Technical Specifications

Goal

Gathering, for the second year in a row, data regarding the Brazilian population's perception towards the issues surrounding the climate and the environment.

Study period

From September 28th to November 1st, 2021.

Method and data collection

Quantitative research/ Phone interviews - *C.A.T.I.* system

Universe

Brazilian population aged 18 or older.

Sample

2,600 interviews.

Weighting

Weighting factors were calculated by Ipec for the correction of demographic quotas, based on data provided by PNAD-IBGE.

Margin of error

2 percentual points for the sample's total, considering a 95% trust level.

Technical Specifications

Sample's design and collection: A sample consisting of 2,600 interviews, representing the Brazilian population aged 18 or older. Land line and cellphone numbers were randomly selected for the interviews.
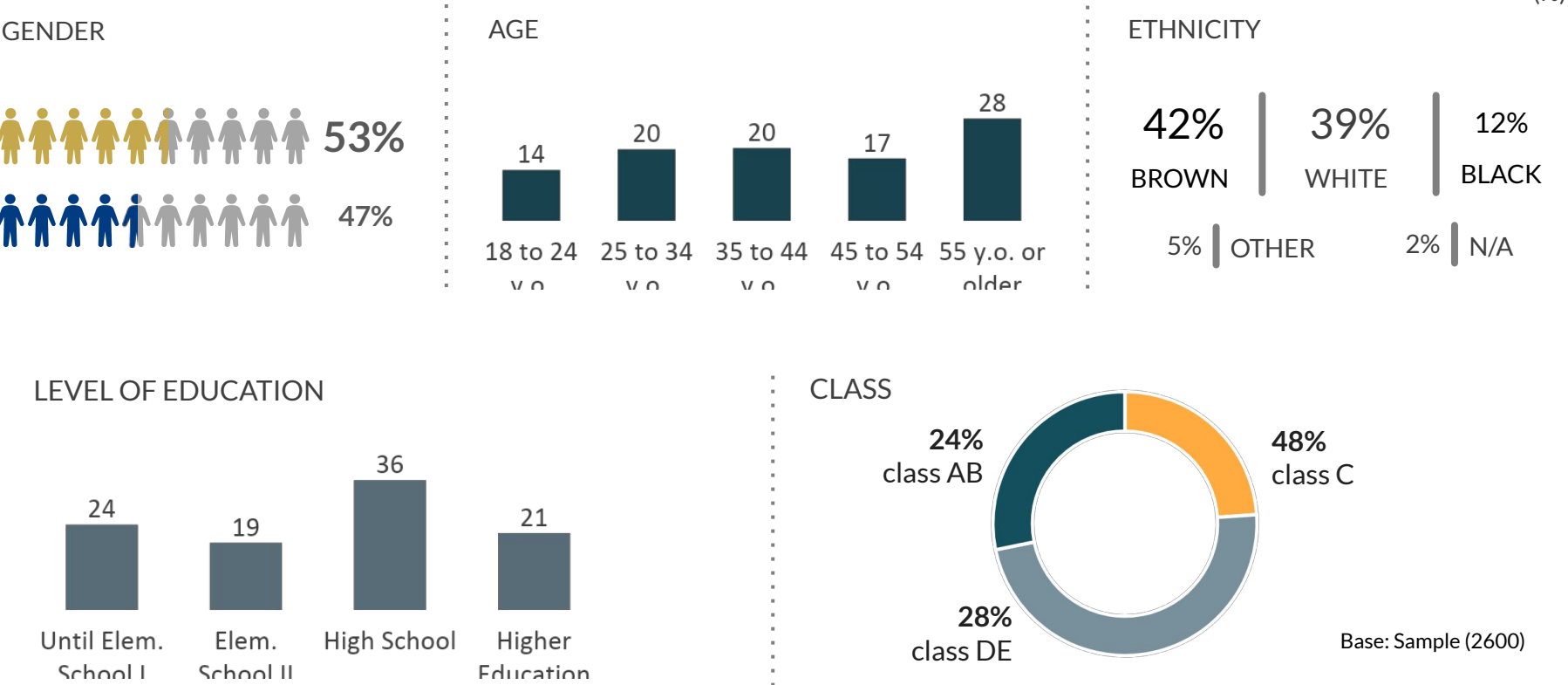
Number of interviewers: 20 interviewers.

Data-collecting instrument: Questionnaire structured by Ipec and submitted for client approval, lasting an average of 18 minutes.

Quality control: 100% of the questionnaires were submitted to an electronic consistency test to verify the integrity of the answers. At least 20% of the interviewer's material was reviewed and verified.

o   Fieldwork and processing was carried out with the support of this interior structure and through partners.

o   Ipec's activities are ruled under the Brazilian Market Research Association's (ABEP) and World Research Association's (ESOMAR) ethical standards.

o   In addition, our procedures are in accordance with the International Quality Standards in Market, Opinion and Social Research – ISO 20252 and the International Quality Standards in Quality Management ISO 9001.
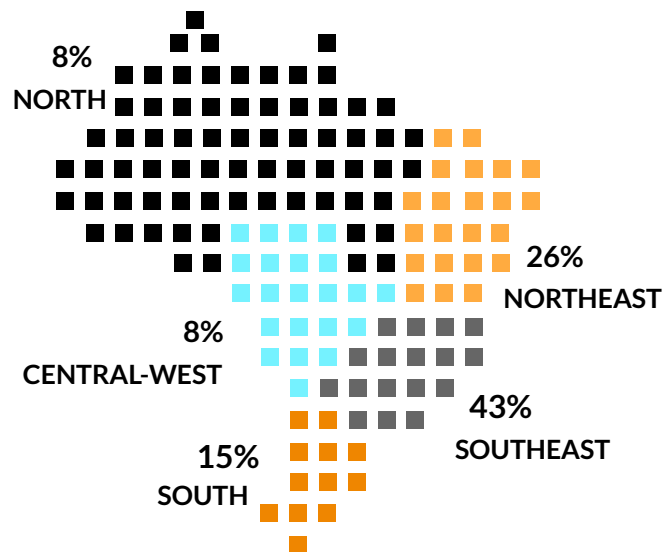
SAMPLE PROFILE

(%)

GENDER

53%

47%

AGE

| 14 | 20 | 20 | 17 | 28 |

18 to 24 y.o. | 25 to 34 y.o. | 35 to 44 y.o. | 45 to 54 y.o. | 55 y.o. or older

ETHNICITY

| 42% | 39% | 12% |
| BROWN | WHITE | BLACK |

5% | OTHER   2% | N/A

LEVEL OF EDUCATION

| 24 | 19 | 36 | 21 |

Until Elem. School I | Elem. School II | High School | Higher Education

CLASS

24%
class AB

48%
class C

28%
class DE

Base: Sample (2600)

SAMPLE PROFILE

REGION

8%
NORTH

26%
NORTHEAST

8%
CENTRAL-WEST

43%
SOUTHEAST

15%
SOUTH

Base: Sample (2600)

City Condition (%)

60%
Rural area

29%
Capital

11%
Suburbs

FIRE SPOTS – R2*

69%
Non-residents

31%
Residents
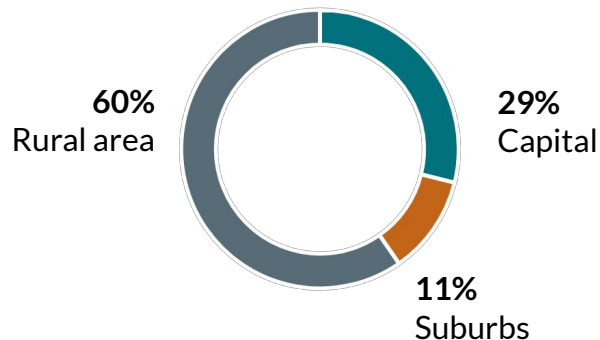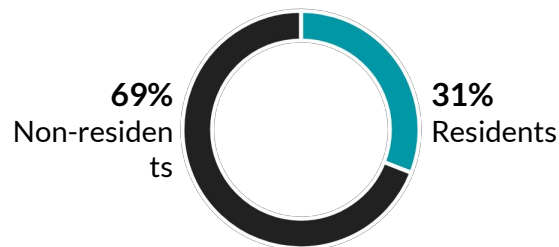
F3) In what city and state do you live?
*Residing in the 10 states with a higher number of fire spots between 09/01/2020 and 09/01/2021: MT, PA, MA, AM, TO, RO, PI, MG, BA, MS.
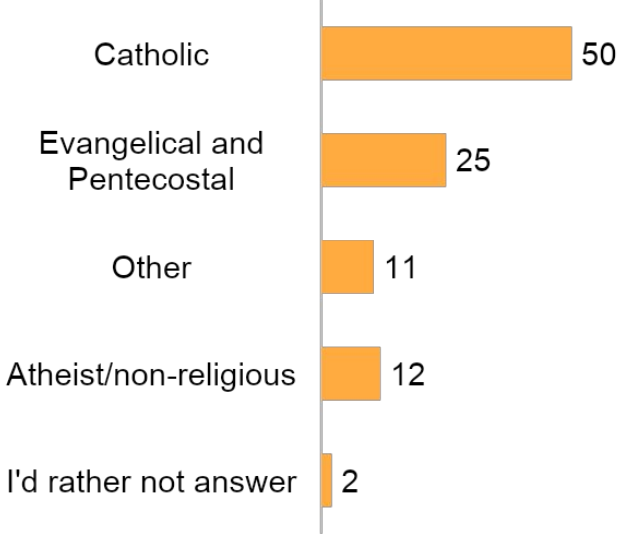Source: INPE – National Institute for Space Research, 2021. Portal for Monitoring Fire Spots and Vegetation Fires. Available at http://www.inpe.br/queimadas. Accessed on: 09/29/2021

SAMPLE PROFILE

(%)

RELIGION

POLITICAL POSITION

Catholic	50
Evangelical and Pentecostal	25
Other	11
Atheist/non-religious	12
I'd rather not answer	2

18%
Leaning towards the left

23%
CENTER

32%
Leaning towards the right

27% DON'T KNOW/DIDN'T ANSWER

Base: Sample (2600)

RELIGION) What's your religion or cult? (SPONTANEOUS- SA) /
Q2.1.9) In politics, people usually talk about the "left", "right" and "center". Do you define yourself as: (READ THE OPTIONS-SA) /
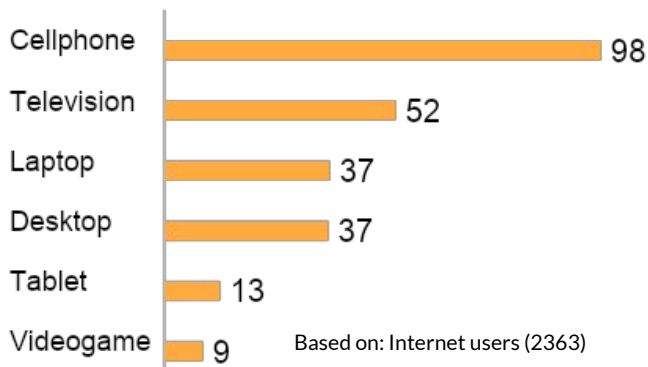
SAMPLE PROFILE

88% Internet users
(used it within the last 3 months)

12% Non-users

INTERNET ACCESS DEVICE

(%)

12%
Doesn't access the internet

62%
More than one device

26%
Only through the cellphone

Based on: Sample (2600)

DEVICE USED

Device	Value
Cellphone	98
Television	52
Laptop	37
Desktop	37
Tablet	13
Videogame	9

Based on: Internet users (2363)

CELLPHONE CONNECTION

Wi-Fi	92
Cellphone network, 3G and 4G	80
N/A	4

Base: Cellphone internet users (2326)

I.M.: 2.47
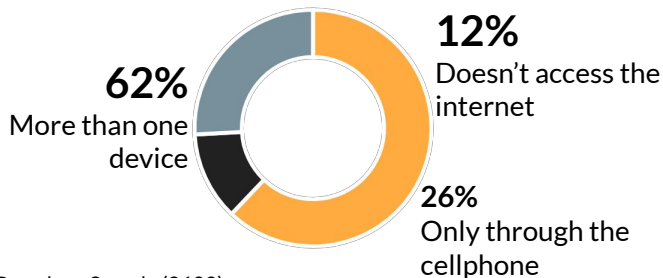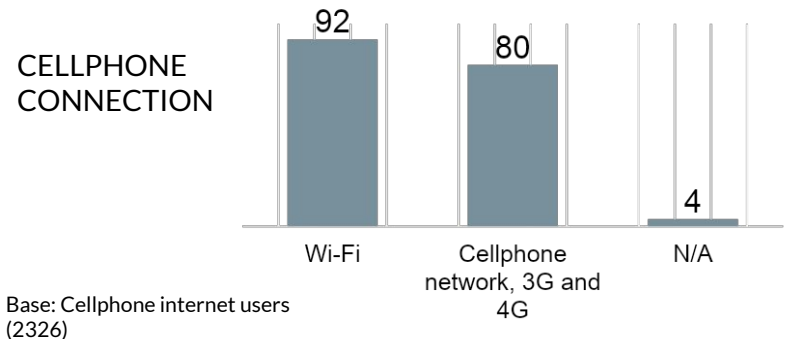
INTERNET) Have you used the internet in the last three months? (SA) / INTERNET1) In the last 3 months, you used the internet: (READ OPTIONS – SA PER LINE) / INTERNET2) When using the Internet on your cellphone in the last 3 months, what was the kind of connection utilized? (SA PER LINE)

RESPONDENTS' BACKGROUND ON MAIN ANALYSIS VARIABLES

AGE

18 to 27 y.o.	299
25 to 34 y.o.	590
35 to 44 y.o.	600
45 to 54 y.o.	479
55 y.o. or older	632

REGION

North	360
Northeast	580
Southeast	920
South	380
Central-west	360

POLITICAL POSITION

Leaning towards the left	Center	Leaning towards the right
479	621	847

LEVEL OF EDUCATION

Elementary School I	390
Elementary School II	542
High School	1010
Higher Education	658

CLASS

AB	C	DE
941	1107	552

INTERNET USAGE

Users	Non-users
2363	237

Sample (2600)

Through which of these means
do you receive most of your information?

