Artificial Intelligence Policies Association (AIPA) Research for the Future

Artificial Intelligence Perception in Society

#AIPAFR

Reference to the report : Zafer Küçükşabanoğlu, Volkan Kılıç, Şebnem Özdemir.
AIPA Research on Future: Quantitative Research Report on Artificial Intelligence Perception in Society
Artificial Intelligence Policies Association (AIPA), Kuantum Araştırma 2021.

June 2021

While John McCarthy defined artificial intelligence as an engineering discipline in 1956; Professor Andrew NG, who is one of the pioneers of artificial intelligence, described it as humanity's new electricity. The most important difference between these two definitions is that artificial intelligence has the potential to affect every aspect of life. Just as electricity has reshaped humanity socially, culturally and economically; artificial intelligence will transform the life and the humanity with the same effect. In order to achieve this transformation, a clear artificial intelligence stance and policy should be determined in every field, and artificial intelligence should be made understandable for all segments of society. And from this point forth, the Artificial Intelligence Policies Association (AIPA) was established in February 2021. AIPA, which is one of the first non-governmental organizations in the field of artificial intelligence in Turkey, aims "to form policies in order to create, support and disseminate a new entrepreneurship culture in our country by raising awareness of artificial intelligence in the society, contributing to the increase of individual and corporate competencies, and accelerating our country's goal of being among the top 10 economies in the world through technology entrepreneurship".

According to AIPA; the artificial intelligence is not only a technical issue, but also a destructive-innovative transformer that can penetrate every aspect of life. For this reason, our Association determined 17 subject headings; from education to economy; from media to foreign policy; from culture & art to sports. The potential for the transformation that will be caused by artificial intelligence is studied in all of these topics and also separately.

AIPA, basically acts with the mission of creating artificial intelligence awareness in the society. However, maintaining this mission correctly, shaping the future of artificial intelligence in our country depends on discussing "what we know about artificial intelligence" today. Because every work done without researching the society's perception on artificial intelligence will fail to create the desired effect and will not reach the right audience.

AIPA carried out a critically important research in April and May 2021 in order to plan the right moves regarding individual and social competence in the field of artificial intelligence. The research, that we conducted about 2 months after our establishment, was carried out in order to examine the perspective of the 14-45 age group on artificial intelligence and to plan the necessary measures in the light of the results for the future of our country. In the "AIPA Research for the Future: Artificial Intelligence Perception in Society", which is conducted with 1135 people, the society's point of view on artificial intelligence was questioned in a wide range; from fears to professions, from sectoral changes to being accountable to the law. The inclusion of individuals especially starting from the age of 14 up to the age of 45 is critical in terms of profiling the future of artificial intelligence in Turkey. 10 years from now, in a world where the professions of the future are practiced and artificial intelligence has become a normal element of life, 14-year-old individuals will represent the young working segment, and the 45-year-old individuals will represent the segment that tries to adapt and live with this technology. Therefore, both parties' current stance and perspective will affect the adaptation and compatibility on an individual basis and influence the development and global competitiveness on a social basis in the world of the future shaped by artificial intelligence.

We would like to express our thanks to the Founder of Kuantum Araştırma and Advisory Board Member Volkan Kılıç and his team, our AIPA Advisory Board Member Dr. Şebnem Özdemir, our AIPA Vice President Gökhan Varan, and our AIPA Researchers Nevin Akarsu and Rüveyda Varan for enabling the conduct of such a critical and comprehensive research.

The future will be shaped by those who plan it already. Therefore, the presence of artificial intelligence as a development element depends on the meticulous planning of the perception, processes and policies.

Kind regards.

Zafer Küçükşabanoğlu

Artificial Intelligence Policies Association (AIPA) Founder and Chairman

Zafer Küçükşabanoğlu - Artificial Intelligence Policies Association (AIPA) Founder and Chairman

Gökhan Varan - Artificial Intelligence Policies Association (AIPA) Vice Chairman

Dr. Şebnem Özdemir - Artificial Intelligence Policies Association (AIPA) Vice Chairman

Nevin Akarsu - Artificial Intelligence Policies Association (AIPA) Researcher on Education

Rüveyda Varan - Artificial Intelligence Policies Association (AIPA) Researcher on Legal Issues

Volkan Kılıç – Founder of Kuantum Araştırma & Artificial Intelligence Policies Assoc. (AIPA) Board Member

Selver Güngör Reis - Kuantum Araştırma, Customer Relations Manager

Murat Ünsal - Kuantum Araştırma, Customer Relations Director

Merve Karakullukçu - Kuantum Araştırma, Analyst

Bahar Coşar - Kuantum Araştırma, Junior Research Specialist

Yelda Pulat - Kuantum Araştırma, Operations Director

Burcu Aksu - Kuantum Araştırma, Research Specialist

Quantum Research conducts researches in accordance with international standards and procedures determined for market researches.

Kuantum Araştırma manages the research processes by respecting the statistics, without compromising on quality and scientific methods.

Kuantum Araştırma is a member of **Turkish Researchers' Association,**
has **Trustworthy Research Certificate** (GAB 2019-2020), **ISO 20252 Certificate of Quality** and
ISO 27001 Information Security Management Certificate.

Methodology

Research on Artificial Intelligence Perception
Summary of Methodology

AIPA
YAPAY ZEKA POLİTİKALARI DERNEĞİ

Kuantum
ARAŞTIRMA
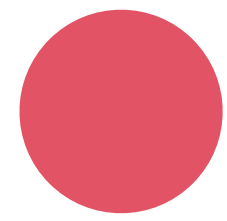
To research and analyze artificial intelligence perception on the masses.

Objective
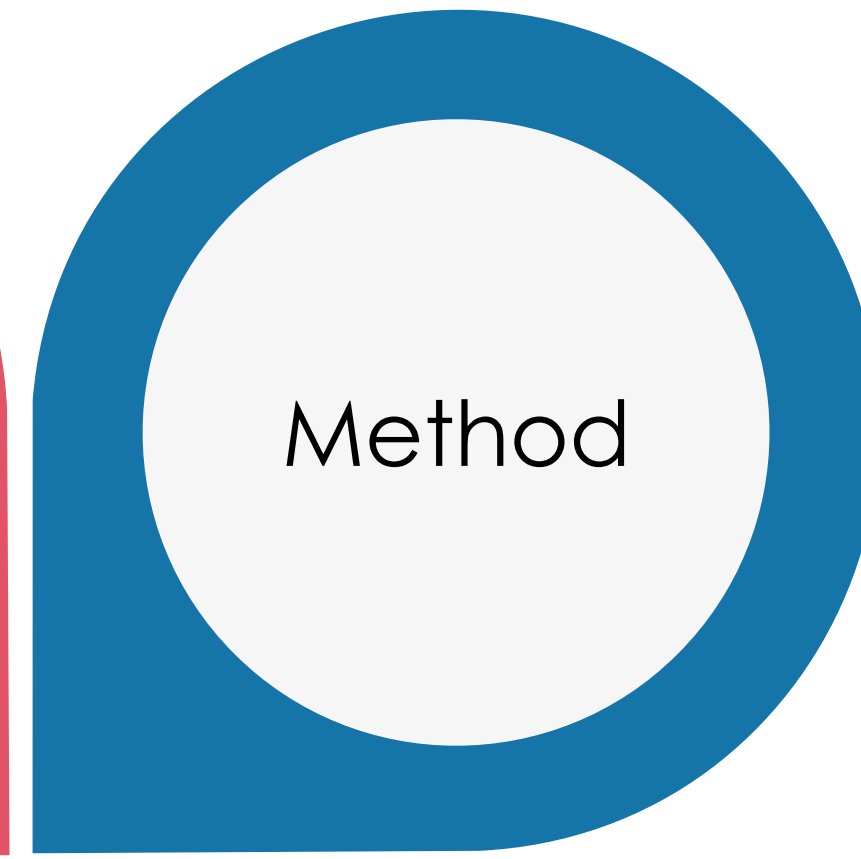
Method

Quantitative Research
Hybrid (CAWI and CATI) methods are applied.
CAWI (Computer-Assisted Web Interviewing)
CATI (Computer-Assisted Telephone Interviewing)
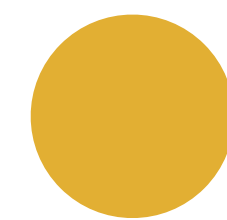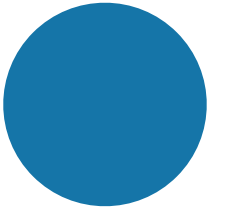
800 citizens,
335 students,
in total 1135 people were interviewed for the research.
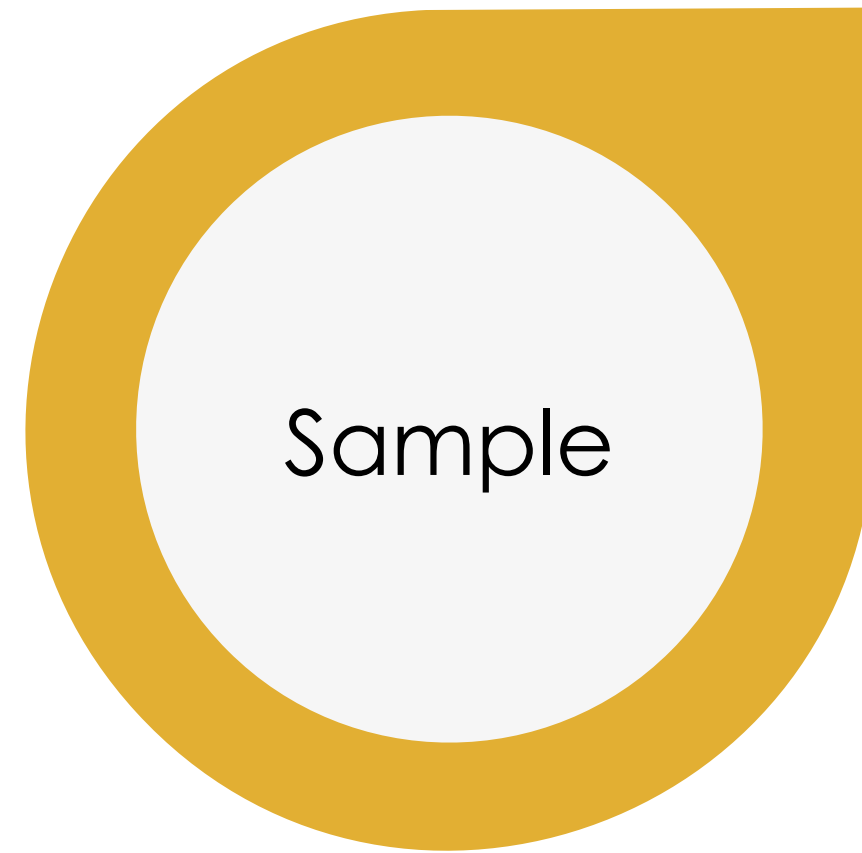
Sample

Calendar

Fieldwork Process
April 8 – 25, 2021
Data Control
April 8 – 25, 2021
Analysis and Reporting
May 2 – 10, 2021
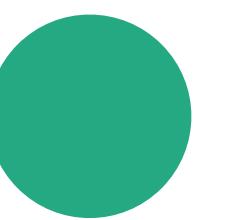
Executive Summary

#AIPAFR

- **Definition of Artificial Intelligence (How the public perceives/identifies/perceives the artificial intelligence)**

A total of 1135 people, 29.5% of whom were students, were asked to define the artificial intelligence. 22.6% of the interviewees stated that they had no idea about artificial intelligence, whilst 21.1% associated artificial intelligence with robots. Robotics is one of the sub-studies of artificial intelligence. The fact that participants use this concept in the same way as artificial intelligence, can be defined as the **Hollywood effect**.

- According to the participants, doctors will be affected most negatively by artificial intelligence (21.8%). The profession of doctors is followed by teachers/instructors, law enforcers, translators, pilots, managers and lawyers, respectively. The main reason why these occupations will be affected is that artificial intelligence can easily integrate into today's way of doing these professions and that it might take over people (56.3%). The way of practicing the profession of doctors will become more qualified.

- The main reason for fear is the thought that robots and artificial intelligence may be dominant in the workforce (13.9%).

- In summary, participants believe that artificial intelligence will significantly reduce the employment in these occupations.

- 7.6% of the participants think that artificial intelligence will be more successful than humans in medicine and 5.4% in the education sector.

- Measurements were made through 4 anxiety scales, namely learning (8 variables), replacement at work (6 variables), social anxiety (4 variables), artificial intelligence configuration (3 variables).

- Considering the anxiety scale of learning, the anxiety average of men differs significantly from women. There is no significant difference according to gender in other scales.

- When all scales (learning, replacement at work, social anxiety, artificial intelligence configuration) are analyzed statistically in terms of age groups, the 35-44 age group differs significantly from other age groups.

- This age group also differs significantly in misrecognizing the artificial intelligence and defining it with the Hollywood effect.

When the scales are examined according to SES levels;

- Considering learning, it is observed that people belonging to DE SES group are significantly more anxious than those belonging to AB SES group.

- Considering replacement at work, people belonging to C2 and DE SES groups are more anxious than those belonging to AB SES group.

- Considering social anxiety, people belonging to AB SES group are statistically less anxious than those belonging to all other SES groups (C1, C2 and DE).

Interview Information/Demography

Demographic Characteristics of the Interviewers (%)
General

AIPA
YAPAY ZEKA POLİTİKALARI DERNEĞİ

Kuantum
ARAŞTIRMA

Gender Distribution (%)

45,9

54,1
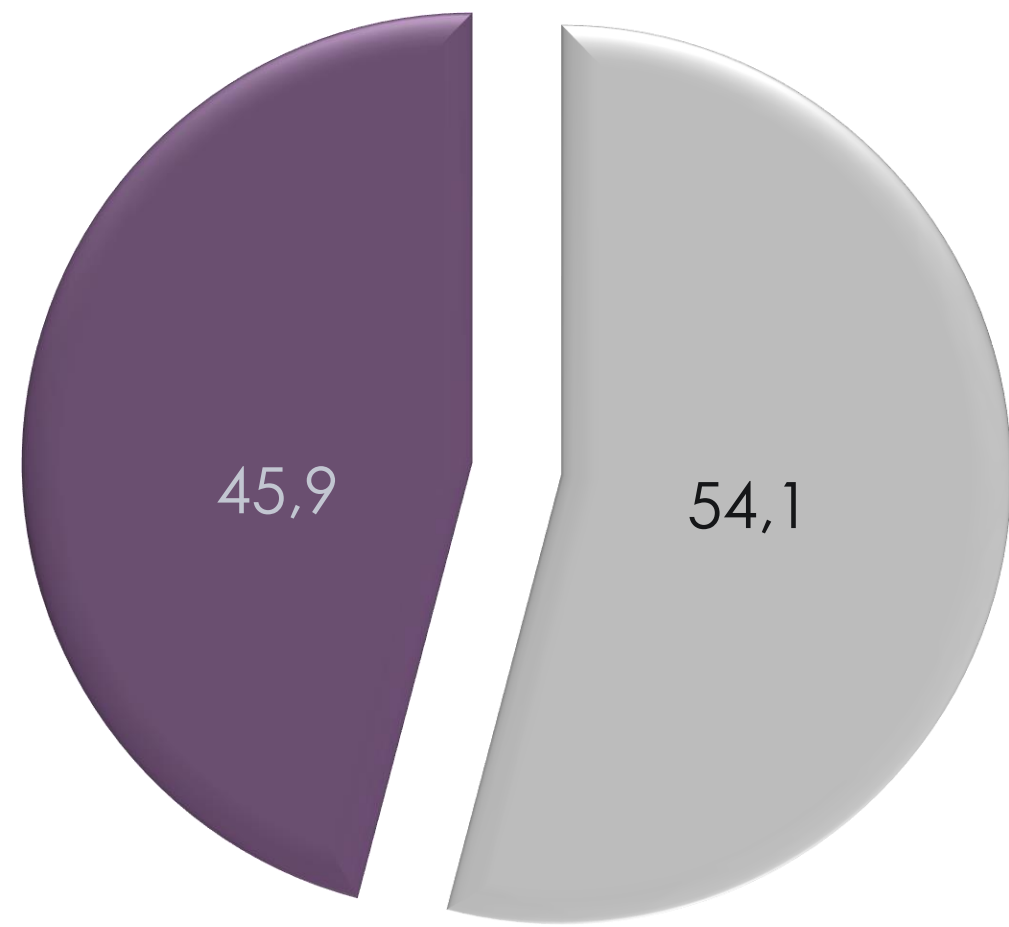
Female
Male

Age Distribution (%)

Age	%
14-18	6,3
19-24	41,0
25-34	26,6
35-44	26,2
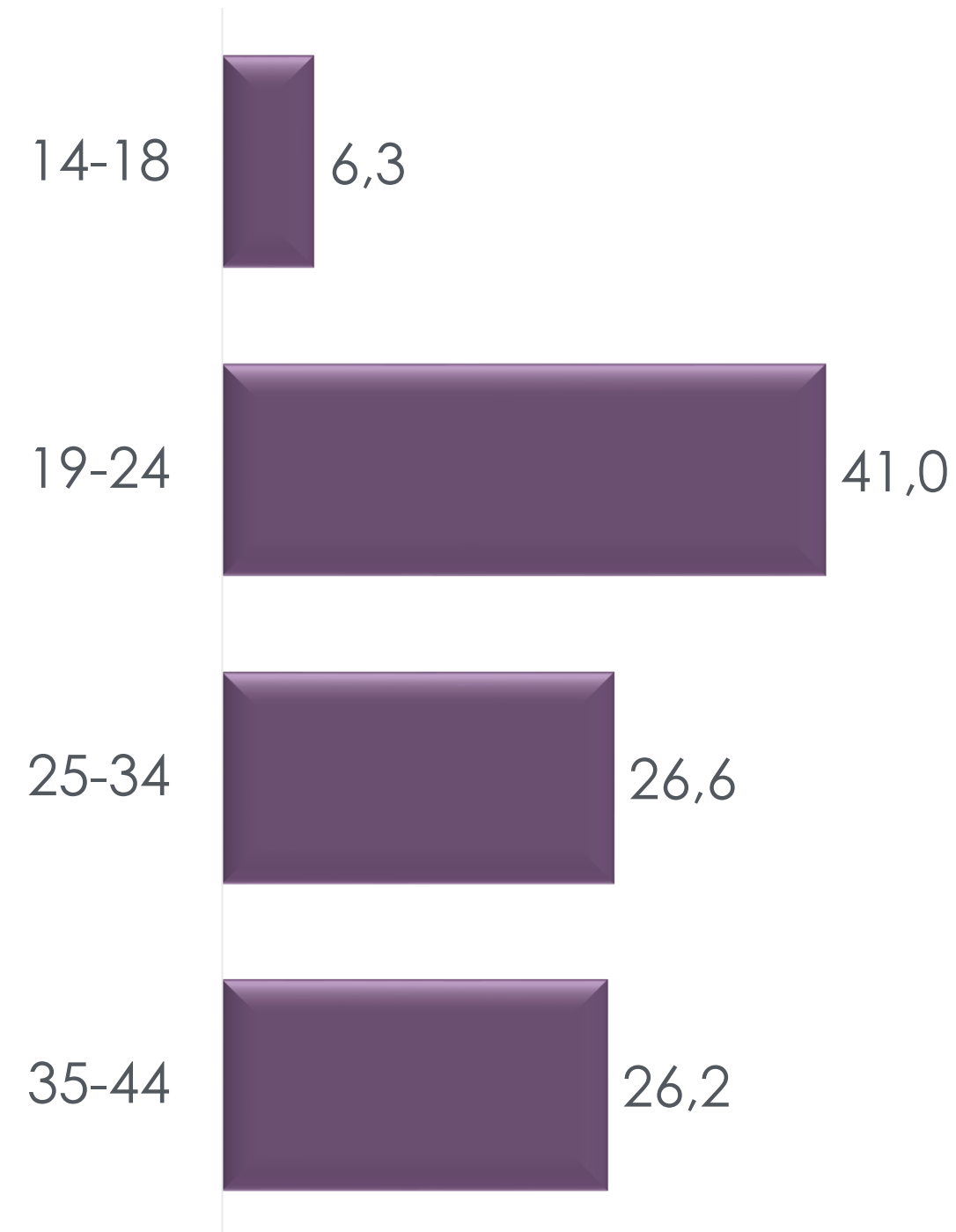
Base	1135

SES Status of the Interviewee (%)

SES	%
A	8,8
B	14,7
C1	23,2
C2	24,4
D	18,1
E	10,8
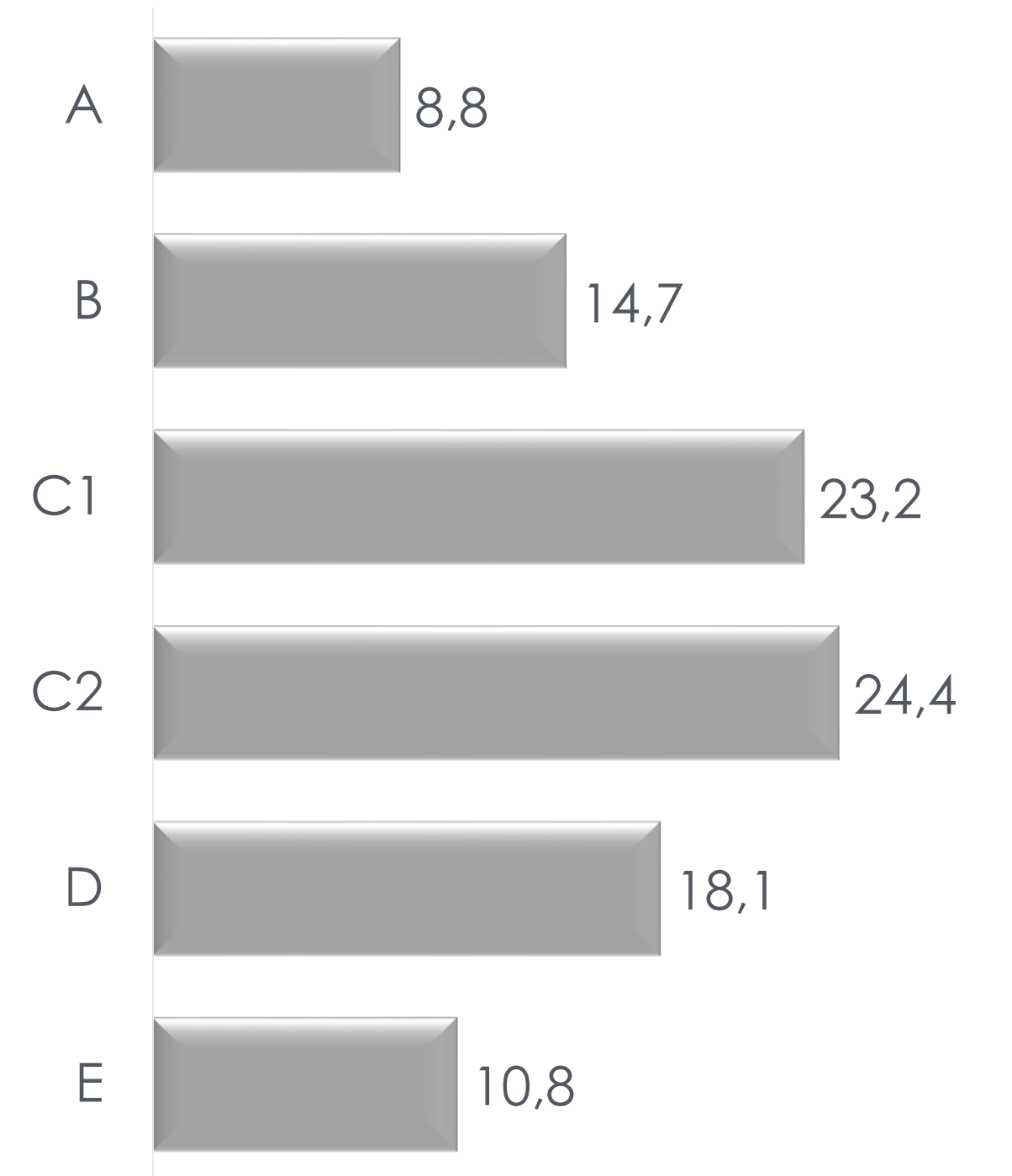
Demographic Characteristics of the Interviewers (%)
Society, Students

AIPA
YAPAY ZEKA POLİTİKALARI DERNEĞİ

Kuantum
ARAŞTIRMA

Gender Distribution (%)

Gender	Value
Male (Students)	36,1
Male (Society)	50,0
Female (Students)	63,9
Female (Society)	50,0

- Students
- Society

Age Distribution (%)

Age	Students	Society
14-18	13,1	3,4
19-24	72,2	27,9
25-34	12,8	32,4
35-44	1,8	36,4

- Students
- Society

SES Status of the Interviewee (%)

SES	Students	Society
A	10,4	8,1
B	11	16,3
C1	17,6	25,5
C2	27,2	23,3
D	18,2	18,0
E	15,5	8,9
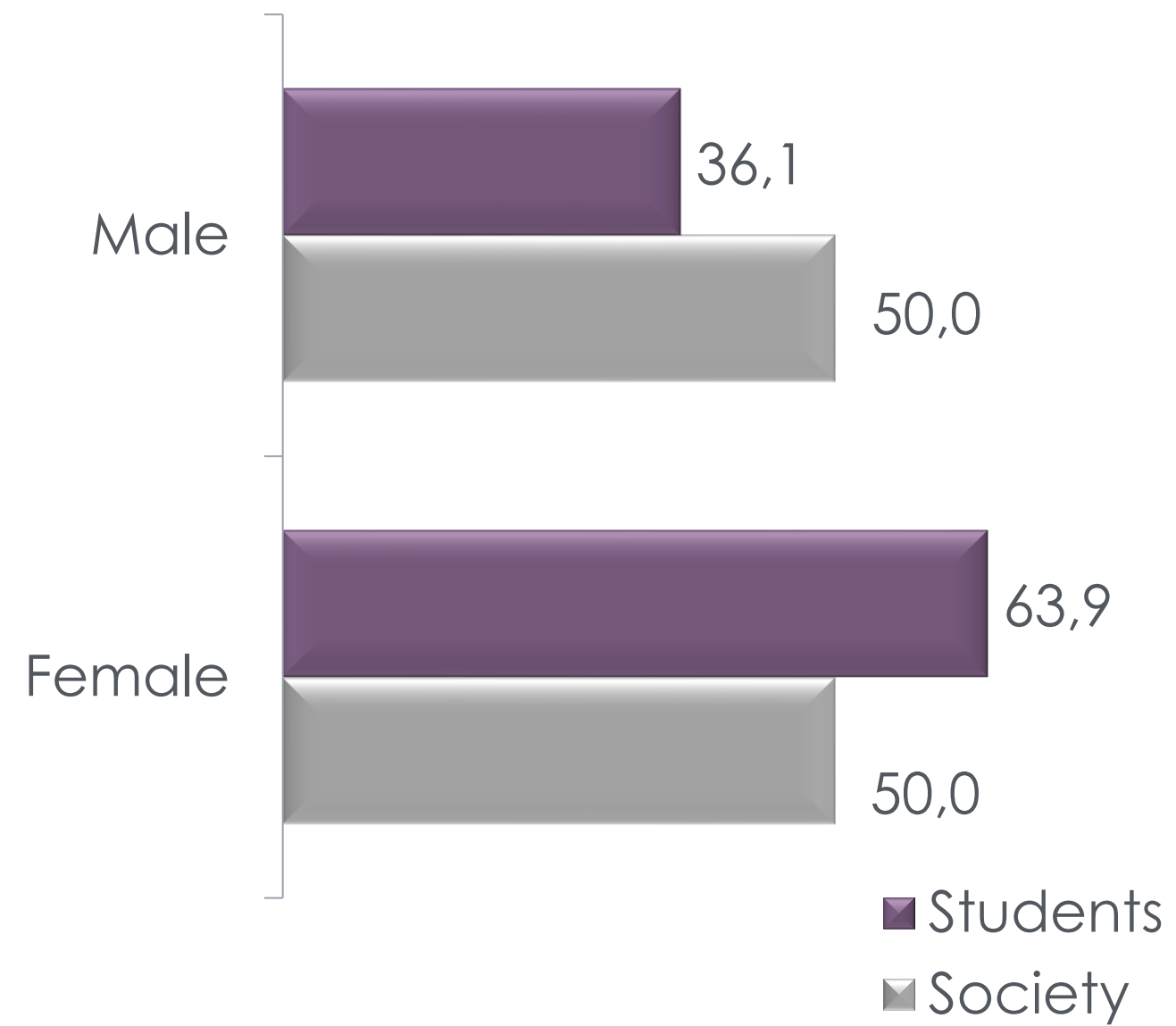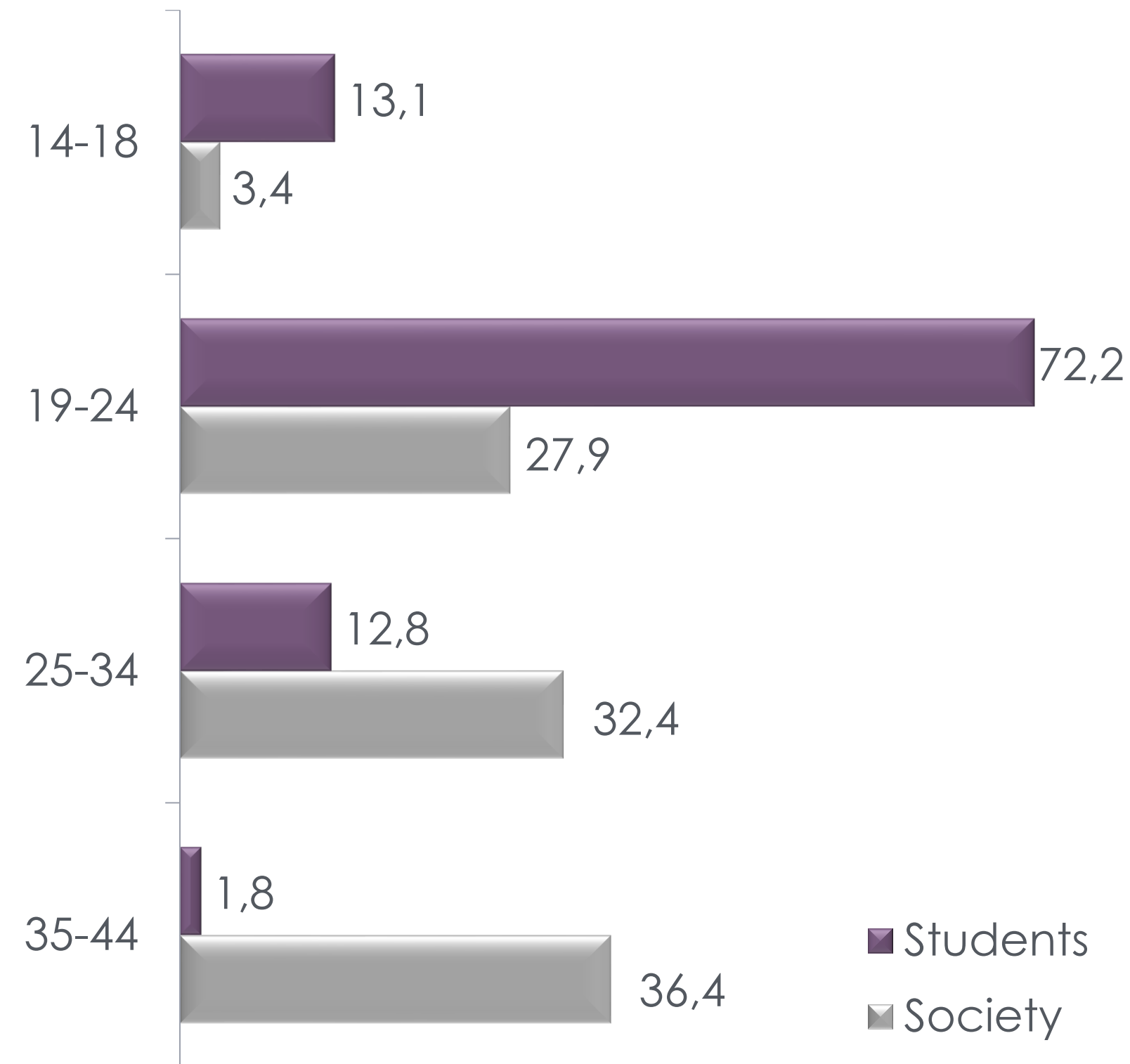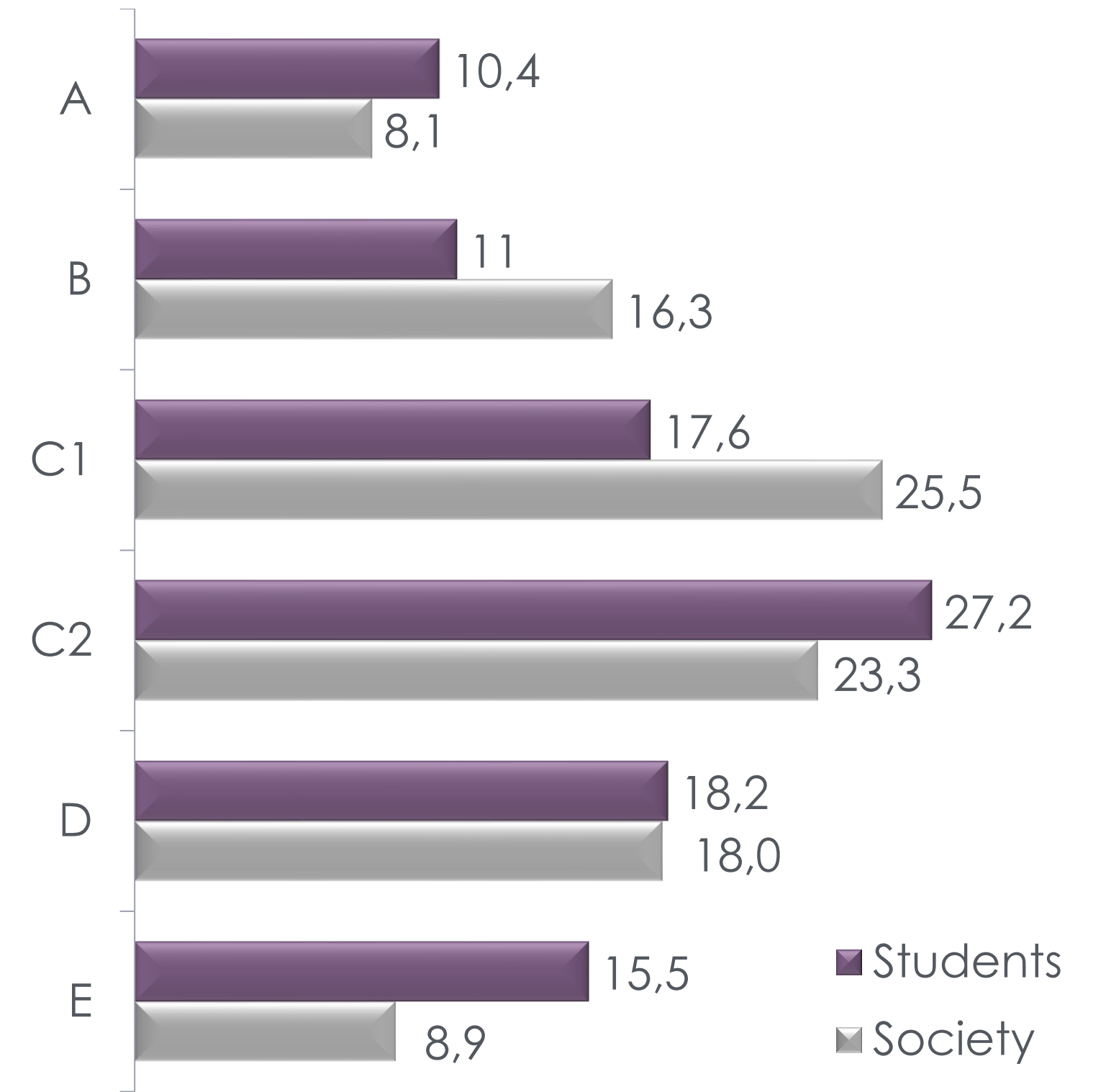
- Students
- Society

	Society	Students
Base	800	335

13
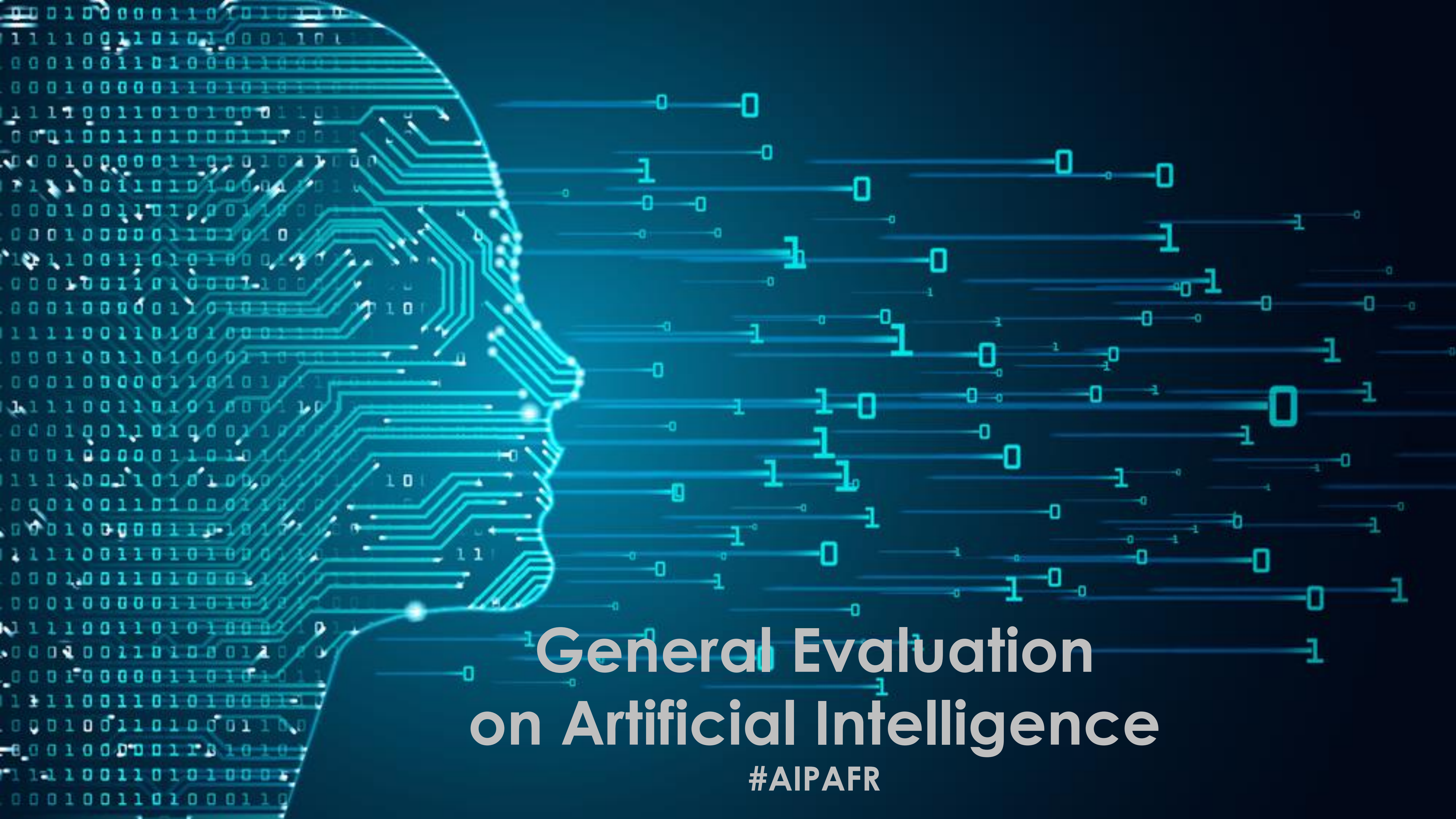
General Evaluation
on Artificial Intelligence

#AIPAFR

Definition of Artificial Intelligence (%)

In your opinion, what is artificial intelligence?
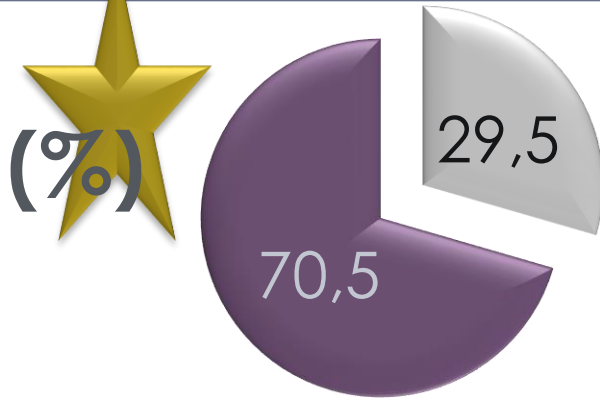
Interviewed Participants (%)
Base: 1135

- Students: 29,5
- Society: 70,5

AIPA — YAPAY ZEKA POLİTİKALARI DERNEĞİ

Kuantum ARAŞTIRMA

21.1% of the interviewees associated artificial intelligence with robots and robotization.
Students believe that artificial intelligence will make their lives easier. 31% of the 14-18 age group (71 people) stated that they do not have an opinion,
whilst 18.3% of them associated artificial intelligence with robots.

General

Category	%
Robots / Robotization / Robot intelligence / Electronic robots close to the human mind	21,1
Computers imitating human / Codified human intelligence / Next generation of humanity	10,4
Computer programs / Intelligence controlled by computers / Algorithmics	7,7
Smart devices / Smartphones, tablets / Self-driving vehicles / Autonomous systems	5,6
Machine learning / Human-like machines	5,0
Technology / The new state of technology	4,5
An invention that makes people's lives easier	4,0
Smart assistants / Siri	3,7
A structure made by humans / Science made by humans	2,8

22.6% of the interviewees had no opinion. 1.1% did not answer. Values below 2.8% are not included in the chart.

Base	1135

Society

Category	%
Robots / Robotization / Robot intelligence / Electronic robots close to the human mind	21,9
Computers imitating human / Codified human intelligence / Next generation of humanity	9,4
Computer programs / Intelligence controlled by computers / Algorithmics	7,6
Smart devices / Smartphones, tablets / Self-driving vehicles / Autonomous systems	7,1
Machine learning / Human-like machines	6,0
Smart assistants / Siri	4,9
An invention that makes people's lives easier	3,6
Technology / The new state of technology	3,6

22.0% of the interviewees had no opinion. 1.4% did not answer. Values below 3.6% are not included in the chart.

Base (Society)	800

Students

Category	%
Robots / Robotization / Robot intelligence / Electronic robots close to the human mind	19,1
Computers imitating human / Codified human intelligence / Next generation of humanity	12,8
Computer programs / Intelligence controlled by computers / Algorithmics	7,8
Technology / The new state of technology	6,6
An invention that makes people's lives easier	4,8
A structure made by humans / Science made by humans	3,9
Useful for the future / Life source for future generations / New age	3,6
Machine learning / Human-like machines	2,7
Smart devices / Smartphones, tablets / Self-driving vehicles / Autonomous systems	2,1

24.2% of the interviewees had no opinion. 0.3% did not answer. Values below 2.1% are not included in the chart.

Base (Students)	335

Definition of Artificial Intelligence (%)

In your opinion, what is artificial intelligence?

Age Breakdown

Robots / Robotization / Robot intelligence / Electronic robots close to the human mind
- 35-44: 21,5
- 25-34: 22,2
- 19-24: 20,4
- 14-18: 18,3

Computers imitating human / Next generation of humanity / Technology impersonating human
- 35-44: 7,1
- 25-34: 13,2
- 19-24: 11,0
- 14-18: 8,5

Smart devices / Smartphones, tablets / Self-driving vehicles / Autonomous systems
- 35-44: 13,8
- 25-34: 4,3
- 19-24: 0,9
- 14-18: 8,5

Technology / The new state of technology
- 35-44: 2,4
- 25-34: 4,3
- 19-24: 5,6
- 14-18: 7,0

Computer programs / A type of intelligence developed with computer technology / Algorithmics
- 35-44: 11,4
- 25-34: 7,0
- 19-24: 6,0
- 14-18: 5,6

A structure made by humans / Science made by humans
- 35-44: 0,3
- 25-34: 3,0
- 19-24: 4,1
- 14-18: 4,2

Machine learning / Human-like machines
- 35-44: 8,8
- 25-34: 5,3
- 19-24: 1,8
- 14-18: 2,8

Legend: 35-44, 25-34, 19-24, 14-18

	14-18	19-24	25-34	35-44
Base	71	465	302	297

25-34 and 35-44 age groups differ significantly from other age groups in associating artificial intelligence with robots (Hollywood effect).

