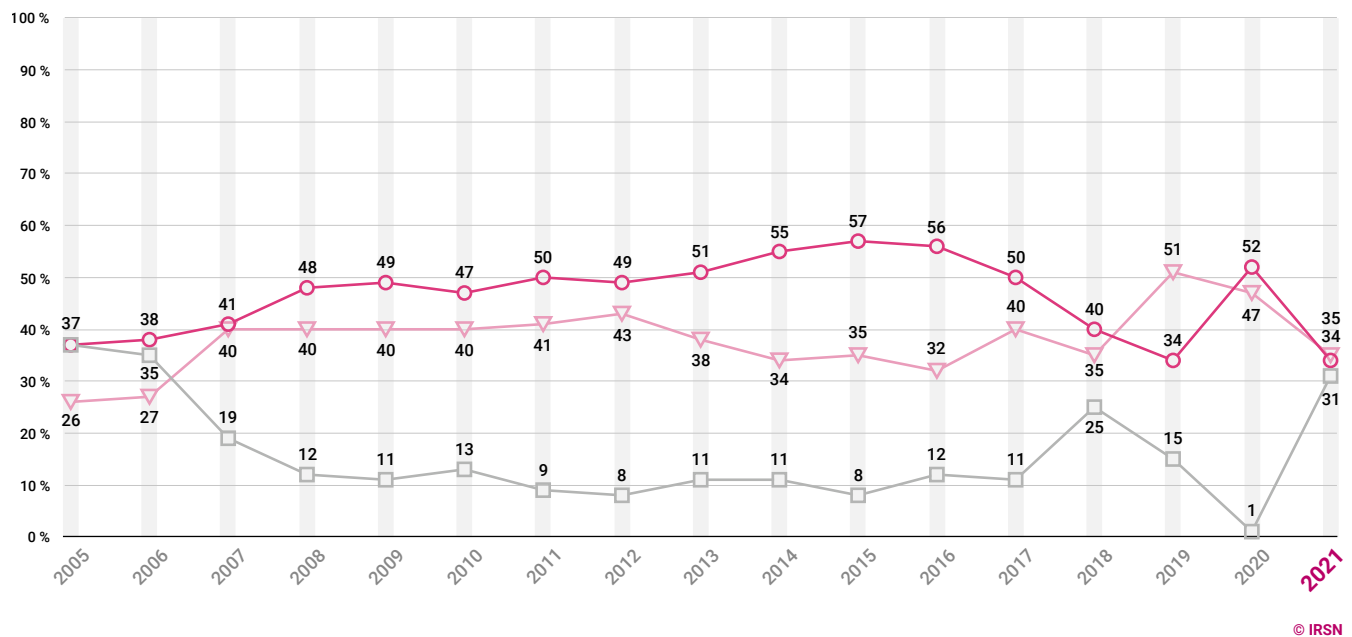
In 2019, the title of the question was changed from "Do the following information sources tell you the truth about nuclear power in France?" to "In the field of industry and nuclear energy, do you think the following actors and organizations are trustworthy sources of information?"

7 – CEA (Atomic energy commission)



© IRSN

8 – The CLI (Local Information Commissions)



© IRSN

▽ YES ○ NO □ DON'T KNOW

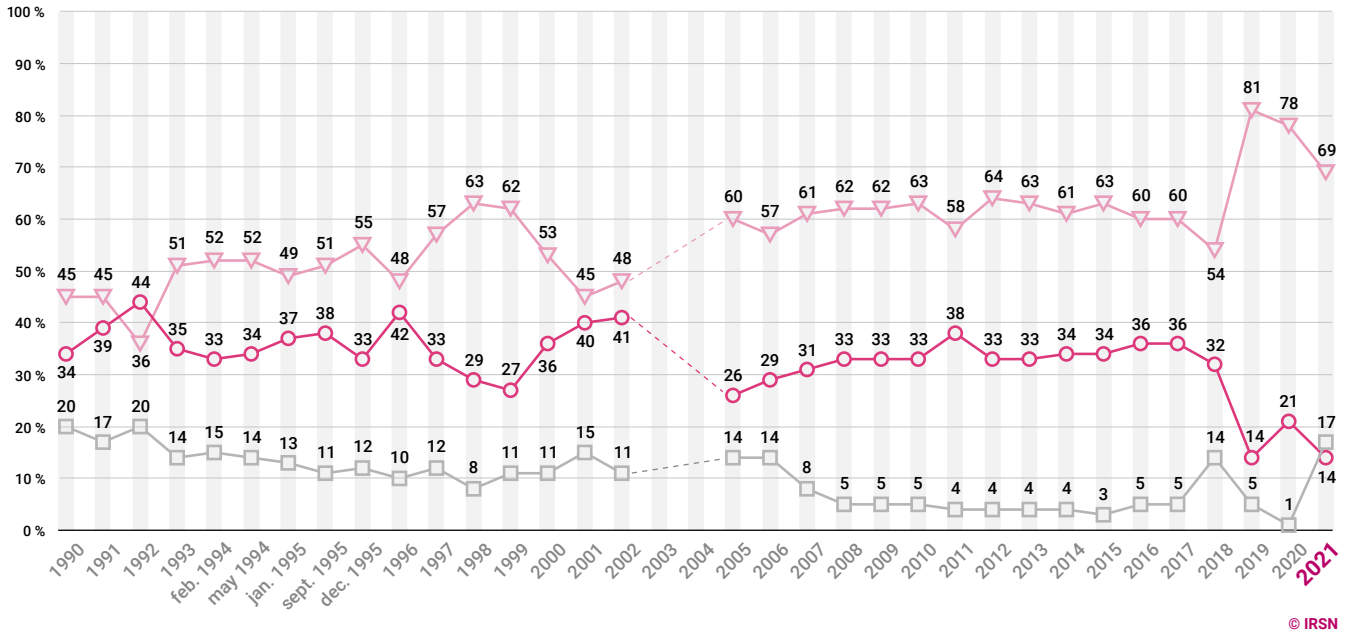
QUESTION N°12
(SERIES)