87%	71%	70%	66%	62%	49%	32%	31%
Conversations with relatives, friends, and coworkers	Internet Websites	WhatsApp	Social networks, such as Facebook, Twitter or Instagram	Broadcast TV	Radio	Cable TV, pay TV	Print newspapers or magazines

Base: Sample (2600)

Q.2.1.8) Usually, through which of these means do you receive most of your information? (READ OPTIONS – SA PER LINE)
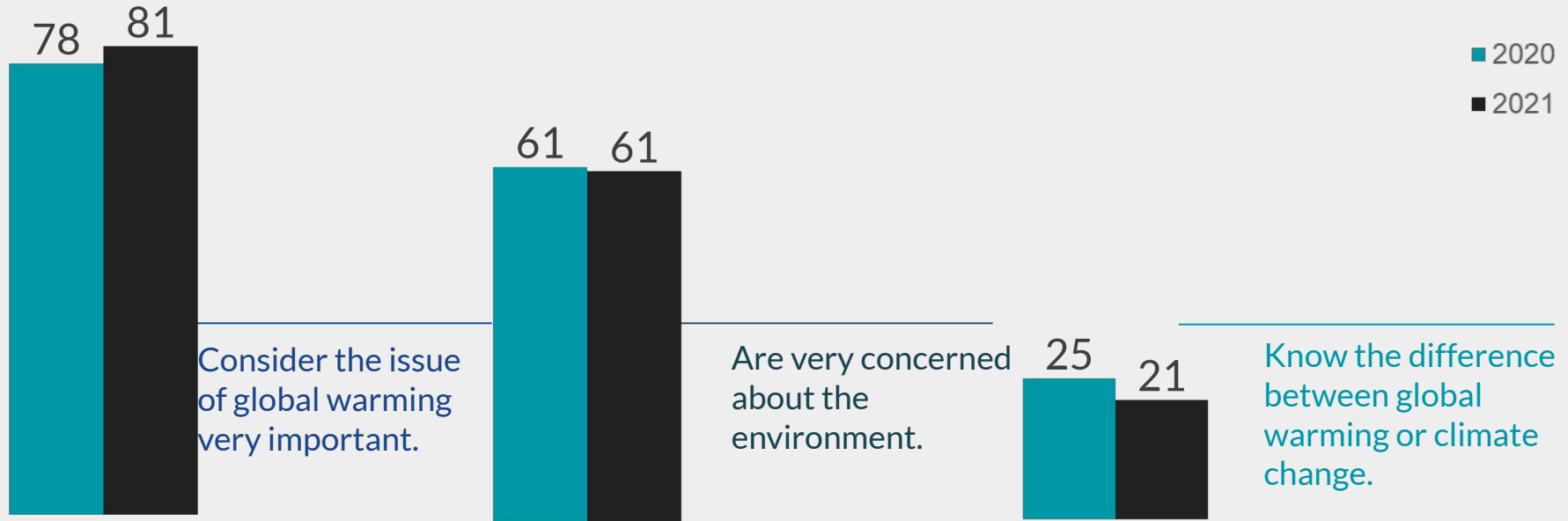
Knowledge

Most Brazilian citizens still consider the issue of global warming important and are concerned about this theme, but only **25%** claim to know much about the topic.

Importance, concern, and knowledge
regarding global warming and climate change

78   81

61   61

25   21

■ 2020
■ 2021

Consider the issue of global warming very important.

Are very concerned about the environment.

Know the difference between global warming or climate change.

Base: 2020 and 2021 sample. (2,600)

Q1.1.4) How important do you deem the issue of global warming to be? (READ OPTIONS – SA)
Q1.1.1) How concerned about the environment do you consider yourself to be currently? Would you say you are… (READ OPTIONS – SA)
Q1.1.0) How much do you know about global warming or climate change? (READ OPTIONS – SA)

55 years old or older

Consider the issue of global warming very important.

65%
2020

74%
2021

Level of importance
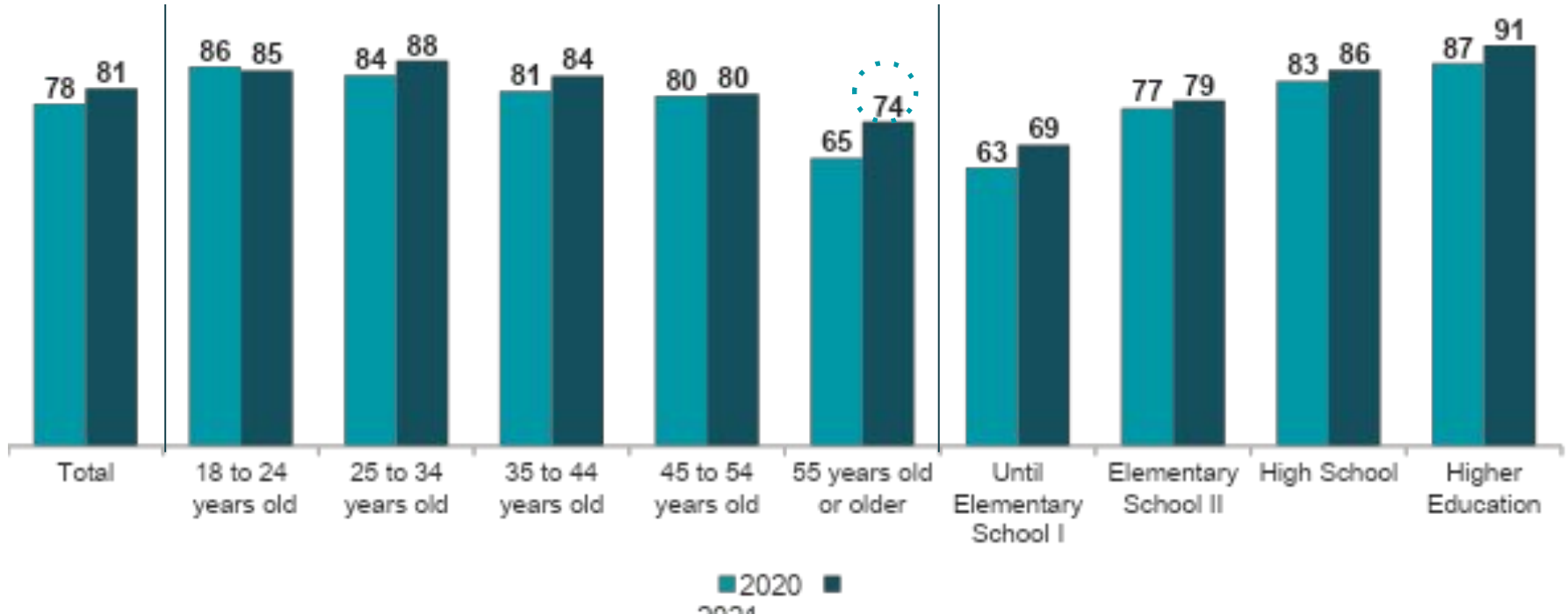
regarding the issue of global warming (very important)

	Total	18 to 24 years old	25 to 34 years old	35 to 44 years old	45 to 54 years old	55 years old or older	Until Elementary School I	Elementary School II	High School	Higher Education
2020	78	86	84	81	80	65	63	77	83	87
2021	81	85	88	84	80	74	69	79	86	91

■2020 ■2021

Base: Sample (2,600)

Level of importance
regarding the issue of global warming (very important)

Total: 2020 = 78, 2021 = 81
Class AB: 2020 = 83, 2021 = 88
Class C: 2020 = 79, 2021 = 84
Class DE: 2020 = 71, 2021 = 72
Leaning towards the left: 2020 = 83, 2021 = 88
Center: 2020 = 85, 2021 = 88
Leaning towards the right: 2020 = 72, 2021 = 75

■2020 ■2021

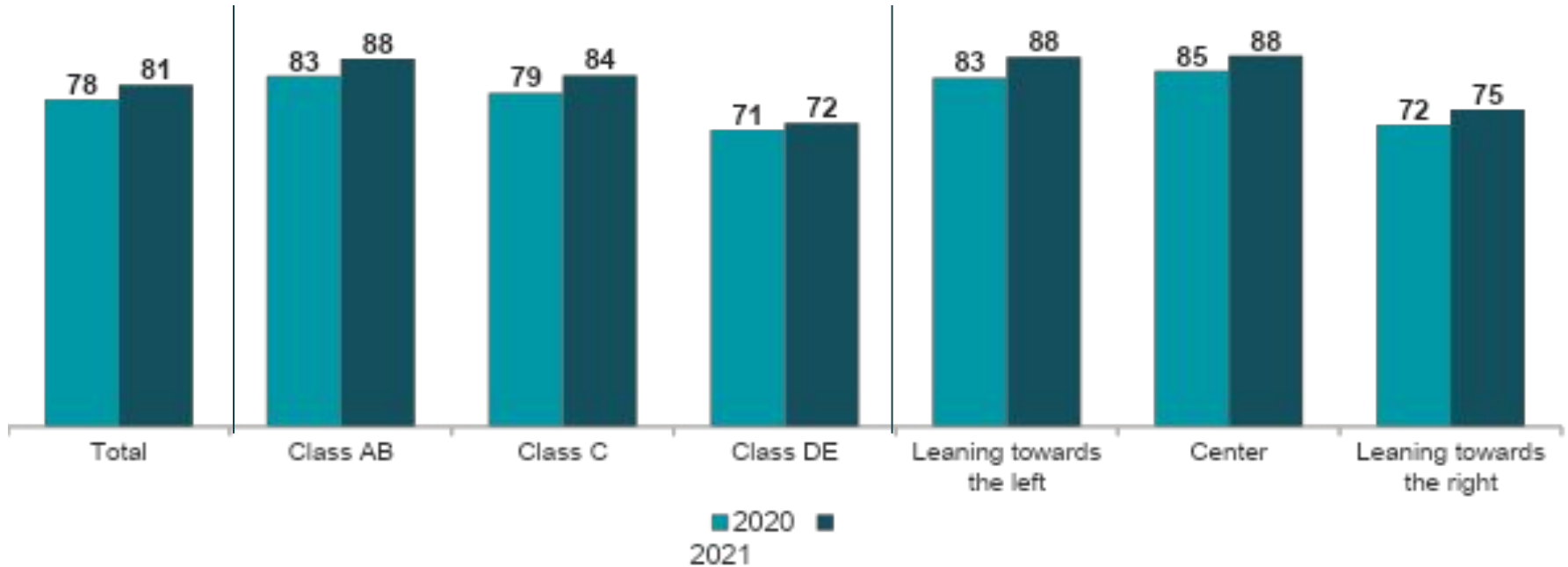Q1.1.4) How important do you deem the issue of global warming to be? (READ OPTIONS – SA)

Base: Sample (2,600)

Level of importance
regarding the issue of global warming (very important)

	Total	Accesses the Internet through more than one device	Accesses the Internet only through the cellphone	Doesn't access the Internet
2020	78	82	81	59
2021	81	86	79	64