Gender Breakdown

Robots / Robotization / Robot intelligence / Electronic robots close to the human mind
- Male: 18,0
- Female: 23,6

Computers imitating human / Next generation of humanity / Technology impersonating human
- Male: 10,6
- Female: 10,3

Computer programs / A type of intelligence developed with computer technology / Algorithmics
- Male: 9,0
- Female: 6,5

Smart devices / Smartphones, tablets / Self-driving vehicles / Autonomous systems
- Male: 6,0
- Female: 5,4

Technology / The new state of technology
- Male: 4,4
- Female: 4,6

An invention that makes people's lives easier
- Male: 4,4
- Female: 3,6

Machine learning / Human-like machines
- Male: 6,9
- Female: 3,4

A structure made by humans / Science made by humans
- Male: 2,7
- Female: 2,9

Legend: Male, Female

	Female	Male
Base	614	521

- *Age Breakdown chart is sorted by 14-18 age range. Not all results are included in the chart.*
- *Gender Breakdown chart is ranked according to female interviewees. Not all results are included in the chart.*

Fear of Artificial Intelligence, Degree of Fear and Reasons for Fear (%)

- Are you afraid of artificial intelligence in general?
- Would you please rate your degree of fear of artificial intelligence? Please keep in mind that 1- I am too scared, 5- I am a little scared.
- Would you please indicate your reasons for your fear of artificial intelligence?

21.9% of the interviewees stated that they are afraid of artificial intelligence. The main reason for the fear of artificial intelligence is that robots would increase unemployment. 21.1% of the 14-18 age group (71 people) fear of artificial intelligence.

General

Fear of Artificial Intelligence (%)

78,1

21,9
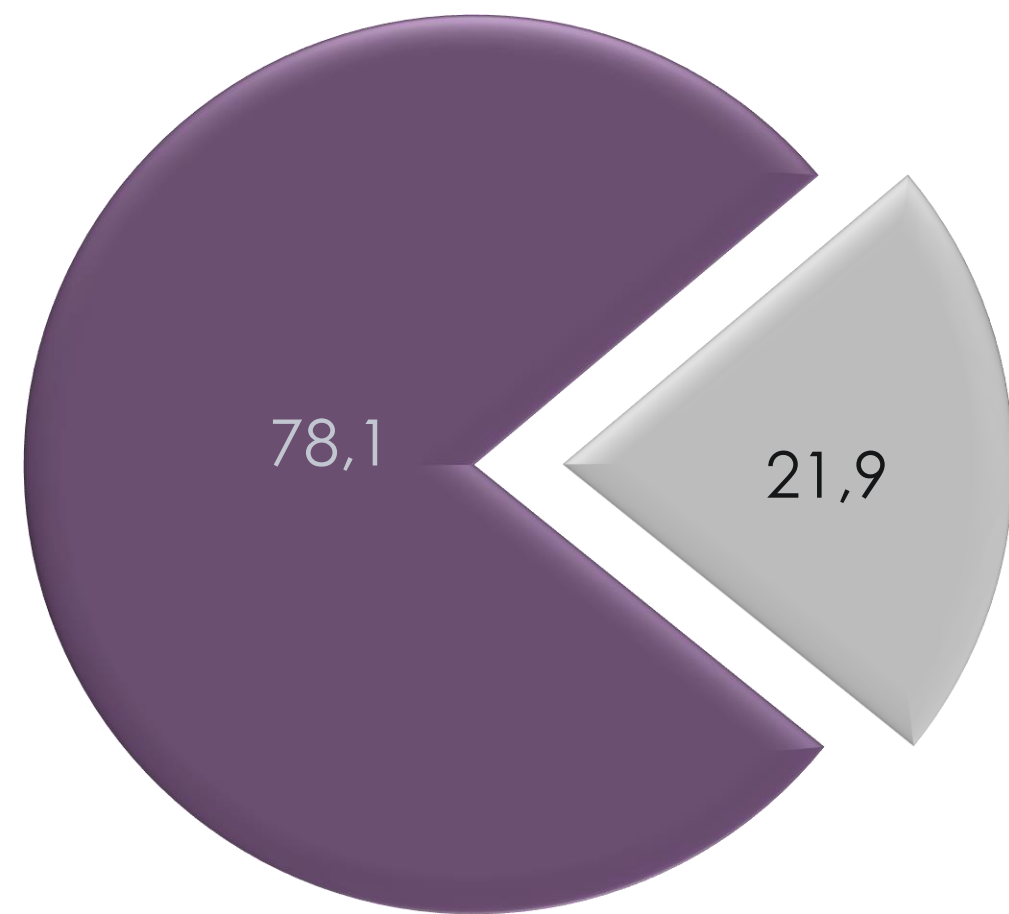
Yes No

Base	1135

Degree of Fear of Artificial Intelligence(%)

I'm too scared — 22,9

4 — 25,7

3 — 32,6

2 — 6,4

I'm a little scared — 12,4
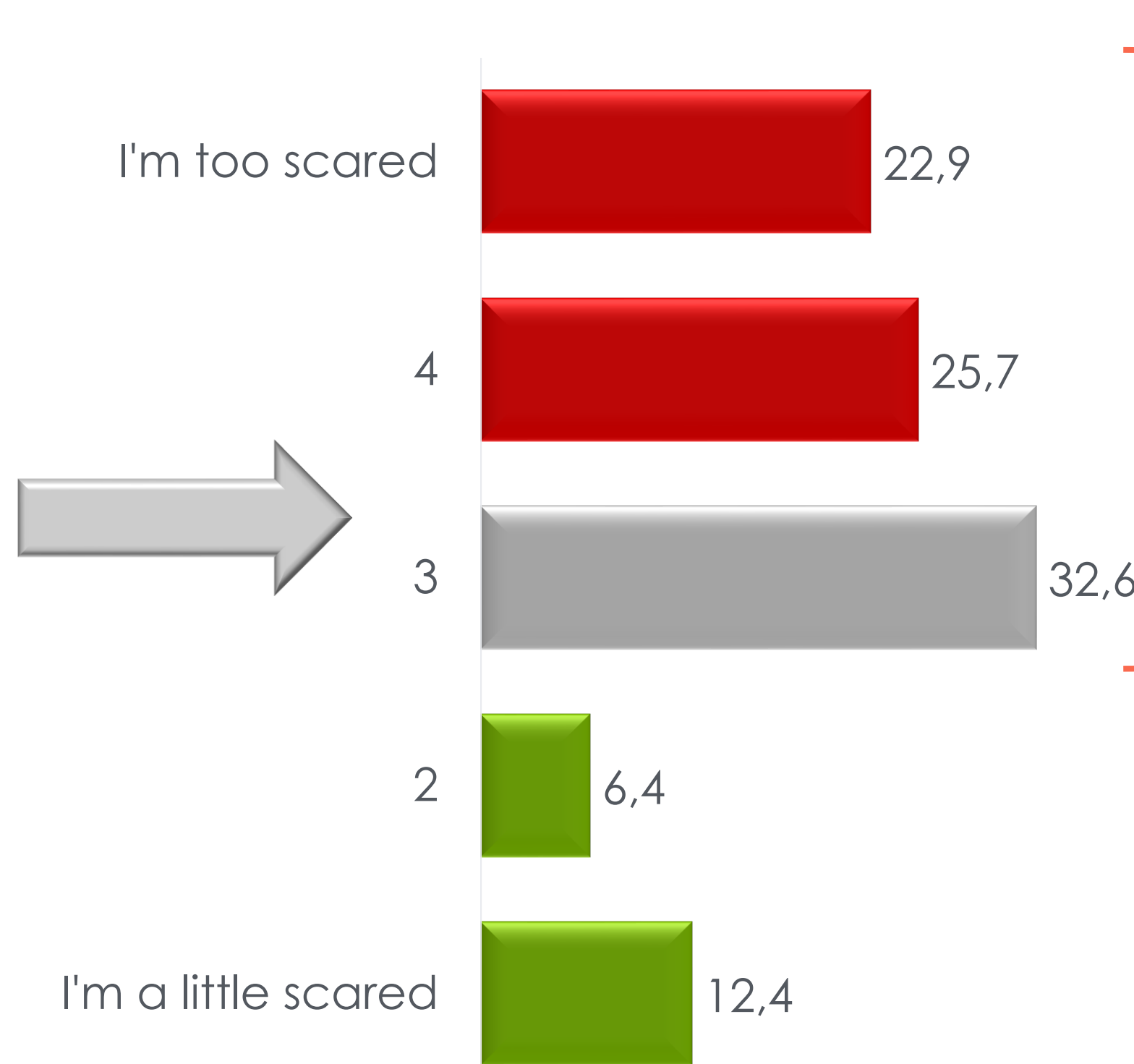
Base (Those who fear of artificial intelligence)	249

Reasons for Fear of Artificial Intelligence (%)

Increasing unemployment / Robots doing our work — 13,9

Looks dangerous / Scary — 12,4

Using it for benefits / Brainwash — 11,4

Human replacement / End of humanity — 10,9

Unknown / I don't know anything about it / Uncertainty / Something new — 10,4

Artificial / Man-made / Emotionless — 8,4

They're inside everything / Personal information is easier to access — 7,9

It is possible for something produced by man to have the ability to seize man — 5,4

Because it is a robot — 4,5
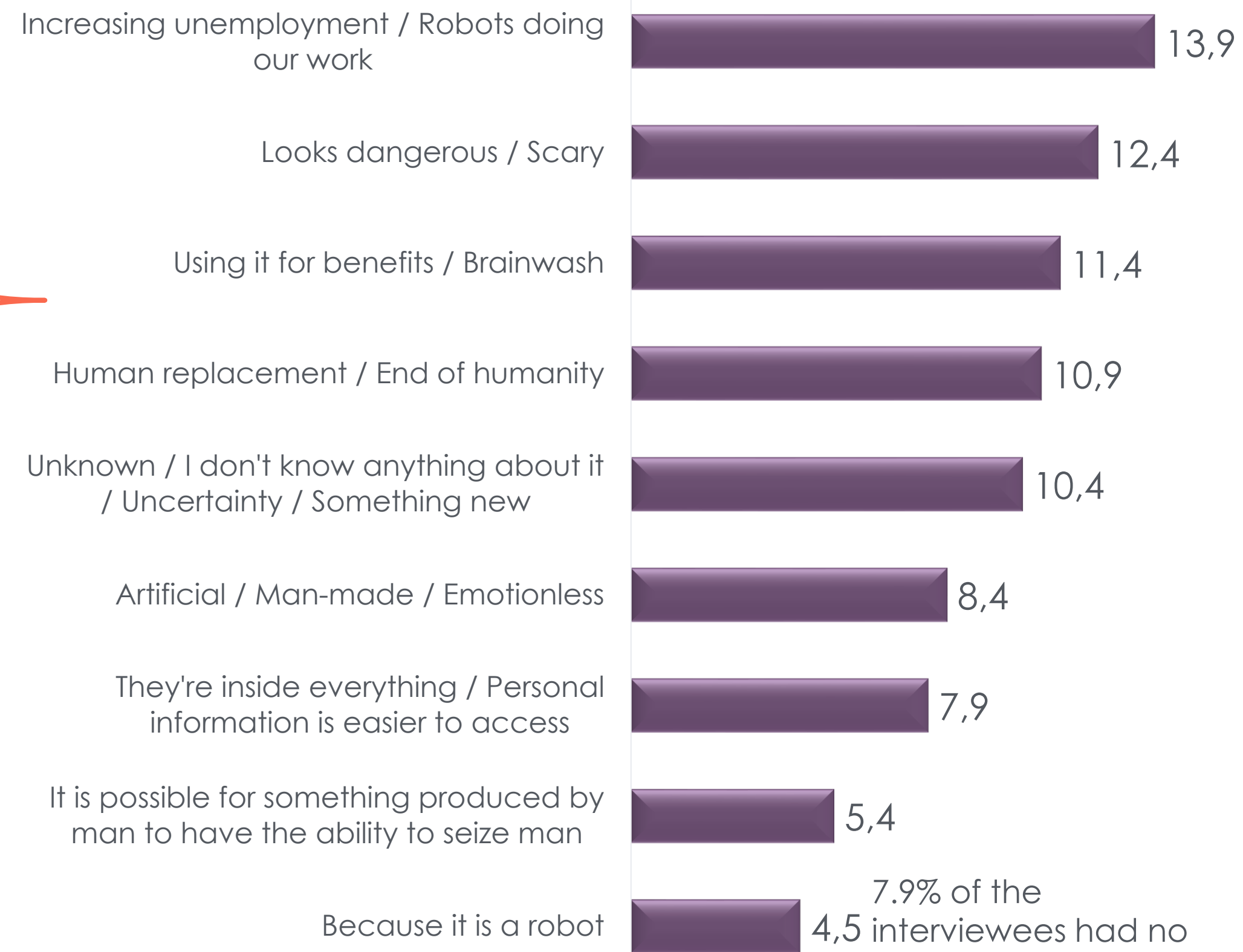
7.9% of the interviewees had no opinion.
1.5% did not answer.
Values below 4.5% are not included in the chart.

Base (I'm too scared, 4.3)	202

17

Fear of Artificial Intelligence, Degree of Fear and Reasons for Fear (%)

- Are you afraid of artificial intelligence in general?
- Would you please rate your degree of fear of artificial intelligence? Please keep in mind that 1- I am too scared, 5- I am a little scared.
- Would you please indicate your reasons for your fear of artificial intelligence?

AIPA YAPAY ZEKA POLİTİKALARI DERNEĞİ

Kuantum ARAŞTIRMA

Society

Fear of Artificial Intelligence (%)

76,9
23,1

Yes No

Base (Society)	800

Degree of Fear of Artificial Intelligence(%)

I'm too scared — 23,8
4 — 29,2
3 — 32,4
2 — 4,9
I'm a little scared — 9,7
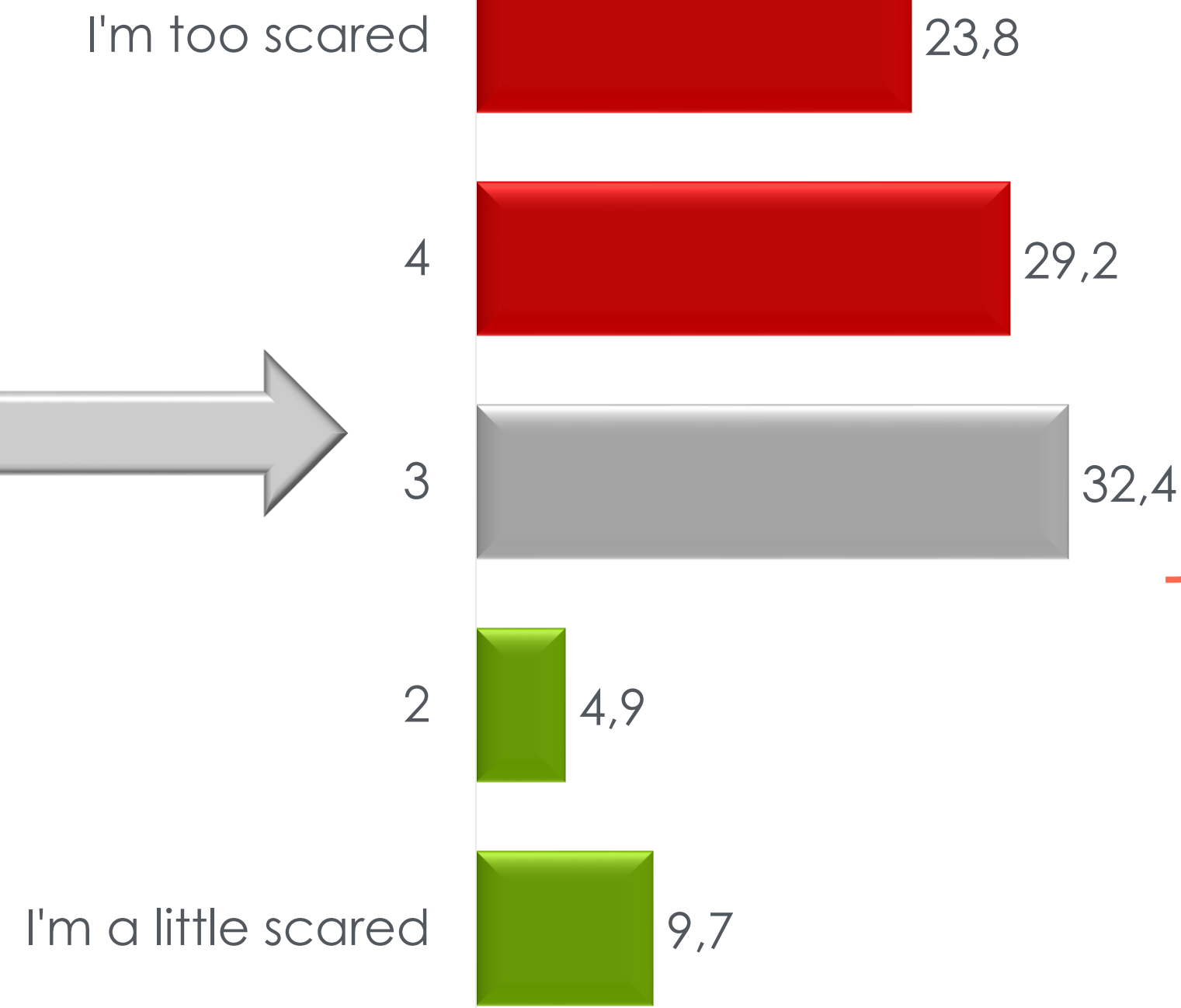
Base (Those who fear of artificial intelligence)	185

Reasons for Fear of Artificial Intelligence (%)

Unknown / I don't know anything about it / Uncertainty / Something new — 12,7
Looks dangerous / Scary — 12,0
Human replacement / End of humanity — 11,4
Increasing unemployment / Robots doing our work — 10,8
Misuse / Using it for benefits / Brainwash — 10,8
Artificial / Man-made / Emotionless — 8,2
They're inside everything / Personal information is easier to access — 7,6
It is possible for something produced by man to have the ability to seize man — 5,7
Because it is a robot — 5,1

7.6% of the interviewees had no opinion.
1.3% did not answer.

Values below 5.1% are not included in the chart.

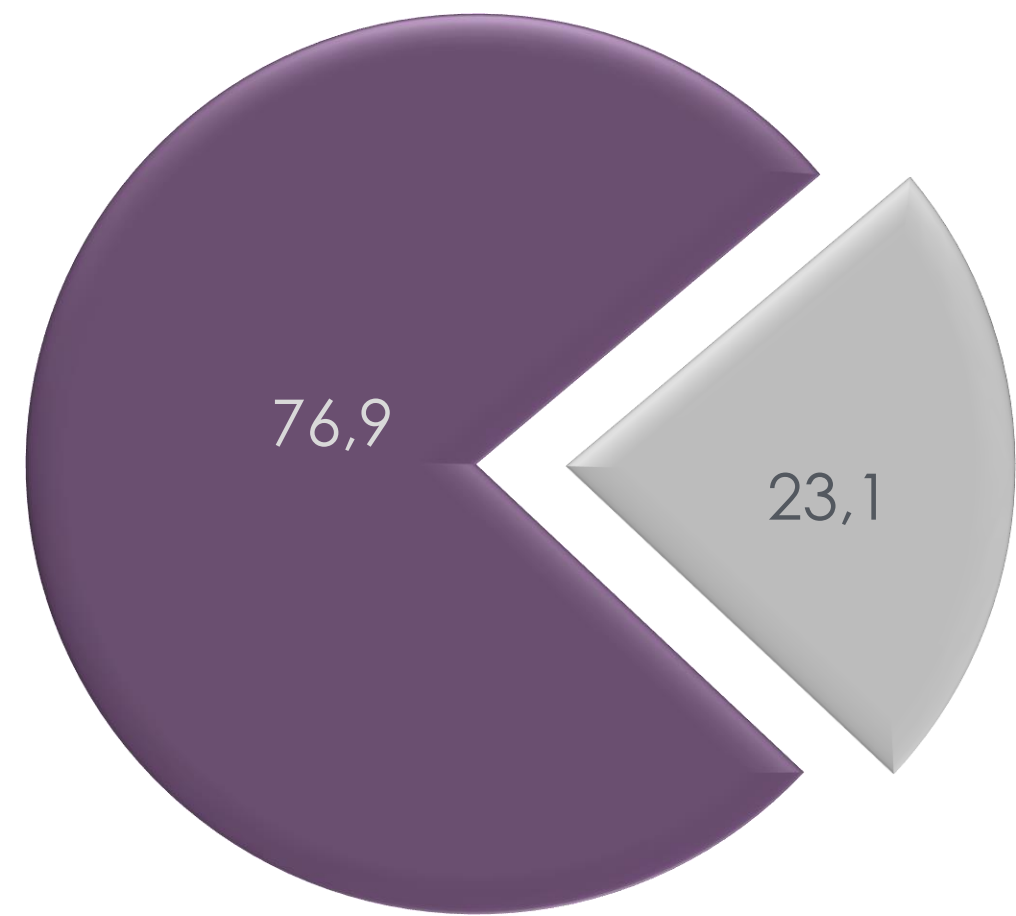| Base (I'm too scared, 4.3)	158

18

Fear of Artificial Intelligence, Degree of Fear and Reasons for Fear (%)

- Are you afraid of artificial intelligence in general?
- Would you please rate your degree of fear of artificial intelligence? Please keep in mind that 1- I am too scared, 5- I am a little scared.
- Would you please indicate your reasons for your fear of artificial intelligence?

AIPA YAPAY ZEKA POLİTİKALARI DERNEĞİ

Kuantum ARAŞTIRMA

Students

Fear of Artificial Intelligence (%)

80,9

19,1

☑ Yes ■ No

Base (Students)	335

Degree of Fear of Artificial Intelligence(%)

I'm too scared	20,3
4	15,6
3	32,8
2	10,9
I'm a little scared	20,3
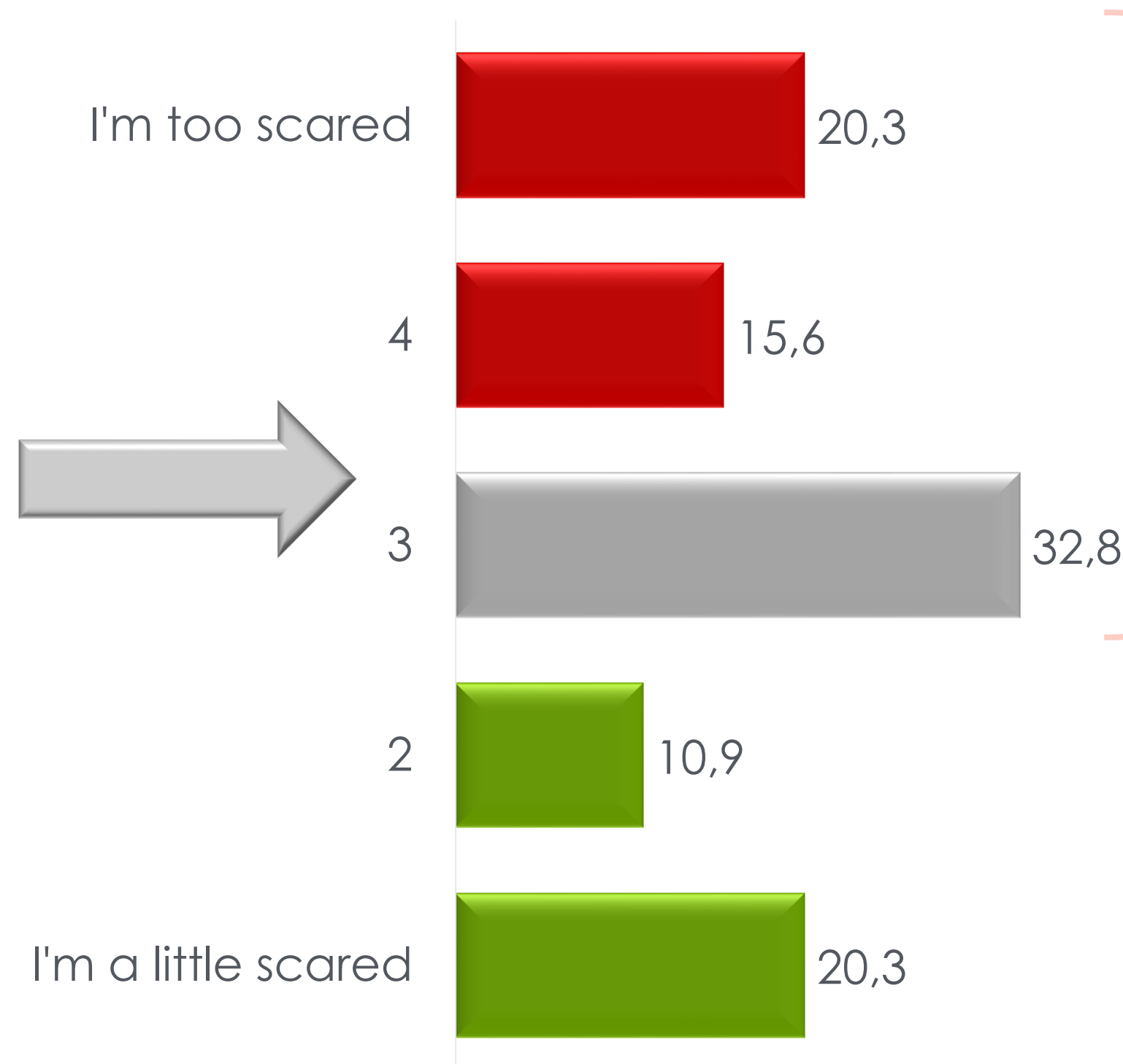
Base (Those who fear of artificial intelligence)	64

Reasons for Fear of Artificial Intelligence (%)

Increasing unemployment / Robots doing our work	25,0
Misuse / Using it for benefits / Brainwash	13,6
Looks dangerous / Scary	13,6
Artificial / Man-made / Emotionless	9,1
They're inside everything / Personal information is easier to access	9,1
Human replacement / End of humanity	9,1
It is possible for something produced by man to have the ability to seize man	4,5
Because it is a robot	2,3
Unknown / I don't know anything about it / Uncertainty / Something new	2,3

9.1% of the interviewees had no opinion.
2.3% did not answer.

Values below 2.3% are not included in the chart.

Base (I'm too scared, 4.3)	44

Fear of Artificial Intelligence, Degree of Fear and Reasons for Fear (%)
- Are you afraid of artificial intelligence in general?
- Would you please rate your degree of fear of artificial intelligence? Please keep in mind that
  1- I am too scared, 5- I am a little scared.
- Would you please indicate your reasons for your fear of artificial intelligence?
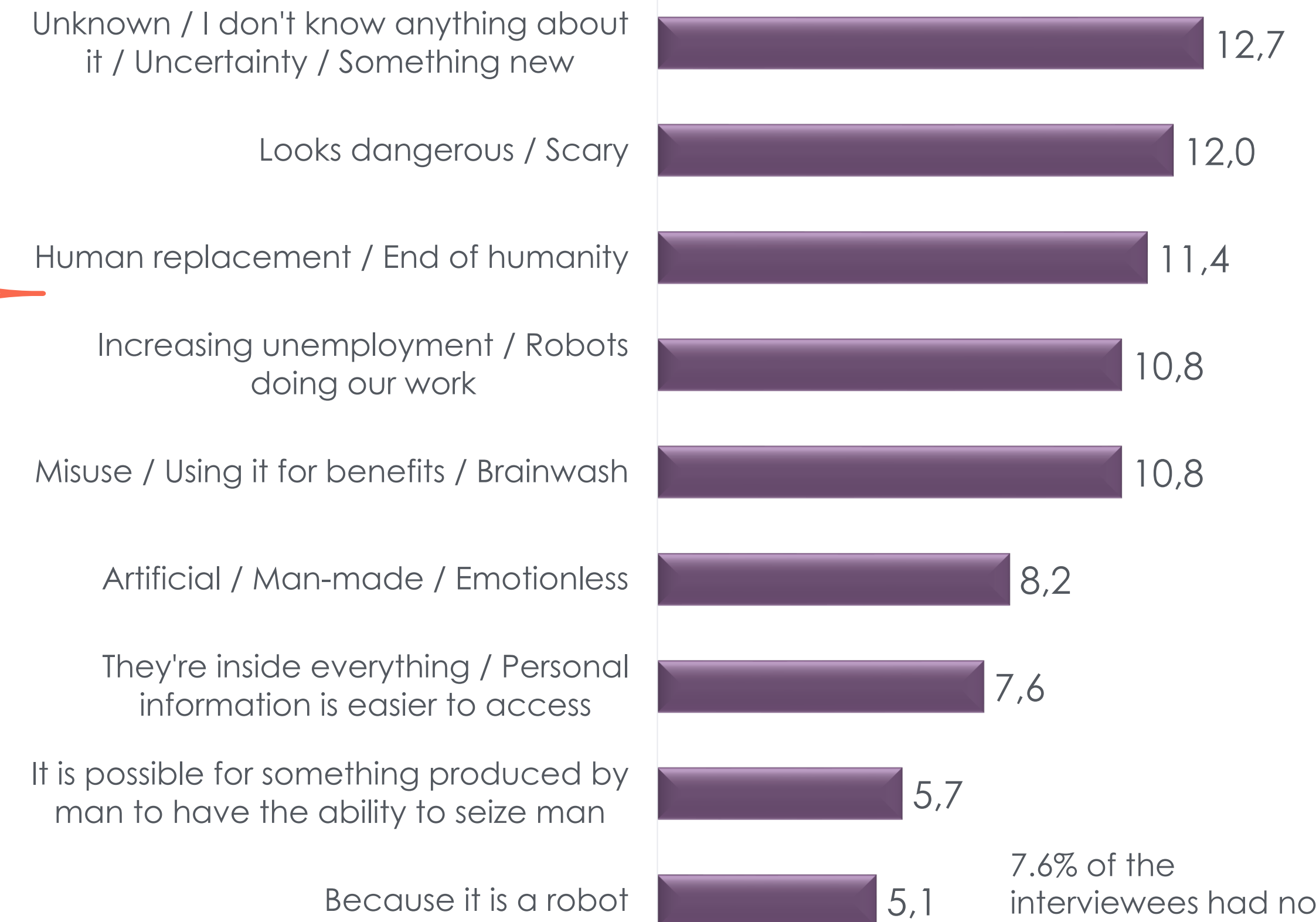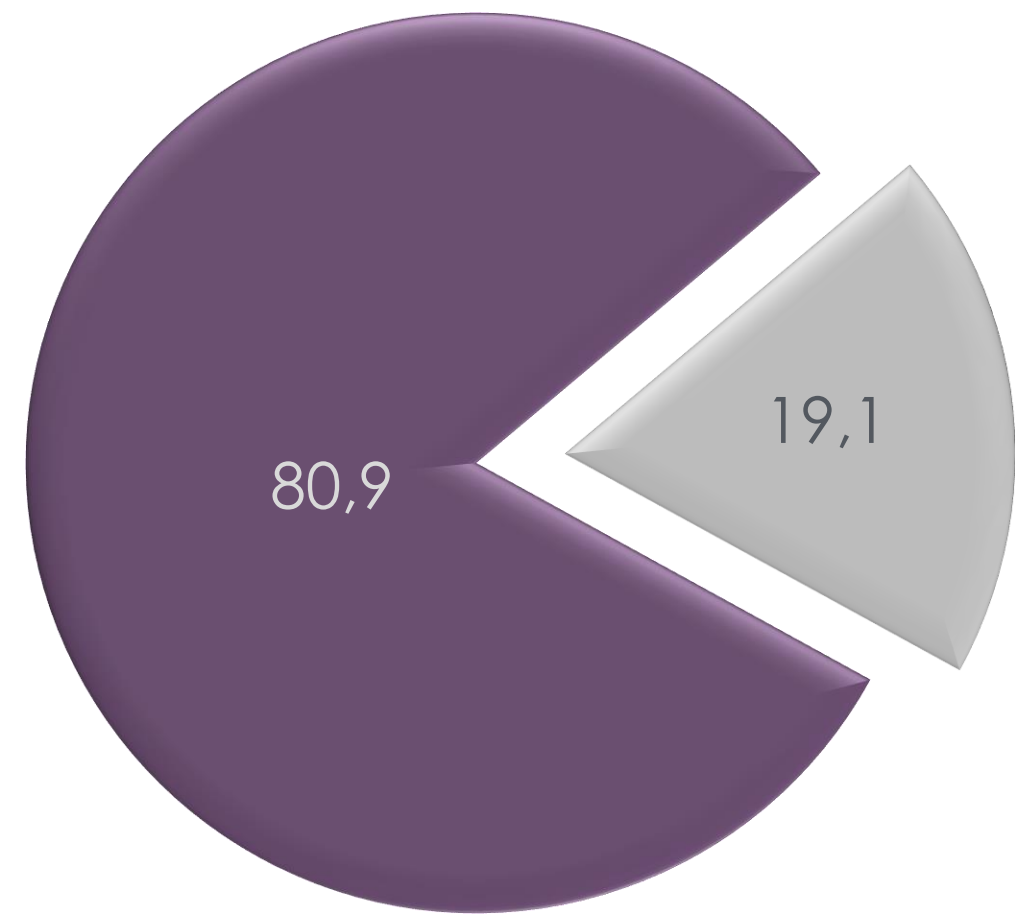
What is artificial intelligence?
Those, who don't have an opinion

Fear of Artificial Intelligence (%)

79,6

20,4

Yes   No

Base (Those who don't have an opinion)	269

Degree of Fear
of Artificial Intelligence(%)

I'm too scared — 25,5

4 — 5,5

3 — 25,5

2 — 7,3

I'm a little scared — 36,4

Base (Those who fear of artificial intelligence)	55

Fear of Artificial Intelligence, Degree of Fear and Reasons for Fear (%)

- Are you afraid of artificial intelligence in general?
- Would you please rate your degree of fear of artificial intelligence? Please keep in mind that 1- I am too scared, 5- I am a little scared.
- Would you please indicate your reasons for your fear of artificial intelligence?

What is artificial intelligence?
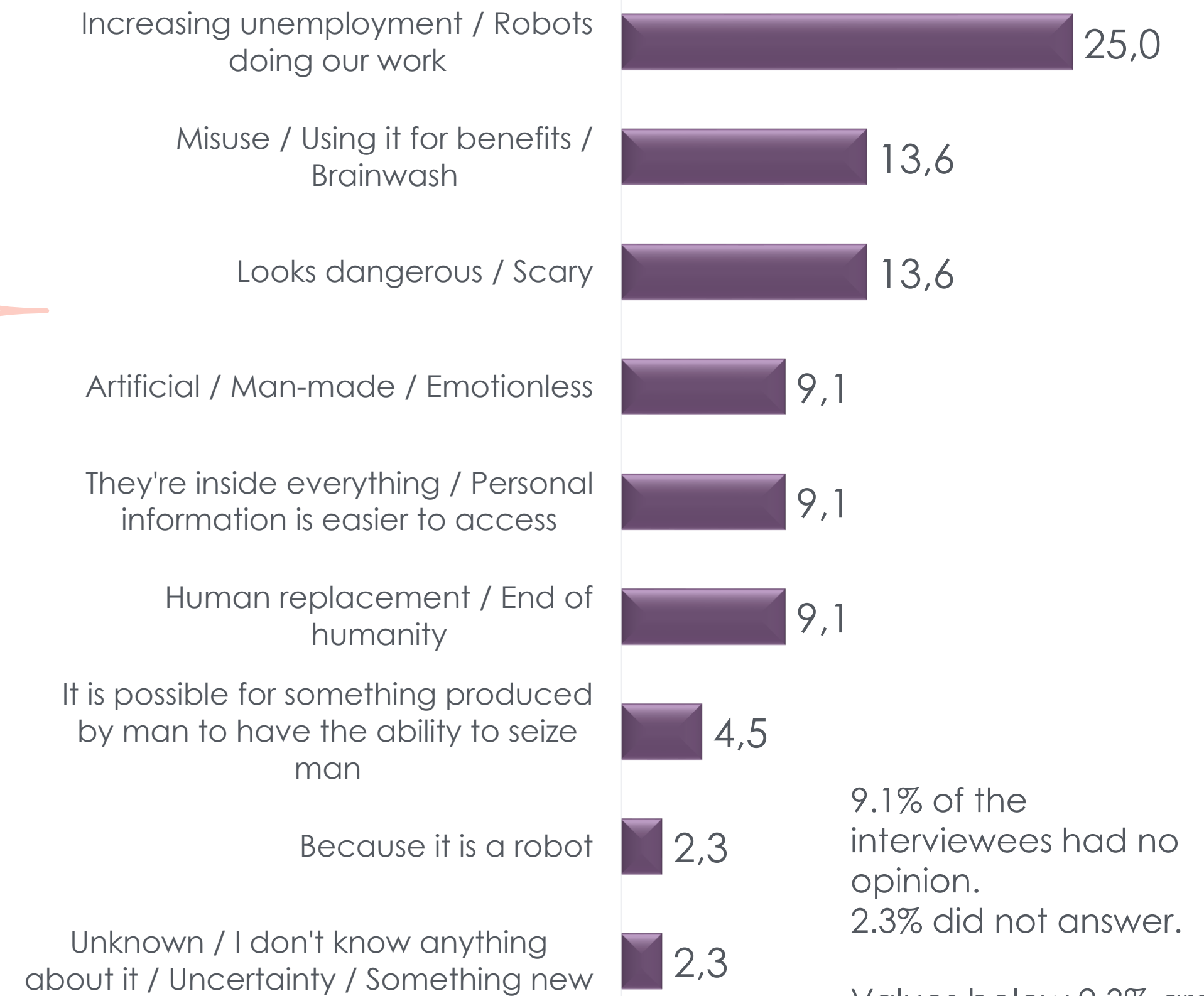**Those who associate AI with robots**

Fear of Artificial Intelligence (%)

79,1

20,9

- Yes
- No
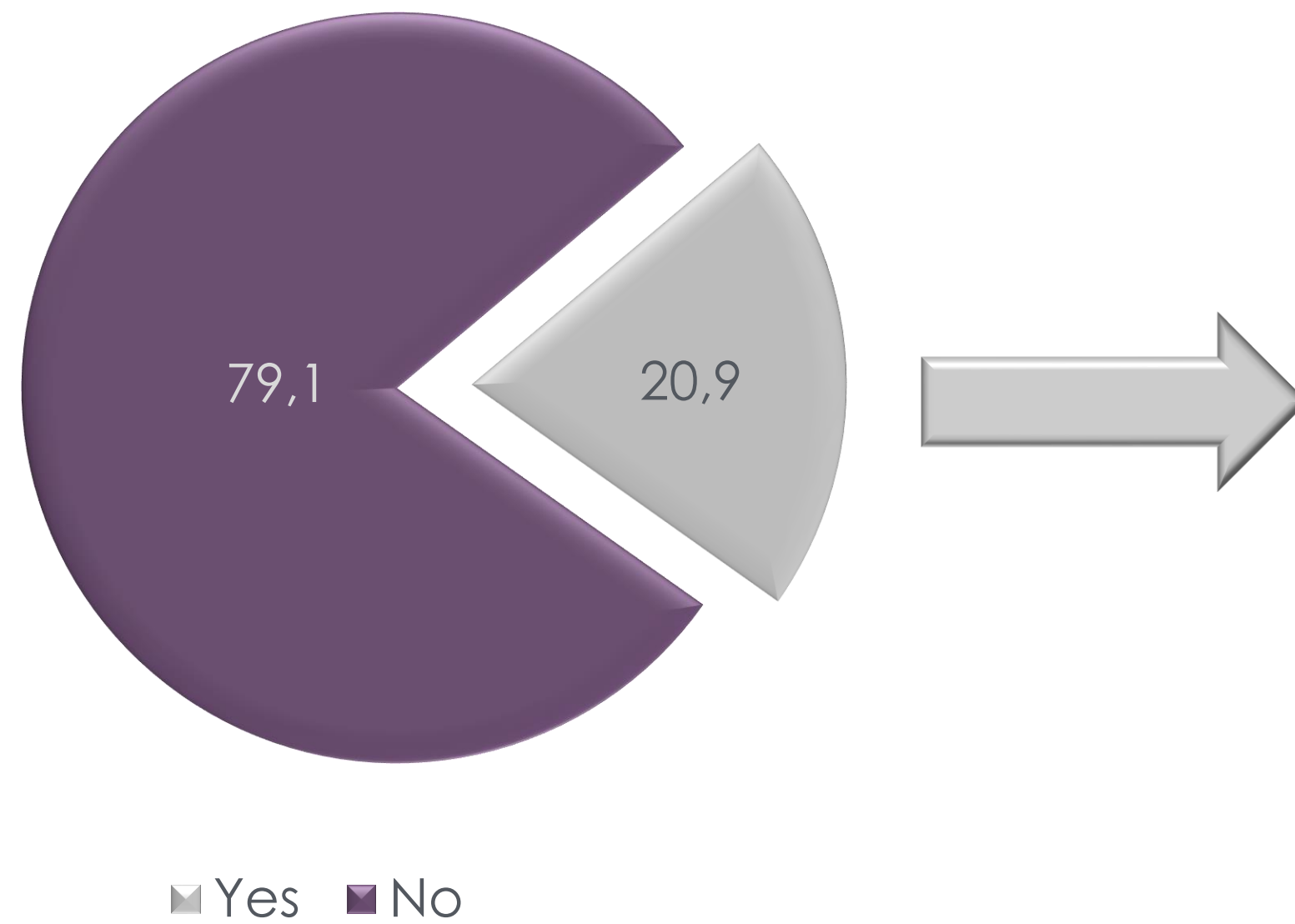
Base (Those who associate AI with robots)	239

Degree of Fear of Artificial Intelligence(%)

I'm too scared	23,5
4	37,3
3	27,5
2	3,9
I'm a little scared	7,8

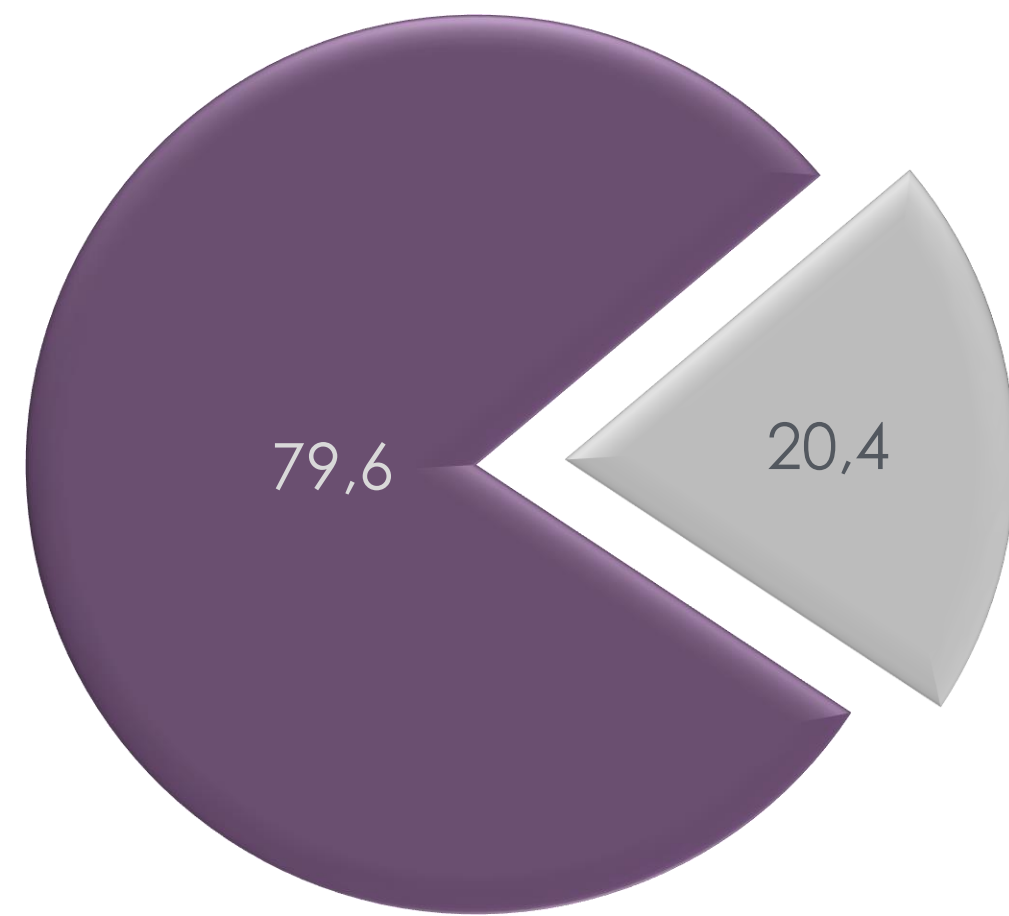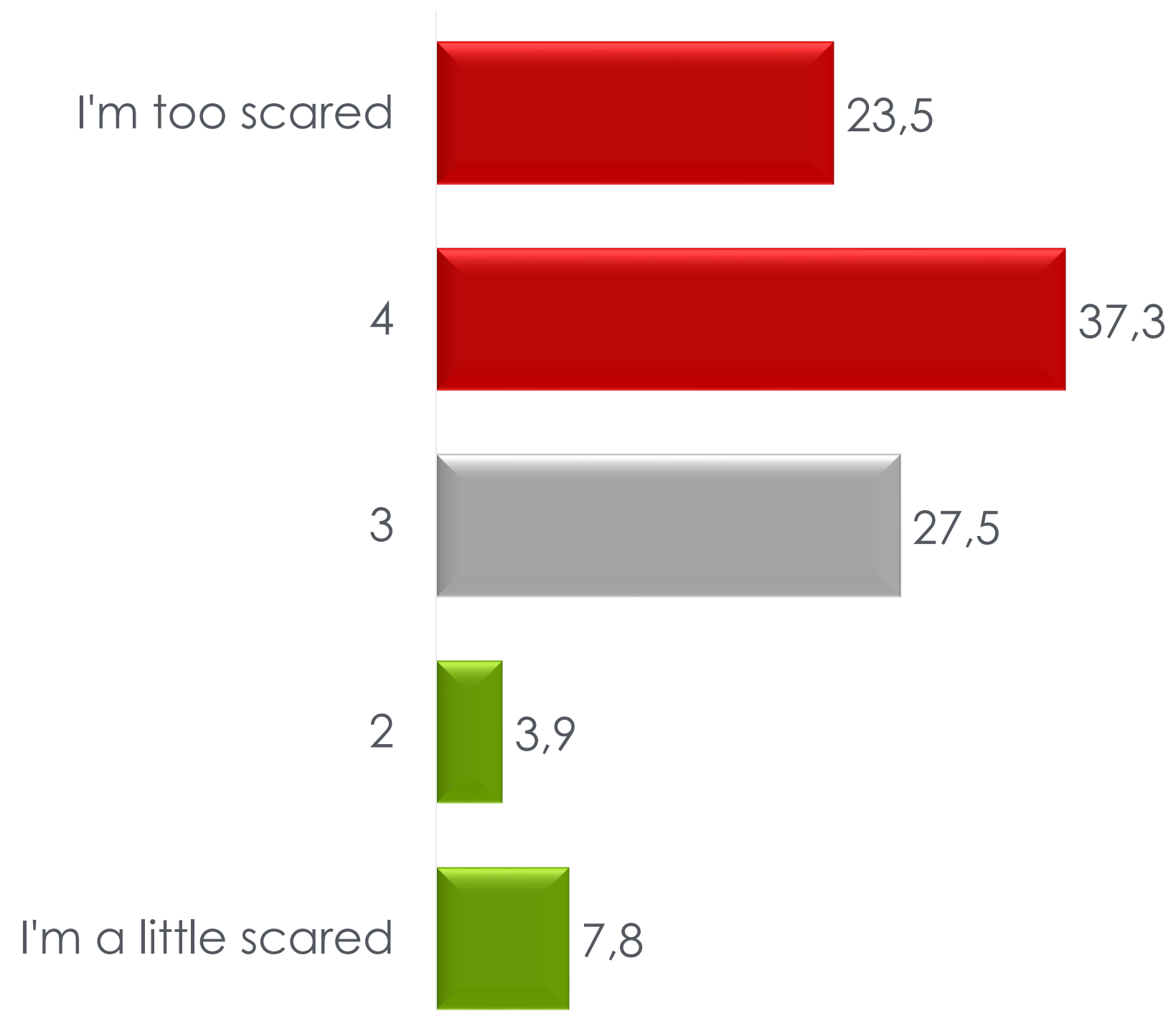| Base (Those who fear of artificial intelligence)	50

Fear of Artificial Intelligence, Degree of Fear and Reasons for Fear (%)

- Are you afraid of artificial intelligence in general?
- Would you please rate your degree of fear of artificial intelligence? Please keep in mind that
  1- I am too scared, 5- I am a little scared.
- Would you please indicate your reasons for your fear of artificial intelligence?

