Luxembourg National Research Fund

Quest

national survey results

the perception and value of science and research

April 28th 2023

context of the survey

- The « FNR », implements barometric surveys on the **perception and the value attributed to scientific research** by the general public.
- The objective of the survey is **to monitor over time the evolution** of the perception and the value attributed toy science and research

- While the questionnaire has slightly evolved over time; some fundamental questions and surveyed attributes stayed unchanged.
- In this report we will show evolutions throughout several editions of the survey.
- The collection of data is done through a **combination of 2 methods**
  - the cawi method (computer aided web interviews through our panel Question.lu) (n=506)
  - the capi method (computer aided public interviews conducted in the public space) (n=94)

- In total we interviewed a sample of **600 respondents representative of the population.**
- The sample is representative based upon gender quotas, four age quotas and two nationality quotas.
- For your reading comfort we do not show decimals.
- The sum of the graphical totals will not always be exactly 100%

- Most of the variations measured are small, we indicate confidence intervals in the main graphs.
- For the distribution of ordinal scores, we indicate **asymmetric confidence intervals** according to the method of the Wilson score[1]
- For averages we determine symmetric confidence intervals using the error margin [2].

Total	600	100%
gender		
male	301	50%
female	299	50%
age		
15-29 years	133	22%
30-44 years	169	28%
45-59 years	151	25%
60 years or more	147	25%
nationality segments		
Luxembourg nationality	315	53%
Other nationality	285	48%
education level		
primary education +3 years	43	7%
technical / secondary education	201	34%
post-secondary / university education	335	56%
refusal	21	4%
professional segments		
self-employed	46	8%
public-sector employee	160	27%
private sector employee	180	30%
without paid occupation	143	24%
student	52	9%
refusal	19	3%

1. $(Lw, Uw) = (\frac{p_1 - p_2}{p_3}, \frac{p_1 + p_2}{p_3})$

   Where: $p_1 = p + \frac{z^2}{2n}$; $p_2 = z^2 \sqrt{\frac{1}{n} * (p(1-p) + \frac{1}{4n} * z^2)}$; $p_3 = 1 + \frac{z^2}{n}$

   And: p = sample proportion, z = 97,5% th percentile of the standard z distribution; n=sample size

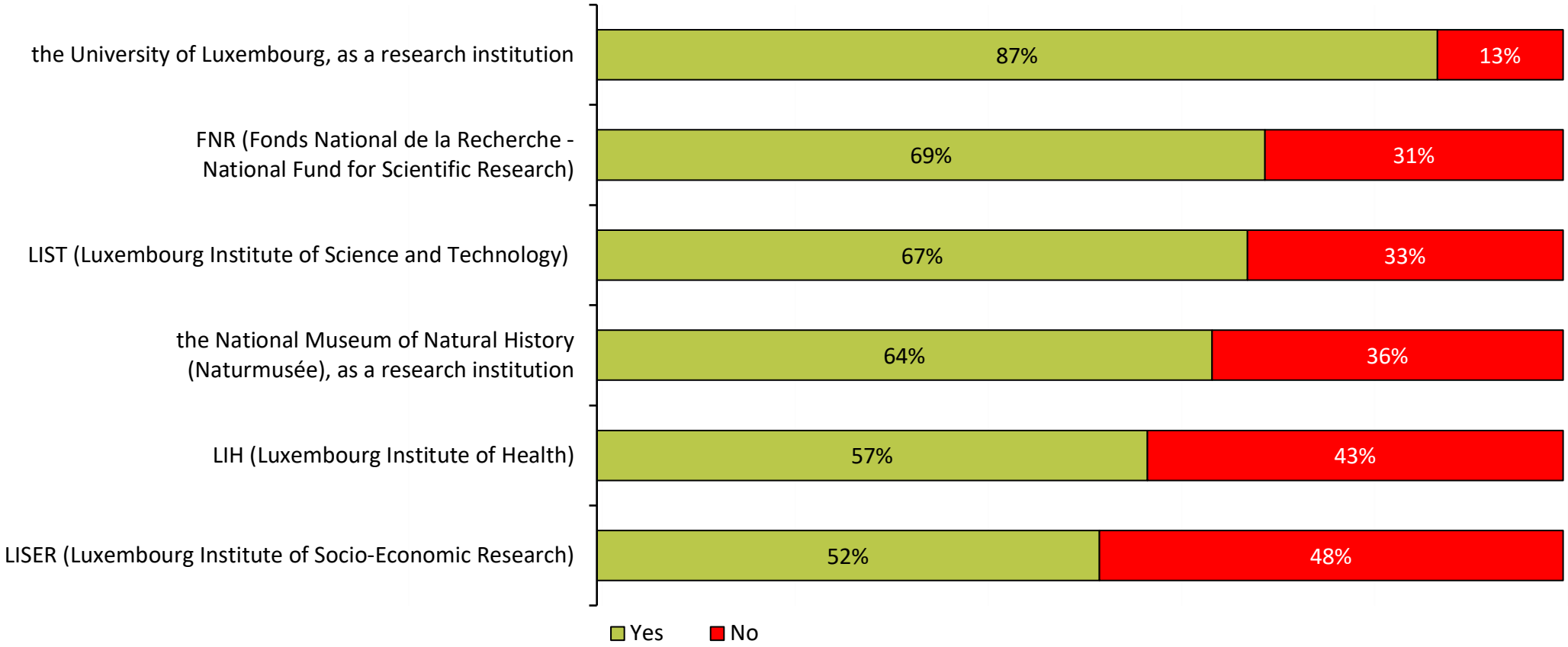
2. $(L, U) = point\ estimate \pm ME = sample\ mean \pm ME$

   Where: $ME = t_{0.975,(n-1)} \frac{s}{\sqrt{n}}$

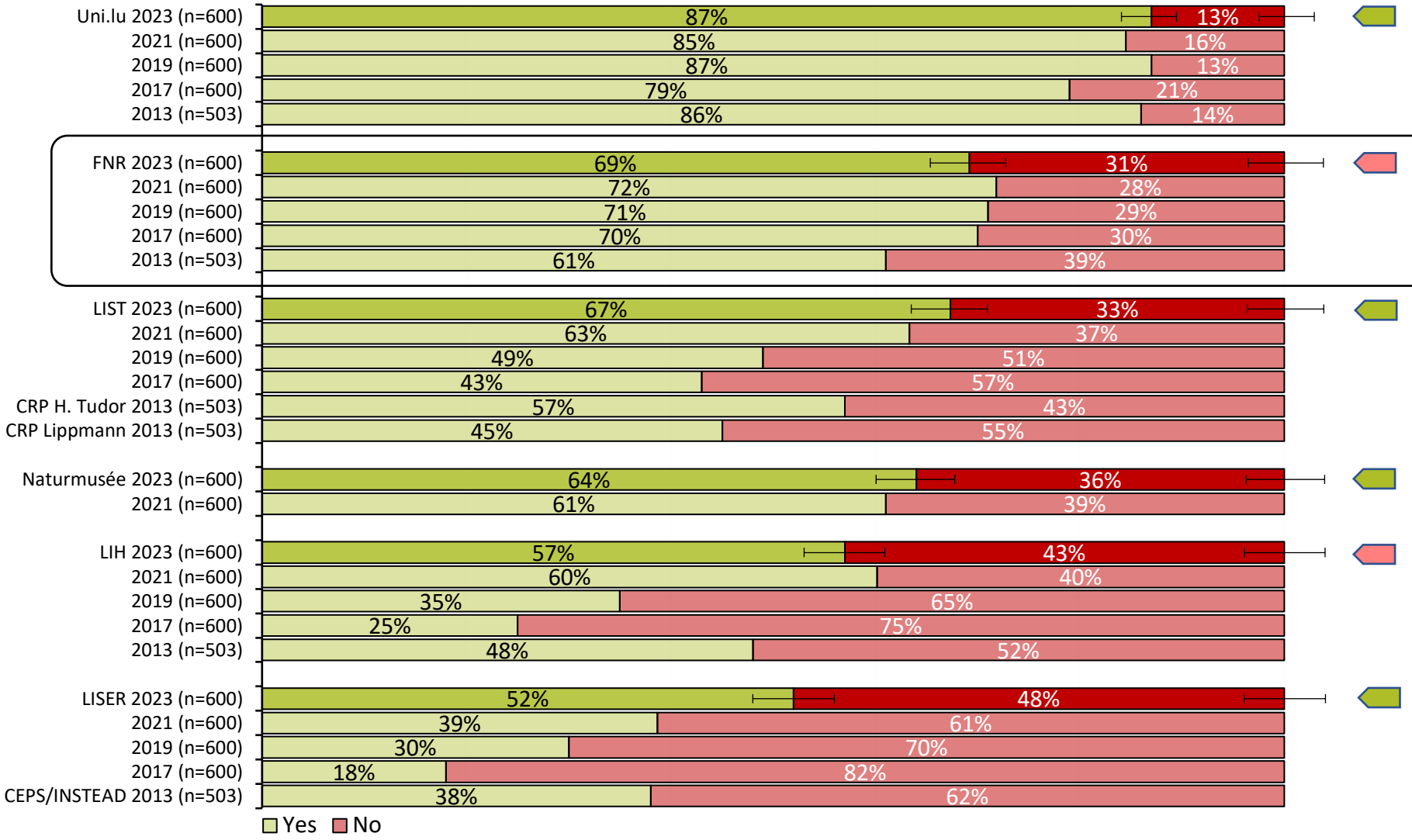
   And: $t_{0.975,(n-1)}$ =97,5% th percentile of the t distribution with (n-1) degrees of freedom; s=standard deviation of the sample; n=sample size

a.) notoriety indicator

a.1.) notoriety of institutions

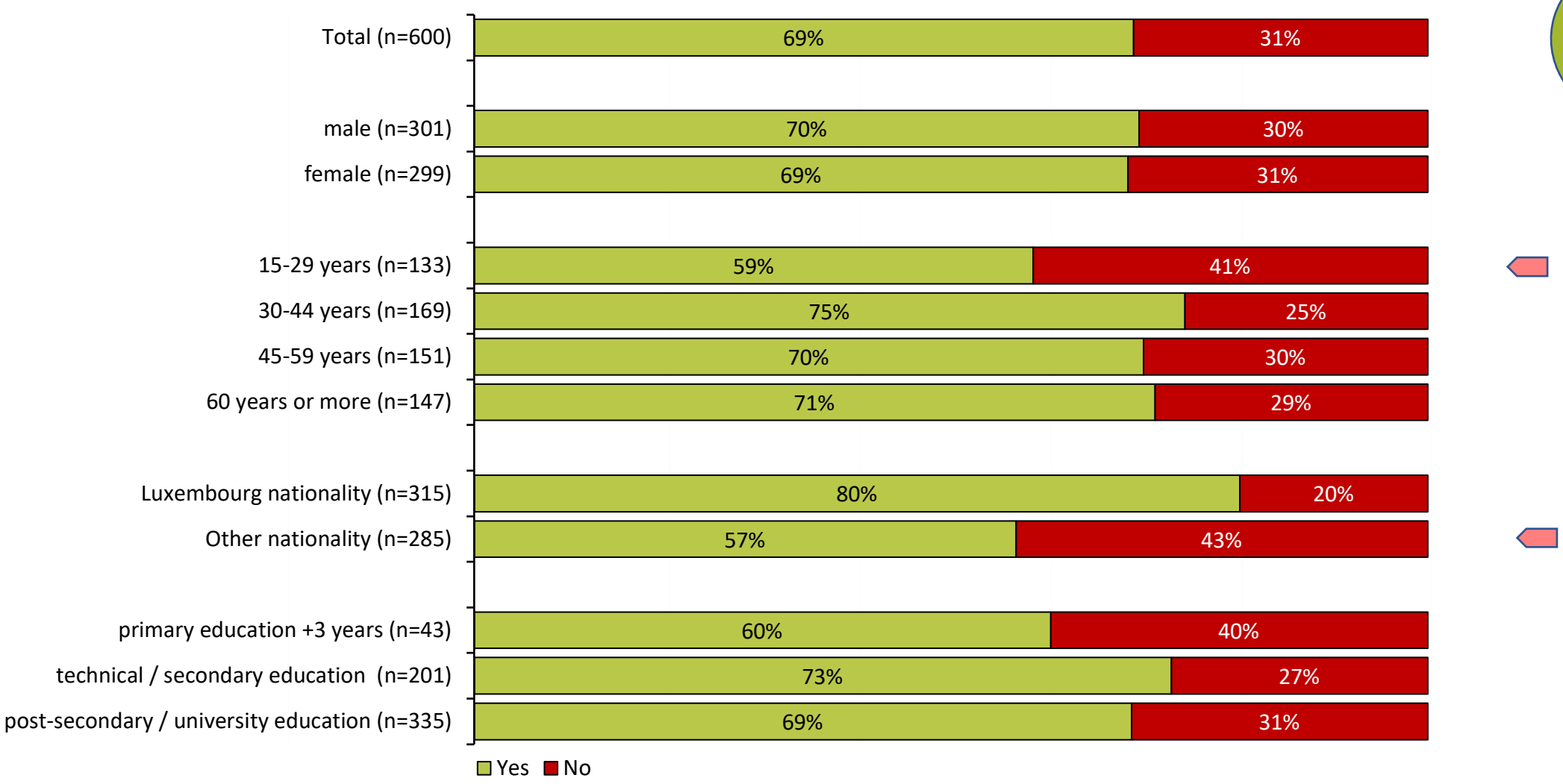


Q.101 Do you know, have you read about or heard about ...? (n=600)



Q.101 Do you know, have you read about or heard about ...?

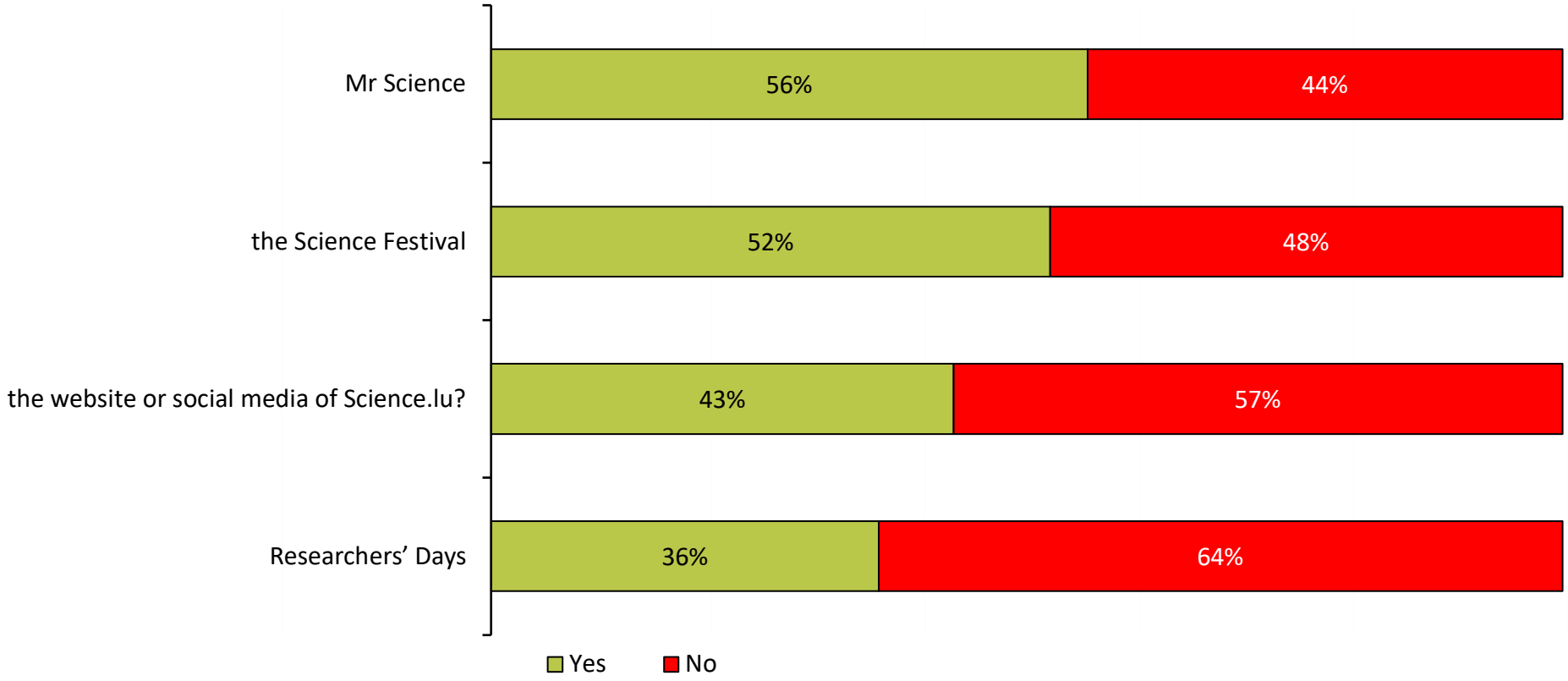
focus on FNR



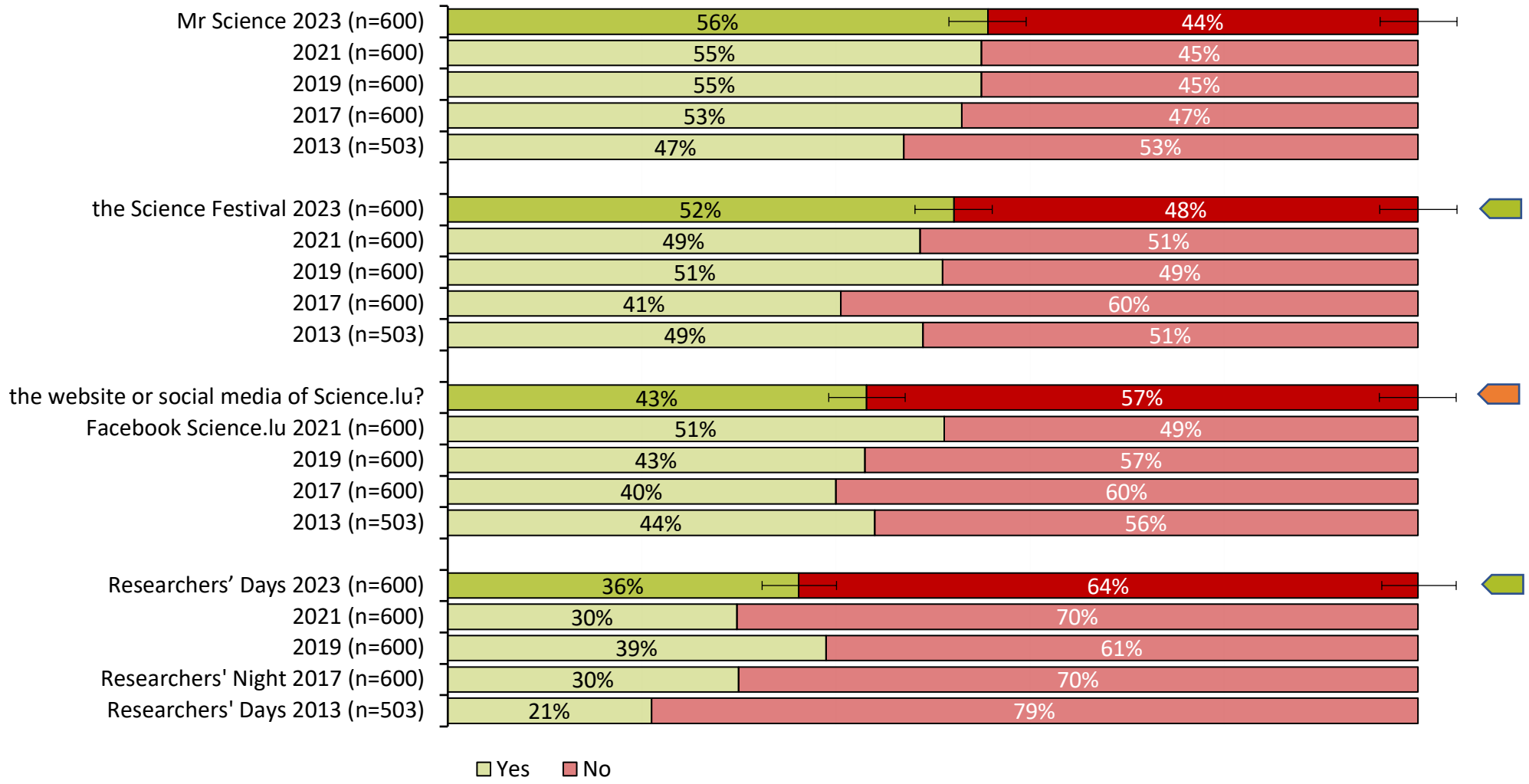
Q.101 Do you know, have you read about or heard about ...?

