### Perceptions on AI by the Citizens of Europe questionnaire (PAICE)

Let's talk about Artificial Intelligence.

Consider a simple definition: Artificial intelligence (AI) refers to computer systems that can perform tasks that usually require intelligence (e.g. making decisions, achieving goals, planning, learning, reasoning, etc.). AI systems can perform these tasks based on objectives set by humans with a few explicit instructions.

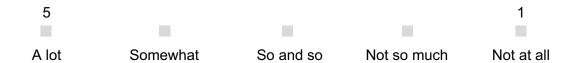
Q1. When it comes to Artificial Intelligence (AI) and its impact on society, I feel my competency on the subject would be:



Q2. How would you describe your attitude towards Artificial Intelligence (AI) and its applications?



Q3. To what extent do you feel Artificial Intelligence (AI) and its applications impact your daily life already?



- Q4. Have you ever heard about the following European initiatives regarding AI?
  - Q4 1. General Data Protection Regulation (GDPR).

Yes No

Q4\_2. Ethics Guidelines for Trustworthy Al.

Yes No

Q4\_3. Proposal for a Regulation on Al.

Q5. How often are you aware of interacting with a product/service based on or including AI?

5 1
Always Often Sometimes Seldom Never I don't know

**Q6.** Consider the following list of applications. Please select which ones you think may incorporate AI.

- **Q6\_1.** Ride sharing apps (e.g. Uber, Lyft, Blabla car).
- **Q6 2.** Calculators.
- **Q6\_3.** Contents and products product recommendations (e.g. Youtube, Amazon, Netflix).
- **Q6\_4.** Accommodation booking sites (e.g. Tripadvisor, Trivago, Airbnb).
- **Q6 5.** Phone camera.
- **Q6 6.** Messaging apps (e.g. WhatsApp, Telegram).
- **Q6 7.** Email spam filters.
- **Q6\_8.** Search engines (e.g. Google, Bing).
- Q6 9. Drones.
- **Q6 10.** Social media (e.g. Facebook, Twitter).
- **Q6\_11.** Traffic navigation apps (e.g. Google Maps, Waze, TomTom).
- **Q6\_12.** Facial recognition apps (e.g. face unlock in phones).
- **Q6 13.** Text editor (e.g. Word, Open Office).
- **Q6 14.** Calendar app (e.g. Google Calendar, iCal).
- **Q6 15.** Internet browser (e.g. Chrome, Firefox).
- **Q6\_16.** Teleconferencing app (e.g. Zoom, Skype, Google Meet).
- **Q6 17.** Others [fill-in option]
- **Q6\_18.** None of the above.

**Q7.** To what extent do you think AI is used in each of the following sectors in Europe? Please use the five-point scale to plot your answer.

**Q7\_1.** Healthcare (e.g. diagnostic support, personalised medicine).

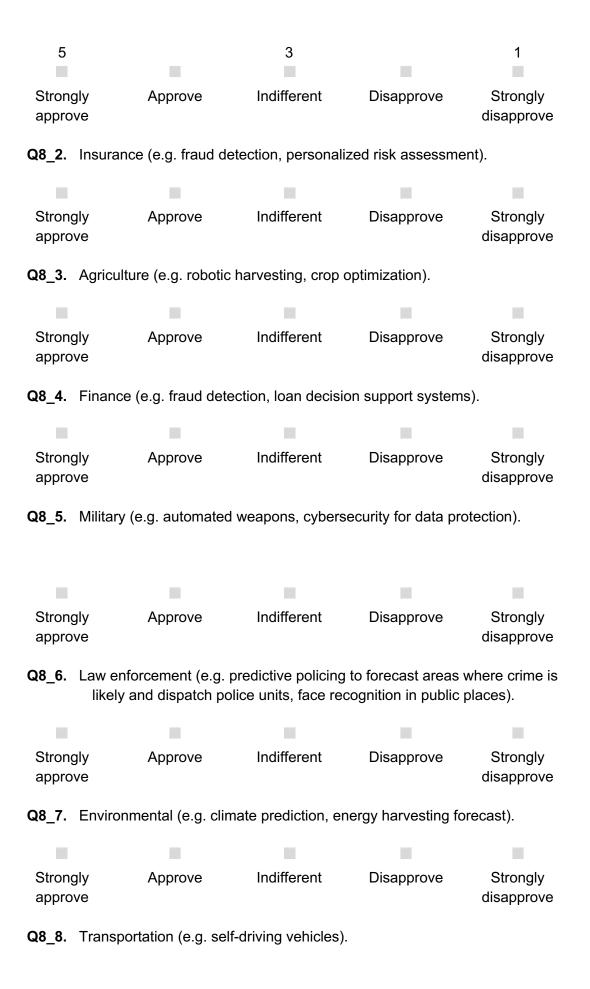
5 1 A lot Somewhat So and so Not so much Not at all