What is artificial intelligence?
Others

Fear of Artificial Intelligence (%)

77,0   23,0
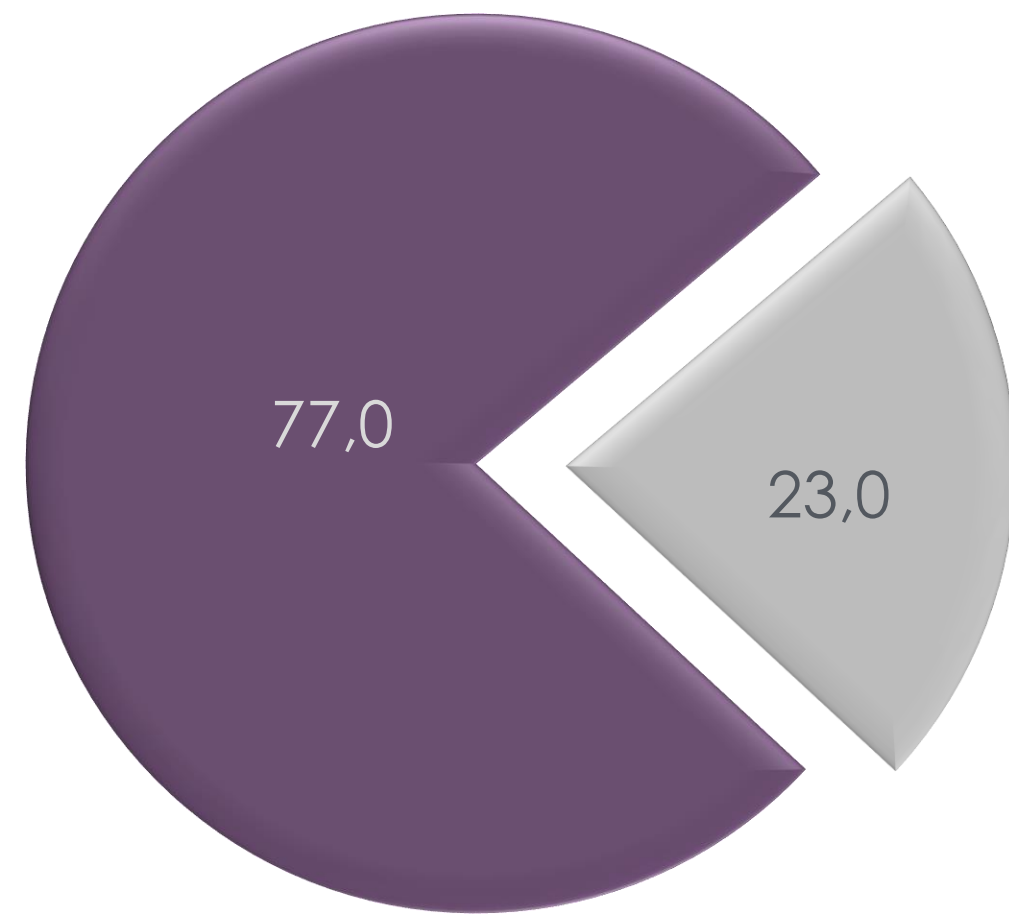
Yes   No

Base (others)	627

**Degree of Fear
of Artificial Intelligence(%)**
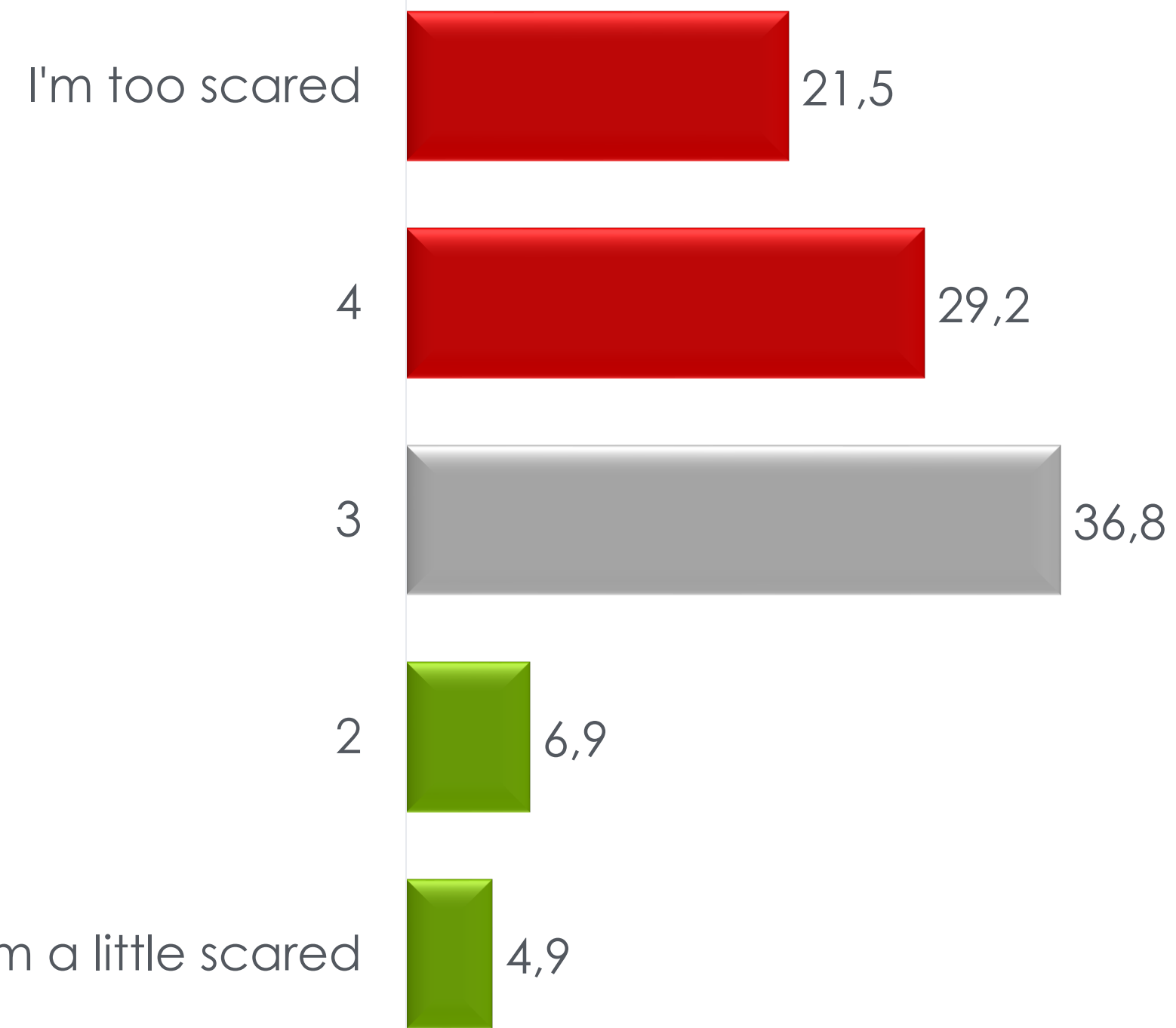
I'm too scared	21,5
4	29,2
3	36,8
2	6,9
I'm a little scared	4,9

Base (Those who fear of artificial intelligence)	144

- In your opinion, which occupations will be negatively affected by artificial intelligence?
- Why will these professions be negatively affected?

21.8% of the interviewees stated that that doctors will be affected most negatively by artificial intelligence since there will be no need for manpower.

25.4% of the 14-18 age group (71 people) indicated that the teachers/instructors will be affected most negatively by artificial intelligence since there will be no need for manpower.

General

Occupations That Will Be Negatively Affected by AI (%)

Occupation	%
Doctor	21,8
Teacher/Instructor	15,7
Law enforcers (soldier/police/watchman)	14,5
Translator	11,4
Pilot	9,6
Manager	9,0
Lawyer	8,4
Estate agent	6,9
Pharmacist	6,0

Multiple choice

4.1% of the interviewees had no opinion.
1.1% did not answer.

Values below 6.0% are not included in the chart.

Reasons (%)

Reason	%
No need for manpower / Reduces employment / Occupations will disappear	56,3
Will be insufficient / Can not replace human / Will not be efficient	4,2
Because it's hard work	1,8
Nothing will stay hidden / Lies will be exposed / No chicanes	1,7
Because it is dangerous / Risky / Misuse	1,5
Because it is not face to face / Being remote	1,4
The rapid development of technology will have negative effects	1,4
Will have negative effects / May cause harm	1,3

20.8% of the interviewees had no opinion.
3.4% did not answer.

Values below 1.3% are not included in the chart.

Base	1135

23

- In your opinion, which occupations will be negatively affected by artificial intelligence?
- Why will these professions be negatively affected?

AIPA — YAPAY ZEKA POLİTİKALARI DERNEĞİ

Kuantum ARAŞTIRMA

21.8% of the interviewees stated that that doctors will be affected most negatively by artificial intelligence since there will be no need for manpower.

General

Occupations That Will Be Negatively Affected by AI (%)

Occupation	%
Doctor	21,8
Teacher/Instructor	15,7
Law enforcers (soldier/police/watchman)	14,5
Translator	11,4
Pilot	9,6
Manager	9,0
Lawyer	8,4
Estate agent	6,9
Pharmacist	6,0

Multiple choice

4.1% of the interviewees had no opinion.
1.1% did not answer.

Values below 6.0% are not included in the chart.
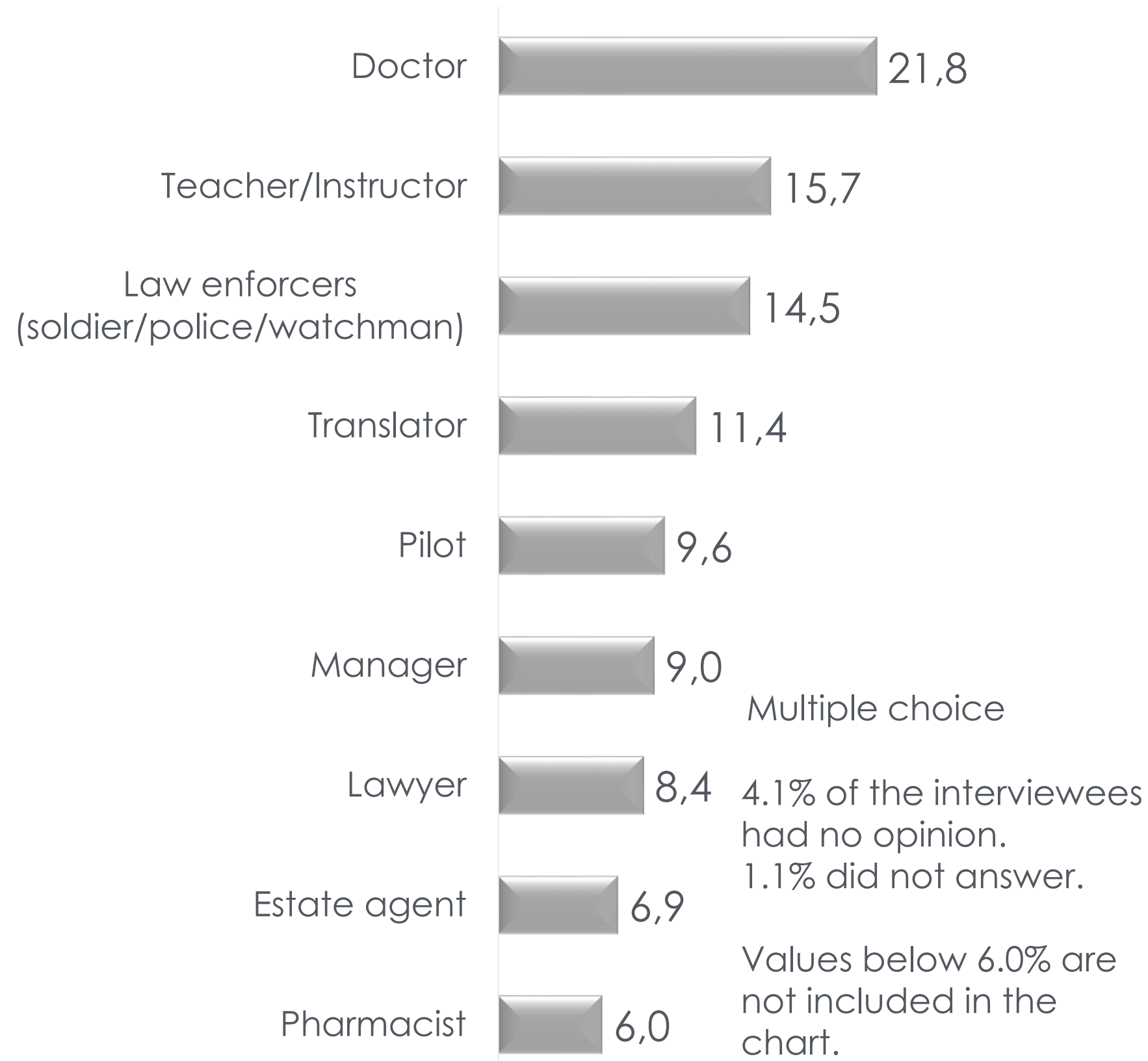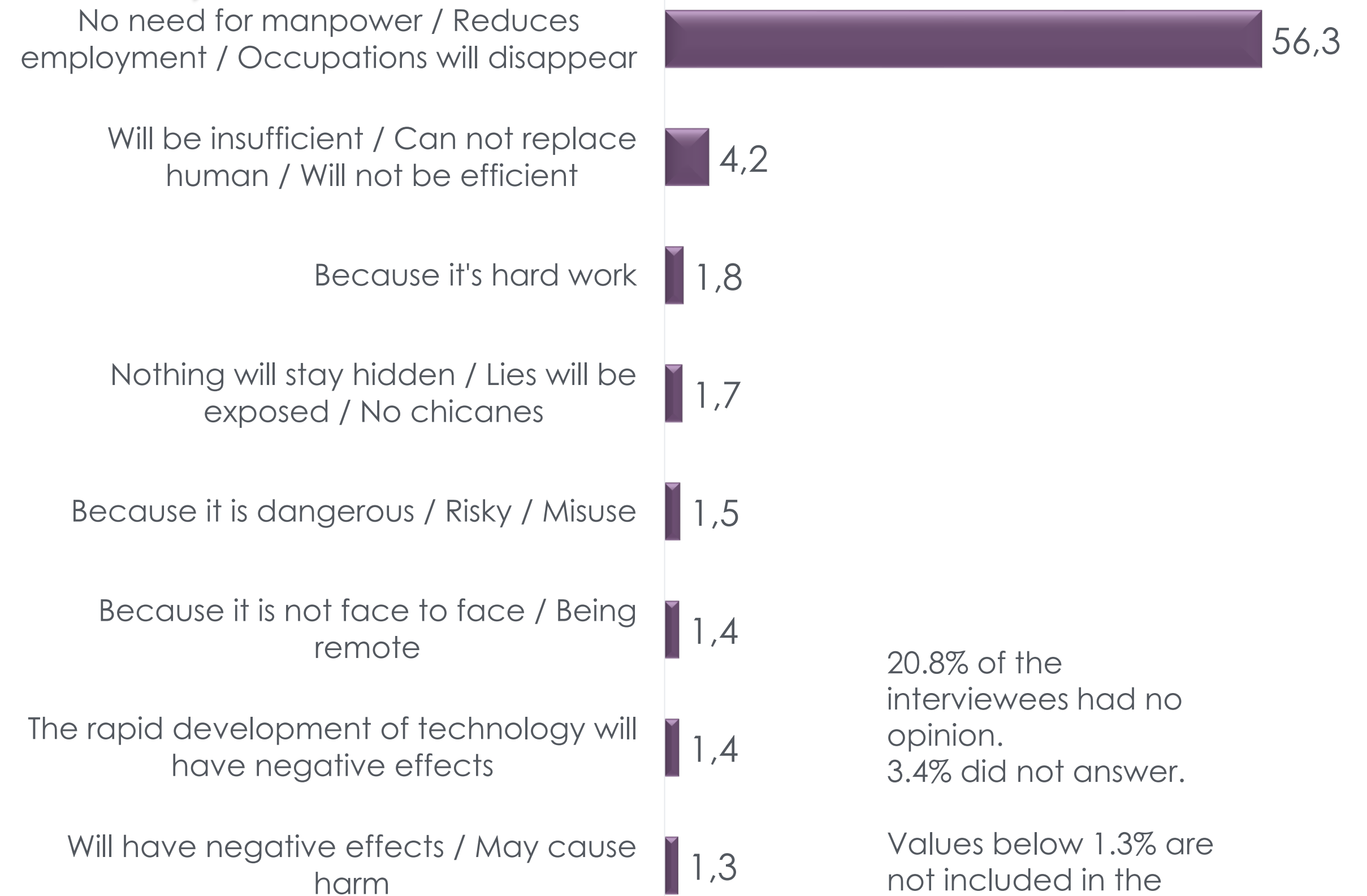
Base	1135

Reasons for Doctors to be Negatively Affected (%)

Reason	%
No need for manpower / Reduces employment / Increase in unemployment / Occupations...	47,0
Will be insufficient / Can not replace human / Will not be efficient	6,9
Because it's artificial intelligence	2,4
Because it's hard work	2,0
Because it's about health	2,0
Will have negative effects / May cause harm	1,6
The rapid development of technology will have negative effects	1,2
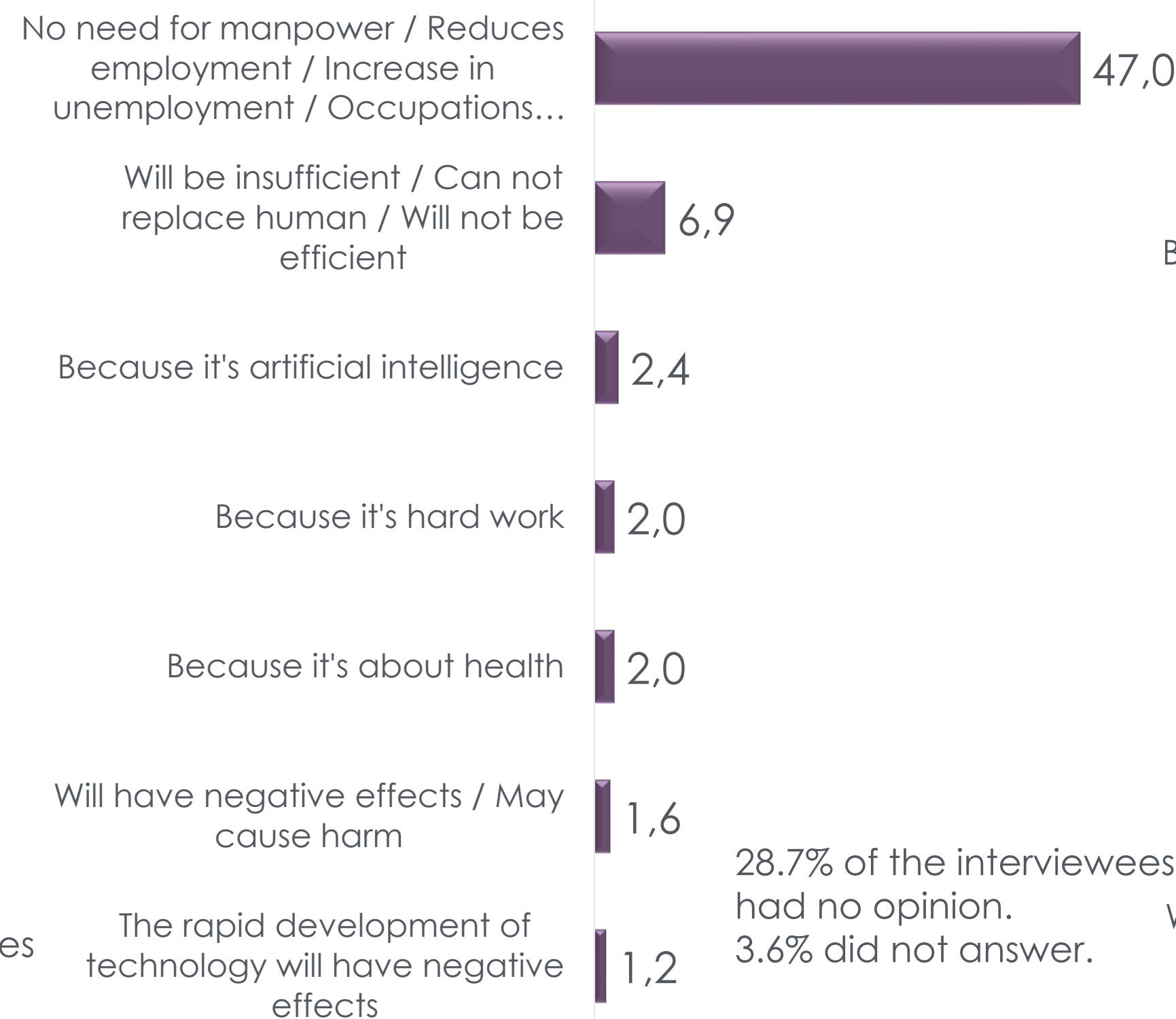
28.7% of the interviewees had no opinion.
3.6% did not answer.

Values below 1.2% are not included in the chart.

Base (Those who say that doctors will be negatively affected)	247

Reasons for Teachers/Instructors to be Negatively Affected (%)

Reason	%
No need for manpower / Reduces employment / Increase in unemployment / Occupations will disappear	52,2
Because it is not face to face / Being remote	8,4
Because it's hard work	6,7
Will be insufficient / Can not replace human / Will not be efficient	5,1
The rapid development of technology will have negative effects	2,8
Will have negative effects on education	2,2

16.9% of the interviewees had no opinion.
2.2% did not answer.

Values below 2.2% are not included in the chart.

Base (Those who say that teachers will be negatively affected)	178

24

Occupations that Will Be Negatively Affected by AI and their Reasons (%)
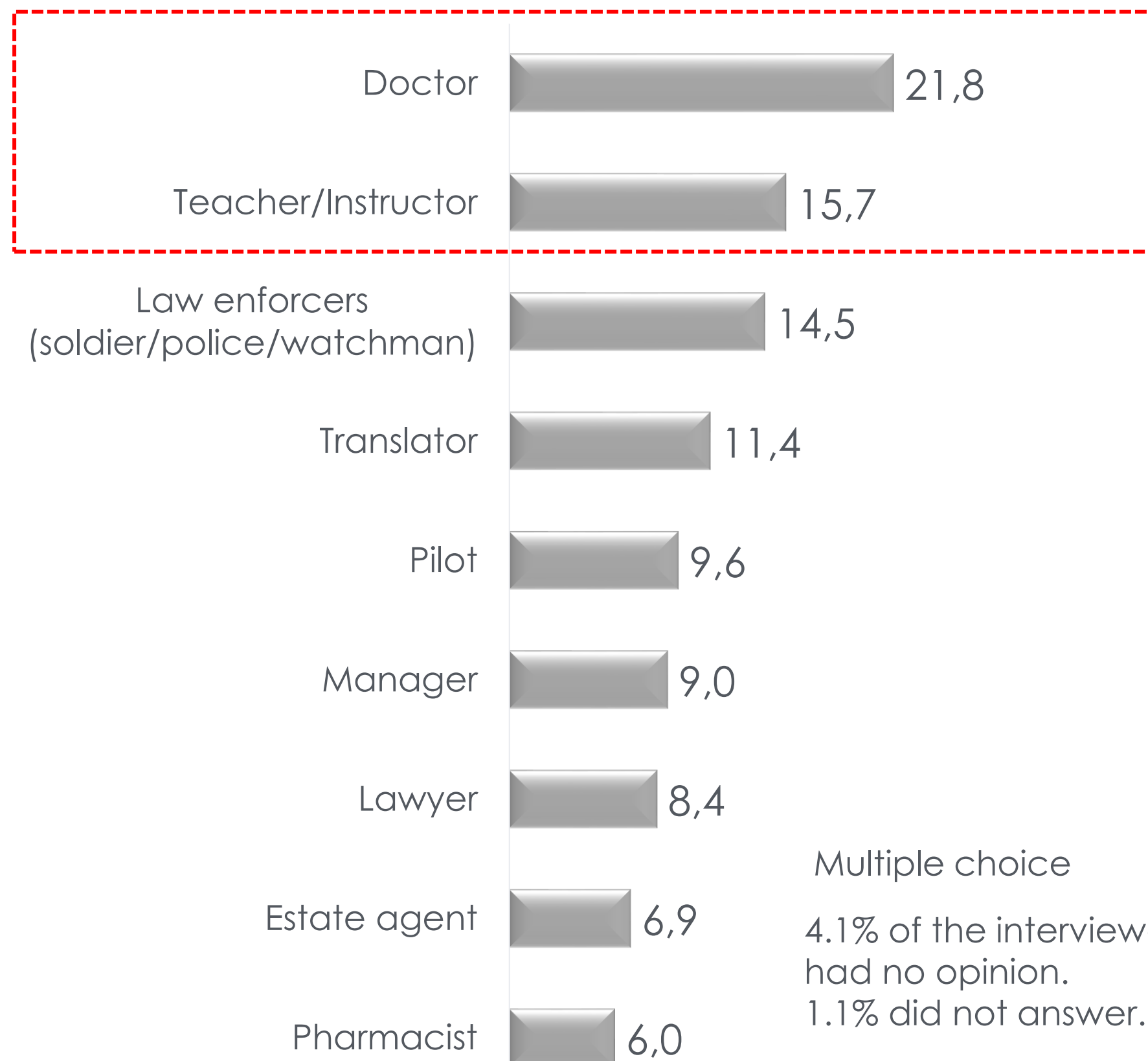- In your opinion, which occupations will be negatively affected by artificial intelligence?
- Why will these professions be negatively affected?

Society

Occupations That Will Be Negatively Affected by AI (%)

Occupation	%
Doctor	20,8
Teacher/Instructor	14,5
Law enforcers (soldier/police/watch…	12,0
Translator	9,5
Pilot	8,4
Manager	8,1
Lawyer	7,5
Estate agent	6,6
Workers / Factory workers	5,6

Multiple choice

Values below 5.5% are not included in the chart.

Reasons (%)

Reason	%
No need for manpower / Reduces employment /…	56,6
Will be insufficient / Can not replace human / Will not be…	3,8
Because it's hard work	1,8
Nothing will stay hidden / Lies will be exposed / No chicanes	1,6
Because it is dangerous / Risky / Misuse	1,5
Because it is not face to face / Being remote	1,5
Control becomes difficult / Uncontrollable	1,4
Will have negative effects / May cause harm	1,4

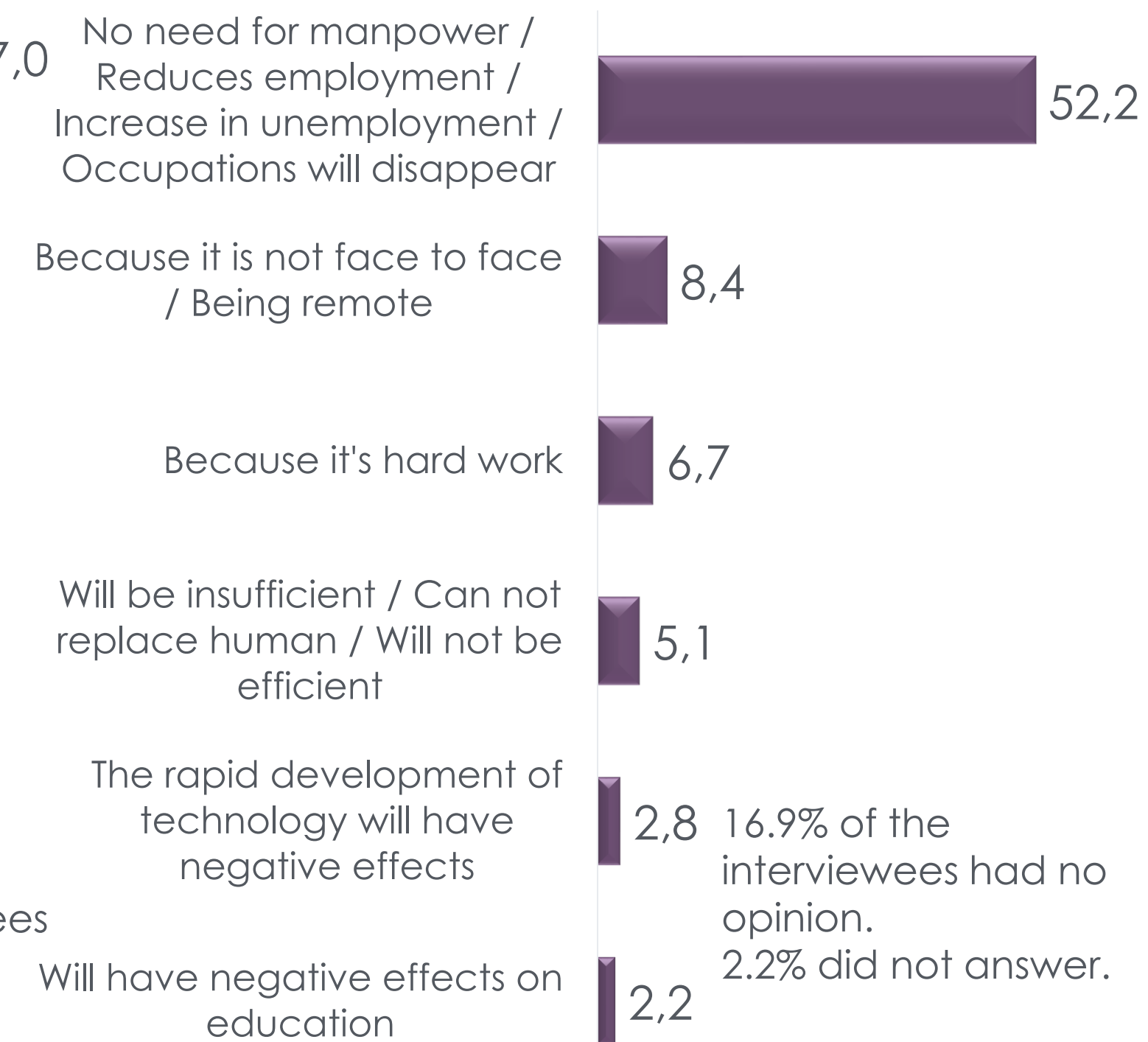20.3% of the interviewees had no opinion.
4.0% did not answer.

Values below 1.4% are not included in the chart.

Base (Society)	800

25

Occupations that Will Be Negatively Affected by AI and their Reasons (%)

- In your opinion, which occupations will be negatively affected by artificial intelligence?
- Why will these professions be negatively affected?

Students

Occupations That Will Be Negatively Affected by AI (%)

Occupation	%
Doctor	24,2
Teacher/Instructor	20,6
Law enforcers (soldier/police/watchman)	18,5
Translator	15,8
Pilot	12,5
Manager	11,0
Lawyer	10,4
Estate agent	8,7
Pharmacist	

Multiple choice

Values below 8.4% are not included in the chart.

Reasons (%)

Reason	%
No need for manpower / Reduces employment / Increase in unemployment / Occupations will disappear	55,5
Will be insufficient / Can not replace human / Will not be efficient	5,4
Because it's hard work	1,8
Nothing will stay hidden / Lies will be exposed / No chicanes	1,8
The rapid development of technology will have negative effects	1,8
Because it is dangerous / Risky / Misuse	1,5
Wars will increase / There may be cyber attacks / Will be effective in weapons and defense	1,5

20.8% of the interviewees had no opinion.
3.4% did not answer.

Values below 1.3% are not included in the chart.

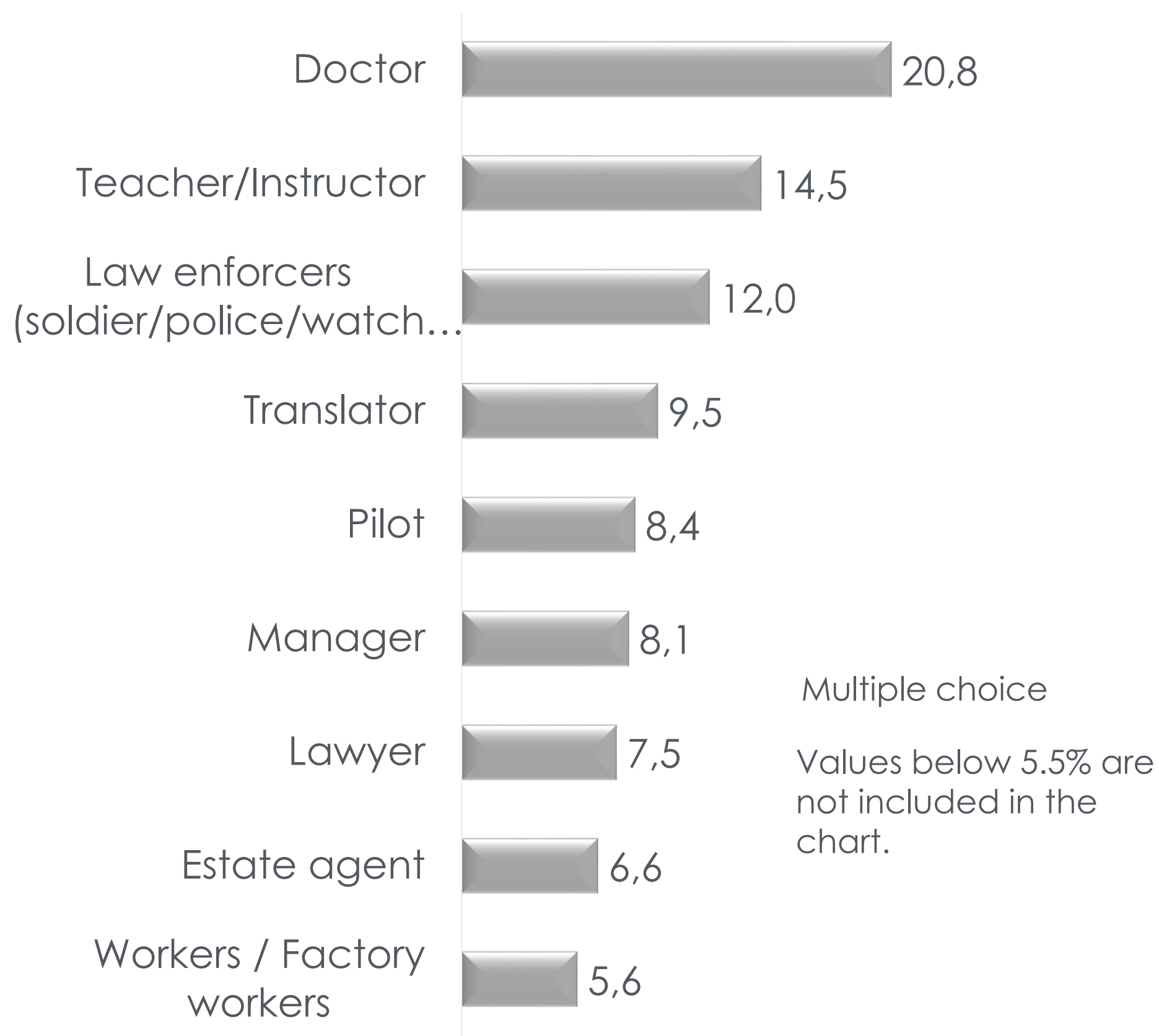| Base (Students)	335

Occupations and Service Quality
Occupations that Will Be Positively Affected by AI and their Reasons (%)

- In your opinion, which occupations will be positively affected by artificial intelligence?
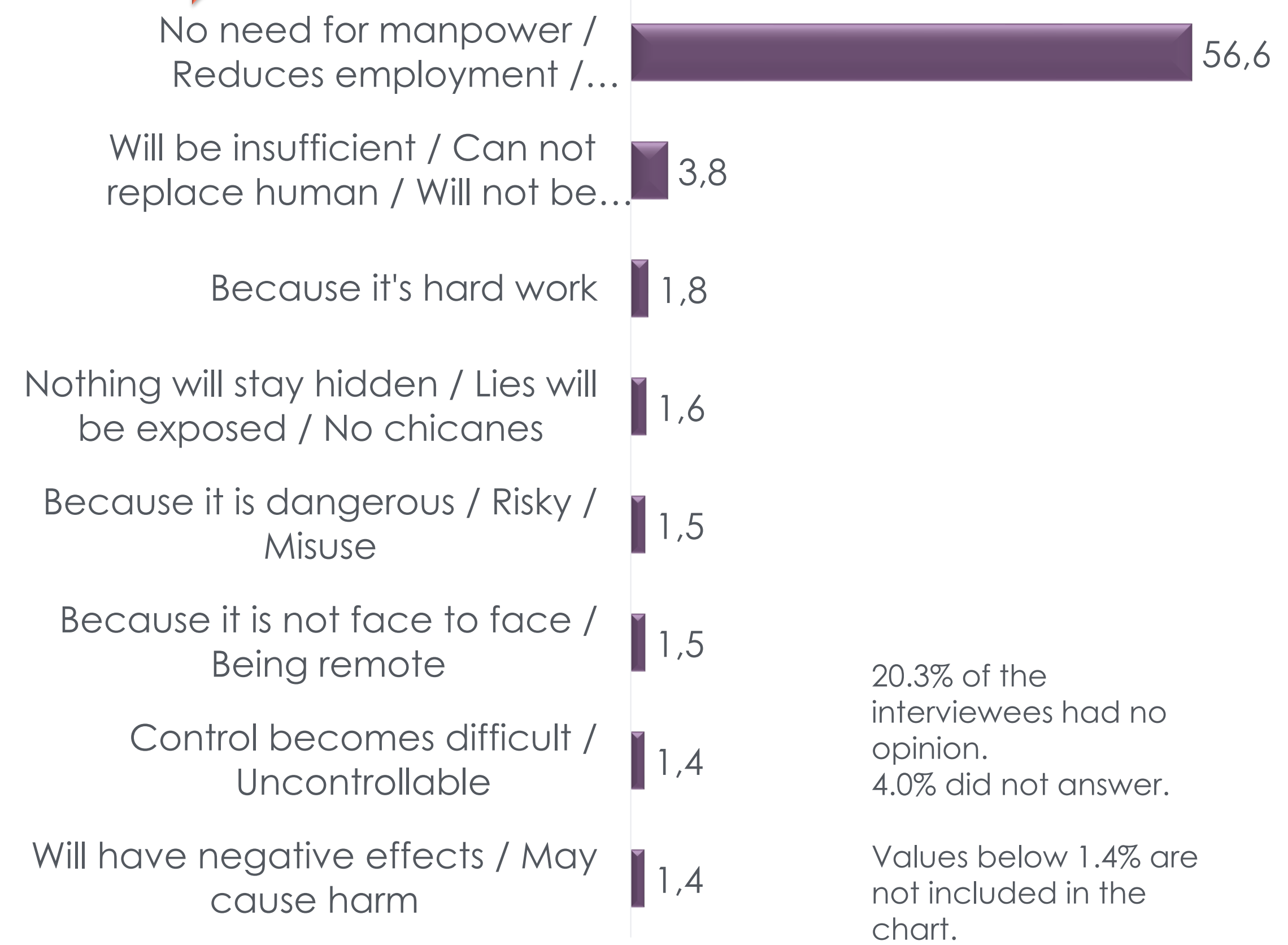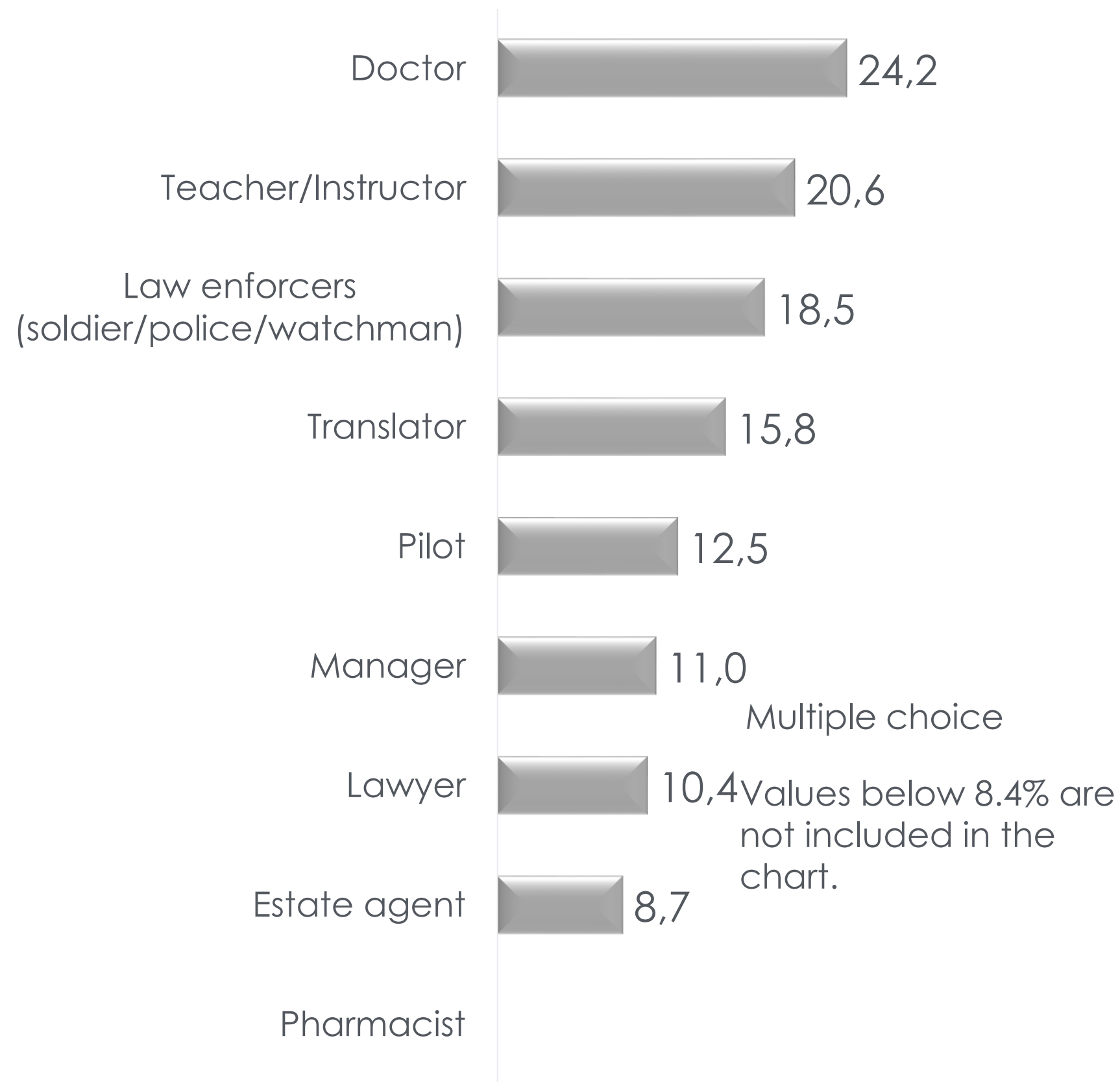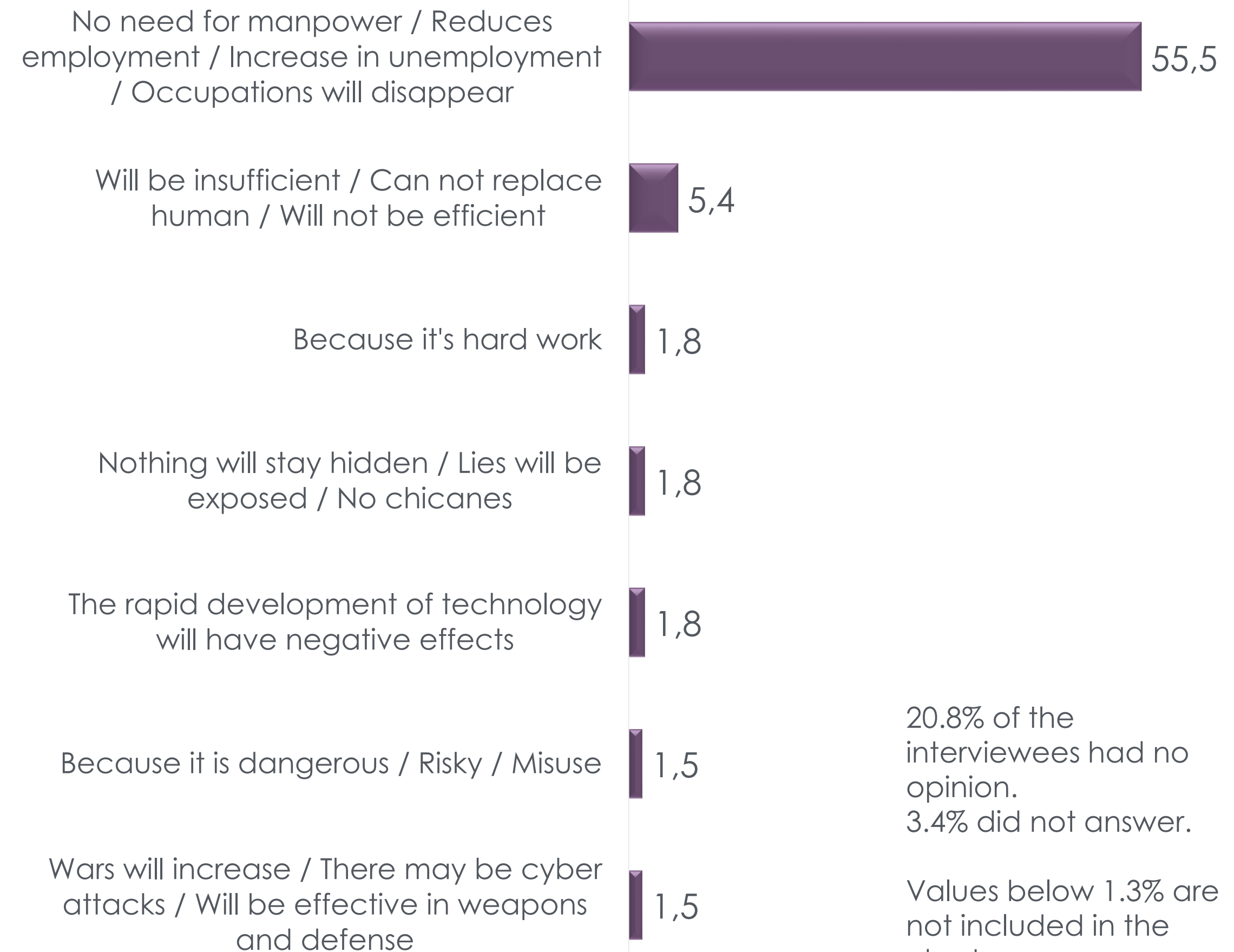- Why will these professions be positively affected?