■2020 ■2021

Q1.1.4) How important do you deem the issue of global warming to be? (READ OPTIONS – SA)
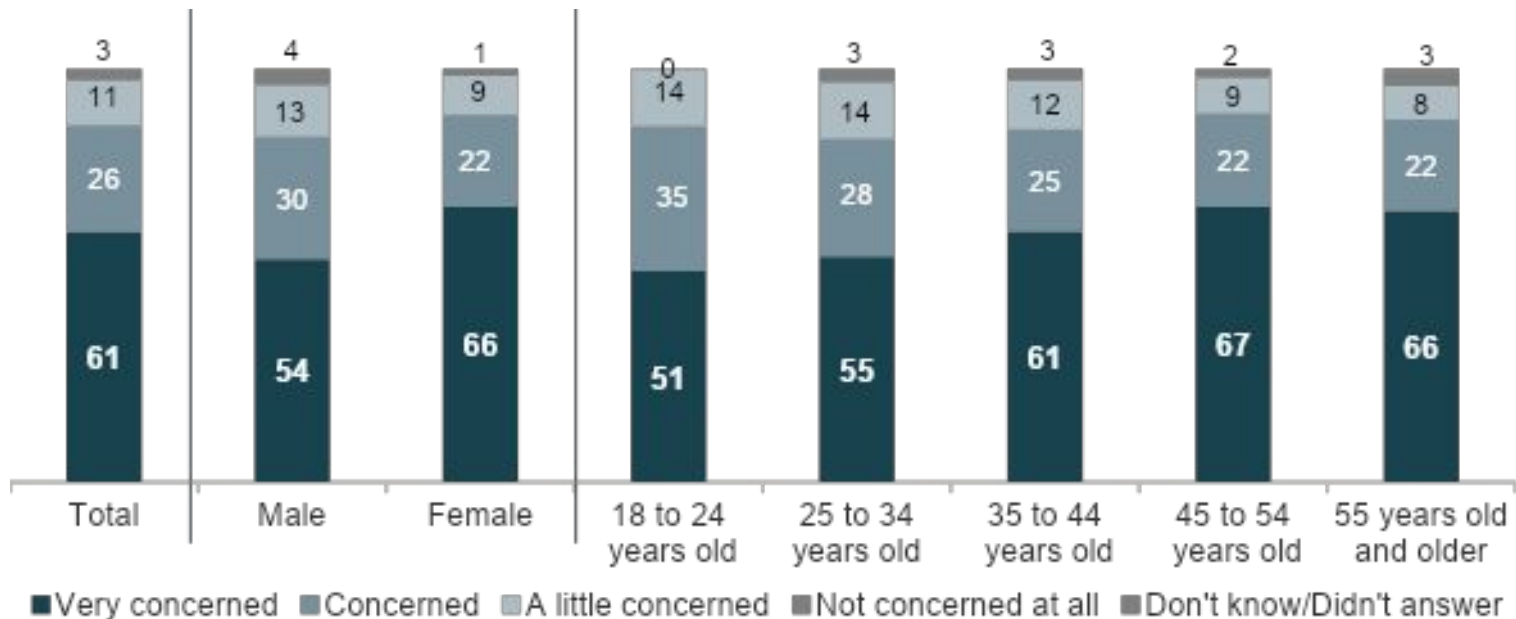
Base: Sample (2,600)
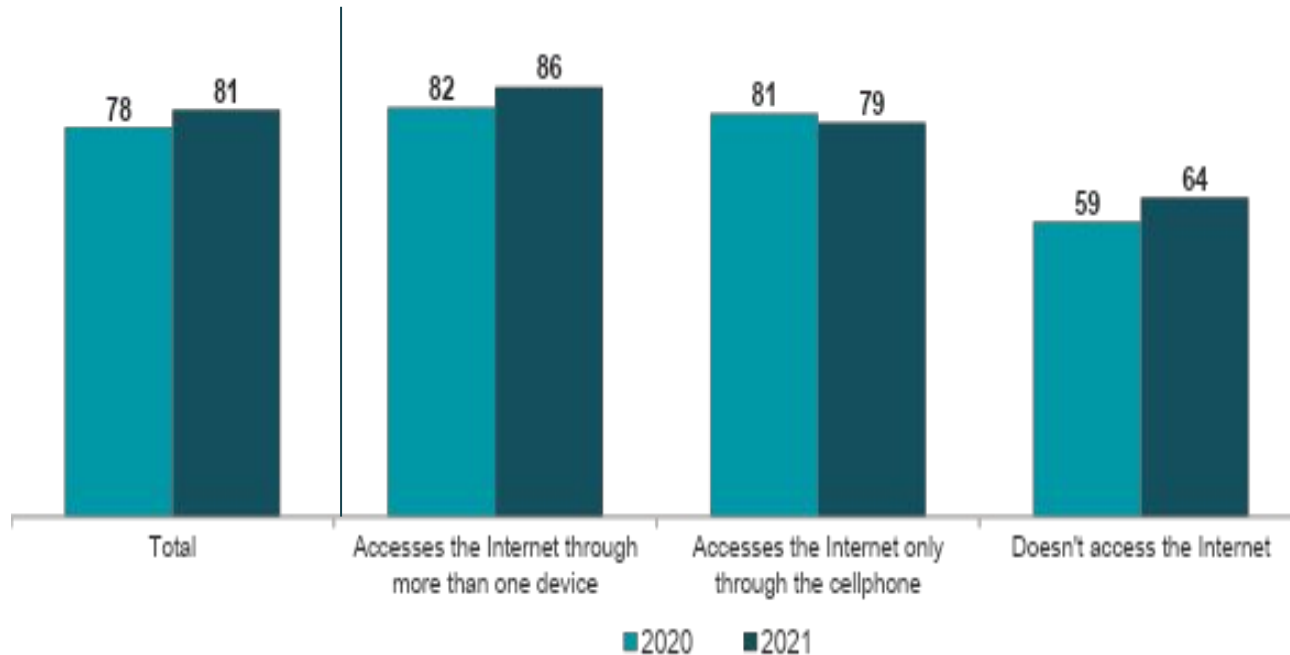
Environment and politics

Those who position themselves politically towards the left are those who claim greater concern towards the environment.

Level of concern
towards the environment

Q1.1.1) In terms of the environment, how concerned would you consider yourself to be right now? Would you say you are…

Base: Sample (2,600)

Level of concern
 towards the environment

Knowledge

There's a lower number of people who consider themselves knowledgeable regarding the issue of global warming and climate change among those who don't access the Internet and those more politically aligned with the right.

Level of knowledge
regarding the issue of global warming and climate change
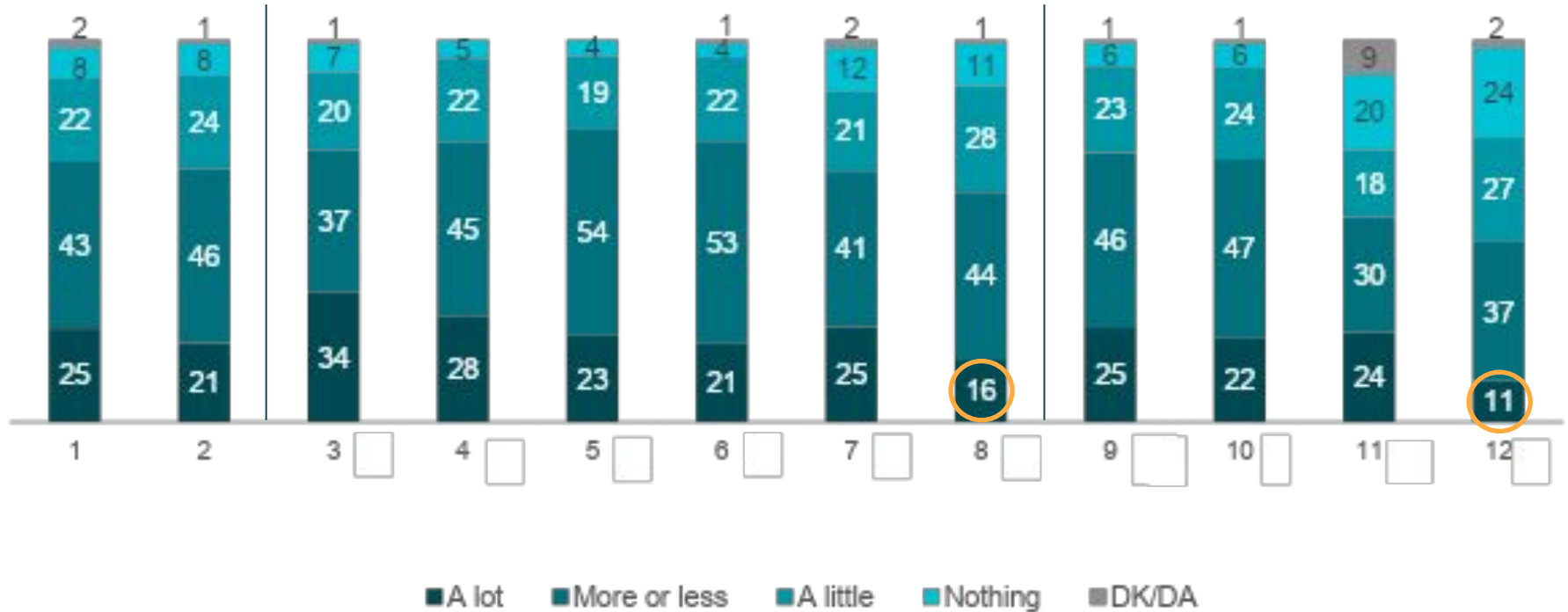
	A lot	More or less	A little	Nothing	DK/DA
Legend	A lot	More or less	A little	Nothing	DK/DA

Level of knowledge
regarding the issue of global warming and climate change

Class

	A lot	More or less	A little	Nothing	DK/DA
Total	21	46	24	8	1
A/B	29	47	20	4	
C	21	47	25	6	1
D/E	13	43	27	17	0

Level of education

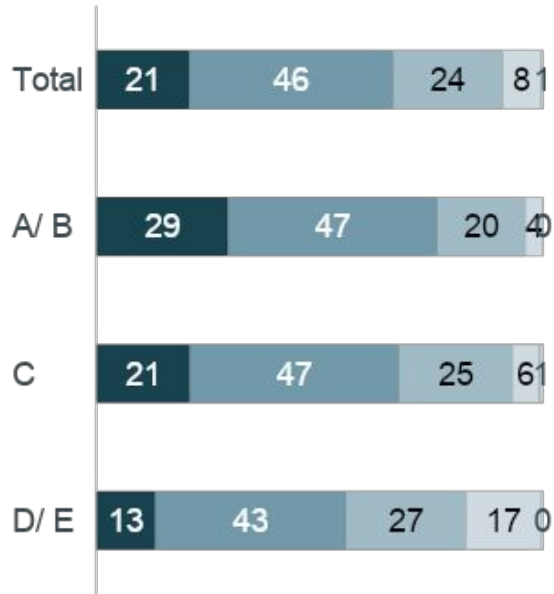|	A lot	More or less	A little	Nothing	DK/DA
Total	21	46	24	8	1
Until Elem. School I	13	36	27	22	2
Elementary School II	15	47	29	7	1
High School	18	53	24	4	0
Higher Education	39	41	18	0	

Legend:
- A lot
- More or less
- A little
- Nothing
- DK/DA

Q1.1.0) How much do you know about global warming or climate change? (READ OPTIONS – SA)
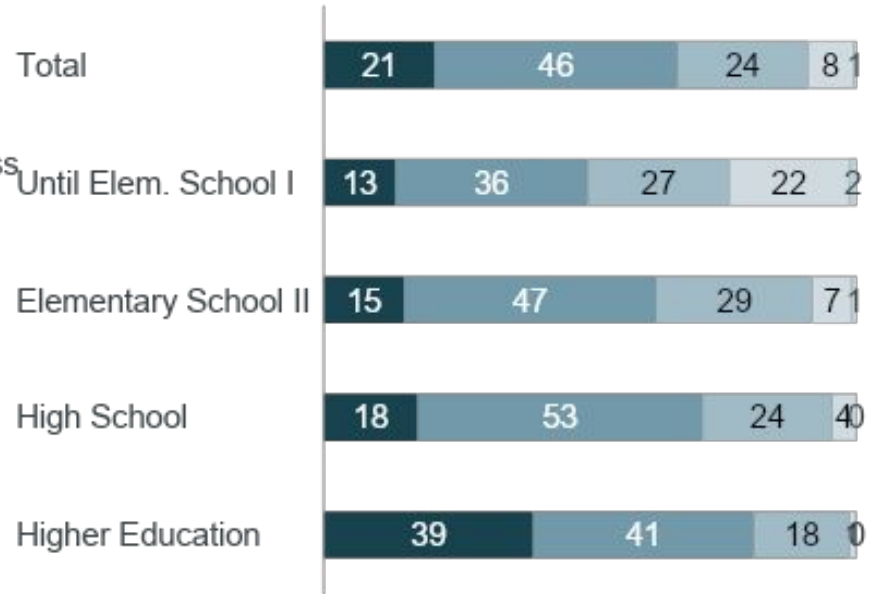
Base: Sample (2,600)

What is considered more important?

