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Report info

Report date:

Thursday, September 21, 2017 4:54:19 PM MEST

Start date:

Monday, February 6, 2017 1:30:00 PM MET

Stop date:

Wednesday, May 31, 2017 11:59:00 PM MEST

Number of completed responses:

1

Question 1

Disclaimer

This document is a working document of the Committee on Legal Affairs of the European Parliament for consultation and does not prejudge any future decision to be taken by the European Parliament. Only responses received through this online questionnaire, subject to the exception for people with disabilities and their representatives, will be taken into account and included in the report summarising the responses. Please read [User Guide](#) before starting to fill this questionnaire.

In case of any questions related to this public consultation please contact: Consultation.Robotics@europarl.europa.eu .

It is important to read the [specific privacy statement](#) available on the public consultation website for information on how your personal data and contribution will be used.

Question 2

Executive Summary

Robotics and artificial intelligence (AI) have become one of the most prominent technological trends of our century. The swift increase in their use and development presents new and difficult challenges to our societies.

The aim of this consultation is to launch a broad based debate with a wide range of stakeholders on the European Parliament report on Civil Law Rules on Robotics ((2015/2103(INL))).¹ This consultation specifically seeks views on how to best address the challenging ethical, economic, legal and social issues related to the developments in the area of robotics and AI for civil use, as identified in the report. The European Parliament is to debate and vote on the report of the Committee on Legal Affairs in Plenary, in February 2017. The current public consultation will contribute to possible further European Parliament initiatives. This consultation will contribute to assessing the feasibility and content of further potential EU policy initiatives on robotics and AI, to maximise the socio-economic opportunities provided by these technological developments for businesses, citizens and governments, and minimise possible negative disruptions. Furthermore, the results of the Consultation may also feed into the forthcoming European Parliamentary Research Service's 'Cost of Non-Europe on Robotics and Artificial Intelligence' Report.

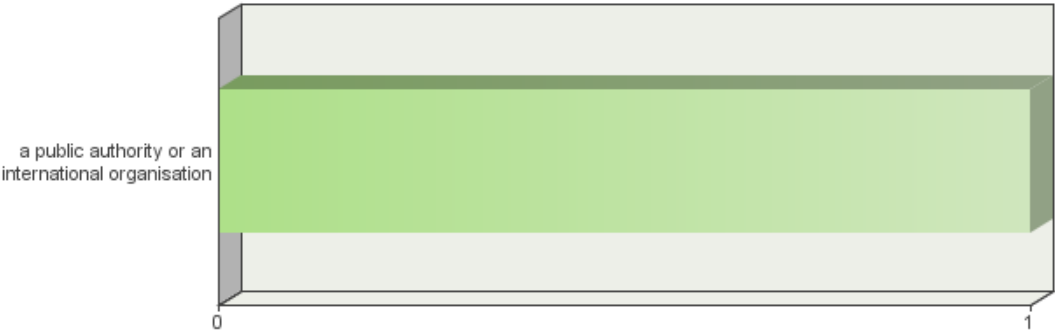
The Consultation is requested and administratively coordinated by the Committee on Legal Affairs of the European Parliament. The Consultation is prepared by the European Parliamentary Research Service, European Added Value Unit. Scientific coordinator, Dr. Tatjana Evas (EAVA Unit).

¹ Draft report with recommendations to the Commission on Civil Law Rules on Robotics. (2015/2103(INL)), Rapporteur: Mady Delvaux (S&D, Luxembourg), 31 May 2016, PE582.443v01-00; available in all EU languages at

<http://www.europarl.europa.eu/sides/getDoc.do?pubRef=-//EP//TEXT+COMPARL+PE-582.443+01+NOT+XML+V0//EN>

Question 3

You are replying as: *



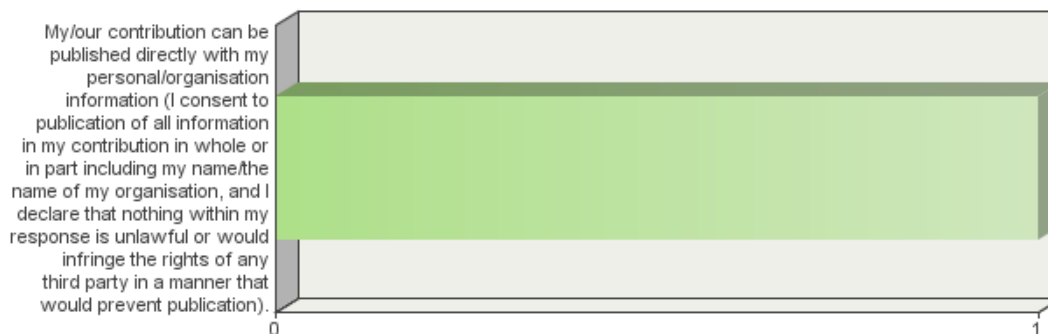
Frequency table

Choices	Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
a public authority or an international organisation	1	1	100%	100%	100%	100%
Sum:	1	-	100%	-	100%	-
Not answered:	0	-	0%	-	-	-
Average:	3	Minimum:	3	Variance:		
Median:	3	Maximum:	3	Std. deviation:		

Total answered: 1

Question 4

Please choose from one of the following options on the use of your contribution: *



Frequency table

Choices	Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
My/our contribution can be published directly with my personal/organisation information (I consent to publication of all information in my contribution in whole or in part including my name/the name of my organisation, and I declare that nothing within my response is unlawful or would infringe the rights of any third party in a manner that would prevent publication).	1	1	100%	100%	100%	100%
Sum:	1	-	100%	-	100%	-
Not answered:	0	-	0%	-	-	-
Average: 1	Minimum: 1	1	Variance:			
Median: 1	Maximum: 1	1	Std. deviation:			

Total answered: 1

Question 5

The name of your organisation/company/public authority/international organisation: *

Text input

Legal Policy & Research Unit, International Bar Association

Question 6

Your full name (first name, last name): *

Text input

Jane Ellis

Question 8

Is your organization included in the Transparency Register? *

In the interests of transparency, the European Parliament asks organisations who wish to submit comments in the context of public consultations to provide the Parliament and the public at large with information about whom and what they represent by registering in the Transparency Register and subscribing to its Code of Conduct. If an organisation decides not to provide this information, it is the European Institution's stated policy to list the contribution as part of the individual contributions. (Consultation Standards, see COM (2002) 704; Better Regulation guidelines, see SWD(2015)111 final and Communication on ETI follow-up, see COM (2007) 127).

If you are a registered organisation, please indicate your Register ID number below when replying to the online questionnaire. Your contribution will then be considered as representative of the views of your organisation. If your organisation is not registered, you have the opportunity to register now.

It is important to read the specific privacy statement available on the public consultation website for information on how your personal data and contribution will be used.

No data to report

Question 9

If yes, please indicate your Register ID number: *

Question 10

Please indicate the type of organisation or company: *

No data to report

Question 11

Please specify the type of organisation: (optional)

Question 12

Please indicate the type of public authority or international organisation: *



Frequency table

Choices	Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
International or European organisation	1	1	100%	100%	100%	100%
Sum:	1	-	100%	-	100%	-
Not answered:	0	-	0%	-	-	-
Average:	1	Minimum:	1	Variance:		
Median:	1	Maximum:	1	Std. deviation:		

Total answered: 1

Question 13

Please specify the type of public authority: (optional)

Question 14

Is your organisation a multinational enterprise (groups with establishments in more than one country)? *

No data to report

Question 15

Is your organisation a multinational enterprise with establishments outside of the EU? *

No data to report

Question 16

How many employees does your company have? *

No data to report

Question 17

Please provide a brief description of your organisation's activities: (optional)

Text input

The International Bar Association is the global voice of the legal profession. The IBA's Legal Policy & Research Unit is the department which undertakes research, projects and other work relevant to the legal profession.