Artificial intelligence will bring the profession of medicine to a higher quality.

General

Occupations That Will Be Positively Affected by AI(%)

Occupation	%
Doctor/Dentist	31,3
Law enforcers (soldier/police/watchman)	21,2
Teacher/Instructor	13,0
Manager	8,4
Pilot	7,8
Lawyer	6,6
Pharmacist	5,8
Fire fighter	5,1

Multiple choice

4.2% of the interviewees had no opinion. 0.8% did not answer. Values below 5.1% are not included in the chart.

Base	1135

Reasons for Doctors to be Positively Affected (%)

Reason	%
Will provide convenience / will be helpful	38,3
Workload will be reduced	18,3
Artificial intelligence will be more effective, more successful and fairer	7,6
Will speed up / will save time	6,9
Error rate will decrease	4,1
Because technology evolves	3,8

15.9% of the interviewees had no opinion. 3.4% did not answer. Values below 3.8% are not included in the chart.

Base (Those who say that doctors will be positively affected)	292

Reasons for Teachers/Instructors to be Positively Affected (%)

Reason	%
Will provide convenience / will be helpful	33,8
Workload will be reduced	31,1
Will speed up / will save time	6,8
Efficiency will increase	6,1
Artificial intelligence will be more effective,...	5,4
Error rate will decrease	2,0
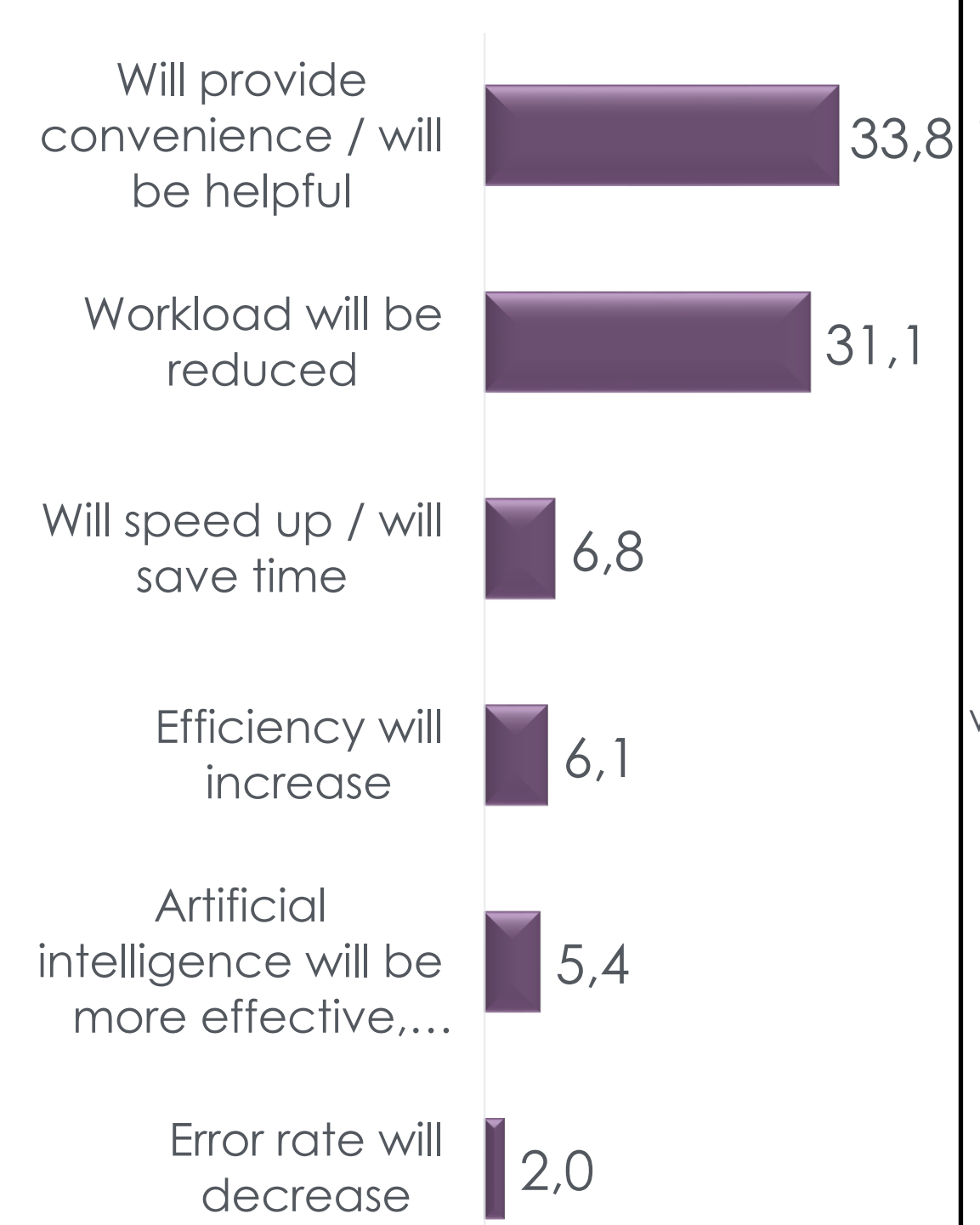
13.5% of the interviewees had no opinion. 2.7% did not answer. Values below 2.0% are not included in the chart.

Base (Those who say that teachers will be positively affected)	147

Reasons for Soldiers to be Positively Affected (%)

Reason	%
Will provide convenience / will be helpful	30,9
Loss of life will be reduced / work accidents will be prevented	30,9
Workload will be reduced	21,3
Artificial intelligence will be more effective, more successful and fairer	5,1
Because technology evolves	3,7
Will speed up / will save time	2,9

5.1% of the interviewees had no opinion. 0.7% did not answer. Values below 2.9% are not included in the chart.

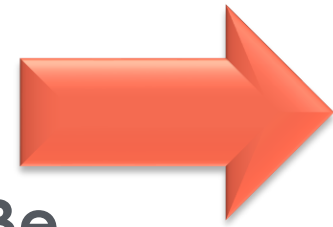| Base (Those who say that soldiers will be positively affected)	136

Occupations and Service Quality
Occupations that Will Be Positively Affected by AI and their Reasons (%)

- In your opinion, which occupations will be positively affected by artificial intelligence?
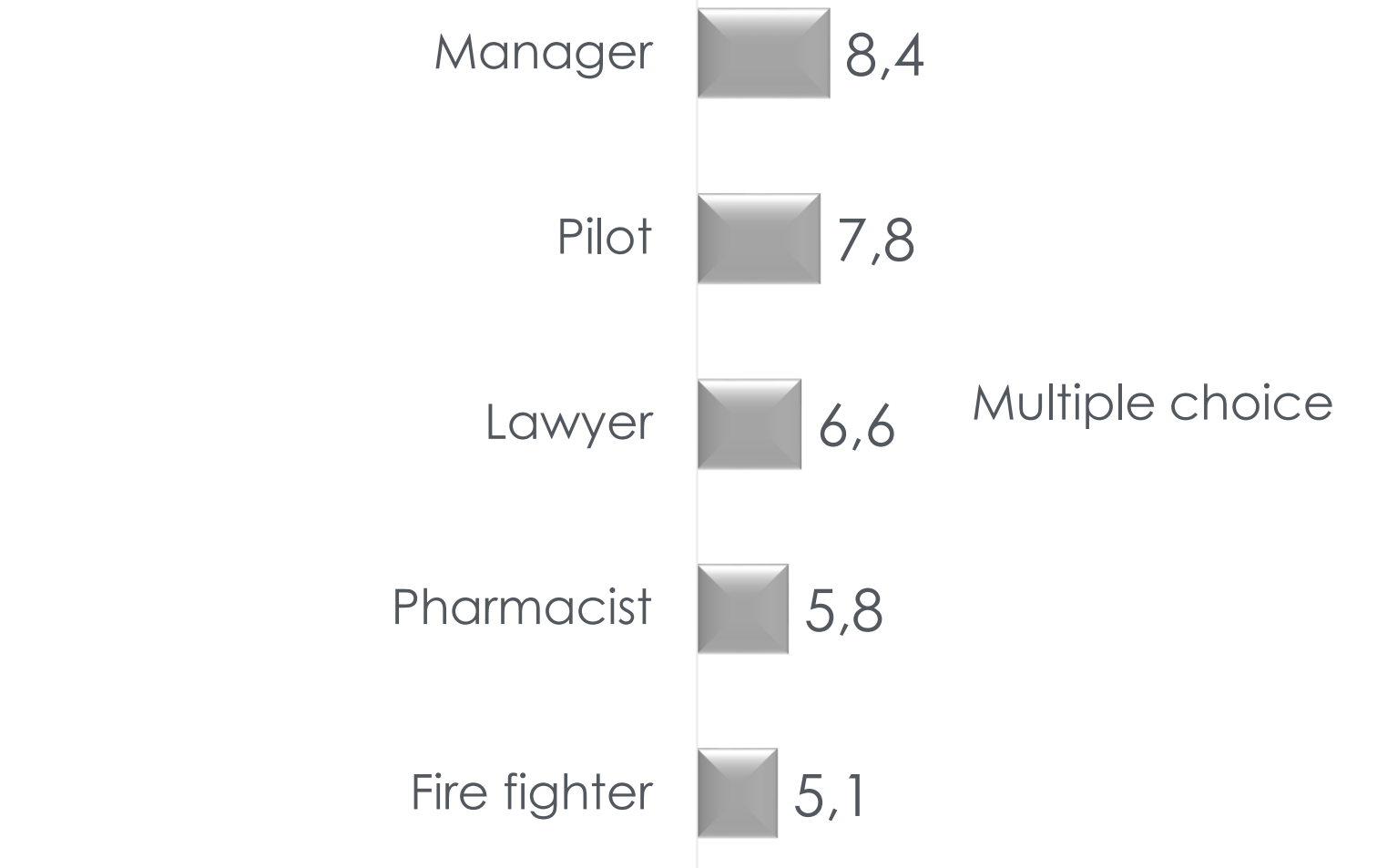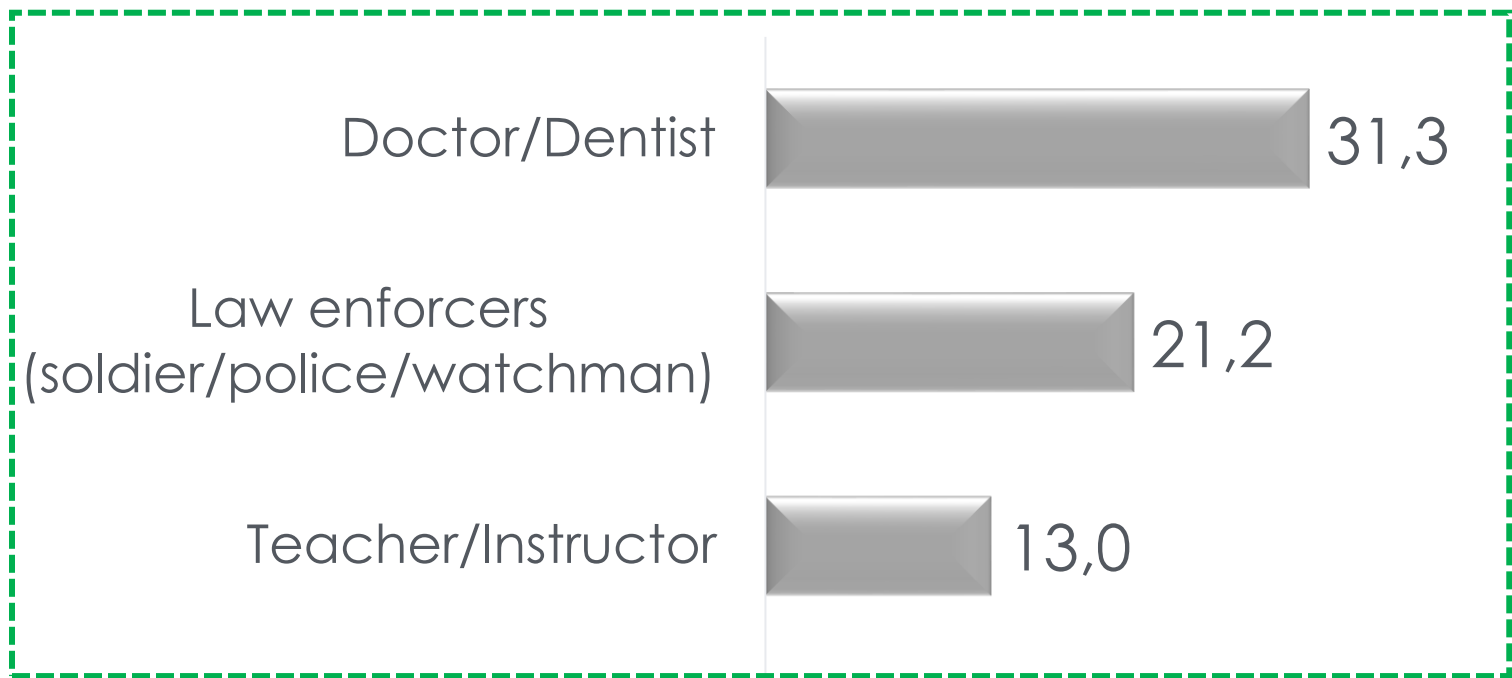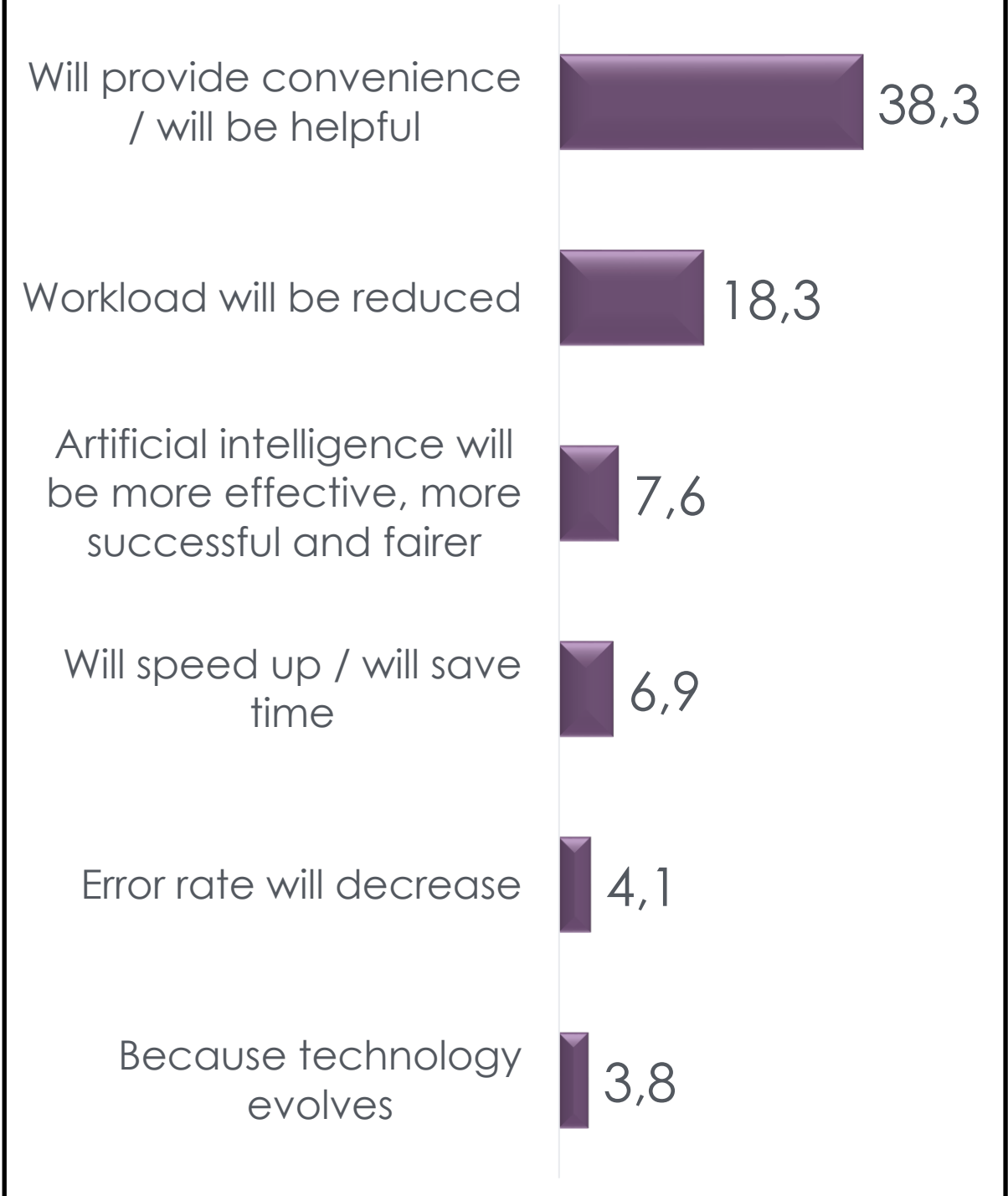- Why will these professions be positively affected?

AIPA YAPAY ZEKA POLİTİKALARI DERNEĞİ **Kuantum** ARAŞTIRMA

Society

Occupations That Will Be Positively Affected by AI(%)

Occupation	%
Doctor	23,5
Law enforcers (soldier/police/watchman)	21,7
Teacher/Instructor	11,9
Pilot	6,9
Manager	6,5
Pharmacist	6,1
Lawyer	5,8
Fire fighter	5,5

4.6% of the interviewees had no opinion. 1.0% did not answer. Values below 5.5% are not included in the chart.

Multiple choice

Base (Society)	800

Reasons for Doctors to be Positively Affected (%)

Reason	%
Will provide convenience / will be helpful	36,9
Workload will be reduced	19,8
Artificial intelligence will be more effective, more...	7,5
Will speed up / will save time	7,0
Error rate will decrease	5,3
Because technology evolves	2,7

15.0% of the interviewees had no opinion. 3.7% did not answer. Values below 2.7% are not included in the chart.

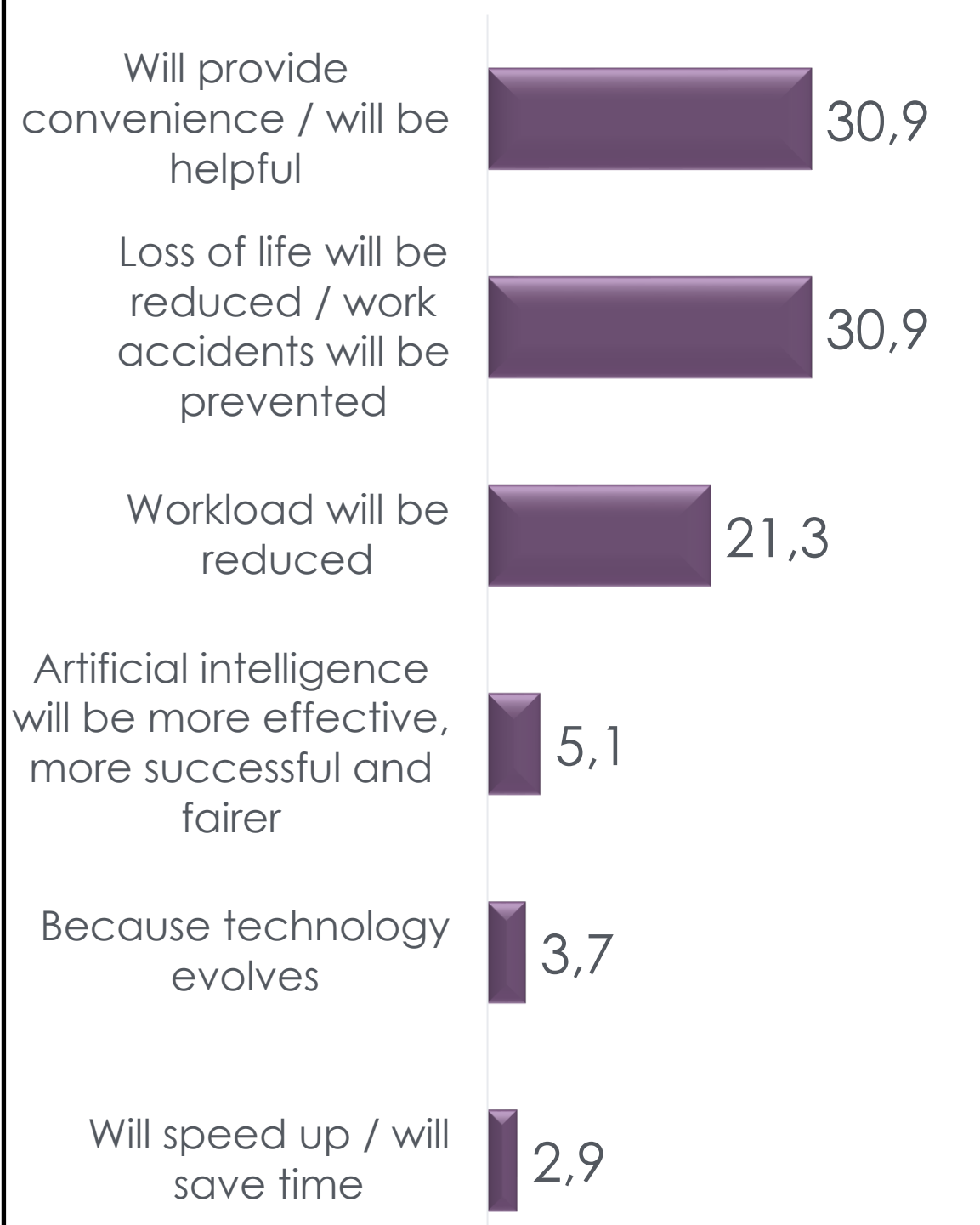| Base (Those who say that doctors will be positively affected)	188

Reasons for Teachers/Instructors to be Positively Affected (%)

Reason	%
Will provide convenience / will be helpful	36,8
Workload will be reduced	29,5
Will speed up / will save time	8,4
Efficiency will increase	6,3
Artificial intelligence will be more effective, more successful and fairer	5,3
Error rate will decrease	3,2

11.6% of the interviewees had no opinion. 3.2% did not answer. Values below 3.2% are not included in the chart.

Base (Those who say that teachers will be positively affected)	95

Reasons for Soldiers to be Positively Affected (%)

Reason	%
Loss of life will be reduced / work accidents will be prevented	34,3
Will provide convenience / will be helpful	28,4
Workload will be reduced	24,5
Artificial intelligence will be more effective, more successful and fairer	5,9
Because technology evolves	2,9

4.9% of the interviewees had no opinion. Values below 2.9% are not included in the chart.

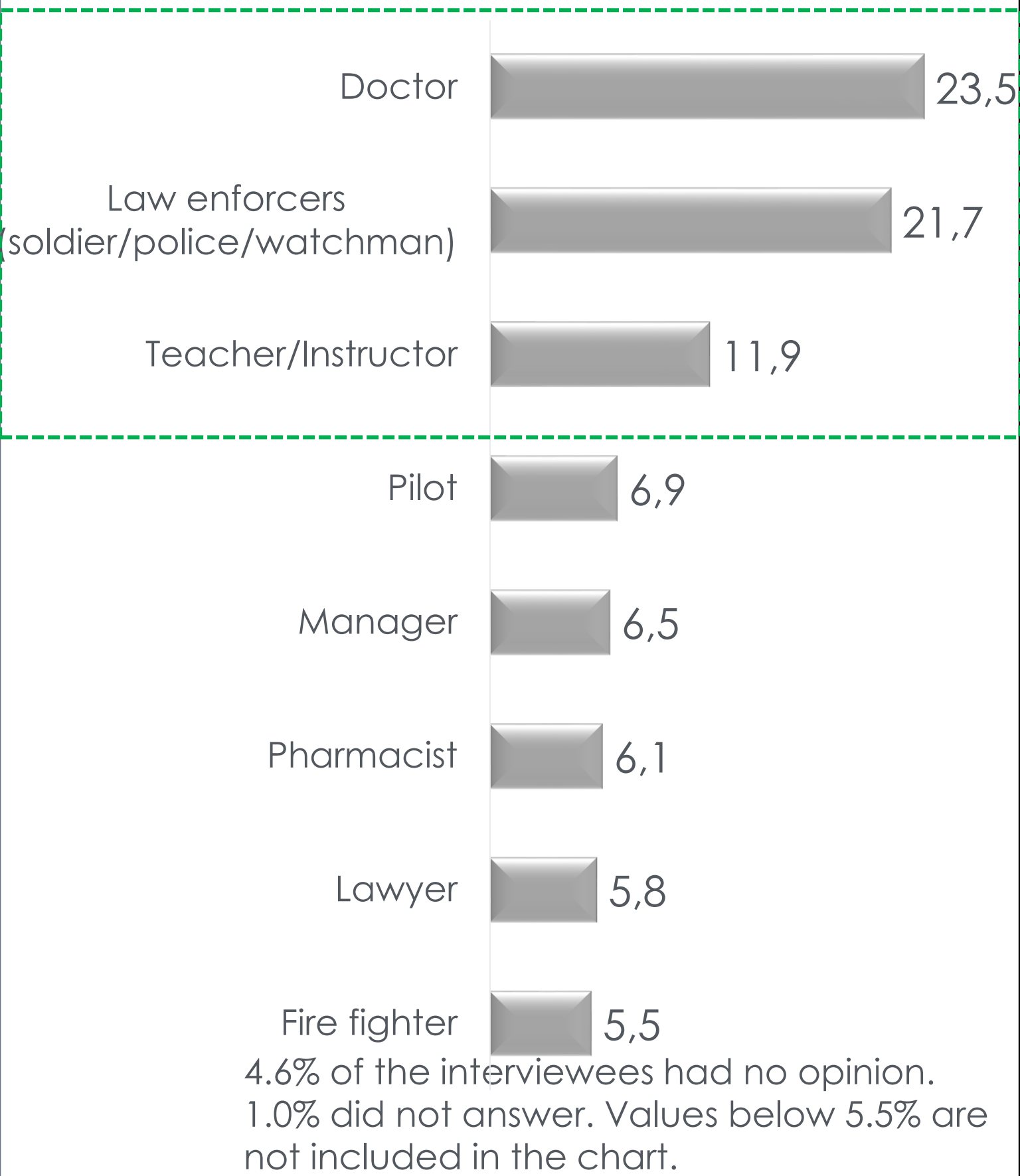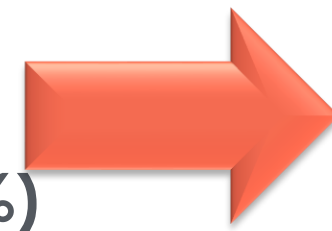| Base (Those who say that soldiers will be positively affected)	102

Occupations that Will Be Positively Affected by AI and their Reasons (%)

- In your opinion, which occupations will be positively affected by artificial intelligence?
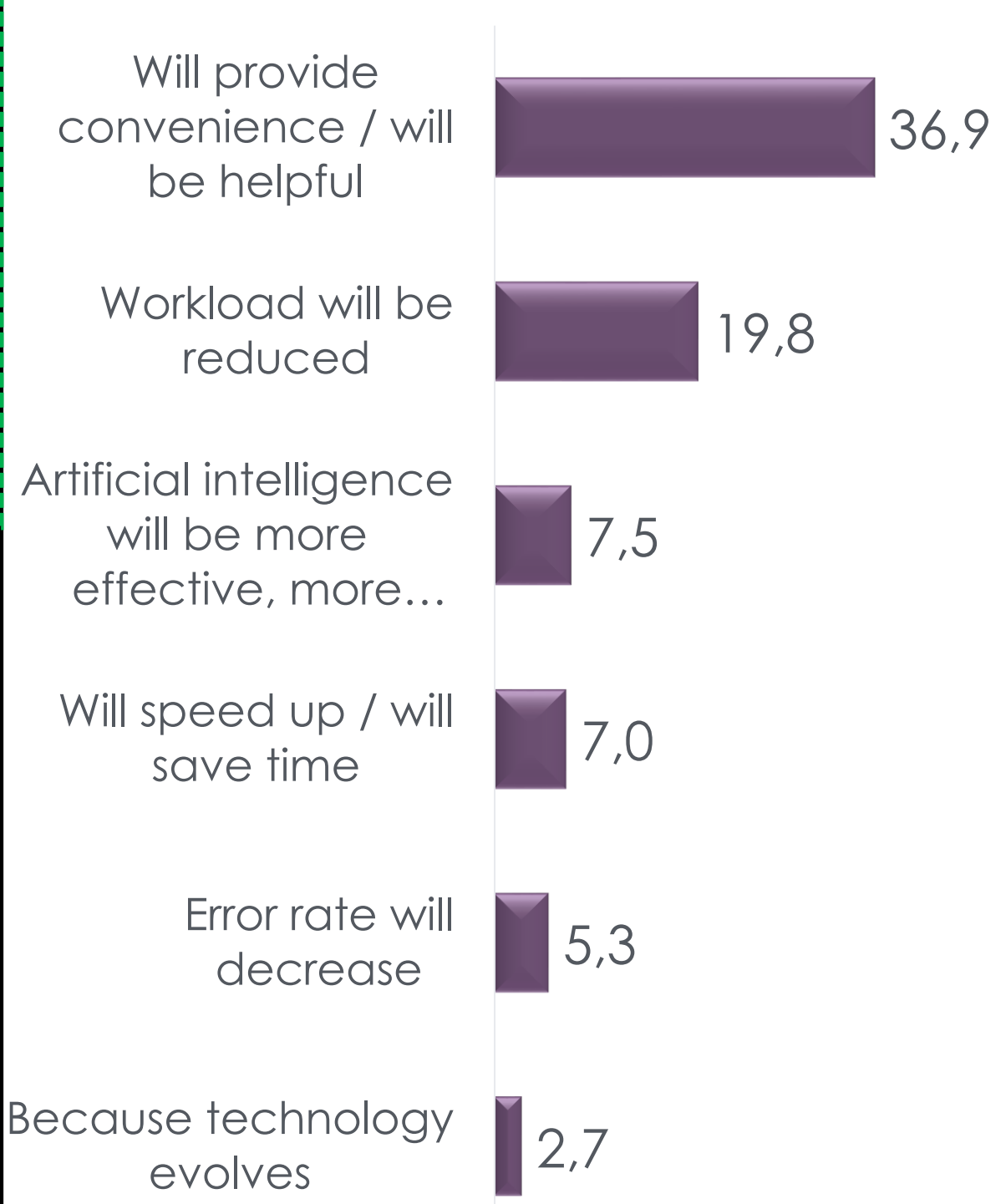- Why will these professions be positively affected?

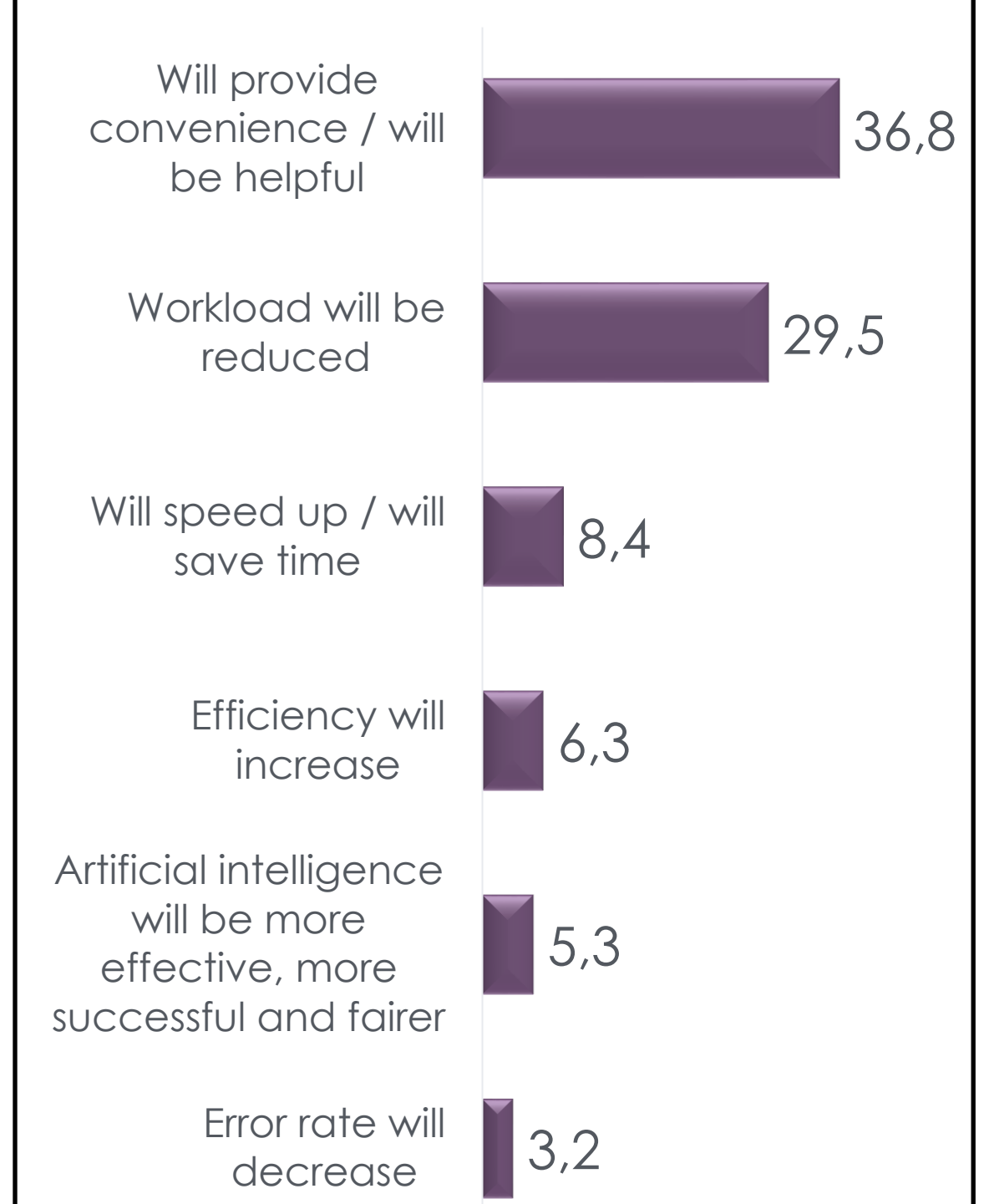**Students**

Occupations That Will Be Positively Affected by AI(%)

Occupation	%
Doctor/Dentist	40,3
Law enforcers (soldier/police/watchman)	20,0
Teacher/Instructor	15,8
Manager	12,8
Pilot	9,9

Multiple choice

3.3% of the interviewees had no opinion. 0.3% did not answer. Values below 9.9% are not included in the chart.

Base (Students)	335

Reasons for Doctors to be Positively Affected (%)

Reason	%
Will provide convenience / will be helpful	40,8
Workload will be reduced	15,5
Artificial intelligence will be more effective, more successful and…	7,8
Will speed up / will save time	6,8
Because technology evolves	5,8
Error rate will decrease	1,9

17.5% of the interviewees had no opinion. 2.9% did not answer. Values below 1.9% are not included in the chart.