a.) notoriety indicator

a.2.) awareness-raising initiatives & events

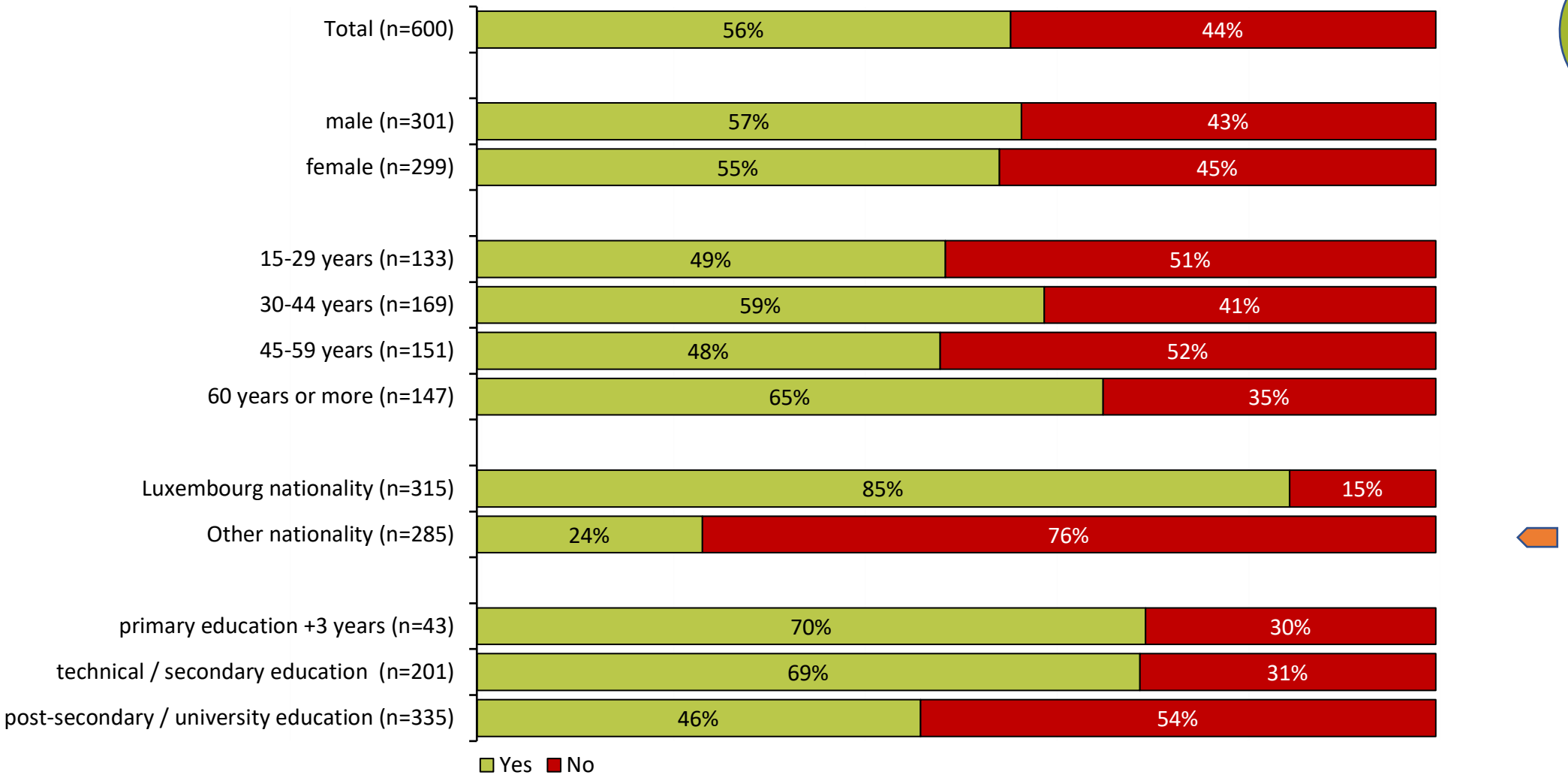


Q.101 Do you know, have you read about or heard about ...? (n=600)



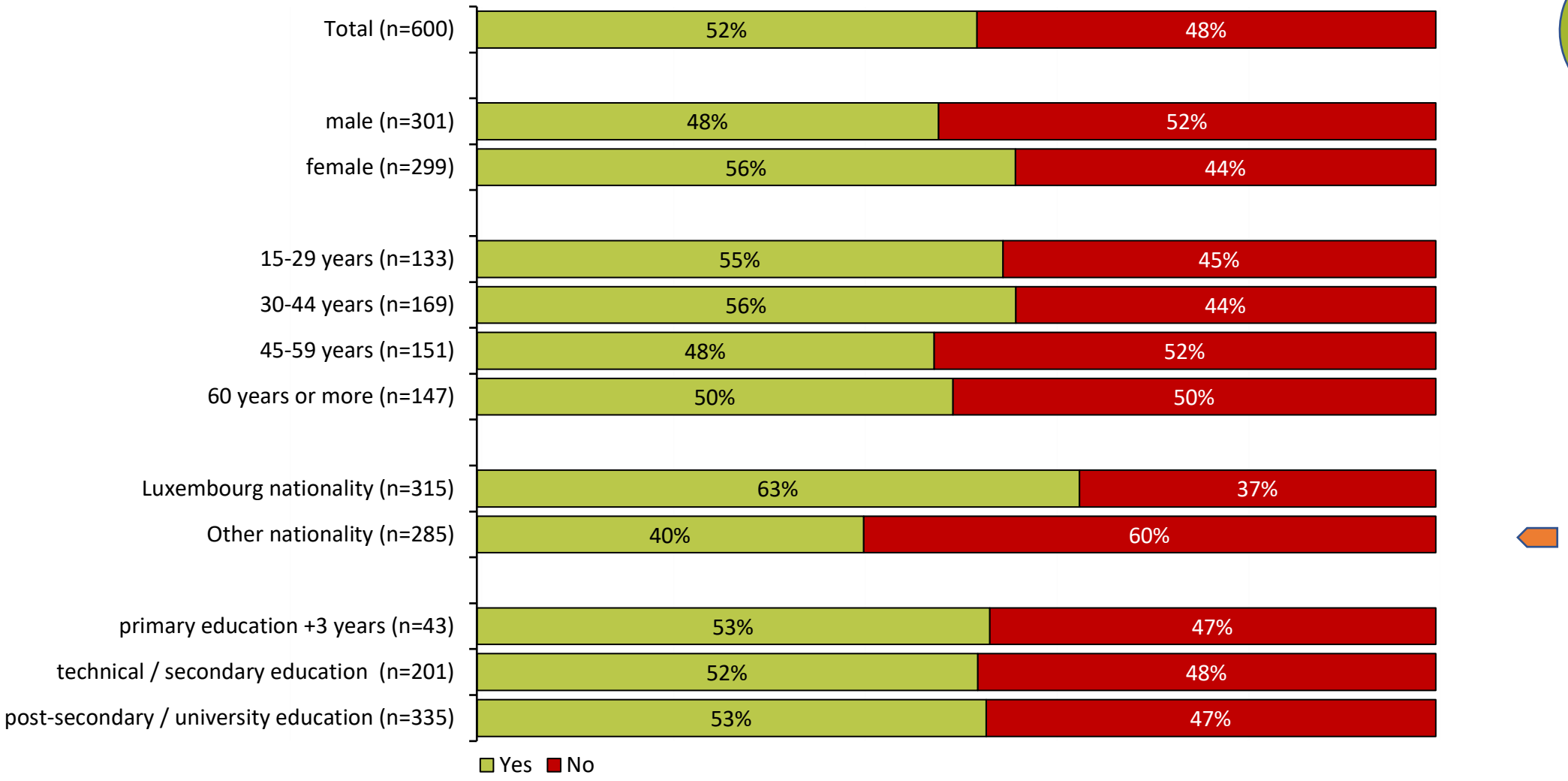
Q.101 Do you know, have you read about or heard about ...?

focus on Mr Science



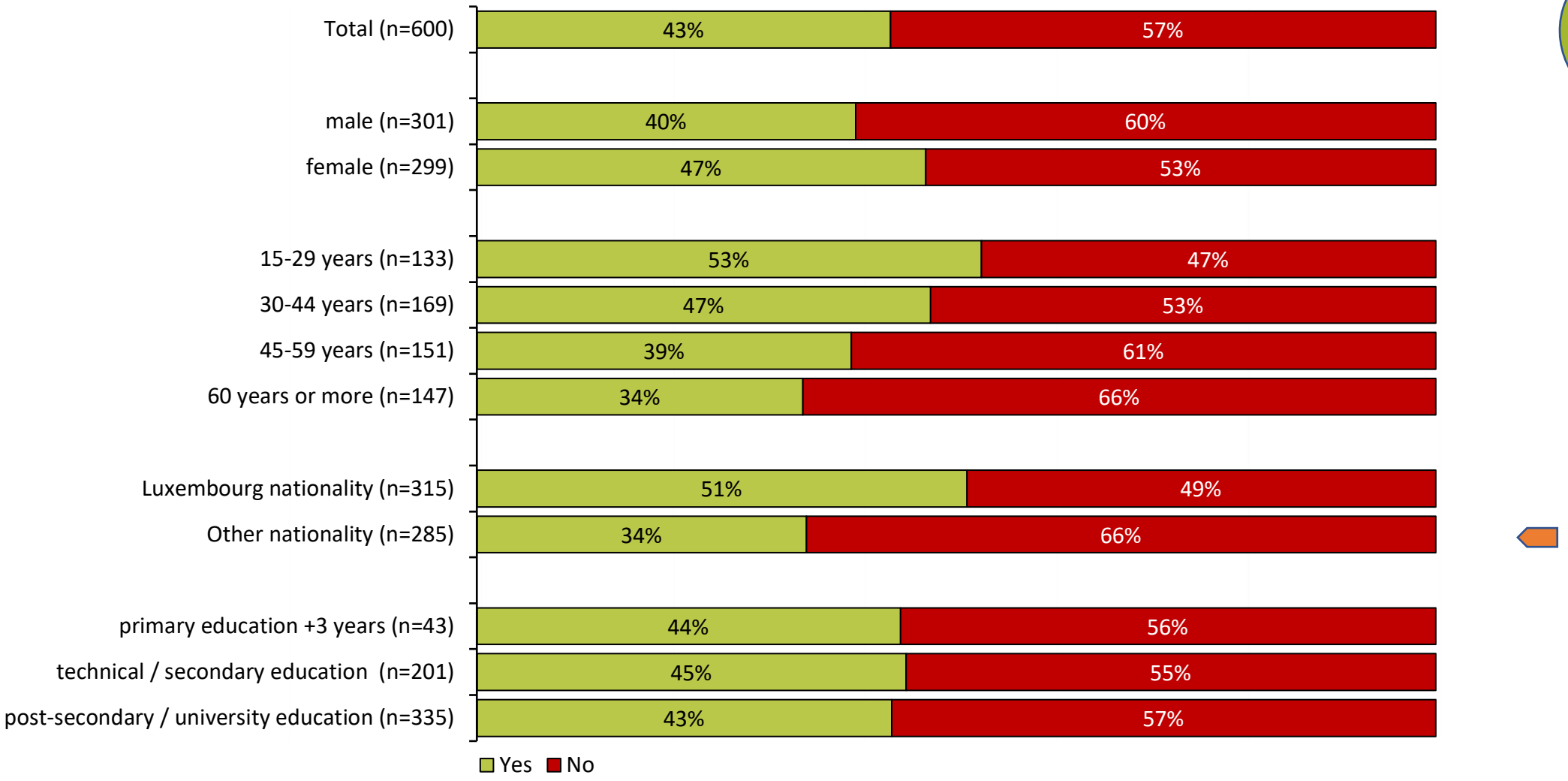
Q.101 Do you know, have you read about or heard about ...? **Mister Science**

focus on Science Festival



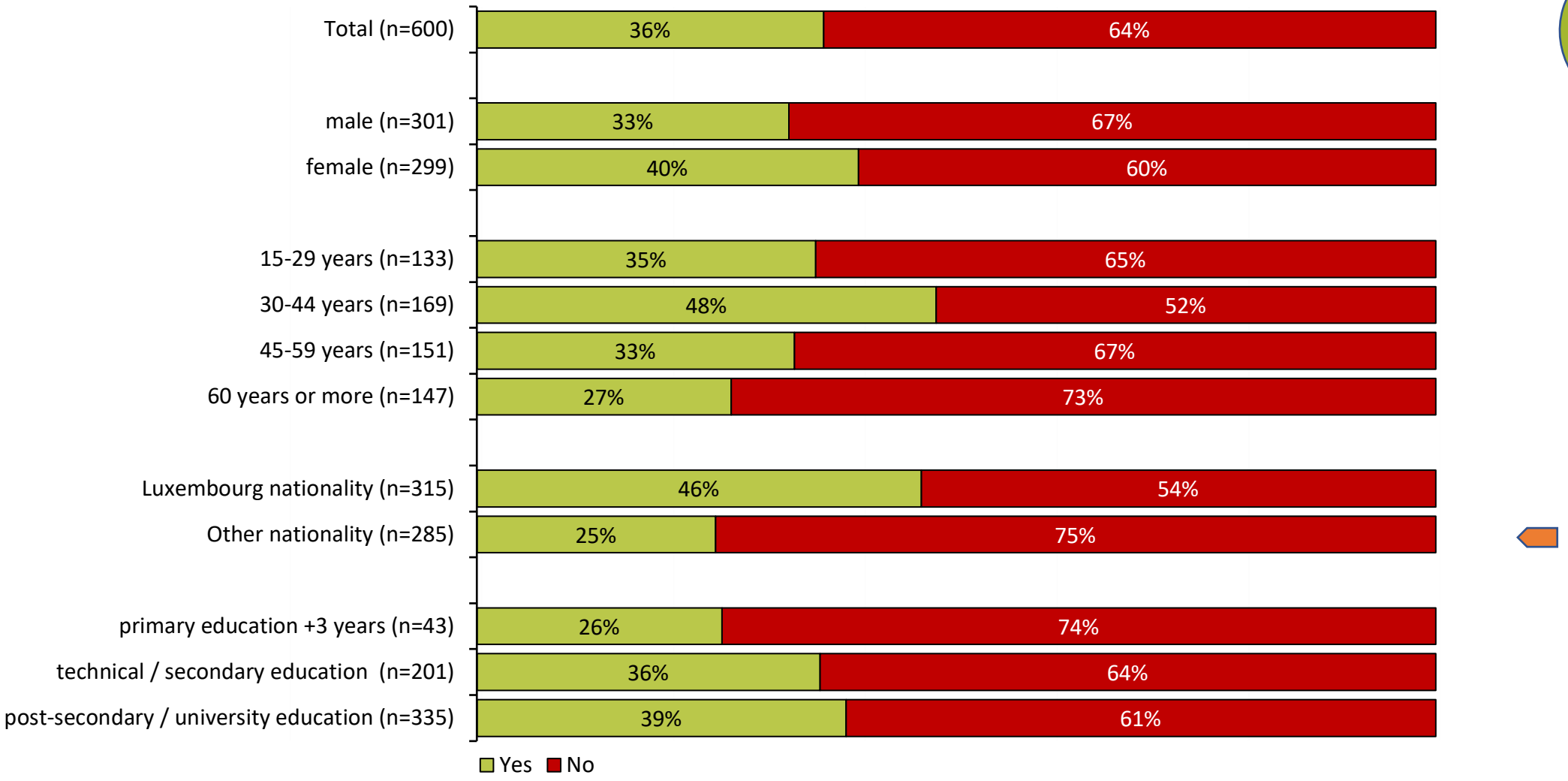
Q.101 Do you know, have you read about or heard about ...? **the Science Festival**

focus on Facebook Science.lu



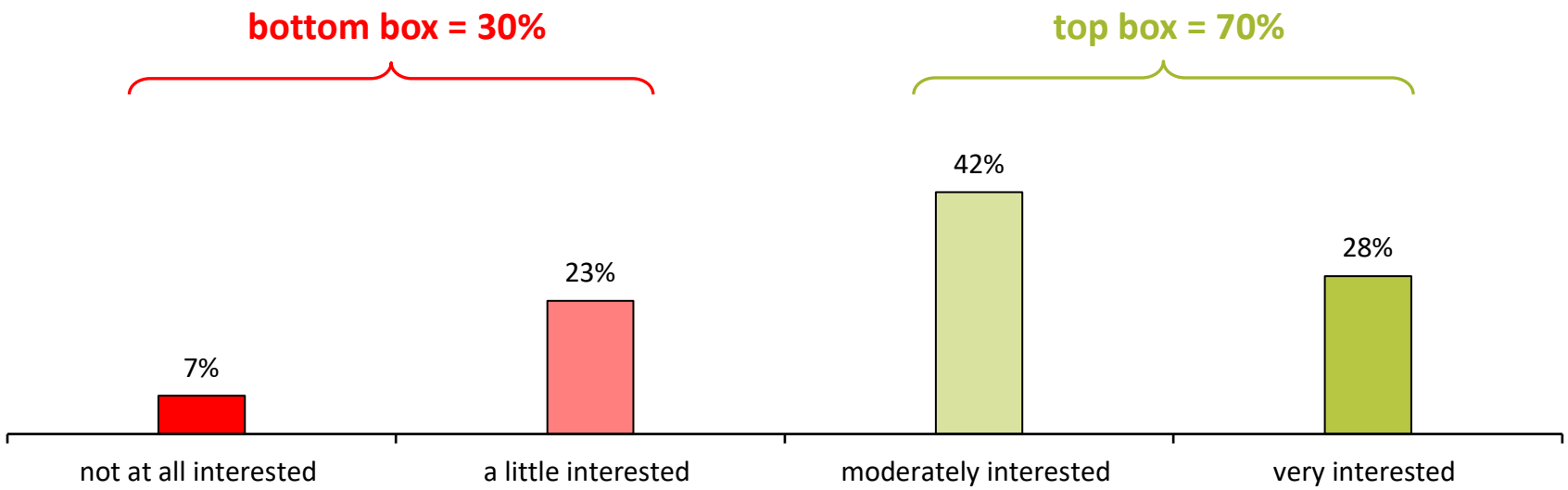
Q.101 Do you know, have you read about or heard about ...? **the website or social media of Science.lu?**

focus on Researchers' days

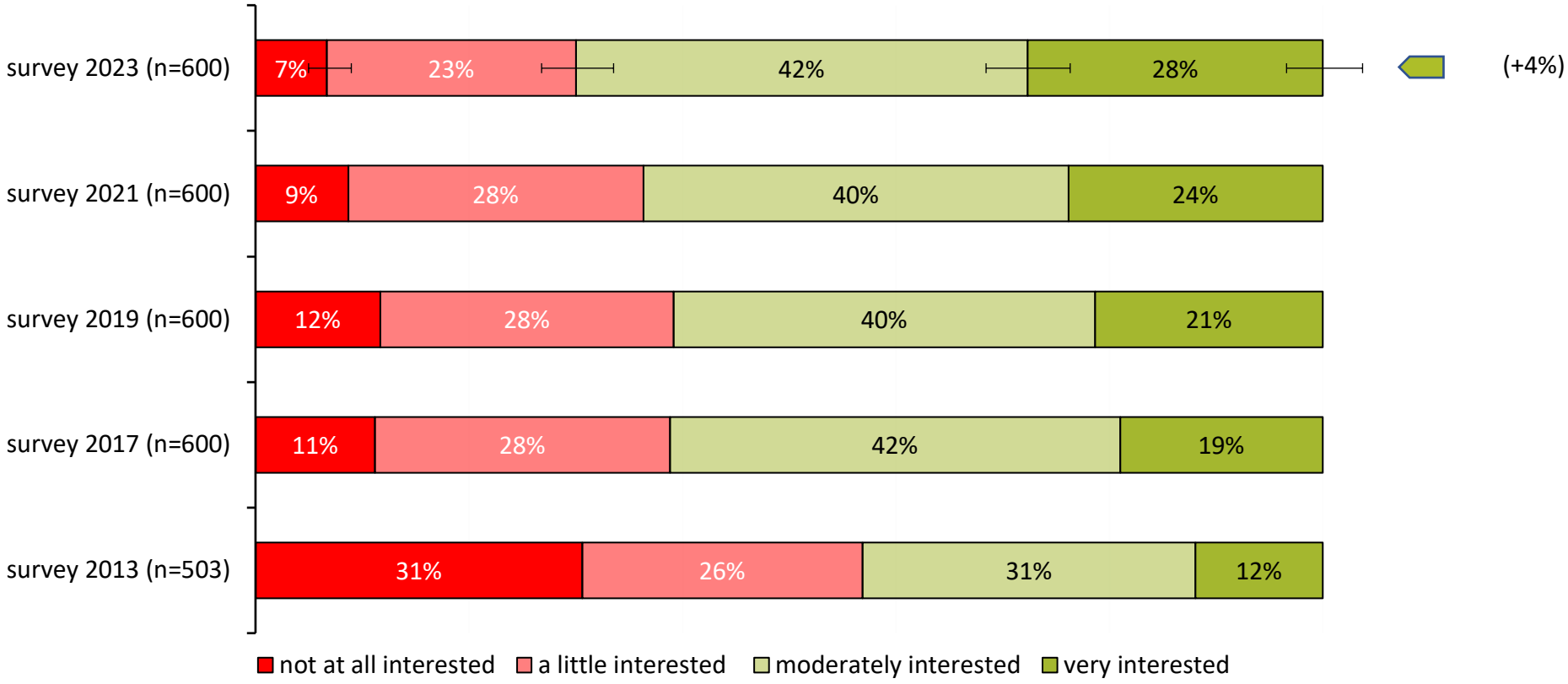


Q.101 Do you know, have you read about or heard about ...? **Researchers' Days**

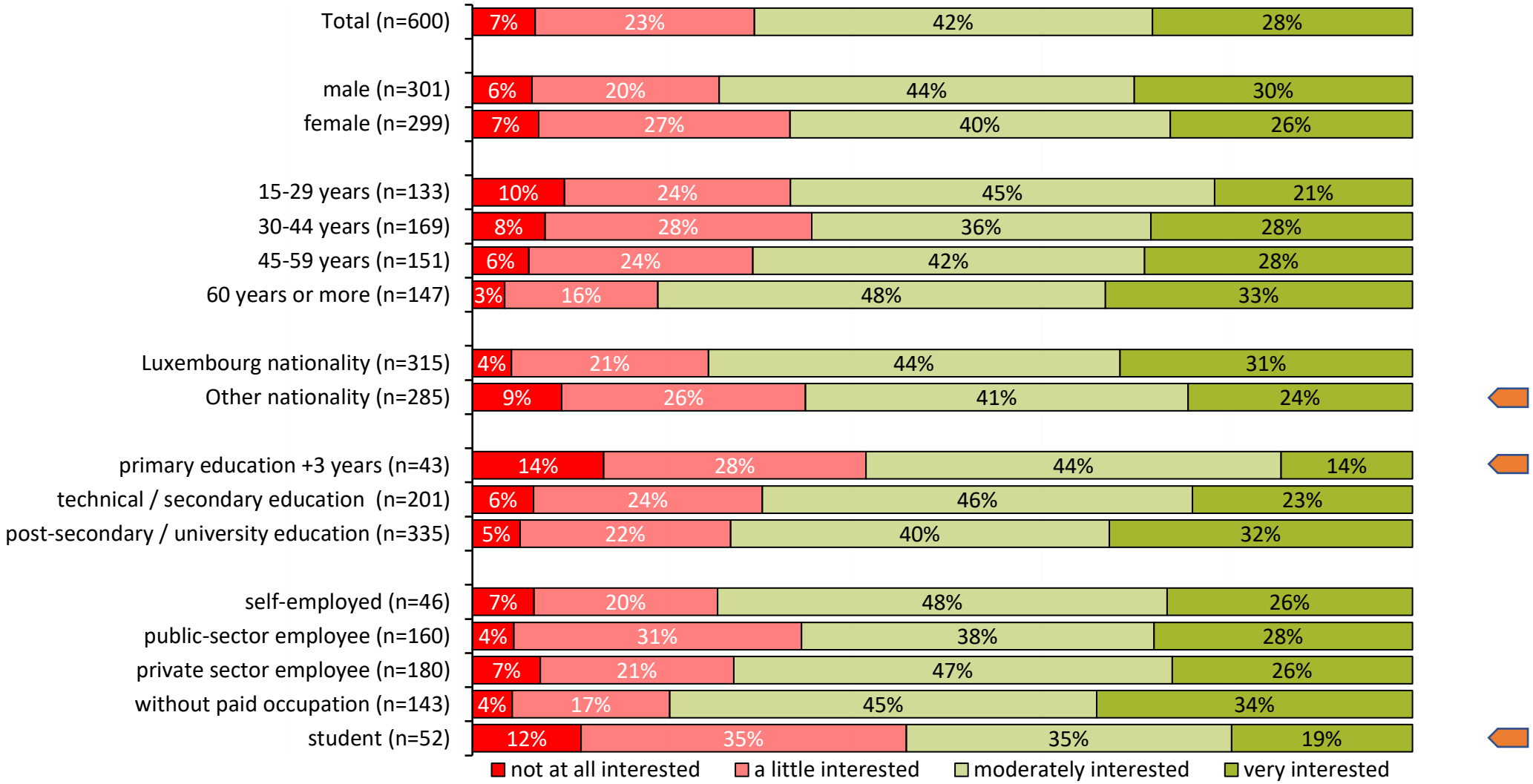
b.) interest and information



Q.201 With respect to science and research in Luxembourg you are… (n=600)