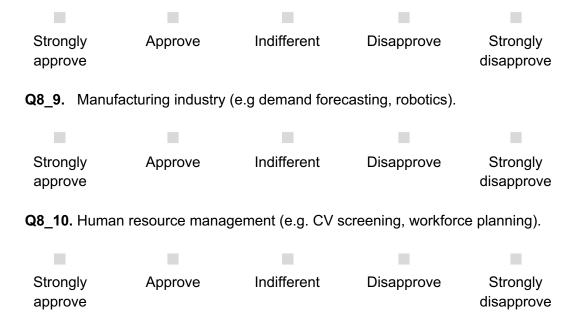
**Q7 2.** Insurance (e.g. fraud detection, personalized risk assessment).

	A lot	Somewhat	So and so	Not so much	Not at all				
Q7_3.	Agriculture (e.g. robotic harvesting, crop optimization).								
	A lot	Somewhat	So and so	Not so much	Not at all				
Q7_4.	Finance (e.g. fraud detection, loan decision support systems).								
	A lot	Somewhat	So and so	Not so much	Not at all				
Q7_5.	Military (e.g. automated weapons, cybersecurity for data protection).								
	A lot	Somewhat	So and so	Not so much	Not at all				
Q7_6.	<b>_6.</b> Law enforcement (e.g. predictive policing to forecast areas where crime is likely and dispatch police units, face recognition in public places).								
	A lot	Somewhat	So and so	Not so much	Not at all				
Q7_7.	Q7_7. Environmental (e.g. climate prediction, energy harvesting forecast).								
	A lot	Somewhat	So and so	Not so much	Not at all				
Q7_8.	8. Transportation (e.g. self-driving vehicles).								
	A lot	Somewhat	So and so	Not so much	Not at all				
Q7_9.	_9. Manufacturing industry (e.g demand forecasting, robotics).								
	A lot	Somewhat	So and so	Not so much	Not at all				
Q7_10. Human resource management (e.g. CV screening, workforce planning).									

**Q8**. How would you describe your attitude towards the use of AI in the following sectors in Europe? Please use the five-point scale to plot your answer.

**Q8\_1.** Healthcare (e.g. diagnostic support, personalised medicine).





### **Q9.** Read carefully the following scenario:

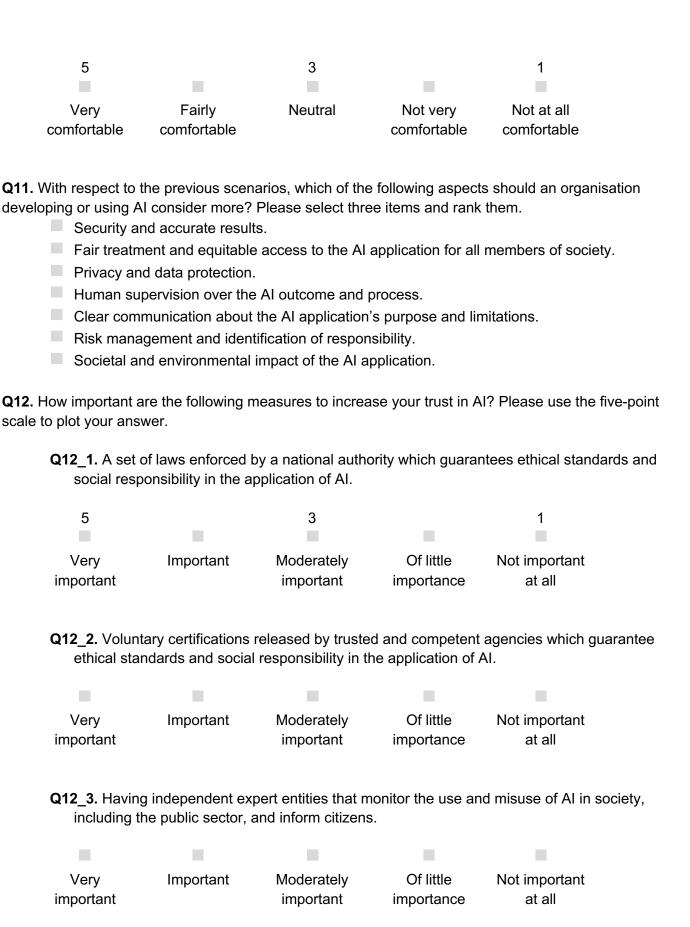
Imagine that you are applying for a job in a large company and the recruitment process consists of two steps. The first step is based on an AI software which scans your resume and your answers to a set of questions on strategic competencies. The software assigns you a score which is used to select those candidates who can move on to the second stage (the interview). The company claims that the software makes the process faster and more objective. Also, the company says that the data is anonymised, and no personal information is used. To what extent would you feel comfortable or uncomfortable with this process?