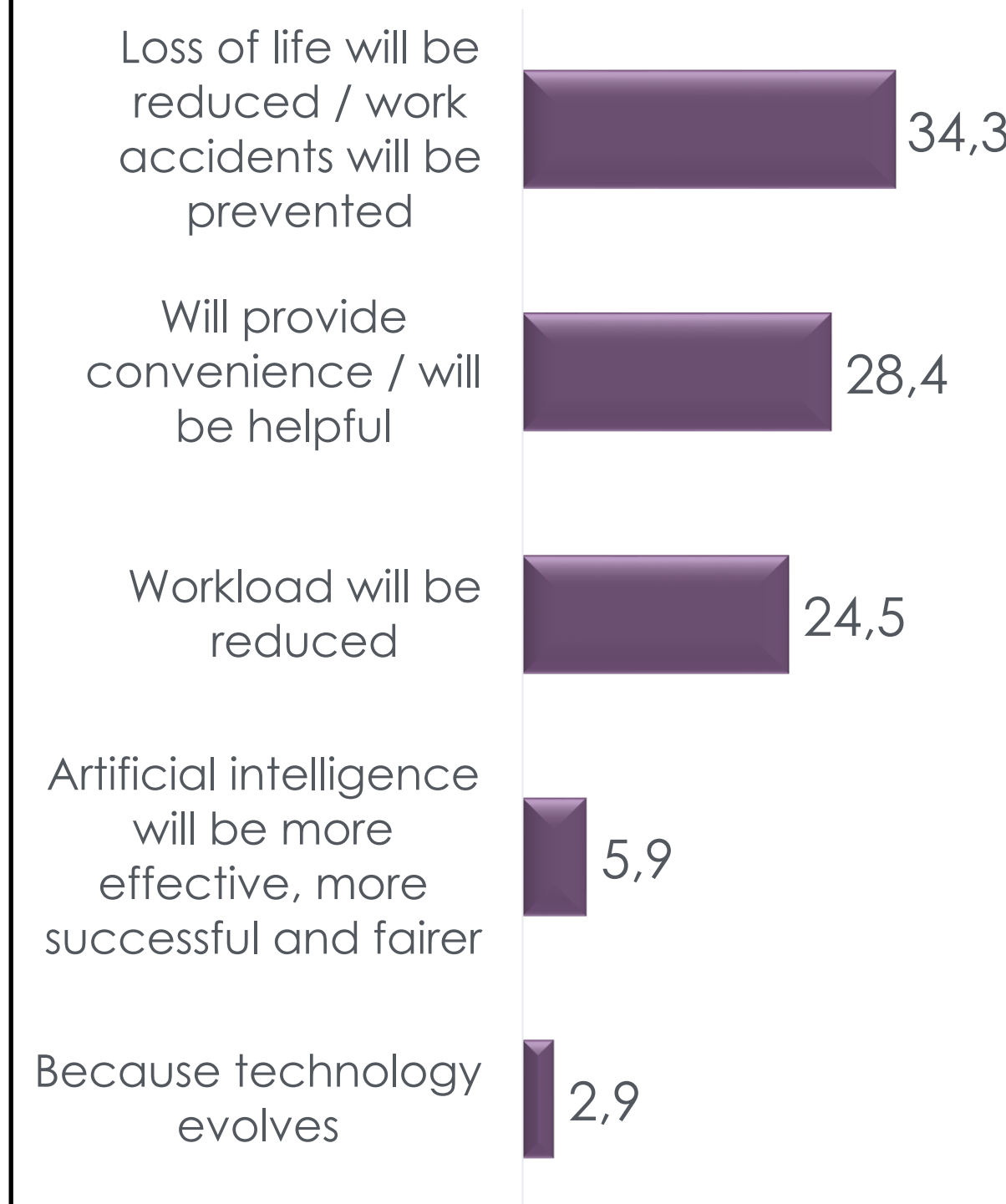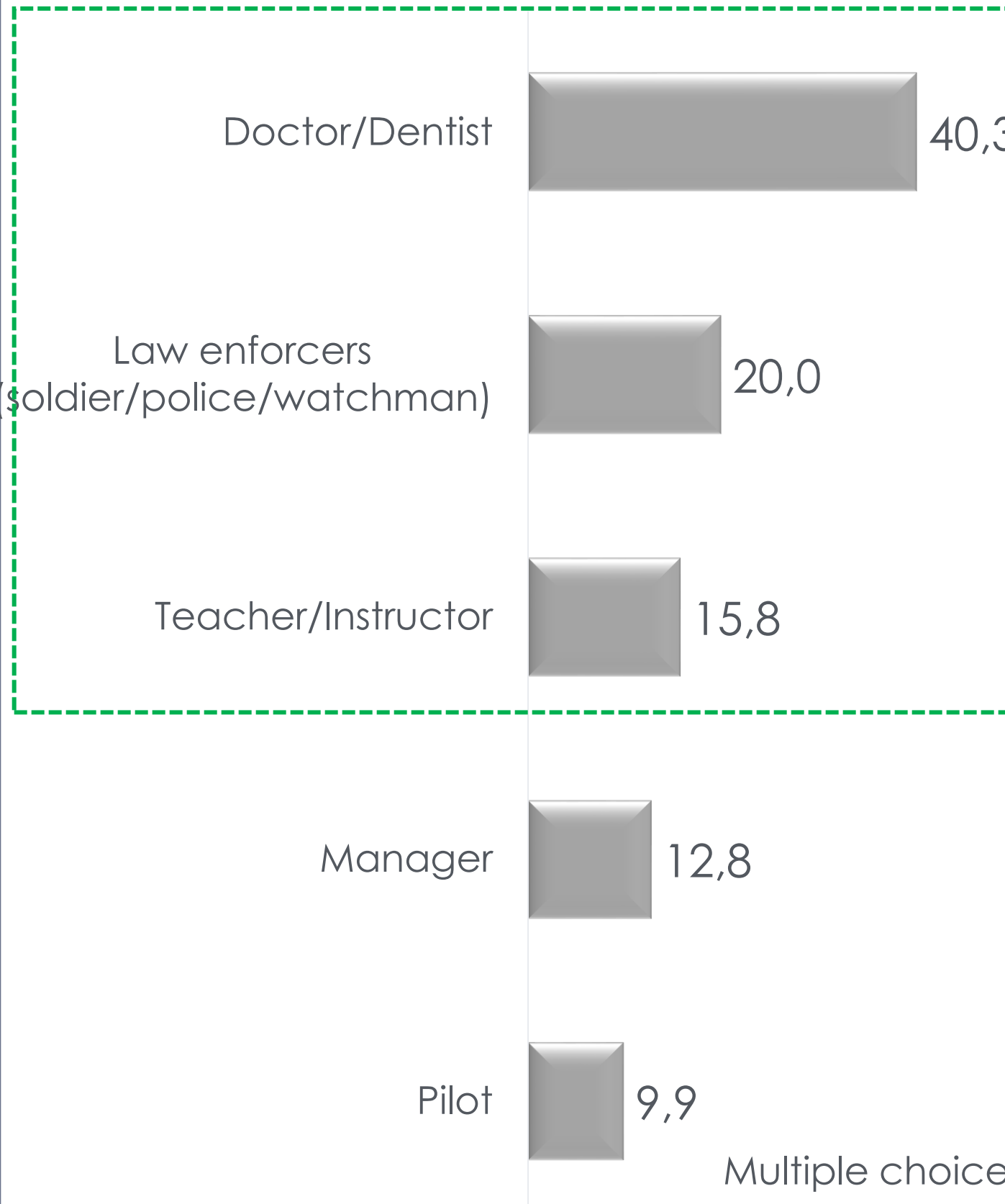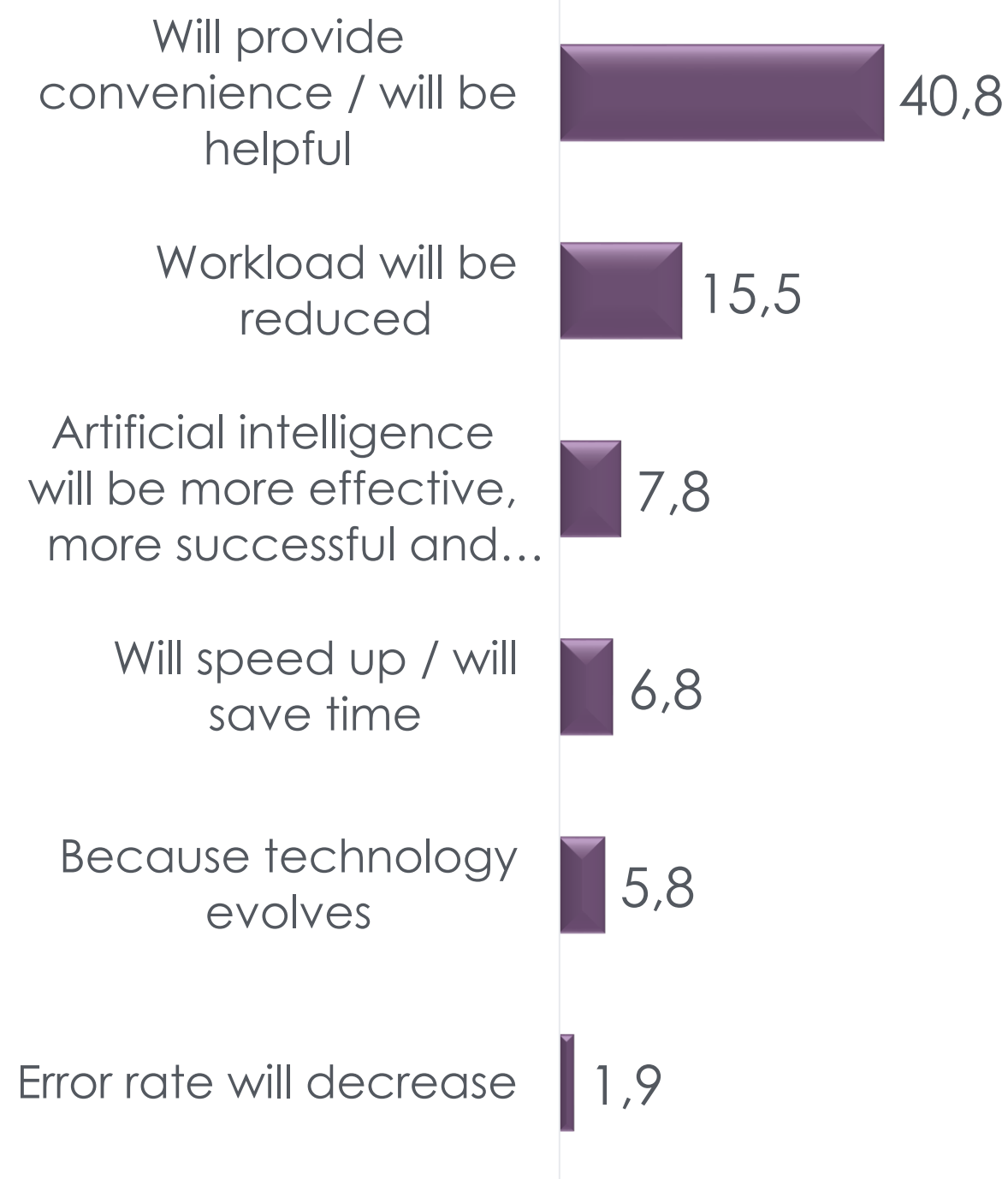| Base (Those who say that doctors will be positively affected)	104

Reasons for Teachers/Instructors to be Positively Affected (%)

Reason	%
Workload will be reduced	34,0
Will provide convenience / will be helpful	28,3
Artificial intelligence will be more effective, more…	5,7
Efficiency will increase	5,7
Will speed up / will save time	3,8
Because technology evolves	3,8
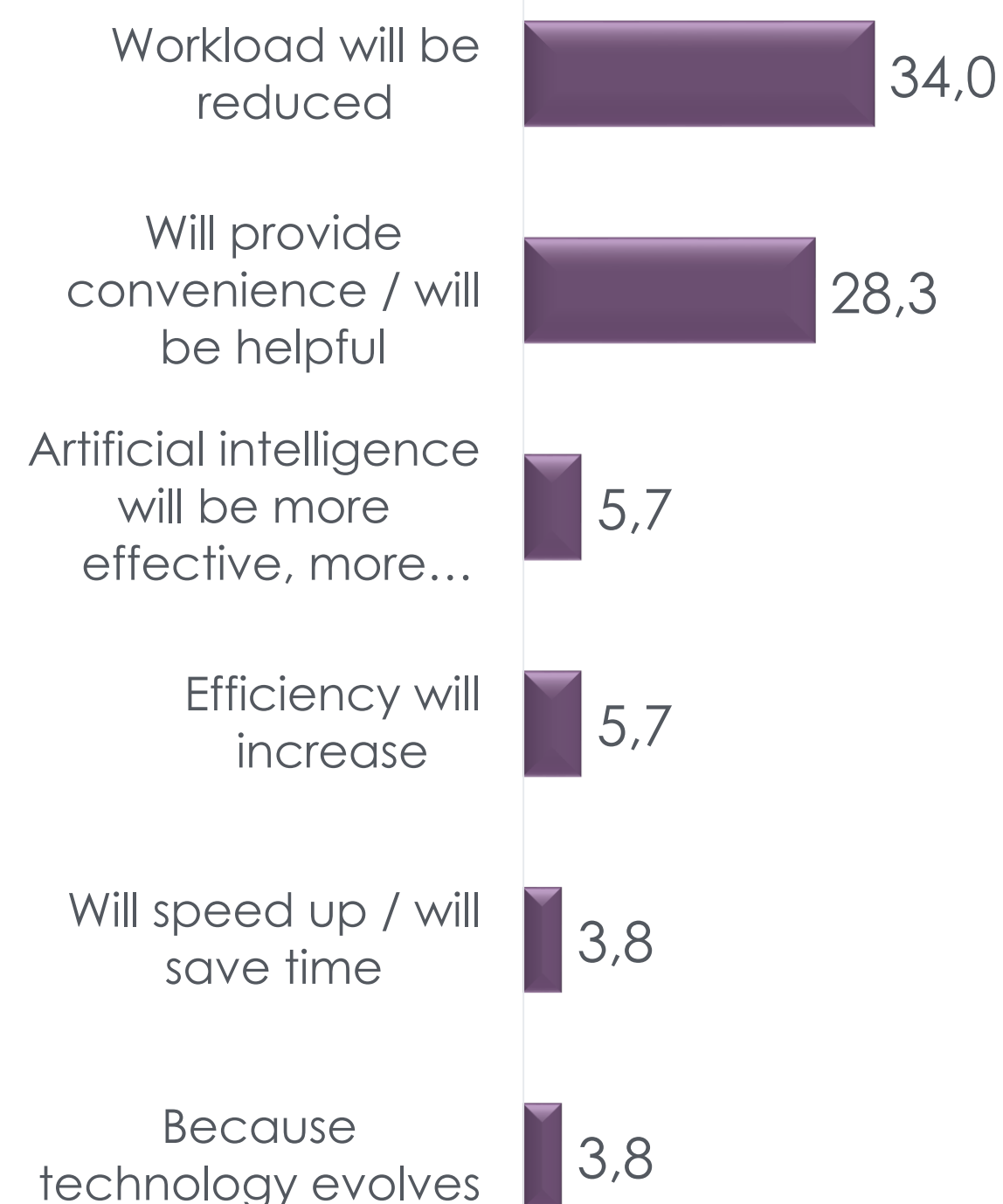
17.0% of the interviewees had no opinion. 1.9% did not answer. Values below 3.8% are not included in the chart.

Base (Those who say that teachers will be positively affected)	53

Reasons for Soldiers to be Positively Affected (%)

Reason	%
Will provide convenience / will be helpful	38,2
Loss of life will be reduced / work accidents will be…	20,6
Workload will be reduced	11,8
Will speed up / will save time	8,8
Because technology evolves	5,9
Artificial intelligence will be more effective, more successful and…	2,9
Error rate will decrease	2,9

5.9% of the interviewees had no opinion. 5.8% did not answer. Values below 2.9% are not included in the chart.

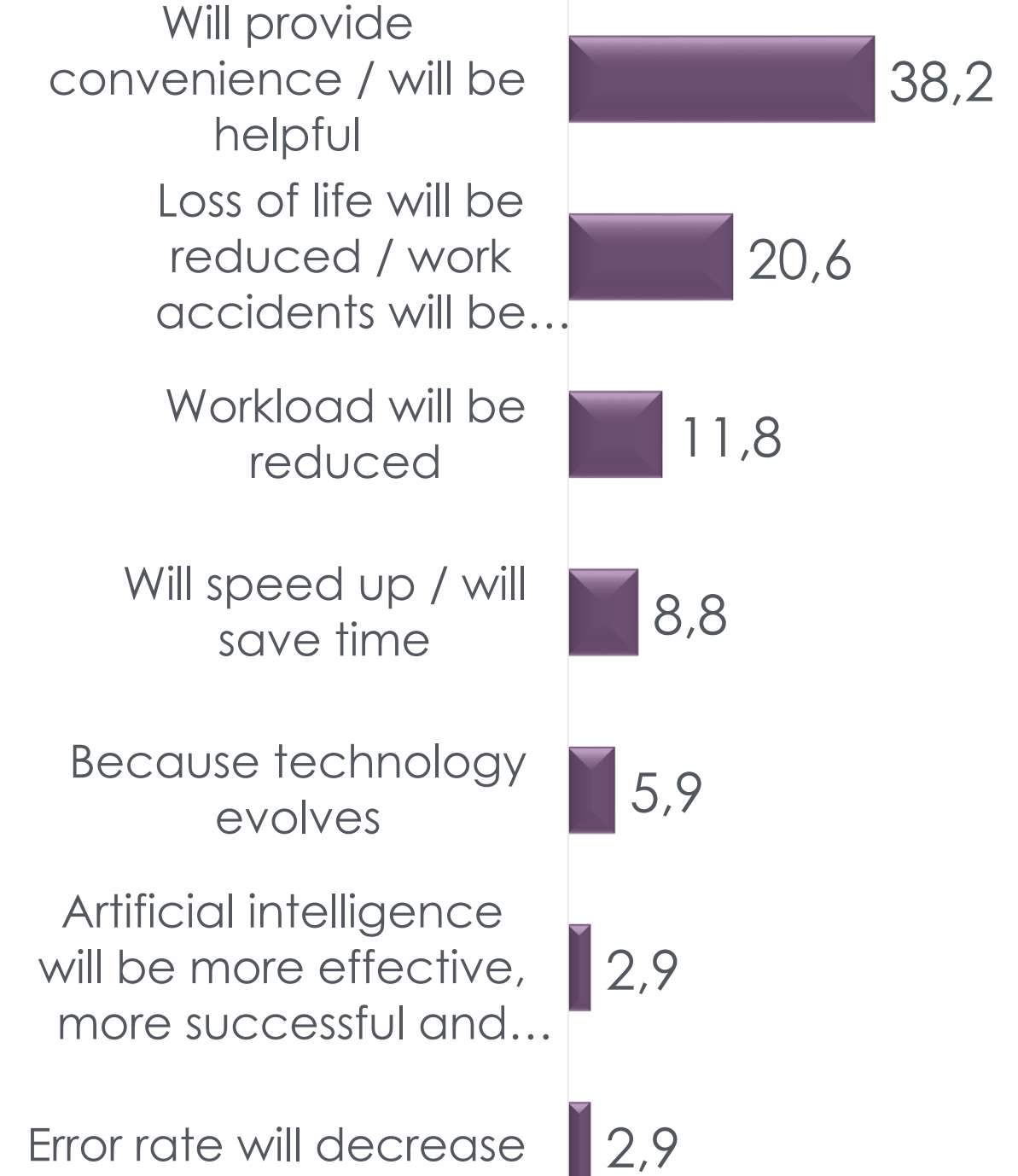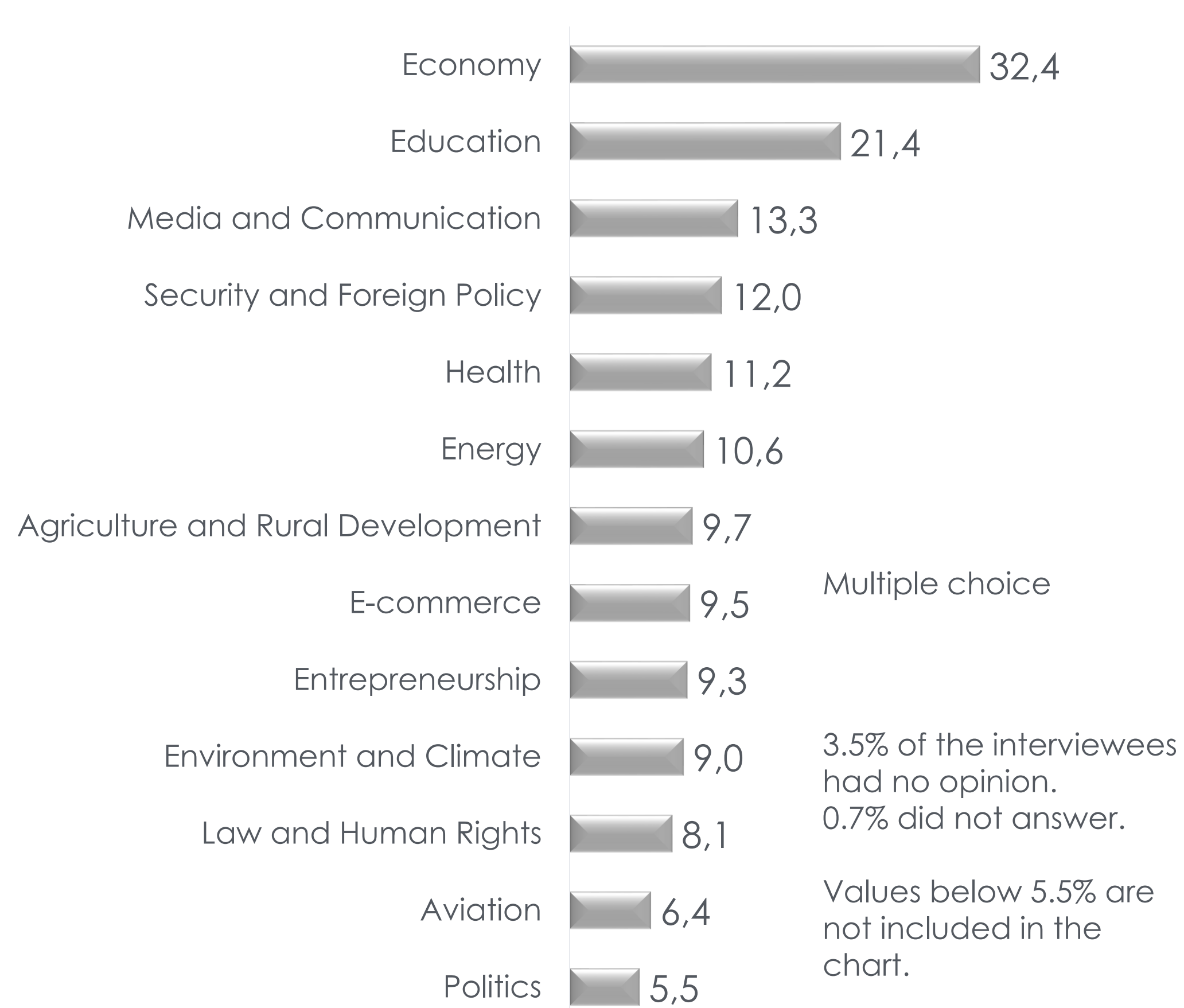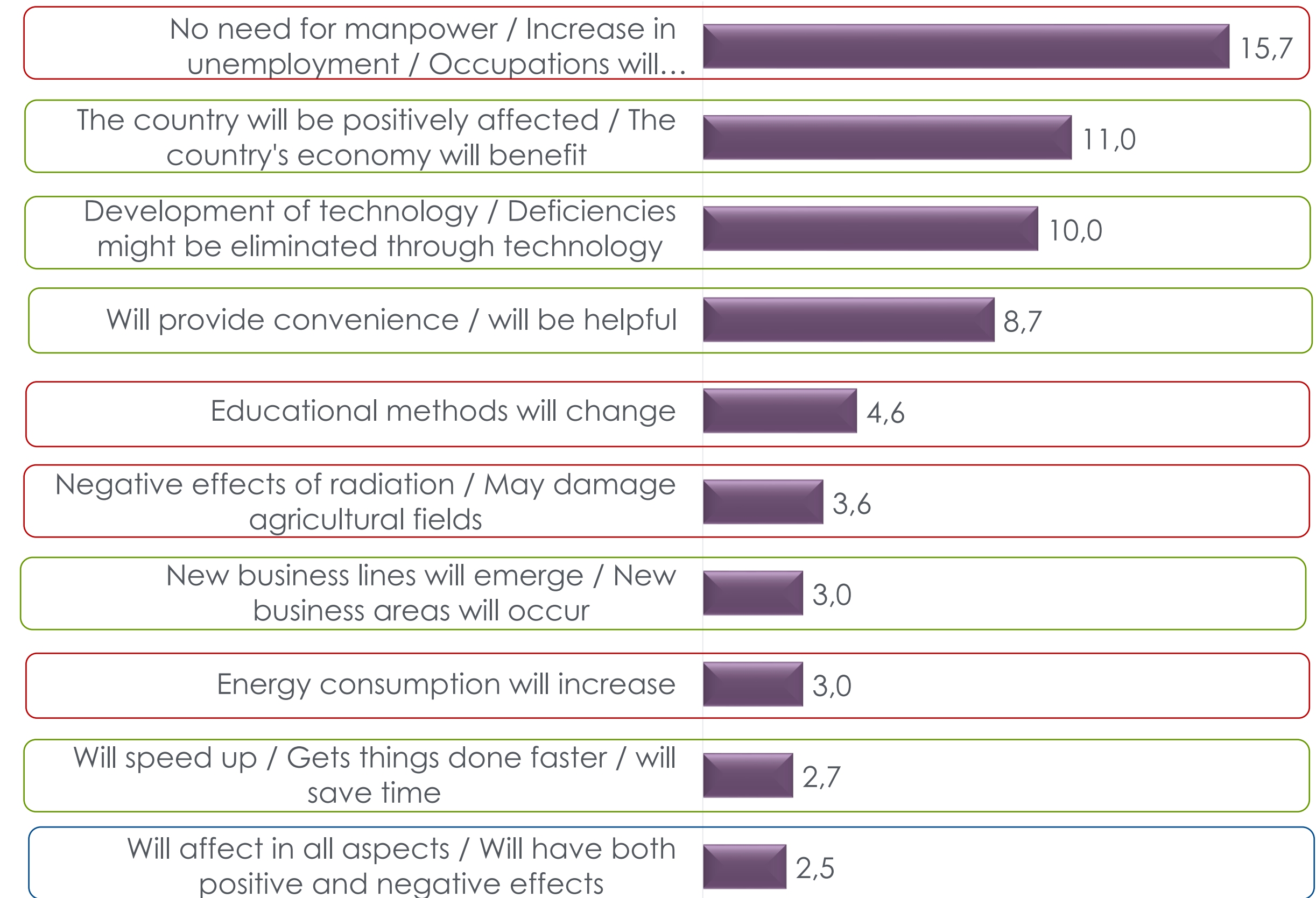| Base (Those who say that soldiers will be positively affected)	34

29

- What are the areas that will be most affected by artificial intelligence?
- Why and how will these areas be affected?

32.4% of the interviewees think that the economy will be most affected by artificial intelligence because they believe that there will be a decrease in employment.

Areas to be Most Affected by Artificial Intelligence (%)

Area	%
Economy	32,4
Education	21,4
Media and Communication	13,3
Security and Foreign Policy	12,0
Health	11,2
Energy	10,6
Agriculture and Rural Development	9,7
E-commerce	9,5
Entrepreneurship	9,3
Environment and Climate	9,0
Law and Human Rights	8,1
Aviation	6,4
Politics	5,5

Multiple choice

3.5% of the interviewees had no opinion.
0.7% did not answer.

Values below 5.5% are not included in the chart.

Base	1135

How The Areas Will Be Affected (%)

How	%
No need for manpower / Increase in unemployment / Occupations will…	15,7
The country will be positively affected / The country's economy will benefit	11,0
Development of technology / Deficiencies might be eliminated through technology	10,0
Will provide convenience / will be helpful	8,7
Educational methods will change	4,6
Negative effects of radiation / May damage agricultural fields	3,6
New business lines will emerge / New business areas will occur	3,0
Energy consumption will increase	3,0
Will speed up / Gets things done faster / will save time	2,7
Will affect in all aspects / Will have both positive and negative effects	2,5

☐ Negative effects
☐ Positive effects
☐ Both negative and positive effects

21.0% of the interviewees had no opinion.
2.8% did not answer.
Values below 2.5% are not included in the chart.

21.0% of the interviewees had no opinion.
2.8% did not answer.
Values below 2.5% are not included in the chart.

30

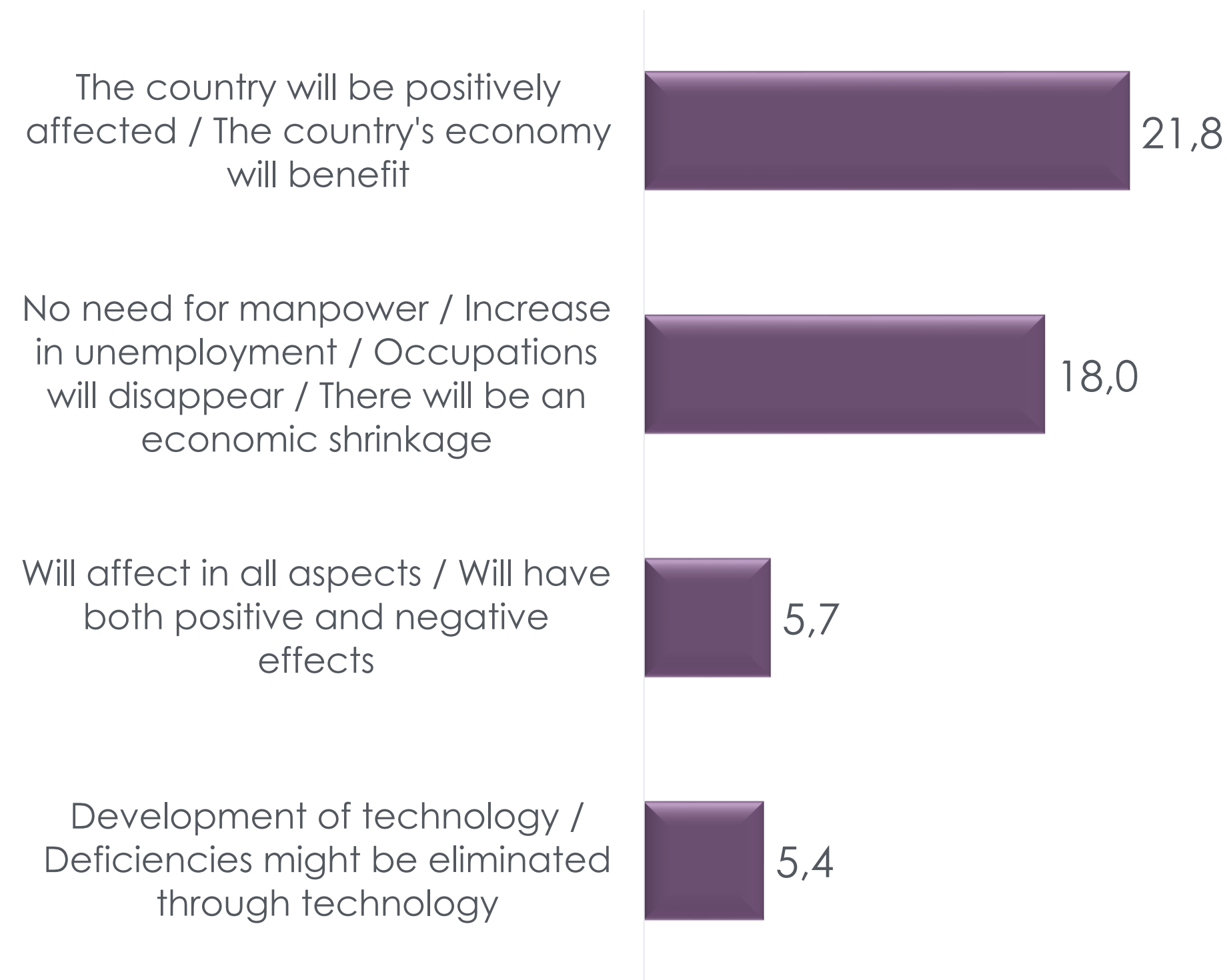- What are the areas that will be most affected by artificial intelligence?
- Why and how will these areas be affected?

Economics-Education Breakdown

Reasons for Economics to be Affected by Artificial Intelligence (%)

The country will be positively affected / The country's economy will benefit	21,8
No need for manpower / Increase in unemployment / Occupations will disappear / There will be an economic shrinkage	18,0
Will affect in all aspects / Will have both positive and negative effects	5,7
Development of technology / Deficiencies might be eliminated through technology	5,4

Base (Those who say that economy will be affected)	273

Reasons for Education to be Affected by Artificial Intelligence (%)

Will make positive contributions to education	25,5
No need for manpower / Reduces employment / Increase in unemployment / Occupations will disappear	10,3
Will provide convenience / will be helpful	8,2
The country will be positively affected / The country's economy will benefit	6,6
Will make positive contributions to education	6,6
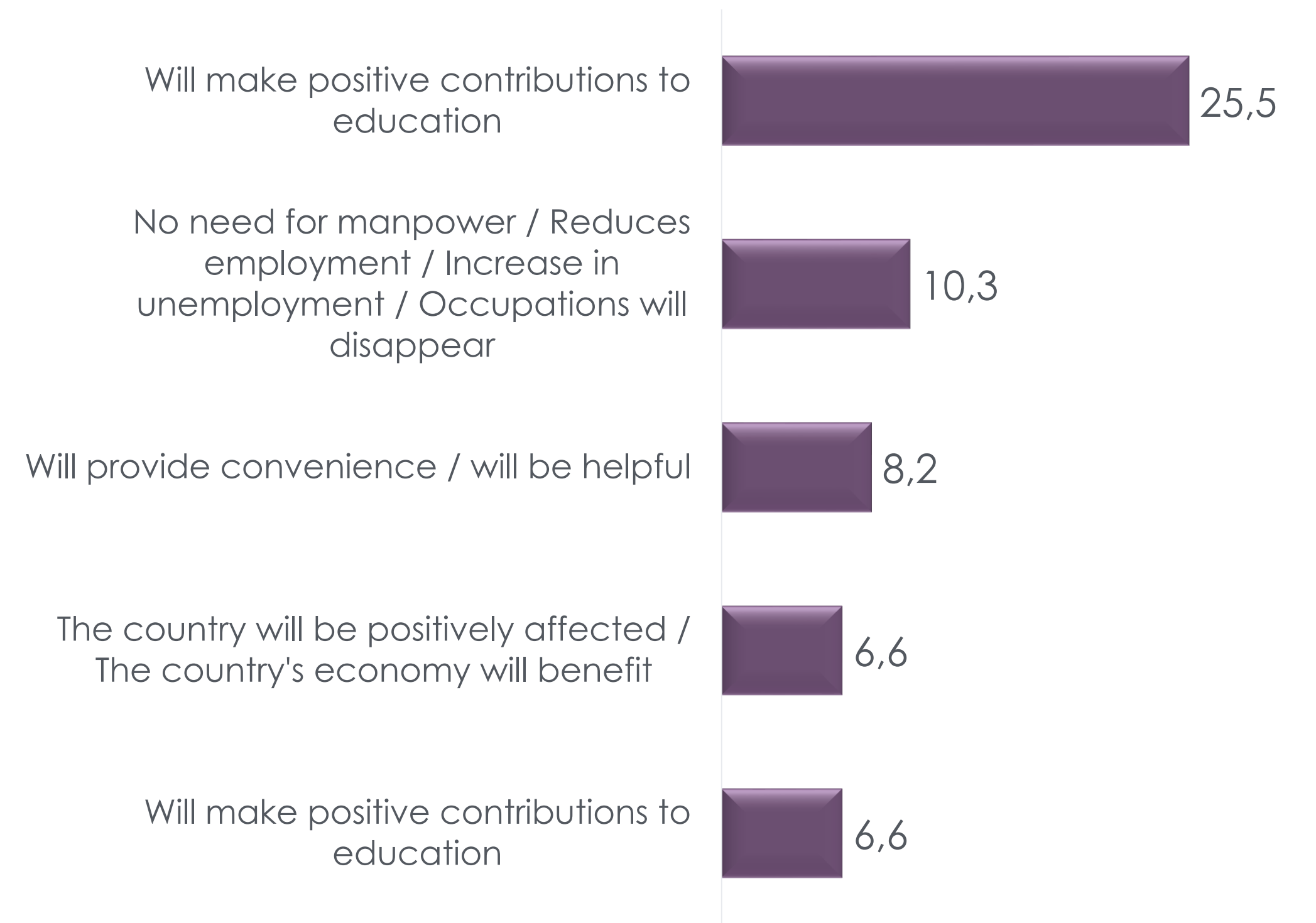
Base (Those who say that education will be affected)	196

- Do you want to be interested in artificial intelligence in the future?
- In which field do you want to be involved in artificial intelligence?

General

28.9% of the interviewees want to be interested in artificial intelligence, and 6.5% of them hope to be involved in the field of education. 52.1% of the 14-18 age group (71 people) want to be interested in artificial intelligence, and 32.4% of them hope to be involved in the field of education.

**Interest in Artificial Intelligence
in the Future (%)**

28,9

71,1

⊻ Yes ◼ No

The Field of Interest (%)

Education	6,5
Economy	3,4
Entrepreneurship	3,3
Media and Communication	3,2
Environment and Climate	2,7
Law and Human Rights	2,6
Health	2,5
Energy	2,4
E-commerce	2,0
Agriculture and Rural Development	1,9
Security and Foreign Policy	1,6
Culture and Art	1,6
Sport	1,3
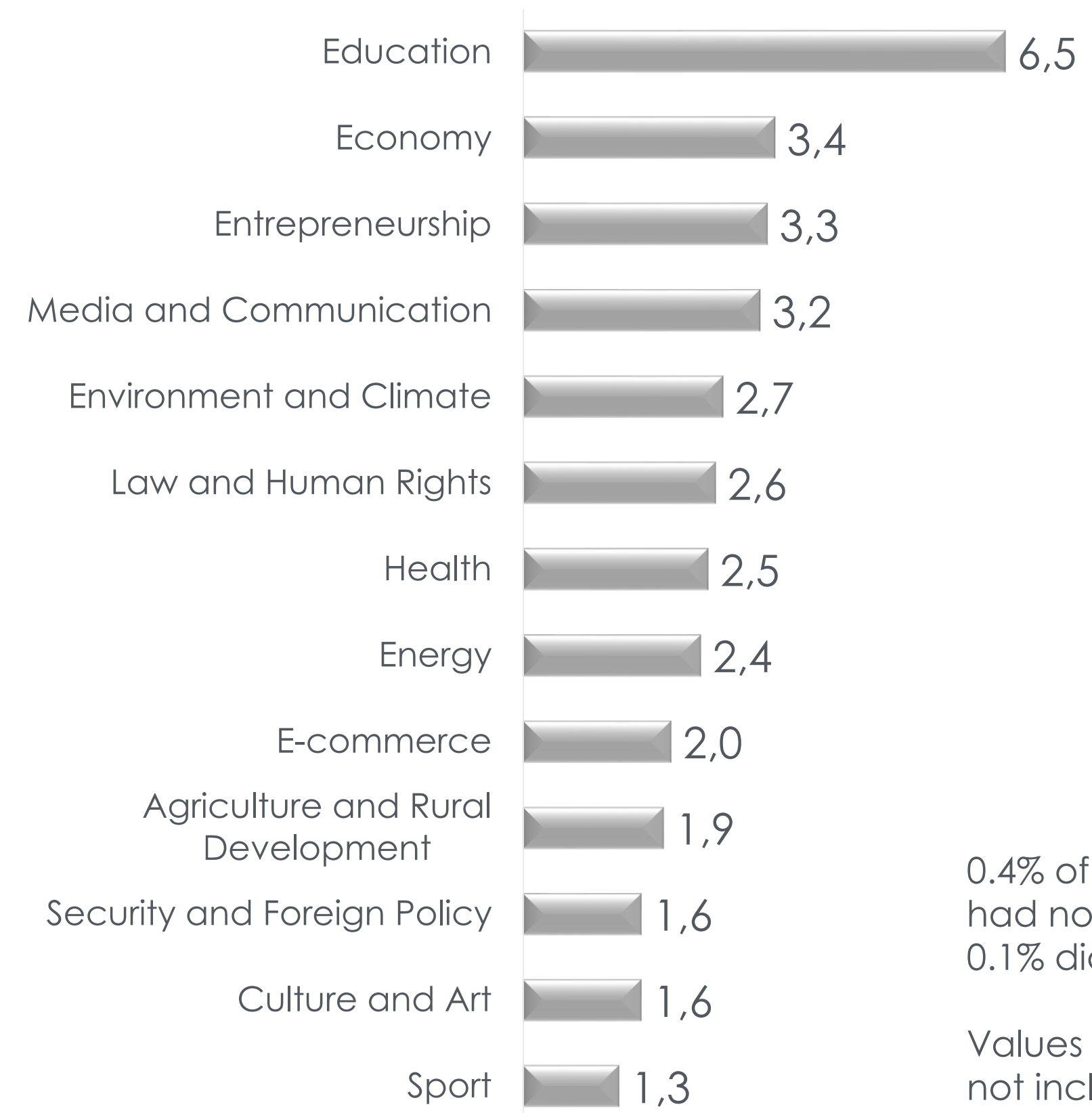
0.4% of the interviewees had no opinion.
0.1% did not answer.

Values below 1.3% are not included in the chart.

Base	1135

Base (Those who want to be interested in AI)	328

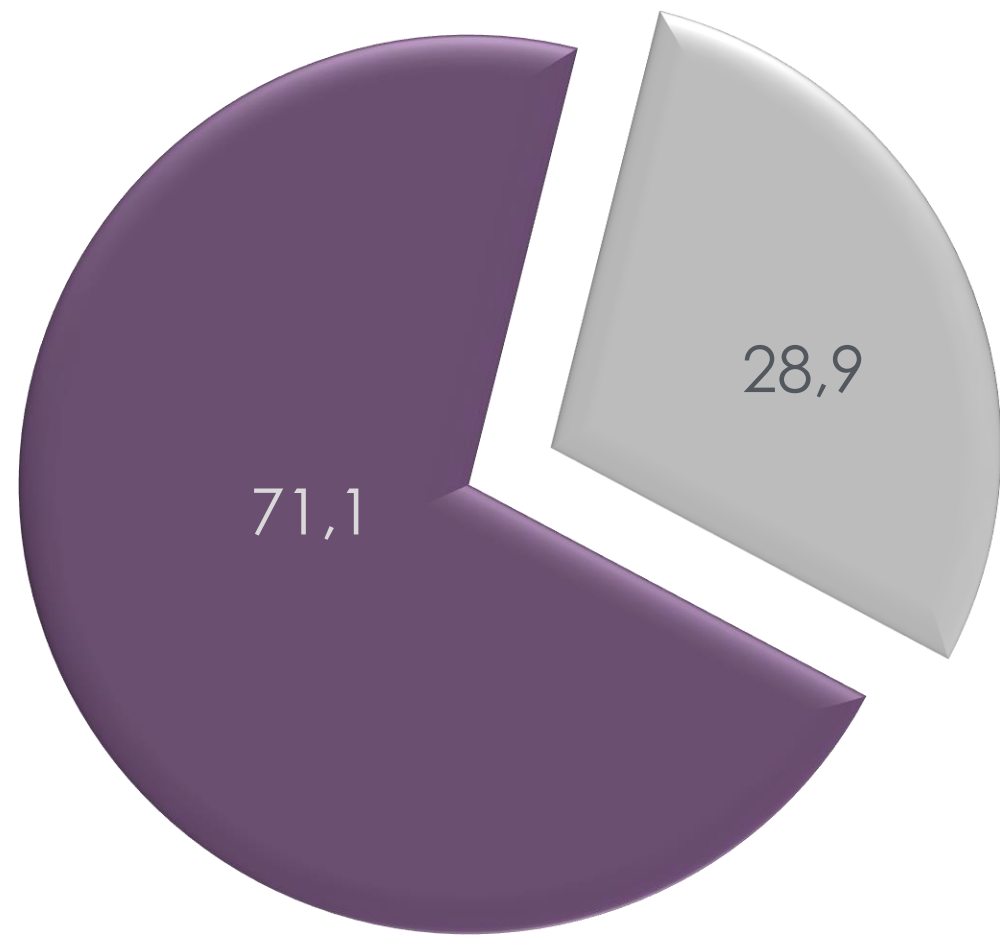# Interest in Artificial Intelligence in the Future and The Field of Interest (%)

- Do you want to be interested in artificial intelligence in the future?
- In which field do you want to be involved in artificial intelligence?
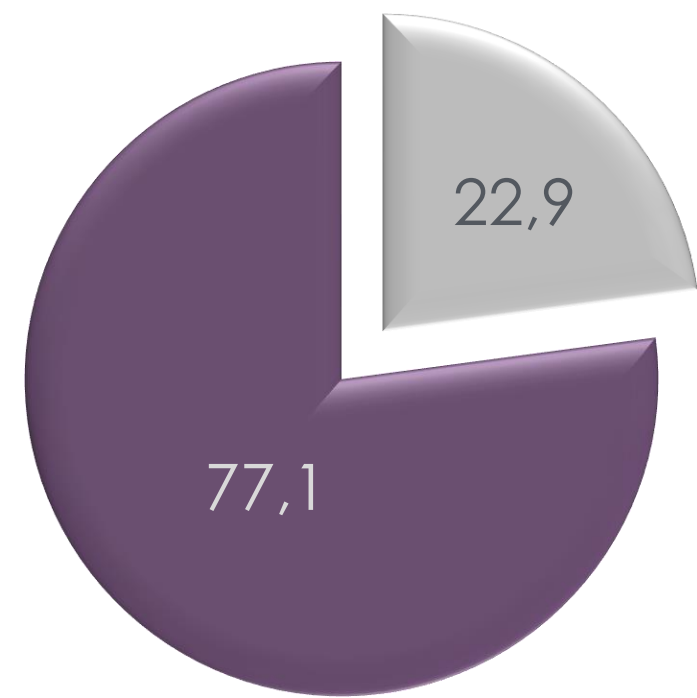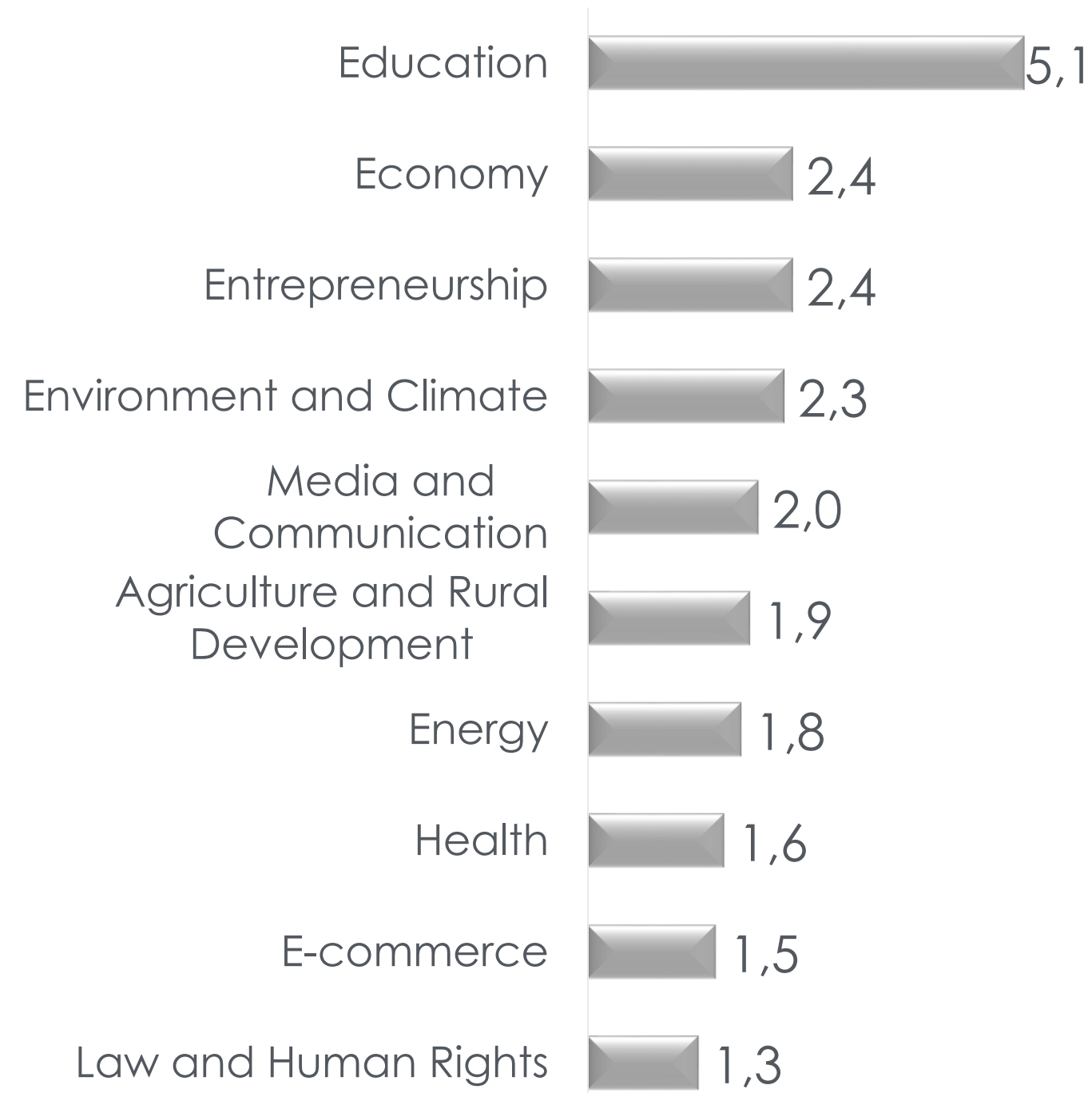
Society

Interest in Artificial Intelligence in the Future (%)

- Yes: 22,9
- No: 77,1

Base (Society)	800

The Field of Interest (%)

Field	%
Education	5,1
Economy	2,4
Entrepreneurship	2,4
Environment and Climate	2,3
Media and Communication	2,0
Agriculture and Rural Development	1,9
Energy	1,8
Health	1,6
E-commerce	1,5
Law and Human Rights	1,3

Values below 1.3% are not included in the chart.

