general public

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Report info

Report date:	Thursday, September 21, 2017 4:41:40 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:	5

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: *
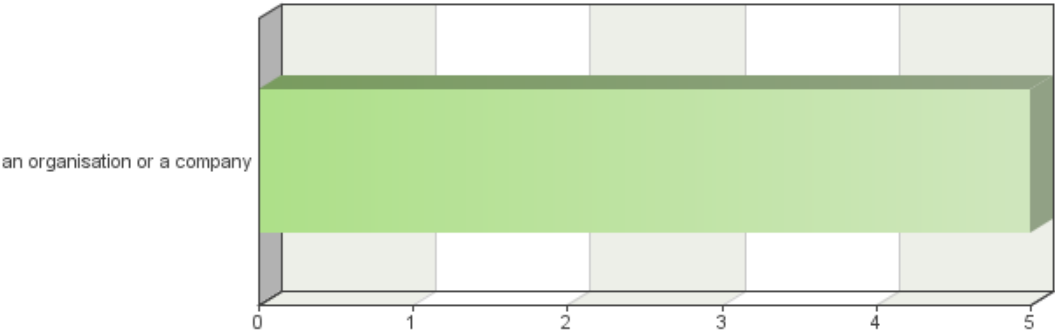
Frequency table

Choices		Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
an organisation or a company		5	5	100%	100%	100%	100%
Sum:		5	-	100%	-	100%	-
Not answered:		0	-	0%	-	-	-
Average:	2	Minimum:	2		Variance:	0	
Median:	2	Maximum:	2		Std. deviation:	0	

Total answered: 5

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 provided that I/my organisation remain(s) anonymous (I consent to publication of any information in my contribution in whole or in part (which may include quotes or opinions I express) provided that this is done anonymously. 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. I am aware that I am solely responsible if my answer accidentally reveals my identity.	5	5	100%	100%	100%	100%
Sum:	5	-	100%	-	100%	-
Not answered:	0	-	0%	-	-	-

Average:	2	Minimum:	2	Variance:	0
Median:	2	Maximum:	2	Std. deviation:	0

Total answered: 5

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.

Frequency table

Choices		Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Yes		1	1	20%	20%	20%	20%
No		4	5	80%	100%	80%	100%
Sum:		5	-	100%	-	100%	-
Not answered:		0	-	0%	-	-	-
Average:	1.8	Minimum:	1		Variance:	0.2	
Median:	2	Maximum:	2		Std. deviation:	0.45	

Total answered: 5

Question 10

Please indicate the type of organisation or company: *
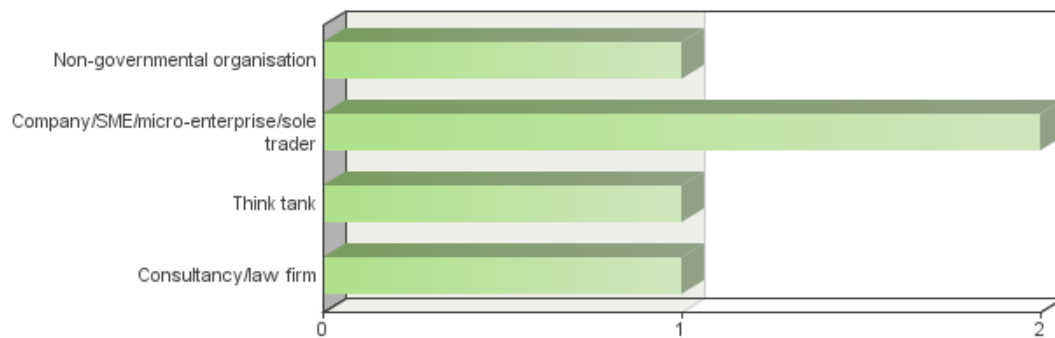
Frequency table

Choices	Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Non-governmental organisation	1	1	20%	20%	20%	20%
Company/SME/micro-enterprise/sole trader	2	3	40%	60%	40%	60%
Think tank	1	4	20%	80%	20%	80%
Consultancy/law firm	1	5	20%	100%	20%	100%
Sum:	5	-	100%	-	100%	-
Not answered:	0	-	0%	-	-	-

Average:	4	Minimum:	2	Variance:	5.5	
Median:	3	Maximum:	8	Std. deviation:	2.35	

Total answered: 5

Question 11

Please specify the type of organisation: (optional)

Text input
The Slovak Alliance for Innovative Economy
SAS

Question 12

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

No data to report

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)? *

Frequency table

Choices		Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Yes		1	1	20%	20%	20%	20%
No		4	5	80%	100%	80%	100%
Sum:		5	-	100%	-	100%	-
Not answered:		0	-	0%	-	-	-
Average:	1.8	Minimum:	1		Variance:	0.2	
Median:	2	Maximum:	2		Std. deviation:	0.45	

Total answered: 5

Question 15

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

Frequency table

Choices		Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Yes		1	1	20%	20%	100%	100%
Sum:		1	-	20%	-	100%	-
Not answered:		4	-	80%	-	-	-
Average:	1	Minimum:	1		Variance:		
Median:	1	Maximum:	1		Std. deviation:		

Total answered: 1

Question 16

How many employees does your company have? *
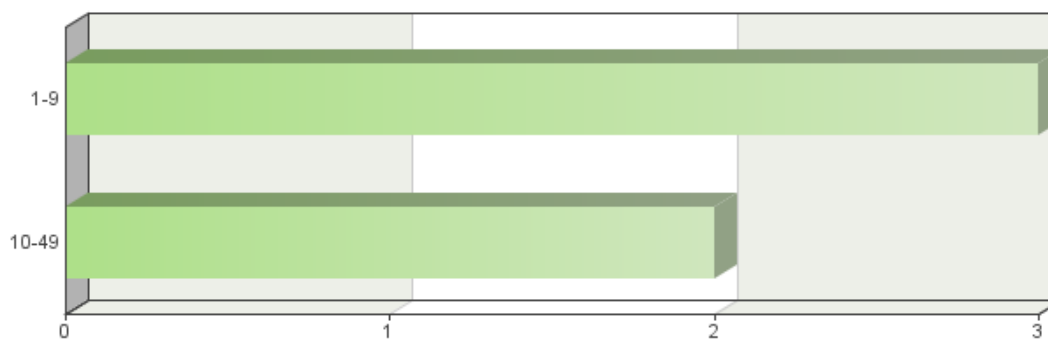
Frequency table

Choices		Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
1-9		3	3	60%	60%	60%	60%
10-49		2	5	40%	100%	40%	100%
Sum:		5	-	100%	-	100%	-
Not answered:		0	-	0%	-	-	-
Average:	1.4	Minimum:	1		Variance:	0.3	
Median:	1	Maximum:	2		Std. deviation:	0.55	

Total answered: 5

Question 17

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

Text input
INEX is a technical and environmental engineering firm specializing in fluids. Over the last 30 years, INEX has provided expertise in the design of climate engineering, sanitary engineering, electrical engineering and environmental engineering to public and private contractors and architects. INEX has acquired a great mastery of the most advanced technologies as well as constraints, sometimes severe, of deadlines, costs and quality. The greatest French and foreign architects and contractors call on INEX for its capacity of commitment, reactivity and creativity. Today INEX's success in the management of complex engineering projects corresponds to a long upstream monitoring effort. As for its control over future projects, INEX seeks to anticipate technological and societal developments, notably on the quality of the environment and its preservation.
Organising AI conferences and hackathons, facilitating AI community.
Conception, réalisation, production d'un robot compagnon destiné à aux personnes isolées, ainsi que les logiciels et API nécessaires à son fonctionnement