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

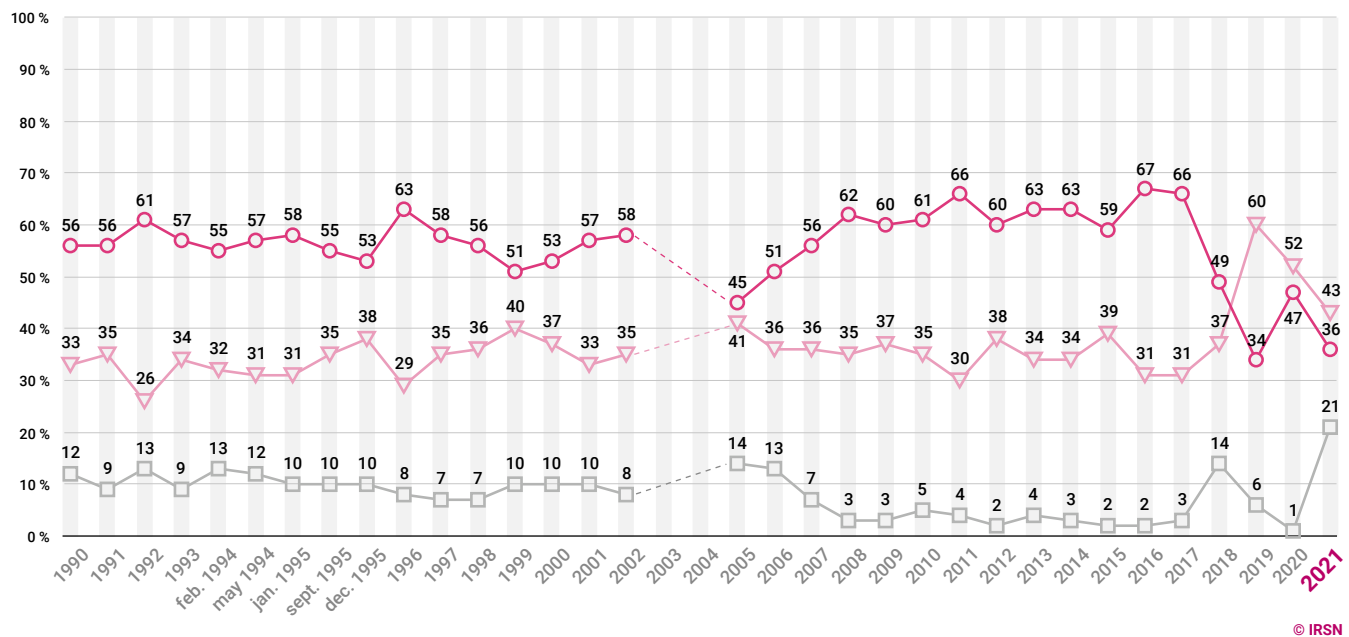
EVOLUTION OF THE RESULTS
1990 - 2021

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?"

9 – The CNRS (National Center for Scientific Research)



10 – EDF



▽ YES ○ NO □ DON'T KNOW

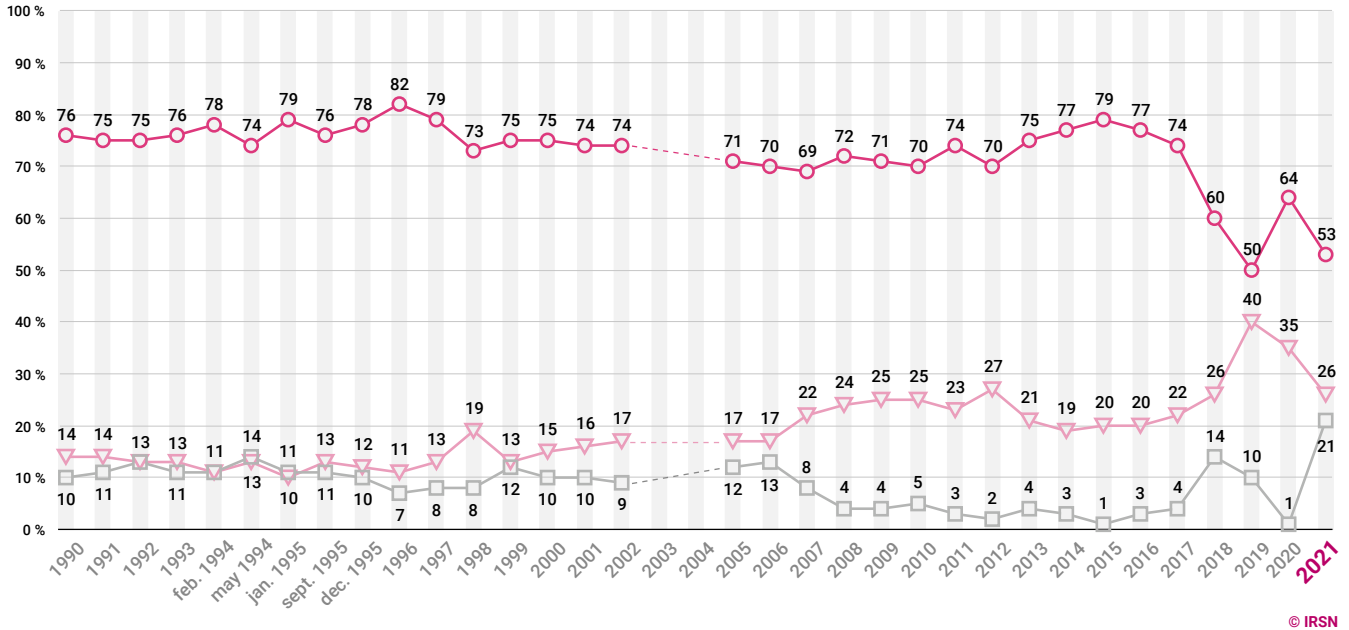
QUESTION N°12
(SERIES)

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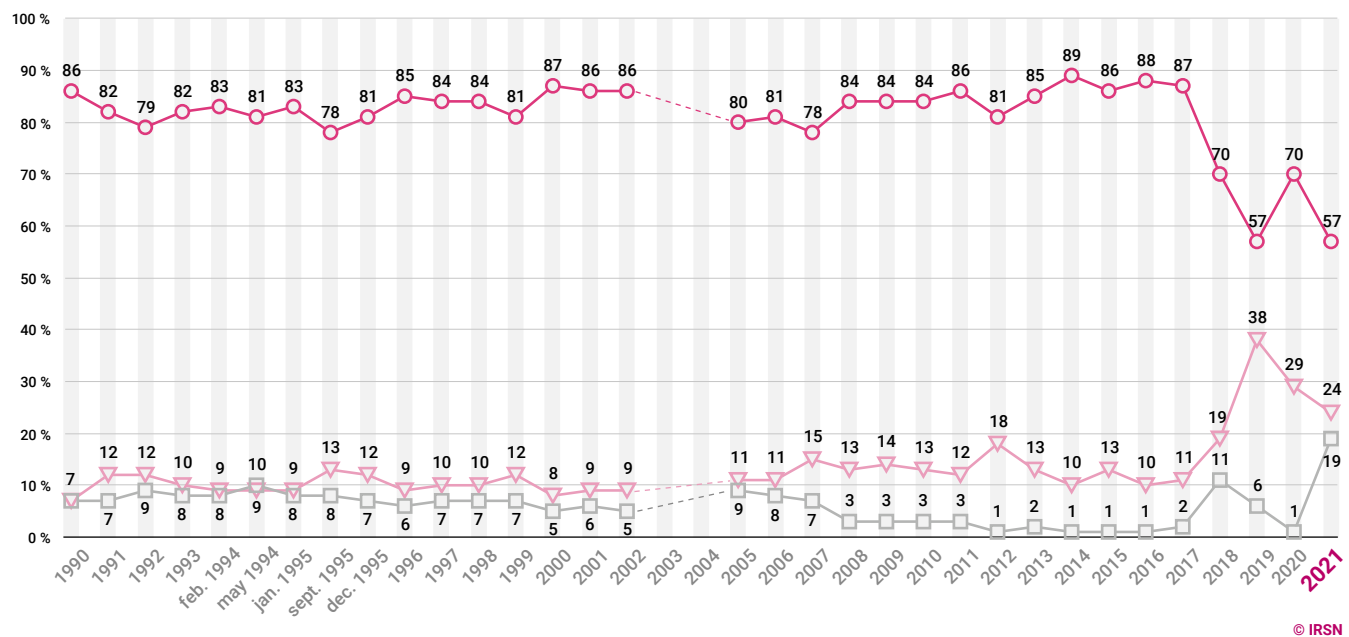
EVOLUTION OF THE RESULTS
1990 - 2021

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?"