Question 18

Where are you based (resident) and/or where do you carry out your activity? *

No data to report

Question 19

Field of activity or sector (if applicable): choose at least one option *

(Statistical classification of economic activities in the European Community (NACE), for details on the classification please consult Eurostat <http://ec.europa.eu/eurostat/documents/3859598/5902521/KS-RA-07-015-EN.PDF/dd5443f5-b886-40e4-920d-9df03590ff91?version=1.0>).

No data to report

Question 20

Has your organisation received funding from the EU in the last five years? *

No data to report

Question 21

What is your nationality? *

No data to report

Question 22

How old are you? *

No data to report

Question 23

What is your gender? *

No data to report

Question 24

What is your highest level of education? *

No data to report

Question 25

What is your current occupation? *

No data to report

Question 26

Have you studied, worked or lived in another EU Member State than your country of origin? *

No data to report

Question 27

Finally, if required, may the European Parliament services contact you for further details on the information you have submitted? *



Frequency table

Choices		Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Yes		1	1	100%	100%	100%	100%
Sum:		1	-	100%	-	100%	-
Not answered:		0	-	0%	-	-	-
Average:	1	Minimum:	1	Variance:			
Median:	1	Maximum:	1	Std. deviation:			

Total answered: 1

Question 28

Have you ever used, or do you currently use robots at home or at work (e.g. a robotic vacuum cleaner at home or an industrial robot at work)? *

(A robot is defined here as an autonomous machine which can assist humans in everyday tasks e.g. as a kind of co-worker helping on the factory floor or as a robot cleaner, or in activities which may be dangerous for humans, like search and rescue in disasters. Robots can come in many shapes or sizes, including human-like. Traditional kitchen appliances, such as a blender or a coffee maker, are not robots. [definition used in the Special Eurobarometer on attitudes towards robots http://ec.europa.eu/public_opinion/archives/ebs/ebs_382_en.pdf])

No data to report

Question 29

Generally speaking are you interested or not interested in scientific discoveries and technological developments? *

No data to report

Question 30

Generally speaking, what is your view on robots? *

No data to report

Question 31

Generally speaking, what is your view on developments in artificial intelligence? *

No data to report

Question 32

In a one to three year future, robots will become part of my life: *

No data to report

Question 33

In your opinion, in Europe, when it will become commonplace for robots to do your current job? *

No data to report

Question 34

Please indicate to what extent you agree or disagree with the each of the following statements related to robotics and AI: *

No data to report

Question 35

Please indicate to what extent you feel concerned about the following issues related to robotics and AI: *

No data to report

Question 36

Generally speaking, do you think it is necessary to regulate developments in the robotics and AI area? *

No data to report

Question 37

In your opinion, who should take a primary responsibility to finance research and development in the area of robotics and AI? *

No data to report

Question 38

In your opinion in which area is EU regulatory action most urgent? *

No data to report

Question 39

Please indicate, to what extent you agree or disagree with the each of the following statements, at European Union level it is necessary ... *

No data to report

Question 40

What implications has the development of robotics and AI in your field/industry/organisation? *



Frequency table

Choices	Absolute frequency	Cum. absolute frequency	Relative frequency by choice	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
changes nature of work	1	1	50%	100%	100%	100%	100%
changes organisational structures and business models	1	2	50%	100%	200%	100%	200%
Sum:	2	-	100%	-	-	-	-
Not answered:	0	-	-	0%	-	-	-
Average:	3.5	Minimum:	2	Variance:	4.5		
Median:	3.5	Maximum:	5	Std. deviation:	2.12		

Total answered: 1

Text input

The global legal profession continues to explore the impact AI and robotics is likely to have on its industry in future. However, it is generally recognised that there will be a significant change to how the legal profession operates.

Question 41

In your field, what are the key obstacles/barriers to market development in robotics and AI? *



Frequency table

Choices	Absolute frequency	Cum. absolute frequency	Relative frequency by choice	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
human resources, i.e. employee skills or training	1	1	50%	100%	100%	100%	100%
other (please specify)	1	2	50%	100%	200%	100%	200%
Sum:	2	-	100%	-	-	-	-
Not answered:	0	-	-	0%	-	-	-
Average:	6.5	Minimum:	4	Variance:	12.5		
Median:	6.5	Maximum:	9	Std. deviation:	3.54		

Total answered: 1

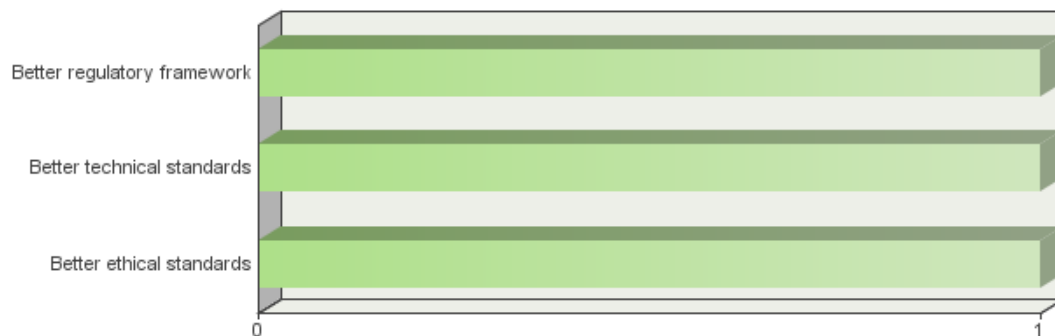
Text input

For the legal profession, it is the uncertain impact AI and robotics will have on the provision of legal services and how to manage that uncertainty, while also taking advantage of all the benefits of AI and robotics.

Question 42

What action, in the context of technological developments in robotics and AI in your field, should the EU take to encourage innovation and global competitiveness in the European Union? Please select up to 3 choices which in your opinion are most urgent.

*



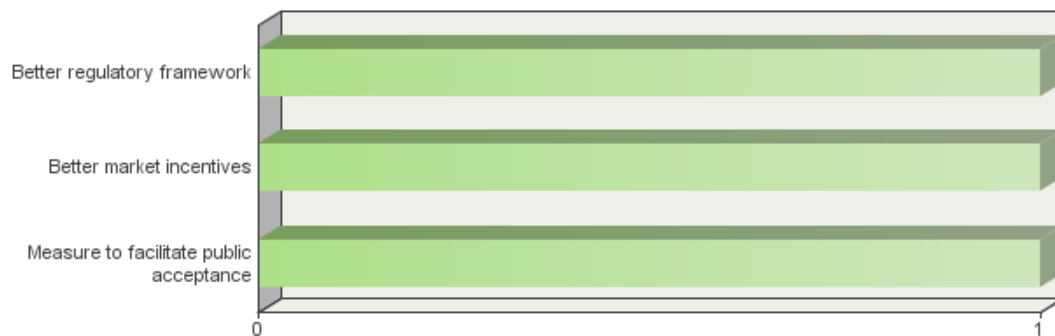
Frequency table

Choices	Absolute frequency	Cum. absolute frequency	Relative frequency by choice	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Better regulatory framework	1	1	33.33%	100%	100%	100%	100%
Better technical standards	1	2	33.33%	100%	200%	100%	200%
Better ethical standards	1	3	33.33%	100%	300%	100%	300%
Sum:	3	-	100%	-	-	-	-
Not answered:	0	-	-	0%	-	-	-
Average:	2.67	Minimum:	1	Variance:	2.33		
Median:	3	Maximum:	4	Std. deviation:	1.53		

Total answered: 1

Question 43

What action, in the context of technological developments in robotics and AI in your field, should the EU take to unlock the potential for growth and jobs in the European Union? Please select up to 3 choices which in your opinion are most urgent. *