Question 18

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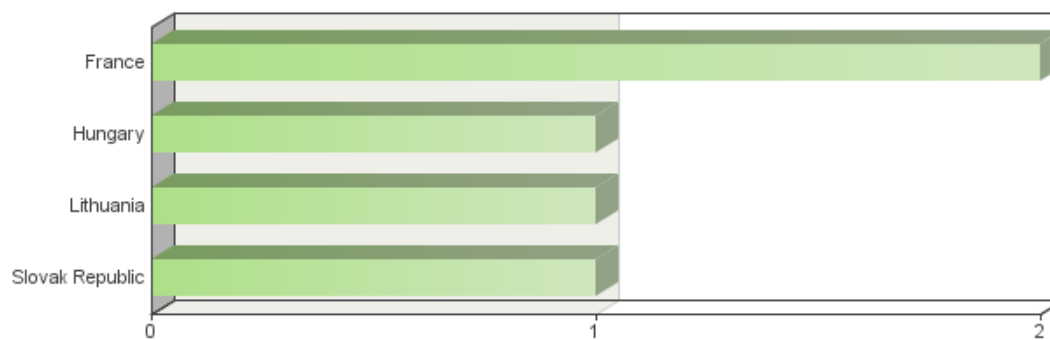
Frequency table

Choices		Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
France		2	2	40%	40%	40%	40%
Hungary		1	3	20%	60%	20%	60%
Lithuania		1	4	20%	80%	20%	80%
Slovak Republic		1	5	20%	100%	20%	100%
Sum:		5	-	100%	-	100%	-
Not answered:		0	-	0%	-	-	-
Average:	15.8	Minimum:	10		Variance:	52.7	
Median:	13	Maximum:	27		Std. deviation:	7.26	

Total answered: 5

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).
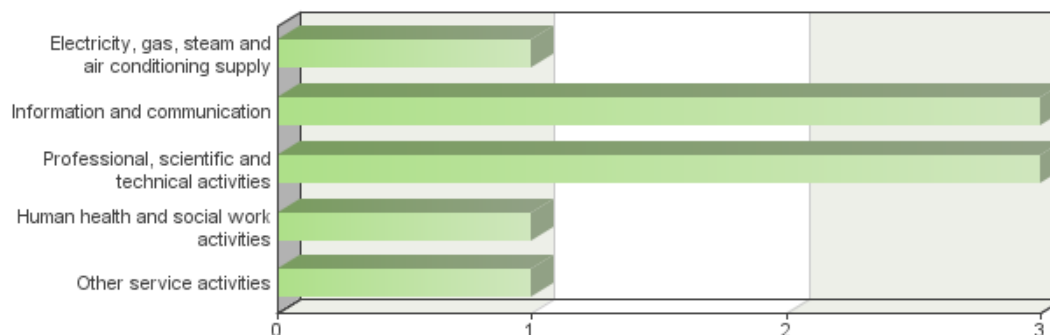
Frequency table

Choices	Absolute frequency	Cum. absolute frequency	Relative frequency by choice	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Electricity, gas, steam and air conditioning supply	1	1	11.11%	20%	20%	20%	20%
Information and communication	3	4	33.33%	60%	80%	60%	80%
Professional, scientific and technical activities	3	7	33.33%	60%	140%	60%	140%
Human health and social work activities	1	8	11.11%	20%	160%	20%	160%
Other service activities	1	9	11.11%	20%	180%	20%	180%
Sum:	9	-	100%	-	-	-	-
Not answered:	0	-	-	0%	-	-	-

Average:	11.89	Minimum:	4	Variance:	16.36
Median:	13	Maximum:	18	Std. deviation:	4.04

Total answered: 5

Question 20

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

Frequency table

Choices		Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
No		5	5	100%	100%	100%	100%
Sum:		5	-	100%	-	100%	-
Not answered:		0	-	0%	-	-	-
Average:	1	Minimum:	1		Variance:	0	
Median:	1	Maximum:	1		Std. deviation:	0	

Total answered: 5

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? *
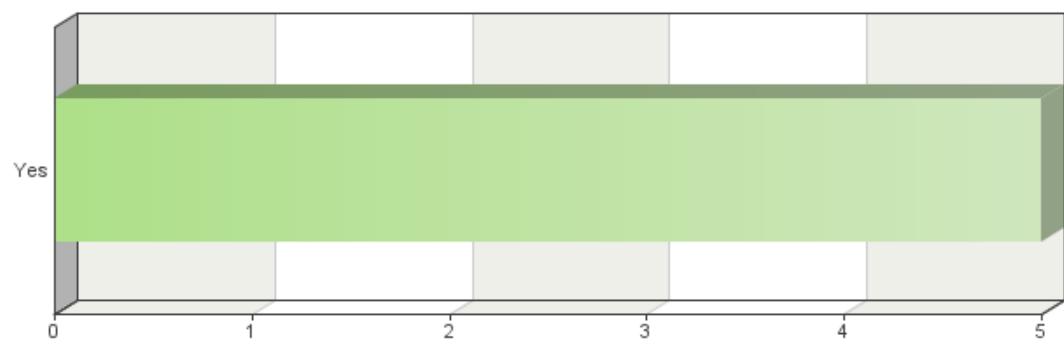
Frequency table

Choices		Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Yes		5	5	100%	100%	100%	100%
Sum:		5	-	100%	-	100%	-
Not answered:		0	-	0%	-	-	-
Average:	1	Minimum:	1		Variance:	0	
Median:	1	Maximum:	1		Std. deviation:	0	

Total answered: 5

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? *
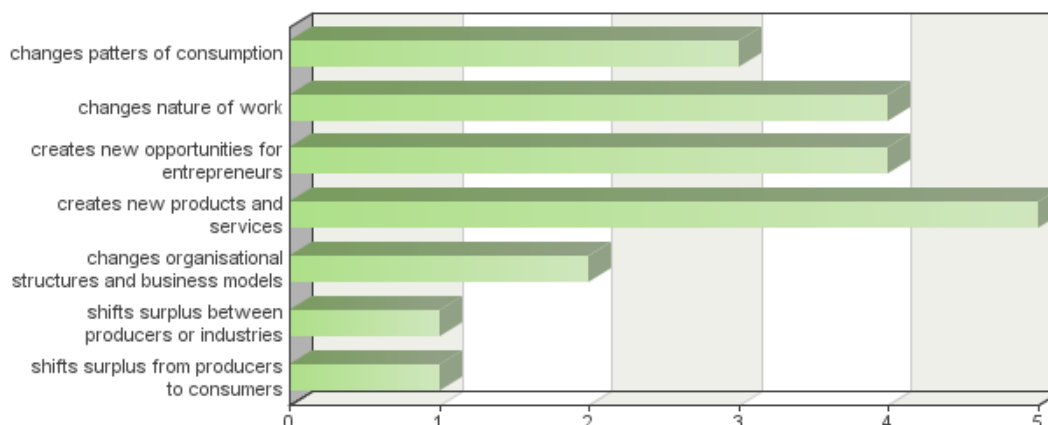
Frequency table

Choices	Absolute frequency	Cum. absolute frequency	Relative frequency by choice	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
changes patters of consumption	3	3	15%	60%	60%	60%	60%
changes nature of work	4	7	20%	80%	140%	80%	140%
creates new opportunities for entrepreneurs	4	11	20%	80%	220%	80%	220%
creates new products and services	5	16	25%	100%	320%	100%	320%
changes organisational structures and business models	2	18	10%	40%	360%	40%	360%
shifts surplus between producers or industries	1	19	5%	20%	380%	20%	380%
shifts surplus from producers to consumers	1	20	5%	20%	400%	20%	400%
Sum:	20	-	100%	-	-	-	-
Not answered:	0	-	-	0%	-	-	-

Average:	3.3	Minimum:	1	Variance:	2.75
Median:	3	Maximum:	7	Std. deviation:	1.66

Total answered: 5

Text input

In france, in a sector where constraints impose more and more complexity, the transformation of the construction sector must integrate digital. This involves the deployment of technology to transfer intelligence to design, then to construction, and then to operation. The AI makes it possible to combine and multiply the capacities of the current systems provided that this transfer is made between partners.

Notre entreprise développe un robot autonome par commande vocale. La robotique nous permet de créer une activité nouvelle, à l'origine de l'entreprise et l'IA permet d'une part de réduire les coûts du produit (certain composants coûteux - ie camera 3D - peuvent être remplacé par des composants bas coût couplé à du deep learning - ie camera 2D + Deep Learning), d'autre part par les progrès de la branche NLP d'imaginer une interaction uniquement vocale avec une machine.