11 – Local elected officials



12 – The government



▽ YES ○ NO □ DON'T KNOW

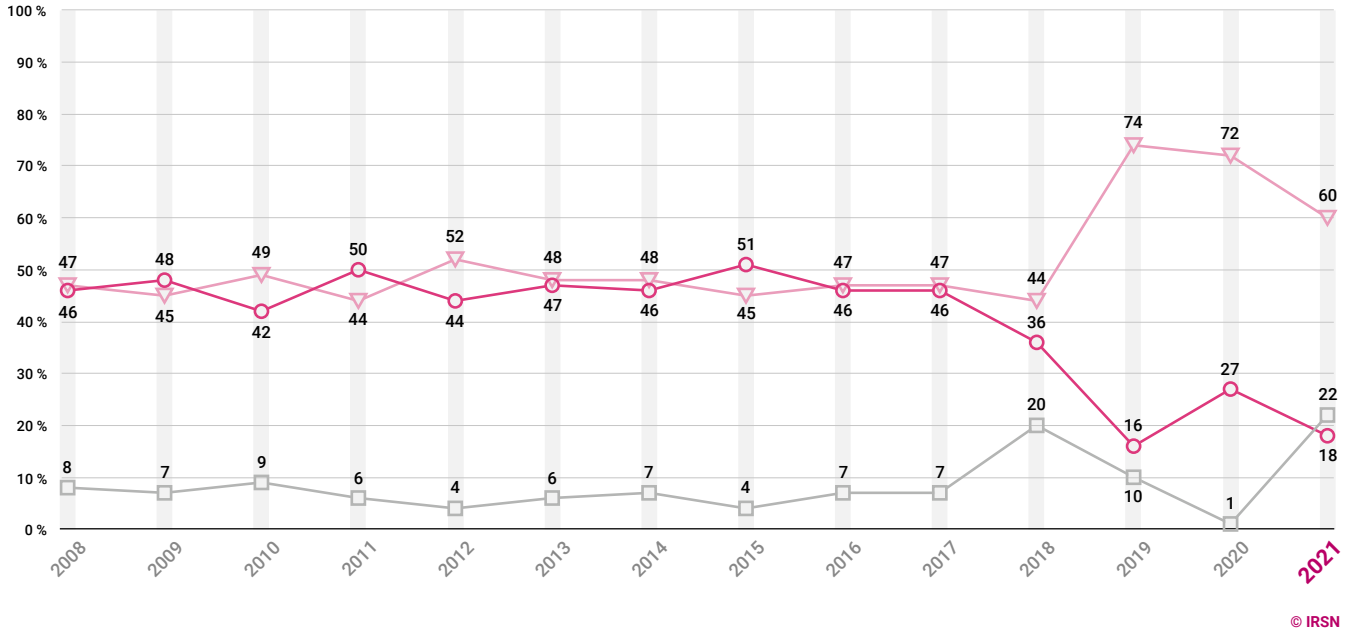
QUESTION N°12
(SERIES)

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

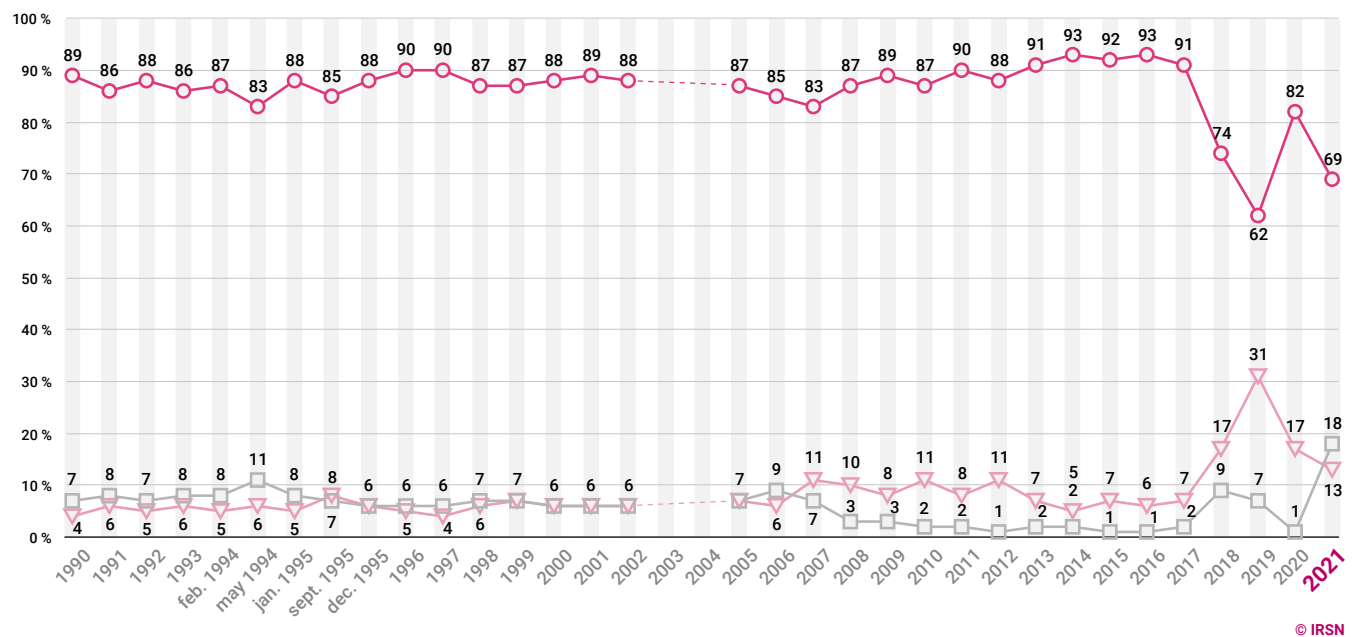
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1990 - 2021

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?"

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



14 – Politicians



▽ YES ○ NO □ DON'T KNOW

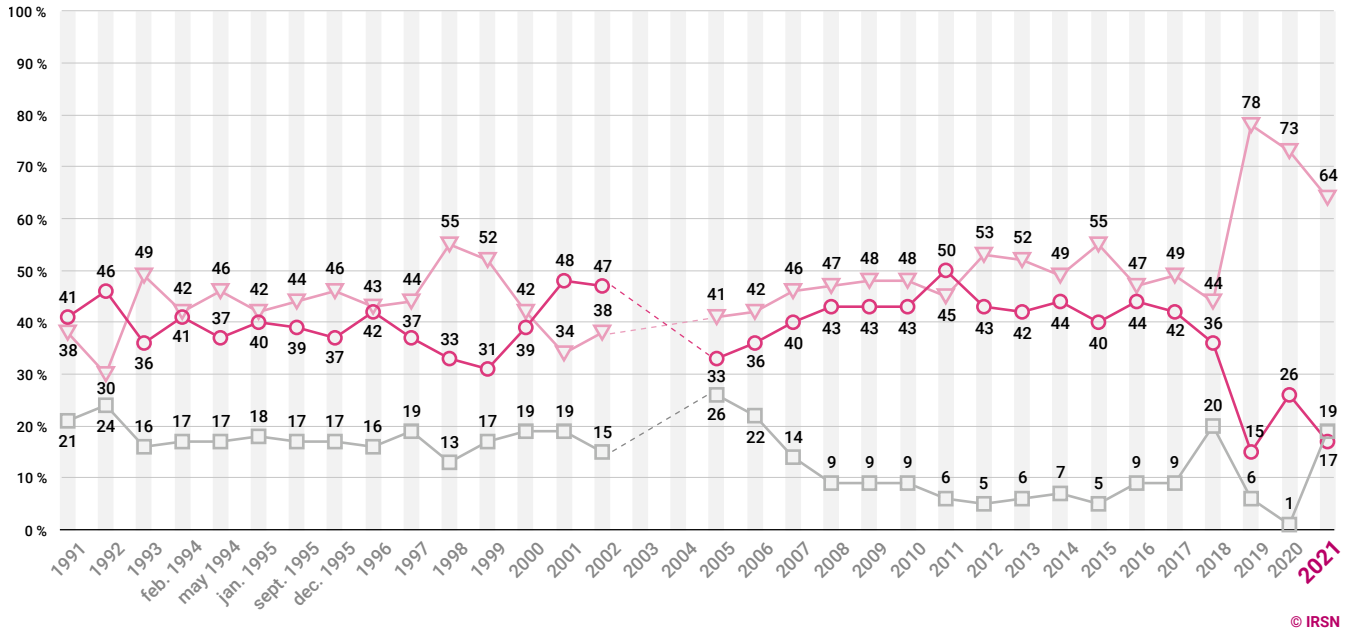
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1990 - 2021