Q.201 With respect to science and research in Luxembourg you are…



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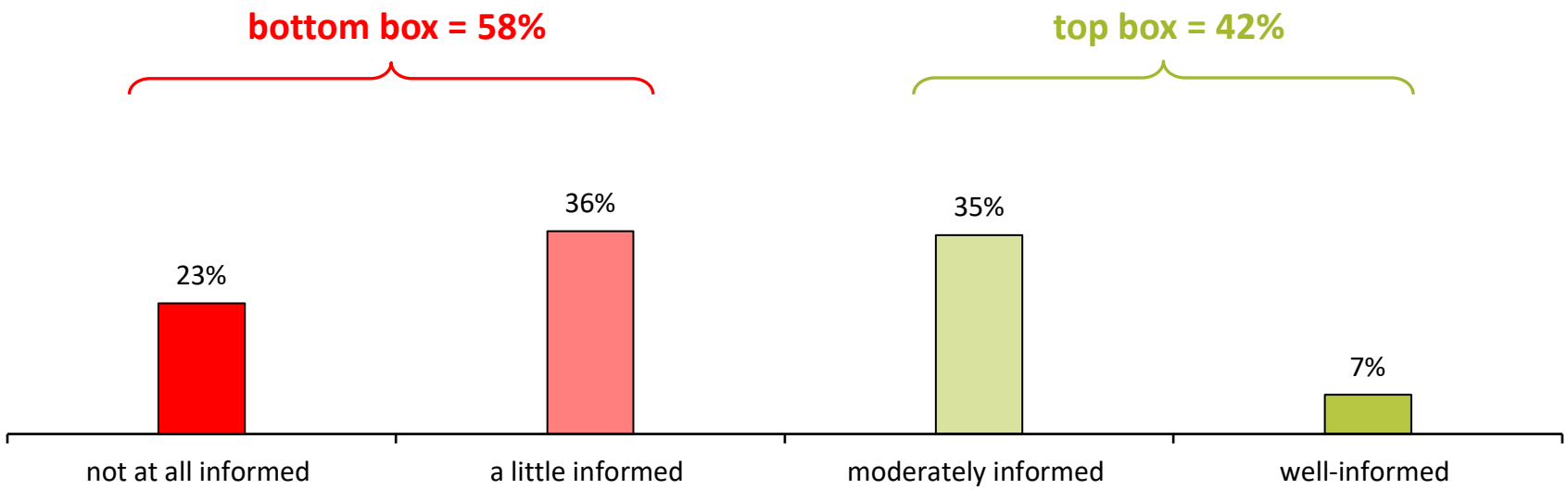
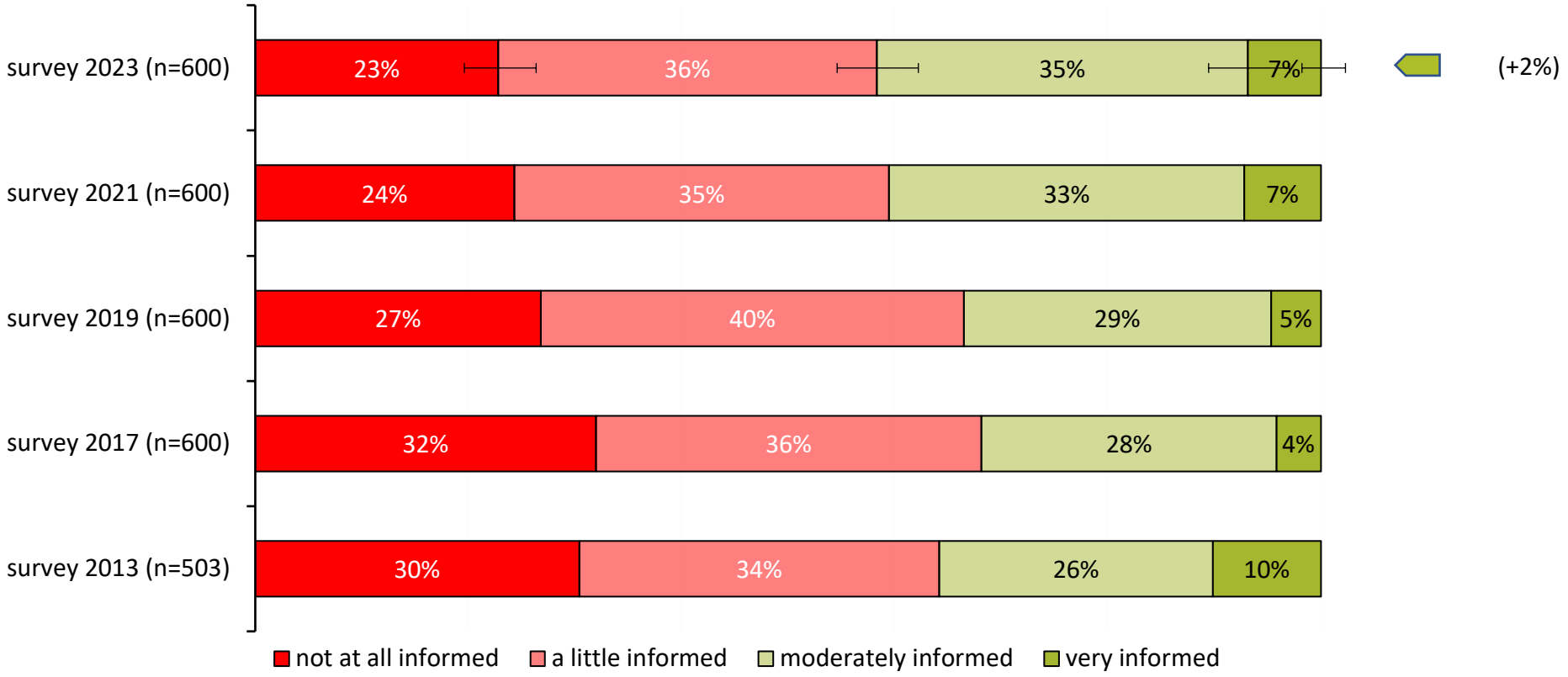
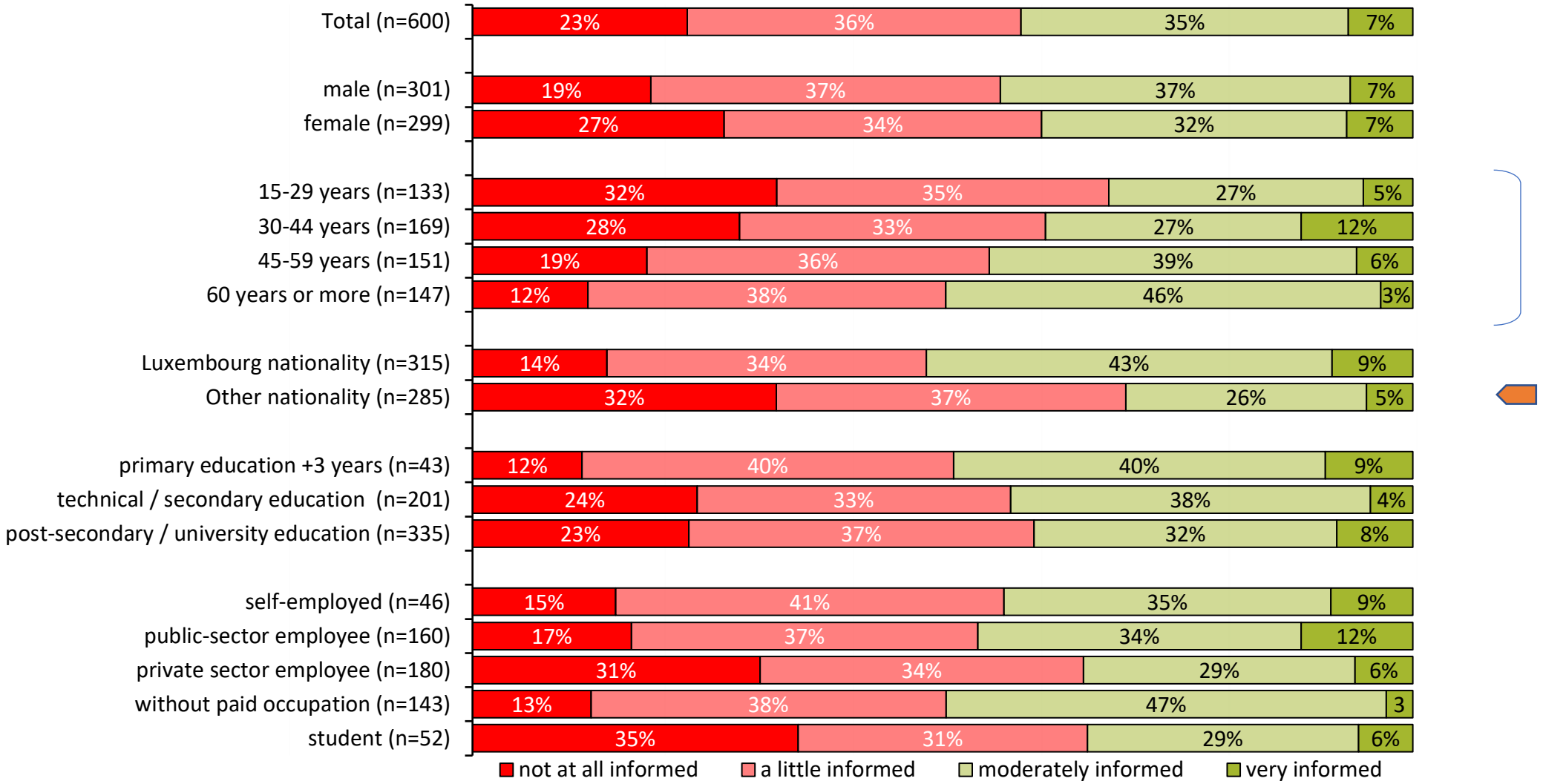


Q.202 With respect to science and research in Luxembourg you feel… (n=600)



Q.202 With respect to science and research in Luxembourg you feel…



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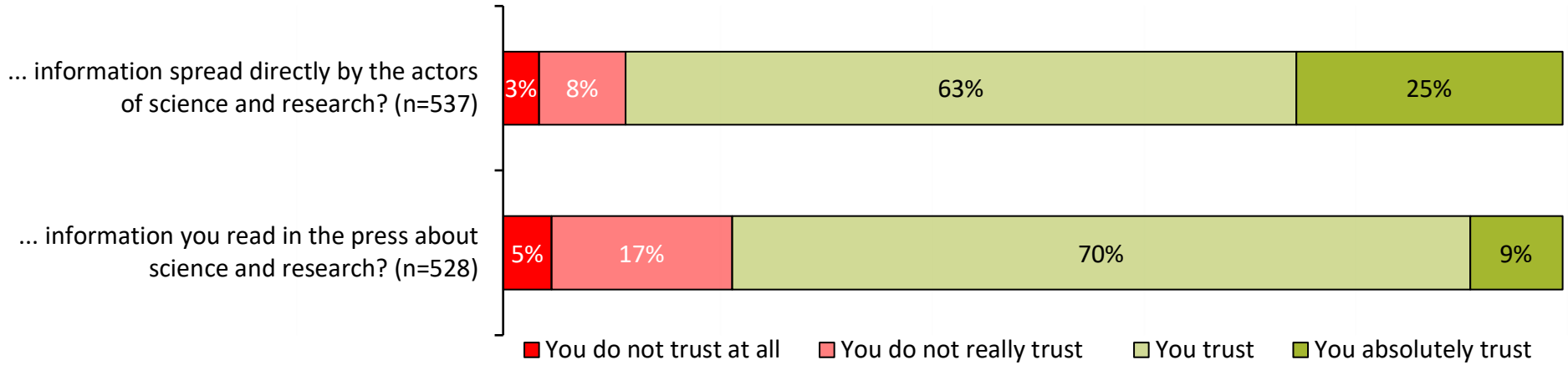
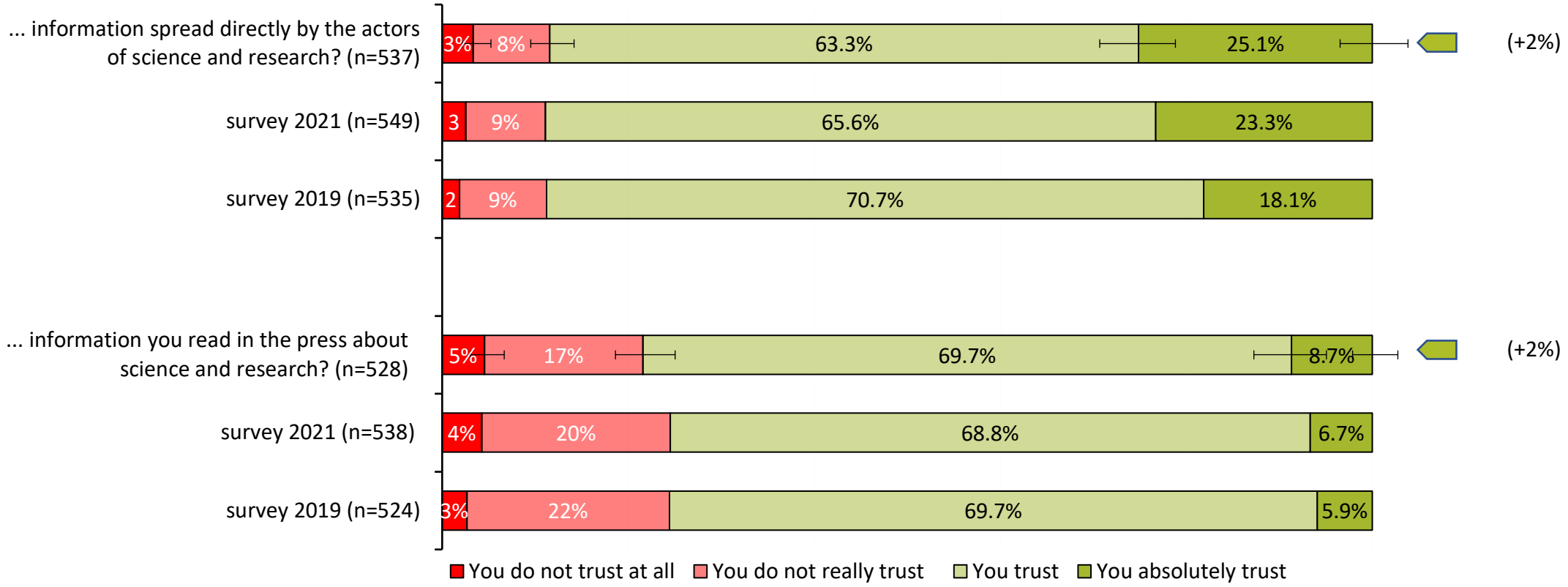