77%

PROTECTING THE ENVIRONMENT,
even if that means low economic growth and fewer jobs (77% in 2020)

Base: Sample (2600)

Q1.2.3) What do you consider more important: (READ OPTIONS – SA)

13%
PROMOTING ECONOMIC GROWTH

and job creation, even if this harms the environment (14% in 2020)

10%
DK/DA
(8% in 2020)

What is considered more important?

Legend:
- Don't know/didn't answer
- Promoting economic growth and job creation, even if that harms the environment
- Protecting the environment, even if that means low economic growth and fewer jobs
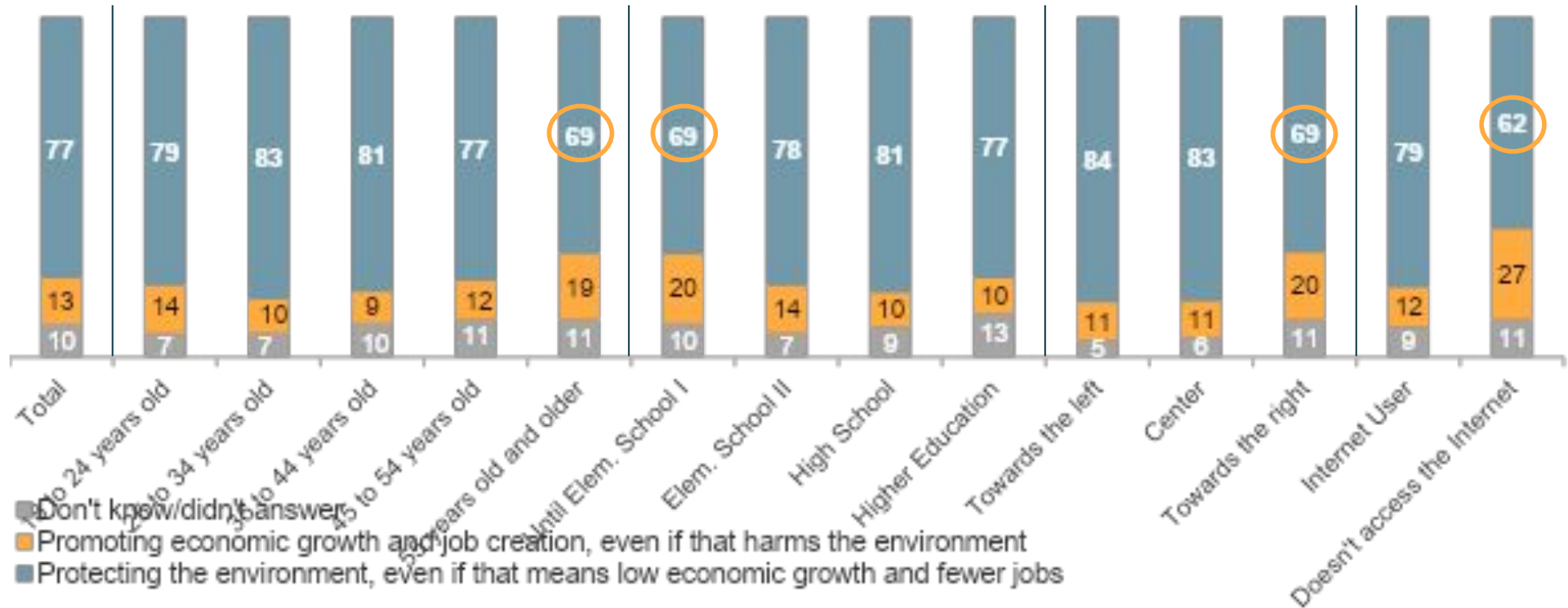
Categories (left to right): Total, 18 to 24 years old, 25 to 34 years old, 35 to 44 years old, 45 to 54 years old, 55 years old and older, Until Elem. School I, Elem. School II, High School, Higher Education, Towards the left, Center, Towards the right, Internet User, Doesn't access the Internet

Values:
- Total: 77 / 13 / 10
- 18 to 24 years old: 79 / 14 / 7
- 25 to 34 years old: 83 / 10 / 7
- 35 to 44 years old: 81 / 9 / 10
- 45 to 54 years old: 77 / 12 / 11
- 55 years old and older: 69 / 19 / 11
- Until Elem. School I: 69 / 20 / 10
- Elem. School II: 78 / 14 / 7
- High School: 81 / 10 / 9
- Higher Education: 77 / 10 / 13
- Towards the left: 84 / 11 / 5
- Center: 83 / 11 / 6
- Towards the right: 69 / 20 / 11
- Internet User: 79 / 12 / 9
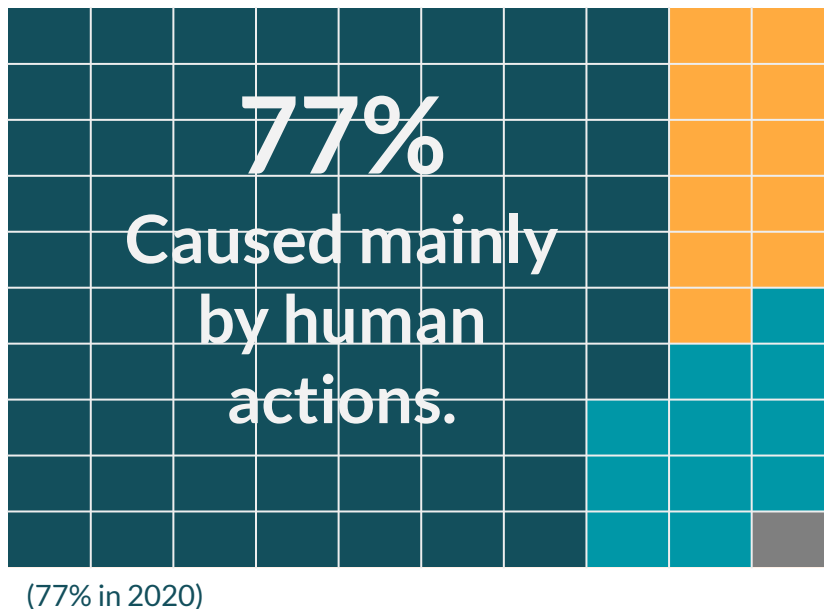- Doesn't access the Internet: 62 / 27 / 11

Base: Sample (2600)

Q1.2.3) What do you consider more important: (READ OPTIONS – SA)

Perception regarding the causes behind global warming

96%
of Brazilian citizens believe that global warming is happening.
(92% in 2020)

77%
Caused mainly by human actions.

(77% in 2020)

11%
Results from **natural environmental changes.** (12% in 2020)

11% Both (sp.).
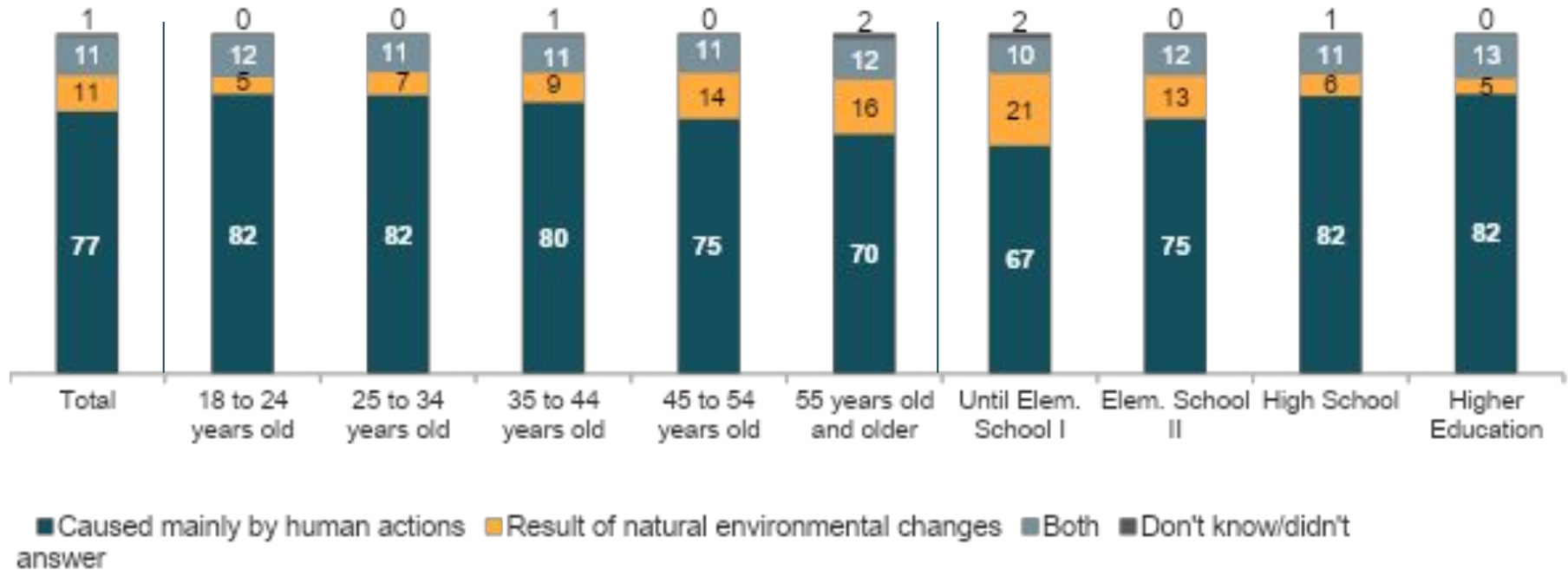(9% in 2020)

1% DON'T KNOW/DIDN'T ANSWER

Q1.1.2) Recently, a lot has been said about global warming, meaning, the rise in global temperatures over the last 150 years, which contributes to causing changes to the planet's climate. In your opinion, is global warming happening? (SA)
Q1.2.1) Do you believe that it's caused mainly by human actions or as a result of natural environmental changes? (SA)
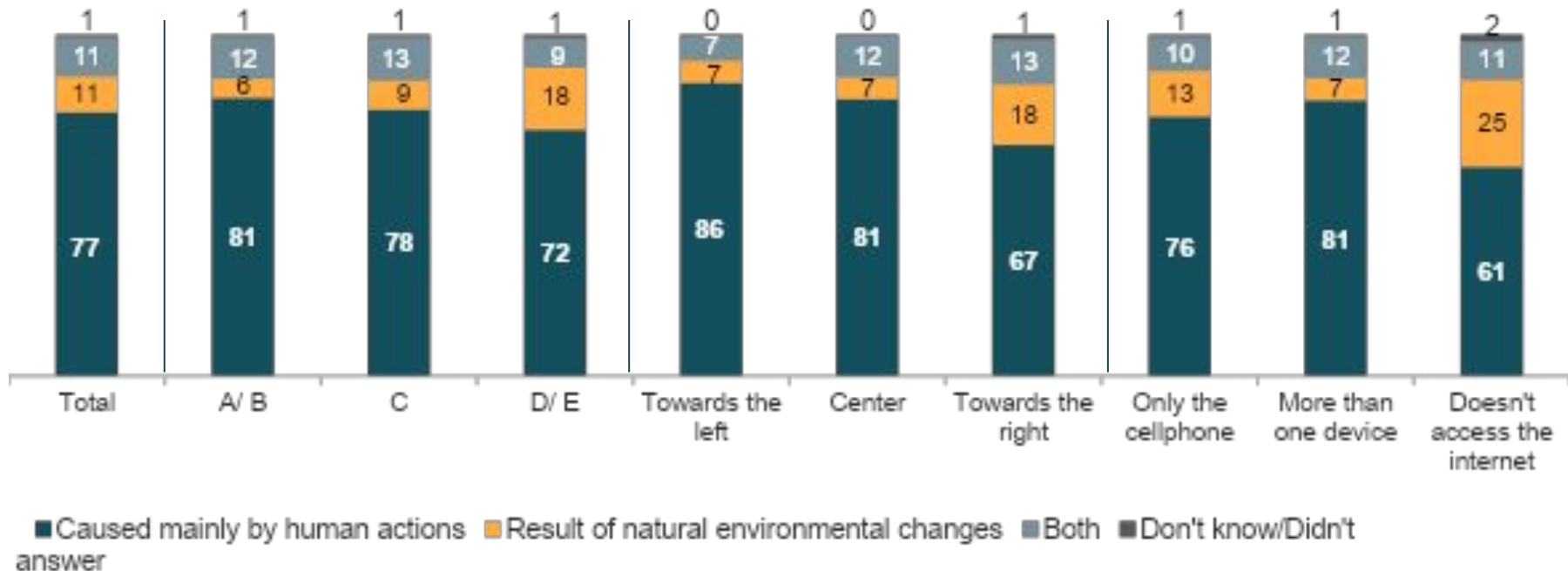
Base: Sample (2,600)