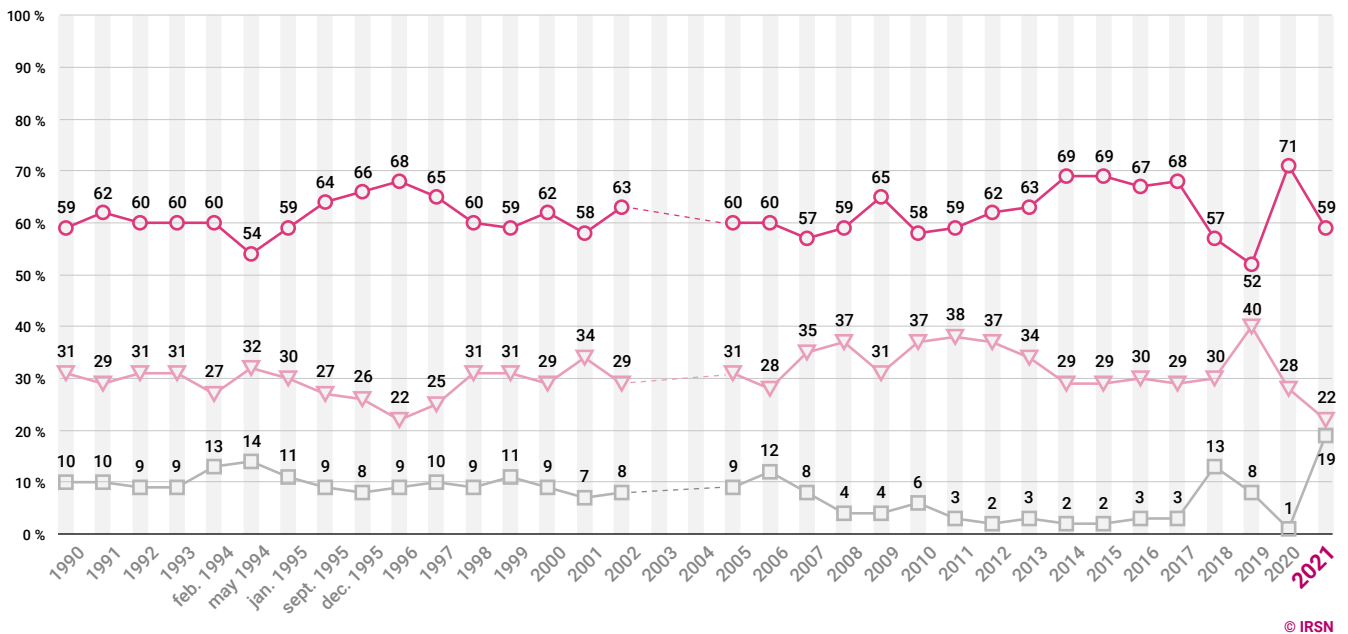
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15 – IRSN (Institute for Radiological Protection and Nuclear Safety)*



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

16 – Journalists



▽ YES ○ NO □ DON'T KNOW

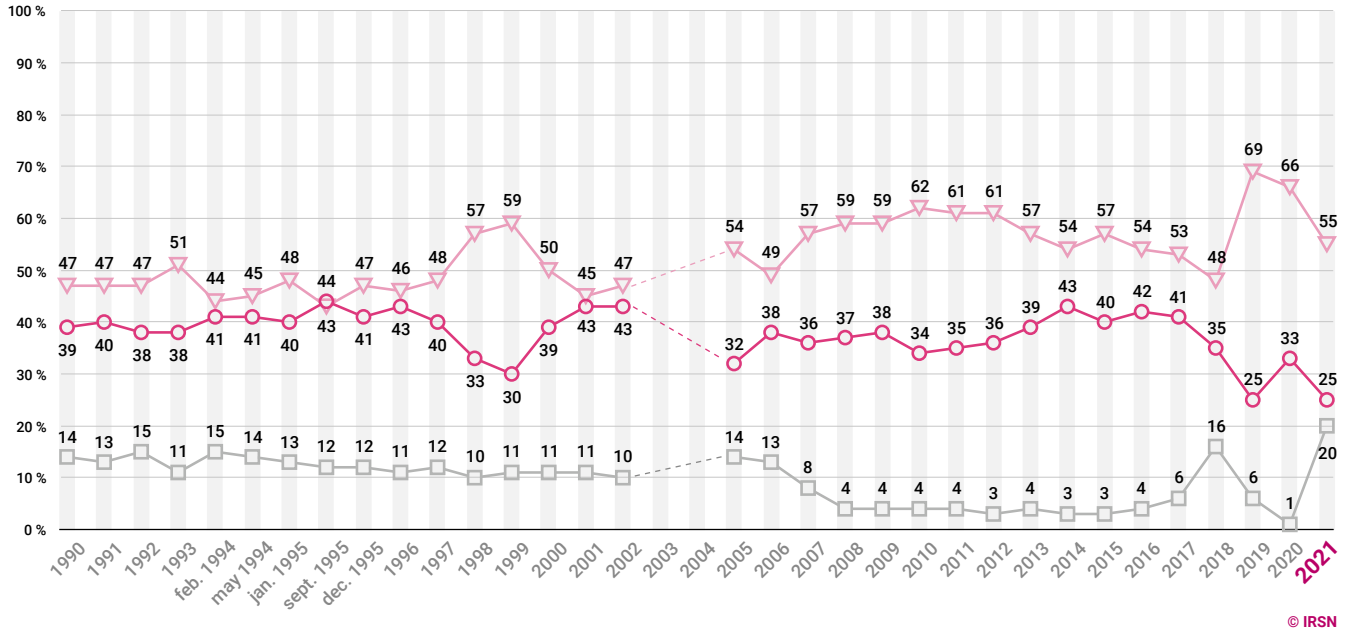
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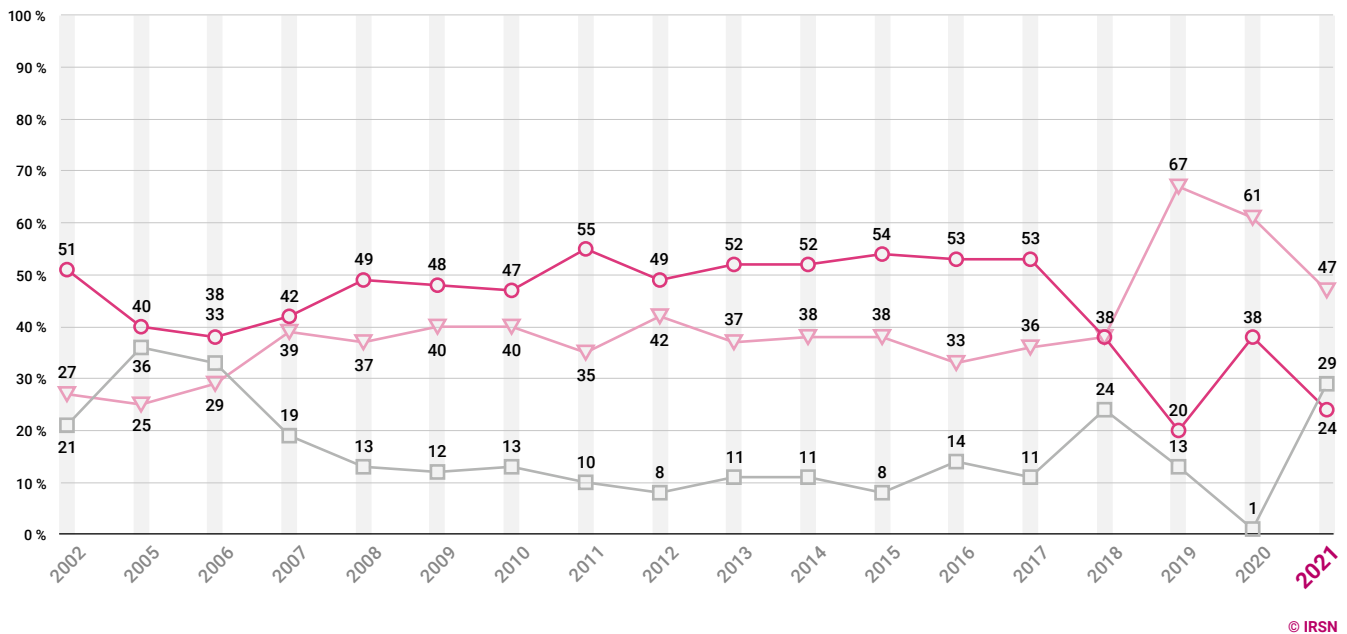
In 2019, the title of the question was changed from "Do the following information sources tell you the truth about nuclear power in France?" to "In the field of industry and nuclear energy, do you think the following actors and organizations are trustworthy sources of information?"