Question 41

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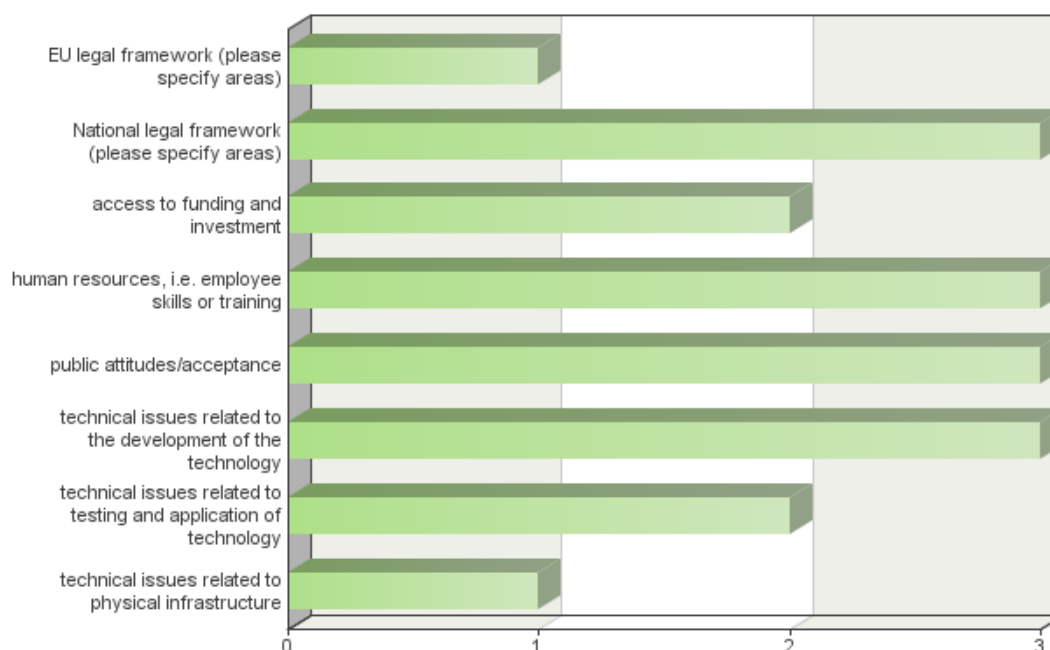
Frequency table

Choices	Absolute frequency	Cum. absolute frequency	Relative frequency by choice	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
EU legal framework (please specify areas)	1	1	5.56%	20%	20%	20%	20%
National legal framework (please specify areas)	3	4	16.67%	60%	80%	60%	80%
access to funding and investment	2	6	11.11%	40%	120%	40%	120%
human resources, i.e. employee skills or training	3	9	16.67%	60%	180%	60%	180%
public attitudes/acceptance	3	12	16.67%	60%	240%	60%	240%
technical issues related to the development of the technology	3	15	16.67%	60%	300%	60%	300%
technical issues related to testing and application of technology	2	17	11.11%	40%	340%	40%	340%
technical issues related to physical infrastructure	1	18	5.56%	20%	360%	20%	360%
Sum:	18	-	100%	-	-	-	-
Not answered:	0	-	-	0%	-	-	-

Average:	4.44	Minimum:	1		Variance:	4.03	
Median:	4.5	Maximum:	8		Std. deviation:	2.01	

Total answered: 5

Text input

To date there is no regulation on the responsibilities of an intelligence towards a third party or third parties. It is necessary to create this regulation however it must not under any circumstances curb the prototypes that are currently carried out so as not to limit the creative potential of such a technology.

Lack of re-skilling opportunities, overcoming fear of consumers and policy makers

shortage of talent, lack of re- skilling opportunities, overcoming fear of consumers and policy makers vs. pragmatic and facts based informed discussion

Manque de transparence ou d'eplication sur les critères d'attribution de fonds européen Les profils disponibles sur le marché de l'emplois sont rares. Les formations universitaires en IA forme des "créateur d'IA", le besoins de beaucoup d'entreprises est d'avoir des "concepteur de système embarquant des IA" ou des "entraineurs d'IA"

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.
*
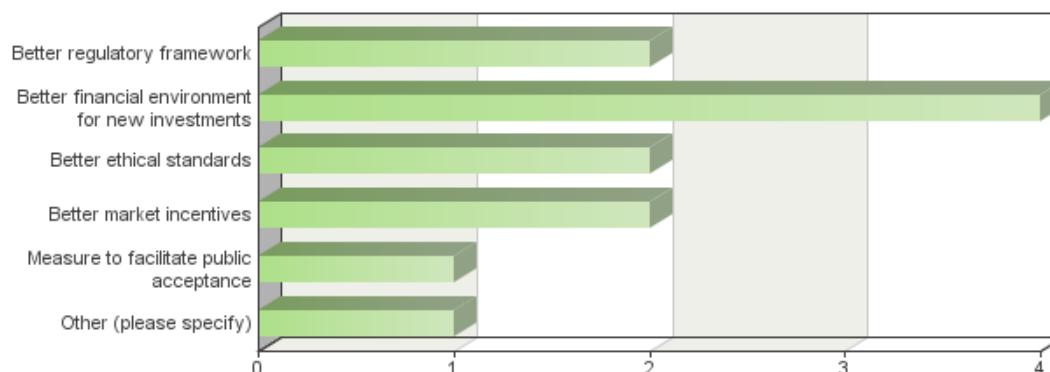
Frequency table

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		2	2	16.67%	40%	40%	40%	40%
Better financial environment for new investments		4	6	33.33%	80%	120%	80%	120%
Better ethical standards		2	8	16.67%	40%	160%	40%	160%
Better market incentives		2	10	16.67%	40%	200%	40%	200%
Measure to facilitate public acceptance		1	11	8.33%	20%	220%	20%	220%
Other (please specify)		1	12	8.33%	20%	240%	20%	240%
Sum:		12	-	100%	-	-	-	-
Not answered:		0	-	-	0%	-	-	-
Average:	3.5	Minimum:		1		Variance:	4.82	
Median:	3	Maximum:		8		Std. deviation:	2.2	

Total answered: 5

Text input

We need to reassure investors and public opinion, and create an eco-system in order to make a chain of partners more reliable. Europe has the capacity to be the leader in all or part of this international market. 1 / the creation of groups of companies by cooptations such as that exists on social networks would make the partners more reliable 2 / Giving visibility to the demonstrators that will be created will make it possible to master a know-how, and to show what an AI is and how it works.

Regulatory flexibility for AI (A clearer regulatory framework around specific applications of the technology rather than an all-encompassing generic regulation covering all AI/robotic applications), consumer needs driven support of research, ways to encourage and empower European SMEs and Startups to benefit from AI, collect concrete case studies

Favoriser l'investissement en R&D pour faire de l'UE un territoire d'excellence et encourager la dissemination dans les entreprises. Mettre en place un cadre réglementaire et éthique pour éviter des phénomènes de "dumping" sur le territoire communautaire ou des phénomène de "pillage de valeurs" à travers l'aspiration des données des citoyens européens. Avoir des exigences qualitatives vis à vis du citoyen ainsi que des objectifs de participation au projet européen à travers le paiement de l'impôt correspondant à la valeur générée en Europe.

