1. What is your gender?

- Female
- \bigcirc Male
- \bigcirc Other

SD01 Gender		
1 = Female		
2 = Male		
3 = Other		
-9 = Not answered		

2. How old are you?

I am years old

SD02_01 I am ... years old Free input (integer)

3. General perceptions and concerns about privacy

Please indicate the extent to which you agree or disagree with each statement by ticking the appropriate number.

	Strongly disagree 1	Somewhat disagree 2	Neutral 3	Somewhat agree 4	Strongly Agree 5
I am aware of the privacy issues and practices in our society.	\bigcirc	\bigcirc	\bigcirc	0	\bigcirc
I follow the news and developments about the privacy issues and privacy violations.	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
I keep myself updated about privacy issues and the solutions that companies and the government employ to ensure our privacy.	\bigcirc	\bigcirc	\bigcirc	0	\bigcirc
Compared to others, I am more sensitive about the way companies handle my personal information.	\bigcirc	\bigcirc	\bigcirc	0	\bigcirc
To me, it is the most important thing to keep my information privacy.	\bigcirc	\bigcirc	\bigcirc	0	\bigcirc
Compared to others, I tend to be more concerned about threats to my information privacy.	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc

PP02_01 I am aware of the privacy issues and practices in our society.PP02_02 I follow the news and developments about the privacy issues and privacy violations.

- **PP02_03** I keep myself updated about privacy issues and the solutions that companies and the government employ to ensure our privacy.
- **PP02_04** Compared to others, I am more sensitive about the way companies handle my personal information.

PP02_05 To me, it is the most important thing to keep my information privacy. **PP02_06** Compared to others, I tend to be more concerned about threats to

- my information privacy.
- 1 = Strongly disagree [1]
- 2 = Somewhat disagree [2]
- 3 = Neutral [3]
- 4 = Somewhat agree [4] 5 = Strongly Agree [5]
- -9 = Not answered

	Never	Rarely	Sometimes	Often	Very often	
	1	2	3	4	5	
How often have you been a victim of what you felt was an improper invasion of privacy?	\bigcirc	\bigcirc	0	\bigcirc	0	
How much have you heard or read during the past year about the use and potential misuse of the information collected from the Internet?	\bigcirc	0	0	\bigcirc	0	
How often have you experienced incidents where your personal information was used by a company without your authorization?	0	0	0	\bigcirc	\bigcirc	

PP06_01 How often have you been a victim of what you felt was an improper invasion of privacy?

- **PP06_02** How much have you heard or read during the past year about the use and potential misuse of the information collected from the Internet?
- **PP06_03** How often have you experienced incidents where your personal information was used by a company without your authorization?
 - 1 = Never [1]
 - 2 = Rarely [2]
 - 3 = Sometimes [3]
 - 4 = Often [4]
 - 5 = Very often [5] -9 = Not answered

https://www.soscisurvey.de/admin/preview.php?questionnaire=Questionnaire_Grp-A&mode=vars&php=off&filters=off

4. Voice-controlled virtual assistant

A virtual assistant is a software agent that can perform tasks based on voice commands, without the requirement for keyboard input. Some examples of commercially available virtual assistants are Apple's Siri, Amazon Alexa, Microsoft's Cortana, and Google Assistant. Among other capabilities, virtual assistants can set reminders, manage contacts, play music, take purchase orders, send messages and calls, provide weather reports, and manage smart home devices.

How often do you use a voice-controlled virtual assistant in your daily life?

\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Never	Rarely	Sometimes	Often	Very often



Are you interested in starting or continuing to use a voice-controlled virtual assistant?

\bigcirc	0	\bigcirc	\bigcirc	\bigcirc
Not at all interested	Slightly interested	Somewhat interested	Quite interested	Very interested
	PP15 VCVA 1 = Not at al 2 = Slightly i 3 = Somewh 4 = Quite int 5 = Very inte -9 = Not ans	nterested at interested erested prested		

On the next page, you will watch a video with sound. Please activate the speakers of your device or use headphones.