17 – Physicians



© IRSN

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



© IRSN

▽ YES ○ NO □ DON'T KNOW

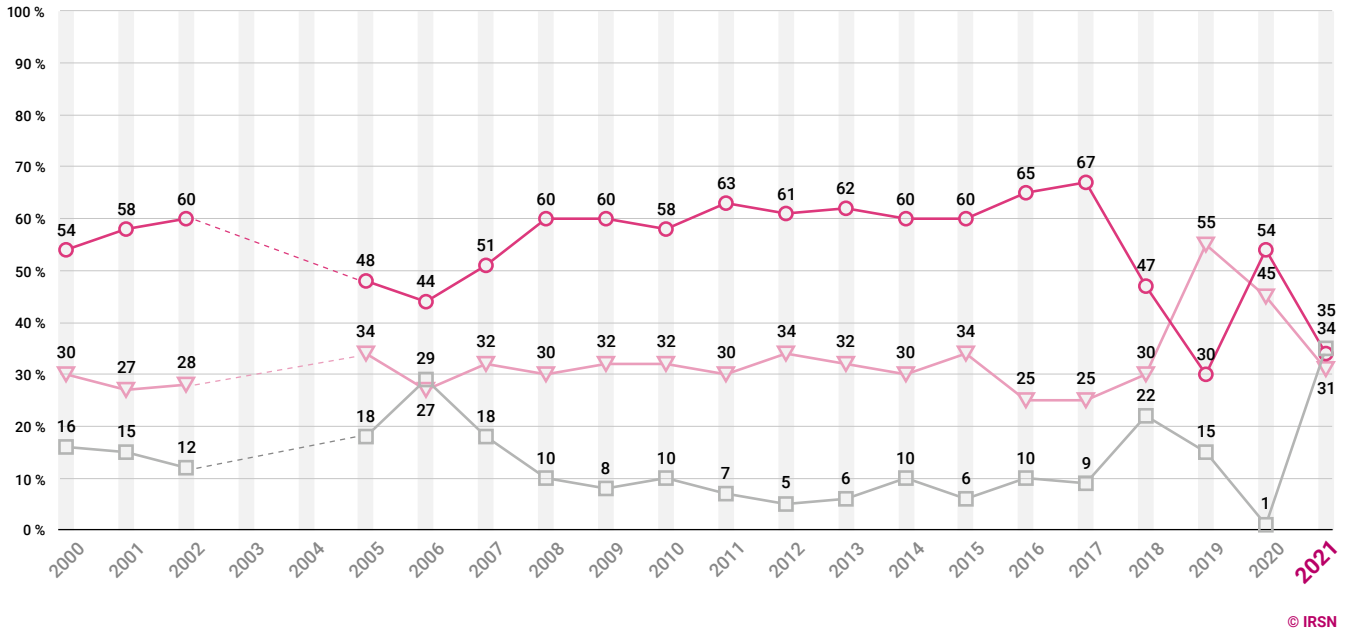
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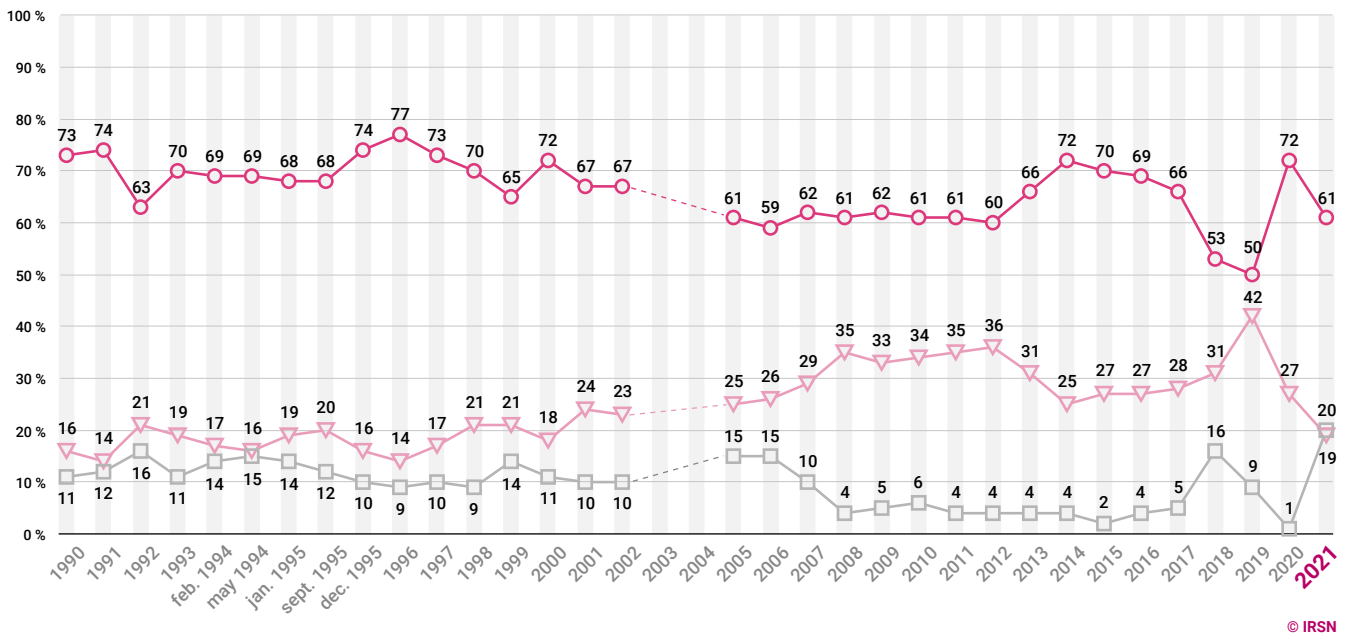
EVOLUTION OF THE RESULTS
1990 - 2021

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?"