Perception regarding the causes behind global warming

Legend: ■ Caused mainly by human actions ■ Result of natural environmental changes ■ Both ■ Don't know/didn't answer

	Total	18 to 24 years old	25 to 34 years old	35 to 44 years old	45 to 54 years old	55 years old and older	Until Elem. School I	Elem. School II	High School	Higher Education
Don't know/didn't answer	1	0	0	1	0	2	2	0	1	0
Both	11	12	11	11	11	12	10	12	11	13
Result of natural environmental changes	11	5	7	9	14	16	21	13	6	5
Caused mainly by human actions	77	82	82	80	75	70	67	75	82	82

Base: Sample (2,600)

Q1.2.1) Do you believe that it's caused mainly by human actions or as a result of natural environmental changes? (SA)
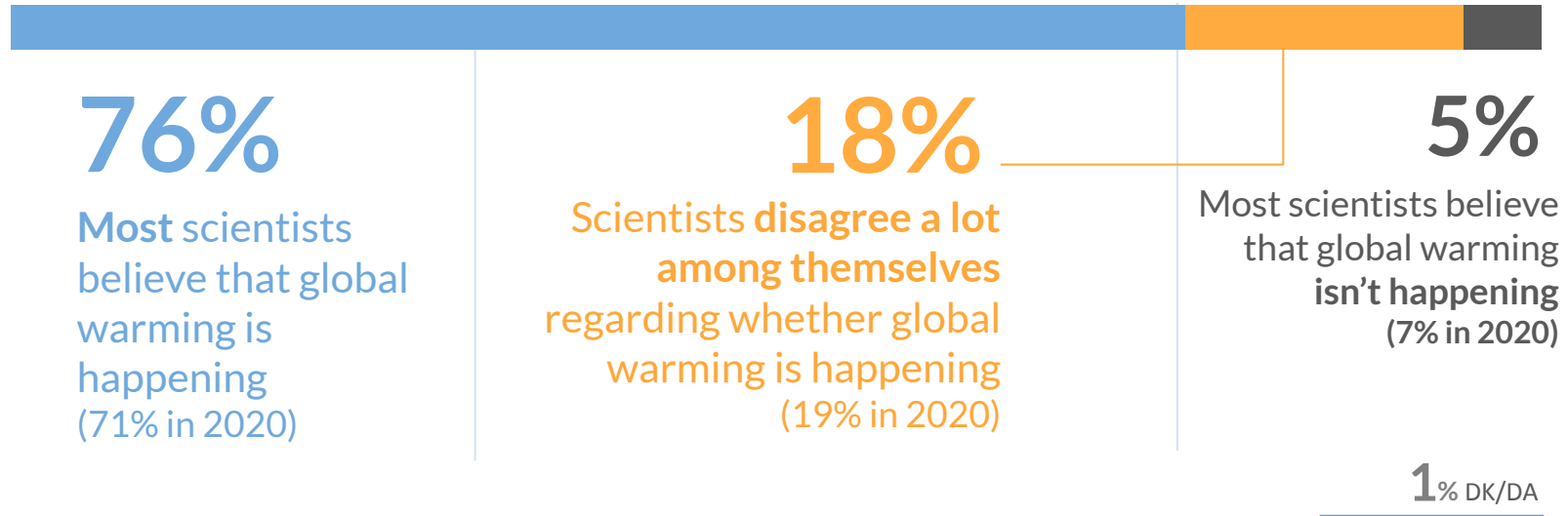
Perception regarding the causes behind global warming

Q1.2.1) Do you believe that it's caused mainly by human actions or as a result of natural environmental changes? (SA)

Base: Sample (2,600)
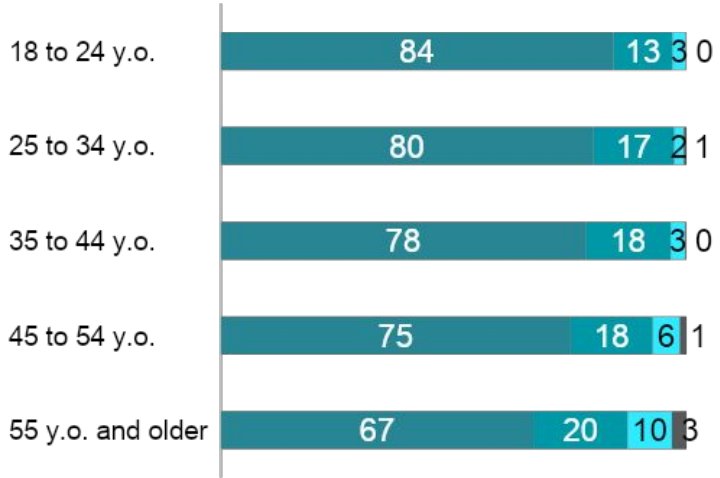
Perception towards scientists' opinions regarding this issue

76%

Most scientists believe that global warming is happening
(71% in 2020)

18%

Scientists **disagree a lot among themselves** regarding whether global warming is happening
(19% in 2020)

5%

Most scientists believe that global warming **isn't happening**
(7% in 2020)

1% DK/DA

Base: Sample (2,600)

Perception towards scientists' opinions regarding this issue

Age

18 to 24 y.o.	84	13 3 0
25 to 34 y.o.	80	17 2 1
35 to 44 y.o.	78	18 3 0
45 to 54 y.o.	75	18 6 1
55 y.o. and older	67	20 10 3

Legend:
- Most scientists believe that global warming is happening
- Scientists disagree a lot among themselves whether global warming is happening
- Most scientists believe global warming isn't happening
- Don't know/Didn't answer

Level of education

Total	76	18 5 1
Until Elem. School I	65	21 11 3
Elem. School II	73	19 6 1
High School	80	17 3
Higher Education	84	15 1

Base: Sample (2600)

Q1.2.2) Which of the next three sentences read by me is closest to your opinion regarding scientists' thoughts surrounding global warming (SA):
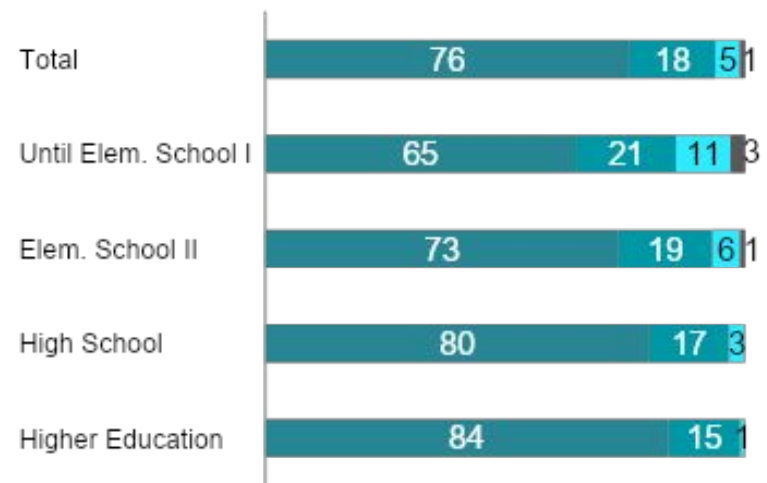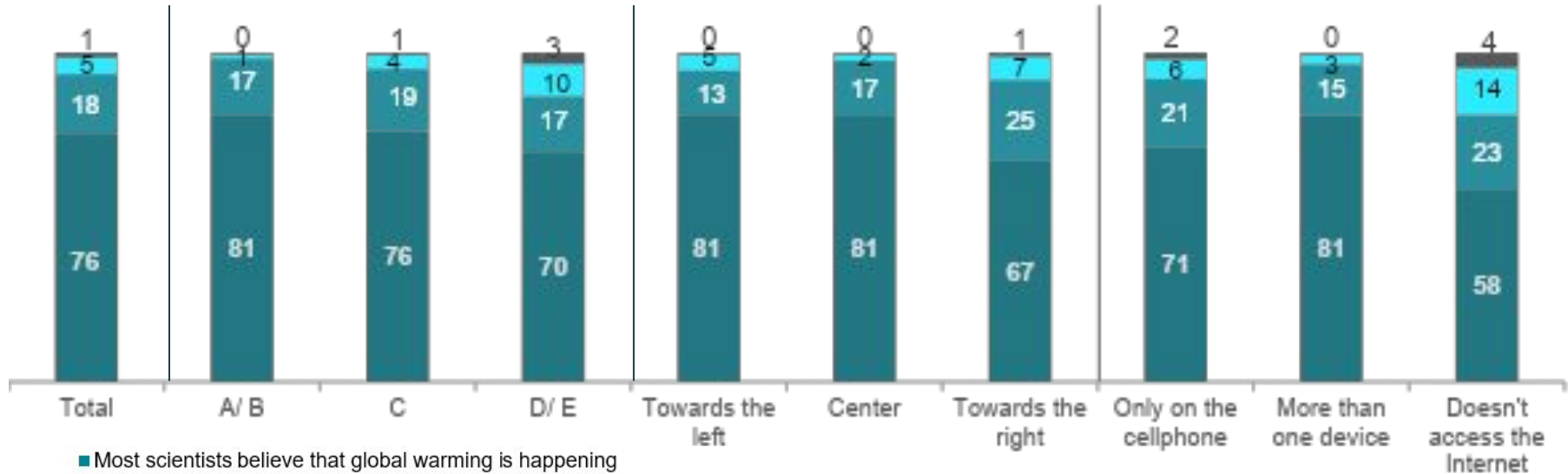
Perception towards scientists' opinions regarding this issue

■ Most scientists believe that global warming is happening

■ Scientists disagree a lot among themselves whether global warming is happening

■ Most scientists believe global warming isn't happening

■ Don't know/Didn't answer

Q1.2.2) Which of the next three sentences read by me is closest to your opinion regarding scientists' thoughts surrounding global warming (SA):   Base: Sample (2,600)

Can global warming greatly harm future generations?

90%

Believe that global warming may harm future generations a lot (88% in 2020)

5%
Somewhat
(5% in 2020)

3%
A little
(4% in 2020)

1%
Not at all
(4% in 2020)

1%
DK/DA
(1% in 2020)

Base: 2020 and 2021 sample (2,600)

Q1.1.6) And to what extent do you believe global warming may harm future generations)?

75%

Believe that global warming may harm them and their families a lot.

(72% in 2020)

13%
Somewhat
(14% in 2020)

8%
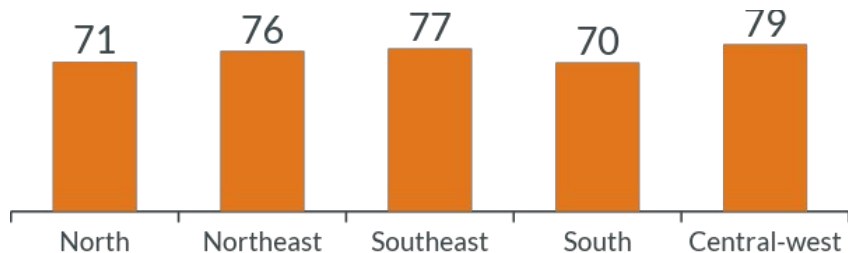**A little**
(7% in 2020)

3%
Not at all
(5% in 2020)

Q1.1.5) In your opinion, to what extent do you believe global warming may harm you and your family?

Base: 2020 and 2021 sample (2,600)

Brazilian citizens who believe global warming may harm **their families a lot***.

Region

North	Northeast	Southeast	South	Central-west
71	76	77	70	79

Politics

81%
Towards the left

78%
Center

69%
Towards the right

Ethnicity

Black	Brown	White	Other
82	78	71	74

Gender

80%
Female

70%
Male
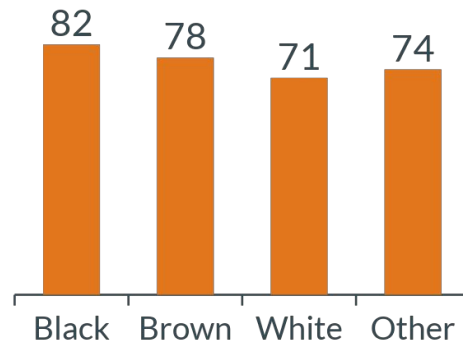
Base: Sample (2,600)

Q1.1.5) In your opinion, to what extent do you believe global warming may harm you and your family

*Percentage of those who answered that global warming may harm future generations A LOT.

Who is able to contribute the most to solve the issue of climate change?