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. *
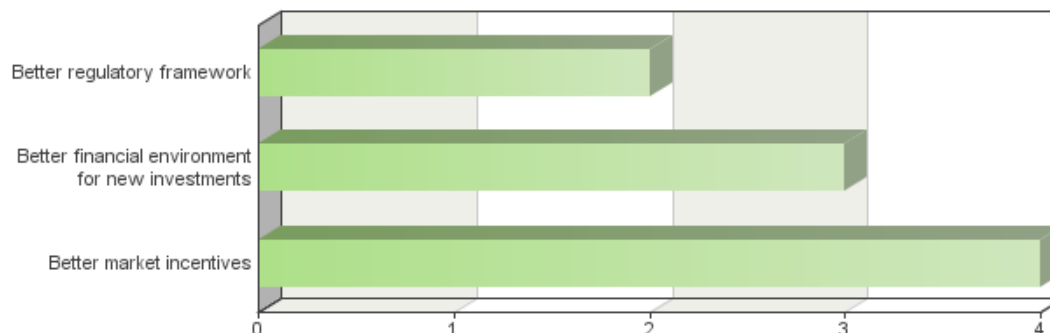
Frequency table

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	2	2	22.22%	40%	40%	40%	40%
Better financial environment for new investments	3	5	33.33%	60%	100%	60%	100%
Better market incentives	4	9	44.44%	80%	180%	80%	180%
Sum:	9	-	100%	-	-	-	-
Not answered:	0	-	-	0%	-	-	-

Average:	3.11	Minimum:	1	Variance:	3.36
Median:	2	Maximum:	5	Std. deviation:	1.83

Total answered: 5

Text input

The AI has the ability to adapt to its environment. Under the generic name of AI we find different levels of complexity that meet different expectations (an industrialist does not have the same expectations of interaction as an individual). This means creating ethical rules, depending on the application, the end user, in order to protect what is sensitive. Create a variable geometry framework to create trust

Donner les outils financiers aux startups d'arriver les premières sur ce marché, ainsi que les moyens de leur croissance. Inciter les grands groupes déjà établi, à développer leur services liés à l'IA en Europe

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. *
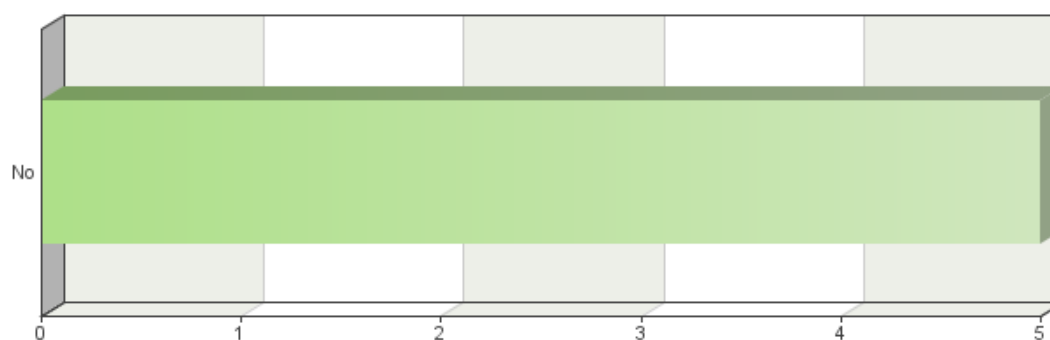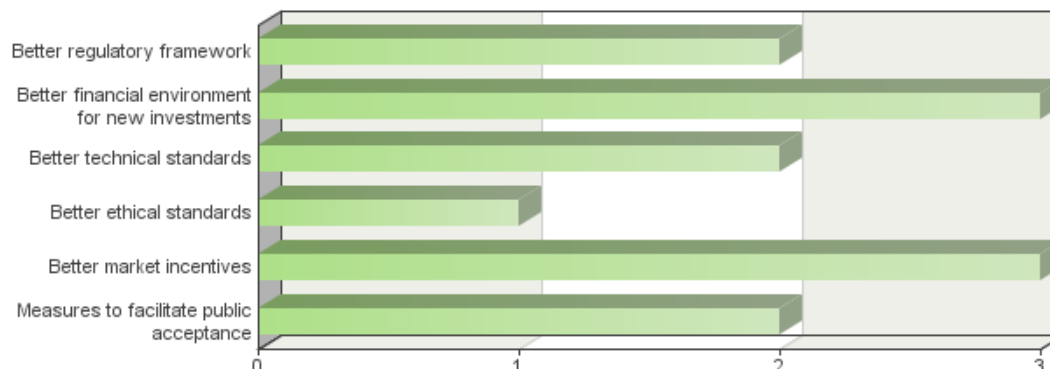

Frequency table

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	2	2	15.38%	40%	40%	40%	40%
Better financial environment for new investments	3	5	23.08%	60%	100%	60%	100%
Better technical standards	2	7	15.38%	40%	140%	40%	140%
Better ethical standards	1	8	7.69%	20%	160%	20%	160%
Better market incentives	3	11	23.08%	60%	220%	60%	220%
Measures to facilitate public acceptance	2	13	15.38%	40%	260%	40%	260%
Sum:	13	-	100%	-	-	-	-
Not answered:	0	-	-	0%	-	-	-

Average:	3.46	Minimum:	1	Variance:	3.27
Median:	3	Maximum:	6	Std. deviation:	1.81

Total answered: 5

Text input

We need a universal language at least on a European scale. This language concerns how an AI will interfere with existing physical elements, which implies an agreement between industrialists.

A clearer regulatory framework around specific applications of the technology rather than an all-encompassing generic regulation covering all AI/robotic applications

a clearer regulatory framework around specific applications of the technology rather than all-encompassing generic regulatin covering all AI/robotic applications

Ces trois axes ont des horizons de temps différents : - Favoriser les financements & investissement intra-communautaire dans l'IA afin d'éviter que les meilleures startup du domaine soient dévorées par les GAFA et BATX. - Aider les états membres à adapter leurs cadres juridiques, notamment sur les cas de responsabilité en cas de dommages causés par une IA - Initier dès à présent des travaux sur un cadre éthique : il s'agit d'un débat philosophique qui prendra nécessairement un temps long pour être appréhender par l'ensemble la société. Les travaux du Suédois Nick Bostrom sont une bonne base de départ.

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? *
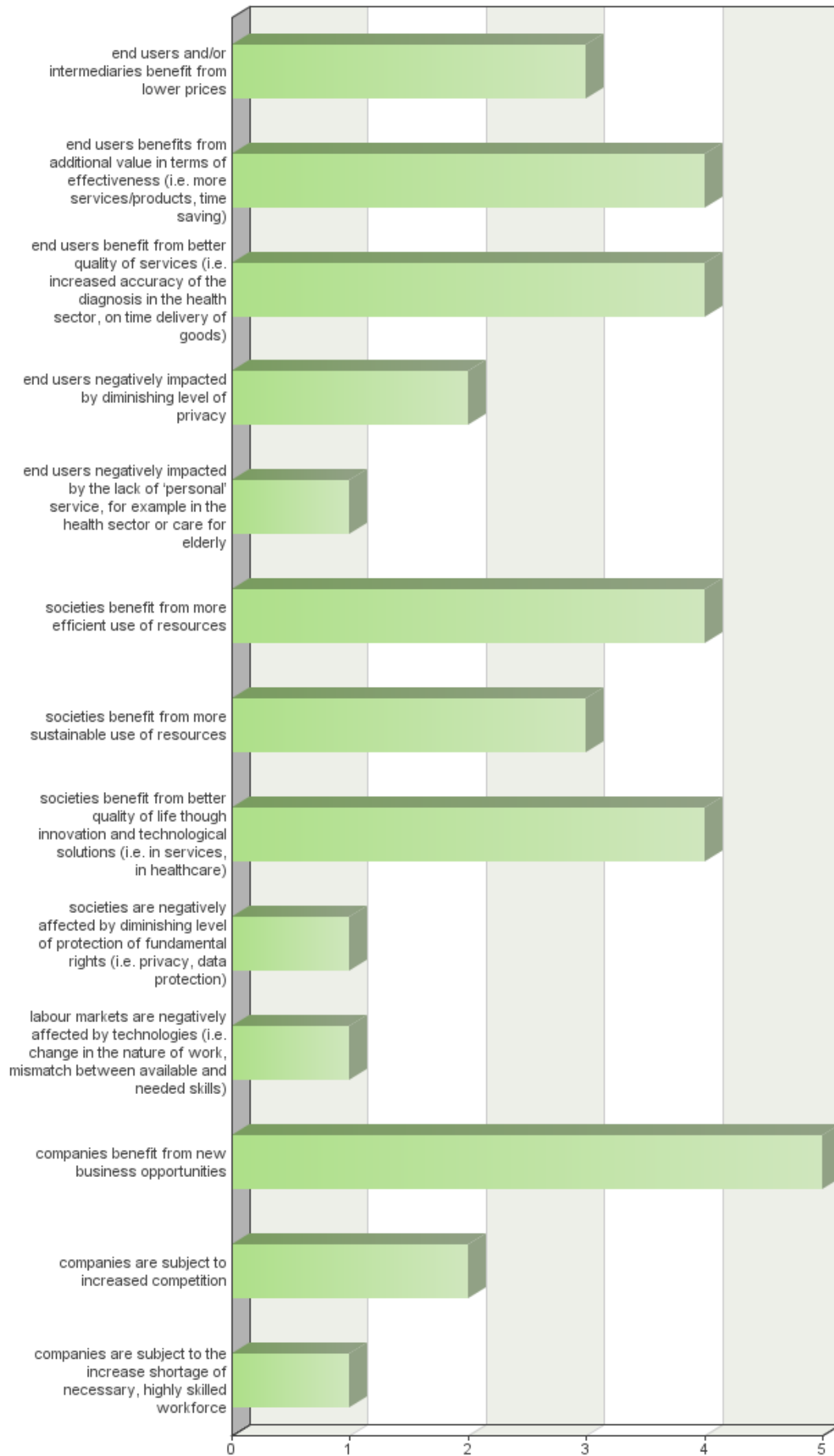
Frequency table