19 – ORANO (formerly AREVA)



20 – Labor Unions



▽ YES ○ NO □ DON'T KNOW

QUESTION N°11

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

	YES	NO	DON'T KNOW
The CNRS (National Center for Scientific Research)	76	11	13
ASN (Nuclear Safety Authority)	72	12	16
IRSN (Institute for Radiological Protection and Nuclear Safety)	72	12	16
CEA (Atomic energy commission)	69	13	18
ANDRA (National agency for radioactive waste management)	66	14	20
The HCTISN (High committee for transparency and information on nuclear security)	66	14	20
The Academy of Sciences	59	19	22
EDF	57	25	18
Physicians	57	26	17
OPECST (Parliamentary Office for the Evaluation of Scientific and Technological Choices)	47	21	32
International agencies (IAEA, NEA, etc.)	46	19	35
Consumer protection organizations	39	41	20
Environmental NGOs	38	44	18
ORANO (formerly AREVA)	36	27	37
The government	33	50	17
The CLI (Local Information Commissions)	31	36	33
Local elected officials	28	53	19
Journalists	19	65	16
Labor Unions	19	62	19
Politicians	15	69	16

QUESTION N°12

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

	YES	NO	DON'T KNOW
The CNRS (National Center for Scientific Research)	69	14	17
ASN (Nuclear Safety Authority)	64	17	19
IRSN (Institute for Radiological Protection and Nuclear Safety)	64	17	19
CEA (Atomic energy commission)	60	19	21
The HCTISN (High committee for transparency and information on nuclear security)	60	18	22
The Academy of Sciences	56	21	23
Physicians	55	25	20
ANDRA (National agency for radioactive waste management)	55	21	24
OPECST (Parliamentary Office for the Evaluation of Scientific and Technological Choices)	47	24	29
EDF	43	36	21
International agencies (IAEA, NEA, etc.)	43	23	34
Consumer protection organizations	42	39	19
Environmental NGOs	35	45	20
The CLI (Local Information Commissions)	35	34	31
ORANO (formerly AREVA)	31	34	35
Local elected officials	26	53	21
The government	24	57	19
Journalists	22	59	19
Labor Unions	19	61	20
Politicians	13	69	18

Until 2019, 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.irsn.fr/graphiques>.

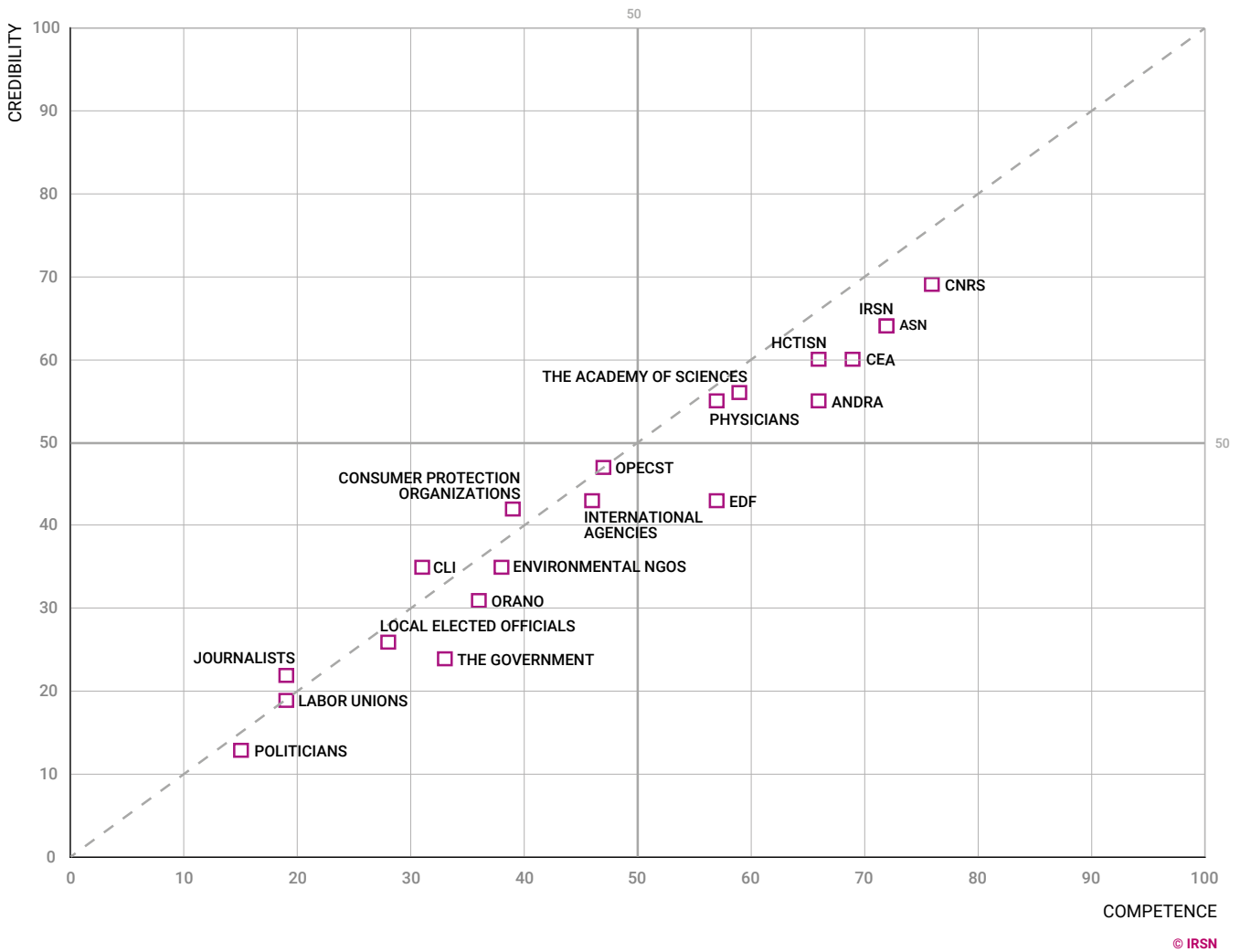
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In the field of nuclear industry and energy
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are technically competent?

QUESTION N°12

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

**NOVEMBER
2021**



Until 2019, 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.irsn.fr/graphiques>.

ANNEXES

154 – 155

Description of the sample

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Questionnaire

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Surveys

ANNEXES

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
Less than 20,000 inhab.	22.0	22.0
Between 20,000 and 100,000 inhab.	12.1	12.1
More than 100,000 inhab.	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	14
Private sector employee	37
Self-employed	6
Unemployed	3
Inactive	40

EDUCATION LEVEL**What is the highest degree you have obtained?**

Less than a bachelor's degree	22
Bachelor's degree	25
Bachelor's degree and 2 years of higher education	21
Bachelor's degree and more than 2 years of higher education	32
Don'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)	23
Life sciences, health (medicine, paramedics, pharmacy, biology)	13
Humanities and social sciences (literature, psychology, sociology, arts)	18
Other	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?**

Subtotal Left	24
Lutte Ouvrière	1
The NPA (New Anti-Capitalist Party)	1
The Communist Party	1
La France Insoumise	4
The Socialist Party	8
Génération.s	1
Europe Écologie Les Verts (Green Party)	7
Another green movement	1
Subtotal Centre	17
La République en Marche	13
Modem	3
UDI	1

ANNEXES

Description of the sample

	(%)
Subtotal Right	23
Les Républicains (formerly UMP)	8
Debout la France	2
Le Rassemblement National (formerly Front National)	13
No party	30
Don't Know/No answer	6

INCOME LEVEL

What is your monthly net income of your household?