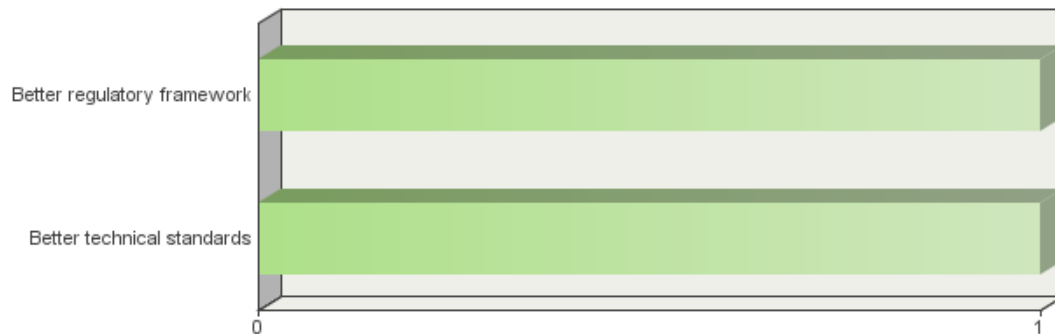
Frequency table

Choices	Absolute frequency	Cum. absolute frequency	Relative frequency by choice	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Better regulatory framework	1	1	33.33%	100%	100%	100%	100%
Better market incentives	1	2	33.33%	100%	200%	100%	200%
Measure to facilitate public acceptance	1	3	33.33%	100%	300%	100%	300%
Sum:	3	-	100%	-	-	-	-
Not answered:	0	-	-	0%	-	-	-
Average:	4	Minimum:	1	Variance:	7		
Median:	5	Maximum:	6	Std. deviation:	2.65		

Total answered: 1

Question 44

What actions should the EU take, in the context of technological developments in robotics and AI in your field, to enhance productivity in the European Union? Please select up to 3 choices which in your opinion are most urgent. *



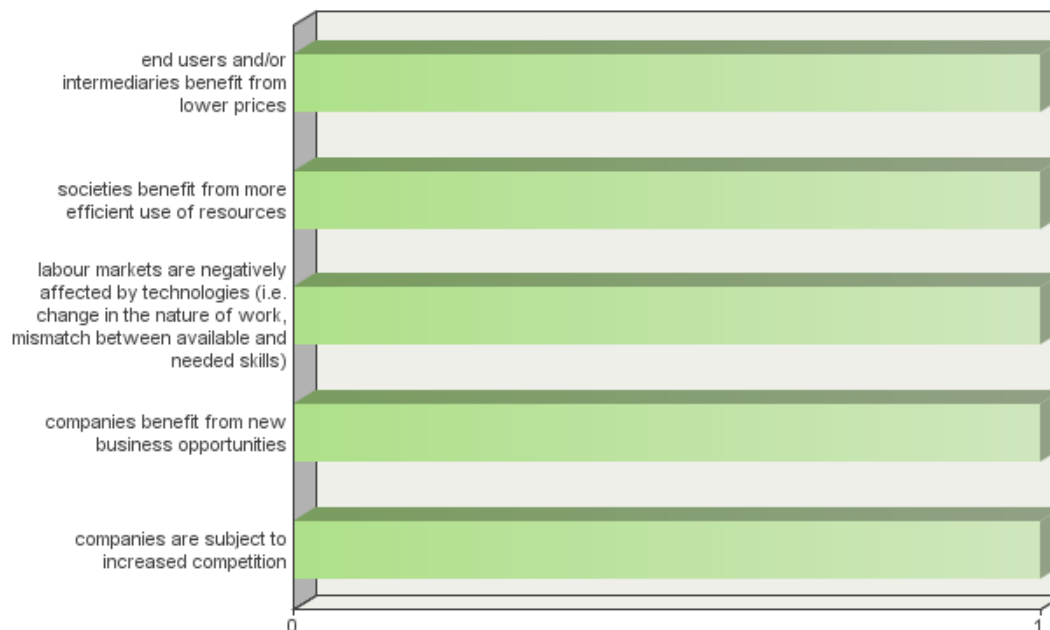
Frequency table

Choices	Absolute frequency	Cum. absolute frequency	Relative frequency by choice	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Better regulatory framework	1	1	50%	100%	100%	100%	100%
Better technical standards	1	2	50%	100%	200%	100%	200%
Sum:	2	-	100%	-	-	-	-
Not answered:	0	-	-	0%	-	-	-
Average:	2	Minimum:	1	Variance:	2		
Median:	2	Maximum:	3	Std. deviation:	1.41		

Total answered: 1

Question 45

What are the societal and economic impacts that developments of robotics and AI bring, or could potentially bring to your field in the short to mid-term? *



Frequency table

Choices	Absolute frequency	Cum. absolute frequency	Relative frequency by choice	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
end users and/or intermediaries benefit from lower prices	1	1	20%	100%	100%	100%	100%
societies benefit from more efficient use of resources	1	2	20%	100%	200%	100%	200%
labour markets are negatively affected by technologies (i.e. change in the nature of work, mismatch between available and needed skills)	1	3	20%	100%	300%	100%	300%
companies benefit from new business opportunities	1	4	20%	100%	400%	100%	400%
companies are subject to increased competition	1	5	20%	100%	500%	100%	500%
Sum:	5	-	100%	-	-	-	-
Not answered:	0	-	-	0%	-	-	-
Average:	8	Minimum:	1	Variance:	20.5		
Median:	10	Maximum:	12	Std. deviation:	4.53		

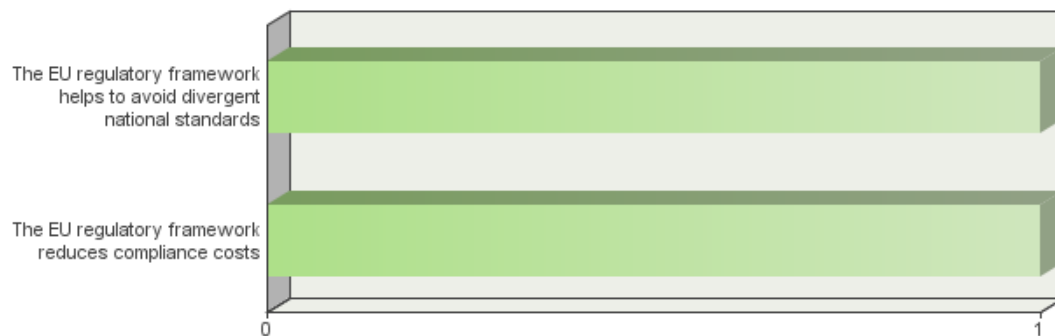
Total answered: 1

Text input

It may be AI and robotics reduce the need to obtain legal services for legal work. This is likely to result in lower costs for users of legal services and a more efficient use of legal resources. There is also the potential for non-lawyers to start providing legal services, such as standard contracts being made available through computer companies. If this occurs, then there certainly will be increased competition but a negative impact on the market for legal services. However, uncertainty arises as to the potential consequence of securing legal services through an AI process. For example, if two parties agree a contract that has been drawn up by a computer with no input from a lawyer, what options are available to those parties if the contract is found to be fundamentally flawed? These are issues the IBA LPRU, and the legal profession more broadly, continues to explore.