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	3	3	8.57%	60%	60%	60%	60%
end users benefits from additional value in terms of effectiveness (i.e. more services/products, time saving)	4	7	11.43%	80%	140%	80%	140%
end users benefit from better quality of services (i.e. increased accuracy of the diagnosis in the health sector, on time delivery of goods)	4	11	11.43%	80%	220%	80%	220%
end users negatively impacted by diminishing level of privacy	2	13	5.71%	40%	260%	40%	260%
end users negatively impacted by the lack of 'personal' service, for example in the health sector or care for elderly	1	14	2.86%	20%	280%	20%	280%
societies benefit from more efficient use of resources	4	18	11.43%	80%	360%	80%	360%
societies benefit from more sustainable use of resources	3	21	8.57%	60%	420%	60%	420%
societies benefit from better quality of life though innovation and technological solutions (i.e. in services, in healthcare)	4	25	11.43%	80%	500%	80%	500%
societies are negatively affected by diminishing level of protection of fundamental rights (i.e. privacy, data protection)	1	26	2.86%	20%	520%	20%	520%
labour markets are negatively affected by technologies (i.e. change in the nature of work, mismatch between available and needed skills)	1	27	2.86%	20%	540%	20%	540%
companies benefit from new business opportunities	5	32	14.29%	100%	640%	100%	640%
companies are subject to increased competition	2	34	5.71%	40%	680%	40%	680%
companies are subject to the increase shortage of necessary, highly skilled workforce	1	35	2.86%	20%	700%	20%	700%
Sum:	35	-	100%	-	-	-	-
Not answered:	0	-	-	0%	-	-	-

Average:	6.4	Minimum:	1	Variance:	13.78
Median:	6	Maximum:	13	Std. deviation:	3.71

Total answered: 5

Text input

Concerning the construction, in 3 years each building will produce energy that it can store or resell through smarts grids. The number of parameters that make it possible to correctly manage a neighborhood or a city leads to a combinatorial explosion that only an artificial intelligence can manage as accurately and without interruption. This type of solution will allow to exchange its energy locally with its neighbor, and thus decrease the cost of purchasing energy. Bringing AI to this market is a win-win situation, as it creates jobs, transforms a sector, and consumes resources locally. In summary, AI is the basic element that adapts to the resilient city.

AI/robotics is expanding the accessibility to certain services / products (i.e. medical research & services, text and speech recognition, mobile phone applications)

AI/robotics is expanding the accessibility to certain services / products (i.e. medical research & services, text and speech recognition, mobile phone applications)

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? *
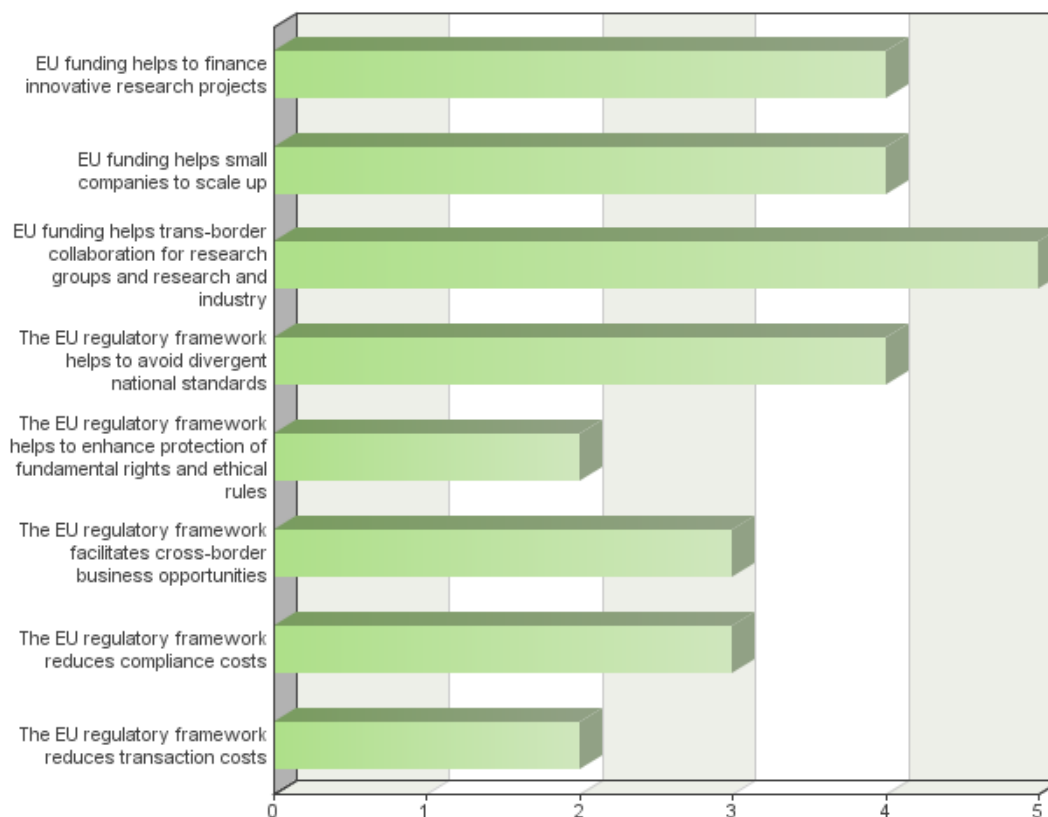
Frequency table

Choices	Absolute frequency	Cum. absolute frequency	Relative frequency by choice	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
EU funding helps to finance innovative research projects	4	4	14.81%	80%	80%	80%	80%
EU funding helps small companies to scale up	4	8	14.81%	80%	160%	80%	160%
EU funding helps trans-border collaboration for research groups and research and industry	5	13	18.52%	100%	260%	100%	260%
The EU regulatory framework helps to avoid divergent national standards	4	17	14.81%	80%	340%	80%	340%
The EU regulatory framework helps to enhance protection of fundamental rights and ethical rules	2	19	7.41%	40%	380%	40%	380%
The EU regulatory framework facilitates cross-border business opportunities	3	22	11.11%	60%	440%	60%	440%
The EU regulatory framework reduces compliance costs	3	25	11.11%	60%	500%	60%	500%
The EU regulatory framework reduces transaction costs	2	27	7.41%	40%	540%	40%	540%
Sum:	27	-	100%	-	-	-	-
Not answered:	0	-	-	0%	-	-	-

Average:	4	Minimum:	1	Variance:	5
Median:	4	Maximum:	8	Std. deviation:	2.24

Total answered: 5

Text input

It is imperative that each european country respect the same rules, otherwise the market will not be fair.