Base (Those who want to be interested in AI)	183

Students

Interest in Artificial Intelligence in the Future (%)

- Yes: 43,3
- No: 56,7
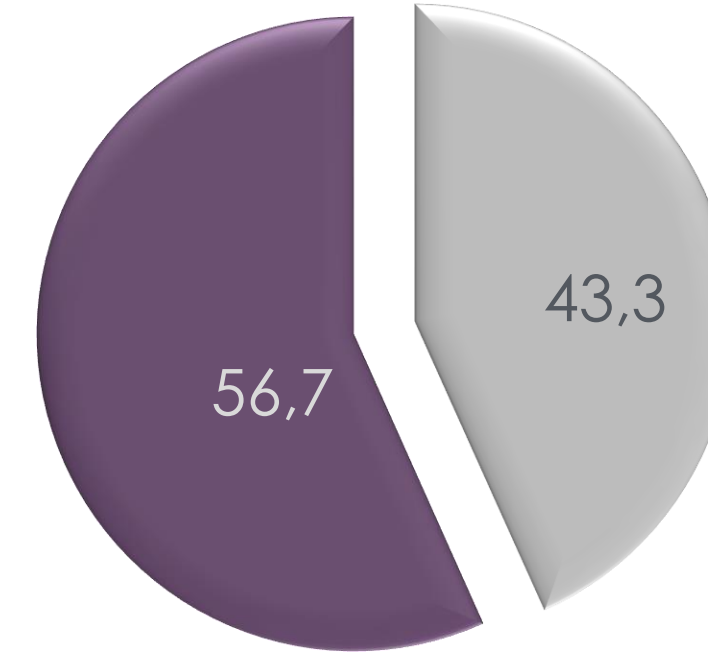
Base (Students)	335

The Field of Interest (%)

Field	%
Education	9,9
Economy	6,0
Media and Communication	6,0
Entrepreneurship	5,7
Law and Human Rights	5,7
Health	4,5
Environment and Climate	3,9
Energy	3,9
E-commerce	3,3
Security and Foreign Policy	3,0
Culture and Art	3,0
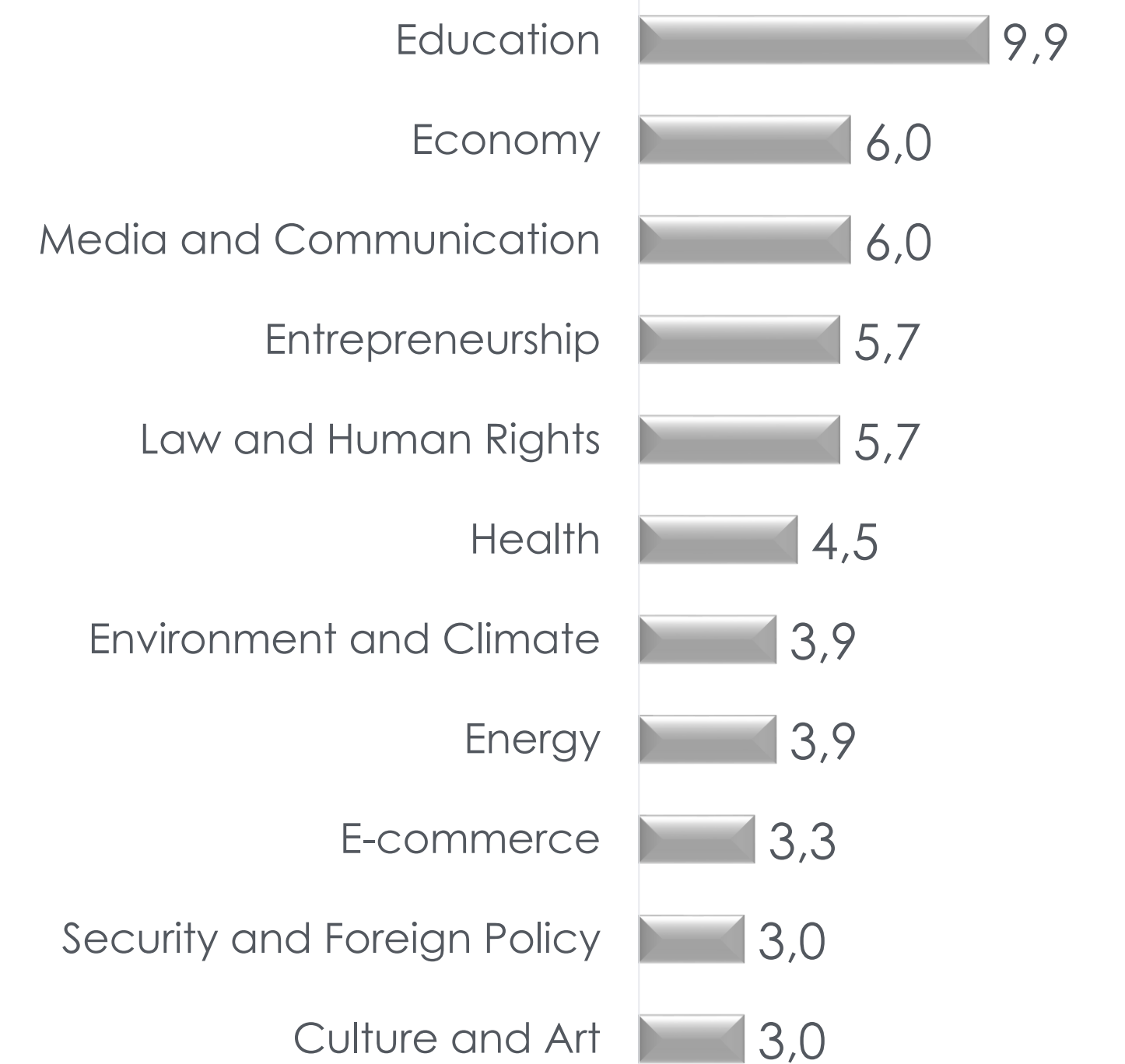
Values below 3.0% are not included in the chart.

Base (Those who want to be interested in AI)	145

Consent to The Work of Artificial Intelligence for Humanity and Trust in Artificial Intelligence-Based Products (%)

- I think that artificial intelligence should work for humanity, not for a single company.
- Do you have trust in Artificial Intelligence based/focused products (a robot that prepares meals, a judge with artificial intelligence, a driverless car, an AI camera that detects criminals, etc.)?

General

60.8% of the interviewees indicated that artificial intelligence should work for humanity as well.
48.4% of the interviewees stated that they do not have trust in artificial intelligence-based products.

Consent to The Work of Artificial Intelligence for Humanity (%)

Strongly agree	31,2
Agree	29,6
Neither agree nor disagree	15,1
Disagree	16,9
Strongly disagree	7,2

Trust in Artificial Intelligence-Based Products (%)

I absolutely trust	7,0
I trust	25,4
I neither trust nor distrust	19,3
I distrust	33,5
I absolutely distrust	14,9

Base	1135

Reasons to Trust and Distrust Artificial Intelligence-Based Products (%)

- You've stated that you do not trust AI-based/focused products. Would you please indicate your reasons?
- You've stated that you trust AI-based/focused products. Would you please indicate your reasons?

36.8% of those who do not trust artificial intelligence-based products stated that they don't have a trust in robots.

Reasons to Distrust Artificial Intelligence-Based Products (%)

Reason	%
I don't trust robots / After all, it is a robot, it can't do everything	36,8
Terrifying / scary	6,4
Because it's artificial / As it is called / Man-made	5,6
Dangerous	4,0
I'm afraid that it will replace humans / Threat to humanity	4,0
It can't make decisions because it has no feelings / No moral values	3,8
There might be a security gap	3,3

25.1% of the interviewees had no opinion.
5.3% did not answer.

Values below 3.3% are not included in the chart.

Base (Those who do not trust AI-based products)	549

Reasons to Trust Artificial Intelligence-Based Products (%)

Reason	%
Low error rate / Has fewer faults / Safer than humans	18,1
Will provide convenience / Will make life easier	14,8
Because it is systematic / Because it has a proven and determined algorithm	13,8
I can't fully trust / I'm not sure / I'm neutral / I'm skeptical	8,9
We have to trust / In the new world order, there is no choice but to trust	6,8
Sounds reliable / I see no reason not to trust	4,9
I trust technology	4,4

13.1% of the interviewees had no opinion.
3.6% did not answer.

Values below 4.4% are not included in the chart.

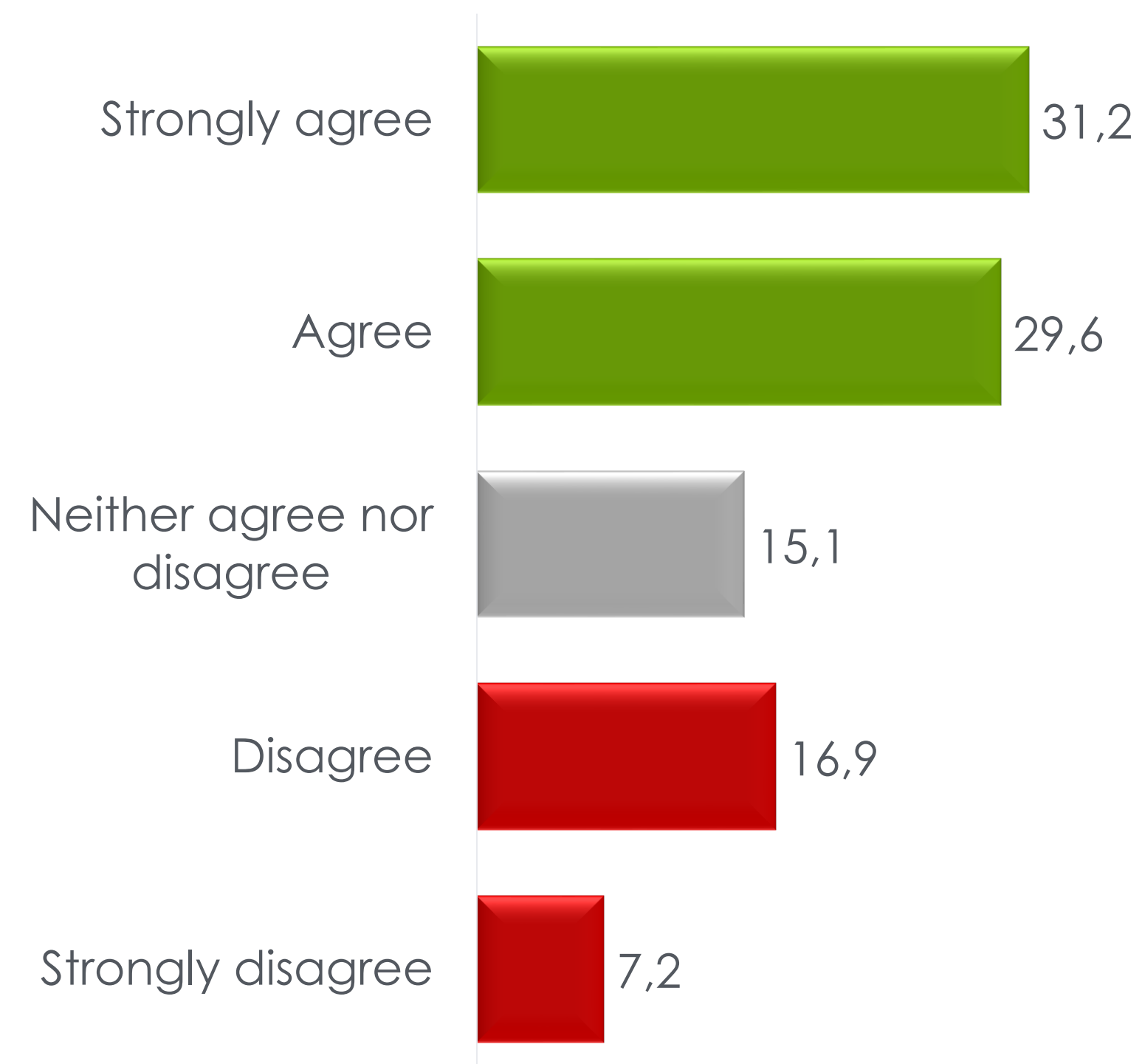| Base (Those who trust AI-based products)	586

35

Consent to The Work of Artificial Intelligence for Humanity and Trust in Artificial Intelligence-Based Products (%)

- I think that artificial intelligence should work for humanity, not for a single company.
- Do you have trust in Artificial Intelligence based/focused products (a robot that prepares meals, a judge with artificial intelligence, a driverless car, an AI camera that detects criminals, etc.)?
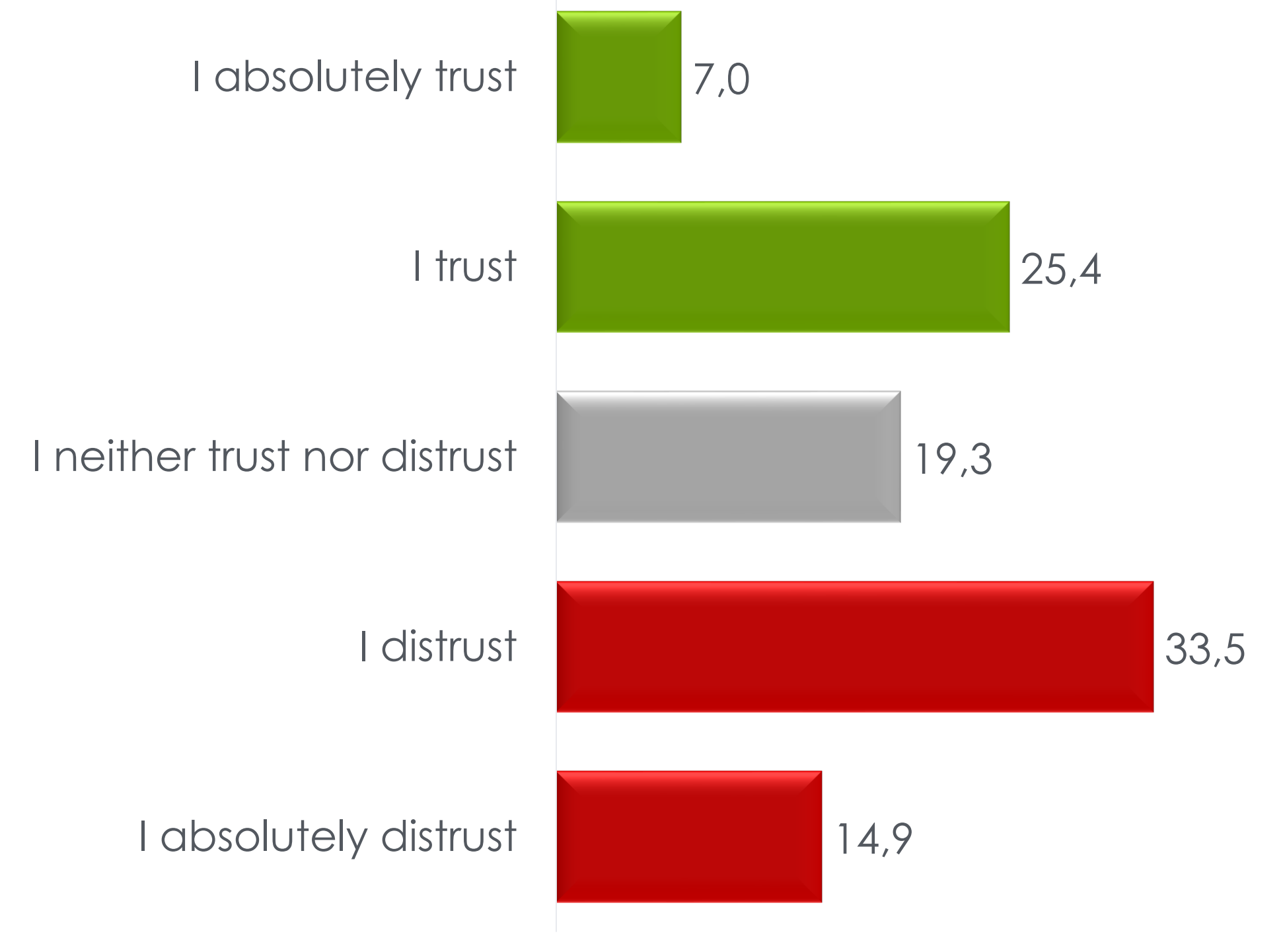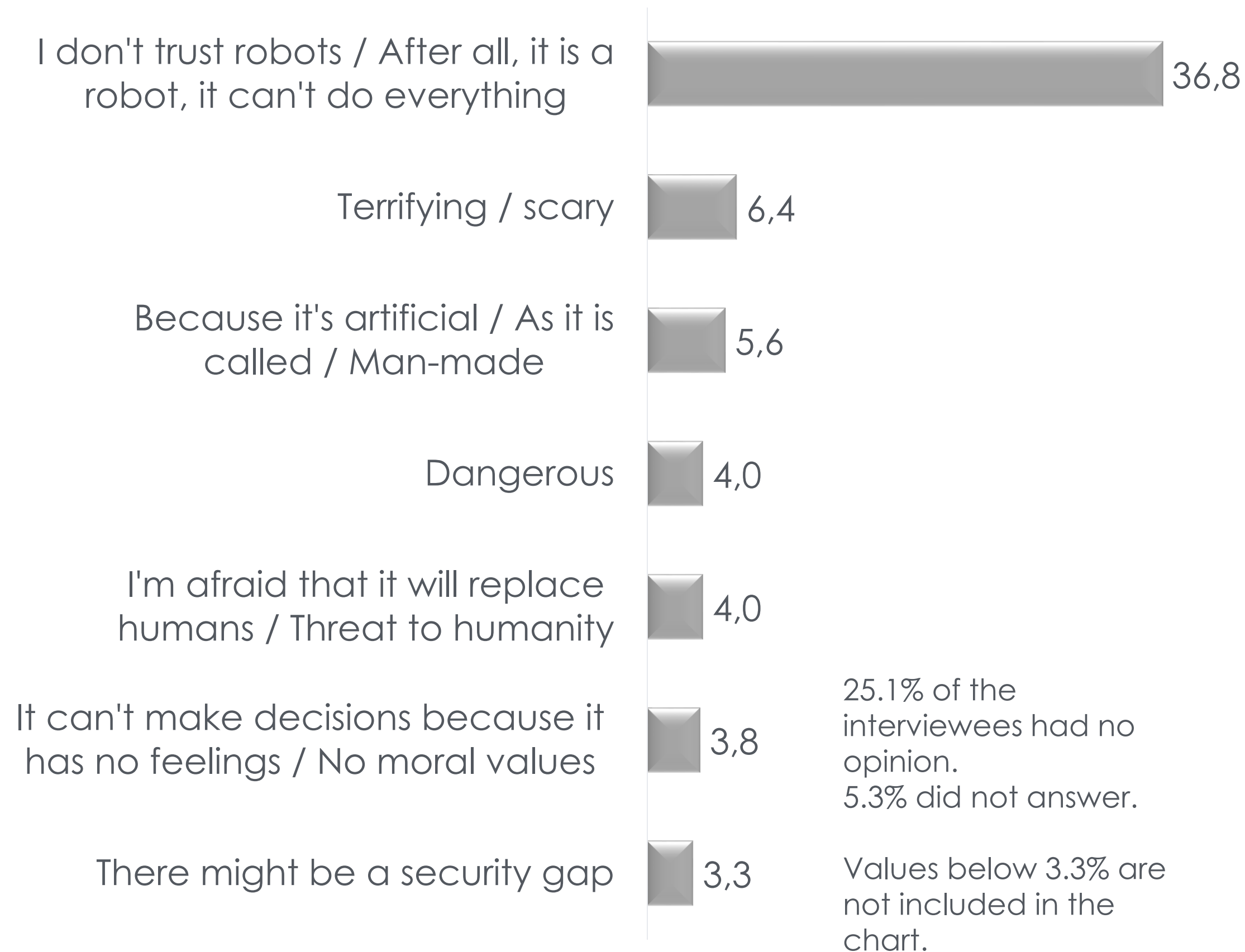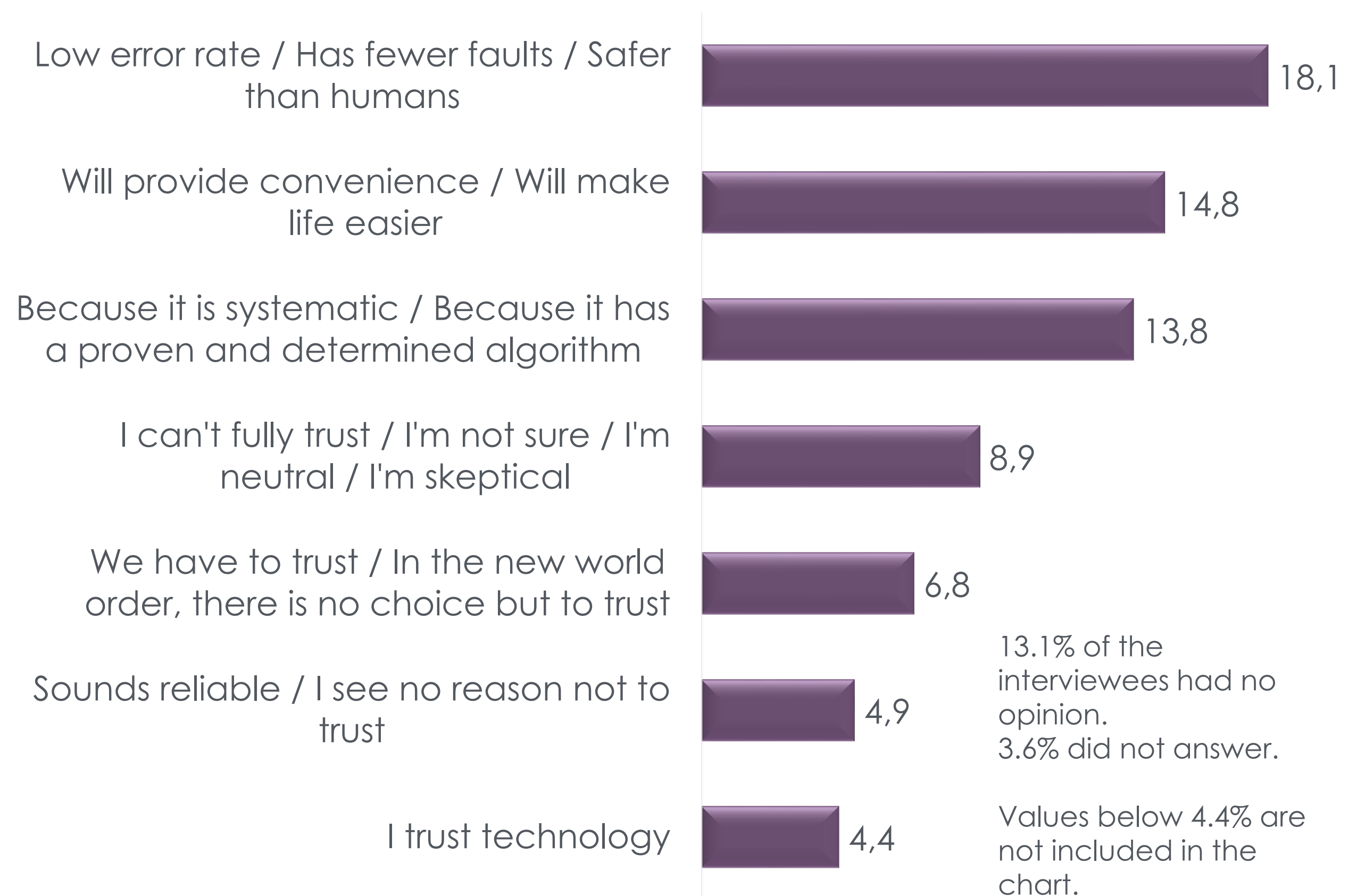
Society

Consent to The Work of Artificial Intelligence for Humanity (%)

Strongly agree	32,1
Agree	31,6
Neither agree nor disagree	14,6
Disagree	16,5
Strongly disagree	5,1

Base (Society)	800

Trust in Artificial Intelligence-Based Products (%)

I absolutely trust	6,4
I trust	25,8
I neither trust nor distrust	16,5
I distrust	36,5
I absolutely distrust	14,9

Students

Consent to The Work of Artificial Intelligence for Humanity (%)

Strongly agree	29,0
Agree	24,8
Neither agree nor disagree	16,1
Disagree	17,9
Strongly disagree	12,2

Base (Students)	335

Trust in Artificial Intelligence-Based Products (%)
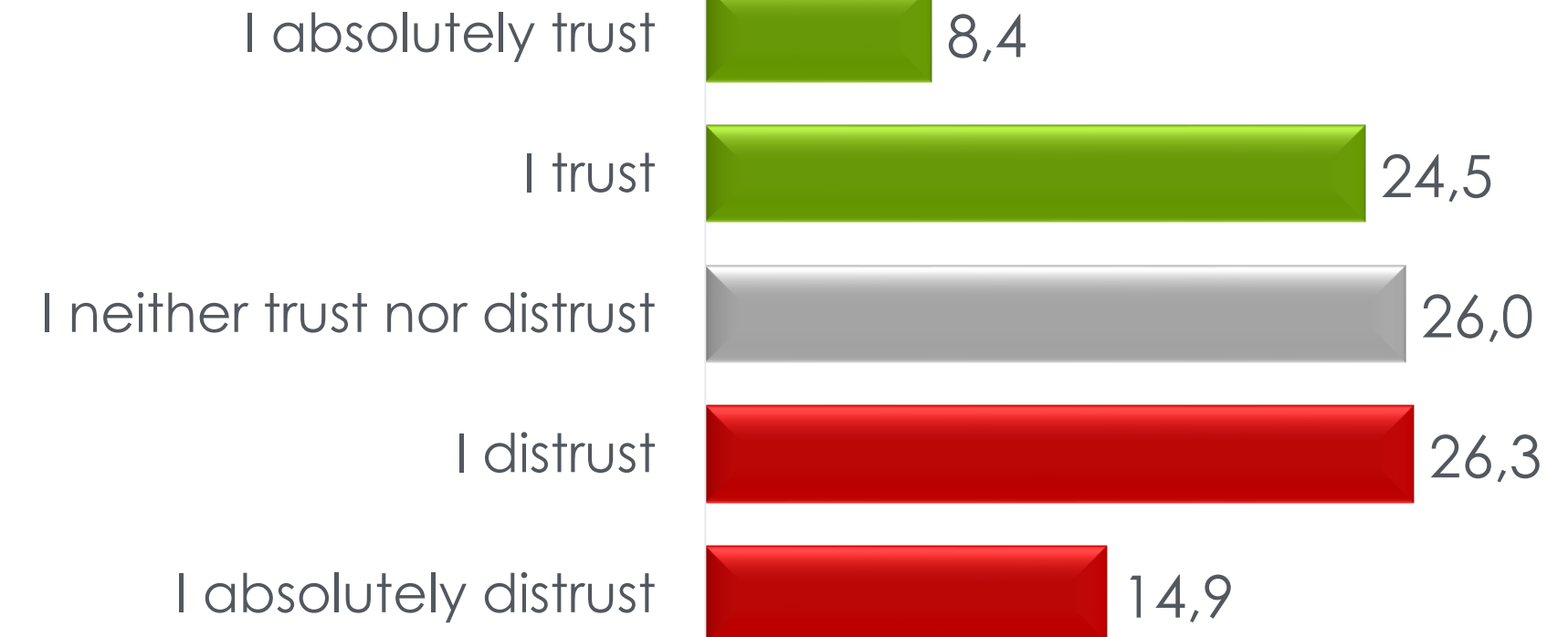
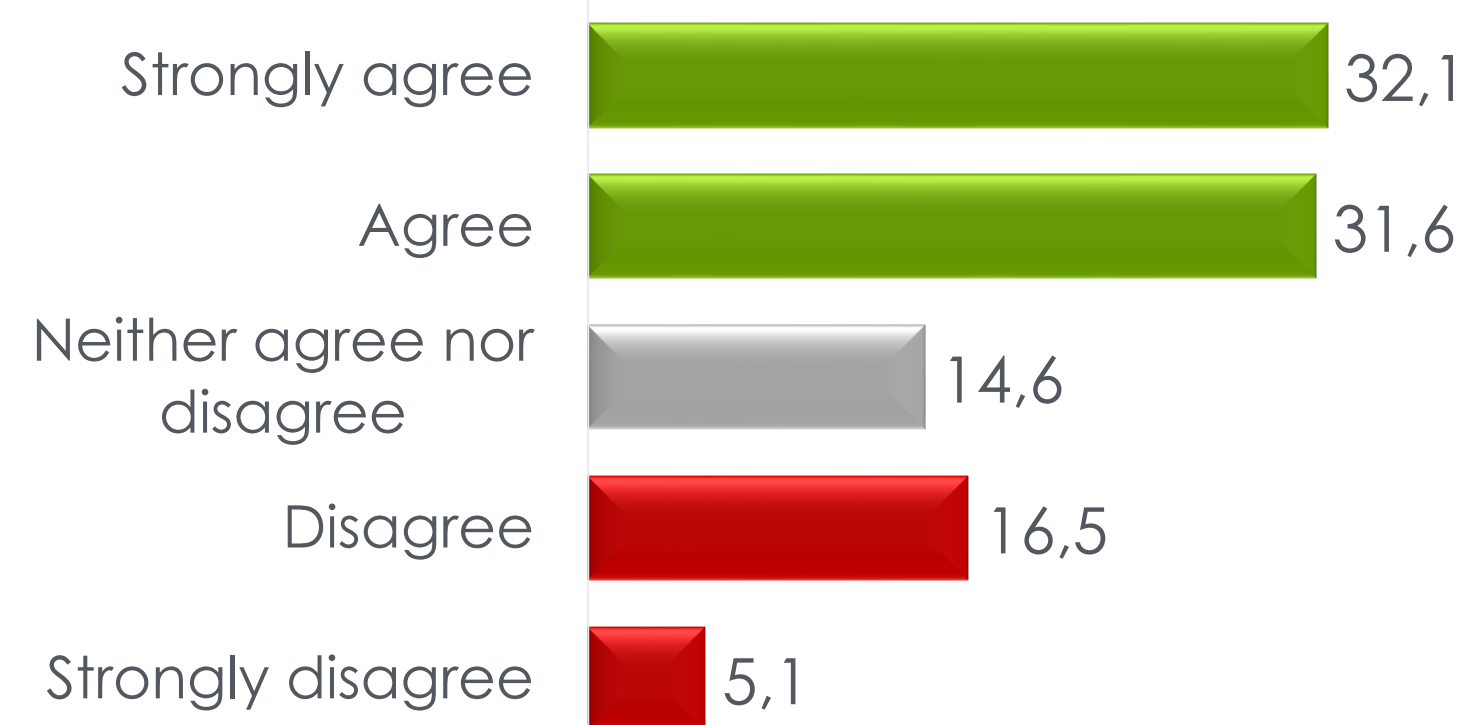|	
I absolutely trust	8,4
I trust	24,5
I neither trust nor distrust	26,0
I distrust	26,3
I absolutely distrust	14,9

36

Consent to The Work of Artificial Intelligence for Humanity and Trust in Artificial Intelligence-Based Products (%)

- I think that artificial intelligence should work for humanity, not for a single company.
- Do you have trust in Artificial Intelligence based/focused products (a robot that prepares meals, a judge with artificial intelligence, a driverless car, an AI camera that detects criminals, etc.)?
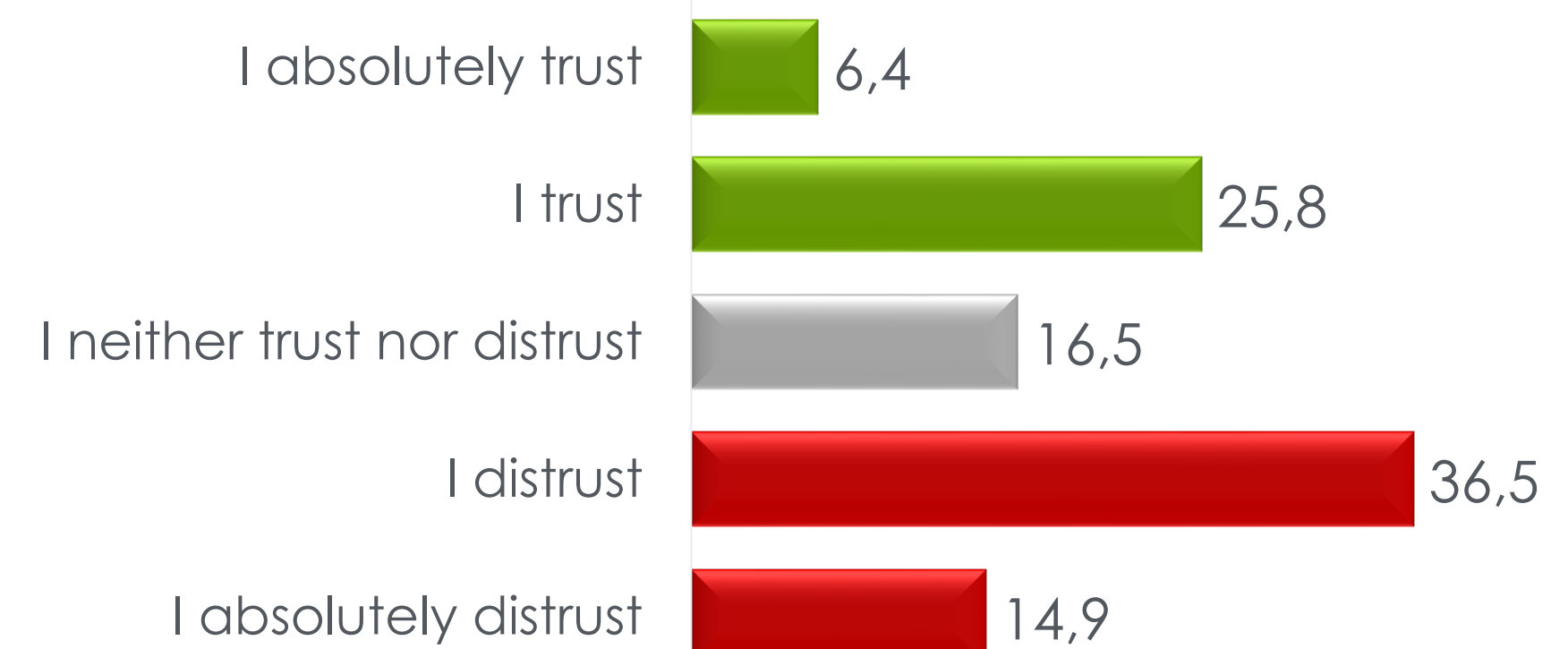
14-18 Age Group

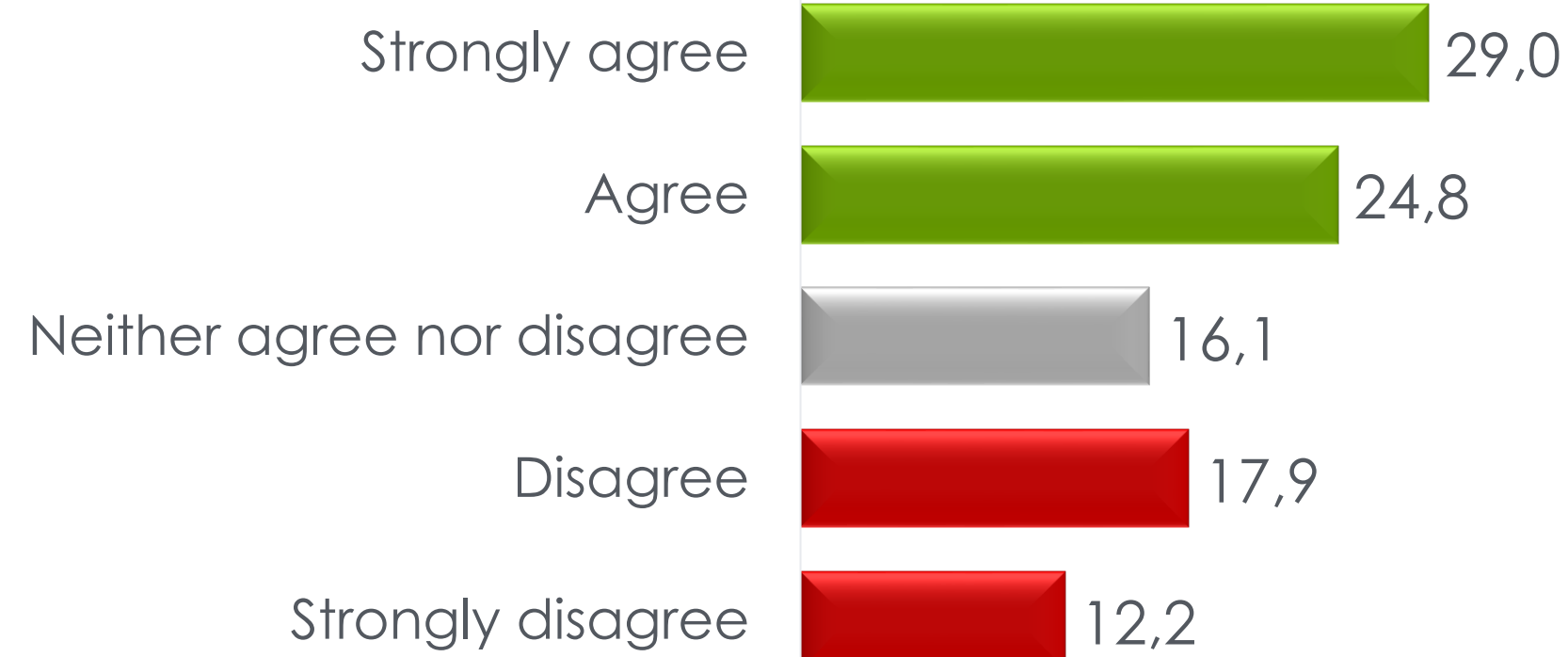### Consent to The Work of Artificial Intelligence for Humanity (%)

Strongly agree	26,8
Agree	31,0
Neither agree nor disagree	15,5
Disagree	15,5
Strongly disagree	11,3

Trust in Artificial Intelligence-Based Products (%)

I absolutely trust	19,7
I trust	31,0
I neither trust nor distrust	15,5
I distrust	28,2
I absolutely distrust	5,6
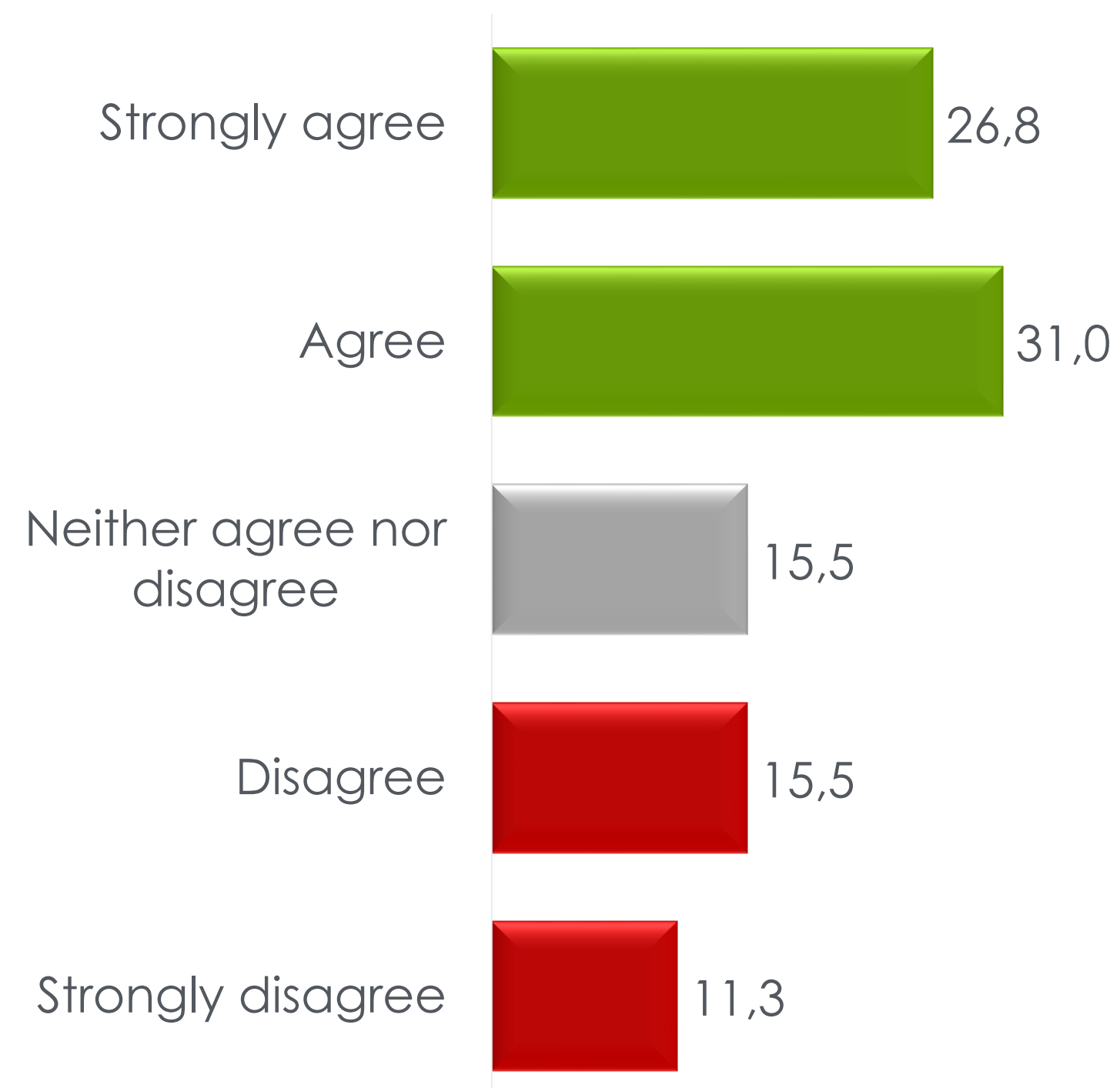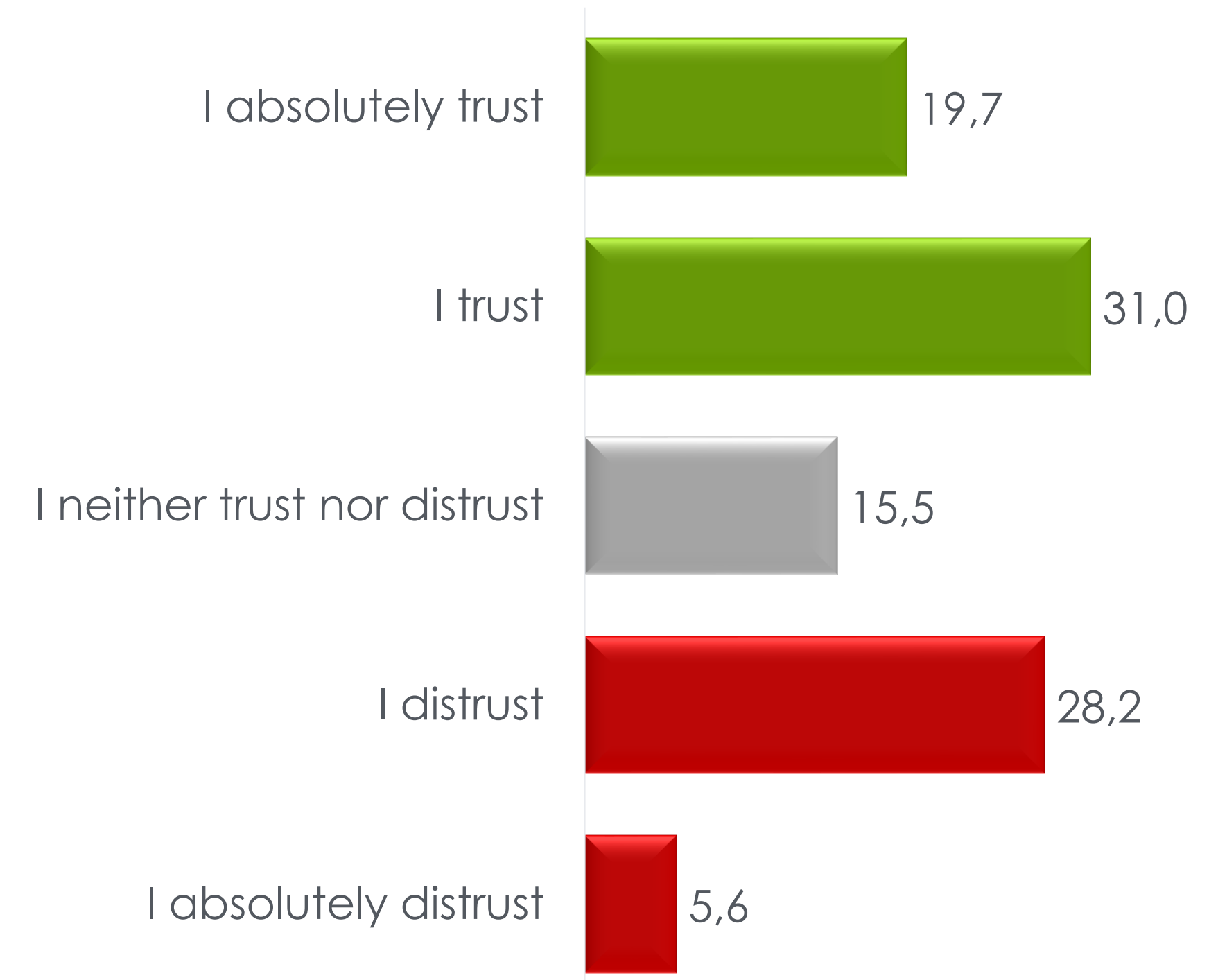
Base	71

Having a Computer/Software Training and Trainings Received (%)

- Have you received any training on computer/software?
- Which trainings did you receive?