Q.202.1 What is your trust level in regards to…



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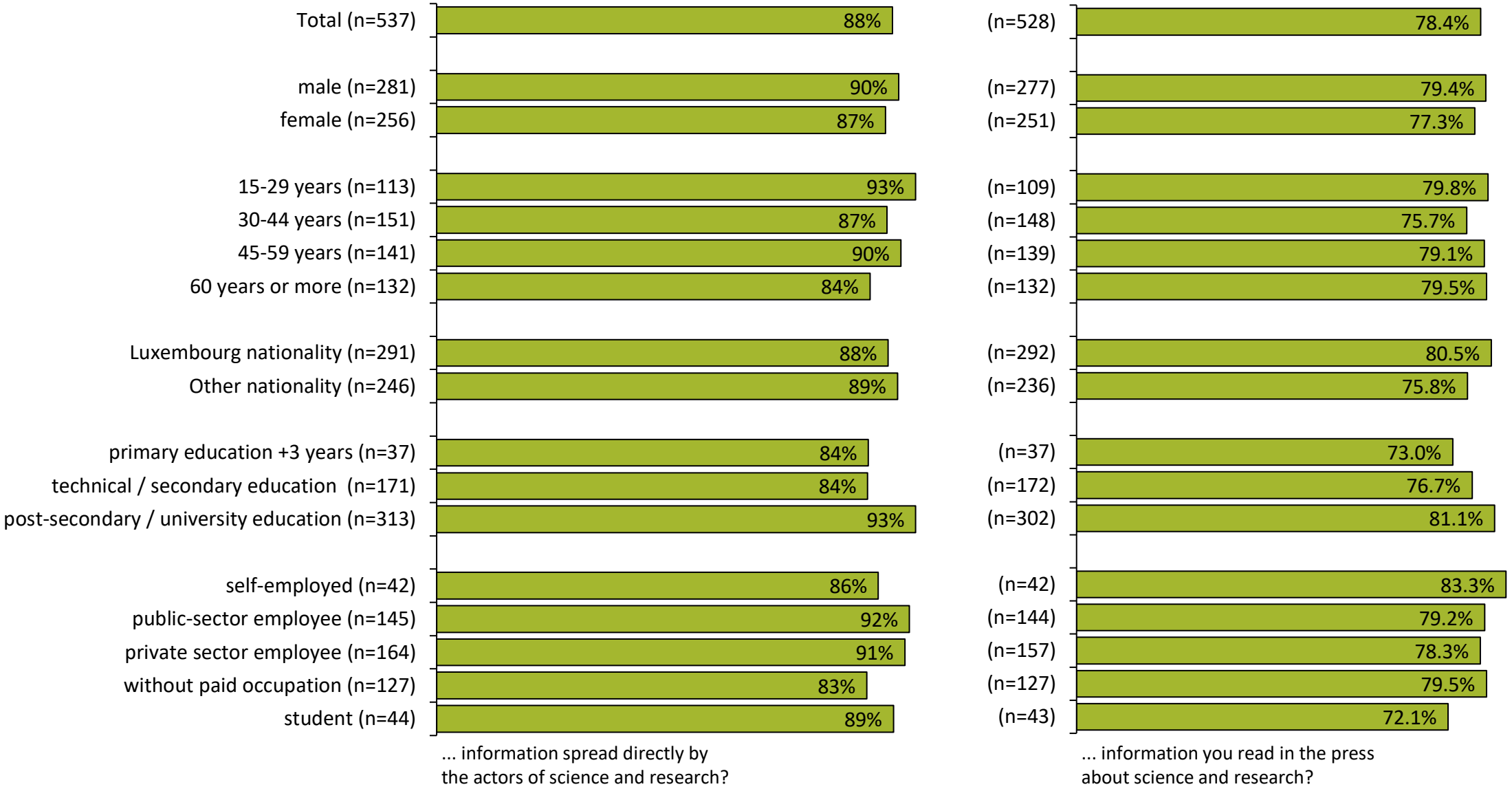
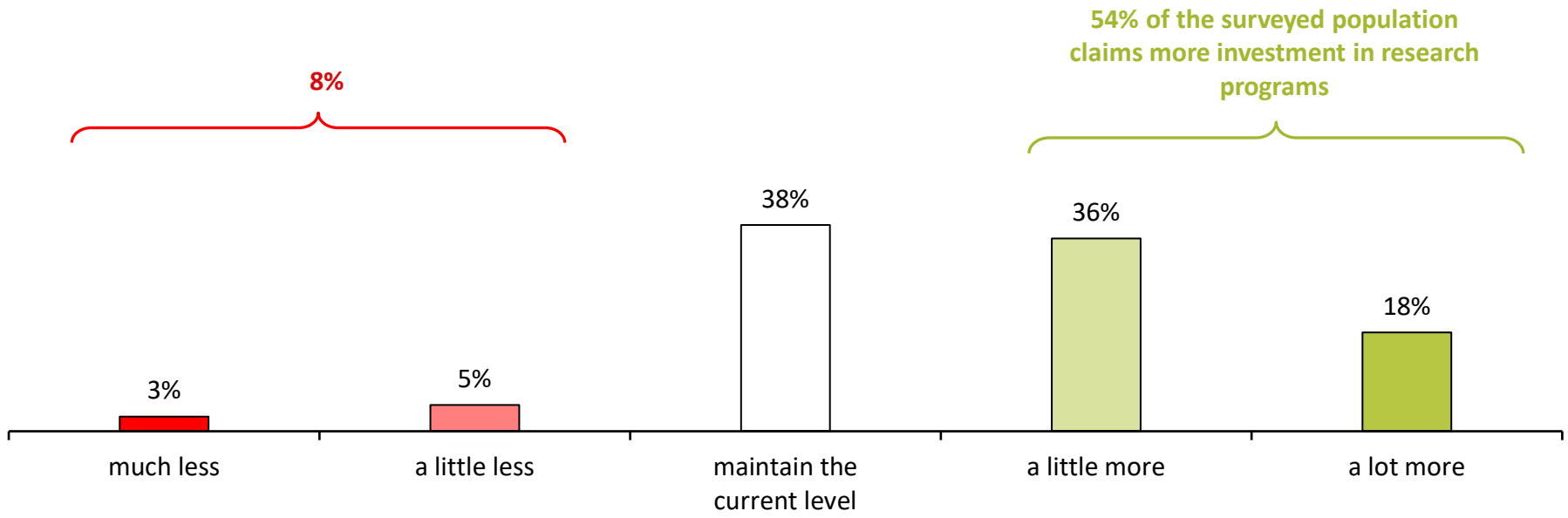
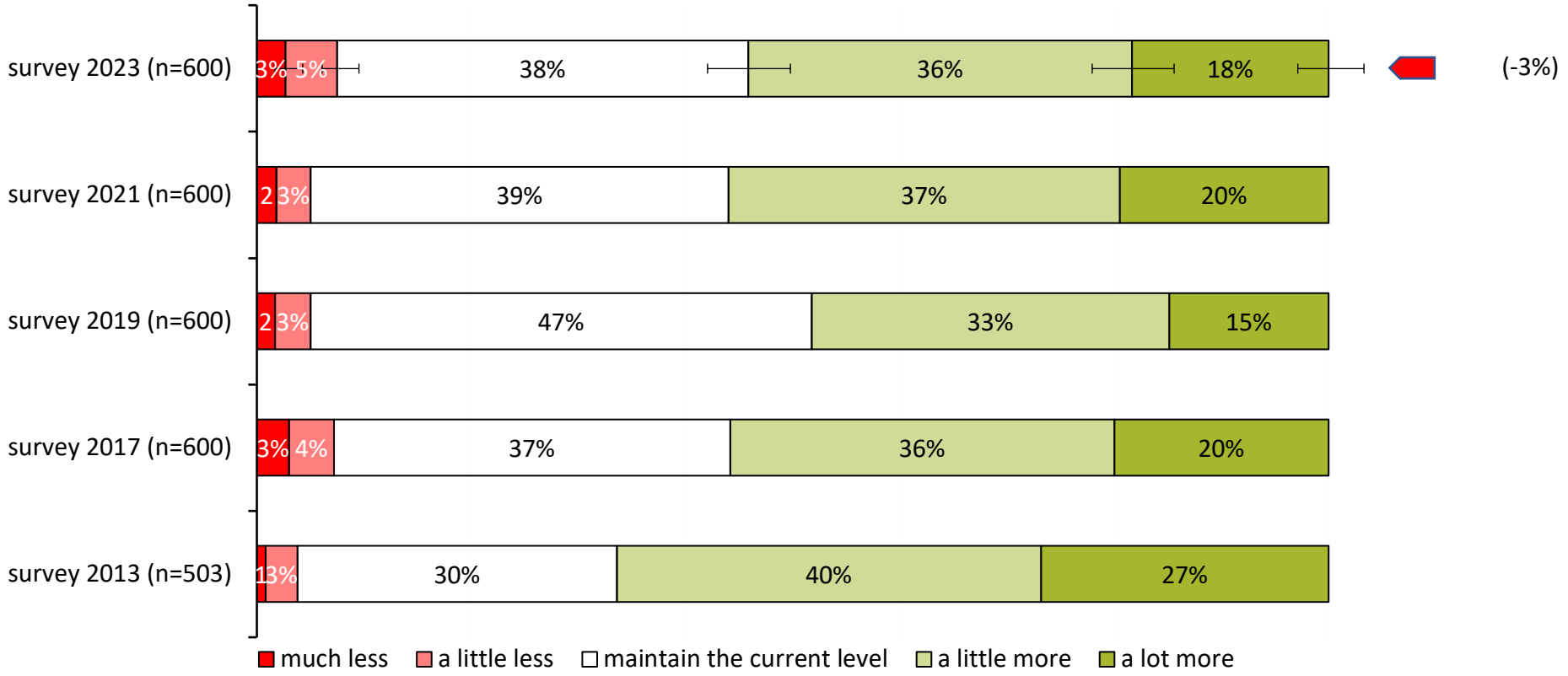


Q.202 What is your trust level in regards to…

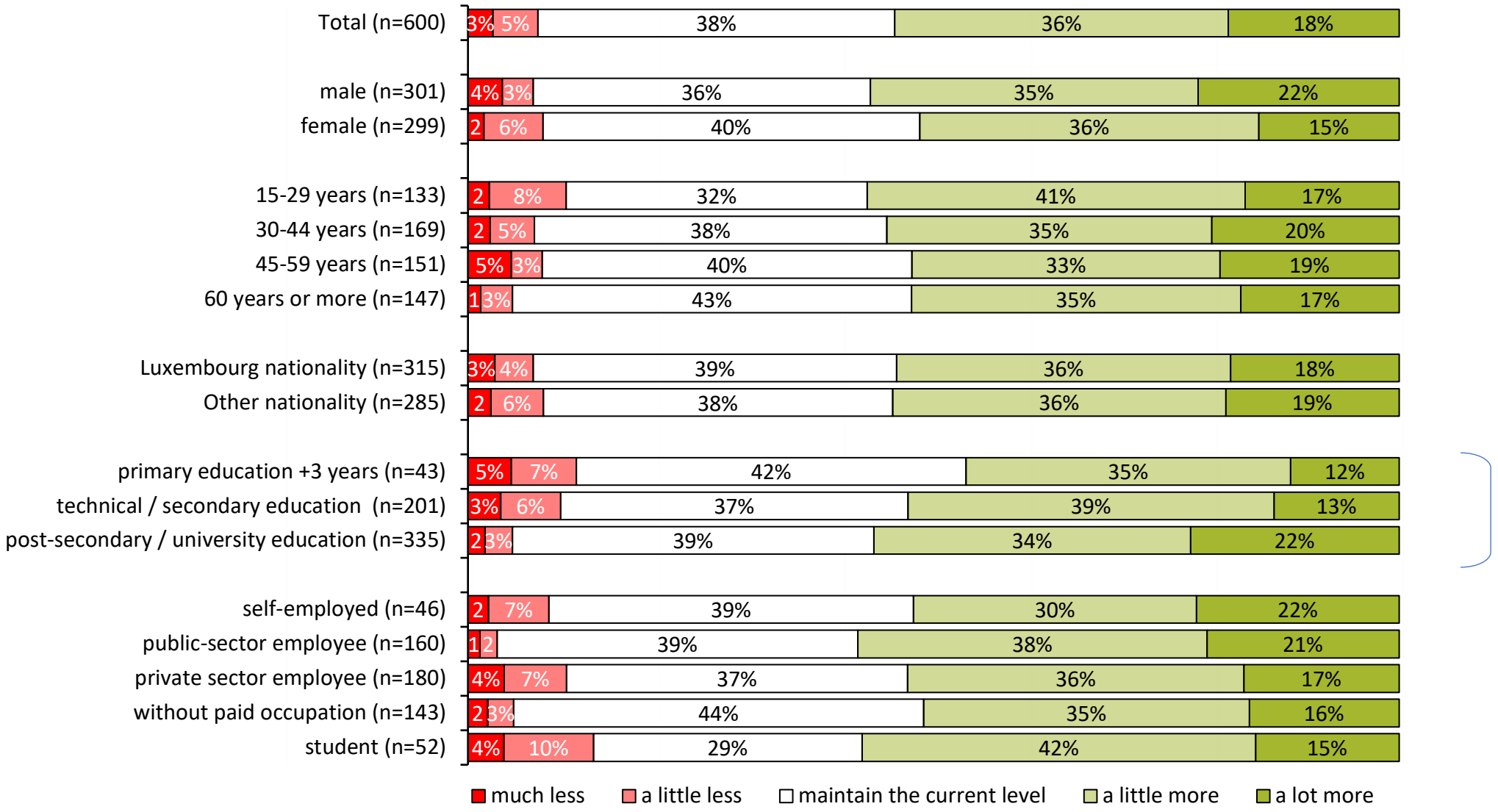
c.) investment and educational efforts



Q.301 In your opinion, how much should the Luxembourg nation invest in research programs? (n=600)



Q.301 In your opinion, how much should the Luxembourg nation invest in research programs?



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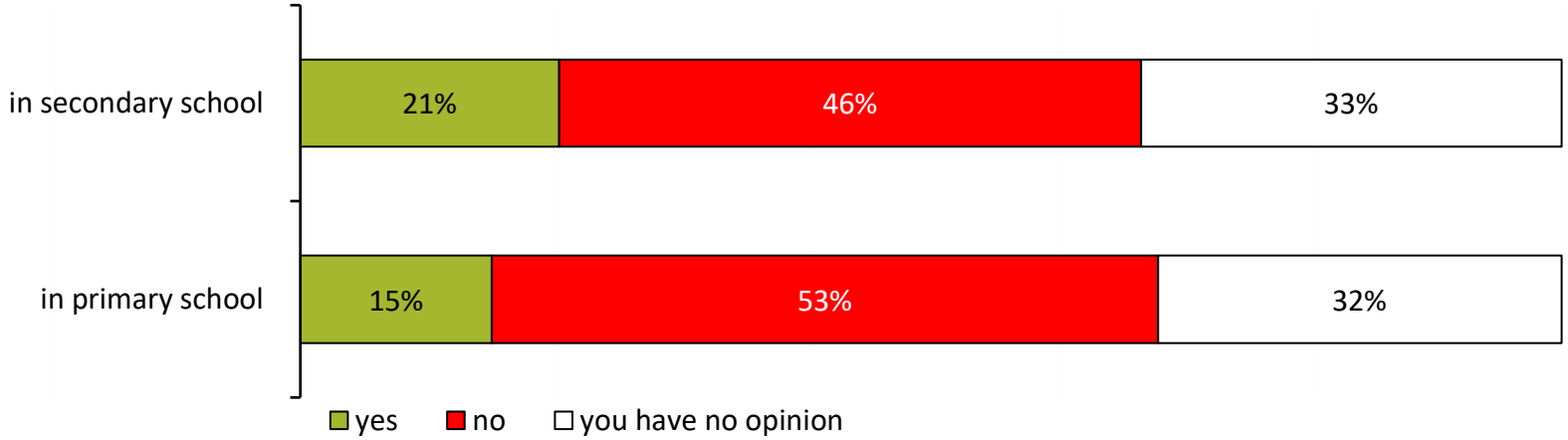
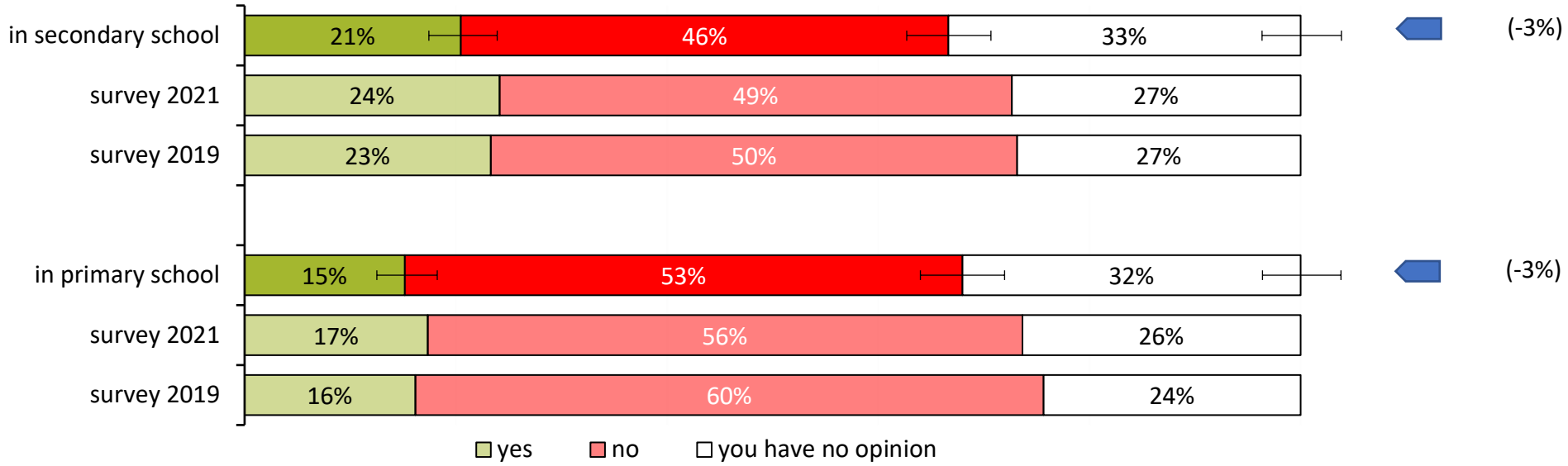


Q.301.1 Do you think children/youngsters are sufficiently well trained in regards to science ... (n=600)



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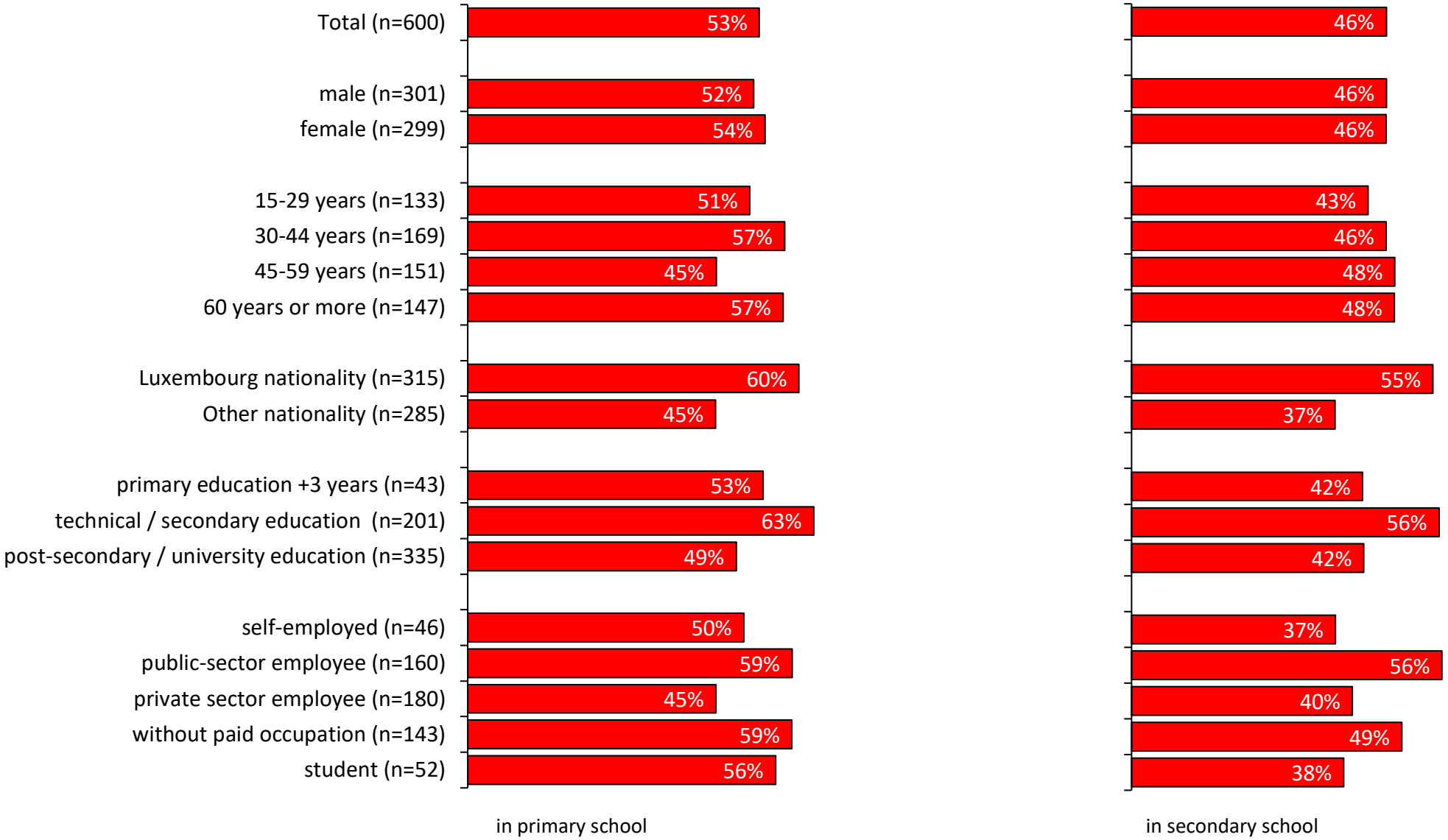
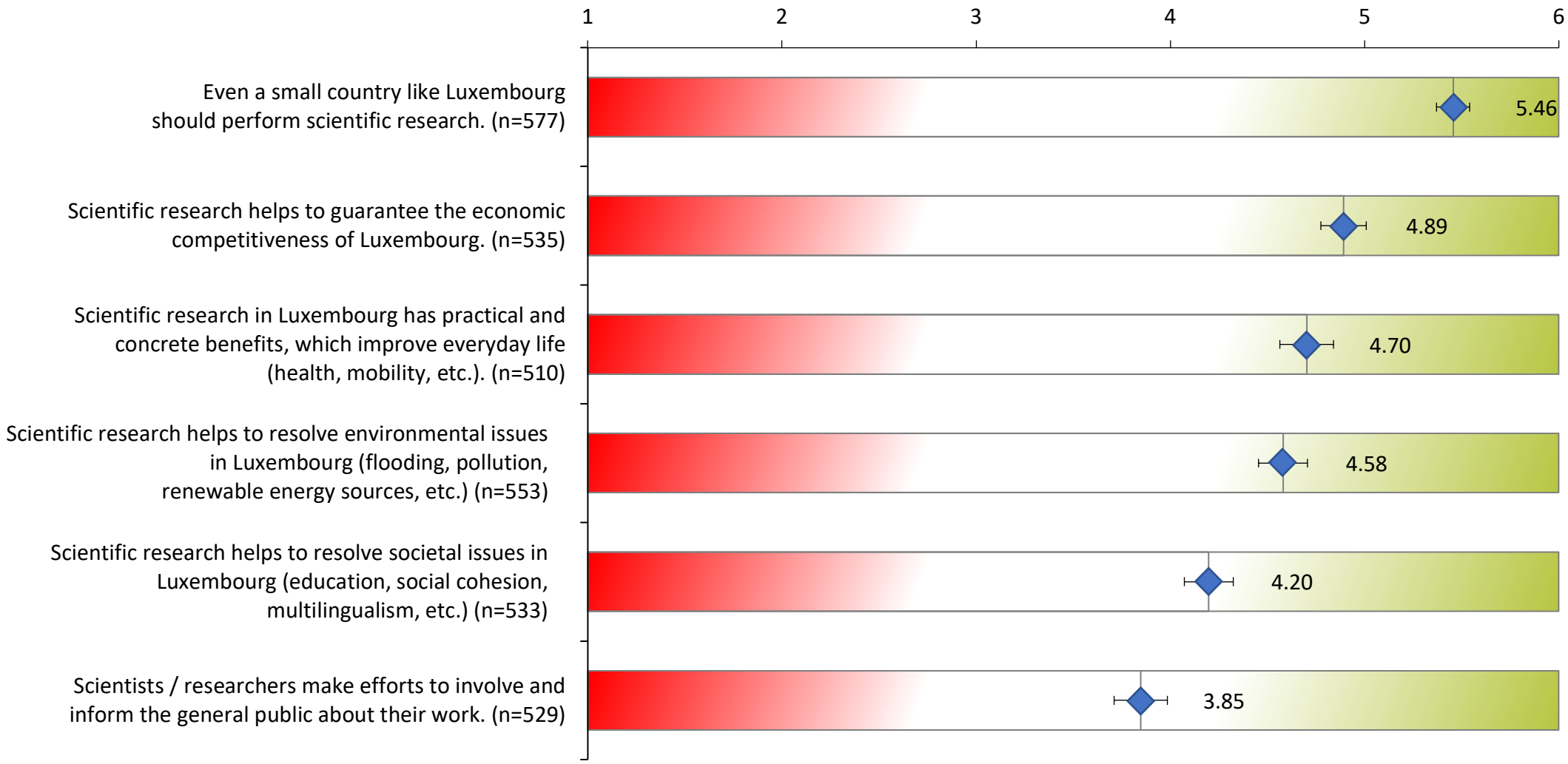
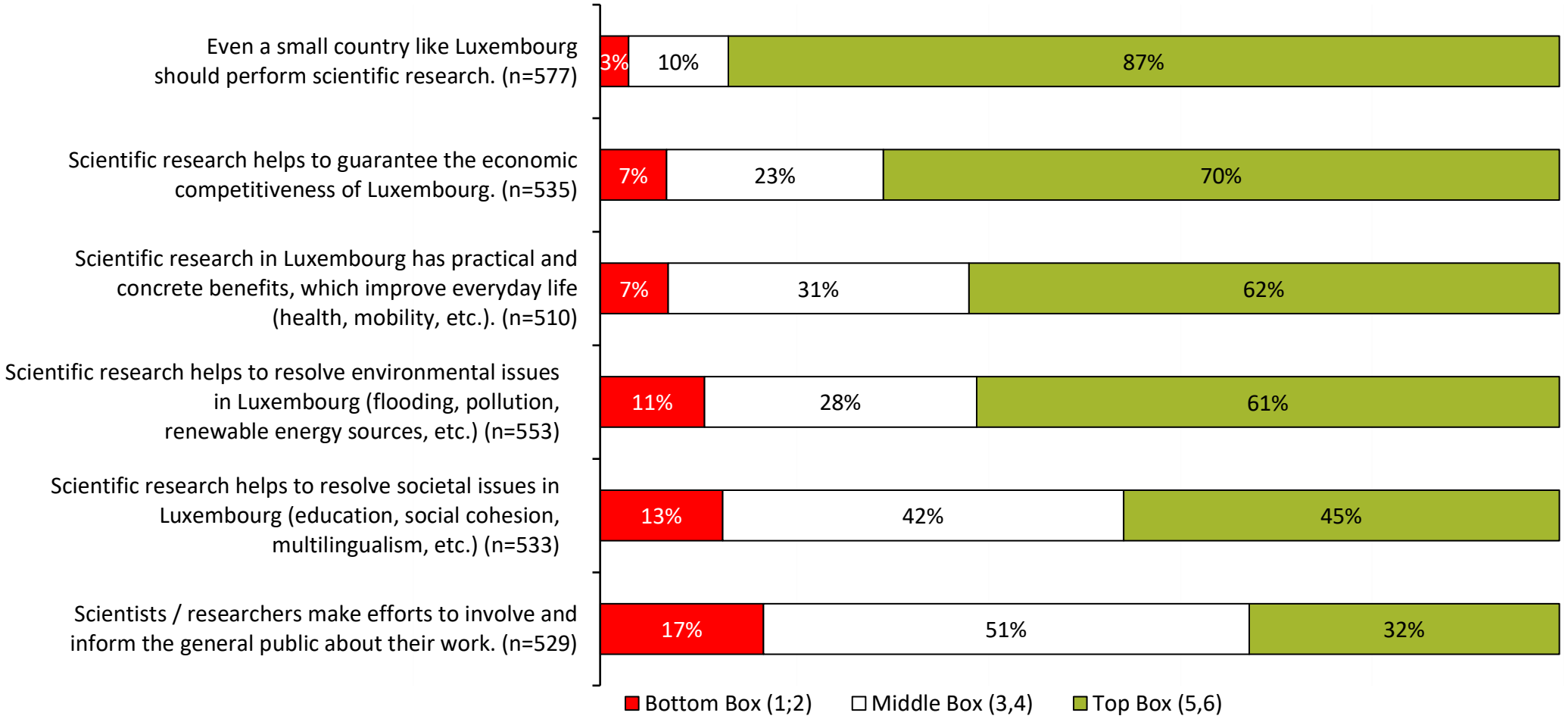