Question 46

In addition to actions at national level, what added value does the EU bring, or potentially bring to your field in the context of new technological developments in robotics and AI? *



Frequency table

Choices	Absolute frequency	Cum. absolute frequency	Relative frequency by choice	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
The EU regulatory framework helps to avoid divergent national standards	1	1	50%	100%	100%	100%	100%
The EU regulatory framework reduces compliance costs	1	2	50%	100%	200%	100%	200%
Sum:	2	-	100%	-	-	-	-
Not answered:	0	-	-	0%	-	-	-
Average:	5.5	Minimum:	4	Variance:	4.5		
Median:	5.5	Maximum:	7	Std. deviation:	2.12		

Total answered: 1

Question 47

Are there areas in your industry where potential innovation and growth based on new technological developments are at a standstill, due to a lack of or outdated EU law and policy? *



Frequency table

Choices	Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
No	1	1	100%	100%	100%	100%
Sum:	1	-	100%	-	100%	-
Not answered:	0	-	0%	-	-	-
Average:	2	Minimum:	2	Variance:		
Median:	2	Maximum:	2	Std. deviation:		

Total answered: 1

Question 48

You have indicated that EU law and policy is lagging behind your industry/organisation's needs, what in your opinion are the main problems? Please explain: (optional)

Question 49

You have indicated that EU law and policy is lagging behind your industry/organisation's needs, what in your opinion is the financial impact of those issues being unresolved? (Please provide estimate if possible): (optional)

Question 50

You have indicated that EU law and policy is lagging behind your industry/organisation's needs, what in your opinion can be done to address the situation? What types of measures/incentives/investments are necessary? At what level? (Please explain): (optional)

Question 51

What is the net impact of increased digitalisation and automation in your industry/organisation on employment? *



Frequency table

Choices	Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
there are shifts in the value chain and profile of employees needed	1	1	100%	100%	100%	100%
Sum:	1	-	100%	-	100%	-
Not answered:	0	-	0%	-	-	-
Average: 3	Minimum: 3	3	Variance:			
Median: 3	Maximum: 3	3	Std. deviation:			

Total answered: 1

Text input

It remains unclear at this stage as to the overall impact of AI and robotics on the legal services market in the longer term. While there is some suggestion that there is a reduced need for junior lawyers, the increased use of robotics and AI opens up new areas of work for the legal profession.

Question 52

You have indicated that developments in robotics and AI have an impact on employment in your industry. Please explain, i.e. where are the gains or losses? What type of shifts in employment profiles are taking place? Which employee profiles are at risk, and which profiles are in demand? What kind of measures at EU level you would support to address the impacts on the labour market and employment structures? (optional)

Text input

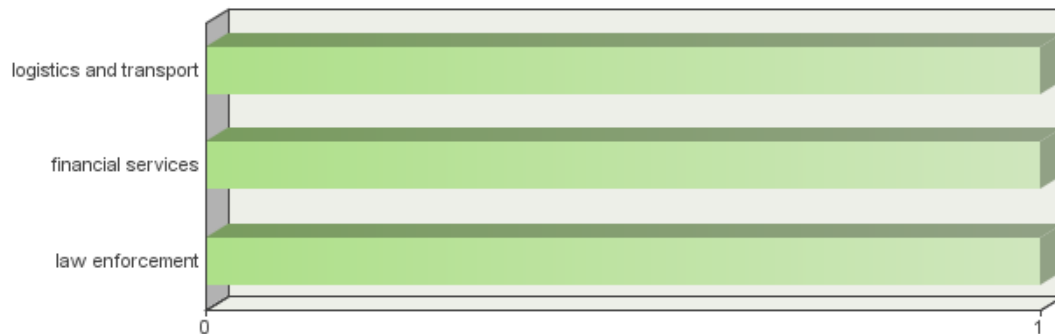
As noted, the introduction of AI and robotics means services of junior lawyers are no longer required in areas such as due diligence, discovery, drafting of simple contracts. This means there is the potential that demand for junior lawyers will reduce in the longer term. On the other side of the equation, however, the increase in the use of AI and robotics is opening up new areas of law and that draw on new legal skills. As such, it is likely that the nature of the types of skills required of lawyers will shift significantly in future. There will be an expectation that newly trained lawyers will have more technical expertise in AI and robotics, among other areas.

Question 53

What measures, should the EU adopt to address societal and economic risks related to the development and use of robotics and AI in your field? (optional)

Question 54

Which industry (sector) do you think will experience fastest economic growth in the next three-five years, due to the development and application of robotics and AI? (Maximum three answers): *



Frequency table

Choices	Absolute frequency	Cum. absolute frequency	Relative frequency by choice	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
logistics and transport	1	1	33.33%	100%	100%	100%	100%
financial services	1	2	33.33%	100%	200%	100%	200%
law enforcement	1	3	33.33%	100%	300%	100%	300%
Sum:	3	-	100%	-	-	-	-
Not answered:	0	-	-	0%	-	-	-
Average:	7.67	Minimum:	4	Variance:	10.33		
Median:	9	Maximum:	10	Std. deviation:	3.21		

Total answered: 1

Text input

Professional service providers more broadly.

Question 55

In your opinion, what are the key policy areas where EU intervention is most urgent? (max. three) *



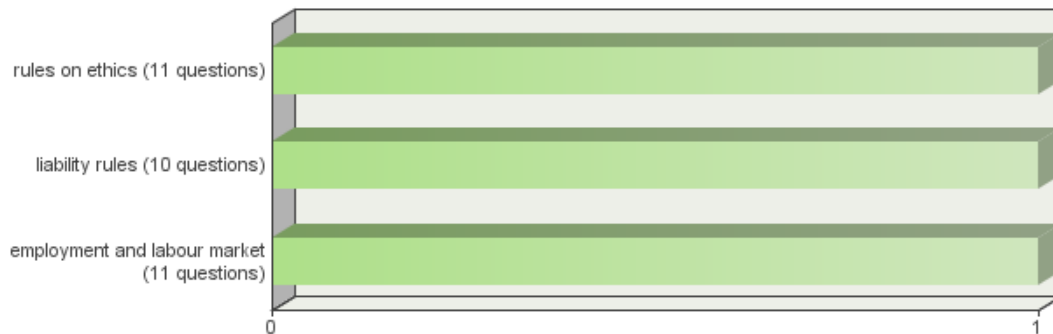
Frequency table

Choices	Absolute frequency	Cum. absolute frequency	Relative frequency by choice	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
drones	1	1	50%	100%	100%	100%	100%
technologies for human repair and enhancement	1	2	50%	100%	200%	100%	200%
Sum:	2	-	100%	-	-	-	-
Not answered:	0	-	-	0%	-	-	-
Average:	3.5	Minimum:	2	Variance:	4.5		
Median:	3.5	Maximum:	5	Std. deviation:	2.12		

Total answered: 1

Question 56

You are welcome to provide feedback to all six themes above, or selectively, only to those you find most urgent for your industry/organisation. Please select area(s) on which you would like to provide the answers. *



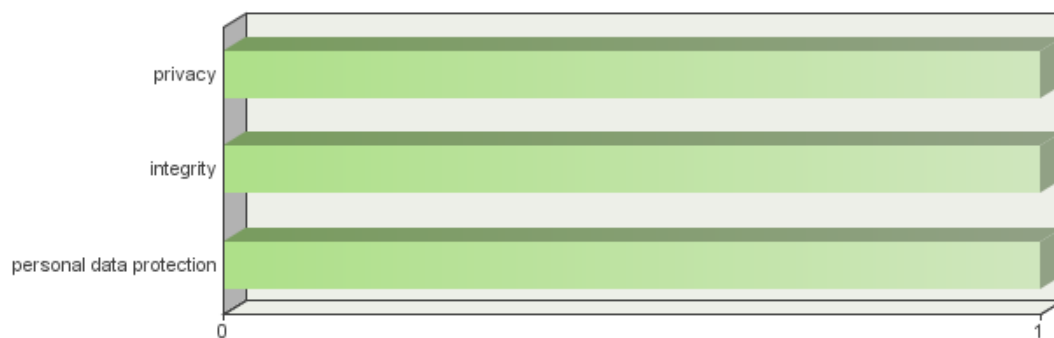
Frequency table

Choices	Absolute frequency	Cum. absolute frequency	Relative frequency by choice	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
rules on ethics (11 questions)	1	1	33.33%	100%	100%	100%	100%
liability rules (10 questions)	1	2	33.33%	100%	200%	100%	200%
employment and labour market (11 questions)	1	3	33.33%	100%	300%	100%	300%
Sum:	3	-	100%	-	-	-	-
Not answered:	0	-	-	0%	-	-	-
Average:	2.67	Minimum:	1	Variance:	4.33		
Median:	2	Maximum:	5	Std. deviation:	2.08		