To confirm that sound is activated, play the audio clip below.

 Soundcheck

 0:00 / 0:00

 Enter the number spoken in the audio clip (in digits):

 F105_01 Enter the number spoken in the audio clip (in digits)

 Free input (integer)

<u>*Reminder*</u>: This page requires sound, keep using your speakers or headphones.

Please attentively watch this video (1:44 minutes) about the privacy implications of voice data.

The 'next' button will automatically appear when you are done watching the video.

VIDEO EINBINDUNG

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VI

THE VIDEO USED IN THE STUDY IS AVAILABLE HERE: https://www.youtube.com/watch?v=Gr22YqS1_VA

0:00 / 1:44

(vid_delay)

5. Please enter the code displayed in the video.

(not case-sensitive)

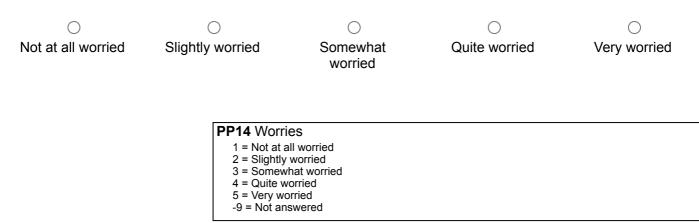
PP12 Video code (attention check) -2 = other text response -9 = Not answered PP12s Video code (attention check) (free text) Free text

6. Before you watched the video, were you aware that these types of information can be inferred from voice recordings?

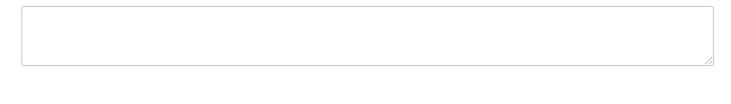
	Not at all 1	Slightly 2	Somewhat 3	Quite well 4	Very well 5
Geographical origin	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Gender and age	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Mental health information	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Physical health information	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Level of intoxication	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Moods and emotions	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Sleepiness and fatigue	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Personality traits	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc

PP07_10 Geographical origin
PP07_02 Gender and age
PP07_03 Mental health information
PP07_01 Physical health information
PP07_08 Level of intoxication
PP07_09 Moods and emotions
PP07_07 Sleepiness and fatigue
PP07_04 Personality traits
1 = Not at all [1]
2 = Slightly [2]
3 = Somewhat [3]
4 = Quite well [4]
5 = Very well [5]
-9 = Not answered

7. How worried are you about these possible inferences?



8. Why do you feel this way? Please explain your reasoning in two or more sentences.



P09_01 [01]
Free text

9. Prior to this questionnaire, how often have you consciously thought about this issue when using a microphone-equipped device?

\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Never	Rarely	Sometimes	Often	Very often
	DD40 Driv			
		or thoughts		
	1 = Neve			
	2 = Rare	ly		
	3 = Some			
	4 = Ofter			
	5 = Very	often		
	-9 = Not	answered		

10. What do you think, how common is it for companies to draw such inferences from voice recordings?

\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Very uncommon	Somewhat	Undecided	Somewhat	Very common
	uncommon		common	

PP11 Prevalence estimation

- 1 = Very uncommon
- 2 = Somewhat uncommon
- 3 = Undecided
- 4 = Somewhat common
- 5 = Very common
- -9 = Not answered

11. Please rate how concerned you would be if a company used voice recordings to infer personal information about you without your awareness.