Q.301.1 Do you think children/youngsters are sufficiently well trained in regards to science ...

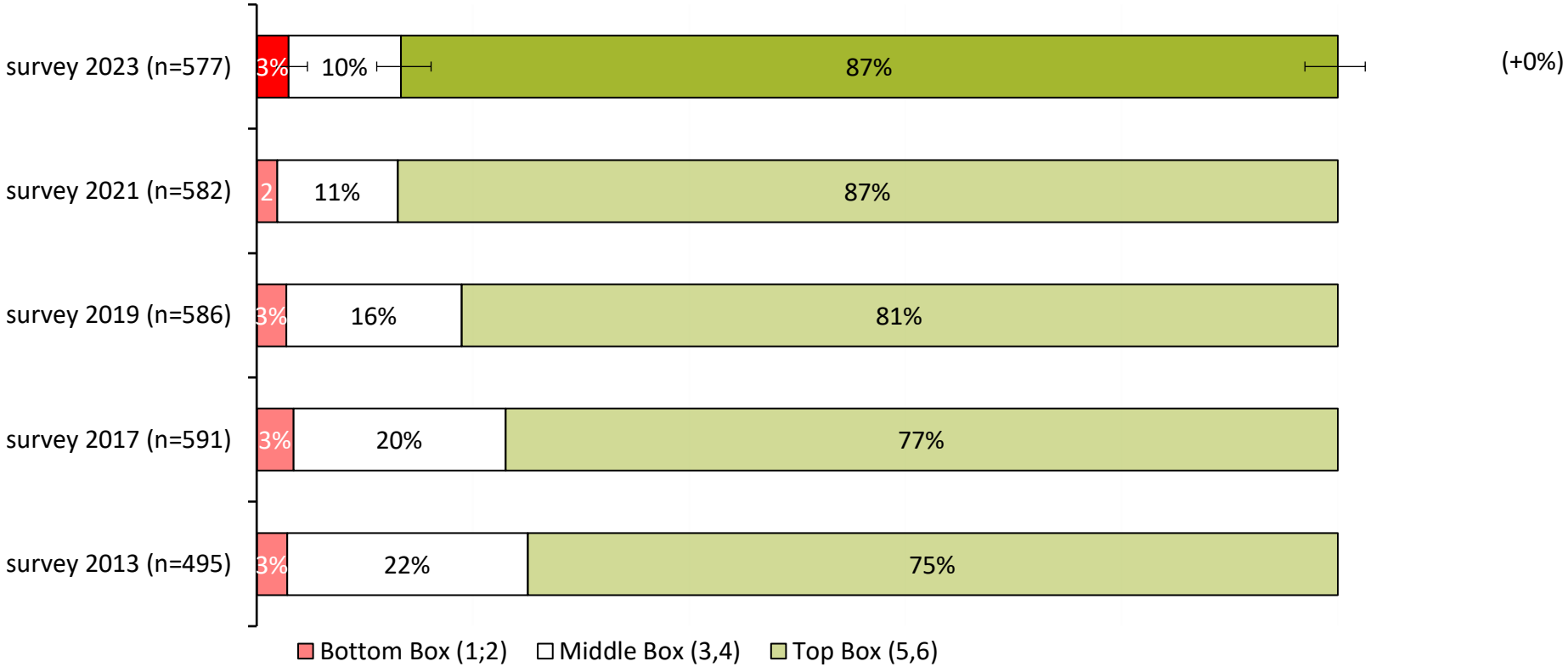
d.) basic attitudes and impact of scientific research



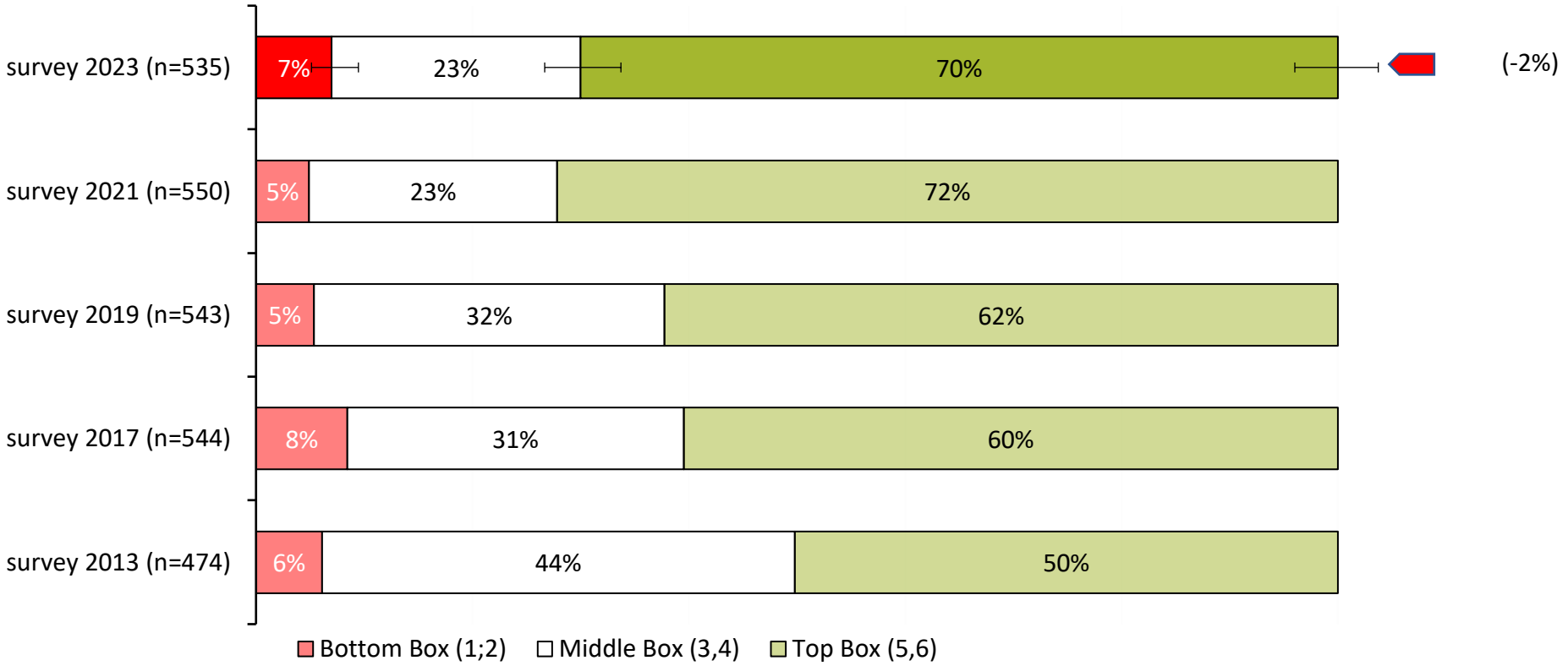
Q.400 Below you will find different statements. On a scale of 1 to 6, indicate to what extent you agree with the following statements:



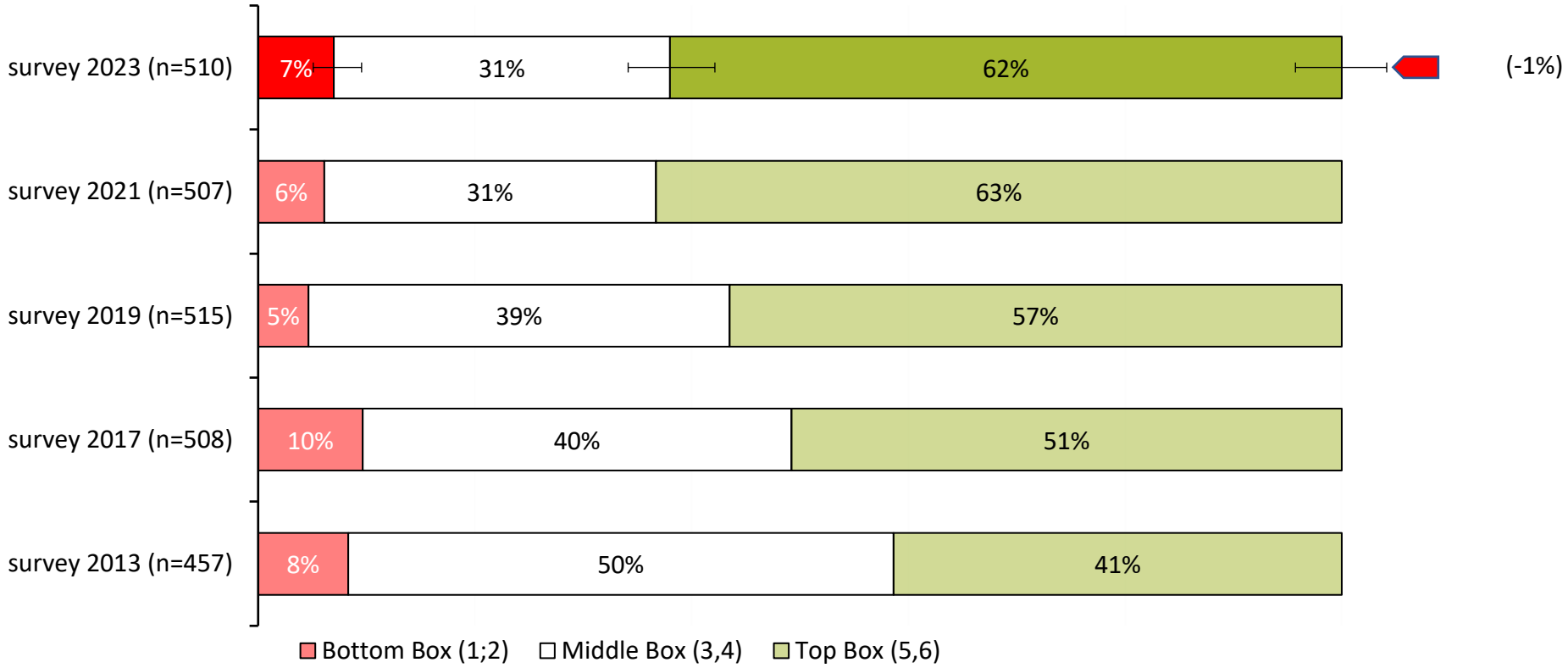
Q.400 Below you will find different statements. On a scale of 1 to 6, indicate to what extent you agree with the following statements:



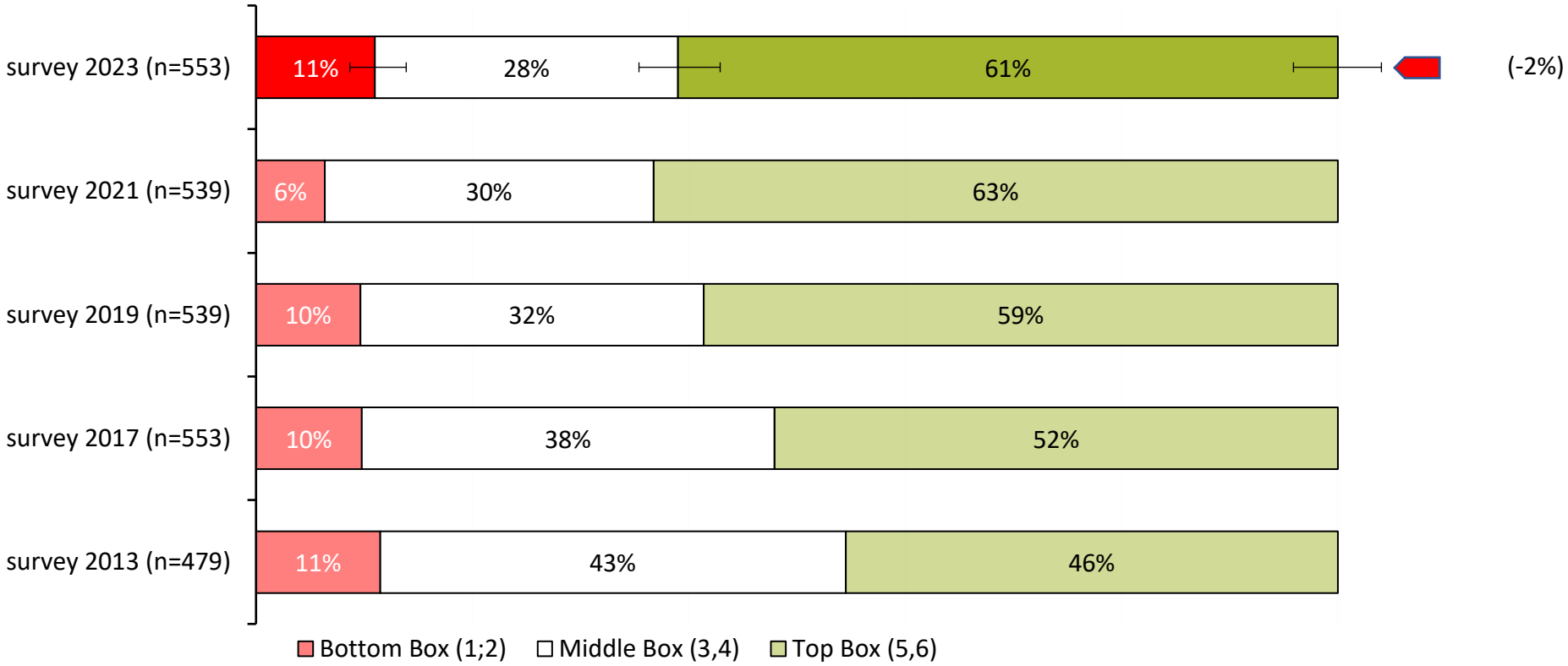
Q.400.1 **Even a small country like Luxembourg should perform scientific research**.
Comparative survey 2023 vs. 2021/2019/2017/2013



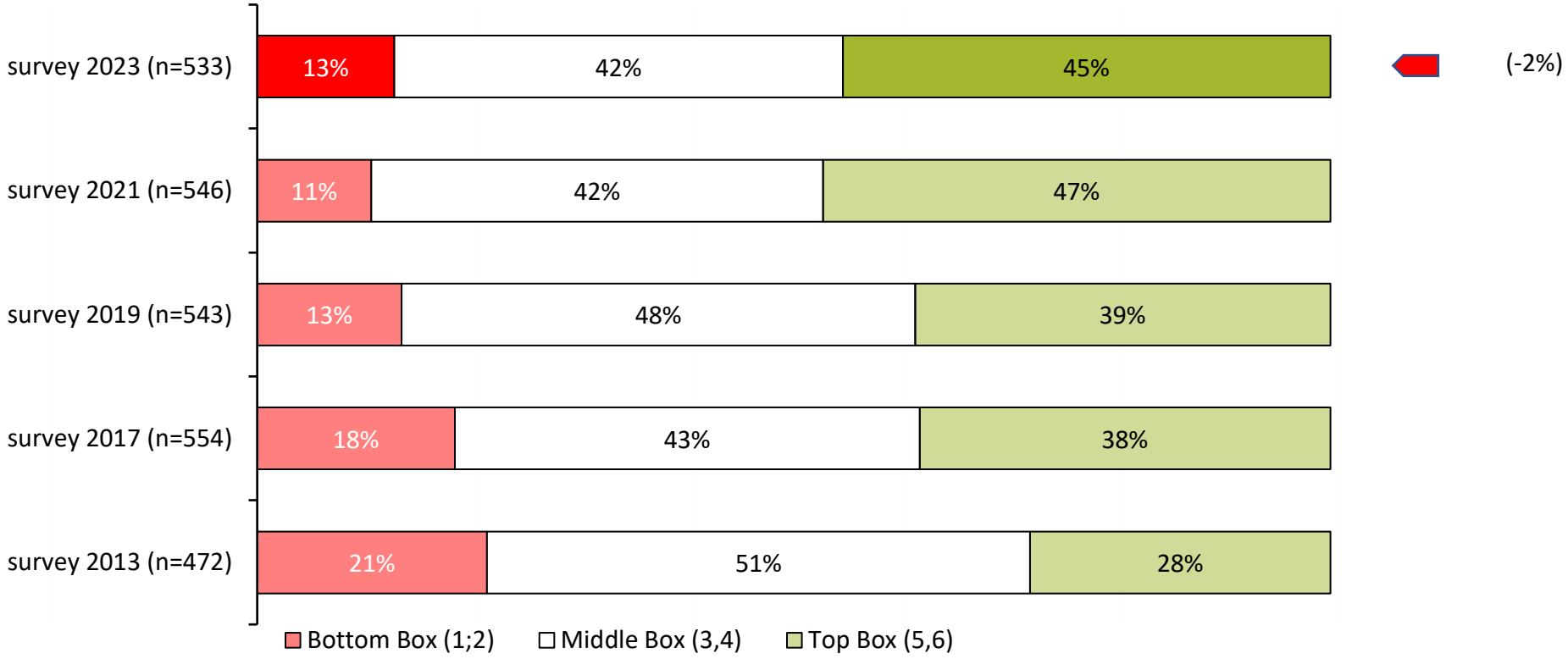
Q.400.3 **Scientific research helps to guarantee the economic competitiveness of Luxembourg**.
Comparative survey 2023 vs. 2021/2019/2017/2013