Total answered: 1

Question 57

In your opinion, what are the main risks related to the use of autonomous robots and AI? (max. three choices) *



Frequency table

Choices	Absolute frequency	Cum. absolute frequency	Relative frequency by choice	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
privacy	1	1	33.33%	100%	100%	100%	100%
integrity	1	2	33.33%	100%	200%	100%	200%
personal data protection	1	3	33.33%	100%	300%	100%	300%
Sum:	3	-	100%	-	-	-	-
Not answered:	0	-	-	0%	-	-	-
Average:	6.33	Minimum:	4	Variance:	10.33		
Median:	5	Maximum:	10	Std. deviation:	3.21		

Total answered: 1

Question 58

Do you support the introduction of a common European definition for a smart robot? *



Frequency table

Choices		Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Neutral		1	1	100%	100%	100%	100%
Sum:		1	-	100%	-	100%	-
Not answered:		0	-	0%	-	-	-
Average:	3	Minimum:	3	Variance:			
Median:	3	Maximum:	3	Std. deviation:			

Total answered: 1

Question 59

In your opinion what key specific characteristics of a smart robot must be reflected in the definition of an autonomous robot *

No data to report

Question 60

Do you support the establishment of a registration system for advanced robots at EU level? *



Frequency table

Choices		Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Neutral		1	1	100%	100%	100%	100%
Sum:		1	-	100%	-	100%	-
Not answered:		0	-	0%	-	-	-
Average:	3	Minimum:	3	Variance:			
Median:	3	Maximum:	3	Std. deviation:			

Total answered: 1

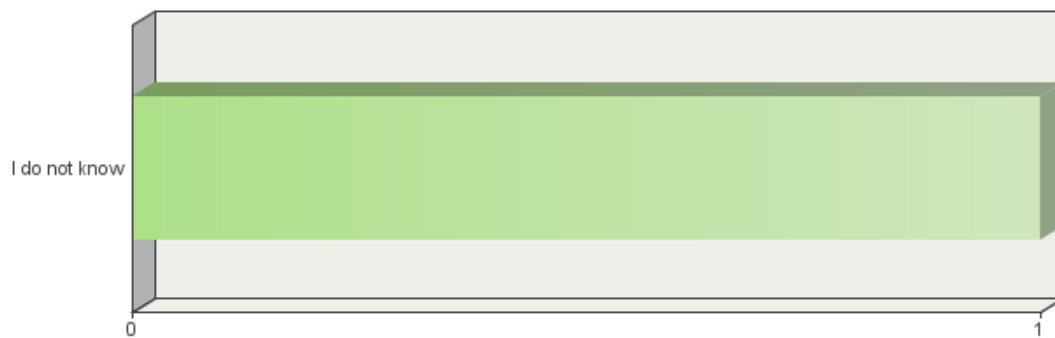
Question 61

In your opinion, this EU level registration system for advance robots should: *

No data to report

Question 62

Do you support the establishment of an EU level framework for socially and ethically conscious technological development? *



Frequency table

Choices	Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
I do not know	1	1	100%	100%	100%	100%
Sum:	1	-	100%	-	100%	-
Not answered:	0	-	0%	-	-	-
Average:	3	Minimum:	3	Variance:		
Median:	3	Maximum:	3	Std. deviation:		

Total answered: 1

Question 63

In your opinion, an EU ethical framework should apply to robots from the stage of *

No data to report

Question 64

Please indicate how important or unimportant you consider the following measures to support socially and ethically conscious technological development? *

No data to report

Question 65

You have indicated that a guiding ethical framework should be elaborated and adopted at EU level. In this context, how important are the following initiatives/codes of conduct? *

No data to report

Question 66

You have indicated that a code of conduct for robotic engineers should be elaborated and adopted at EU level. In this context, what in your view are the most important principles that should be included in the code of conduct? *

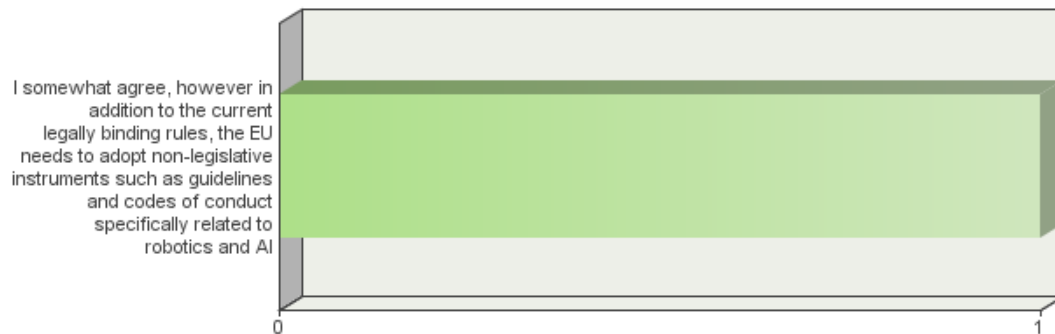
No data to report

Question 67

Should you have further observations about general principles and ethical issues guiding development, engineering and use of advanced robots or AI, please share your experience or suggestions here.

Question 68

Please indicate whether you agree or disagree with the following statement 'The current EU regulatory framework on liability is sufficient to address new developments in robotics and AI' *



Frequency table

Choices	Absolute frequency	Cum. absolute frequency	Relative frequency by choice	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
I somewhat agree, however in addition to the current legally binding rules, the EU needs to adopt non-legislative instruments such as guidelines and codes of conduct specifically related to robotics and AI	1	1	100%	100%	100%	100%	100%
Sum:	1	-	100%	-	-	-	-
Not answered:	0	-	-	0%	-	-	-
Average: 4	Minimum: 4	4	Variance:				
Median: 4	Maximum: 4	4	Std. deviation:				

Total answered: 1

Question 69

Do you agree with the following statement ‘Robots should have a specific legal status’? *



Frequency table

Choices		Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Neutral		1	1	100%	100%	100%	100%
Sum:		1	-	100%	-	100%	-
Not answered:		0	-	0%	-	-	-
Average:	3	Minimum:	3	Variance:			
Median:	3	Maximum:	3	Std. deviation:			

Total answered: 1

Question 70

Please indicate to what extent you agree or disagree with the each of the following statements related to the type of legal status robots should have: *

Levels Robots should be regarded as natural persons (i.e. humans).



Frequency table

Levels	Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Neither agree or disagree	1	1	100%	100%	100%	100%
Sum:	1	-	100%	-	100%	-
Not answered:	0	-	0%	-	-	-
Average: 3	Minimum: 3	3	Variance:			
Median: 3	Maximum: 3	3	Std. deviation:			

Total answered: 1

Levels Robots should be regarded as legal persons (i.e. companies).



Frequency table

Levels	Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Neither agree or disagree	1	1	100%	100%	100%	100%
Sum:	1	-	100%	-	100%	-
Not answered:	0	-	0%	-	-	-
Average: 3	Minimum: 3	3	Variance:			
Median: 3	Maximum: 3	3	Std. deviation:			
Total answered: 1						

Levels Robots should be regarded as animals or objects.