Unconcerned	Slightly concerned	Somewhat concerned	Quite concerned	Very concerned
nder and age				
Unconcerned	Slightly concerned	Somewhat concerned	Quite concerned	Very concerned
ntal health informa	tion			
Unconcerned	Slightly concerned	Somewhat concerned	Quite concerned	Very concerned
sical health inform	nation			
Unconcerned	Slightly concerned	Somewhat concerned	Quite concerned	Very concerned
el of intoxication				
Unconcerned	Slightly concerned	Somewhat concerned	Quite concerned	Very concerned
ods and emotions				
Unconcerned	Slightly concerned	Somewhat concerned	Quite concerned	Very concerned
epiness and fatigu	e			
Unconcerned	Slightly concerned	Somewhat concerned	Quite concerned	Very concerned
sonality traits				
Unconcerned	Slightly concerned	Somewhat concerned	Quite concerned	Very concerned
		Geographical origin Gender and age		

- PP10_08 Level of intoxication PP10_09 Moods and emotions PP10_07 Sleepiness and fatigue
- PP10_04 Personality traits
 - 1 = Unconcerned [1]
 - 2 = Slightly concerned [2] 3 = Somewhat concerned [3]
- 4 = Quite concerned [4] 5 = Very concerned [5]
- -9 = Not answered

Previously in this survey, you were asked about your interest in voice-controlled virtual assistants, such as Apple's Siri and Amazon Alexa. You are now asked about this a second time.

Please answer based on your current thoughts and feelings, independent from your previous response:

Are you interested in starting or continuing to use a voice-controlled virtual assistant?

\bigcirc	0	\bigcirc	\bigcirc	\bigcirc
Not at all interested	Slightly interested	Somewhat interested	Quite interested	Very interested

PP17 VCVA usage interest	
1 = Not at all interested	
2 = Slightly interested	
3 = Somewhat interested	
4 = Quite interested	
5 = Very interested	
-9 = Not answered	

12. Please indicate the extent to which you agree or disagree with each statement by ticking the appropriate number.

	Strongly disagree 1	Somewhat disagree 2	Neutral 3	Somewhat agree 4	Strongly agree 5
Other people come to me for advice on new technologies	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
In general, I am among the first in my circle of friends to acquire new technology when it appears	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
I can usually figure out new high-tech products and services without help from others	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
I keep up with the latest technological developments in my areas of interest	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
I enjoy the challenge of figuring out high-tech gadgets	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
I find I have fewer problems than other people in making technology work for me	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
I prefer to use the most advanced technology available	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Show that you are paying attention by skipping this row without making a tick	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
I find new technologies to be mentally stimulating	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Learning about technology can be as rewarding as the technology itself	\bigcirc	\bigcirc	\bigcirc	\bigcirc	0

F102_01 Other people come to me for advice on new technologies

F102	_02 In general, I am among the first in my circle of friends to acquire
	new technology when it appears

- **F102_03** I can usually figure out new high-tech products and services without help from others
- **F102_04** I keep up with the latest technological developments in my areas of interest
- F102_05 I enjoy the challenge of figuring out high-tech gadgets
- **F102_06** I find I have fewer problems than other people in making technology work for me
- F102_07 I prefer to use the most advanced technology available
- **F102_11** Show that you are paying attention by skipping this row without making a tick
- F102_08 I find new technologies to be mentally stimulating
- F102_09 Learning about technology can be as rewarding as the technology itself
 - 1 = Strongly disagree [1]
 - 2 = Somewhat disagree [2]
 - 3 = Neutral [3]
 - 4 = Somewhat agree [4] 5 = Strongly agree [5]
 - -9 = Not answered

13. Do you own any devices that have a microphone? Select all that apply.

- □ Phone / smartphone
- Laptop
- □ Tablet
- Smartwatch
- Camera
- Smart speaker (e.g., Amazon Echo, Google Home, Google Home)
- Car with voice control interface
- □ Voice-enabled remote control
- Other (please specify)

DT01 Owned Devices: Residual option (negative) or number of selected
options
Integer
DT01_01 Phone / smartphone
DT01_02 Laptop
DT01_03 Tablet
DT01_04 Smartwatch
DT01_05 Camera
DT01_07 Smart speaker (e.g., Amazon Echo, Google Home, Google Home)
DT01_08 Car with voice control interface
DT01_10 Voice-enabled remote control
DT01_09 Other (please specify)
1 = Not checked
2 = Checked
DT01_09a Other (please specify) (free text)
Free text