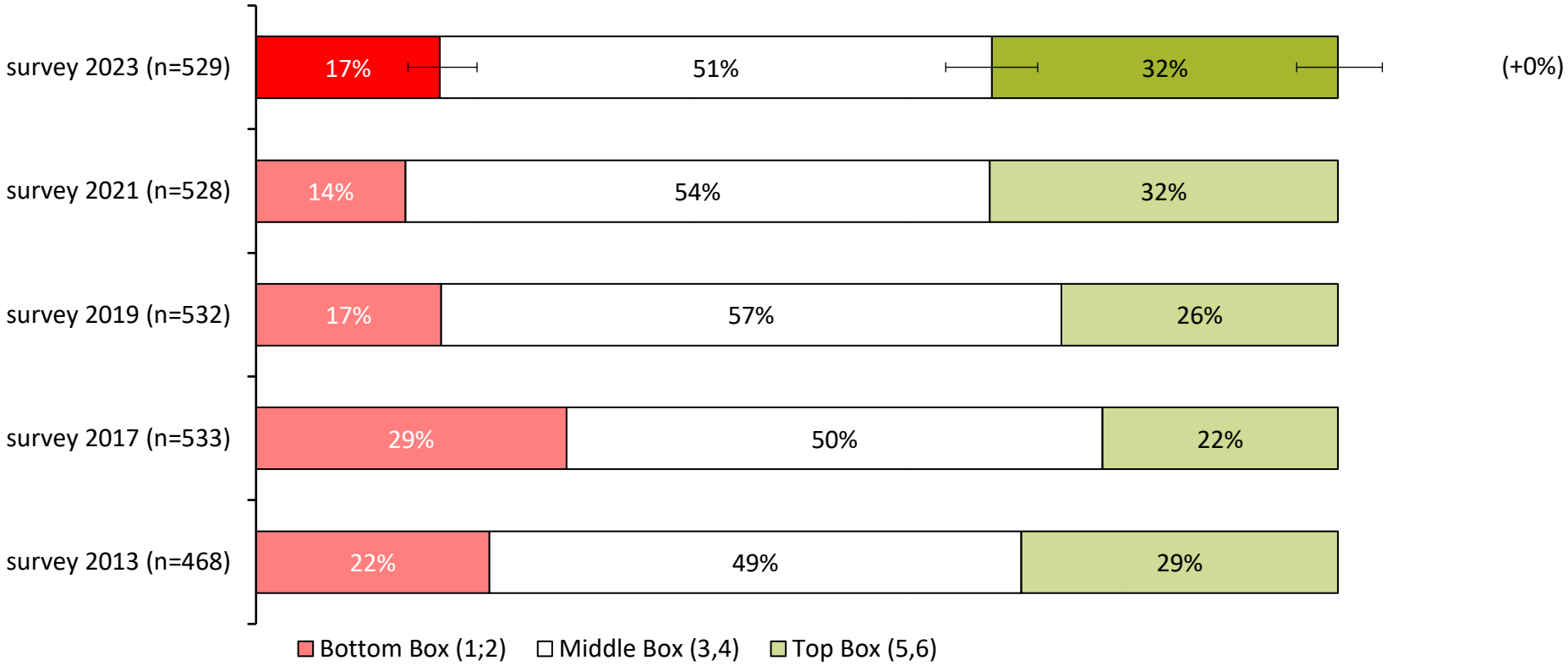
Q.400.2 **Scientific research in Luxembourg has practical and concrete benefits, which improve everyday life (health, mobility, etc.)**.
Comparative survey 2023 vs. 2021/2019/2017/2013



Q.400.4 **Scientific research helps to resolve environmental issues in Luxembourg (flooding, pollution, renewable energy sources, etc.)**.
Comparative survey 2023 vs. 2021/2019/2017/2013



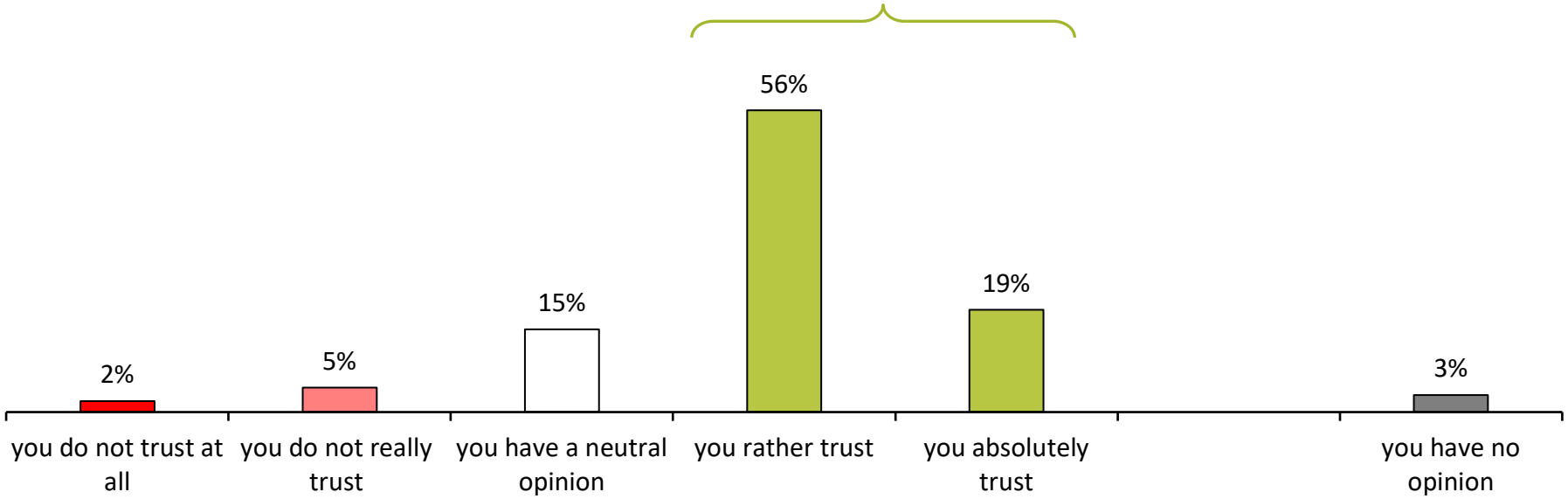
Q.400.5 **Scientific research helps to resolve societal issues in Luxembourg (education, social cohesion, multilingualism, etc.)**.
Comparative survey 2023 vs. 2021/2019/2017/2013



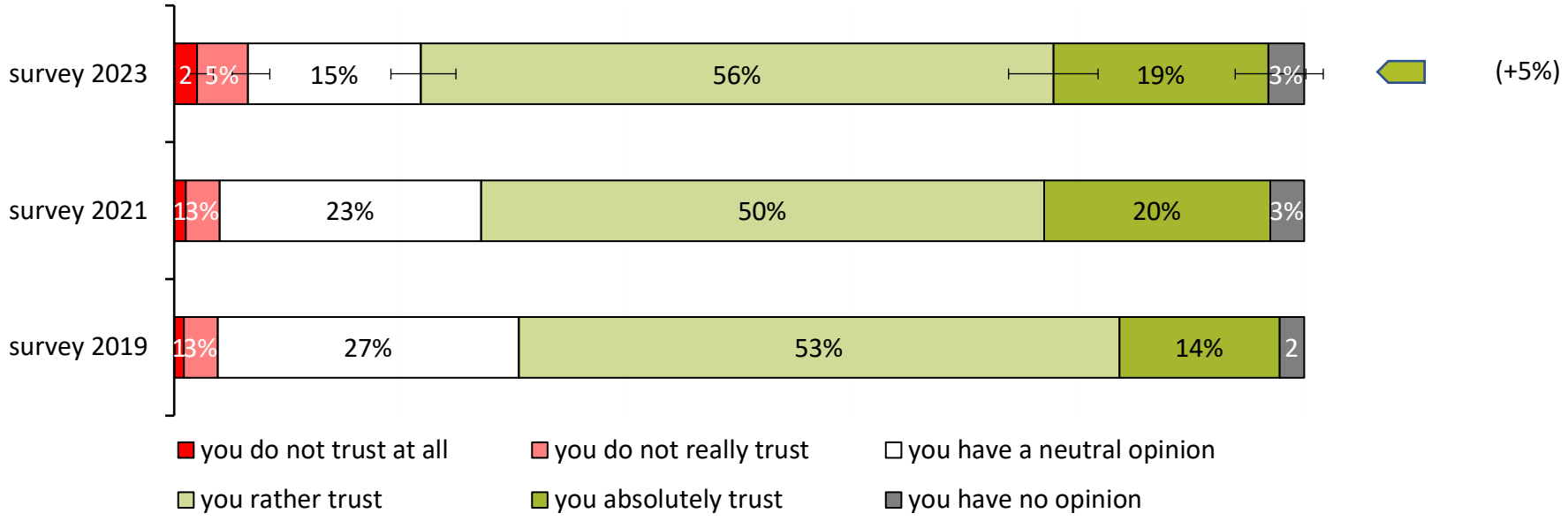
Q.400.6 **Scientists / researchers make efforts to involve and inform the general public about their work**.
Comparative survey 2023 vs. 2021/2019/2017/2013

e.) confidence indicators

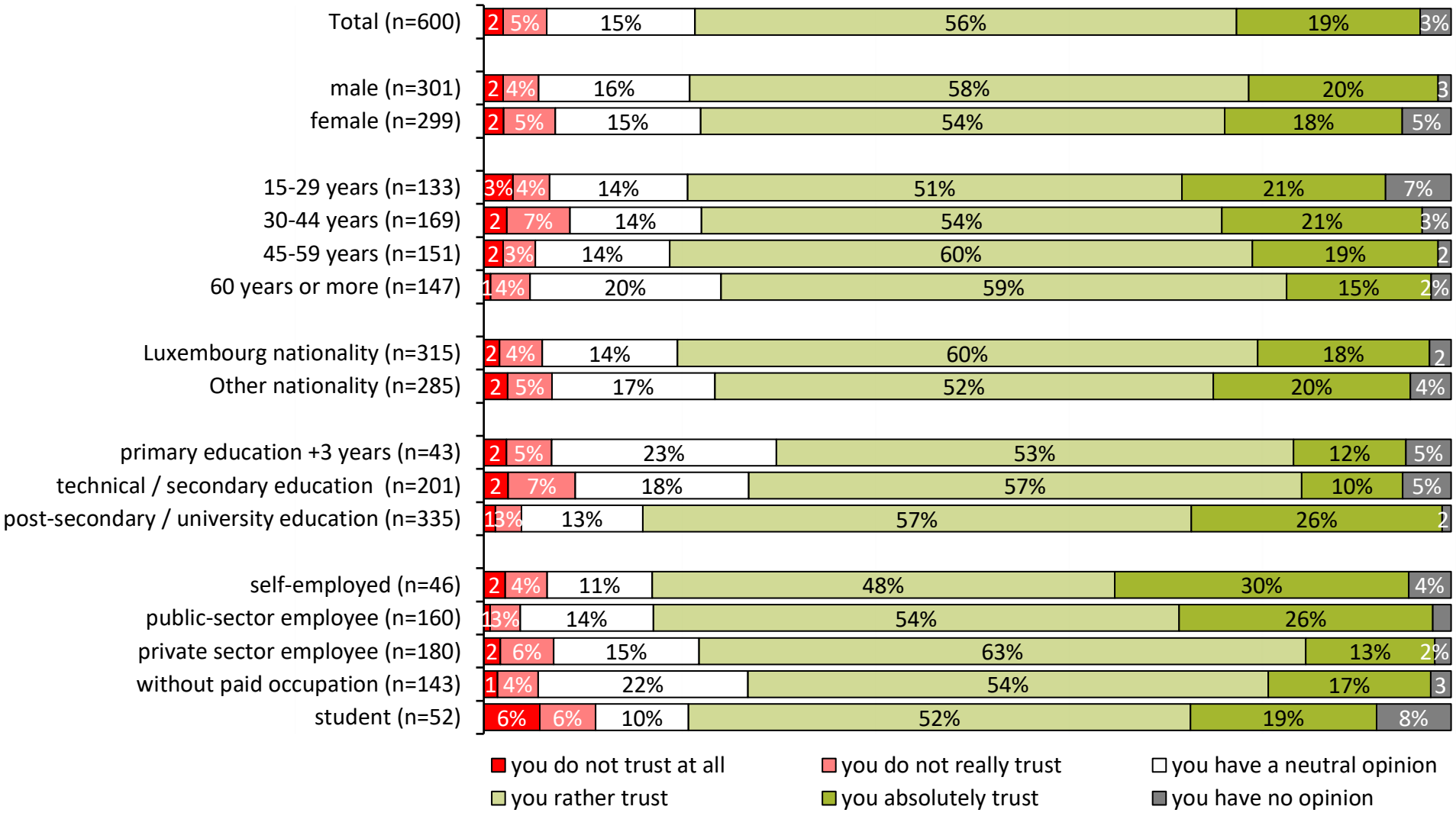
75% of the surveyed population have confidence in science and research



Q.401 What is your trust level in regards to science and research? (n=600)

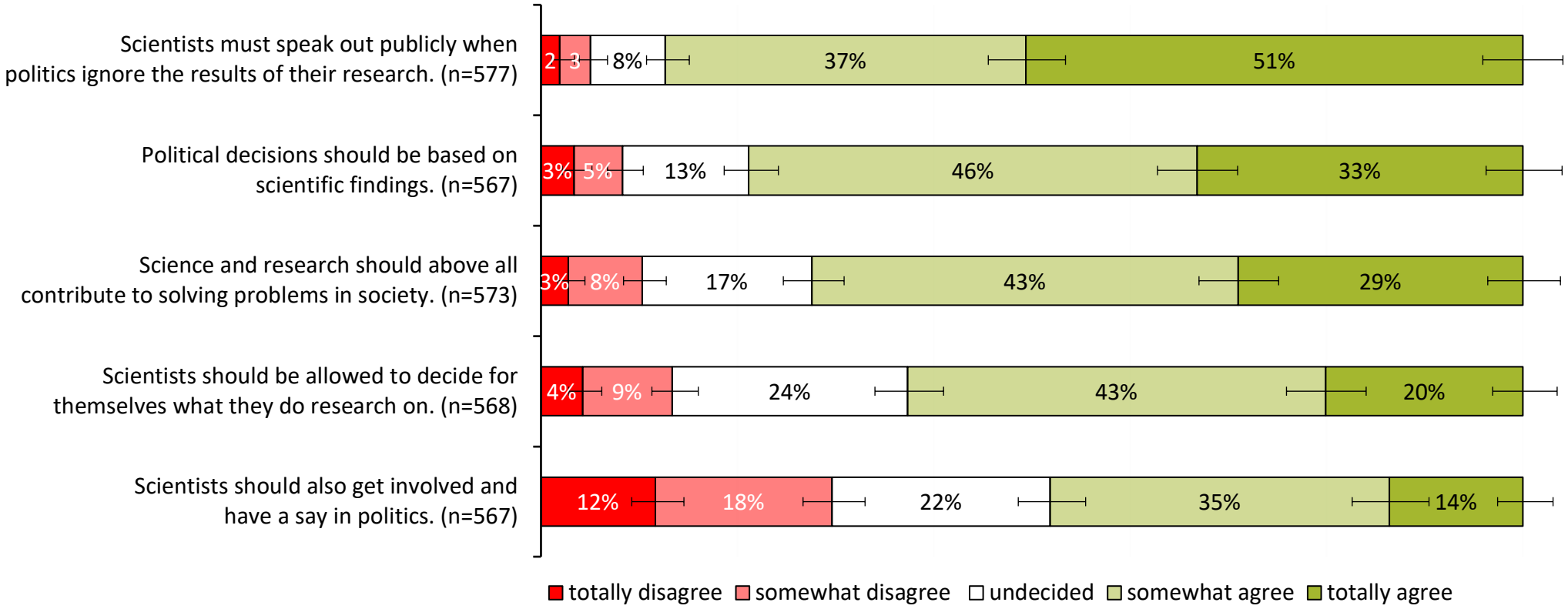


Q.401 What is your trust level in regards to science and research? (n=600)

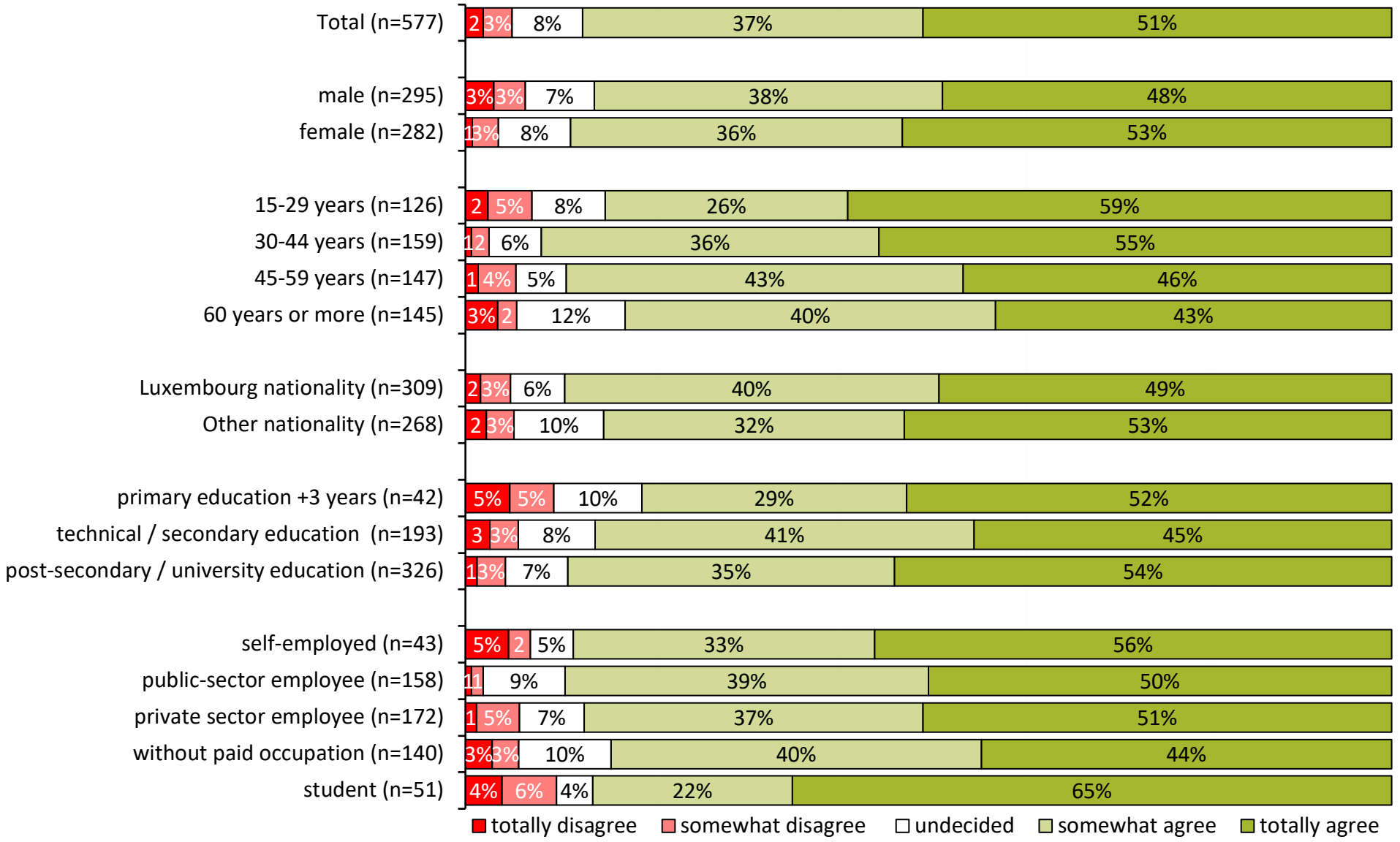


Q.401 What is your trust level in regards to science and research?