37% Governments (35% in 2020)

32% Companies and Industries (32% in 2020)

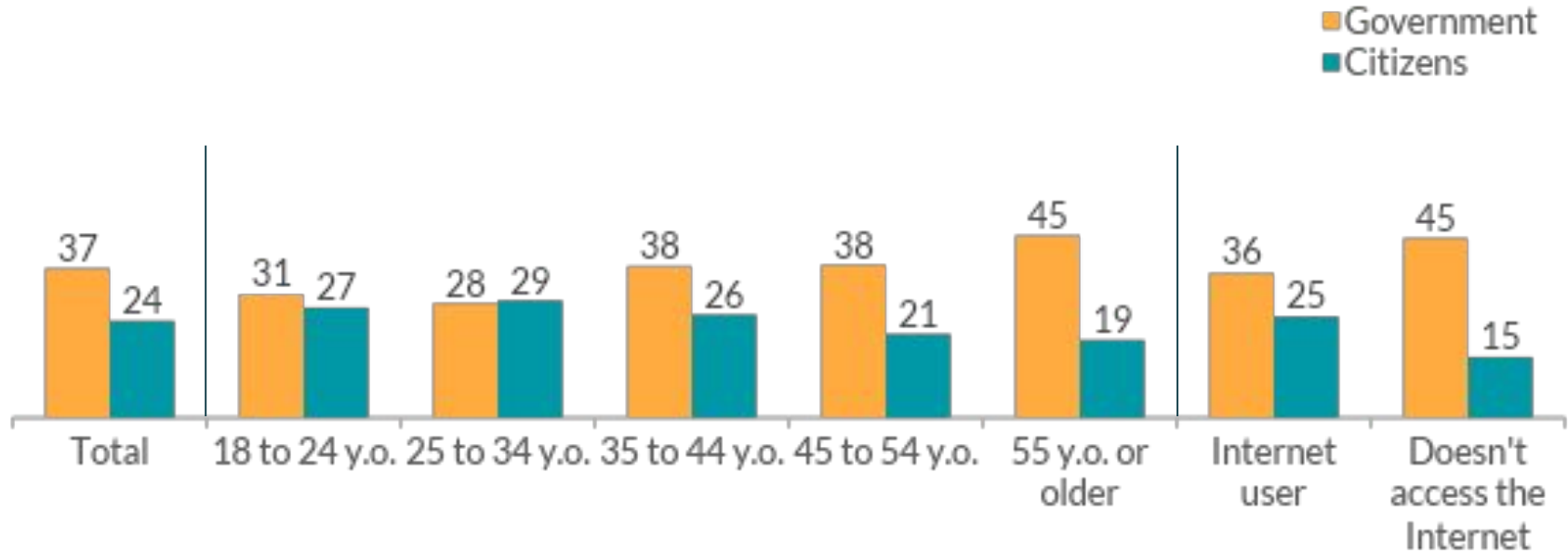**24%** Citizens (24% in 2020)

4% NGOs (4% in 2020)

3% DK/DA (4% in 2020)

Q2.2.2) In your opinion, who is able to contribute the most to solve the issue of climate change? (READ OPTIONS) And in second place? And in third place?
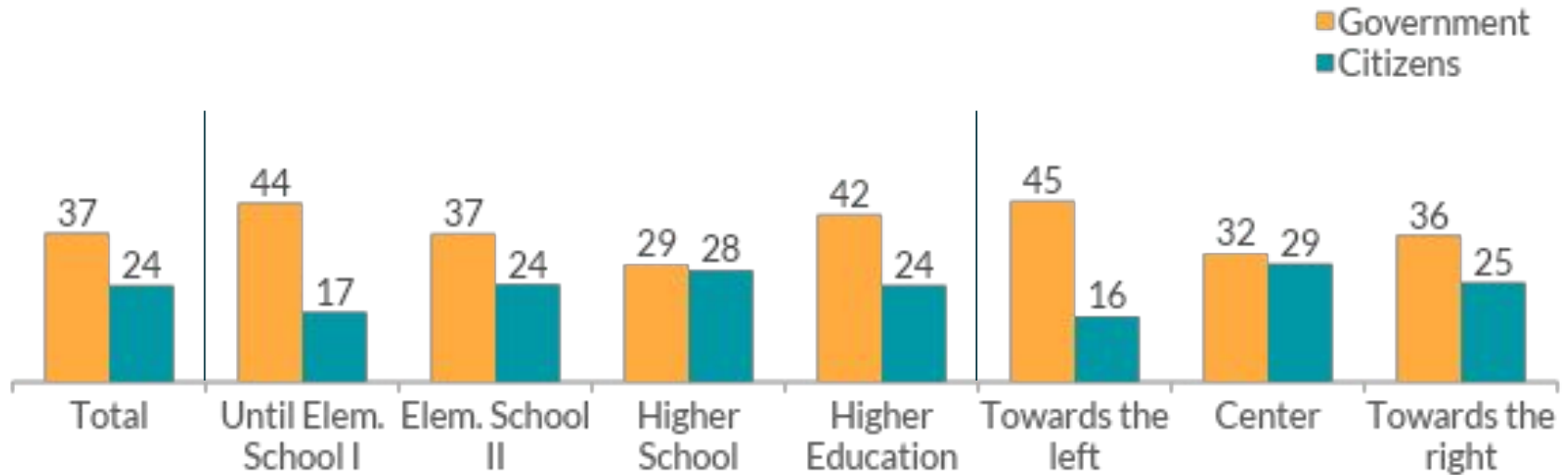
Base: 2020 and 2021 sample (2,600)

Government's *VS* citizens' contributions to solve the issue of climate change

Base: Sample (2,600)

Q2.2.2) In your opinion, who is able to contribute the most to solve the issue of climate change? (READ OPTIONS) And in second place? And in third place?

Government's *VS* citizens' contribution to solve the issue of climate change

Government
Citizens

	Total	Until Elem. School I	Elem. School II	Higher School	Higher Education	Towards the left	Center	Towards the right
Government	37	44	37	29	42	45	32	36
Citizens	24	17	24	28	24	16	29	25

Q2.2.2) In your opinion, who is able to contribute the most to solve the issue of climate change? (READ OPTIONS) And in second place? And in third place?
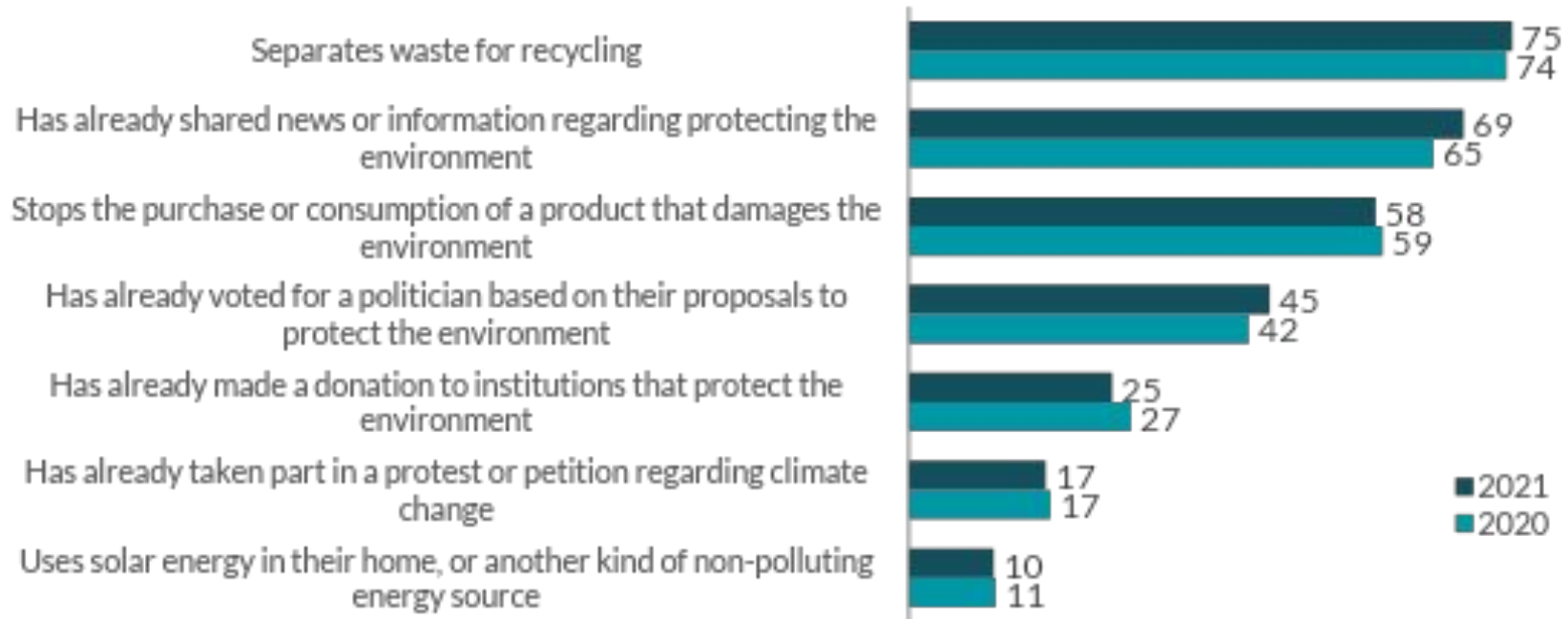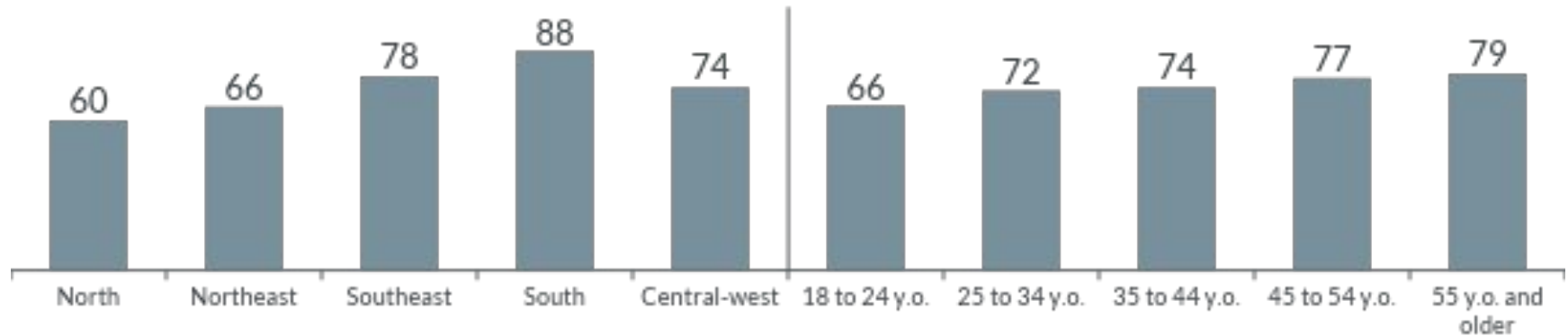
What actions do you usually take?

Separates waste for recycling — 75 (2021), 74 (2020)

Has already shared news or information regarding protecting the environment — 69 (2021), 65 (2020)

Stops the purchase or consumption of a product that damages the environment — 58 (2021), 59 (2020)

Has already voted for a politician based on their proposals to protect the environment — 45 (2021), 42 (2020)

Has already made a donation to institutions that protect the environment — 25 (2021), 27 (2020)

Has already taken part in a protest or petition regarding climate change — 17 (2021), 17 (2020)

Uses solar energy in their home, or another kind of non-polluting energy source — 10 (2021), 11 (2020)

Legend: ■2021 ■2020

Base: Sample (2,600)
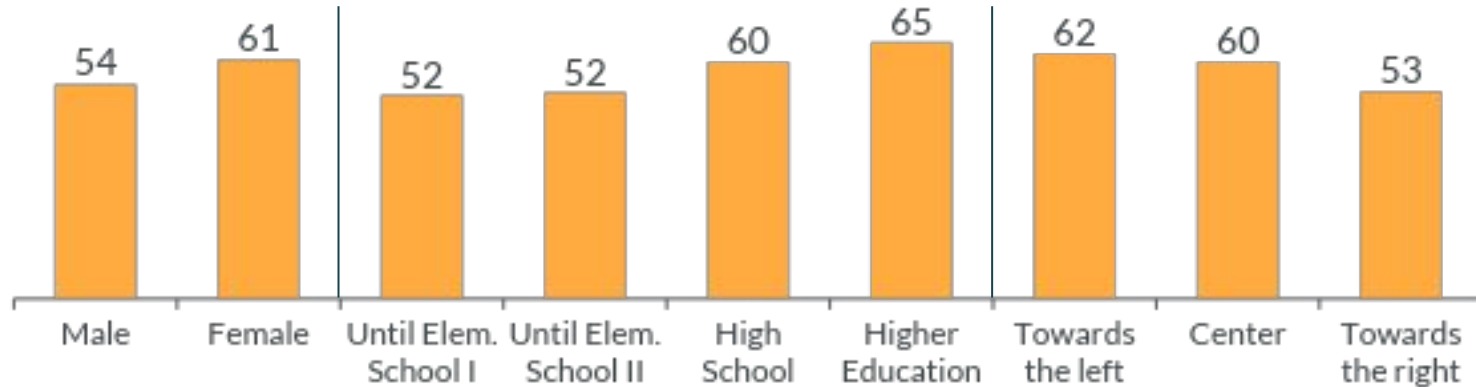
Q 1.1.7) From the options I'll read out, please, tell me, which of those actions do you usually take or have you already taken

What actions do you usually take?