AIPA YAPAY ZEKA POLİTİKALARI DERNEĞİ

Kuantum ARAŞTIRMA

89.2% of the interviewees stated that they did not receive any training on computer/software. 30.3% of the 10.8% population, who received a computer/software training, had a programming/software/coding training.

General

Having a Computer/Software Training (%)

10,8

89,2

◪ Yes ◪ No
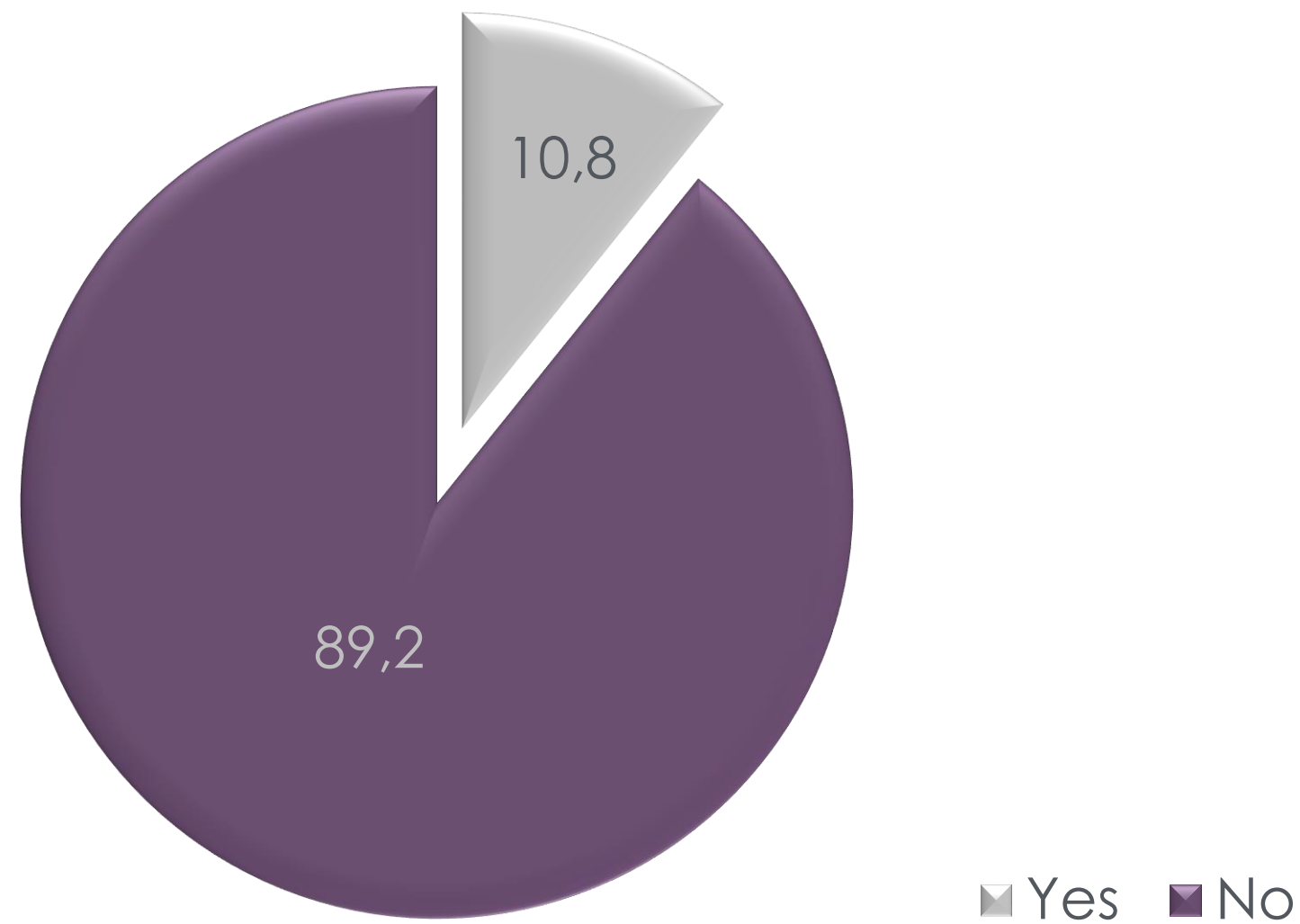
Base	1135

Trainings Received (%)

Training	%
Programming / Software / Coding	30,3
Computer / General / Basic…	19,7
Office programs / MS Office	12,3
Keyboard training	4,9
Java / Udemy Java	4,1
SPSS	3,3
AutoCAD	3,3
C++	3,3
Windows	2,5
Social Media Expertise	2,5
HTML/HTML5	1,6
Web design	1,6
Photoshop	1,6
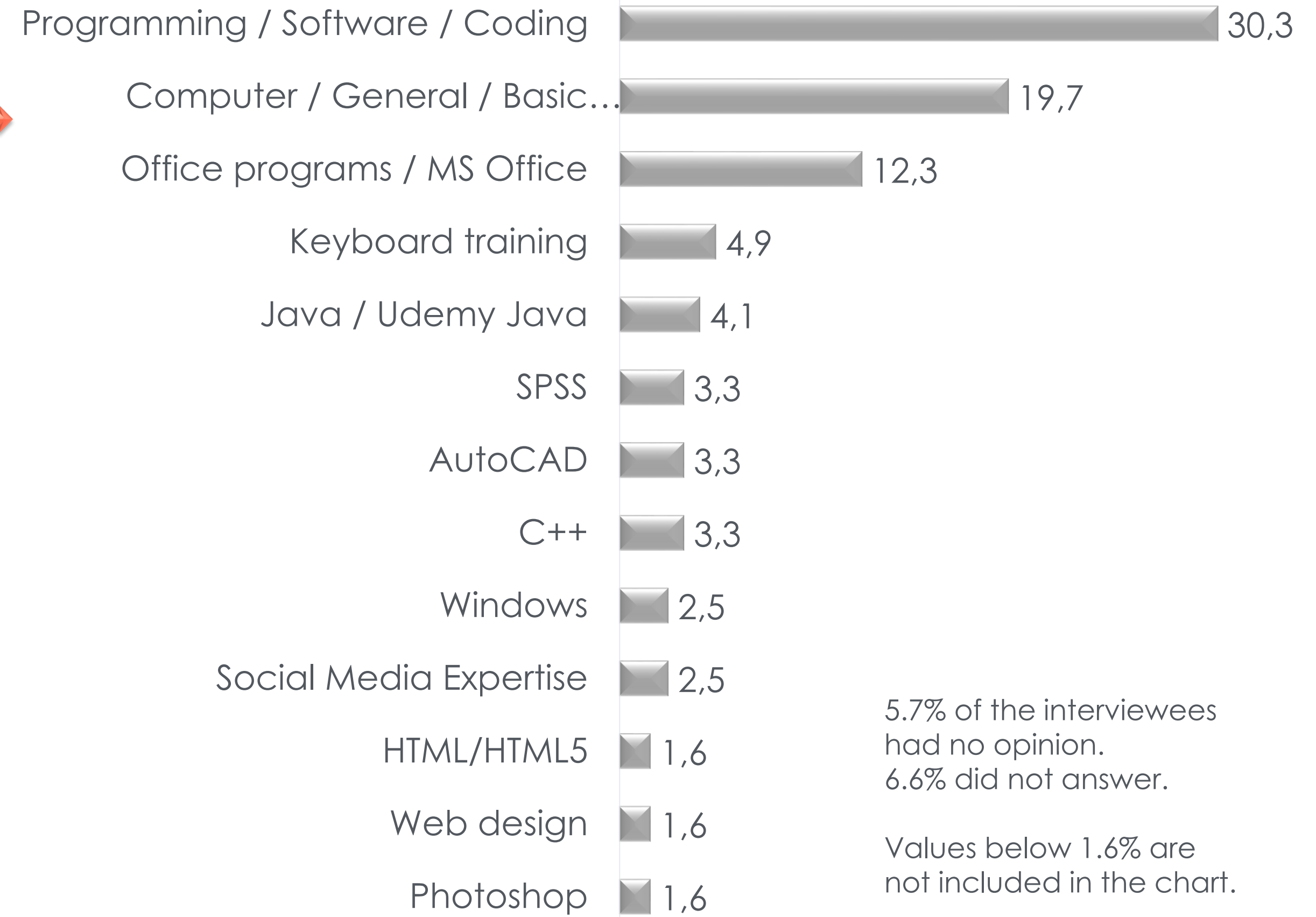
5.7% of the interviewees had no opinion.
6.6% did not answer.

Values below 1.6% are not included in the chart.

Base (Those who received a computer / software training)	123

38

Having a Computer/Software Training and Trainings Received (%)

- Have you received any training on computer/software?
- Which trainings did you receive?

Society

Having a Computer/Software Training (%)

Yes 9,1 / No 90,9
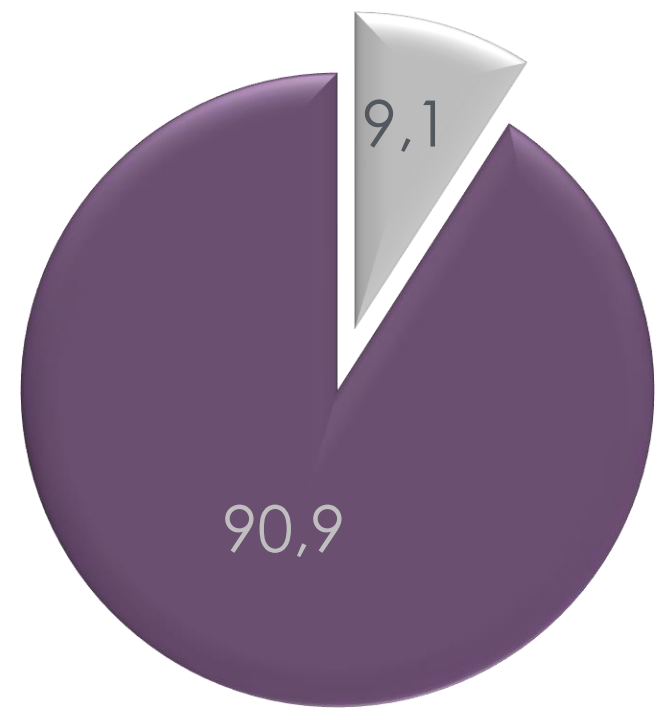
Base (Society)	800

Trainings Received (%)
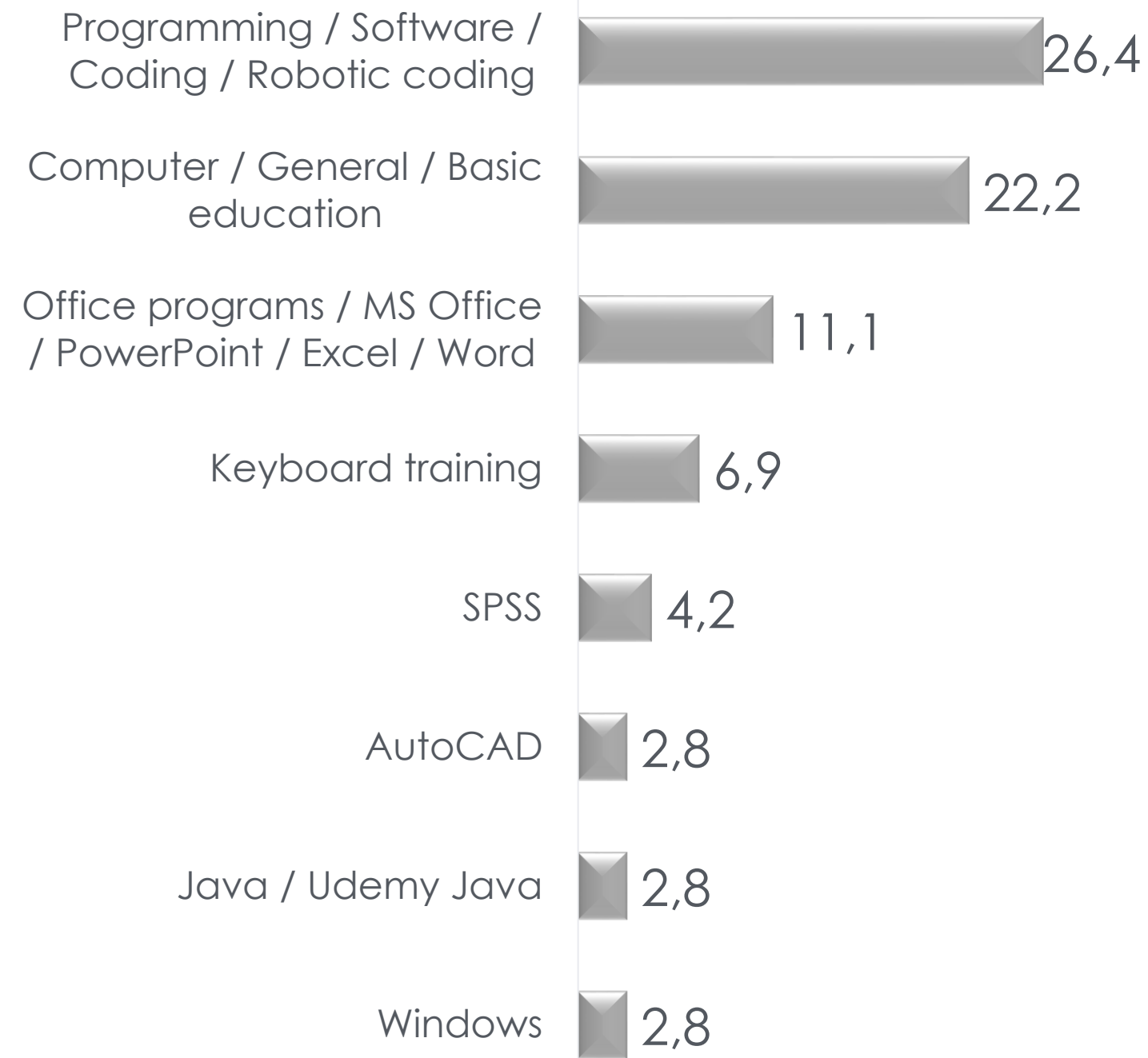
Training	%
Programming / Software / Coding / Robotic coding	26,4
Computer / General / Basic education	22,2
Office programs / MS Office / PowerPoint / Excel / Word	11,1
Keyboard training	6,9
SPSS	4,2
AutoCAD	2,8
Java / Udemy Java	2,8
Windows	2,8

Values below 2.8% are not included in the chart.

Base (Those who received a computer / software training)	73

Students

Having a Computer/Software Training (%)

Yes 14,9 / No 85,1
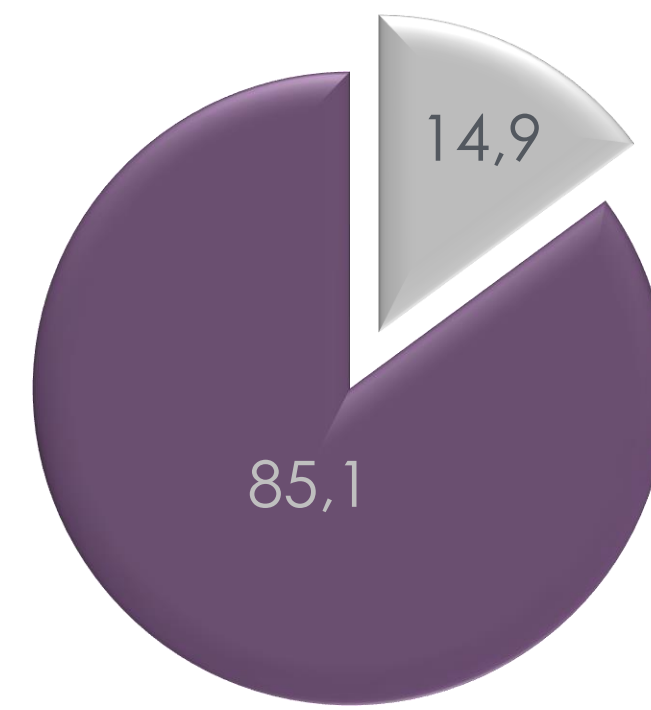
Base (Students)	335

Trainings Received (%)

Training	%
Programming / Software / Coding / Robotic coding	36,0
Computer / General / Basic education	16,0
Office programs / MS Office / PowerPoint / Excel / Word	14,0
C++	8,0
Java / Udemy Java	6,0
Social Media Expertise	6,0
AutoCAD	4,0
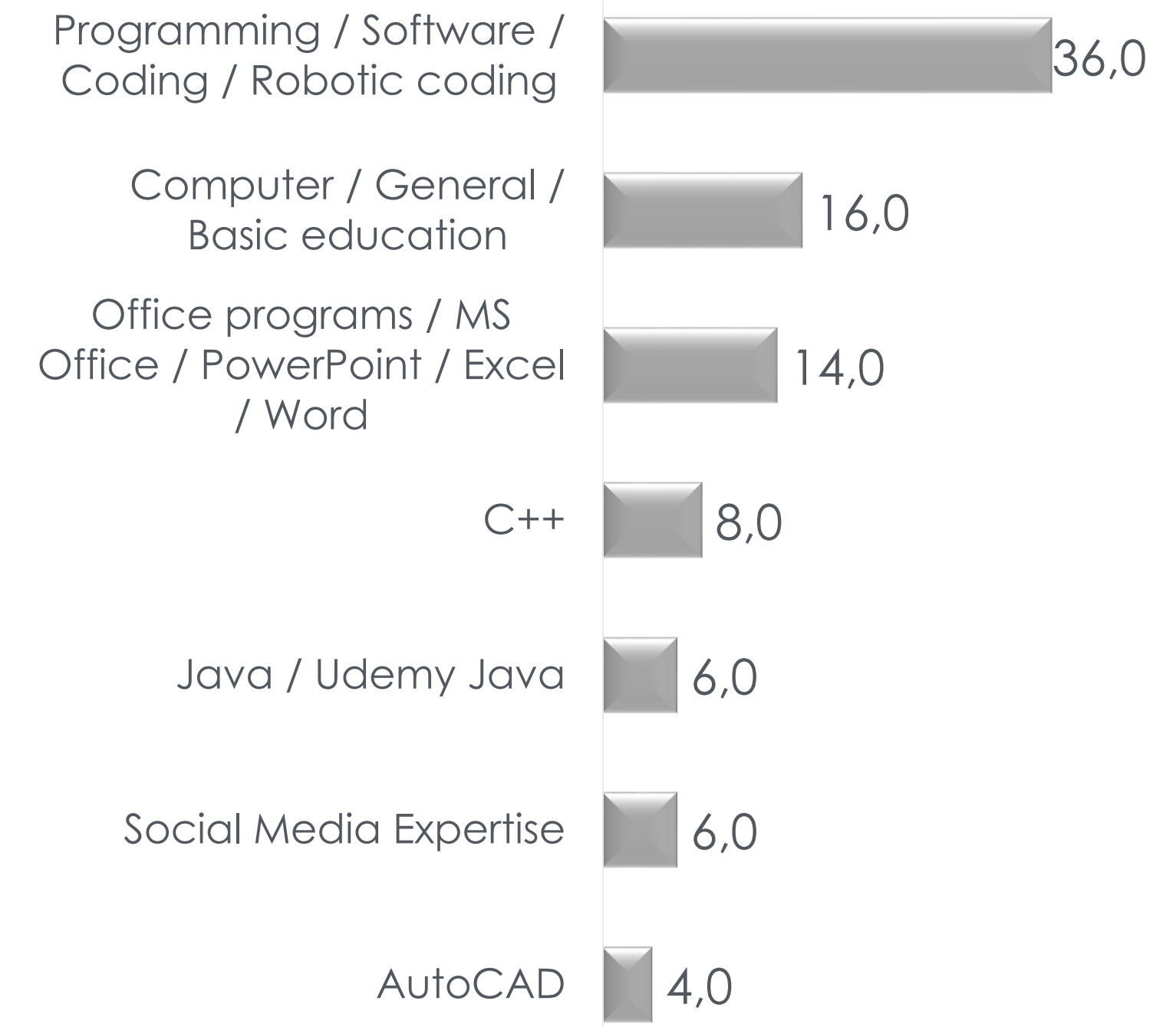
Values below 4.0% are not included in the chart.

Base (Those who received a computer / software training)	50

39

Accountability of Artificial Intelligence to Laws and Values (%)

- To what extent do you agree that artificial intelligence should be accountable to the law?
- To what extent do you agree that artificial intelligence should be accountable to social values?

While 39.5% of the interviewees agree that artificial intelligence should not be held accountable to the law, 38.9% agree that artificial intelligence should not be held accountable to social values.

General

Accountability of Artificial Intelligence to the Law (%)

Category	Value
Strongly agree	17,2
Agree	18,2
Neither agree nor disagree	25,1
Disagree	29,3
Strongly disagree	10,2

Accountability of Artificial Intelligence to Social Values (%)

Category	Value
Strongly agree	18,0
Agree	19,1
Neither agree nor disagree	24,1
Disagree	28,3
Strongly disagree	10,6

Base	1135

40

Accountability of Artificial Intelligence to Laws and Values (%)

- To what extent do you agree that artificial intelligence should be accountable to the law?
- To what extent do you agree that artificial intelligence should be accountable to social values?

Society

Accountability of Artificial Intelligence to the Law (%)

Strongly agree	19,9
Agree	18,5
Neither agree nor disagree	24,0
Disagree	28,6
Strongly disagree	9,0

Base (Society)	800

Accountability of Artificial Intelligence to Social Values (%)

Strongly agree	19,9
Agree	19,0
Neither agree nor disagree	22,5
Disagree	28,4
Strongly disagree	10,3

Students

Accountability of Artificial Intelligence to the Law (%)

Strongly agree	10,7
Agree	17,6
Neither agree nor disagree	27,8
Disagree	30,7
Strongly disagree	13,1
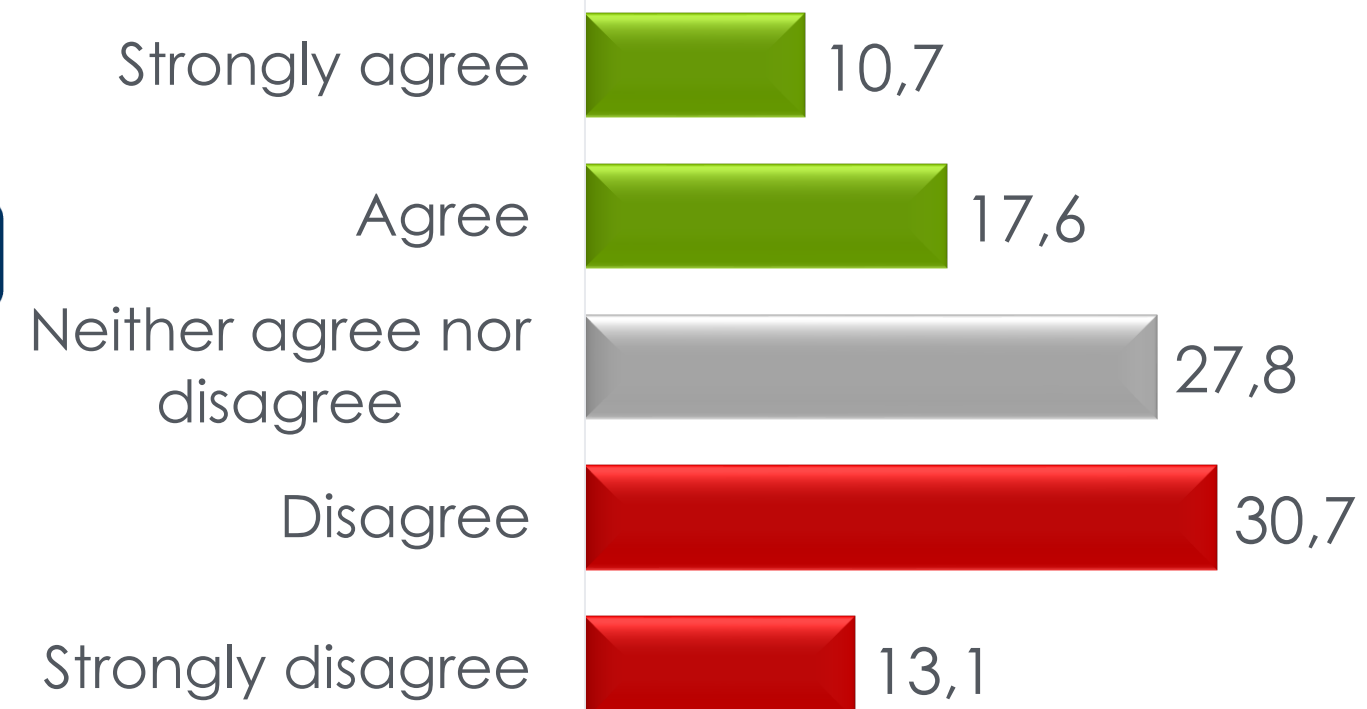
Base (Students)	335

Accountability of Artificial Intelligence to Social Values (%)
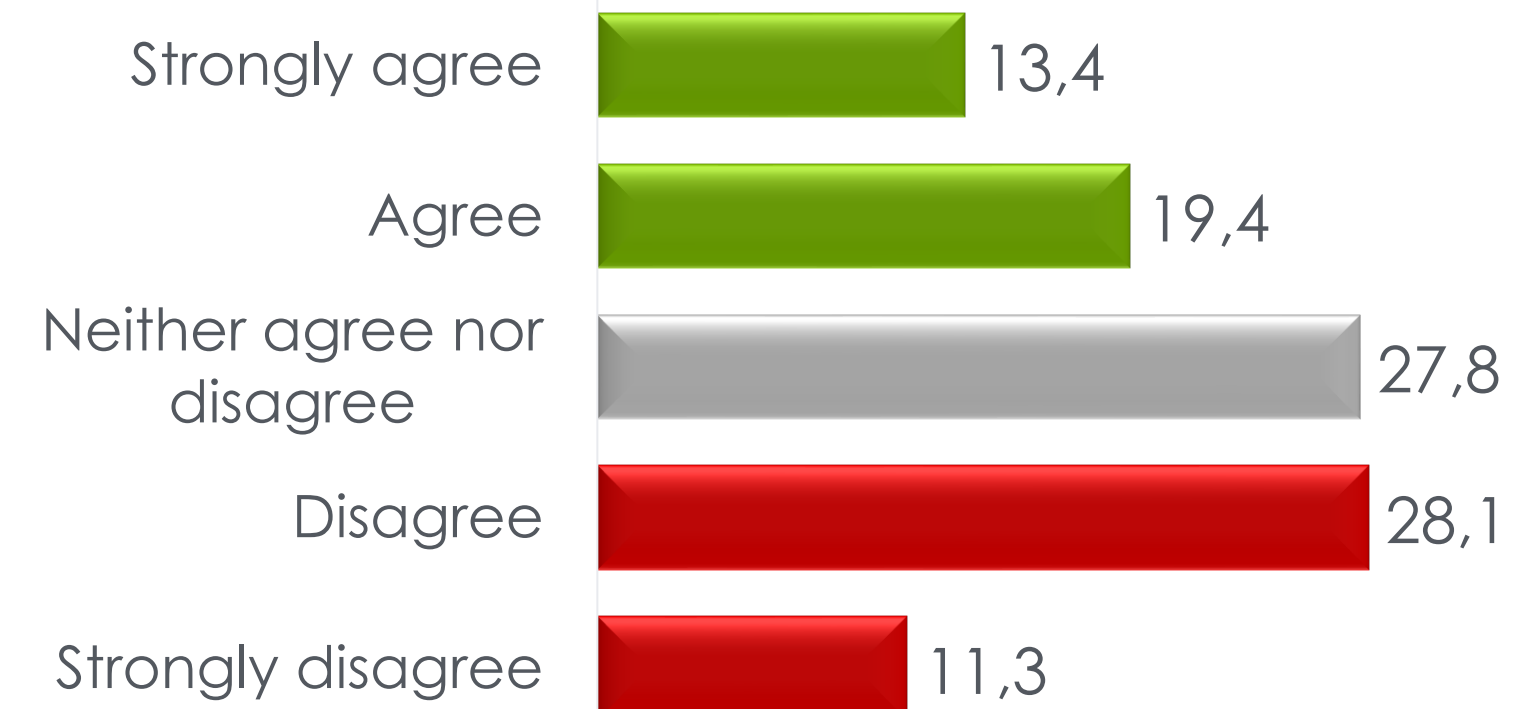
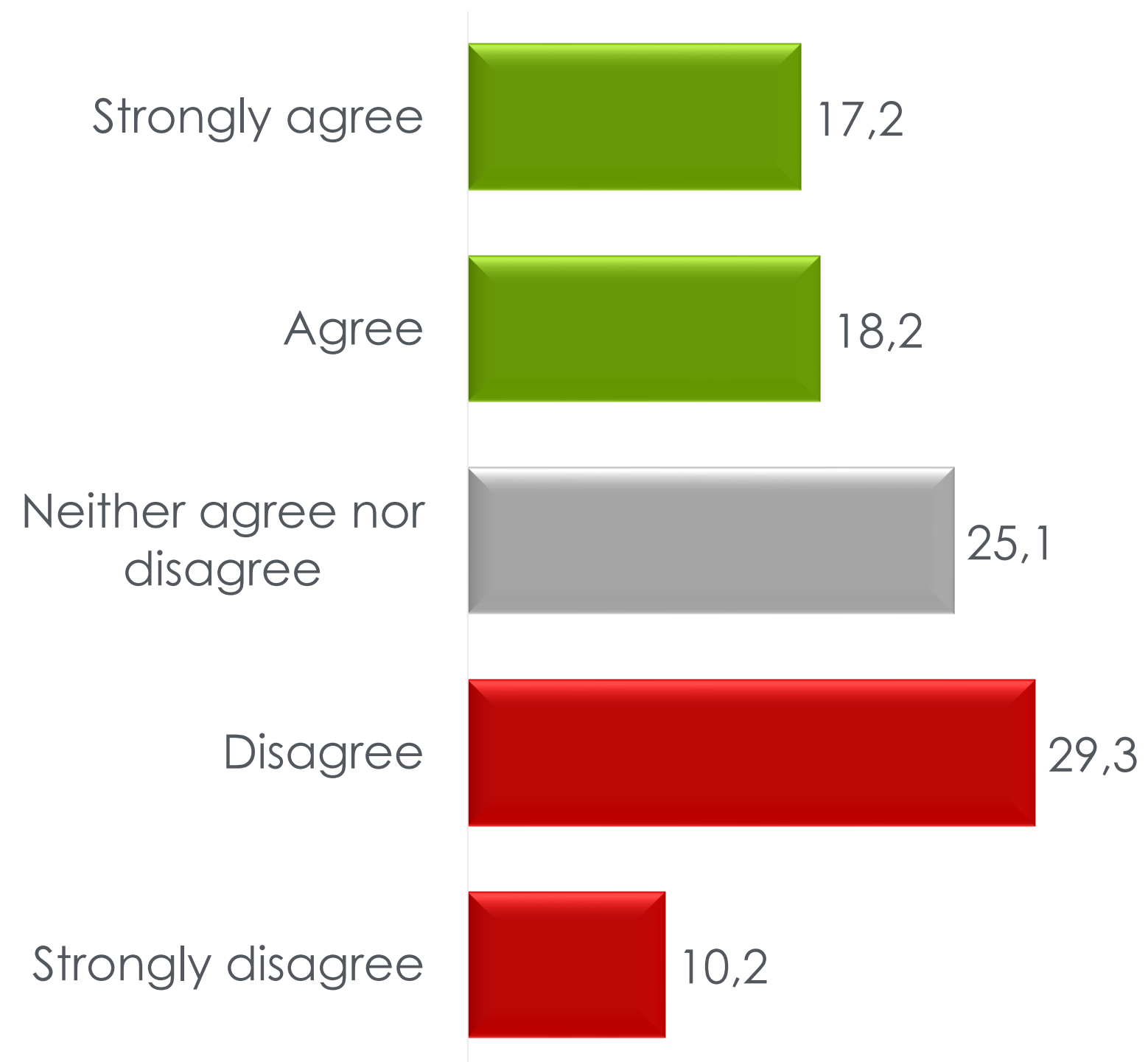|	
Strongly agree	13,4
Agree	19,4
Neither agree nor disagree	27,8
Disagree	28,1
Strongly disagree	11,3

Accountability of Artificial Intelligence to Laws and Values (%)
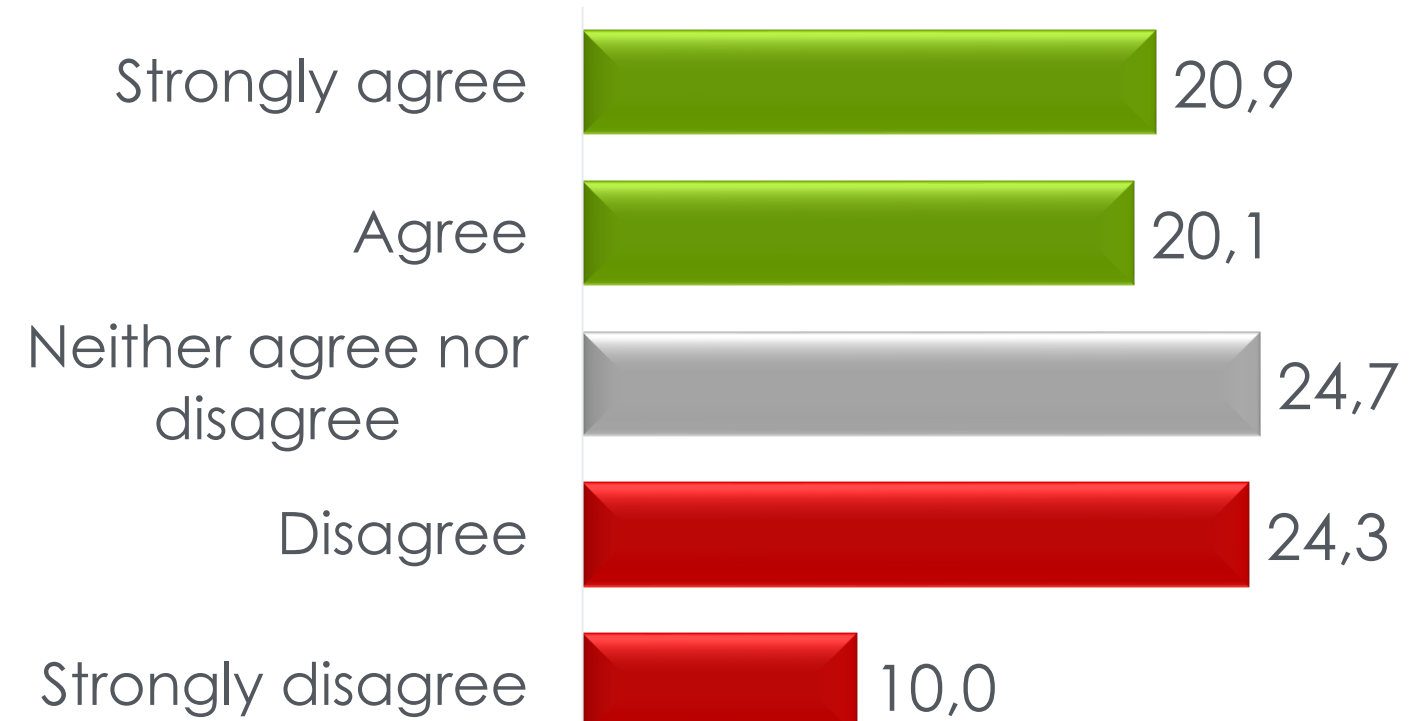
- To what extent do you agree that artificial intelligence should be accountable to the law?
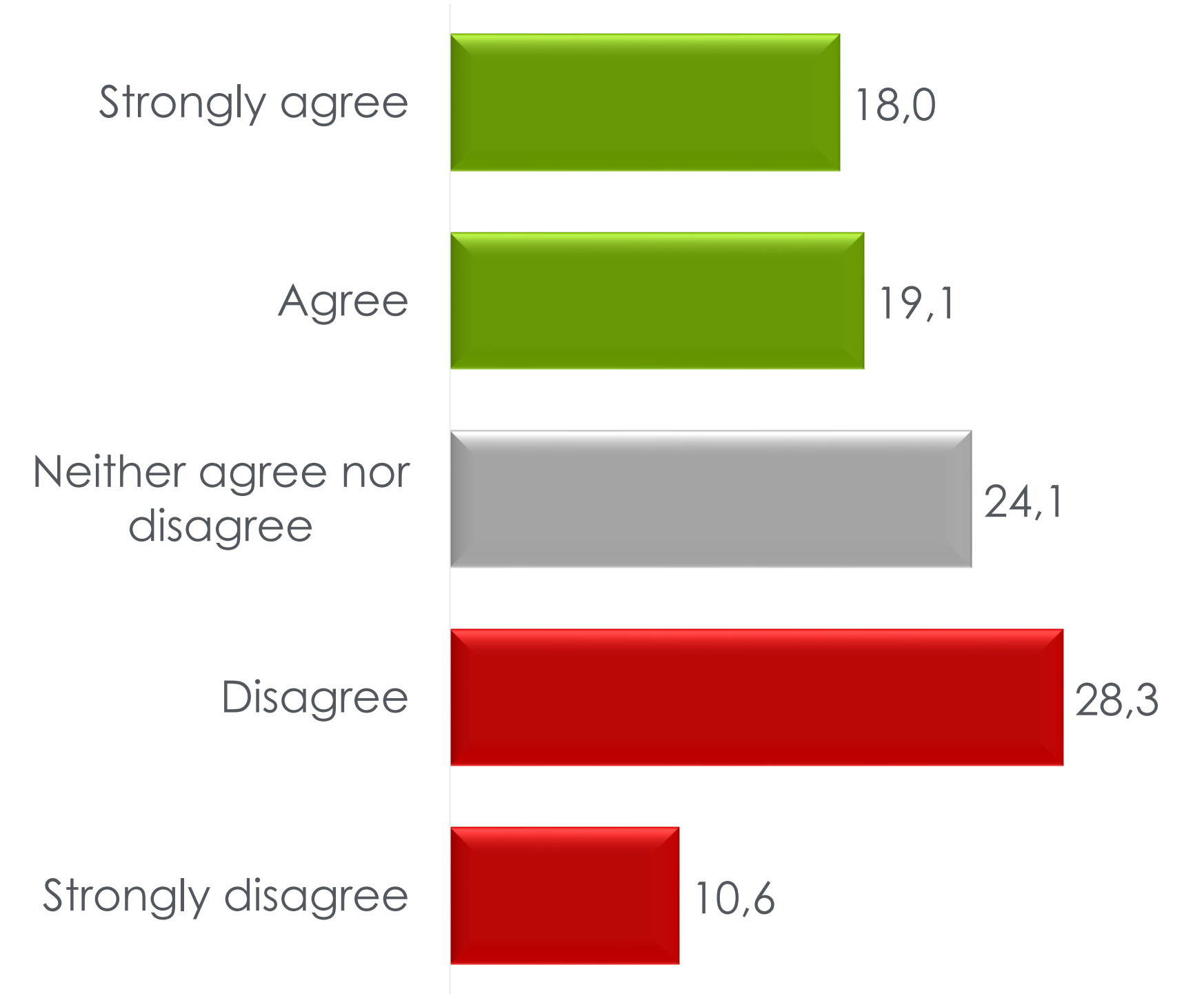- To what extent do you agree that artificial intelligence should be accountable to social values?