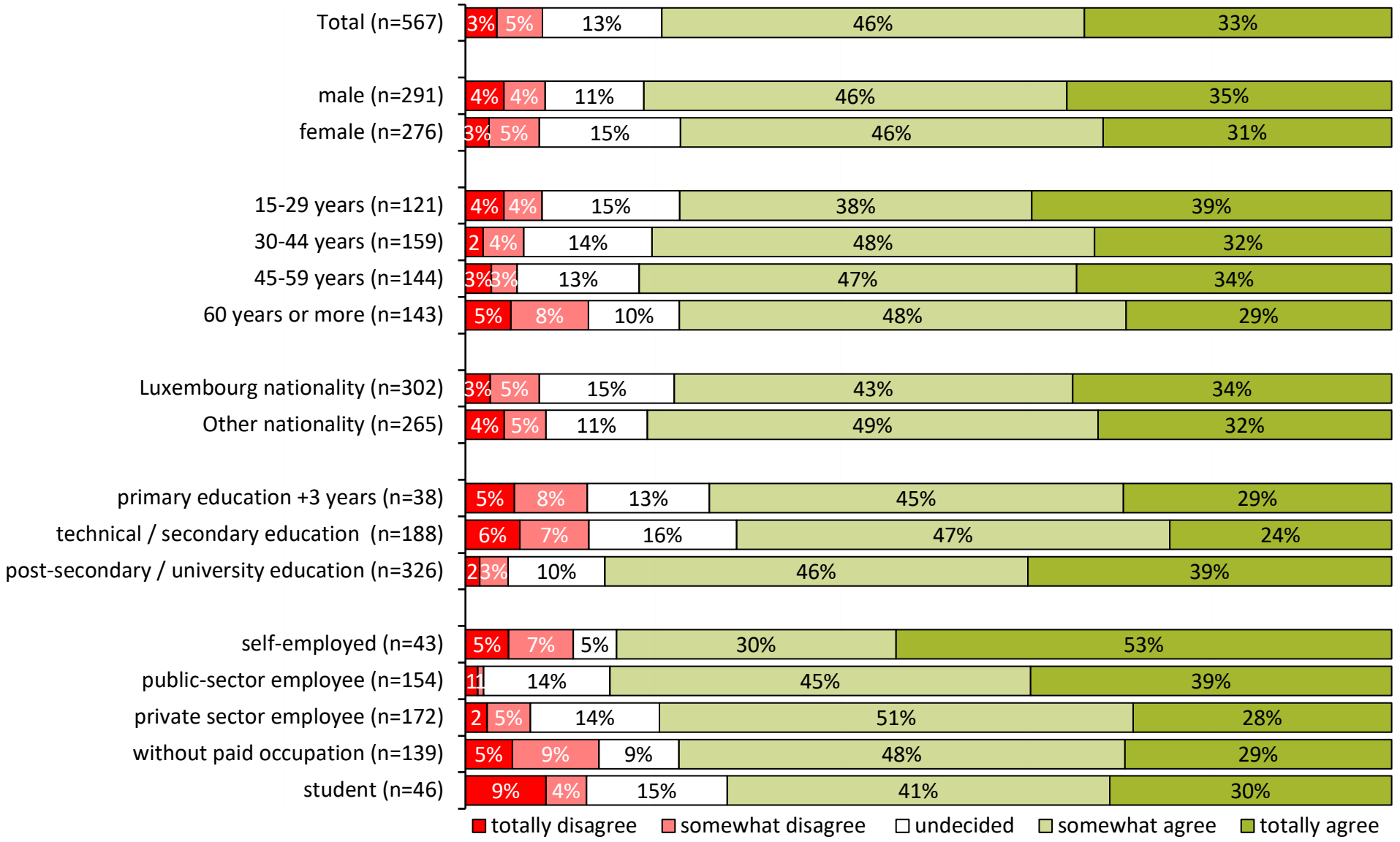
f.) science and politics



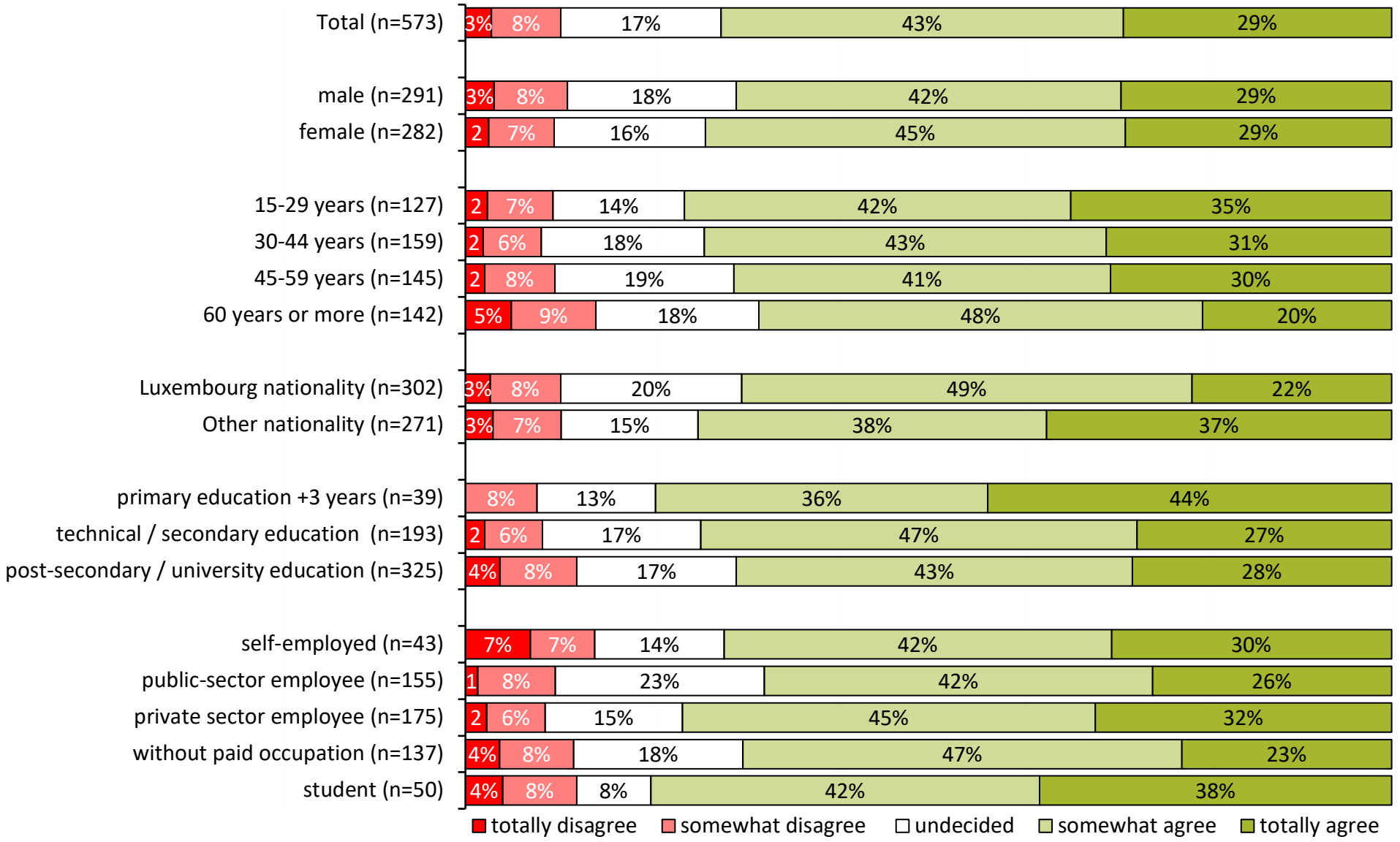
Q.402 Regarding the relationship between science and politics, to what extent do you agree with the following statements? (n=600)



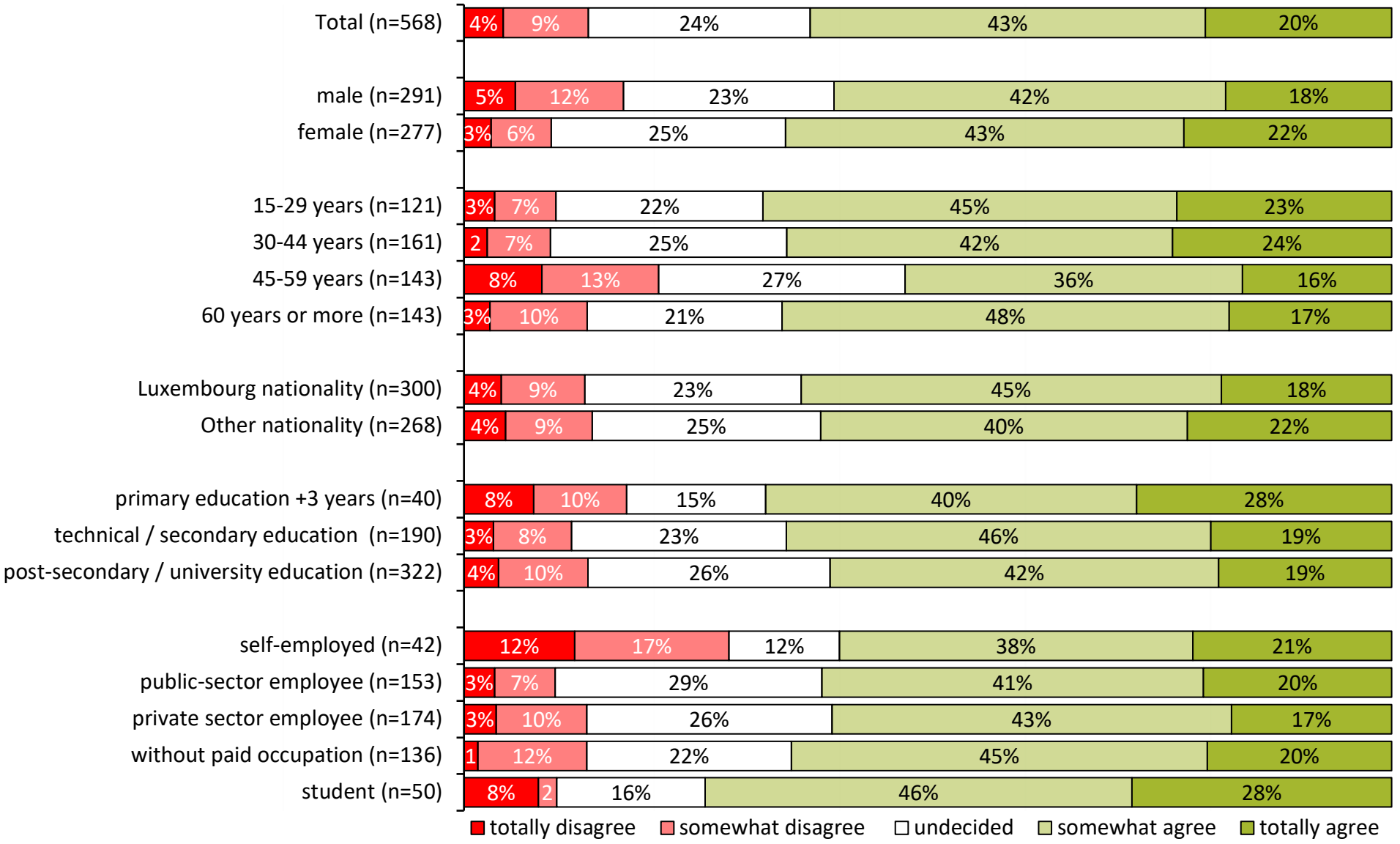
Q.402.3 **Scientists must speak out publicly when politics ignore the results of their research.**



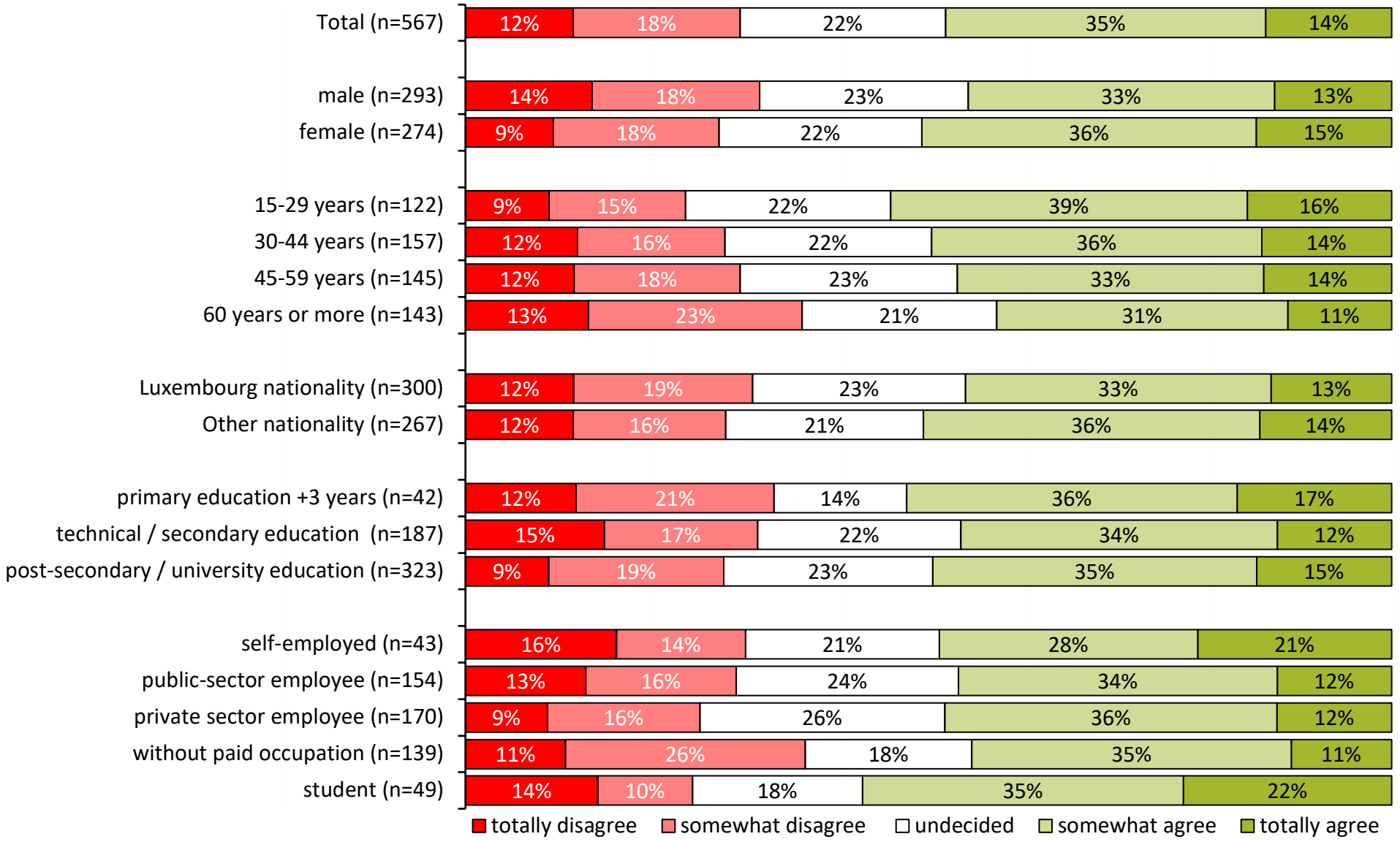
Q.402.1 **Political decisions should be based on scientific findings.**



Q.402.5 **Science and research should above all contribute to solving problems in society.**

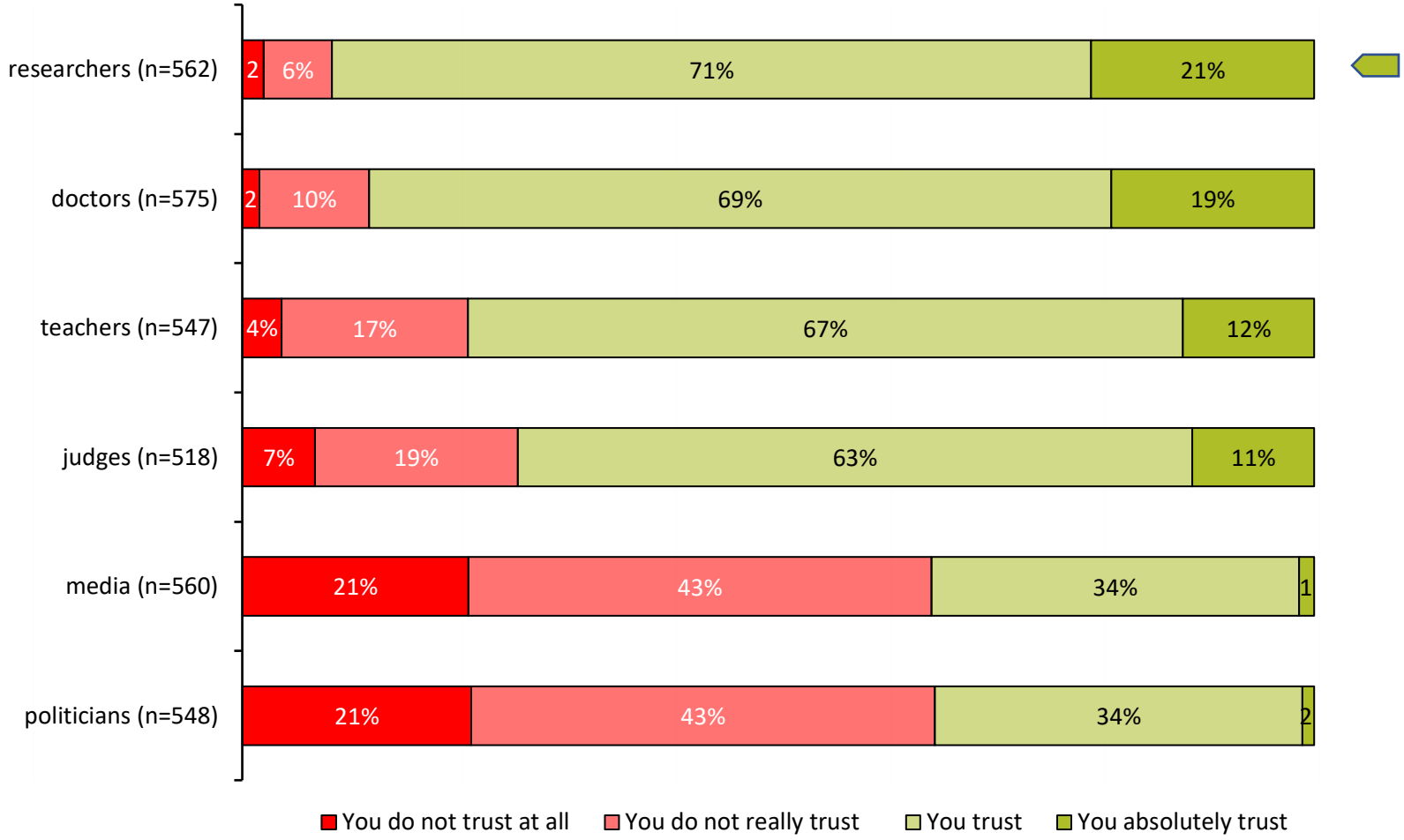


Q.402.4 **Scientists should be allowed to decide for themselves what they do research on.**

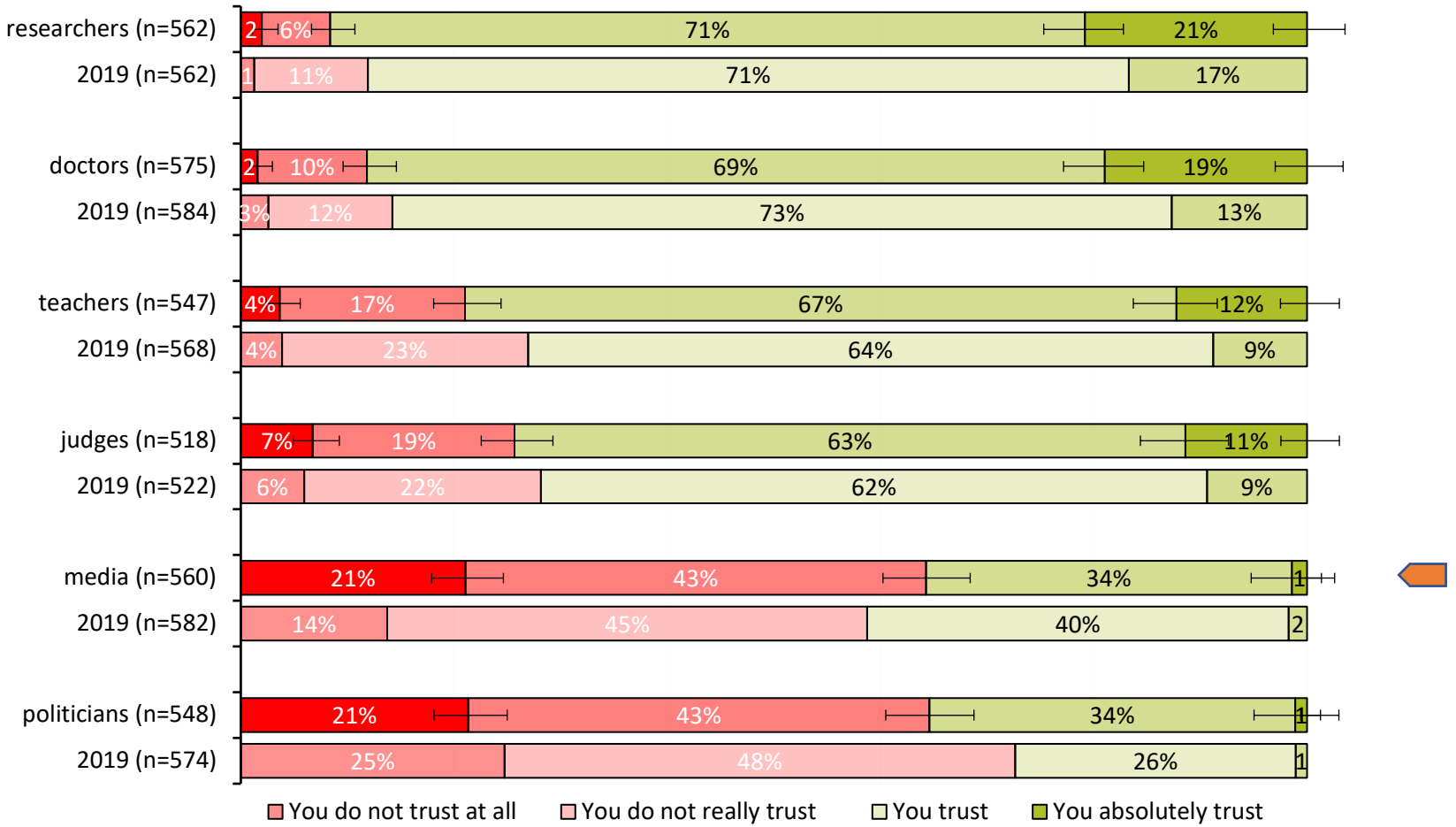


Q.402.2 **Scientists should also get involved and have a say in politics.**

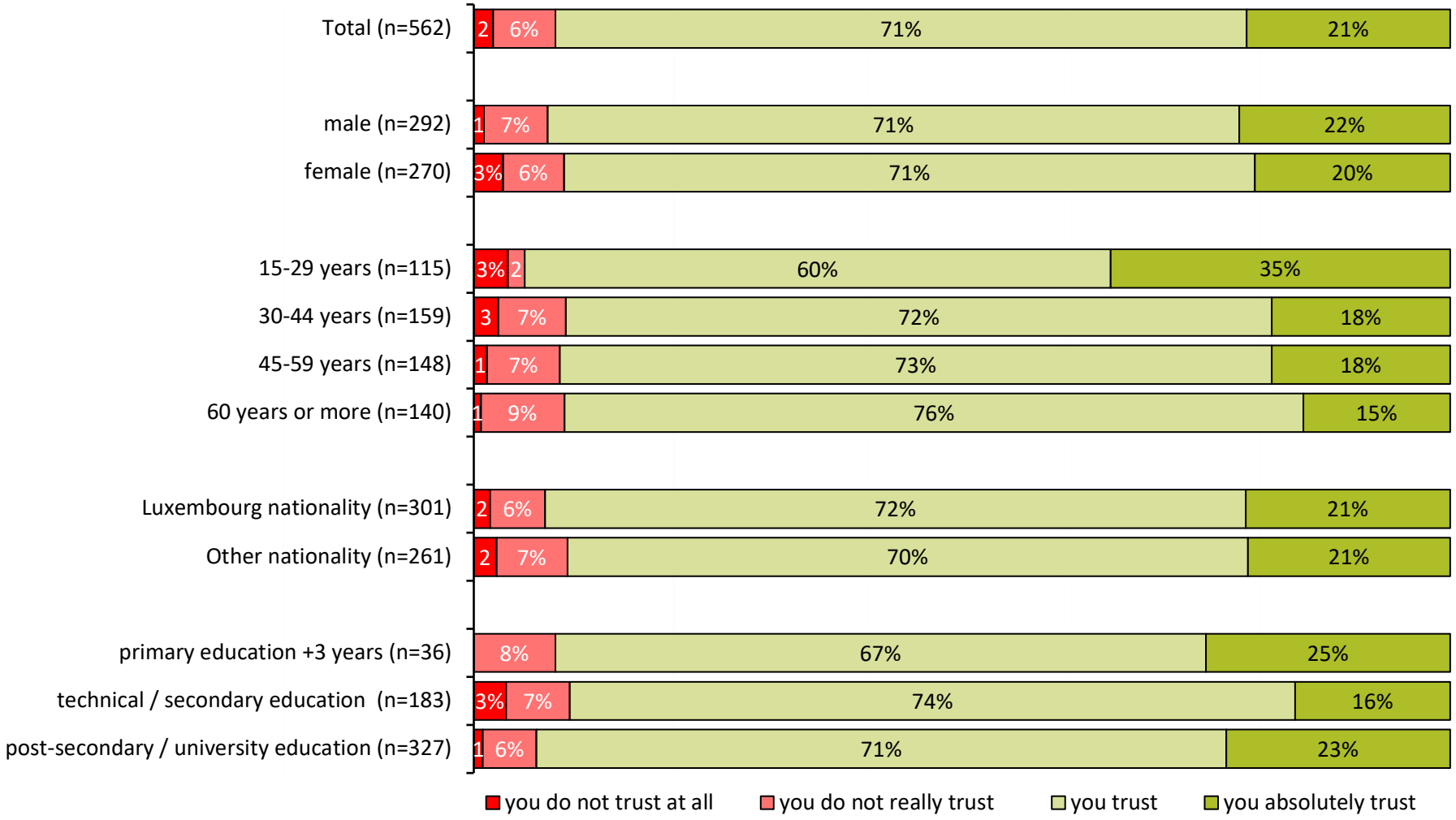
f.) trust in scientists and other playors



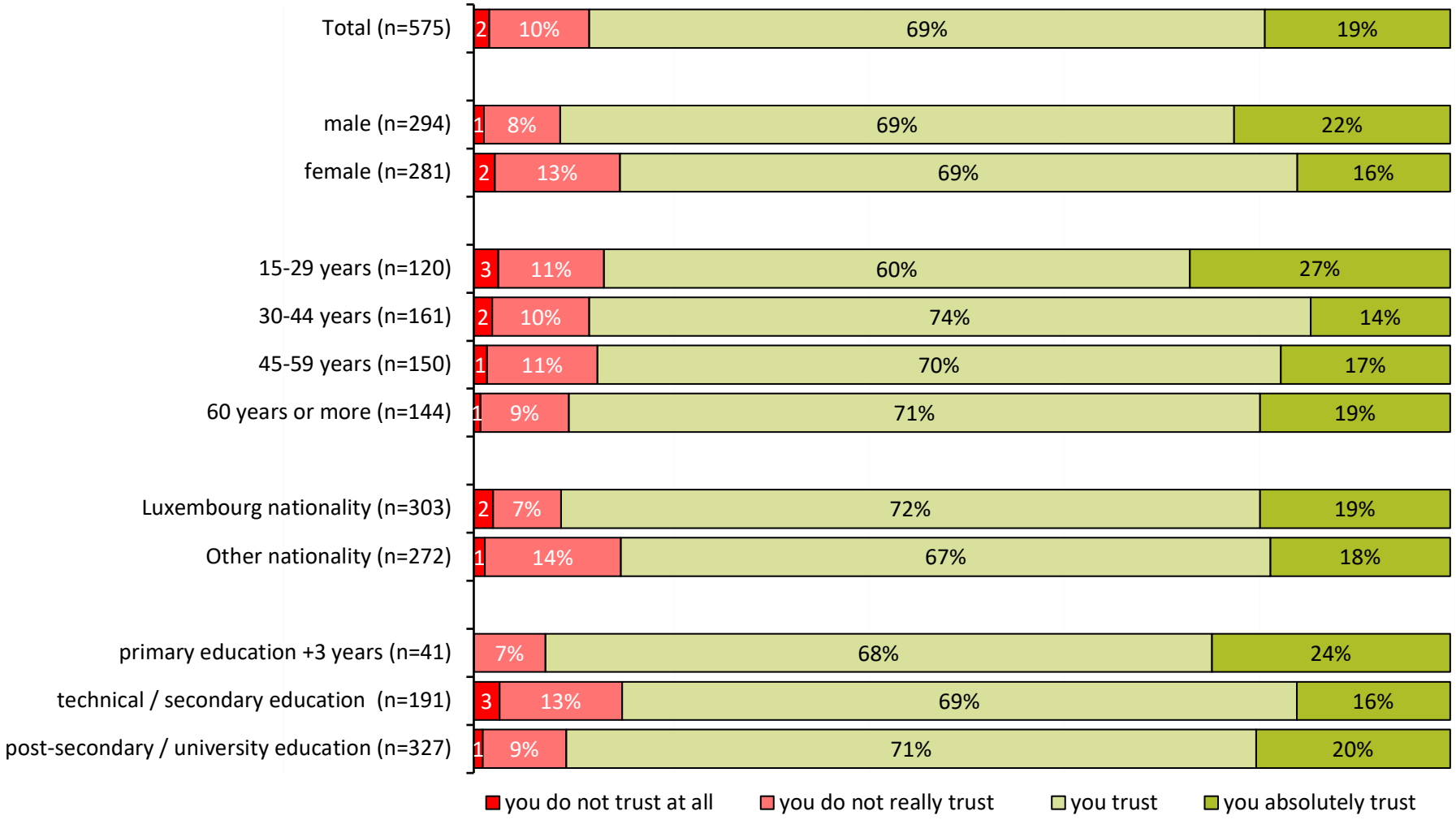
Q.403 What is your trust level in regards to ….. (n=600)



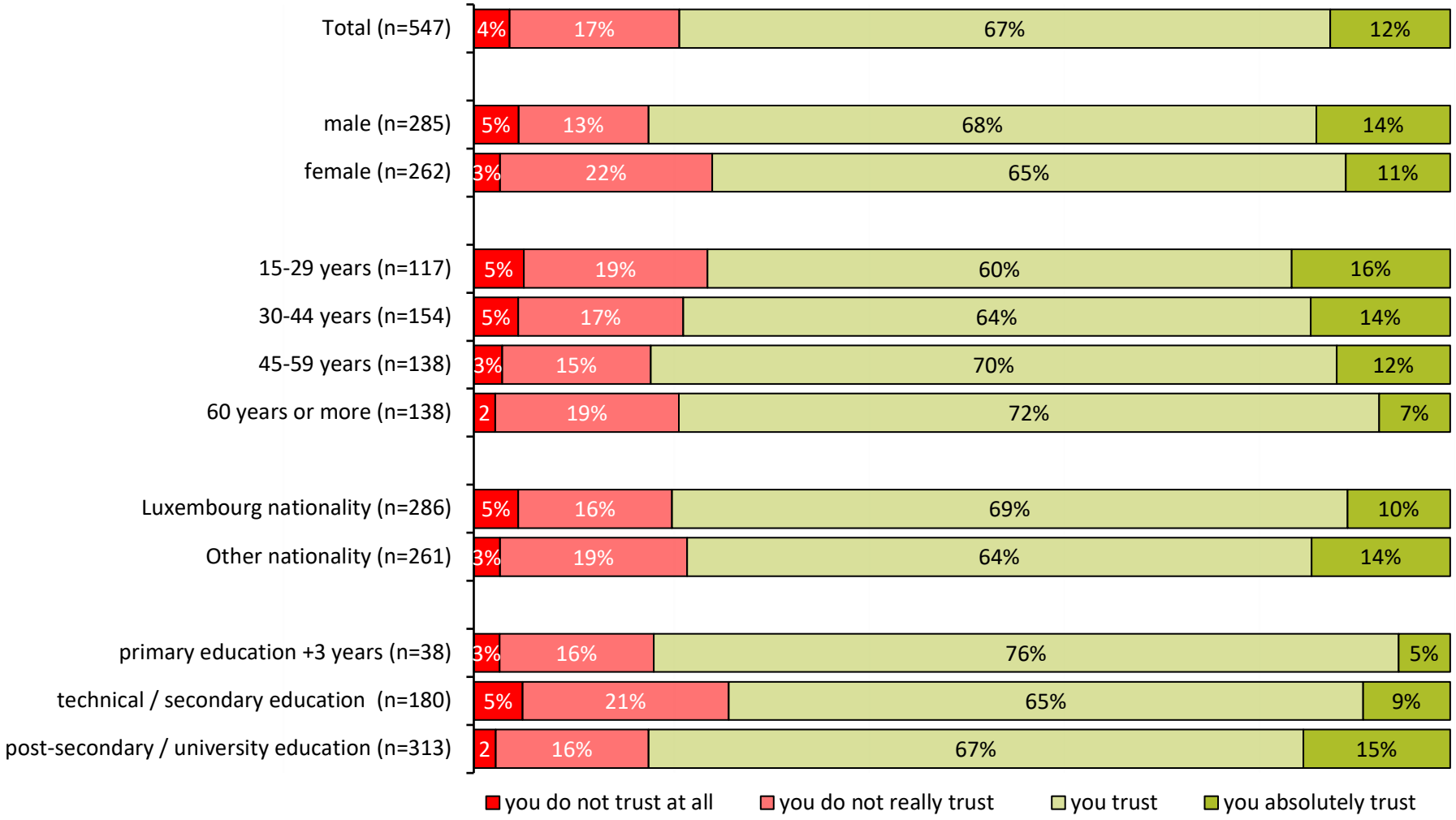
Q.403 What is your trust level in regards to .....
Comparative survey 2023 vs. 2019



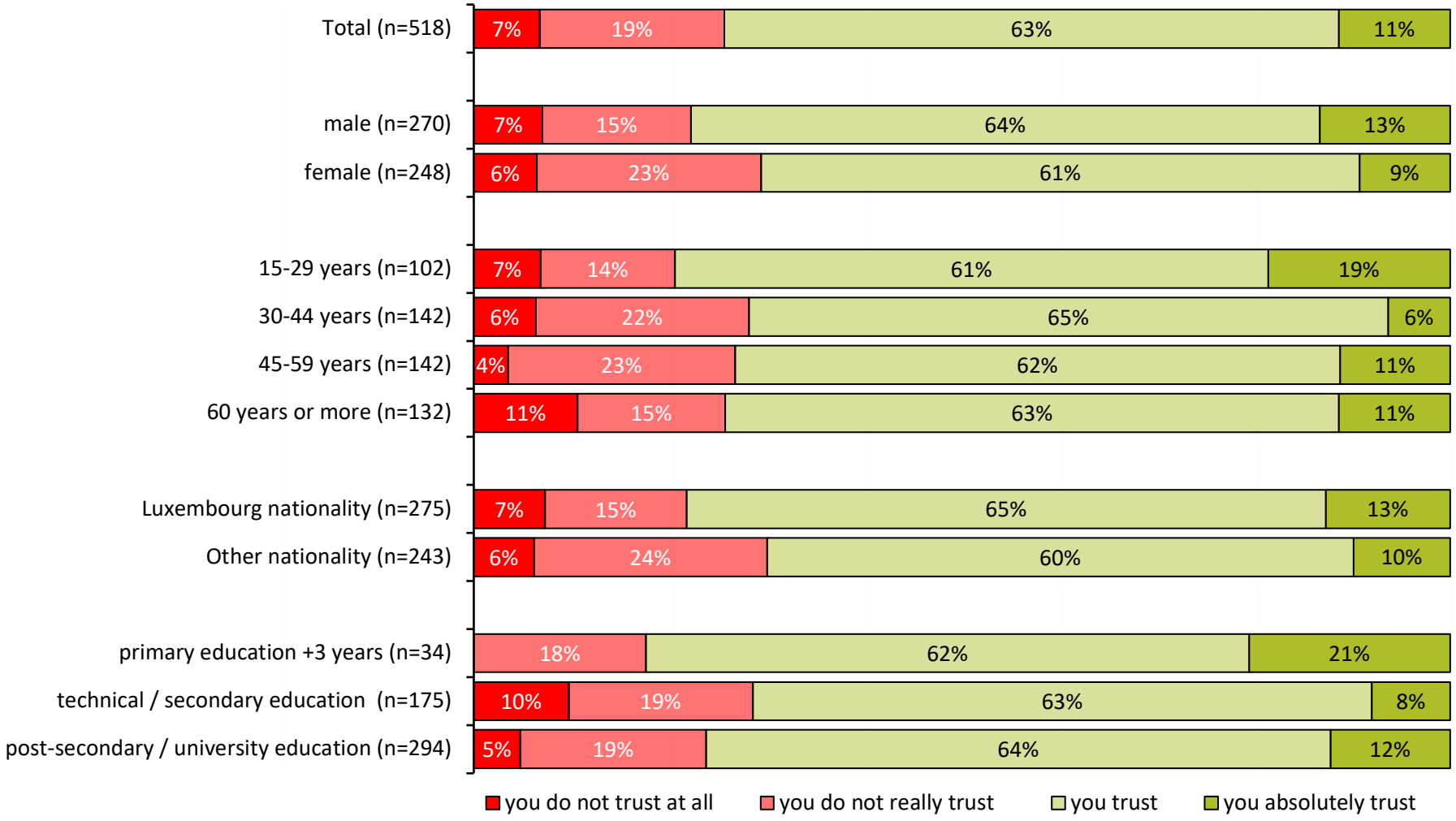
Q.403.5 **researchers**



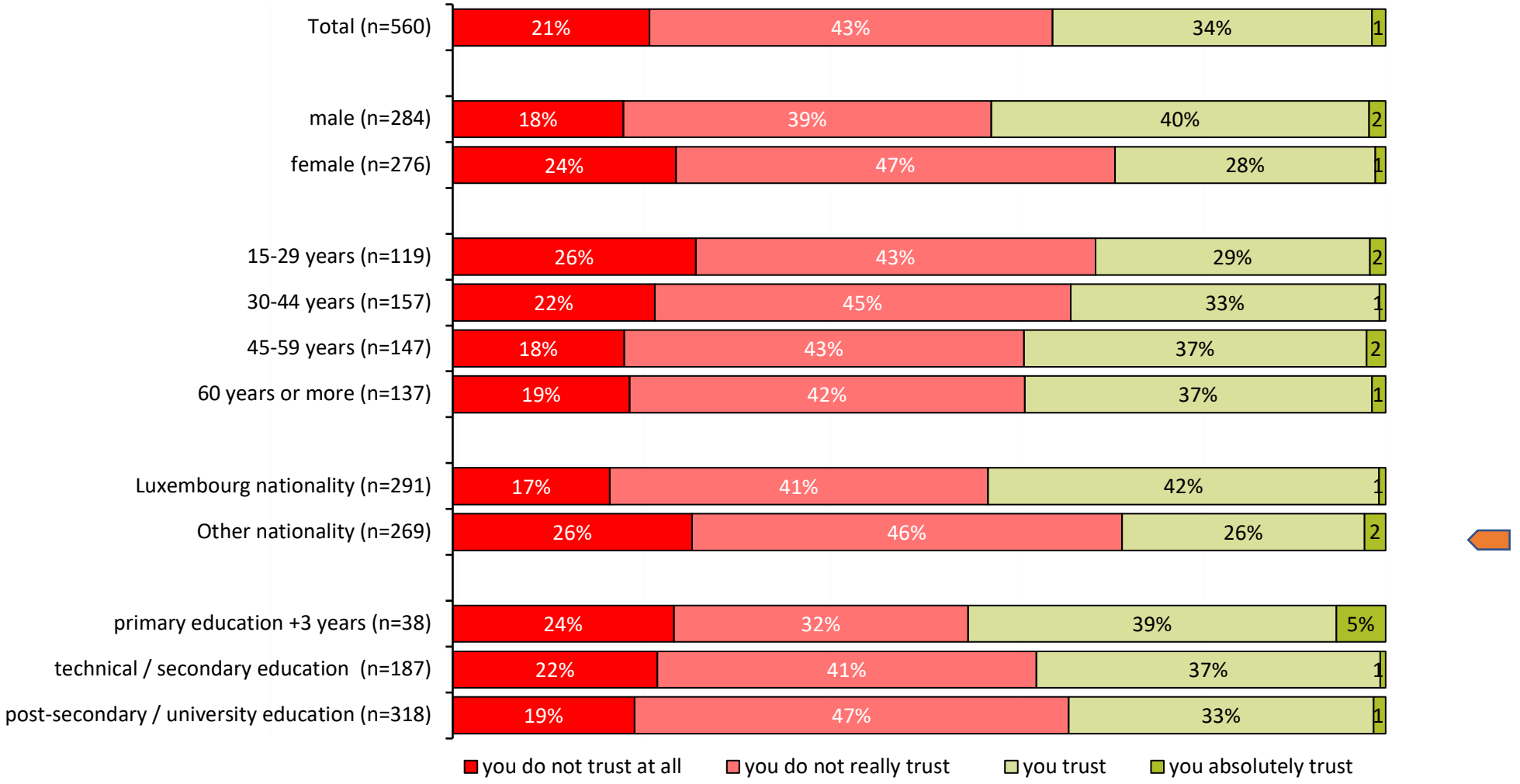
Q.403.5 **doctors**



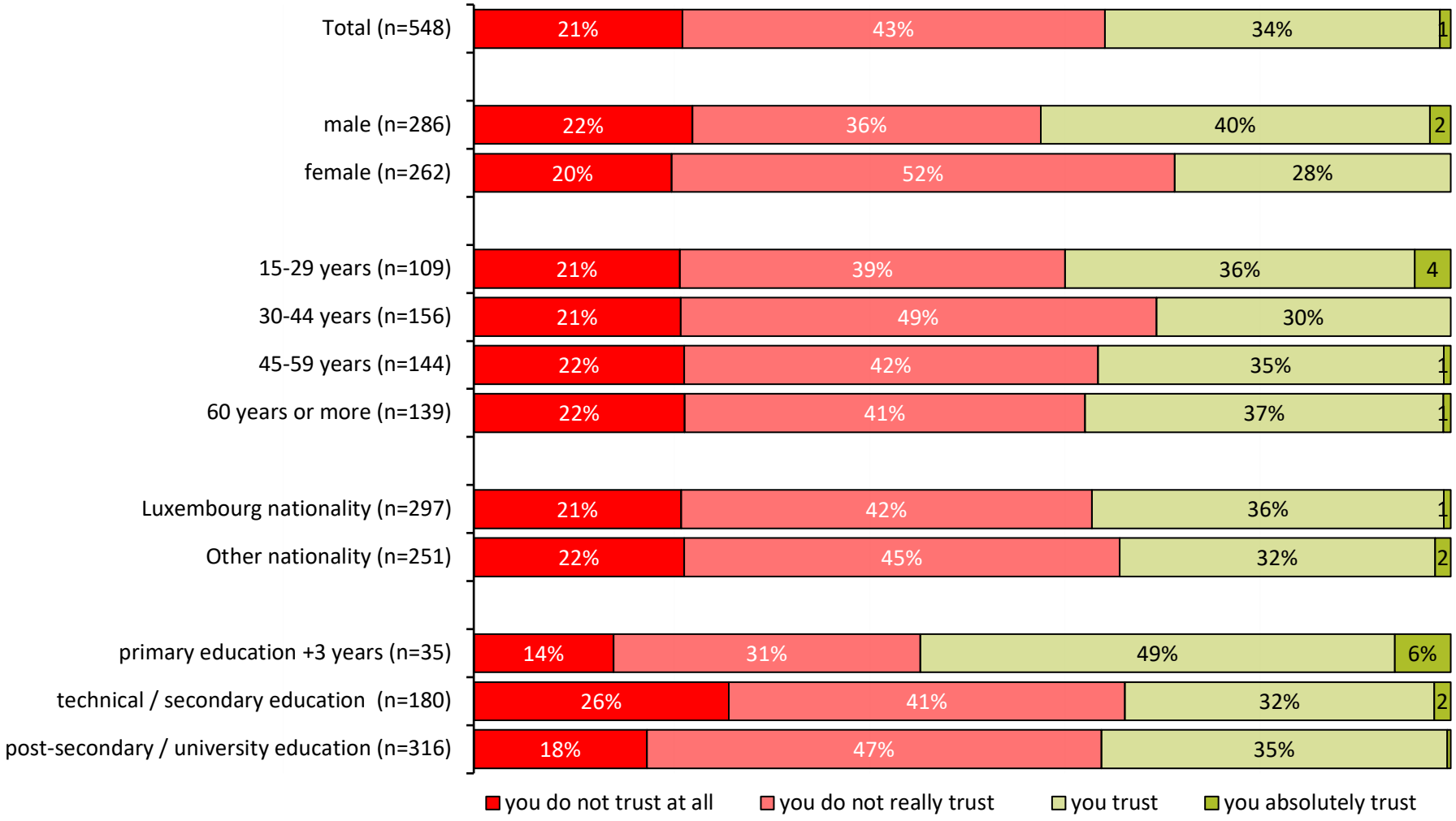
Q.403.6 **teachers**



Q.403.3 **judges**


Total (n=560)
21%
43%
34%
1
male (n=284)
18%
39%
40%
2
female (n=276)
24%
47%
28%
1
15-29 years (n=119)
26%
43%
29%
2
30-44 years (n=157)
22%
45%
33%
1
45-59 years (n=147)
18%
43%
37%
2
60 years or more (n=137)
19%
42%
37%
1
Luxembourg nationality (n=291)
17%
41%
42%
1
Other nationality (n=269)
26%
46%
26%
2
primary education +3 years (n=38)
24%
32%
39%
5%
technical / secondary education (n=187)
22%
41%
37%
1
post-secondary / university education (n=318)
19%
47%
33%
1
you do not trust at all
you do not really trust
you trust
you absolutely trust

Q.403.4 **media**



Q.403.1 **politicians**