75% **Separates waste for recycling**
(74% in 2020)

North	Northeast	Southeast	South	Central-west	18 to 24 y.o.	25 to 34 y.o.	35 to 44 y.o.	45 to 54 y.o.	55 y.o. and older
60	66	78	88	74	66	72	74	77	79

Base: Sample (2,600)

Q 1.1.7) From the options I'll read out, please, tell me, which of those actions do you usually take or have you already taken

What actions do you usually take?

58%   **Stops purchase or consumption of a product that damages the environment** (59% in 2020)

Male	Female	Until Elem. School I	Until Elem. School II	High School	Higher Education	Towards the left	Center	Towards the right
54	61	52	52	60	65	62	60	53

Q 1.1.7) From the options I'll read out, please, tell me, which of those actions do you usually take or have you already taken

45%

Has already **voted on a politician** based on their proposals to **protect the environment**
(42% in 2020)

65%
___
Towards the left

55%
___
Higher education

51%
___
Class A/B

17%

Has already taken part in a protest or petition regarding climate change
(17% in 2020)

33% Higher Education

32% Towards the left

30% 18 to 24 y.o.

26% Class A/B

Base: Sample (2,600)

98%

**Has already heard of the Amazon fires**
(98% in 2020)

87%

Has already heard a lot about the fires that happen every year in the country
(87% in 2020)

Base: Sample (2,600)

Q2.1.1) Have you heard of the Amazon fires? (SA)

Q2.1.0) Now thinking of the fires in Brazil, how much have you already heard about the fires that happen every year in the country?

Perception towards the evolution of Amazon fires over the last years

Politics*

91% Towards the left

83% Center

68% Towards the right
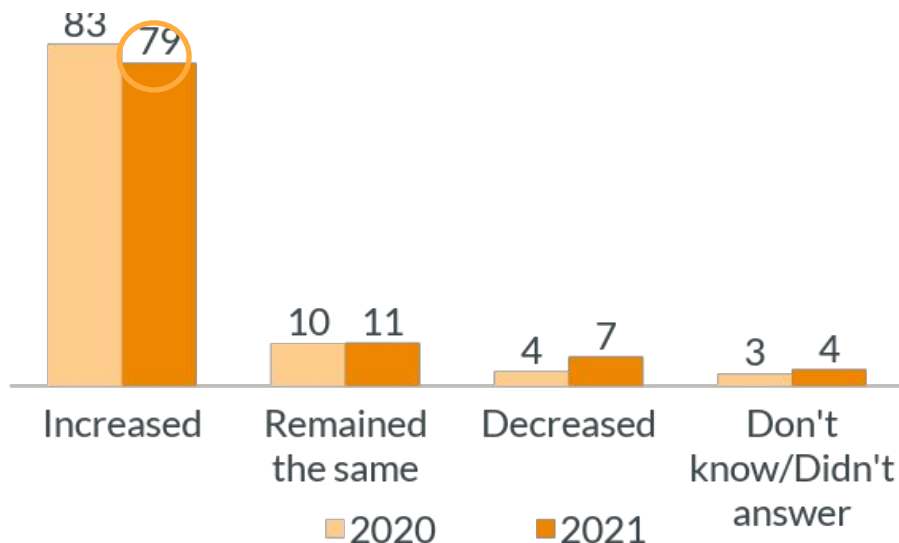
Base: Sample (2,600)

Q2.1.3) In your opinion, over the last two years, have the number of Amazon fires increased, remained the same, or decreased compared to previous years? (READ OPTIONS – SA)
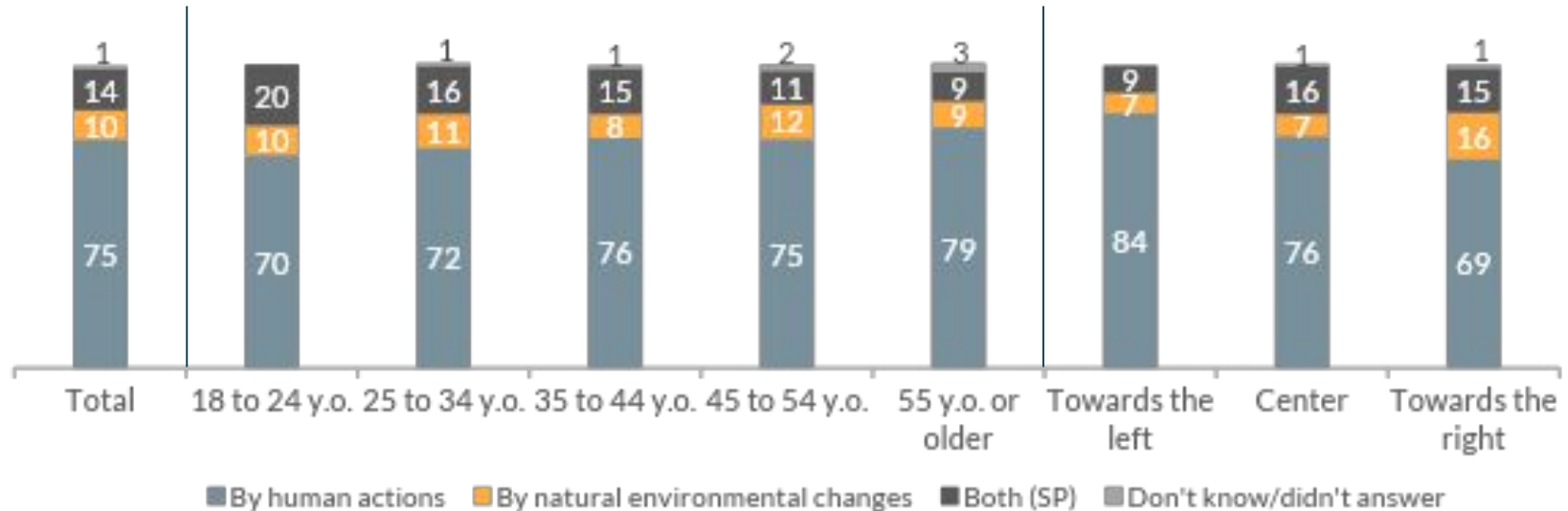
*Percentage of respondents who said the number of Amazon fires increased compared to previous years.

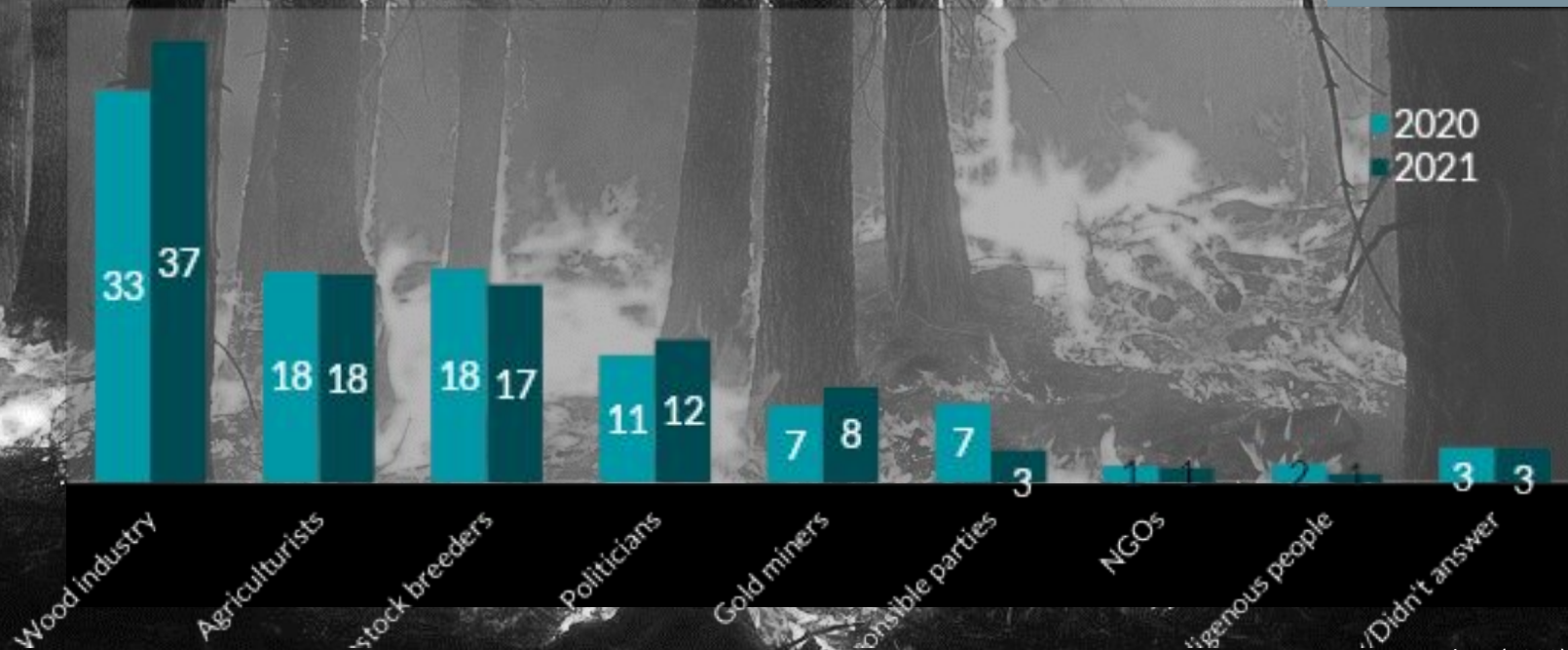# Perception towards the causes behind the Amazon fires

	Total	18 to 24 y.o.	25 to 34 y.o.	35 to 44 y.o.	45 to 54 y.o.	55 y.o. or older	Towards the left	Center	Towards the right
Don't know/didn't answer	1		1	1	2	3		1	1
Both (SP)	14	20	16	15	11	9	9	16	15
By natural environmental changes	10	10	11	8	12	9	7	7	16
By human actions	75	70	72	76	75	79	84	76	69

■ By human actions ■ By natural environmental changes ■ Both (SP) ■ Don't know/didn't answer

In 2020: 77% by human actions/ 9% by natural environmental changes/ 12% by both

Base: Sample (2,600)

Q.2.1.6) Recently, there has been news in the press regarding the Amazon fires. In your opinion, the Amazon fires are caused