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? *
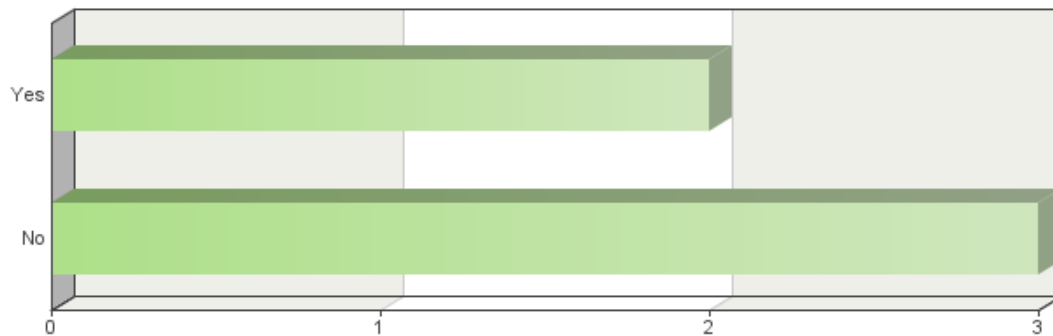
Frequency table

Choices		Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Yes		2	2	40%	40%	40%	40%
No		3	5	60%	100%	60%	100%
Sum:		5	-	100%	-	100%	-
Not answered:		0	-	0%	-	-	-
Average:	1.6	Minimum:	1		Variance:	0.3	
Median:	2	Maximum:	2		Std. deviation:	0.55	

Total answered: 5

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)

Text input
The difficulty to innovate in our sector comes from the fact that basic safety rules were created in the 70s, 40 years later society and systems have evolved, this model is obsolete. It remains, however, the universal rule because of assurances. Engineers therefore manufacture systems and solutions that adapt to the standard, which in turn constrains the potential of the application.

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)

Text input

Each country applies its own rule, that europe sometimes abounds in new "universal" rules which is a good thing. Because of this normative landscape, many systems operate in one country and not in another, thus completely blocking any possibility of mutualisation, transfers of markets between countries, and so on.

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)

Text input

It is imperative that europe continues to invest in real-time research innovations and prototypes. This incentive makes it possible to convince investors who feel accompanied. What is expected of europe is to be able to trade on the European market, hence the need to create partnerships on a large scale forming part of a network of trust. This type of large-scale partnership must integrate universities, industry, and project stakeholders.

Question 51

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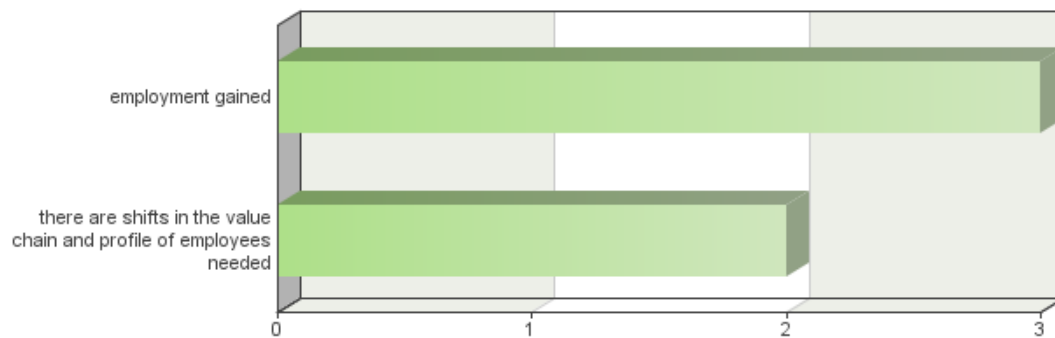
Frequency table

Choices	Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
employment gained	3	3	60%	60%	60%	60%
there are shifts in the value chain and profile of employees needed	2	5	40%	100%	40%	100%
Sum:	5	-	100%	-	100%	-
Not answered:	0	-	0%	-	-	-

Average:	2.4	Minimum:	2	Variance:	0.3	
Median:	2	Maximum:	3	Std. deviation:	0.55	

Total answered: 5

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

At the perimeter of our sector, the gains of people come from the needs to bring developers in data processing and data scientists. This implies a rise in competence of the existing actors, particularly in the maintenance sector, which must attract a new generation who master computer programming. It is important to give visibility to these changes in order to make the sector attractive.

Recent breakthroughs in AI and machine learning are opening up opportunities to solve even bigger societal challenges. Many countries are experiencing falling productivity, an aging workforce, and increased global competition. Certain groups are excluded from the economic sector because of location, language barriers or impairments. AI can be an important means of addressing such critical challenges. It is important that technology is deployed in a thoughtful way, alongside government economic policies that mitigate against risks.

Recent breakthroughs in AI and machine learning are opening up opportunities to solve even bigger societal challenges. Many countries are experiencing falling productivity, an aging workforce, and increased global competition. Certain groups are excluded from the economic sector because of location, language barriers or impairments. AI can be an important means of addressing such critical challenges. It is important that technology is deployed in a thoughtful way, alongside government economic policies that mitigate against risks.

La robotique et l'IA passent de projets de recherche à des projets industriels. Il y a besoin de plus en plus de profils de type ingénieurs lié à ces métiers, que ce soit pour des développeurs logiciels, des développeurs mécatronique, des commerciaux, des chargés marketing & communication, des concepteurs d'interaction Humains-Robots, des designers

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)

Text input
Setting up artificial intelligences may attempt to remove everything that is duplicated, except that it makes irreversible experience. At this stage, it must be considered that an AI must not be partially or totally substituted for a system. It should be considered as an additional layer that can be deactivated at any time.
Support experiments in scaling-up reskilling programs, support hackathons and open challenges around mitigating the risks of AI and robotics, vocational training, gather and publish best-practices and case studies.
Support experiments in scaling-up reskilling programs, support hackathons and open challenges around mitigating the risks of AI and robotics, vocational training, gather and publish best practices and case studies
Principalement éviter les dumping ou optimisation fiscale que nous connaissons avec les GAFA et inciter les états membre à investir dans la formation professionnelle pour accompagner cette transition. Empêcher que l'on puisse breveter une IA. Obliger les entreprises à publier publiquement les données d'entrainement de leur IA (pas les algorithme) et donner un droit de correction/suppression à chaque citoyen.

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): *
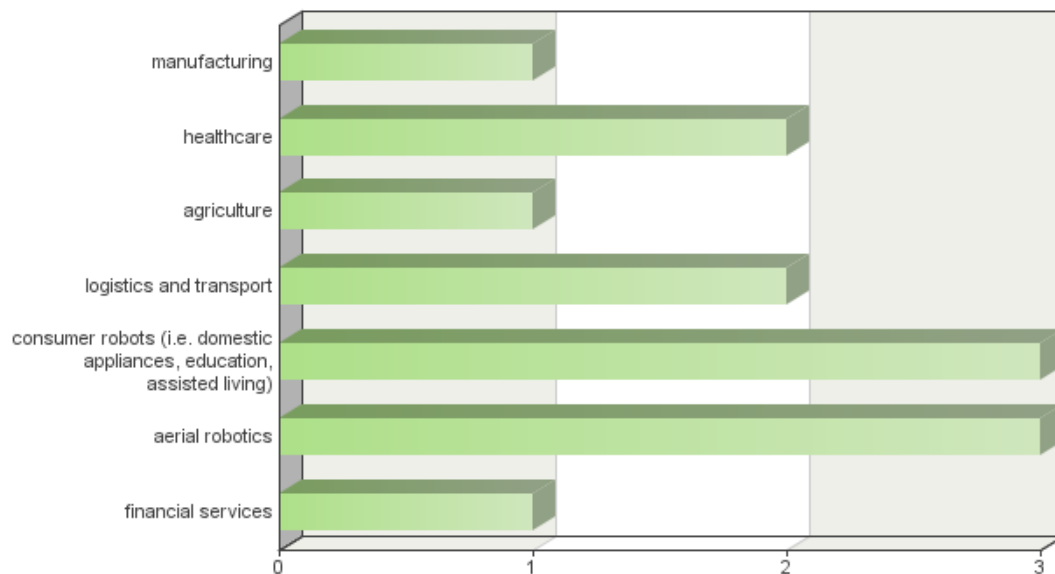
Frequency table