Subtotal less than 2000 € monthly	34
Less than 1,000 € monthly	9
1,000 € to 1,499 € monthly	12
1,500 € to 1,999 € monthly	13
Subtotal 2000 € to 4000 € monthly	41
2,000 € to 2,999 € monthly	24
3,000 € to 3,999 € monthly	17
Subtotal 4000 € or more monthly	18
4,000 € to 5,999 € monthly	11
5,000 € to 6,999 € monthly	4
6,000 € or more monthly	3
Don't Know/No answer	7

SCIENCE MAGAZINES READING

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

Subtotal Often / sometimes	42
Often	10
Sometimes	32
Subtotal Rarely / Never	58
Rarely	31
Subtotal Yes	73
Never	27

POLITICAL STANCE

Can you tell me where you stand politically?

Subtotal Left	28
Radical left	3
Left	14
Center-left	11
Neither left nor right	41
Subtotal right	31
Center-right	15
Right	9
Far-right	7

2017 FRENCH PRESIDENTIAL ELECTION
– FIRST ROUND

In the first round of the 2017 presidential election, which candidate did you vote for?

	(%)
Nathalie Arthaud	1
Philippe Poutou	1
Jean-Luc Mélenchon	11
Benoît Hamon	8
Emmanuel Macron	23
Jean Lassalle	1
Jacques Cheminade	0
François Fillon	10
Nicolas Dupont-Aignan	3
François Asselineau	1
Marine Le Pen	15
You voted blank	7
You voted invalid	2
You abstained	7
You were not registered to vote	9

RELIGION

Do you regularly practice a religion?

Yes	16
No	84

DO YOU LIVE WITHIN 20 KM...?

of a nuclear power plant?

Yes	13
No	87
Don't Know/No answer	0

of another nuclear facility?

Yes	10
No	89
Don't Know/No answer	1

of a major chemical facility?

Yes	18
No	81
Don't Know/No answer	1

ANNEXES

Questionnaire

Gender

- 1 Man
- 2 Woman

Record age of the interviewee**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 East Paris Basin
- 2 North
- 3 West Paris Basin
- 4 East
- 5 South-West
- 6 West
- 7 South-East
- 8 Mediterranean area
- 9 Île-de-France

Size of urban area

- 1 < 2,000 inhab.
- 2 2,000 - 19,999 inhab.
- 3 20,000 - 100,000 inhab.
- 4 > 100,000 inhab.
- 5 Paris metropolitan 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 Crime
- 2 Nuclear risks
- 3 Unemployment
- 4 Extreme poverty and exclusion
- 5 Terrorism
- 6 Health
- 7 Climate imbalance
- 8 The global geopolitical instability (migrant crisis, tensions between countries, etc.)
- 9 Don't Know/No answer

Asked only of people who answered "Health" to the previous question (in first or second).**And regarding health, what preoccupies you the most?**

- 1 The consequences of the Covid-19 pandemic, for your personal health, the health of your friends and family or the French in general
- 2 The economic and social consequences of the Covid-19 pandemic, for yourself, your friends and family or the French in general
- 3 Access to healthcare (financial costs, availability of professionals near you)
- 4 Your personal health or for the health of your friends and family independently from the Covid-19 pandemic
- 5 Other
- 6 Don'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 Don'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 Don't Know/No answer

- 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 Heat waves
- 20 Radiotherapy accidents
- 21 Nanoparticles
- 22 Endocrine disruptors
- 23 Cancer
- 24 Marine flooding (temporary flooding caused by the sea)
- 25 Obesity
- 26 Domestic accidents
- 27 Alcohol
- 28 Pandemics (global epidemics)
- 29 Tobacco
- 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 Don't Know/No answer

ANNEXES**Questionnaire**

- 1 Radioactive waste
- 2 AIDS
- 3 Air pollution
- 4 Nuclear power plants
- 5 Water pollution
- 6 Food products safety
- 7 Chemical waste
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- 25 Obesity
- 26 Domestic accidents
- 27 Alcohol
- 28 Pandemics (global epidemics)
- 29 Tobacco
- 30 Traffic accidents
- 31 Drugs
- 32 High-voltage lines

Have you or the ones close to you been personally exposed to these risks?

- 1 Yes
- 2 No
- 3 Don't Know/No answer

- 1 AIDS
- 2 Air pollution
- 3 Floods
- 4 Terrorism
- 5 Indoor Radon
- 6 Medical radiographies
- 7 Forest fires
- 8 Noise pollution
- 9 Radiotherapy accidents
- 10 Marine flooding (temporary flooding caused by the sea)
- 11 Tobacco
- 12 Domestic accidents
- 13 Traffic accidents
- 14 Alcohol
- 15 Drugs

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 Don't Know/No answer

- 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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- 28 Pandemics (global epidemics)
- 29 Tobacco
- 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 Don't Know/No answer
- 1 Understandable information on the risks of installations must be made available to everyone
 - 2 In their positions, 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 reactive to unforeseen situations
- 5 They pay attention to the concerns of the civil society
- 6 They can communicate in a way that everyone understands
- 7 Don'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 Don't Know/No answer

Here are three sentences regarding 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 Don't Know/No answer
- 1 When it comes to risk, it is normal to take every precaution even when the scientists only have doubts
 - 2 We must be certain of the scientific experts' positions before informing the public
 - 3 Policy makers don't take enough into account the positions of scientific experts

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 Don't Know/No answer
- 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

ANNEXES

Questionnaire

Since the start of the 2020 coronavirus epidemic, the government has relied on input from a scientific Council to make decisions. In your opinion, is this a good thing?

- 1 Yes, definitely
- 2 Yes, somewhat
- 3 No, not really
- 4 No, not at all
- 5 Don't Know/No answer

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 Don't Know/No answer

Would you be willing to live near...?

- 1 Yes
- 2 No
- 3 Don't Know/No answer

- 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 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 flooding zone (temporary flooding caused by the sea)

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 fit than me
- 7 Don't Know/No answer

Asked only of people who answered being ready at least once a year to participate in information and consultation meetings about the management of a risky facility near their homes.

If a consultation meeting regarding an installation carrying a risk was organized near you, would you wish to be contacted to participate*?

- 1 Yes, I wish to be contacted
- 2 No, I don't wish to be contacted
- 3 Don'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 Don't Know/No answer

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 Natural gas distribution
- 4 Nuclear power plants
- 5 Dams
- 6 Radioactive waste disposals
- 7 Air transport
- 8 Virus research laboratories
- 9 Other
- 10 Don'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 Don't Know/No answer
- 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 Don't Know/No answer

Here are two propositions regarding access to experts by the public. For each one, please indicate if it seems important to you

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

- 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 know the different possibilities of expressing my opinion
- 2 To have the possibility to discuss with experts
- 3 To be directly impacted by the decision
- 4 To be sure that my opinion will make a difference
- 5 To have all the necessary information to forge my opinion
- 6 To be sure that I am not manipulated or instrumentalized
- 7 That the media talk more about projects of which one can express their views.
- 8 To notice that other around me are doing the same thing
- 9 None of the above
- 10 Don't know/no answer

ANNEXES

Questionnaire

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.