Main responsible parties for the Amazon fires

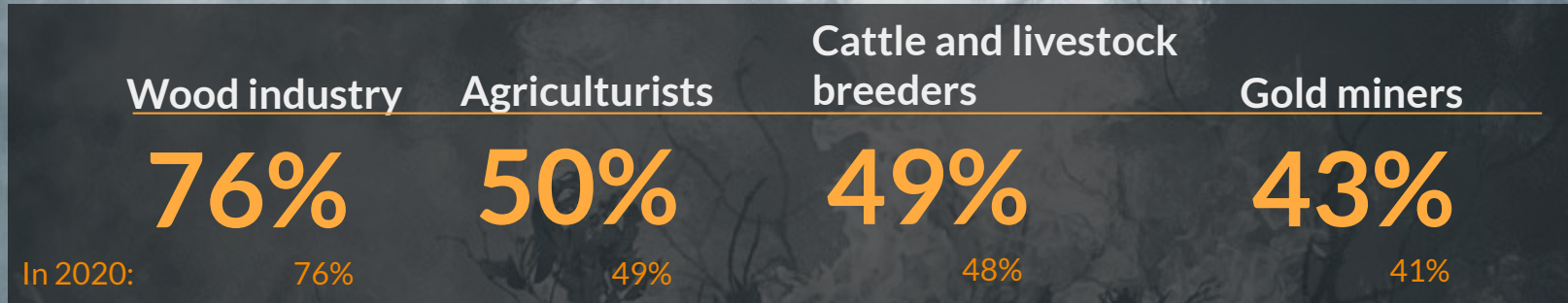Legend: 2020, 2021

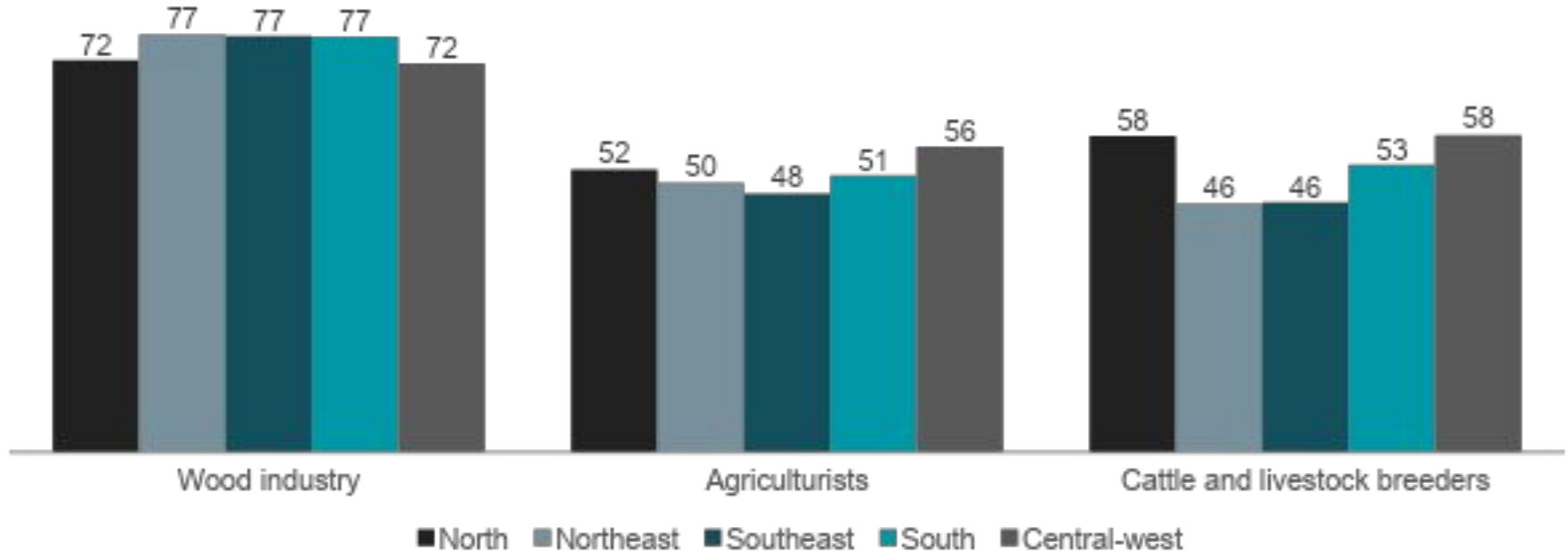| Category	2020	2021
Wood industry	33	37
Agriculturists	18	18
Livestock breeders	18	17
Politicians	11	12
Gold miners	7	8
Responsible parties	7	3
NGOs	1	1
Indigenous people	2	1
Didn't answer	3	3

Q.2.1.4) In your opinion, from the options I'll read, who are the main responsible parties for the Amazon fires in first, second, and in third place?
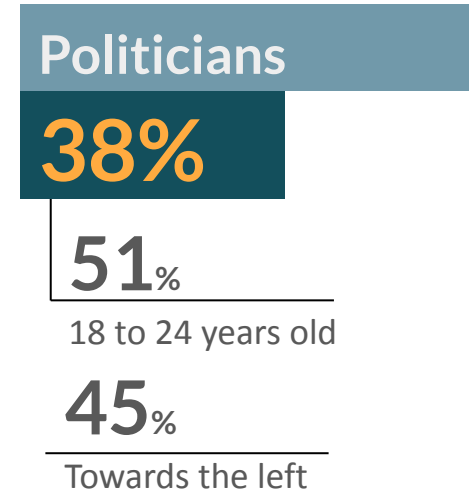
Base: Respondent (1998)

Responsible parties for the Amazon fires

Wood industry	Agriculturists	Cattle and livestock breeders	Gold miners
76%	**50%**	**49%**	**43%**

In 2020: 76% 49% 48% 41%

POLITICIANS	OTHERS	INDIGENOUS PEOPLE	NGOs	DK/DA
38%	**9%**	**8%**	**6%**	**6%**

In 2020: 34% 20% 8% 6% 4%

Q.2.1.4) In your opinion, from the options I'll read out, who are the main responsible parties for the Amazon fires in first, second, and in third place?
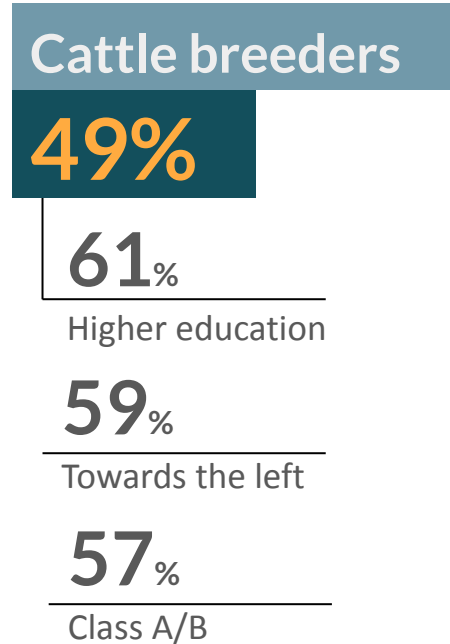
Base: Respondent (1998)

Responsible parties for the Amazon fires

Q.2.1.4) In your opinion, from the options I'll read out, who are the main responsible parties for the Amazon fires in first, second, and in third place?

Base: Respondent (1998)

Responsible parties for the Amazon fires

Wood workers
76%

82%
Higher education

Cattle breeders
49%

61%
Higher education

59%
Towards the left

57%
Class A/B

Politicians
38%

51%
18 to 24 years old

45%
Towards the left

Base: Respondent (1998)

Q.2.1.4) In your opinion, from the options I'll read out, who are the main responsible parties for the Amazon fires in first, second, and in third place?

Who can contribute the most to solve the issue of the Amazon fires

50%
Governments
(54% in 2020)

21%
Citizens
(21% in 2020)

13%
Companies and industries
(15% in 2020)

1st PLACE

9%
THE MILITARY*

4%
NGOs (4% in 2020)

3%
DK/DA (4% in 2020)

*New item, not asked in the 2020 edition

Q2.2.3) In your opinion, who do you believe can contribute the most to solve the issue of the Amazon fires?

Who can contribute the most to solve the issue of the Amazon fires
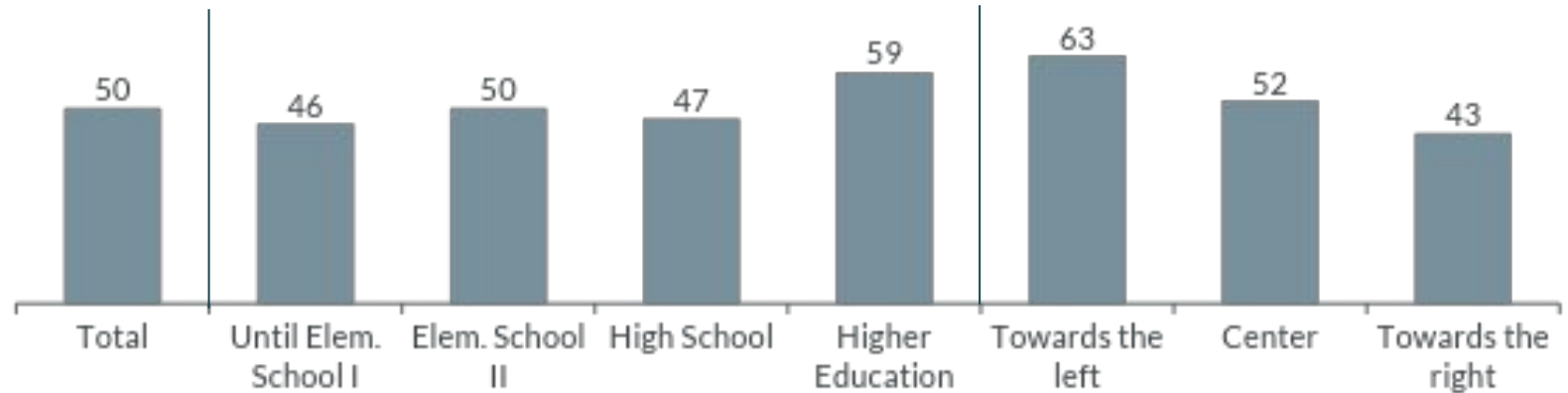
Base: Sample (2,600)

Q2.2.3) In your opinion, who do you believe can contribute the most to solve the issue of the Amazon fires?

86% agree

That the Amazon fires **damage Brazil's image abroad.** (84% in 2020)

10% Disagree

3% Neither agree, nor disagree

1% Don't know/didn't answer

Politics*

95% Towards the left

90% Center

77% Towards the right

*Percentage of those who agreed with the statement.

Base: Sample (2,600)

Q2.1.2) Please, tell me whether you agree or disagree with each of the sentences that I'll read:

78% agree

That the Amazon fires **may harm Brazil's trade relationships with other countries.** (78% in 2020)

14%
Disagree

6%
Neither agree, nor disagree

2%
DK/DA

Politics*

91%
Towards the left

80%
Center

69%
Towards the right

*Percentage of those who agreed with the statement.

74% disagree

That the Amazon fires **are necessary for economic growth** (74% in 2020)

17%
Agree

6%
Neither agree, nor disagree

2%
DK/DA

Base: Sample (2,600)

Q2.1.2) Please, tell me whether you agree or disagree with each of the sentences that I'll read:

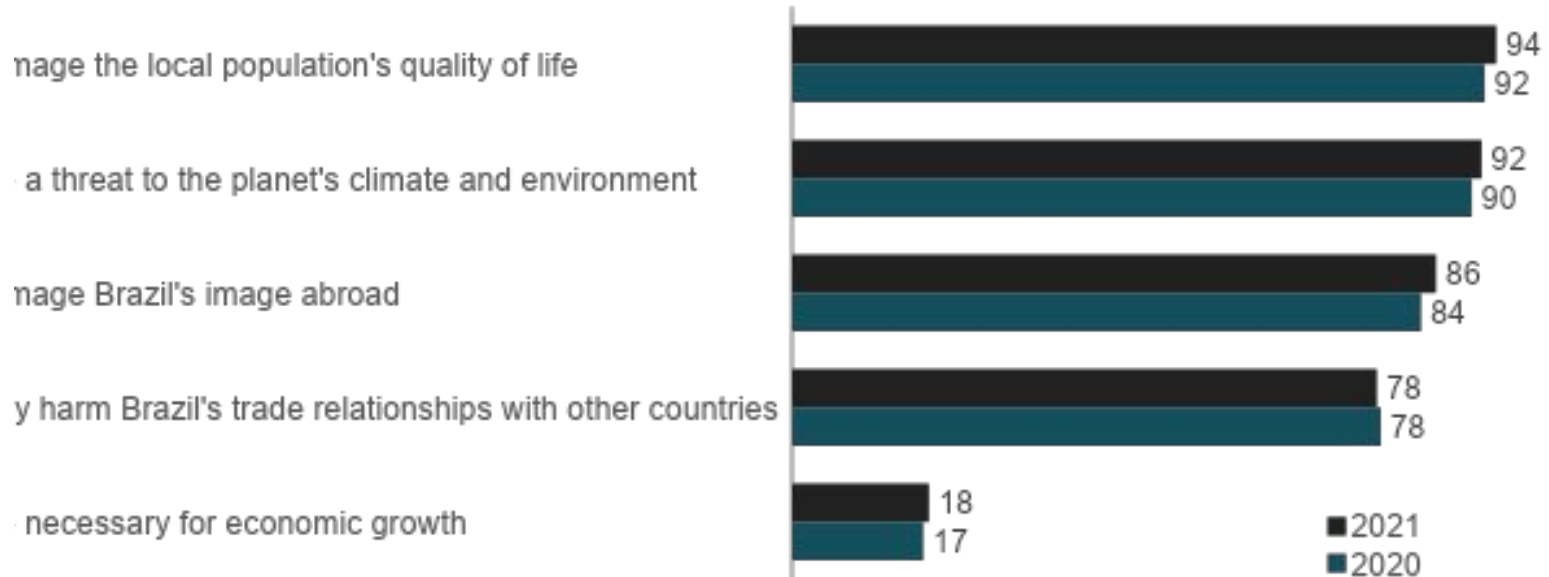# How much do you agree with the following statements?*

Statement	2021	2020
nage the local population's quality of life	94	92
a threat to the planet's climate and environment	92	90
nage Brazil's image abroad	86	84
y harm Brazil's trade relationships with other countries	78	78
necessary for economic growth	18	17

■2021
■2020

*Percentage of those who agreed with the statement.

Base: Sample (2,600)

Q2.1.2) Please, tell me whether you agree or disagree with each of the sentences that I'll read: