

5G AWARENESS & NEEDS

EUROPEAN STUDY
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INTRODUCTION

1

CONTEXT OF THE RESEARCH



5G, a groundbreaking technology with a lot of potential in cellular communication, is currently rolled out in multiple markets across Europe, with Switzerland, UK and the Netherlands leading in number of networks.

5G deployment however leads to concerns, controversy and even strong resistance among some citizens in Europe.

NEWS

5G protesters sabotage Dutch phone towers

Opponents of the rollout of a new 5G data network have damaged and set alight several towers in the Netherlands. Activists have expressed concerns over possible health risks and privacy violations.

[f](#) [t](#) [r](#) [e](#) [+](#)

HOME > TECH

77 cell phone towers have been set on fire so far due to a weird coronavirus 5G conspiracy theory

Isabel Asher Hamilton May 6, 2020, 4:26 PM

[f](#) [t](#)



METHODOLOGY

SAMPLE DESCRIPTION



Adults (18-65 y.o.) in Europe

SAMPLE SIZE



n = 7350

QUOTA



For each country:

- Gender
- Age
- Region

DATA COLLECTION METHOD



Online on Ipsos panel

AVG. INTERVIEW DURATION



10 minutes

FIELDWORK PERIOD

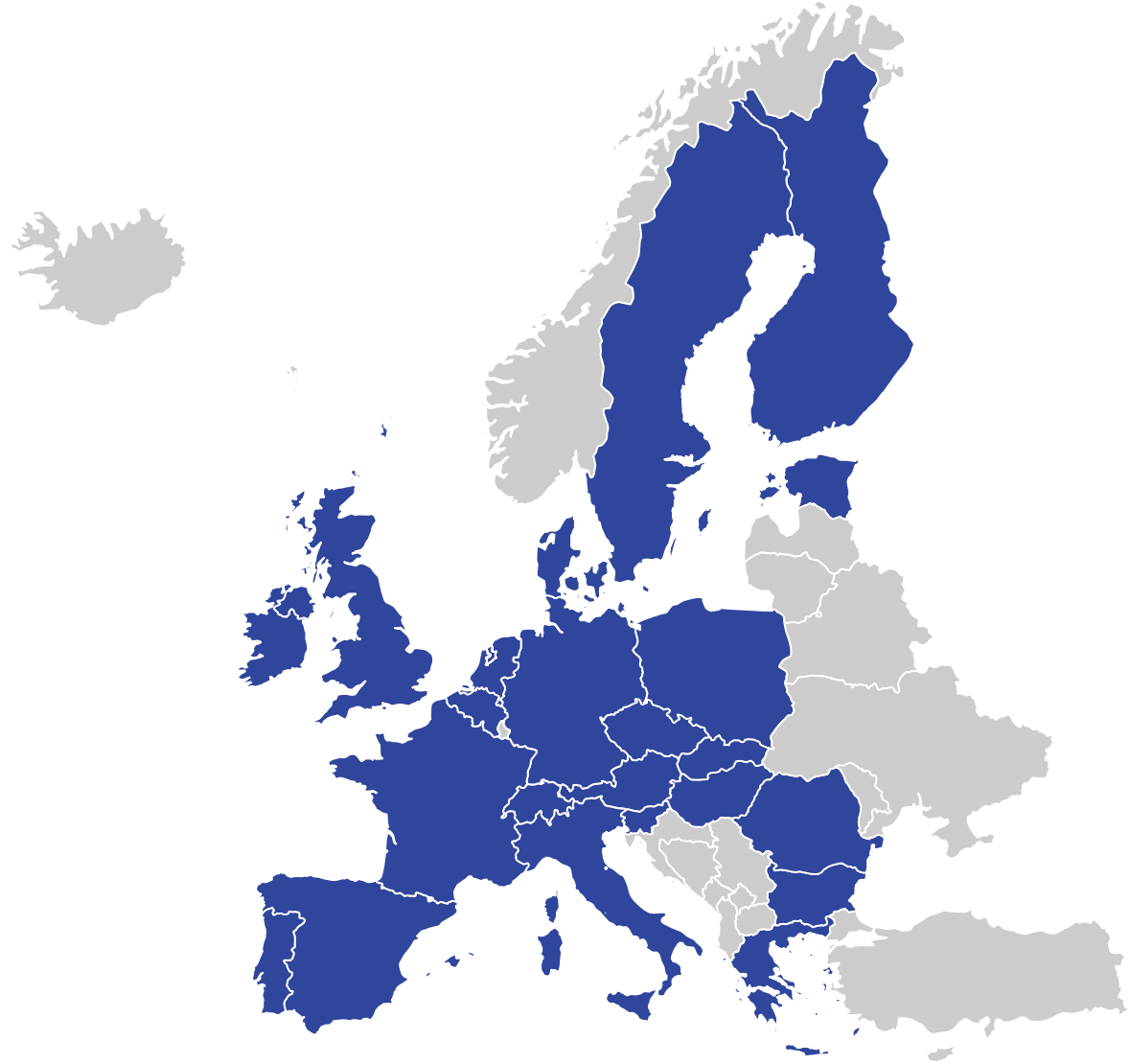


August 2020

GEOGRAPHICAL SCOPE

The study is conducted in 23 countries

- | | | | |
|----|----------------|----|-------------|
| 1 | Austria | 13 | Italy |
| 2 | Belgium | 14 | Netherlands |
| 3 | Bulgaria | 15 | Poland |
| 4 | Czech Republic | 16 | Portugal |
| 5 | Denmark | 17 | Romania |
| 6 | Estonia | 18 | Slovakia |
| 7 | Finland | 19 | Slovenia |
| 8 | France | 20 | Spain |
| 9 | Germany | 21 | Sweden |
| 10 | Greece | 22 | Switzerland |
| 11 | Hungary | 23 | UK |
| 12 | Ireland | | |



i Note: The data is weighted to the national representative figures of each country and to the population size of each country.

i EU27 countries that are not included in this survey are: Croatia, Cyprus, Latvia, Lithuania, Luxemburg, Malta and Norway.

i When looking at 'European' results, data is weighted according to the population size of the country.

RESULTS

2

AWARENESS & ATTITUDES TOWARDS 5G

2.1

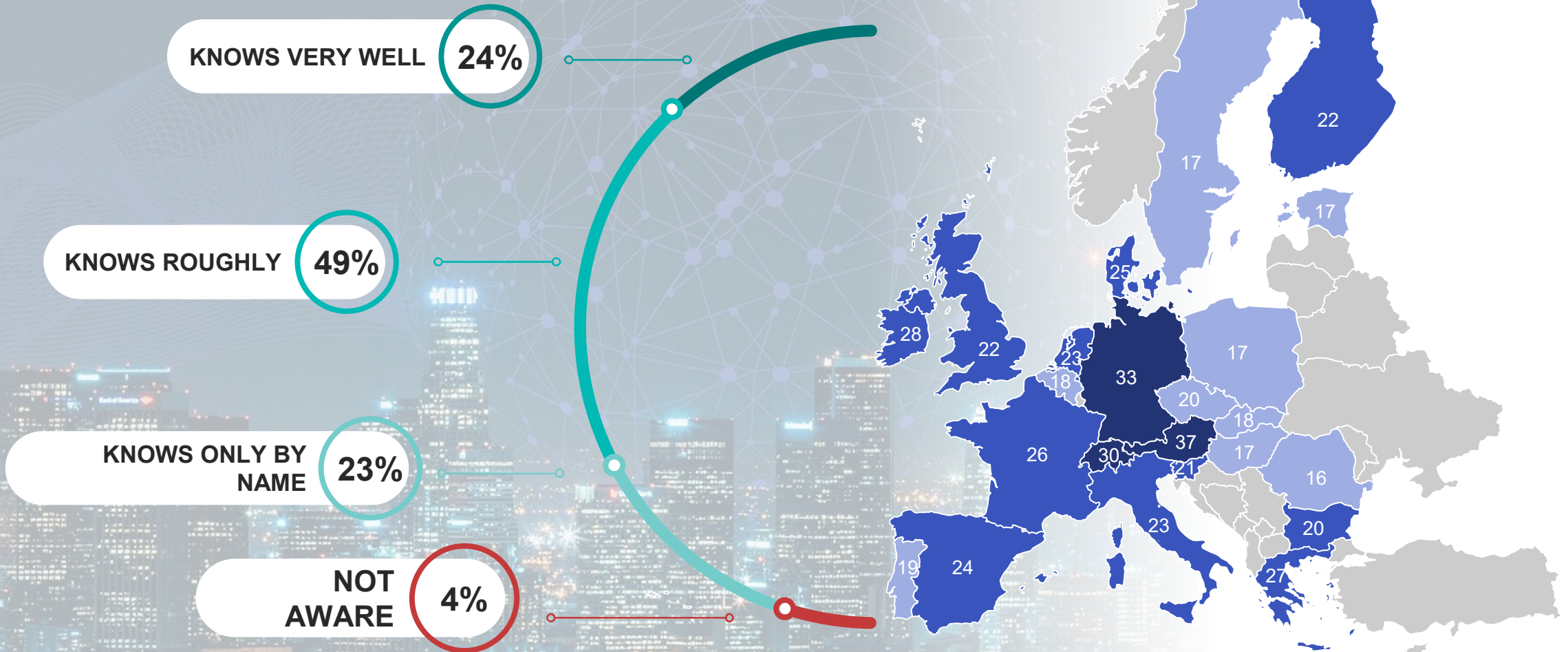
2. Results

AWARENESS

Almost all Europeans have heard about 5G, however only 1 out of 4 Europeans claim to have a good understanding about 5G.

AWARENESS OF 5G IN EUROPE

Almost all Europeans have heard about 5G, however only 1 out of 4 Europeans claim to have a good understanding about 5G.

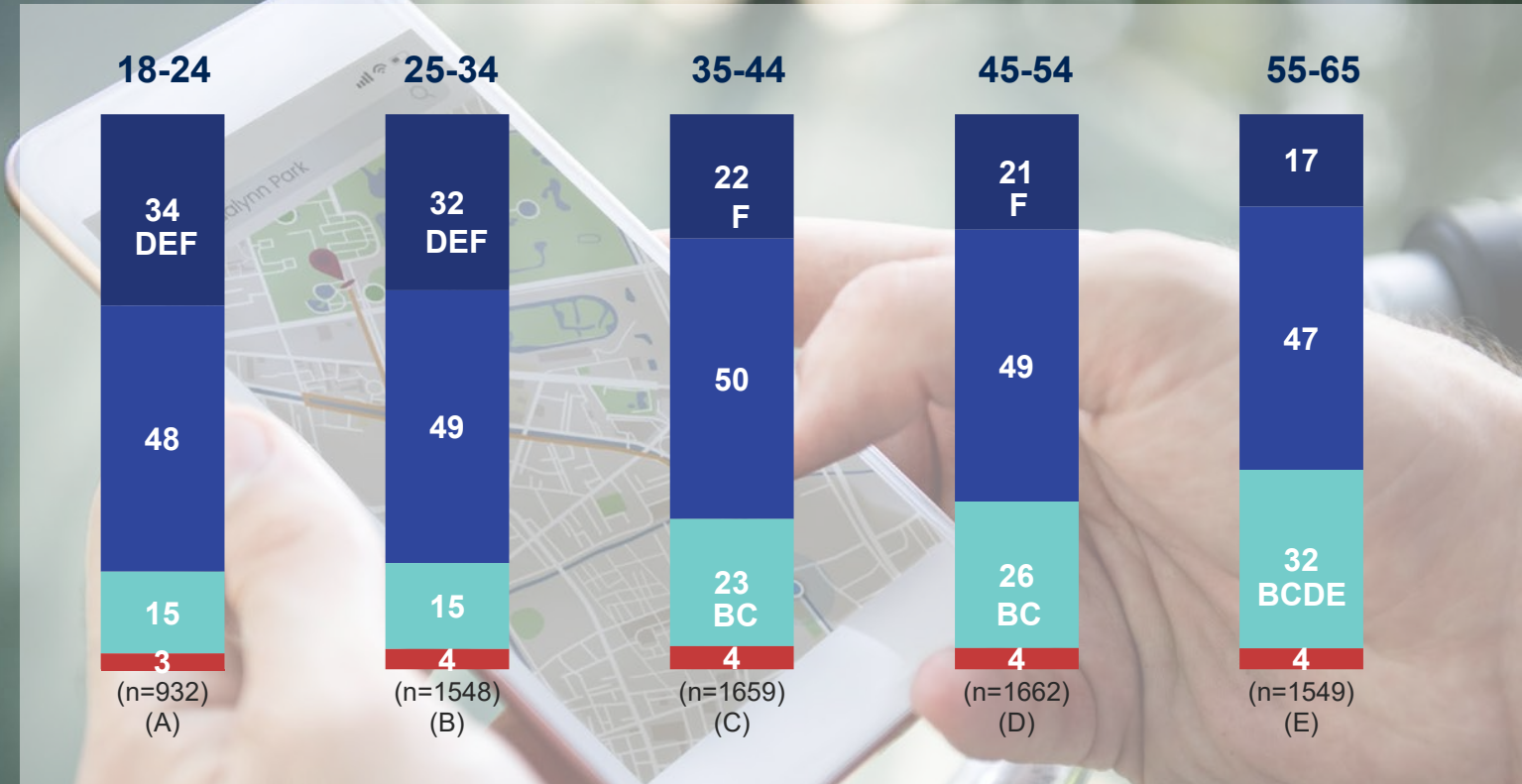


A1. Have you heard about the mobile technology 5G?
 Yes, and I know very well what it is
 Yes, and I know roughly what it is
 Yes, but only by name
 No, I haven't heard about it

- >30% knows 5G very well
- 20-30% knows 5G very well
- <20% knows 5G very well

AWARENESS OF 5G BY AGE

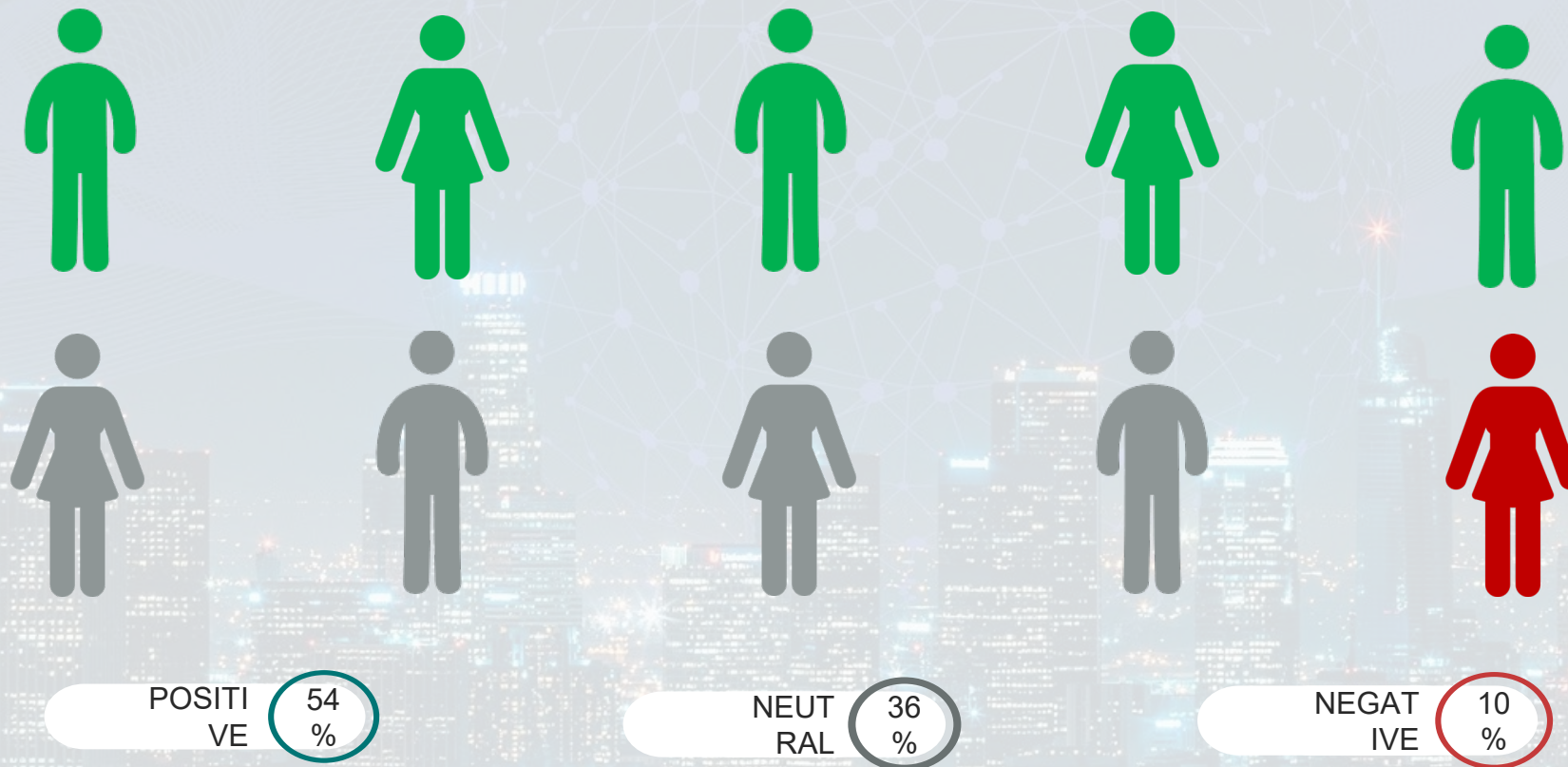
Younger Europeans have a higher real understanding of 5G than older (45+) citizens



- Yes, and I know very well what it is
- Yes, and I know roughly what it is
- Yes, but only by name
- No, I haven't heard about it

i A letter next to the value means that this value is significantly higher compared to the column the letter is referring to (95% confidence)

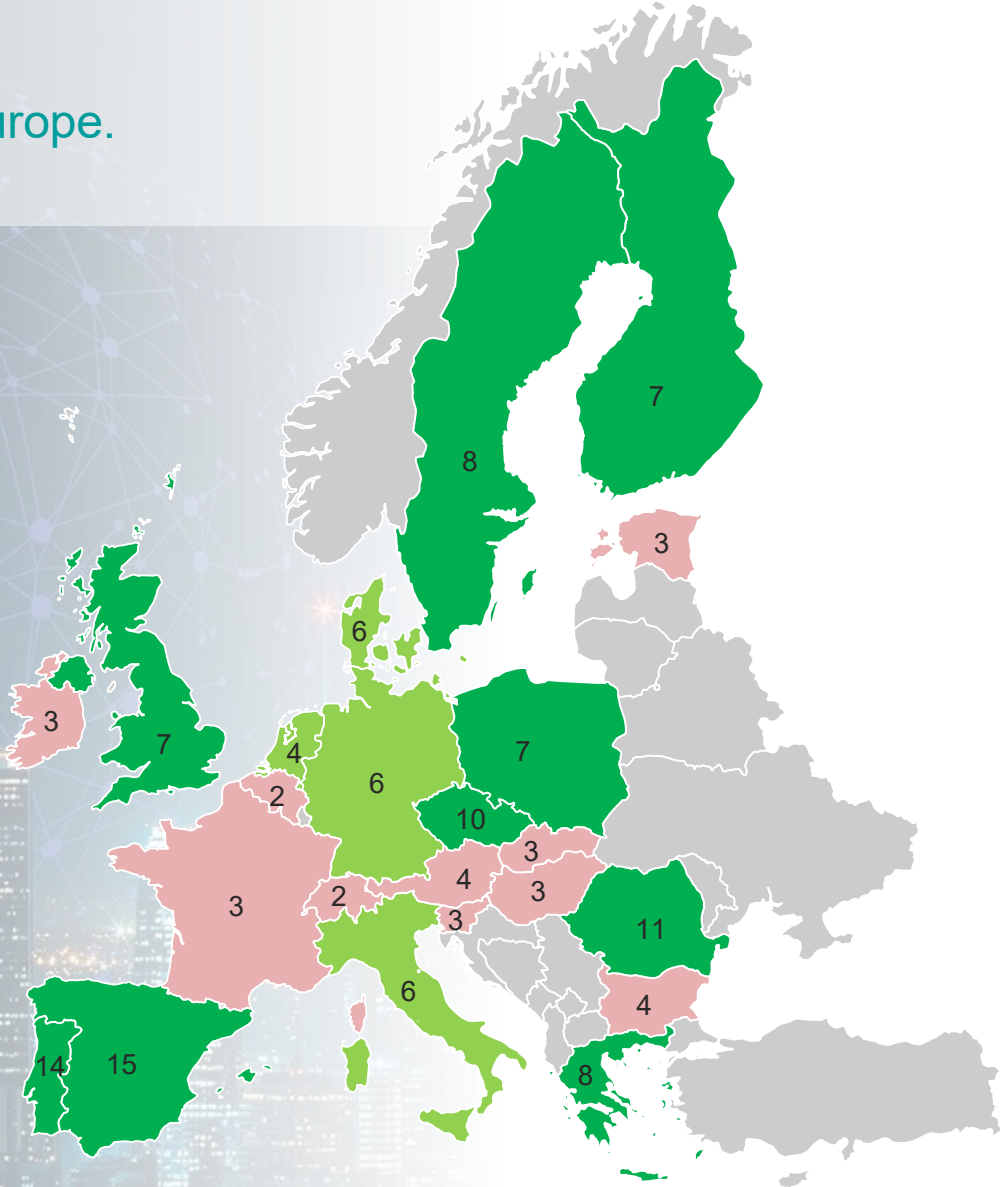
FOR EVERY EUROPEAN NEGATIVE ABOUT 5G... THERE ARE 5,5 POSITIVE ABOUT 5G



POSITIVES / NEGATIVES RATIO 5G

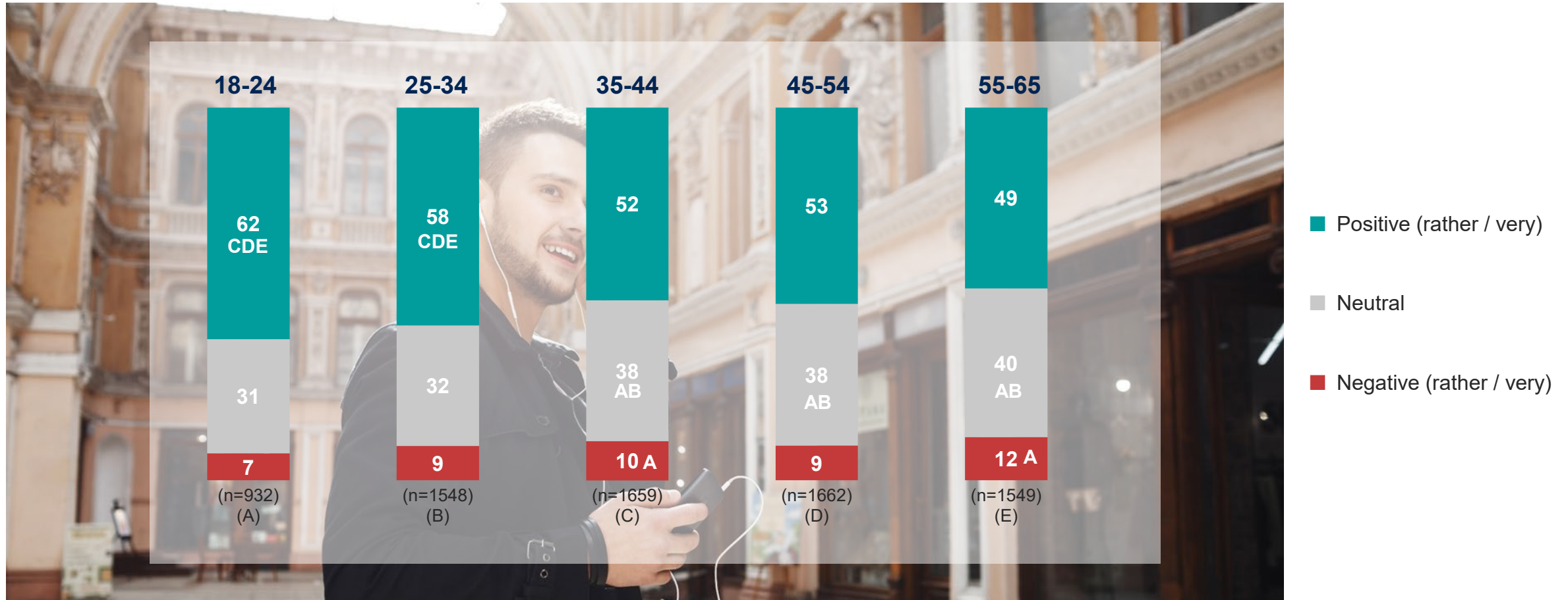
The positives / negatives ratio varies a lot between countries in Europe.

Positive / negative ratio: 5,5



ATTITUDE TOWARDS 5G BY AGE

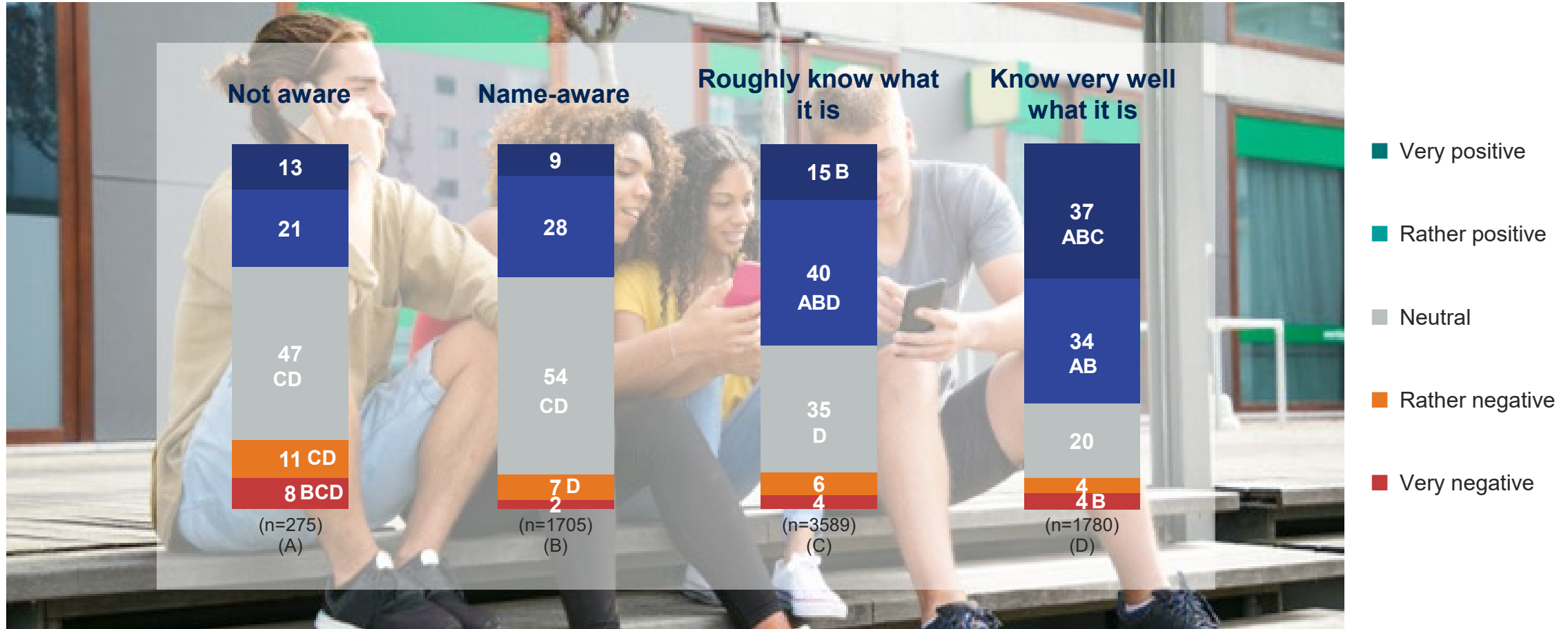
Younger Europeans have a more positive attitude towards 5G. On the other hand, older Europeans are more often neutral towards 5G.



i A letter next to the value means that this value is significantly higher compared to the column the letter is referring to (95% confidence)

ATTITUDE TOWARDS 5G BY AWARENESS

Attitude towards 5G correlates strongly with having a good understanding about 5G.



i A letter next to the value means that this value is significantly higher compared to the column the letter is referring to (95% confidence)

5G MYTHS

**A minority of Europeans believe the 5G
“myths”.**

**However a substantial amount of
Europeans is not sure that the myth is not
true.**

ATTITUDE TOWARDS 5G MYTHS

50-60% of the Europeans are unsure about some of the 5G myths, and about one out of five, seems to believe the myths.

■ True ■ False ■ Not sure

5G has nothing to do with COVID-19



5G doesn't have a negative impact on the environment



5G radiation is harmless for bees



5G will guarantee my privacy



HEALTH RISKS

The majority of the Europeans is (somewhat) concerned about health risks related to 5G, also amongst those who are positive towards 5G.

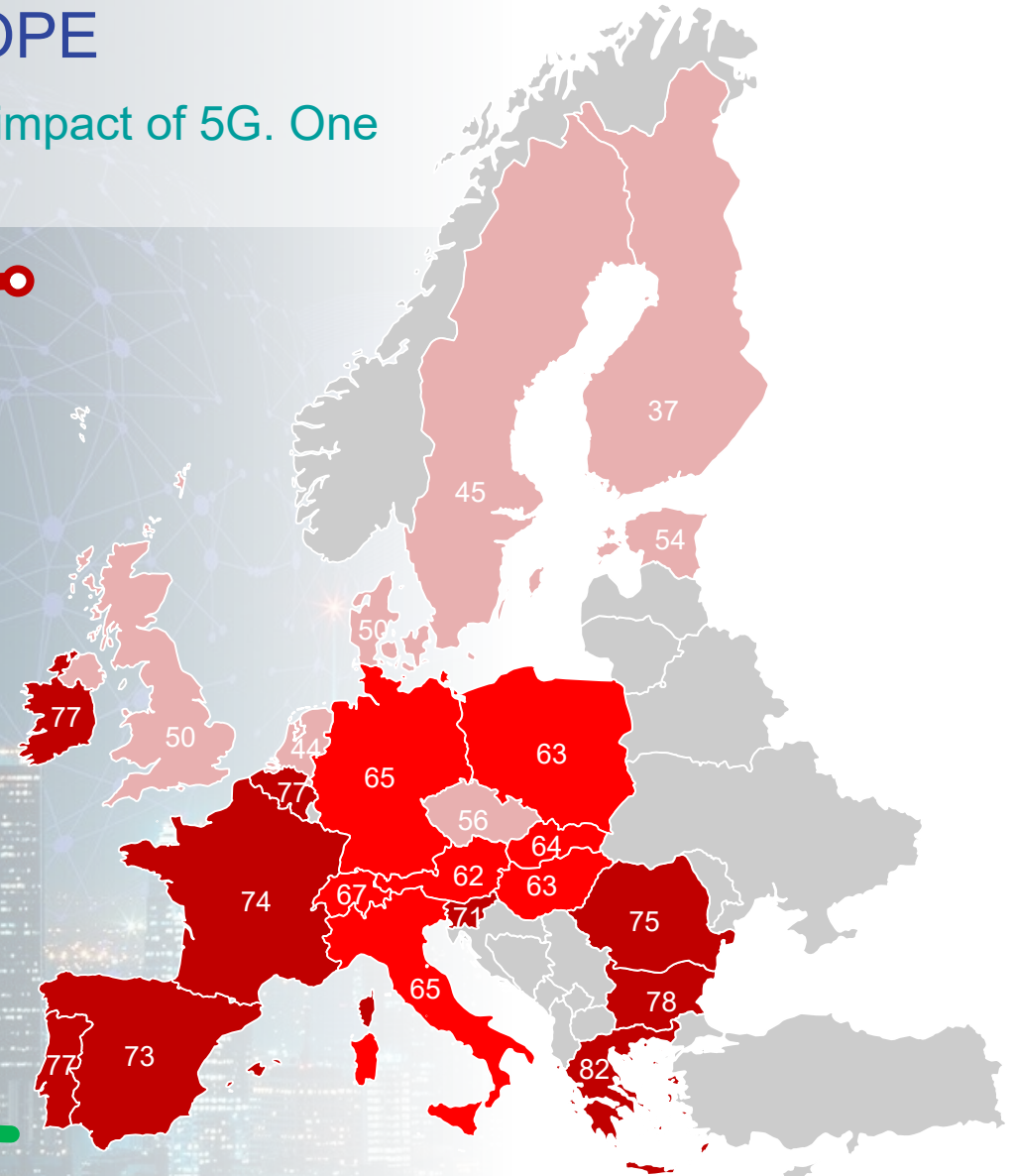
HEALTH CONCERN RELATED TO 5G IN EUROPE

65% of Europeans is at least slightly concerned about the health impact of 5G. One out of four indicates being 'very concerned'.

VERY CONCERNED 25%

SLIGHTLY CONCERNED 39%

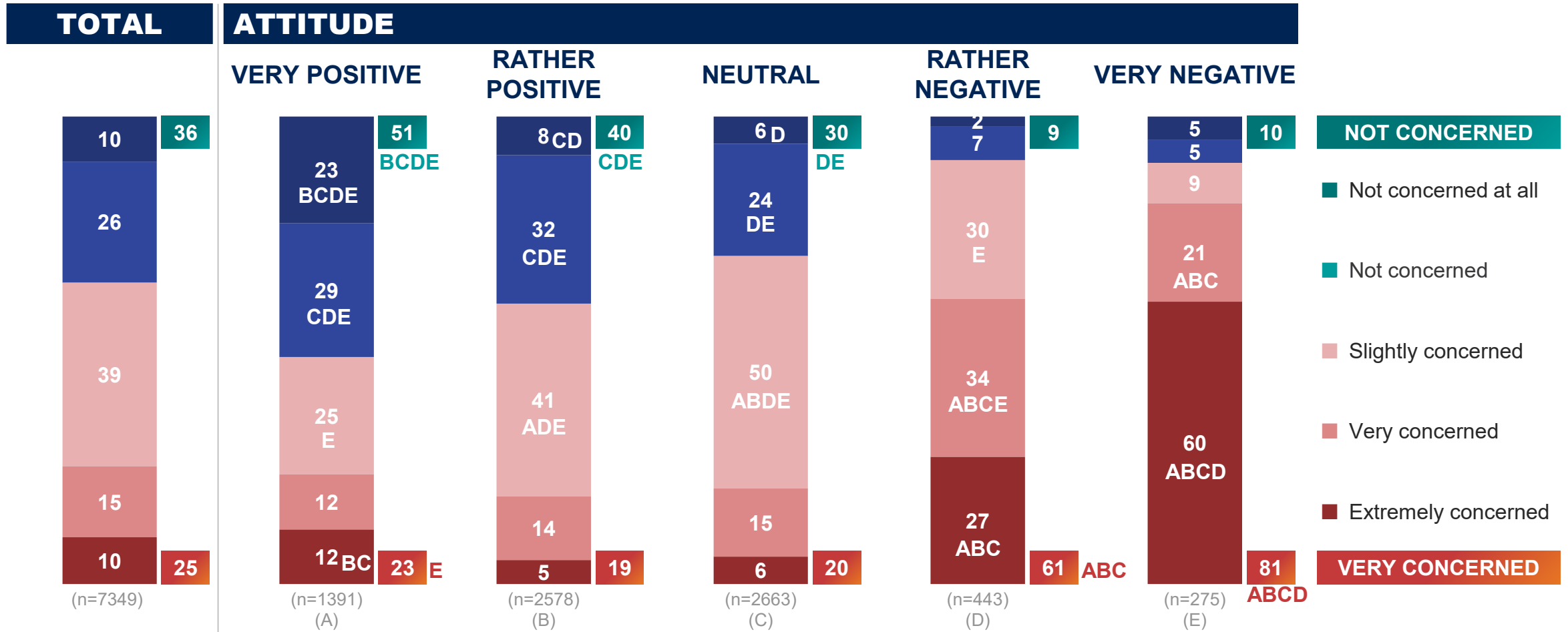
NOT CONCERNED 35%



- > 70% is slightly concerned
- 60-70% is slightly concerned
- < 60% is slightly concerned

HEALTH CONCERN VS ATTITUDE TOWARDS 5G

Even amongst Europeans having a very positive attitude towards 5G, we still see about one out of two being (somewhat) concerned about their health in relation to 5G



Base:
Question:

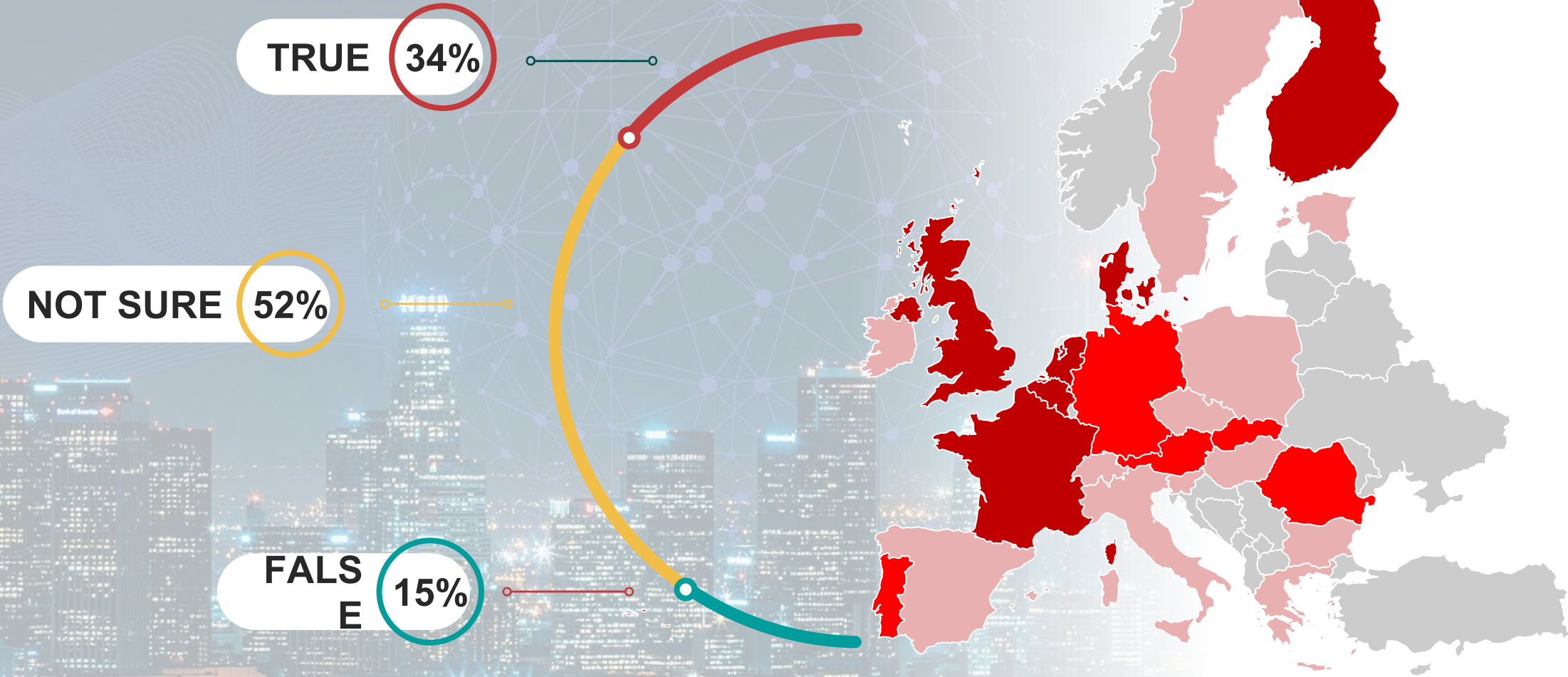
Total European sample (n=7349)
S6. To what extent are you concerned that 5G might have a negative impact on your health?

PRICE INCREASES?

A third of Europeans think 5G will make mobile data more expensive.

MOBILE DATA WILL BE MORE EXPENSIVE

Most Europeans are not sure whether 5G will make mobile networks more expensive. Those who form an opinion think mostly that 5G will make mobile data more expensive.



COMMUNICATION

2.2

2. Results

COMMUNICATION

Social media and advertisements are the least trusted information channels about 5G. The number of information sources, and the degree of being informed, has a high impact on the attitude of 5G.

SOURCES USED FOR INFORMATION ABOUT 5G

Europeans mostly heard or learned about 5G from traditional media, news websites and social media. Only 8% of the Europeans learned about 5G from their government.

Used sources to learn about 5G



21

%

COMMUNICATION FROM TELECOM PROVIDERS

8

%



COMMUNICATION FROM THE GOVERNMENT

Used channels to learn about 5G



45%

TRADITIONAL MEDIA (TV, RADIO, NEWSPAPERS, MAGAZINES, ...)



29%

SOCIAL MEDIA (E.G. FACEBOOK, TWITTER, INSTAGRAM, ...)



24%

FRIENDS, FAMILY, COLLEAGUES, ...



11%

ONLINE FORUMS OR BLOGS (E.G. REDDIT, QUORA, TUMBLR, LOCAL BLOGS, ...)



%

NEWS WEBSITES



24%

WEBSITES ABOUT TECHNOLOGY

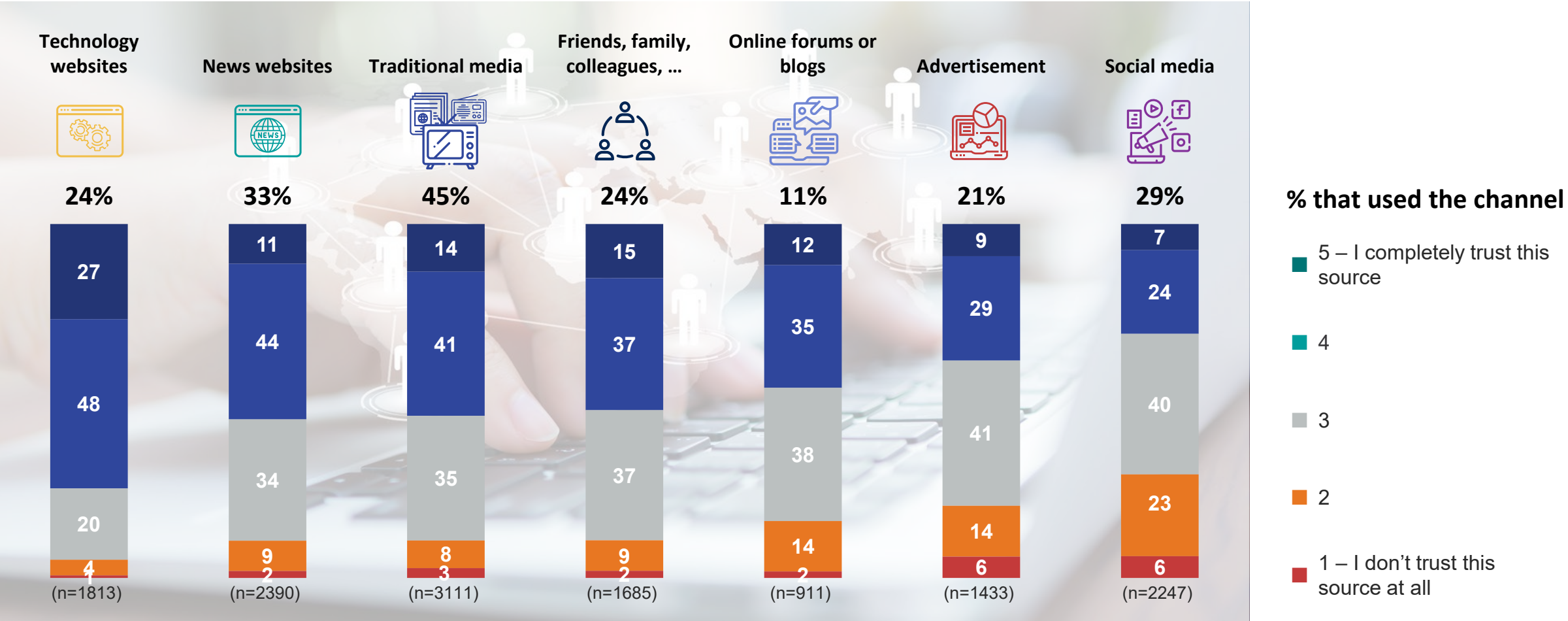


21%

ADVERTISEMENT

TRUST IN SOURCES

Technology websites have the highest level of trust for information about 5G. Advertisements and social media are the least trusted sources.



Base: Total European sample (n=7350)
 Question: A5. To what extent do you trust the information about 5G from this source?

TRUST IN SOURCES

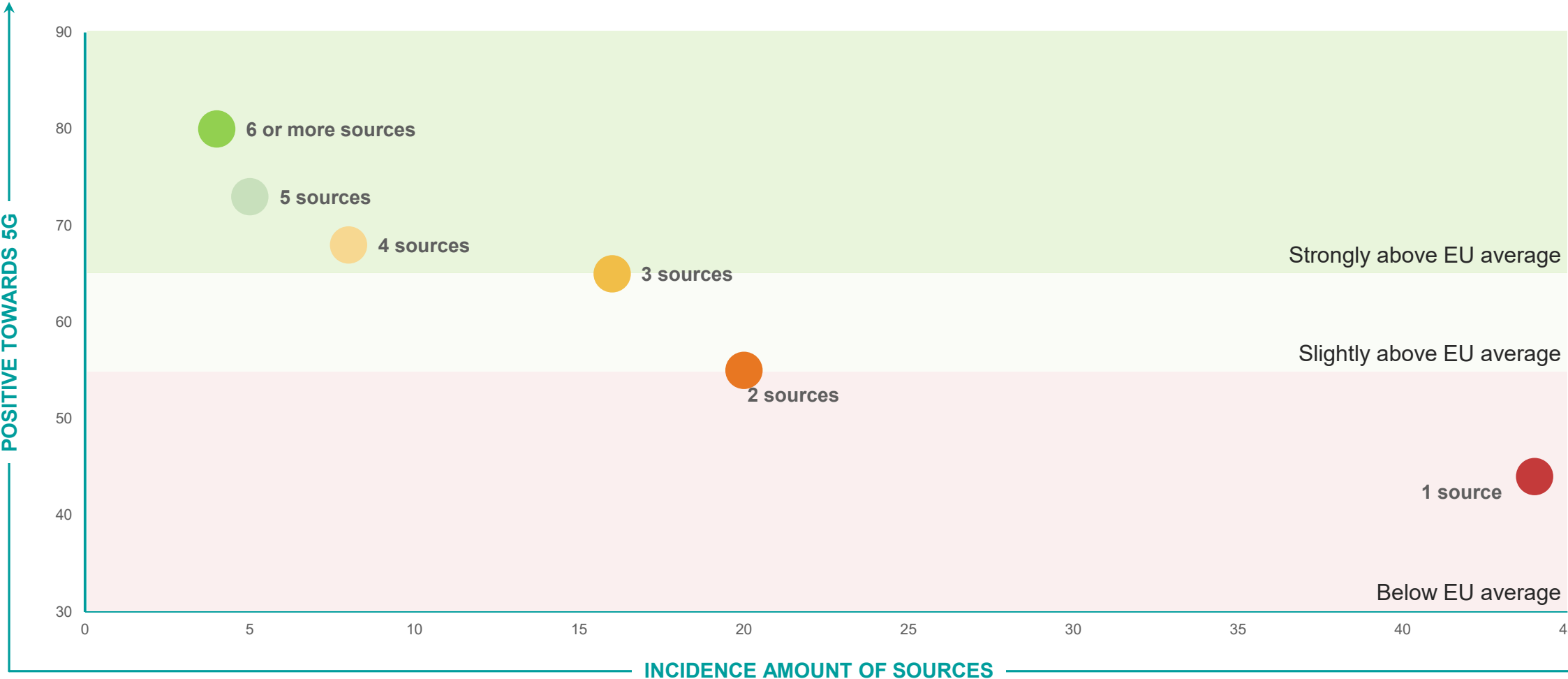
The government and telecom providers are seen as quite trusted sources regarding information about 5G



Base: Total European sample (n=7350)
Question: A5. To what extent do you trust the information about 5G from this source?

IMPACT OF NUMBER OF SOURCES ON ATTITUDE TOWARDS 5G

The more you educate people, the more they hear (positive) information about 5G, the better the attitude towards 5G.



Base: Total European sample (n=7350)
Question: A4. Where have you heard or learned about 5G? / A5. To what extent do you trust the information about 5G from this source? / A6. What is your current opinion about 5G?

ADVANTAGES OF 5G

2.3

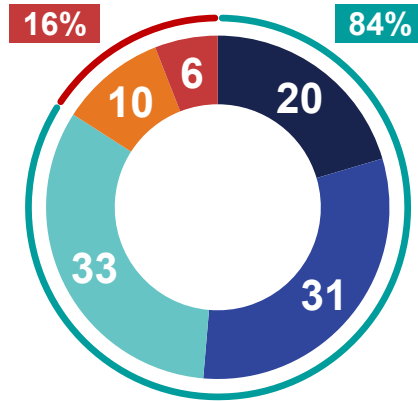
2. Results

ADVANTAGES

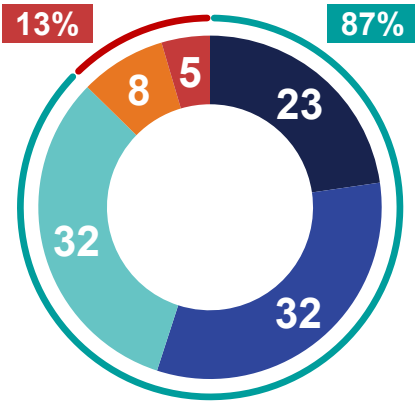
Higher speed and higher capacity are the most known 5G advantages over 4G. Europeans with a better understanding of 5G are better aware that 5G enables new technologies, possibilities.

IMPORTANCE

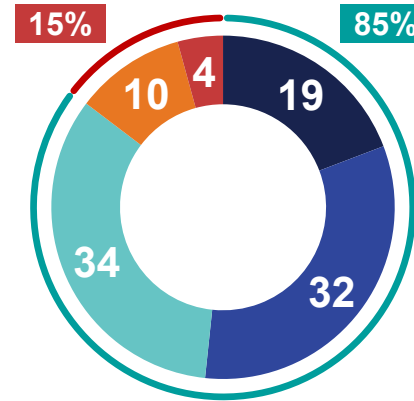
While Europeans think '5G' will be important for business, development of innovations, they are much less convinced about it becoming important for their personal day to day lives.



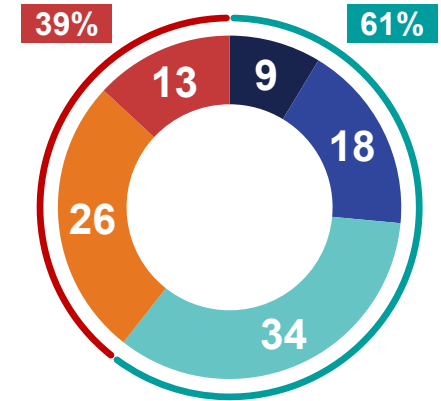
FUTURE



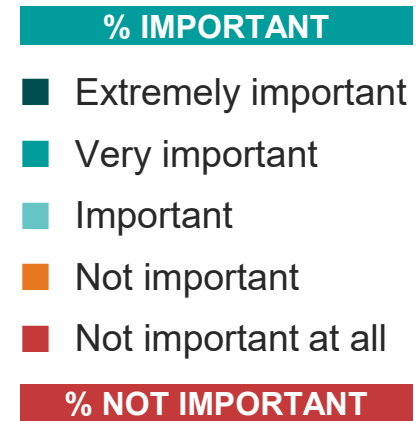
INNOVATIONS



COMPANIES/BUSINESSES



DAY-TO-DAY LIFE



PERCEIVED ADVANTAGES OF 5G BY AWARENESS

Higher speed and capacity are the most known advantages. The new technologies that 5G can enable are better known by Europeans who have a good understanding of 5G.

	TOTAL	AWARENESS		
	(n=7061)	KNOWS VERY WELL 24% of Europeans (n=1669) – (A)	KNOWS ROUGHLY 49% of Europeans (n=3598) – (B)	NAME AWARE 23% of Europeans (n=1793) – (C)
5G is faster than 4G	69	75 C	75 C	50
5G has a higher capacity compared to 4G	49	57 BC	53 C	32
5G has a lower latency compared to 4G (faster reaction time)	36	48 BC	39 C	17
5G is more stable than 4G	32	41 BC	34 C	20
5G will enable connected vehicles and autonomous driving and other industrial applications	30	45 BC	30 C	13
5G will be able to support virtual reality and augmented reality	29	41 BC	31 C	14
More devices will be able to use the mobile network (e.g. sensors)	27	36 BC	29 C	13
5G will enable remote healthcare	18	30 BC	18 C	7
Don't think it has advantages over 4G	4	4	4	4
Don't know	11	2	6 A	32 AB

SUMMARY

3

IN SUMMARY

- 1** AWARENESS IS HIGH, BUT REAL UNDERSTANDING OF 5G IS LOW.
- 2** ATTITUDE TOWARDS 5G IS GENERALLY POSITIVE, YET 10% IS NEGATIVE.
- 3** MAJORITY OF EUROPEANS AREN'T CONFIDENT ENOUGH TO COMPLETELY RULE OUT 5G MYTHS.
- 4** ALMOST TWO OUT OF THREE IS CONCERNED ABOUT THE HEALTH IMPACT OF 5G. EVEN AMONGST THE 5G POSITIVES, ONE OUT OF TWO IS AT LEAST SLIGHTLY CONCERNED.
- 5** A THIRD OF CITIZENS ALREADY THINK 5G WILL LEAD TO PRICE INCREASES.
- 6** COMMUNICATION FROM GOVERNMENT & TELECOM OPERATORS BENEFITS FROM A HIGH LEVEL OF TRUST IN THE SOURCE FOR INFORMATION ABOUT 5G.
- 7** LACK OF INFORMATION OR BEING INFORMED LEADS TO LESS POSITIVE ATTITUDES TOWARDS 5G.
- 8** EUROPEAN CITIZENS SEE MAINLY FASTER INTERNET WITH MORE CAPACITY AS ADVANTAGES OF 5G.

THANK YOU!

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GAME CHANGERS



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