14. What is the highest level of education you have obtained?

- Finished school with no qualifications
- Still in secondary school
- GCSE Level education (e.g. GCSE, O-Levels, Standards)
- A-Level education (e.g. A, AS, S-Levels, Highers)
- Some undergraduate education (i.e. university examinations but not completed degree)
- Degree or Graduate education (e.g. BSc, BA)
- Post-graduate education (e.g. MSc, MA)
- Doctorate degree
- Vocational education (e.g. NVQ, HNC, HND)
- Other degree or qualification (please specify):

SD12 Level of education
16 = Finished school with no qualifications
17 = Still in secondary school
13 = GCSE Level education (e.g. GCSE, O-Levels, Standards)
14 = A-Level education (e.g. A, AS, S-Levels, Highers)
3 = Some undergraduate education (i.e. university examinations but not completed degree)
4 = Degree or Graduate education (e.g. BSc, BA)
5 = Post-graduate education (e.g. MSc, MA)
18 = Doctorate degree
6 = Vocational education (e.g. NVQ, HNC, HND)
12 = Other degree or qualification (please specify):
-9 = Not answered
SD12_12 Other degree or qualification (please specify)
Free text

15. Do you have professional experience in the following areas?

Data protection law

no experience	little experience	some experience	much experience	very much experience
Computer science (e.g	j. as a programmer, tec	hnical IT consultant, or	⁻ system administrator)	
no experience	little experience	some experience	much experience	very much experience
)ata mining				
Data mining				
oata mining no experience	little experience	some experience	much experience	very much experience
	little experience	some experience	much experience	very much experience
no experience	little experience	some experience	much experience	very much experience
no experience		some experience	much experience	very much experience

SD25_01 Data protection law SD25_02 Computer science (e.g. as a programmer, technical IT consultant, or system administrator) SD25_03 Data mining SD25_04 Information technology security (IT security) 1 = no experience 2 = little experience 3 = some experience 4 = much experience 5 = very much experience

- -9 = Not answered
- 16. What is your monthly net income?

Net income is defined as your total income after tax and social security deductions.

The amounts below are in British Pound (£). In case you need to convert: $\in 1$ is roughly equal to £0.9, \$1 is roughly equal to £0.8.

- I do not have a personal income
- less than £250
- £250 up to £500
- £500 up to £1000
- £1000 up to £1500
- £1500 up to £2000
- £2000 up to £3000
- £3000 up to £4000
- £4000 up to £5000
- £5000 or more
- Decline to answer

SD17 Income 11 = I do not have a personal income 1 = less than £250 2 = £250 up to £500 3 = £500 up to £1000 4 = £1000 up to £1500 5 = £1500 up to £2000 6 = £2000 up to £3000 7 = £3000 up to £4000 8 = £4000 up to £5000 9 = £5000 or more 10 = Decline to answer -9 = Not answered

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17. What was this study about?

To show if we have expressed ourselves clearly enough, please tick the description that best reflects the topic of this study.

- Health effects of urban air pollution
- Privacy concerns related to voice recordings
- Telecommunications in India
- Professional music production
- \bigcirc Health concerns about wireless device radiation
- Landlord and tenant privacy rights

F101 Attention check

- 1 = Health effects of urban air pollution
- 2 = Privacy concerns related to voice recordings
- 3 = Telecommunications in India
- 4 = Professional music production 5 = Health concerns about wireless device radiation
- 6 = Landlord and tenant privacy rights
- -9 = Not answered

Would you like to comment this questionnaire, or would you like to add information for us to better understand your answers?

Do you think, this questionnaire needs improvement? Did you feel some question were unclear, or did you feel unpleasent answering specific questions? Please leave us notes.

SD18_01 [01] Free text

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