Choices	Absolute frequency	Cum. absolute frequency	Relative frequency by choice	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
manufacturing	1	1	7.69%	20%	20%	20%	20%
healthcare	2	3	15.38%	40%	60%	40%	60%
agriculture	1	4	7.69%	20%	80%	20%	80%
logistics and transport	2	6	15.38%	40%	120%	40%	120%
consumer robots (i.e. domestic appliances, education, assisted living)	3	9	23.08%	60%	180%	60%	180%
aerial robotics	3	12	23.08%	60%	240%	60%	240%
financial services	1	13	7.69%	20%	260%	20%	260%
Sum:	13	-	100%	-	-	-	-
Not answered:	0	-	-	0%	-	-	-

Average:	4.46	Minimum:	1	Variance:	4.6
Median:	5	Maximum:	9	Std. deviation:	2.15

Total answered: 5

Text input
Agriculture, energy and transportation, medical robotics

Question 55

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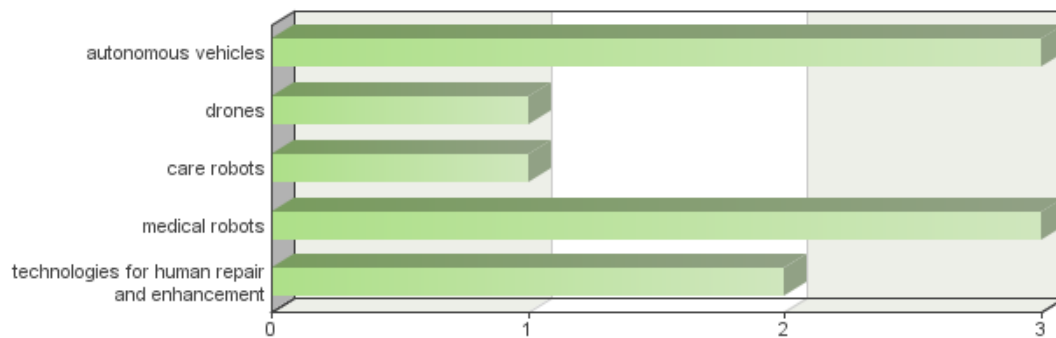
Frequency table

Choices	Absolute frequency	Cum. absolute frequency	Relative frequency by choice	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
autonomous vehicles	3	3	30%	60%	60%	60%	60%
drones	1	4	10%	20%	80%	20%	80%
care robots	1	5	10%	20%	100%	20%	100%
medical robots	3	8	30%	60%	160%	60%	160%
technologies for human repair and enhancement	2	10	20%	40%	200%	40%	200%
Sum:	10	-	100%	-	-	-	-
Not answered:	0	-	-	0%	-	-	-

Average:	3	Minimum:	1	Variance:	2.67
Median:	3.5	Maximum:	5	Std. deviation:	1.63

Total answered: 5

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)	3	3	20%	60%	60%	60%	60%
liability rules (10 questions)	4	7	26.67%	80%	140%	80%	140%
connectivity, intellectual property and flow of data (4 questions)	5	12	33.33%	100%	240%	100%	240%
standardisation, safety and security (4 questions)	1	13	6.67%	20%	260%	20%	260%
employment and labour market (11 questions)	1	14	6.67%	20%	280%	20%	280%
institutional coordination and oversight (4 questions)	1	15	6.67%	20%	300%	20%	300%
Sum:	15	-	100%	-	-	-	-
Not answered:	0	-	-	0%	-	-	-

Average:	2.73	Minimum:	1	Variance:	2.07
Median:	3	Maximum:	6	Std. deviation:	1.44

Total answered: 5

Question 57

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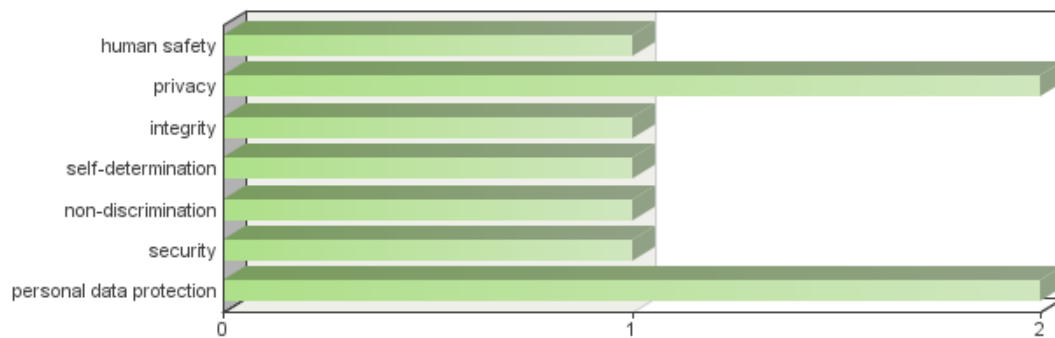
Frequency table

Choices	Absolute frequency	Cum. absolute frequency	Relative frequency by choice	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
human safety	1	1	11.11%	20%	20%	33.33%	33.33%
privacy	2	3	22.22%	40%	60%	66.67%	100%
integrity	1	4	11.11%	20%	80%	33.33%	133.33%
self-determination	1	5	11.11%	20%	100%	33.33%	166.67%
non-discrimination	1	6	11.11%	20%	120%	33.33%	200%
security	1	7	11.11%	20%	140%	33.33%	233.33%
personal data protection	2	9	22.22%	40%	180%	66.67%	300%
Sum:	9	-	100%	-	-	-	-
Not answered:	2	-	-	40%	-	-	-

Average:	6.44	Minimum:	1	Variance:	9.78
Median:	7	Maximum:	10	Std. deviation:	3.13

Total answered: 3

Question 58

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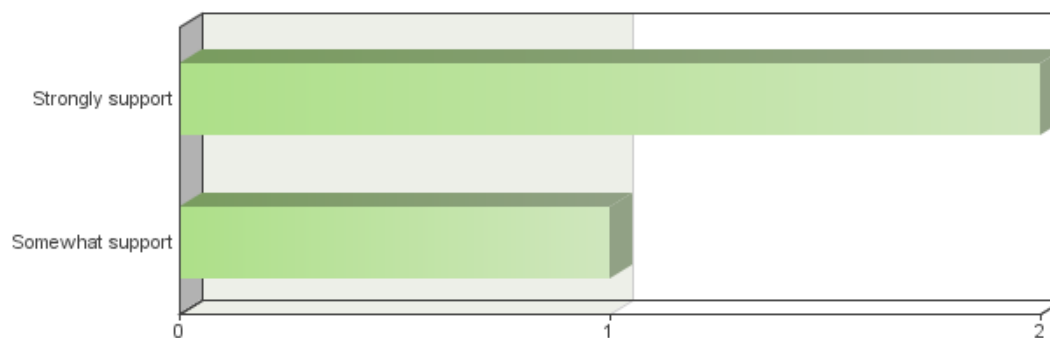
Frequency table

Choices		Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Strongly support		2	2	40%	40%	66.67%	66.67%
Somewhat support		1	3	20%	60%	33.33%	100%
Sum:		3	-	60%	-	100%	-
Not answered:		2	-	40%	-	-	-
Average:	1.33	Minimum:	1		Variance:	0.33	
Median:	1	Maximum:	2		Std. deviation:	0.58	

Total answered: 3

Question 59

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

Levels Acquires autonomy through sensors and/or by exchanging data with its environment (inter-connectivity) and trades and analyses data

Frequency table

Levels	Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Very important	2	2	40%	40%	66.67%	66.67%
Slightly important	1	3	20%	60%	33.33%	100%
Sum:	3	-	60%	-	100%	-
Not answered:	2	-	40%	-	-	-

Average:	2	Minimum:	1	Variance:	3
Median:	1	Maximum:	4	Std. deviation:	1.73

Total answered: 3

Levels It is self-learning from experience and by interaction

Frequency table

Levels	Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Very important	3	3	60%	60%	100%	100%
Sum:	3	-	60%	-	100%	-
Not answered:	2	-	40%	-	-	-