#### **Q10.** Read carefully the following scenario:

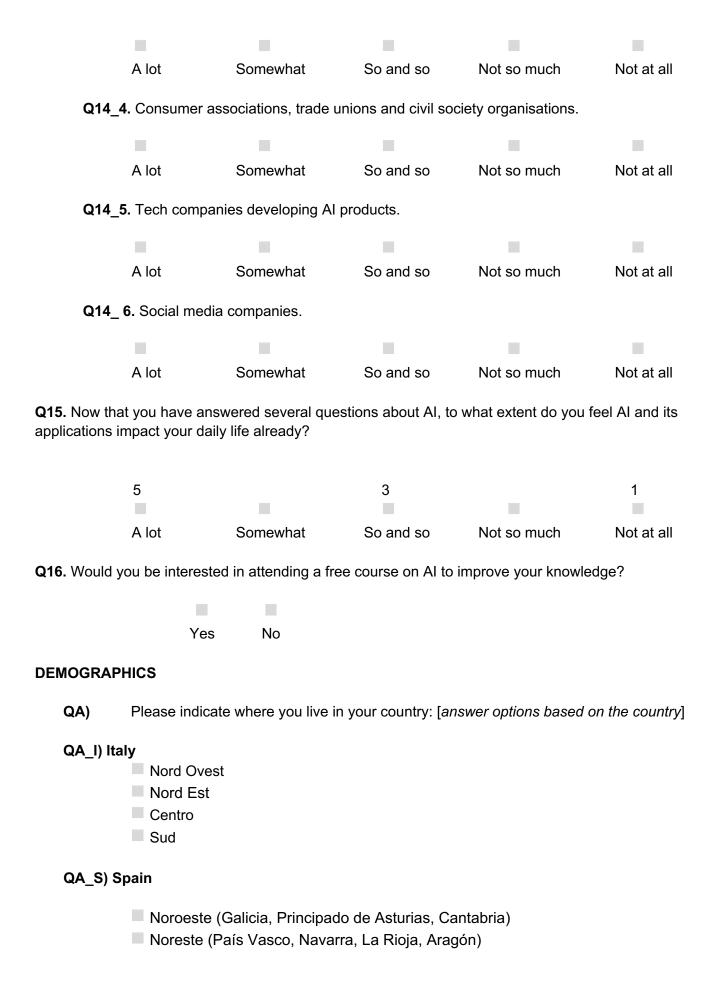
Imagine that you are looking for a smart meter to reduce energy consumption in your house, cut the cost of utilities, and adopt a more sustainable lifestyle. You are offered a smart meter that uses AI to analyse home energy consumption and make recommendations for more efficient usage. Among functionalities, this system can give you the opportunity to receive personalised offers from energy suppliers which can help you save money.

The company producing the smart meter says that your data is anonymised, and no personal information is shared with third parties without your consent. To what extent would you feel comfortable or uncomfortable with this application?



**Q12\_4.** The adoption and application of a self-regulated code of conduct or a set of ethical guidelines when developing or using AI products.