- 1 Yes, definitely
- 2 Yes, somewhat
- 3 No, not really
- 4 No, not at all
- 5 Don't Know/No answer

- 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?

- 1 Yes
- 2 No
- 3 No opinion
- 4 Don't know/no answer

- 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 Don't know/no answer

- 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)

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 power (construction, decommissioning, waste)
- 5 The competition with investments in renewable energies
- 6 The emission of greenhouse gas
- 7 Other
- 8 Don'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 Don'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 Don't Know/No answer

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

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 Don'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 Don't Know/No answer

- 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 will cause cancers
- 3 Around nuclear facilities, people are as healthy as elsewhere
- 4 Nuclear sites can 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

ANNEXES

Questionnaire

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 Don't Know/No answer

- 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 Strengthen inspections by competent authorities in the facilities
- 6 Strengthen the ability of citizens to exercise vigilance over the safety of facilities

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 Don't Know/No answer

Do you live within 20 km...

- 1 Yes
- 2 No
- 3 Don't know/No answer

- 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 Haiti earthquake in 2010
- 3 The Chernobyl nuclear power plant accident
- 4 The Xynthia storm of February 2010 in western France
- 5 The tsunamis of December 26th 2004 in the Indian Ocean
- 6 The Fukushima nuclear power plant accident
- 7 The 2003 heat wave in France
- 8 Other
- 9 Don'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 Don'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 Don'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 Don't Know/No answer

- 1 The "Cigeo" project of nuclear waste burial in Bure
- 2 The development of SMRs (Small Modular Reactors)

In general, how satisfied are you with your life?

Scale from 0 ("not satisfied at all") to 10 ("completely satisfied")

- 1 0 - Not satisfied at all
- 2 1
- 3 2
- 4 3
- 5 4
- 6 5
- 7 6
- 8 7
- 9 8
- 10 9
- 11 10 - Completely satisfied

In general, how satisfied are you with your relationships with the ones close to you?

Scale from 0 ("not satisfied at all") to 10 ("completely satisfied")

- 1 0 - Not satisfied at all
- 2 1
- 3 2
- 4 3
- 5 4
- 6 5
- 7 6
- 8 7
- 9 8
- 10 9
- 11 10 - Completely satisfied

How satisfied are you with your health?

Scale from 0 ("not satisfied at all") to 10 ("completely satisfied")

- 1 0 - Not satisfied at all
- 2 1
- 3 2
- 4 3
- 5 4
- 6 5
- 7 6
- 8 7
- 9 8
- 10 9
- 11 10 - Completely satisfied

How do you think life will be in France for the next generation?

Scale from 0 ("much worse than today") to 10 ("much better than today")

- 1 0 - Not satisfied at all
- 2 1
- 3 2
- 4 3
- 5 4
- 6 5
- 7 6
- 8 7
- 9 8
- 10 9
- 11 10 - Completely satisfied

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

(Maximum five words)

Do you have at least one child under 18?

- 1 Yes, one child under 18
- 2 Yes, more than one child under 18
- 3 No
- 4 Don'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 Don't know/No answer

ANNEXES**Questionnaire****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 Don'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 Don'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 Generation.s
- 7 Le Mouvement radical
- 8 Europe Écologie Les Verts (Green Party)
- 9 La République en Marche
- 10 MoDem
- 11 UDI
- 12 Les Républicains (formerly UMP)
- 13 Debout la France
- 14 Le Rassemblement National (formerly Front National)
- 15 Another party
- 16 No party
- 17 Don't know

Can you tell me where you stand politically?

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

In the first round of the 2017 presidential election, which candidate did you vote for?

- 1 Nathalie Arthaud
- 2 Philippe Poutou
- 3 Jean-Luc Mélenchon
- 4 Benoît Hamon
- 5 Emmanuel Macron
- 6 Jean Lassalle
- 7 Jacques Cheminade
- 8 François Fillon
- 9 Nicolas Dupont-Aignan
- 10 François Asselineau
- 11 Marine Le Pen
- 12 You voted blank
- 13 You voted invalid
- 14 You abstained
- 15 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 6,999 € monthly
- 8 6,000 or more € monthly
- 9 Don't know/No answer

Do you regularly practice a religion?

- 1 Yes
- 2 No

Finally, do you have any comments on this questionnaire?

ANNEXES

Surveys

Year	Size of the sample	Type of survey	Polling company
December 1990	1,000	EXCLUSIVE	BVA
June 1991	1,010	EXCLUSIVE	BVA
April 1992	1,014	EXCLUSIVE	BVA
October 1992	951	OMNIBUS	BVA
May 1993	1,022	EXCLUSIVE	BVA
February 1994	944	OMNIBUS	BVA
May 1994	942	OMNIBUS	BVA
January 1995	972	OMNIBUS	BVA
September 1995	1,052	EXCLUSIVE	BVA
December 1995	1,000	EXCLUSIVE	BVA
May 1996	1,009	EXCLUSIVE	BVA
August 1997	1,002	OMNIBUS - TEL	BVA
Nov.- Dec. 1997	1,035	EXCLUSIVE	BVA
October 1998	1,012	EXCLUSIVE	BVA
October 1999	1,015	EXCLUSIVE	BVA
October 2000	1,000	EXCLUSIVE	BVA
November 2001	1,032	EXCLUSIVE	BVA
November 2002	1,082	EXCLUSIVE	BVA
October 2004	1,008	EXCLUSIVE	BVA
November 2005	1,047	EXCLUSIVE	BVA
November 2006	1,042	EXCLUSIVE	BVA
November 2007	1,002	EXCLUSIVE	BVA
December 2008	1,002	EXCLUSIVE	BVA
December 2009	1,003	EXCLUSIVE	BVA
December 2010	1,009	EXCLUSIVE	BVA
October 2011	1,013	EXCLUSIVE	BVA
October 2012	1,005	EXCLUSIVE	BVA
October 2013	1,022	EXCLUSIVE	BVA
November 2014	1,006	EXCLUSIVE	BVA
Nov.- Dec. 2015	1,016	EXCLUSIVE	BVA
Nov.- Dec. 2016	1,025	EXCLUSIVE	BVA
Nov.- Dec. 2017	1,005	EXCLUSIVE	BVA
Nov.- Dec. 2018	1,039	EXCLUSIVE	CDA
Nov.- Dec. 2019	1,032	EXCLUSIVE	CDA
May 2020	1,002	OMNIBUS	BVA
Nov.- Dec. 2020	1,048	EXCLUSIVE	CDA
November 2020	2,011	EXCLUSIVE-WEB	HARRIS INTERACTIVE
November 2021	2,003	EXCLUSIVE-WEB	HARRIS INTERACTIVE

⋮

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**Previous editions of the barometer
are available on the Internet
at the following address:**

<https://barometre.irsn.fr>

ISSN: 2116-9179

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June 2022

Graphic design: **BRIEF**

Created in 2001, IRSN is a public institution with industrial and commercial activities (EPIC). IRSN's missions have been consolidated by the Act No. 2015-992 of 17 August 2015 concerning Energy Transition and Green Growth (TECV). IRSN is the national public expert on nuclear and radiological risks. IRSN contributes to public policies in the fields of nuclear safety and ionizing radiation protection for public health and environment. As a research and scientific institution it acts in consultation with all stakeholders concerned by these policies, while preserving its independence of judgment.

IRSN is placed under the joint authority of the Ministry of environment, the Ministry of Defence, the Ministry of Energy, the Ministry of Education, and the Ministry of Research and Health.




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