Frequency table

Levels	Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Neither agree or disagree	1	1	100%	100%	100%	100%
Sum:	1	-	100%	-	100%	-
Not answered:	0	-	0%	-	-	-
Average: 3	Minimum: 3	3	Variance:			
Median: 3	Maximum: 3	3	Std. deviation:			
Total answered: 1						

Levels A new category should be created, with its own specific features and implications as regards attribution of rights and duties, including liability for damages.



Frequency table

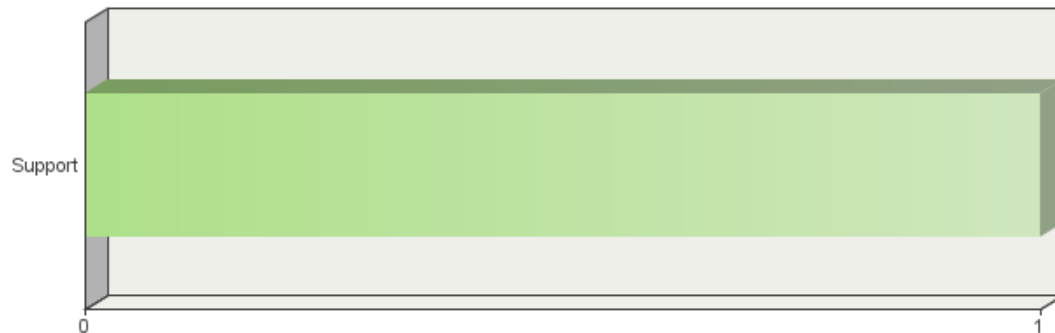
Levels			Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Agree			1	1	100%	100%	100%	100%
Sum:			1	-	100%	-	100%	-
Not answered:			0	-	0%	-	-	-
Average:	2	Minimum:	2		Variance:			
Median:	2	Maximum:	2		Std. deviation:			

Total answered: 1

Question 71

Please indicate to what extent you support or oppose each of the following statements related to the allocation of risks related to the use of autonomous robots: *

Levels Strict liability for manufacturers



Frequency table

Levels	Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Support	1	1	100%	100%	100%	100%
Sum:	1	-	100%	-	100%	-
Not answered:	0	-	0%	-	-	-
Average:	2	Minimum:	2	Variance:		
Median:	2	Maximum:	2	Std. deviation:		

Total answered: 1

Levels Strict liability for owners



Frequency table

Levels	Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Neutral	1	1	100%	100%	100%	100%
Sum:	1	-	100%	-	100%	-
Not answered:	0	-	0%	-	-	-
Average:	3	Minimum:	3	Variance:		
Median:	3	Maximum:	3	Std. deviation:		

Total answered: 1

Levels Strict liability for users



Frequency table

Levels	Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Neutral	1	1	100%	100%	100%	100%
Sum:	1	-	100%	-	100%	-
Not answered:	0	-	0%	-	-	-
Average:	3	Minimum:	3	Variance:		
Median:	3	Maximum:	3	Std. deviation:		

Total answered: 1

Question 72

Please indicate your opinion regarding which issues related to the regulation of liability and damages require the most urgent intervention at EU level: *



Frequency table

Choices	Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
contractual liability of machine-to-machine contracts	1	1	100%	100%	100%	100%
Sum:	1	-	100%	-	100%	-
Not answered:	0	-	0%	-	-	-
Average:	1	Minimum:	1	Variance:		
Median:	1	Maximum:	1	Std. deviation:		

Total answered: 1

Question 73

Please indicate to what extent you support or oppose the establishment of an obligatory insurance scheme for damages caused by autonomous robots: *



Frequency table

Choices	Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
neutral	1	1	100%	100%	100%	100%
Sum:	1	-	100%	-	100%	-
Not answered:	0	-	0%	-	-	-
Average:	3	Minimum:	3	Variance:		
Median:	3	Maximum:	3	Std. deviation:		

Total answered: 1

Question 74

Please provide suggestions as to what should be the scope of the coverage of this insurance scheme, i.e. what risks it should cover: (optional)

Question 75

Please indicate to what extent you support or oppose the establishment of a compulsory insurance and compensation fund

*



Frequency table

Choices	Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
neutral	1	1	100%	100%	100%	100%
Sum:	1	-	100%	-	100%	-
Not answered:	0	-	0%	-	-	-
Average:	3	Minimum:	3	Variance:		
Median:	3	Maximum:	3	Std. deviation:		

Total answered: 1

Question 76

Please provide suggestions as to how this compulsory insurance scheme should be operated: (optional)

Question 77

Should you have further observations about liability issues please share your experience or suggestions here: (optional)

Question 78

Please indicate to what extent you support or oppose the following statements on the necessity for EU action(s) related to connectivity, intellectual property rights, and the flow of data? The EU should take action(s) ... *

No data to report

Question 79

What issues related to developments in the robotics and AI sector should the EU address as a matter of priority? (max. three choices) *

No data to report

Question 80

In your opinion, what are the biggest (1) benefits and/or (2) obstacles and deficiencies related to intellectual property rights, connectivity, and flow of data in the current EU regulatory framework?

Question 81

Should you have further observations about connectivity, intellectual property rights, and the flow of data, please share your experience or suggestions here: (optional)

Question 82

Please indicate, whether you agree or disagree with the following statements: 'the development of EU standards in the field of AI and robotics technologies are of key importance ...' *

No data to report

Question 83

Please indicate how important or unimportant the following EU actions in the area of standardisation, safety and security, are for your industry? *

No data to report

Question 84

In your opinion, what are the biggest (1) benefits and/or (2) obstacles and deficiencies in the current EU regulatory framework related to standardisation, safety and security for robotics and AI?"

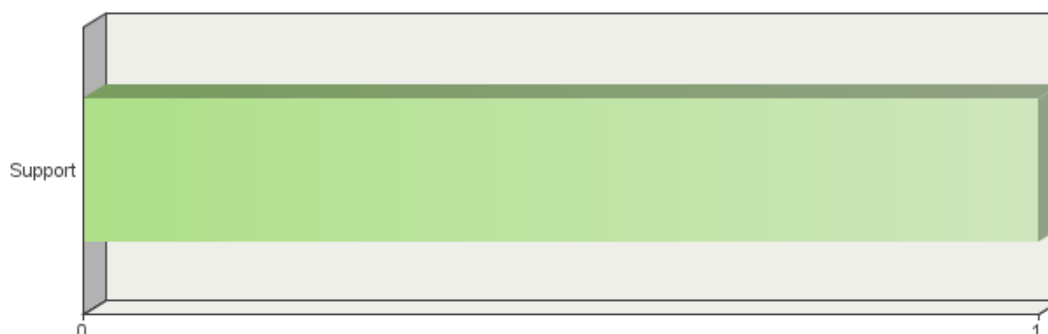
Question 85

Should you have further observations about standardisation, safety and security, please share your experience or suggestions here:

Question 86

Please indicate to what extent you support or oppose the following statements related to the necessity for EU action(s) in the area of education and employment in the context of technological developments in robotics and AI: 'the EU should take action(s) ...' *

Levels to support women in information and communication technologies (ICT).



Frequency table

Levels	Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Support	1	1	100%	100%	100%	100%
Sum:	1	-	100%	-	100%	-
Not answered:	0	-	0%	-	-	-
Average:	2	Minimum:	2	Variance:		
Median:	2	Maximum:	2	Std. deviation:		

Total answered: 1

Levels to modernise educational systems to boost e-skills and competences.