Very important	Important	Moderately important	Of little importance	Not importa at all	ınt				
Q12_5. The provision of clear and transparent information by the provider that describes the purpose, limitations and data usage of the AI product.									
Very important	Important	Moderately important	Of little importance	Not importa at all	ınt				
Q12_6. The creation of design teams promoting diversity and social inclusion (e.g. gender wise, different expertise, ethnicity, etc) and the consultation of different stakeholders throughout the entire lifecycle of the AI product.									
Very important	Important	Moderately important	Of little importance	Not importa at all	ınt				
Q13. To what extent do you agree that having a better education on what Al is, as well as its current and future uses, would improve your trust in it?									
5		3		1					
Strongly agree	Agree	Neutral	Disagree	Strongly disagree					
<b>Q14.</b> How much do you trust the following entities in ensuring that Al is in the best interest of the public? Please use the five-point scale to plot your answer.									
Q14_1. National Governments and public authorities.									
5		3			1				
A lot	Somewh	at So an	d so Not s	so much	Not at all				
Q14_2. European Union (including European Commission/European Parliament).									
	-								
A lot	Somewh	at So an	d so Not s	so much	Not at all				
Q14_3. Universities and research centres.									



- Comunidad de Madrid o Munidad de Madrid (Madrid)
- Centro (Castilla y León, Castilla La Mancha, Extremadura)
- Este (Cataluña, Comunidad Valenciana, Islas Baleares)
- Sur (Andalucía, Región de Murcia, Ceuta, Melilla)
- Canarias (Islas Canarias)

## QA\_F)France

- Auvergne-Rhône-Alpes
- Bourgogne-Franche-Comté
- Bretagne
- Centre-Val de Loire
- Corse
- Grand Est
- Hauts-de-France
- ☐ Île-de-France
- Normandie
- Nouvelle-Aquitaine
- Occitanie
- Pays de la Loire
- Provence-Alpes-Côte d'Azur

## QA\_G) Germany

- Hamburg, Bremen, Schleswig-Holstein, Niedersachsen
- Baden-Württemberg
- Bayern
- Berlin, Mecklenburg-Vorpommern, Brandenburg, Sachsen-Anhalt
- Hessen, Rheinland-Pfalz, Saarland
- Nordrhein-Westfalen
- Thüringen, Sachsen

## QA\_SV) Sweden

- Mellersta norrland
- Övre norrland
- Sydsverige
- Norra mellansverige
- Småland med öarna
- Västsverige
- Östra mellansverige
- Stockholm

## QA\_N) Netherlands

- Noord & Oost Nederland
- West-Nederland
- Zuid-Nederland

# QA\_P) Poland

- Centralny (Central)
- Polnocno-Zachodni (North-West)
- Polnocny (North)
- Poludniowo-Zachodni (South-West)
- Poludniowy (South)
- Wschodni (East)

## QA\_R) Romania

- Bucuresti lifov
- Centru
- Nord Est
- Nord-Vest
- Sud-Muntenia
- Sud-Est
- Sud-Vest Oltenia
- Vest

## QB) You are:

- Female
- Male
- Other

## **QCB)** Please indicate your age:

- 18-34
- 35-54
- 55-75

# **QD)** Please indicate your job:

- Entrepreneur / employer
- Self-employed / freelance professional
- Manager, officer

White collar / employee				
Craftsman				
Shop owner, retailer				
Teacher, professor, writer, journalist, artist				
Manual or technical worker				
Student				
Retired				
Homemaker				
Unemployed				
Other[fill-in option]				
is your highest level of formal education?				

### QE) What is your highest level of formal education?

- Lower secondary education or lower education
- Upper secondary education
- Post-secondary non-tertiary education
- Short-cycle tertiary education
- Bachelor's or equivalent level
- Master's or equivalent level
- Doctoral or equivalent level
- NN

## **QG)** Please the size of the town where you live:

- Up to 5000
- Between 5000 and 10000
- Between 10000 and 30000
- Between 30000 and 100000
- Between 100000 and 250000
- Over 250000

#### QH) If you were to describe your digital skills, how would you define yourself:

- Very expert: I am sure of my digital skills, I am always attentive to innovation, I have no difficulty in moving in the digital world for everything I need, and I am interested in.
- Expert: I am quite sure of my digital skills, I try to exploit the potential it can offer and to be updated on the news.
- Enough expert: I'm not entirely sure of my skills, but I manage to do the best I can when I need to do something online and I try to learn new skills when I need them.
- Not very expert: I'm not sure of my skills and I have to get someone to help me with new things I don't understand
- Not at all expert: I use digital tools only if it is strictly necessary (e.g. email, messages).