Those who associate AI with robots

Accountability of Artificial Intelligence to the Law (%)

Response	%
Strongly agree	20,9
Agree	20,1
Neither agree nor disagree	24,7
Disagree	24,3
Strongly disagree	10,0

Accountability of Artificial Intelligence to Social Values (%)

Response	%
Strongly agree	20,5
Agree	20,9
Neither agree nor disagree	22,2
Disagree	24,7
Strongly disagree	11,7

Base (Those who associate AI with robots)	239

Those who do not associate AI with robots

Accountability of Artificial Intelligence to the Law (%)

Response	%
Strongly agree	16,2
Agree	17,7
Neither agree nor disagree	25,2
Disagree	30,6
Strongly disagree	10,3

Accountability of Artificial Intelligence to Social Values (%)

Response	%
Strongly agree	13,4
Agree	19,4
Neither agree nor disagree	27,8
Disagree	28,1
Strongly disagree	11,3

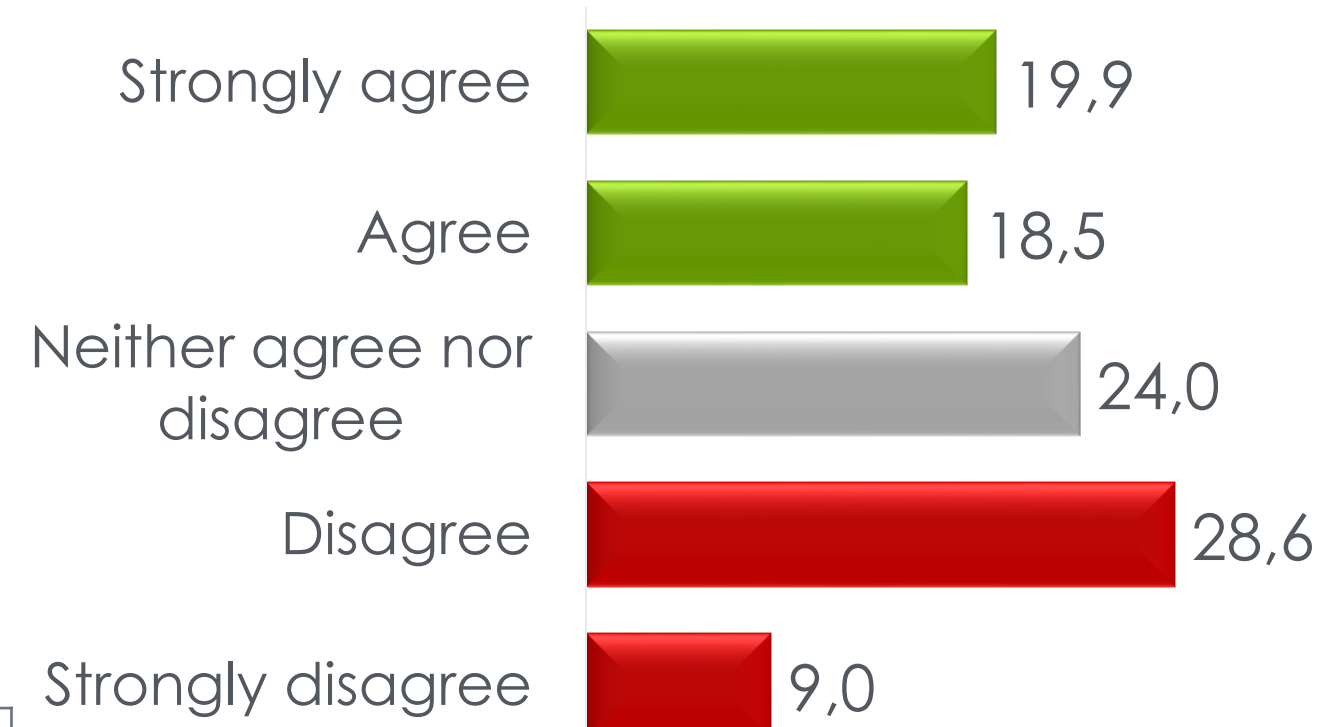| Base (Those who do not associate AI with robots)	896

Accountability of Artificial Intelligence to Laws and Values (%)
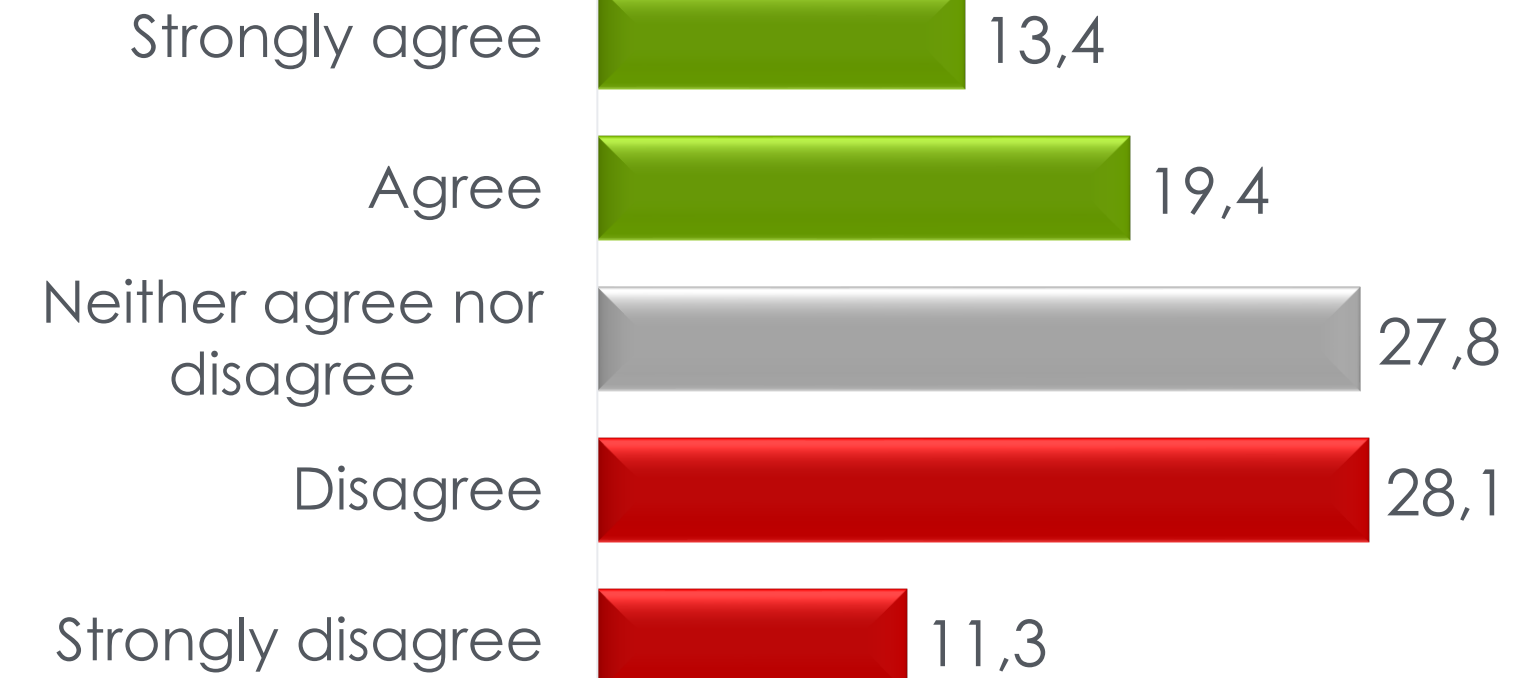
- To what extent do you agree that artificial intelligence should be accountable to the law?
- To what extent do you agree that artificial intelligence should be accountable to social values?

14-18 Age Group

Accountability of Artificial Intelligence to the Law (%)

Response	%
Strongly agree	7,0
Agree	18,3
Neither agree nor disagree	31,0
Disagree	31,0
Strongly disagree	12,7

Accountability of Artificial Intelligence to Social Values (%)

Response	%
Strongly agree	7,0
Agree	19,7
Neither agree nor disagree	29,6
Disagree	32,4
Strongly disagree	11,3

Base	71

43
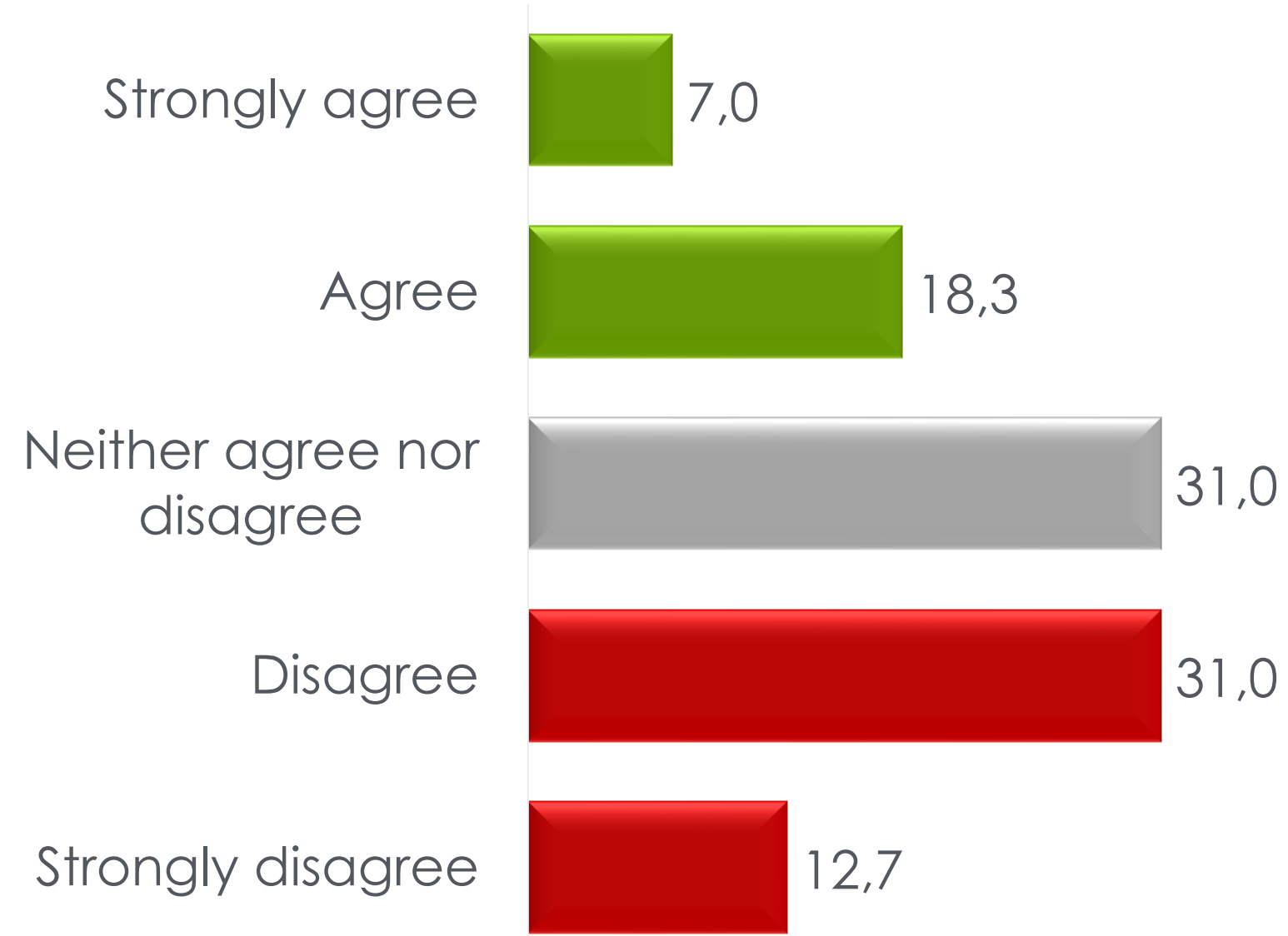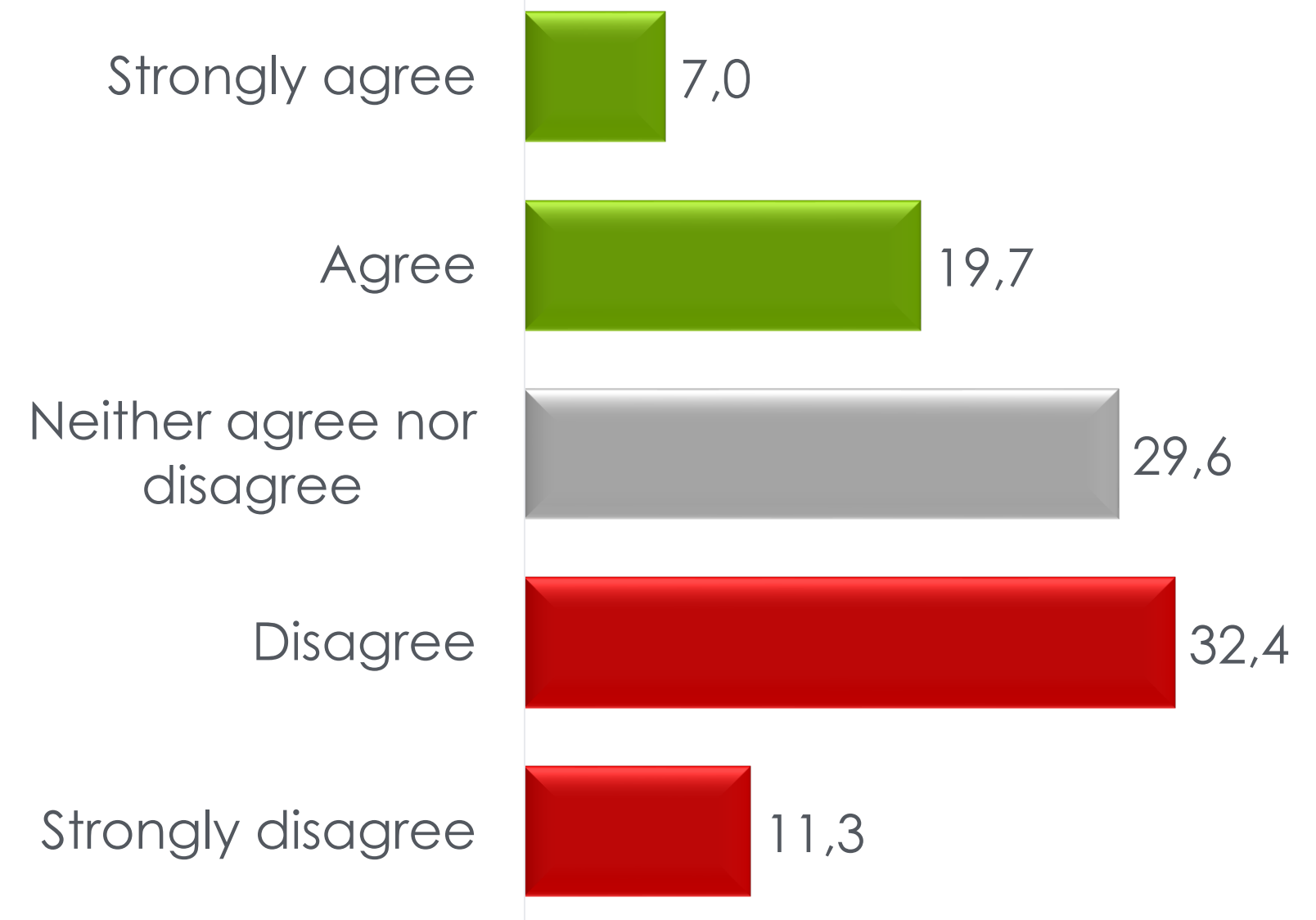
Additional Evaluation (%)

- UBER's artificial intelligent self-driving car killed a pedestrian while there was a human in the driver's seat. Who/what do you think is to blame?

55.8% of the interviewees find the person, who relies on artificial intelligence, to be guilty in the mentioned accident. Someone must still be in control.

A lightly alcoholic HUMAN who does not hold the steering wheel and watches a game show because she/he trusts artificial intelligence.	55,8
PEDESTRIAN in dark clothes trying to cross the highway with no pedestrian crossing and no light	33,7
ARTIFICIAL INTELLIGENCE, which did not activate the brake system, which has an actuation time of less than 5 seconds	32,7

Base	1135	Multiple choice

Anxiety Scale for Artificial Intelligence

#AIPAFR

Anxiety Scale for Artificial Intelligence (%)

General

Anxiety Scale for Artificial Intelligence (%)

Society

	Learning	Replacement at work	Social anxiety	AI configuration
Society	3,4	4,5	4,7	4,1

Students

	Learning	Replacement at work	Social anxiety	AI configuration
Students	2,8	4,3	4,5	3,6

Anxiety Scale for Artificial Intelligence (%)

Learning (%)

Statement	Absolutely	6	5	4	3	2	Never
Not keeping up with developments of Artificial Intelligence products worries me.	15,9	6,1	12,0	15,0	13,4	10,8	26,8
Reading the user manual of an Artificial Intelligence product worries me.	8,5	4,9	7,8	11,9	10,4	13,0	43,4
Receiving education for the development of Artificial Intelligence products worries me.	10,7	5,9	8,5	16,2	10,3	10,7	37,7
Interacting with an Artificial Intelligence product/object worries me.	13,0	6,6	9,3	14,7	12,1	13,3	31,0
Learning how an Artificial Intelligence product works (or what it does) worries me.	10,6	5,1	9,9	15,3	10,8	11,8	36,5
Learning about processes specific to an AI product worries me.	11,6	5,3	10,3	15,9	12,5	10,9	33,4
Learning how to use an Artificial Intelligence product worries me.	12,5	5,6	9,3	15,6	11,6	11,5	33,8
Understanding and knowing all features of an Artificial Intelligence product worries me.	11,8	5,1	12,3	17,2	14,1	9,2	30,3

Legend: ■ Absolutely ■ 6 ■ 5 ■ 4 ■ 3 ■ 2 ■ Never

Base	1135

Anxiety Scale for Artificial Intelligence (%)

Replacement at Work (%)

Statement	Absolutely	6	5	4	3	2	Never
I fear that Artificial Intelligence products will take away people's jobs.	31,5	10,7	11,1	15,7	11,1	7,8	12,2
I am afraid that if I start using Artificial Intelligence products, I will become dependent on them and lose my reasoning skills.	26,3	8,6	12,2	15,9	11,5	9,1	16,5
I fear that the widespread use of robots will take away people's jobs.	32,2	9,3	12,9	15,0	10,4	8,0	12,2
I fear that an Artificial Intelligence product replaces humans.	28,5	9,9	11,6	15,0	11,5	9,3	14,2
I'm afraid of being more lazy due to an artificial intelligence product.	30,7	8,5	13,1	13,4	11,8	8,5	13,9
I'm afraid of being dependent on an artificial intelligence product.	23,1	9,2	12,0	14,6	12,8	10,7	17,6

Legend: ■ Absolutely ■ 6 ■ 5 ■ 4 ■ 3 ■ 2 ■ Never

Base	1135

Anxiety Scale for Artificial Intelligence (%)

Social Anxiety (%)

Statement	Absolutely	6	5	4	3	2	Never
I fear that an AI product may lead to robot autonomy/robot domination.	22,4	8,8	11,3	19,9	13,1	9,2	15,3
I fear that an artificial intelligence product may get out of control or be misused.	32,7	11,8	12,1	16,6	10,0	7,4	9,5
I am afraid of various problems that may arise due to an Artificial Intelligence product.	28,4	11,5	15,3	16,3	10,4	6,3	11,8
I am afraid of the misusage of artificial intelligence products.	33,6	11,1	14,2	15,0	9,5	6,5	10,1

Legend: ■ Absolutely ■ 6 ■ 5 ■ 4 ■ 3 ■ 2 ■ Never

Base	1135

Anxiety Scale for Artificial Intelligence (%)

Artificial Intelligence Configuration (%)

Statement	Absolutely	6	5	4	3	2	Never
I don't know why, but humanoid artificial intelligence products (like humanoid robots) scare me.	20,9	8,5	11,1	16,6	12,9	9,9	20,3
I find humanoid artificial intelligence products (for example, humanoid robots) threatening.	18,9	8,4	12,4	18,1	13,8	10,1	18,3
I find humanoid artificial intelligence products (for example, humanoid robots) creepy.	19,9	10,0	11,4	17,5	12,9	8,6	18,7

Legend: ■ Absolutely ■ 6 ■ 5 ■ 4 ■ 3 ■ 2 ■ Never

Base	1135

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Learning	Between Groups	53,395	3	17,798	7,467	,000
	Within Groups	1897,414	796	2,384		
	Total	1950,808	799			
Replacement at work	Between Groups	76,389	3	25,463	8,942	,000
	Within Groups	2266,740	796	2,848		
	Total	2343,129	799			
Social anxiety	Between Groups	50,104	3	16,701	6,089	,000
	Within Groups	2183,232	796	2,743		
	Total	2233,336	799			
AI Configuration	Between Groups	85,390	3	28,463	8,589	,000
	Within Groups	2637,725	796	3,314		
	Total	2723,115	799			

Multiple Comparisons

Tukey HSD

Dependent Variable			Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
Learning	35-44	14-18	,82658*	,31061	,040	,0269	1,6262
		19-24	,52174*	,13741	,001	,1680	,8755
		25-34	,49268*	,13189	,001	,1531	,8322
Replacement at work	35-44	19-24	,60358*	,15019	,000	,2169	,9902
		25-34	,68162*	,14415	,000	,3105	1,0527
Social anxiety	35-44	19-24	,45433*	,14739	,011	,0749	,8338
		25-34	,56921*	,14147	,000	,2050	,9334
AI configuration	35-44	19-24	,62402*	,16201	,001	,2069	1,0411
		25-34	,72767*	,15550	,000	,3273	1,1280

*. The mean difference is significant at the 0.05 level.

- According to the results of the Anova test, there is a statistically significant difference in terms of age groups at the 99% confidence level. (p<0.05)

- Since variances were homogeneously distributed, Tukey analysis among Post Hoc Tests was applied to determine the age groups from which these differences we detected through Anova test originate.

- It observed that the 35-44 age group is the age group with highest concerns about issues of learning artificial intelligence, being replaced at work, social anxiety and AI configuration.

Base	1135

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Learning	Between Groups	25,097	3	8,366	3,458	,016
	Within Groups	1925,711	796	2,419		
	Total	1950,808	799			
Replacement at work	Between Groups	67,502	3	22,501	7,871	,000
	Within Groups	2275,627	796	2,859		
	Total	2343,129	799			
Social anxiety	Between Groups	71,103	3	23,701	8,725	,000
	Within Groups	2162,233	796	2,716		
	Total	2233,336	799			
AI Configuration	Between Groups	73,653	3	24,551	7,376	,000
	Within Groups	2649,462	796	3,328		
	Total	2723,115	799			

- According to the results of the Anova test, there is a statistically significant difference in terms of socio-economic statuses at the 99% confidence level. ($p < 0.05$)

- Since variances were homogeneously distributed, Tukey analysis among Post Hoc Tests was applied to determine the SES groups from which these differences we detected through Anova test originate.

Multiple Comparisons

Tukey HSD							
Dependent Variable			Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
Learning	AB	DE	-,46642*	,15381	,013	-,8624	-,0704
Replacement at work	AB	C2	-,64150*	,17329	,001	-1,0876	-,1954
		DE	-,75547*	,16721	,000	-1,1859	-,3250
Social anxiety	AB	C1	-,50716*	,16506	,012	-,9321	-,0822
		C2	-,68731*	,16892	,000	-1,1222	-,2524
		DE	-,77132*	,16299	,000	-1,1909	-,3517
AI configuration	C2	AB	,54801*	,18699	,018	,0666	1,0294
	DE	AB	,83804*	,18042	,000	,3736	1,3025
*. The mean difference is significant at the 0.05 level.							

- Considering learning, it is observed that people belonging to DE SES group are more anxious than those belonging to AB SES group.
- Considering replacement at work, people belonging to C2 and DE SES groups are more anxious than those belonging to AB SES group.
- Considering social anxiety, people belonging to AB SES group are less anxious than those belonging to C1, C2 and DE SES groups.

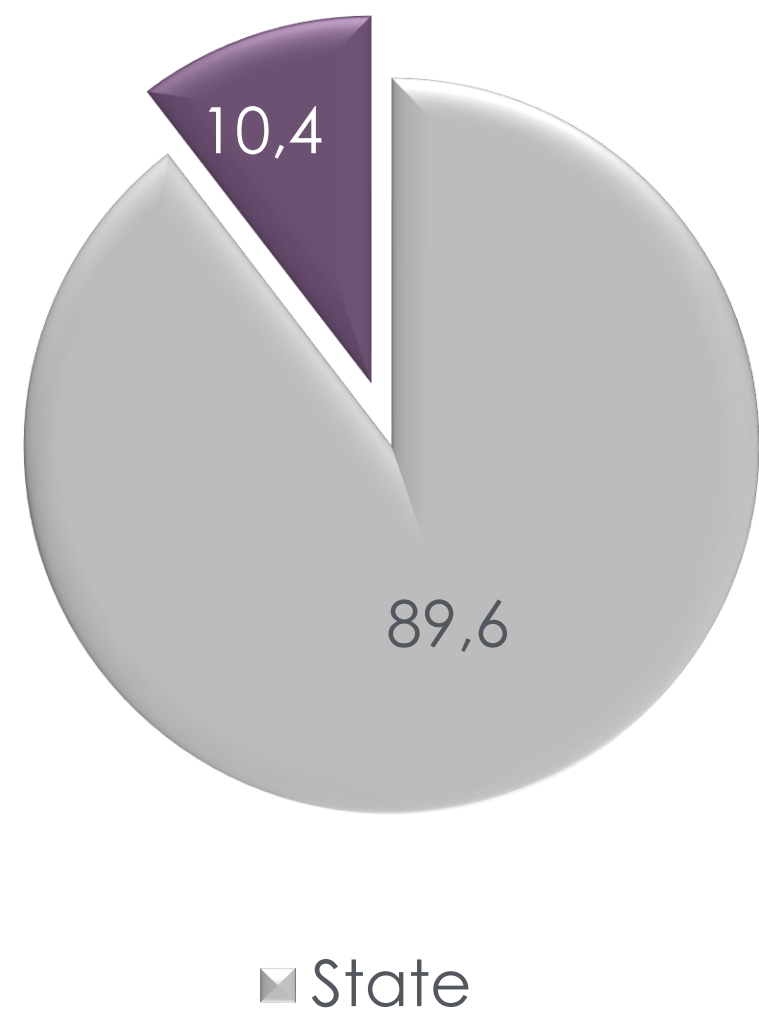| Base	1135

Information on Students

#AIPAFR

Information on Students (%)

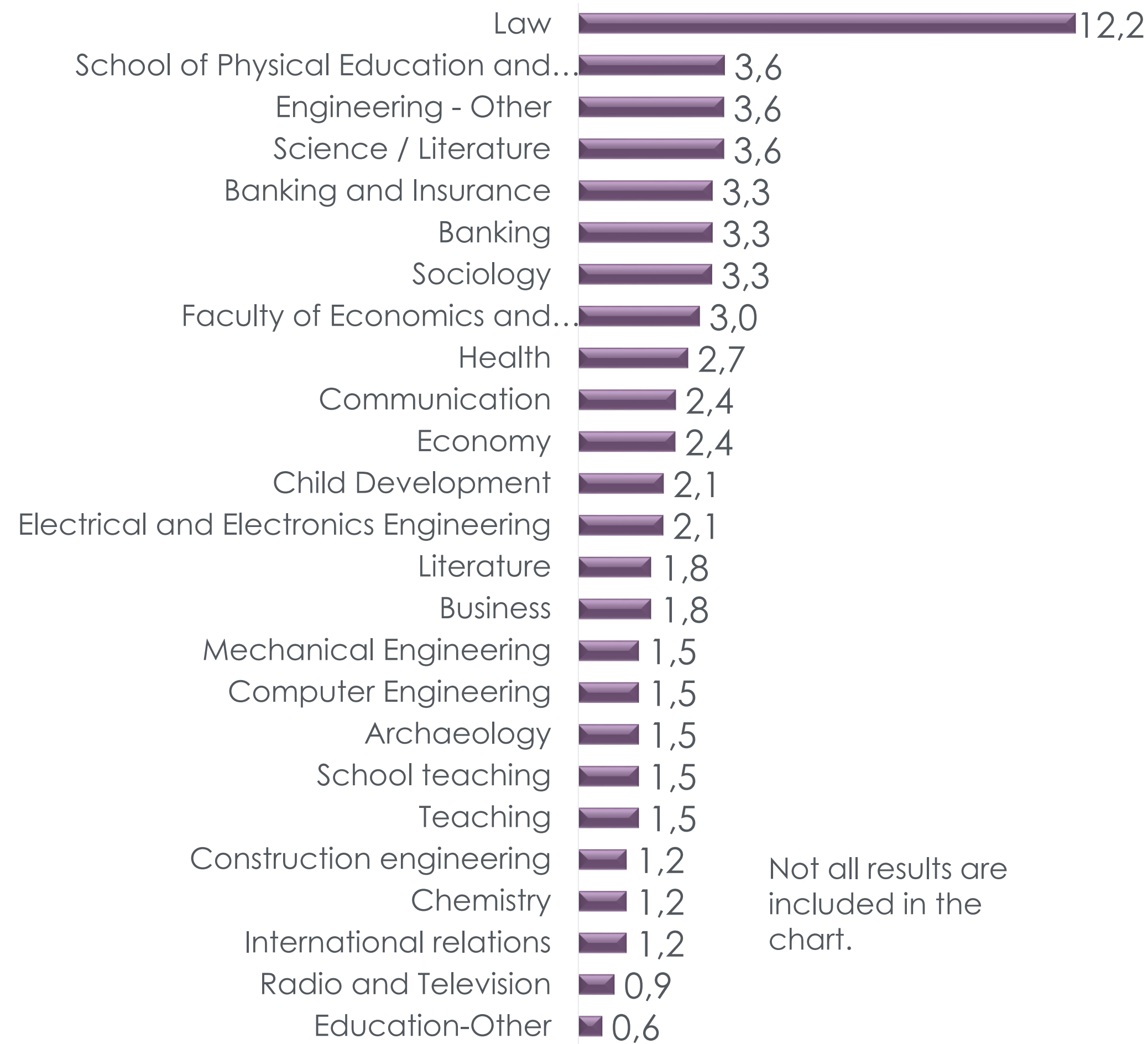- What type of university do you study at?
- Which faculty are you studying in?

89.6% of the students are studying at state university and 12.2% of them are law students.
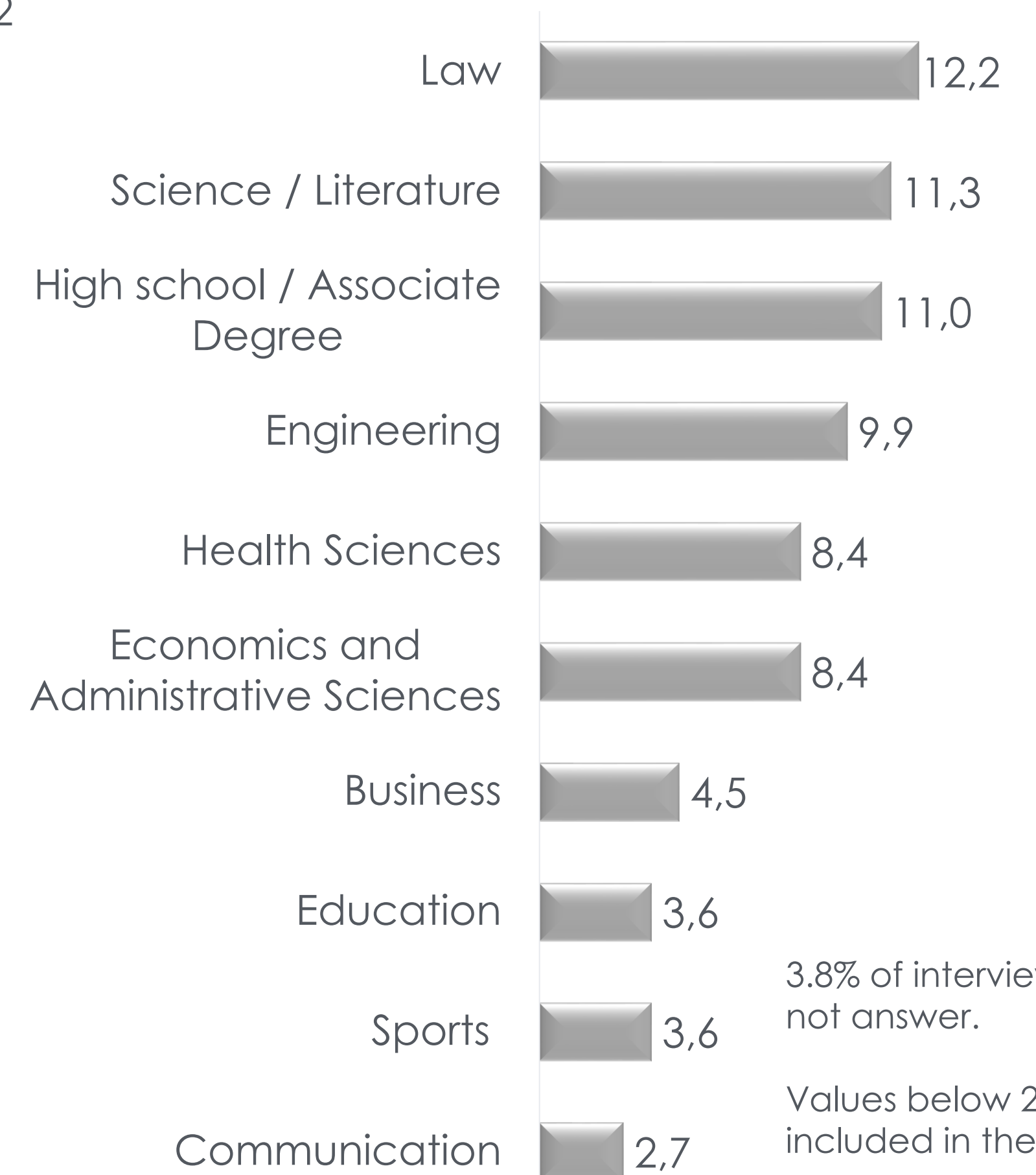
Type of the University (%)

State

Base (Students)	335

- 10,4
- 89,6

Department (%)

Department	%
Law	12,2
School of Physical Education and…	3,6
Engineering - Other	3,6
Science / Literature	3,6
Banking and Insurance	3,3
Banking	3,3
Sociology	3,3
Faculty of Economics and…	3,0
Health	2,7
Communication	2,4
Economy	2,4
Child Development	2,1
Electrical and Electronics Engineering	2,1
Literature	1,8
Business	1,8
Mechanical Engineering	1,5
Computer Engineering	1,5
Archaeology	1,5
School teaching	1,5
Teaching	1,5
Construction engineering	1,2
Chemistry	1,2
International relations	1,2
Radio and Television	0,9
Education-Other	0,6

Not all results are included in the chart.

Faculty (%)

Faculty	%
Law	12,2
Science / Literature	11,3
High school / Associate Degree	11,0
Engineering	9,9
Health Sciences	8,4
Economics and Administrative Sciences	8,4
Business	4,5
Education	3,6
Sports	3,6
Communication	2,7

3.8% of interviewees did not answer.

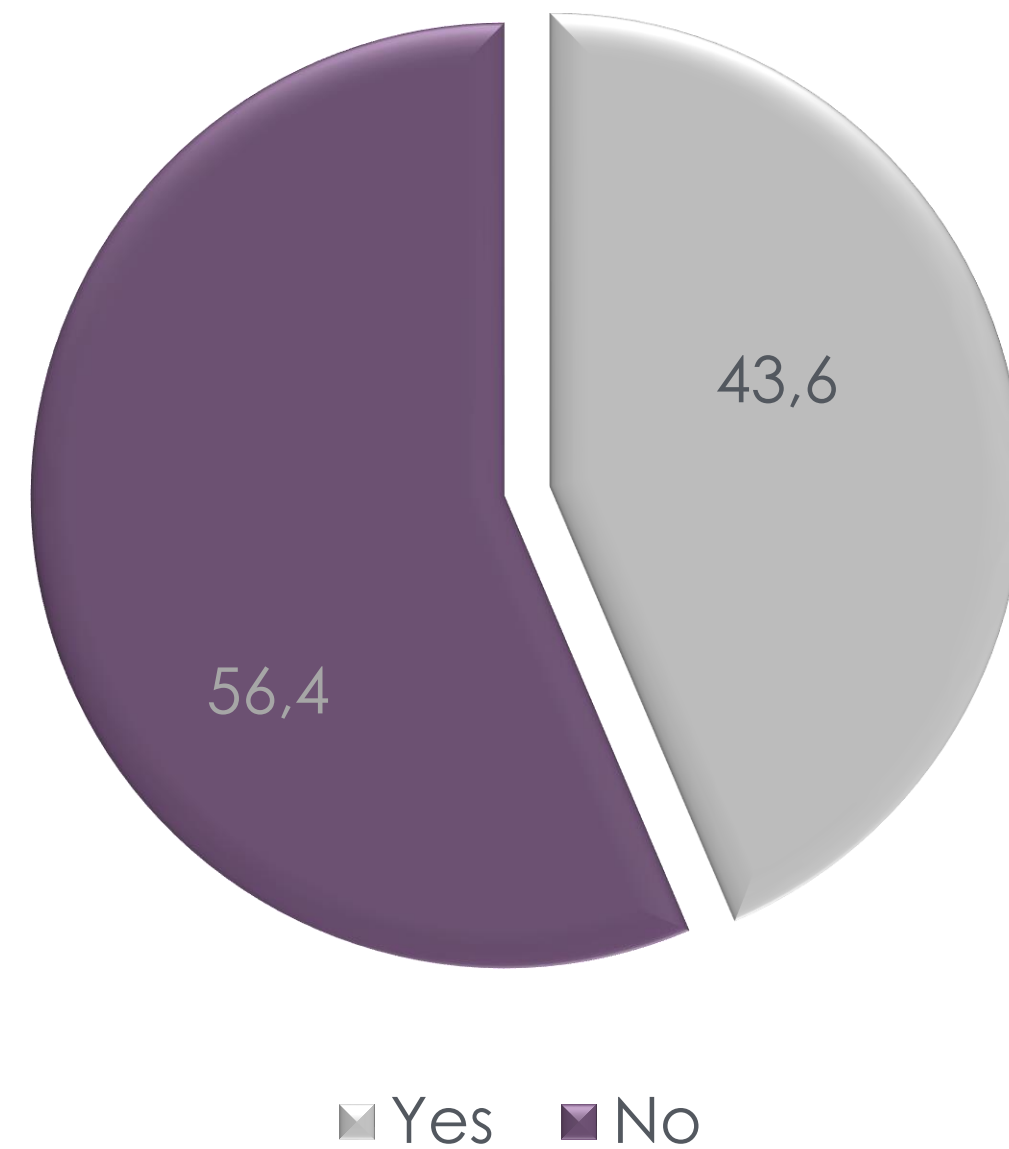Values below 2.7% are not included in the chart.

55

Impact of Artificial Intelligence on Students' Future Professions (%)

- Do you believe that the artificial intelligence will affect your future profession?
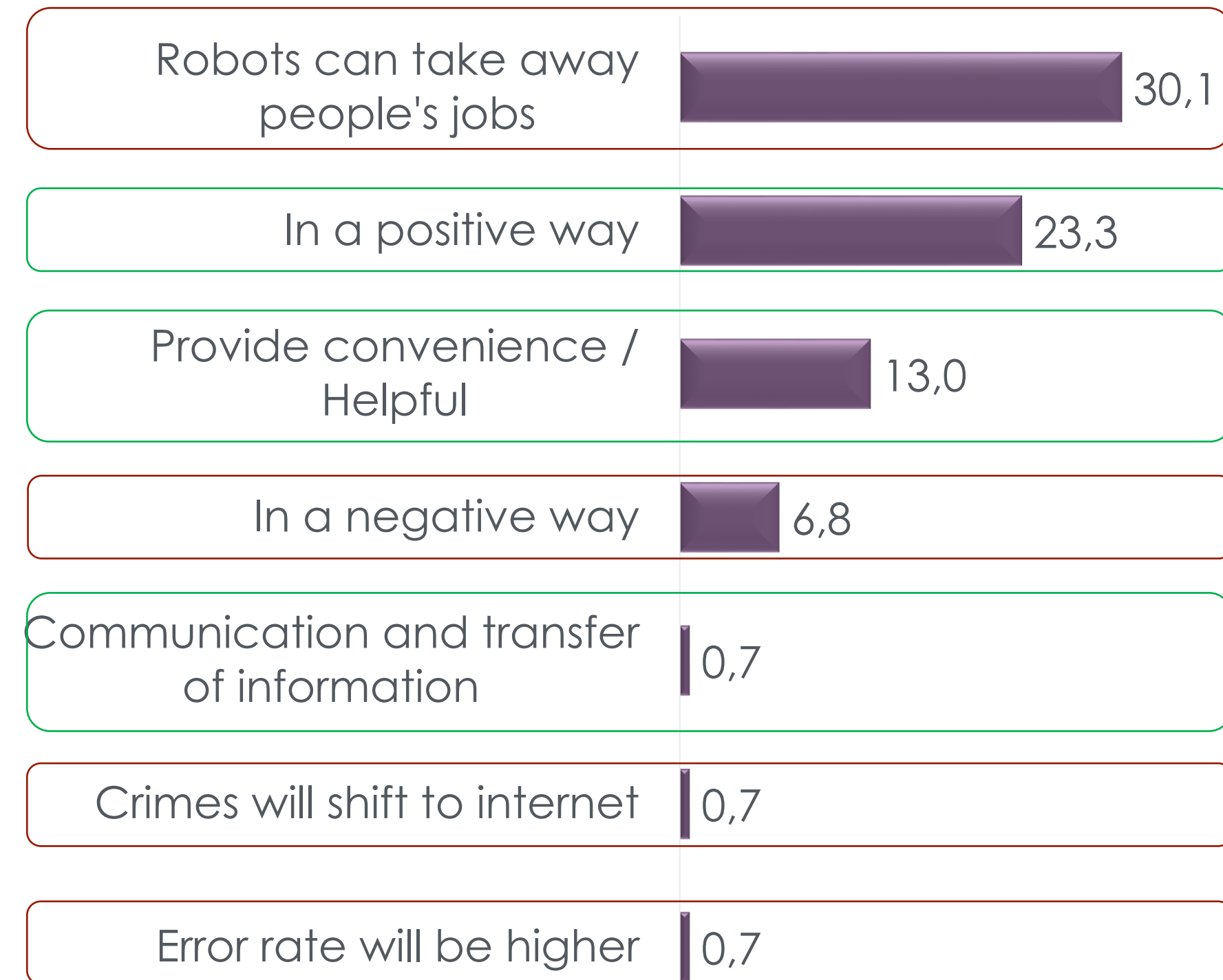- How will artificial intelligence affect your future profession?

43.6% of the students think that artificial intelligence will affect their profession in the future since robots will take away their jobs.

Belief That Artificial Intelligence Will Affect Professions (%)

43,6

56,4

■ Yes   ■ No

Base (Students)	335

Impact of Artificial Intelligence on Professions (%)

Robots can take away people's jobs	30,1
In a positive way	23,3
Provide convenience / Helpful	13,0
In a negative way	6,8
Communication and transfer of information	0,7
Crimes will shift to internet	0,7
Error rate will be higher	0,7

Negative effect
Positive effect

15.1% of the interviewees had no opinion, 0.7% did not answer. Not all results are included in the chart.

| Base (Those who think that AI will affect their profession)	146

Having a Training Related to AI and Trainings Received (%)

- Did you/do you receive any training on artificial intelligence?
- What training did/do you receive?

95.8% of the students stated that they did not receive any training on artificial intelligence.

Having a Training Related to Artificial Intelligence (%)

4,2

95,8

Yes No
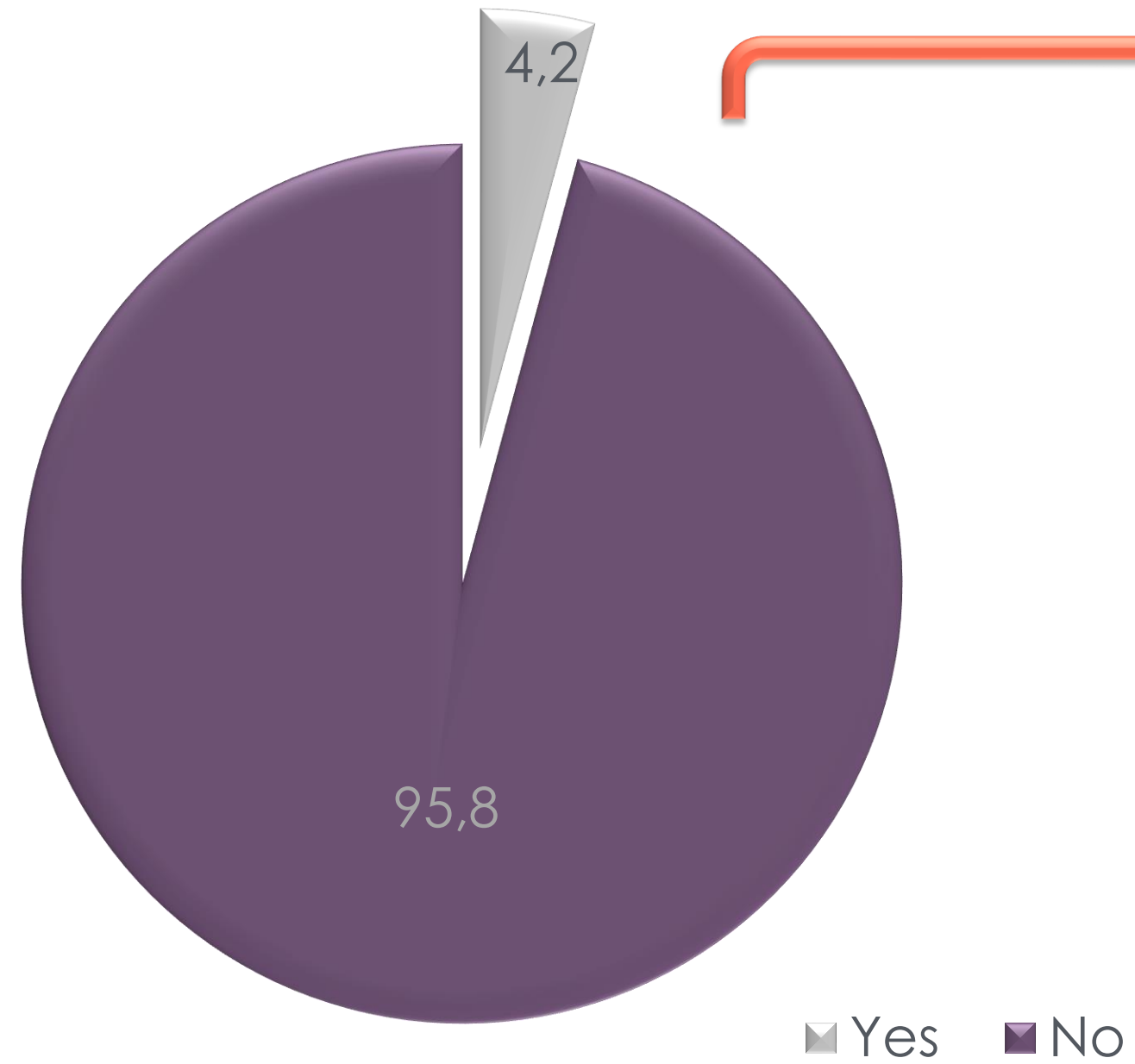
Trainings Received on Artificial Intelligence (%)

Trainings	(n)
Programming / Software / Coding / Robotic coding	3
Artificial Intelligence	3
Automation	2
Health	1
Machine learning technique	1
AutoCAD	1
Cyber security	1
Base (Trainees on artificial intelligence)	**13**

2 of the interviewees did not respond.

Base (Students)	335

$$Arf(q) = \sum_{i=1}^{n} q(a_i)\, q(b_i) \in \mathbb{Z}_2$$

$$a_i\,,\, b_i \qquad i = 1,\, 2,\, 3,\, \ldots,\, n.$$

Ord. Prof. Dr. Cahit Arf
Atatürk University
1958-1959 Academic Year Public Conferences
Can a machine think and how can it think?

www.kuantumarastirma.com