Frequency table

Levels	Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Support	1	1	100%	100%	100%	100%
Sum:	1	-	100%	-	100%	-
Not answered:	0	-	0%	-	-	-
Average: 2	Minimum: 2	2	Variance:			
Median: 2	Maximum: 2	2	Std. deviation:			
Total answered: 1						

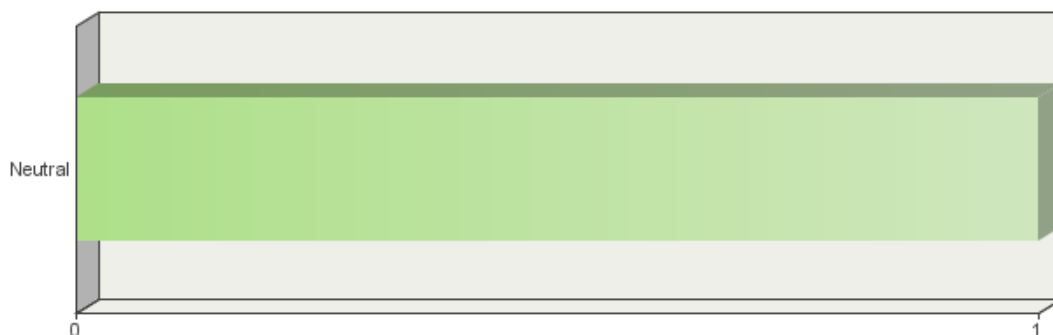
Levels to support training and retraining of people already in the labour market.



Frequency table

Levels	Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Support	1	1	100%	100%	100%	100%
Sum:	1	-	100%	-	100%	-
Not answered:	0	-	0%	-	-	-
Average: 2	Minimum: 2	2	Variance:			
Median: 2	Maximum: 2	2	Std. deviation:			
Total answered: 1						

Levels to support occupational health and safety at work.



Frequency table

Levels	Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Neutral	1	1	100%	100%	100%	100%
Sum:	1	-	100%	-	100%	-
Not answered:	0	-	0%	-	-	-
Average: 3	Minimum: 3	3	Variance:			
Median: 3	Maximum: 3	3	Std. deviation:			

Total answered: 1

Levels to support the involvement of social partners.

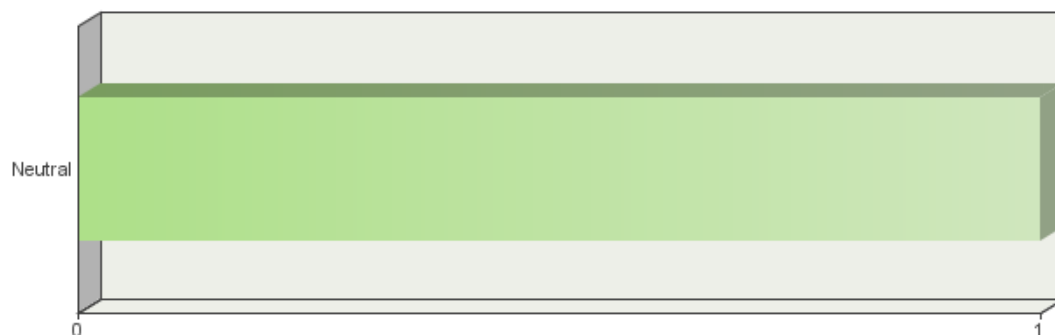


Frequency table

Levels	Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Neutral	1	1	100%	100%	100%	100%
Sum:	1	-	100%	-	100%	-
Not answered:	0	-	0%	-	-	-
Average: 3	Minimum: 3	3	Variance:			
Median: 3	Maximum: 3	3	Std. deviation:			

Total answered: 1

Levels to reduce inequalities and social exclusion.



Frequency table

Levels	Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Neutral	1	1	100%	100%	100%	100%
Sum:	1	-	100%	-	100%	-
Not answered:	0	-	0%	-	-	-
Average: 3	Minimum: 3	3	Variance:			
Median: 3	Maximum: 3	3	Std. deviation:			

Total answered: 1

Levels to develop mechanisms for job security, i.e. working and career patterns shaped by digitalisation.



Frequency table

Levels	Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Neutral	1	1	100%	100%	100%	100%
Sum:	1	-	100%	-	100%	-
Not answered:	0	-	0%	-	-	-
Average: 3	Minimum: 3	3	Variance:			
Median: 3	Maximum: 3	3	Std. deviation:			

Total answered: 1

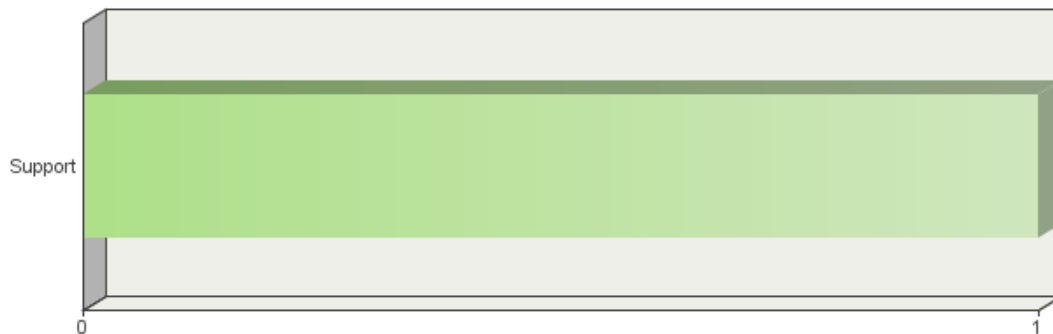
Levels to systematically monitor what types of jobs and tasks are taken by robots.



Frequency table

		Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Levels							
Support		1	1	100%	100%	100%	100%
Sum:		1	-	100%	-	100%	-
Not answered:		0	-	0%	-	-	-
Average:	2	Minimum:	2	Variance:			
Median:	2	Maximum:	2	Std. deviation:			
Total answered: 1							

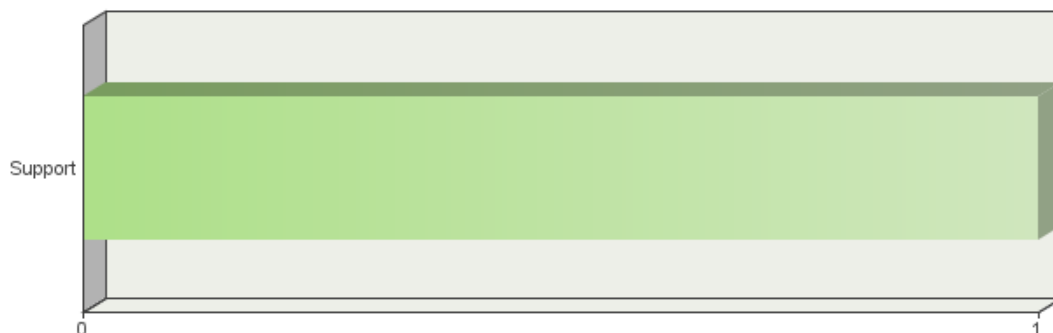
Levels to systematically monitor what new types of jobs are created as a result of developments in robotics and AI.



Frequency table

Levels		Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Support		1	1	100%	100%	100%	100%
Sum:		1	-	100%	-	100%	-
Not answered:		0	-	0%	-	-	-
Average:	2	Minimum:	2	Variance:			
Median:	2	Maximum:	2	Std. deviation:			
Total answered: 1							

Levels to systematically analyse what societal challenges arise.



Frequency table

Levels			Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Support			1	1	100%	100%	100%	100%
Sum:			1	-	100%	-	100%	-
Not answered:			0	-	0%	-	-	-
Average:	2	Minimum:	2	Variance:				
Median:	2	Maximum:	2	Std. deviation:				

Total answered: 1

Question 87

Based on the developments in your industry related to and resulting from use of robots and AI, please indicate whether you agree or disagree with the following statement:
'there is mismatch between skills available on the labour market and the skills necessary'. *



Frequency table

Choices			Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
agree			1	1	100%	100%	100%	100%
Sum:			1	-	100%	-	100%	-
Not answered:			0	-	0%	-	-	-
Average:	2	Minimum:	2	Variance:				
Median:	2	Maximum:	2	Std. deviation:				

Total answered: 1

Question 88

Please indicate to what extent you agree or disagree with the introduction of corporate reporting requirements on the extent and proportion of the contribution of robotics and AI to the economic results of a company for the purpose of social security contributions: *



Frequency table

Choices			Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
agree			1	1	100%	100%	100%	100%
Sum:			1	-	100%	-	100%	-
Not answered:			0	-	0%	-	-	-
Average:	2	Minimum:	2	Variance:				
Median:	2	Maximum:	2	Std. deviation:				

Total answered: 1

Question 89

Please indicate to what extent you support or oppose introduction of corporate reporting requirements on the extent and proportion of the contribution of robotics and AI to the economic results of a company for the purpose of taxation: *



Frequency table

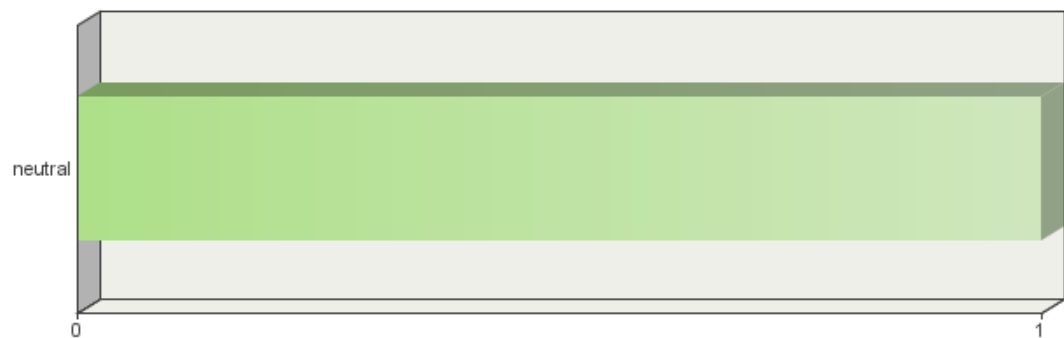
Choices		Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
agree		1	1	100%	100%	100%	100%
Sum:		1	-	100%	-	100%	-
Not answered:		0	-	0%	-	-	-
Average:	2	Minimum:	2	Variance:			
Median:	2	Maximum:	2	Std. deviation:			

Total answered: 1

Question 90

Please indicate whether you agree or disagree with the following statement:

‘considering developments in the area of robotics and AI, social security systems need to be adjusted to provide appropriate protection to employees’. *



Frequency table

Choices			Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
neutral			1	1	100%	100%	100%	100%
Sum:			1	-	100%	-	100%	-
Not answered:			0	-	0%	-	-	-
Average:	3	Minimum:	3	Variance:				
Median:	3	Maximum:	3	Std. deviation:				

Total answered: 1

Question 91

Please indicate whether you agree or disagree with the following statement:

'considering developments in the area of robotics and AI, labour laws need to be adjusted to provide appropriate protection to employees'. *



Frequency table

Choices	Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
neutral	1	1	100%	100%	100%	100%
Sum:	1	-	100%	-	100%	-
Not answered:	0	-	0%	-	-	-
Average: 3	Minimum: 3	3	Variance:			
Median: 3	Maximum: 3	3	Std. deviation:			

Total answered: 1

Question 92

Please indicate whether you agree or disagree with the following statement:

'restrictions or a ban on partial or total automation of certain tasks or jobs should be introduced in order to guarantee safety'. *



Frequency table

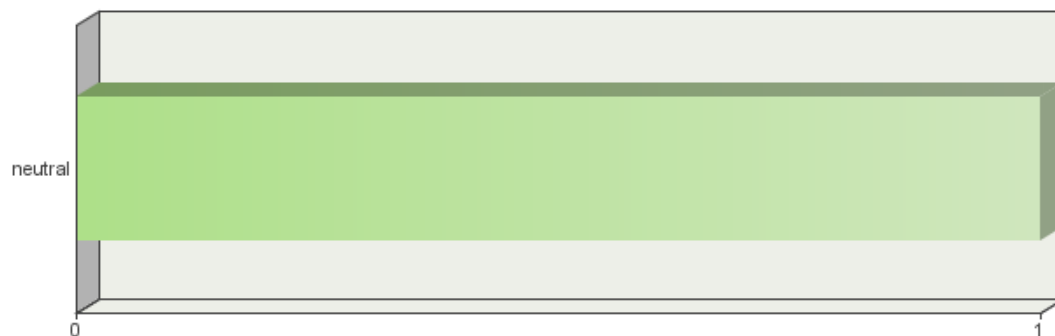
Choices	Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
neutral	1	1	100%	100%	100%	100%
Sum:	1	-	100%	-	100%	-
Not answered:	0	-	0%	-	-	-
Average:	3	Minimum:	3	Variance:		
Median:	3	Maximum:	3	Std. deviation:		

Total answered: 1

Question 93

Please indicate whether you agree or disagree with the following statement:

'restrictions or a ban on partial or total automation of certain tasks or jobs should be introduced in order to guarantee respect of fundamental human rights'. *



Frequency table

Choices	Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
neutral	1	1	100%	100%	100%	100%
Sum:	1	-	100%	-	100%	-
Not answered:	0	-	0%	-	-	-
Average: 3	Minimum: 3	3	Variance:			
Median: 3	Maximum: 3	3	Std. deviation:			

Total answered: 1

Question 94

Please indicate, in which areas you consider that the use of fully autonomous robots should be banned or restricted: *



Frequency table

Choices	Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
None	1	1	100%	100%	100%	100%
Sum:	1	-	100%	-	100%	-
Not answered:	0	-	0%	-	-	-
Average:	12	Minimum:	12	Variance:		
Median:	12	Maximum:	12	Std. deviation:		

Total answered: 1

Text input

On a personal level, I query the benefit of banning or restricting technological developments.

Question 95

Please indicate whether you agree or disagree with the following statement:

'in the light of the possible effects on the labour market of robotics and AI, a general basic income should be introduced'. *



Frequency table

Choices	Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
agree	1	1	100%	100%	100%	100%
Sum:	1	-	100%	-	100%	-
Not answered:	0	-	0%	-	-	-
Average:	2	Minimum:	2	Variance:		
Median:	2	Maximum:	2	Std. deviation:		

Total answered: 1

Text input

This is a personal opinion.

Question 96

Should you have further observations about education and employment as related to the issues of robotics and AI please share your experience or suggestions here

Question 97

In your opinion, in order to provide the technical, ethical and regulatory expertise on developments in the area of robotics and AI: *

No data to report

Question 98

You have indicated support for the establishment of a new EU-level European agency for robotics and artificial intelligence. In your opinion, what task(s) should this agency fulfil? *

No data to report

Question 99

You have indicated support for tasks related to robotics and AI to be designated to an existing EU agency, which agency do you propose? *

No data to report

Question 100

Should you have further observations about institutional cooperation and oversight, please share your experience or suggestions here

Question 101

Please provide details of any other issues related to robotics and AI to which you would like to draw the European Parliament's attention, or which you consider should be addressed. (optional)

Question 102

Please provide references to any studies or documents that you think are relevant for this consultation. If possible, please provide links. (optional)

Question 103

Please provide information on any successful initiatives at regional, national or international level related to robotics and AI that could support the European Parliament in considering further actions. (optional)

Question 104

Please provide information on any negative experiences or impacts at regional, national or international level related to robotics and AI that could support the European Parliament in considering further actions. (optional)