Average:	1	Minimum:	1	Variance:	0
Median:	1	Maximum:	1	Std. deviation:	0

Total answered: 3

Levels Has a physical support

Frequency table

Levels	Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Slightly important	1	1	20%	20%	33.33%	33.33%
Not at all important	2	3	40%	60%	66.67%	100%
Sum:	3	-	60%	-	100%	-
Not answered:	2	-	40%	-	-	-

Average:	4.67	Minimum:	4	Variance:	0.33
Median:	5	Maximum:	5	Std. deviation:	0.58

Total answered: 3

Levels Adapts its behaviour and actions to its environment

Frequency table

Levels		Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Very important		2	2	40%	40%	66.67%	66.67%
Important		1	3	20%	60%	33.33%	100%
Sum:		3	-	60%	-	100%	-
Not answered:		2	-	40%	-	-	-
Average:	1.33	Minimum:	1		Variance:	0.33	
Median:	1	Maximum:	2		Std. deviation:	0.58	

Total answered: 3

Levels It is not alive in the biological sense

Frequency table

Levels		Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Very important		1	1	20%	20%	33.33%	33.33%
Neutral		1	2	20%	40%	33.33%	66.67%
Not at all important		1	3	20%	60%	33.33%	100%
Sum:		3	-	60%	-	100%	-
Not answered:		2	-	40%	-	-	-
Average:	3	Minimum:	1		Variance:	4	
Median:	3	Maximum:	5		Std. deviation:	2	

Total answered: 3

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
Strongly support		1	1	20%	20%	33.33%	33.33%
Somewhat support		1	2	20%	40%	33.33%	66.67%
Somewhat oppose		1	3	20%	60%	33.33%	100%
Sum:		3	-	60%	-	100%	-
Not answered:		2	-	40%	-	-	-
Average:	2.33	Minimum:	1		Variance:	2.33	
Median:	2	Maximum:	4		Std. deviation:	1.53	

Total answered: 3

Question 61

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

Frequency table

Choices	Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
be compulsory and apply only for specific categories of robots	1	1	20%	20%	50%	50%
be voluntary for all advanced robots but compulsory for specific categories of robots	1	2	20%	40%	50%	100%
Sum:	2	-	40%	-	100%	-
Not answered:	3	-	60%	-	-	-

Average:	2	Minimum:	1	Variance:	2
Median:	2	Maximum:	3	Std. deviation:	1.41

Total answered: 2

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
Yes		3	3	60%	60%	100%	100%
Sum:		3	-	60%	-	100%	-
Not answered:		2	-	40%	-	-	-
Average:	1	Minimum:	1		Variance:	0	
Median:	1	Maximum:	1		Std. deviation:	0	

Total answered: 3

Question 63

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

Frequency table

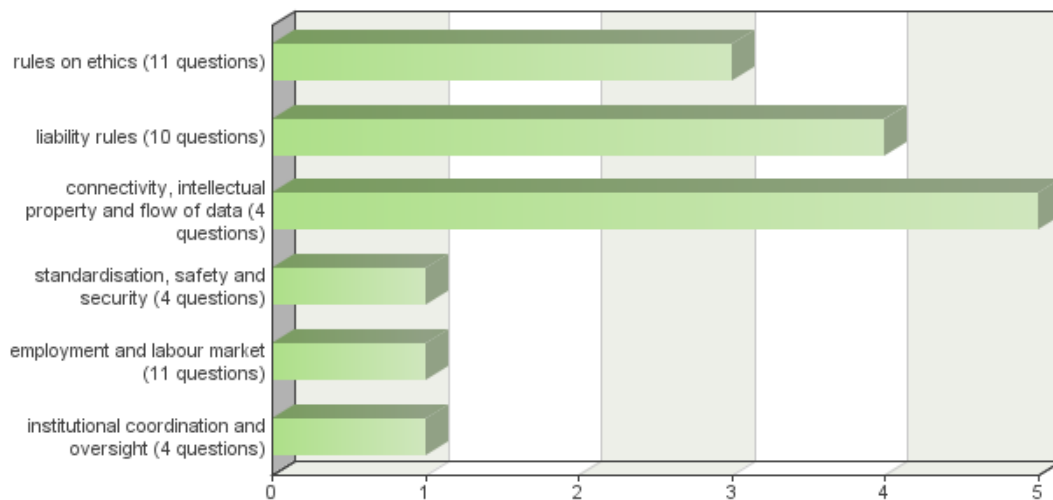| Choices		Absolute frequency	Cum. absolute frequency	Relative frequency by choice	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
design		1	1	25%	20%	20%	33.33%	33.33%
production		1	2	25%	20%	40%	33.33%	66.67%
development		1	3	25%	20%	60%	33.33%	100%
use		1	4	25%	20%	80%	33.33%	133.33%
Sum:		4	-	100%	-	-	-	-
Not answered:		2	-	-	40%	-	-	-
Average:	2.75	Minimum:	1			Variance:	2.92	
Median:	2.5	Maximum:	5			Std. deviation:	1.71	

Total answered: 3

Question 64

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

Levels A guiding ethical framework for the design, production and use of robots.

Frequency table

Levels		Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Important		3	3	60%	60%	100%	100%
Sum:		3	-	60%	-	100%	-
Not answered:		2	-	40%	-	-	-
Average:	2	Minimum:	2		Variance:	0	
Median:	2	Maximum:	2		Std. deviation:	0	

Total answered: 3

Levels Financial support for research projects that, among other issues, address social, ethical, legal and economic challenges raised by the technological development and its application.

Levels		Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Very important		1	1	20%	20%	33.33%	33.33%
Important		1	2	20%	40%	33.33%	66.67%
Not at all important		1	3	20%	60%	33.33%	100%
Sum:		3	-	60%	-	100%	-
Not answered:		2	-	40%	-	-	-
Average:	2.67	Minimum:	1		Variance:	4.33	
Median:	2	Maximum:	5		Std. deviation:	2.08	

Total answered: 3

Levels Development and support of research programmes at EU level that include a mechanism for short-term verification of the outcomes, to understand what real risks and opportunities are associated with the dissemination of these technologies.

Frequency table

Levels		Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Very important		2	2	40%	40%	66.67%	66.67%
Important		1	3	20%	60%	33.33%	100%
Sum:		3	-	60%	-	100%	-
Not answered:		2	-	40%	-	-	-
Average:	1.33	Minimum:	1		Variance:	0.33	
Median:	1	Maximum:	2		Std. deviation:	0.58	

Total answered: 3

Levels Development and support of initiatives and programmes that facilitate smoother transition of socio-ethical technologies from research to commercialisation on the market.
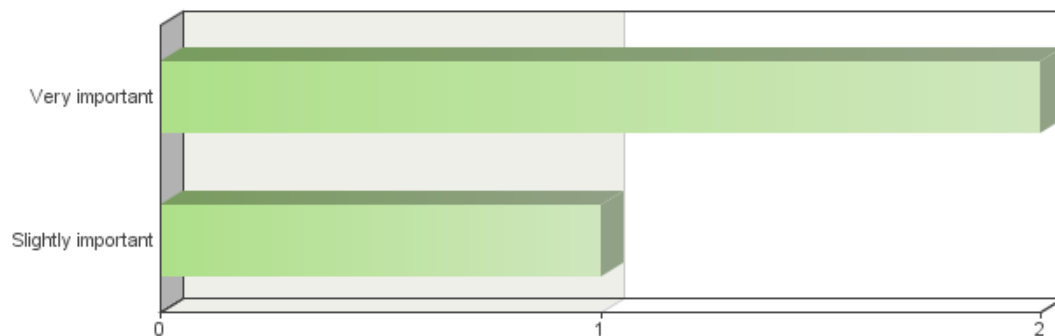
Frequency table

Levels		Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Very important		2	2	40%	40%	66.67%	66.67%
Important		1	3	20%	60%	33.33%	100%
Sum:		3	-	60%	-	100%	-
Not answered:		2	-	40%	-	-	-
Average:	1.33	Minimum:	1		Variance:	0.33	
Median:	1	Maximum:	2		Std. deviation:	0.58	

Total answered: 3

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? *

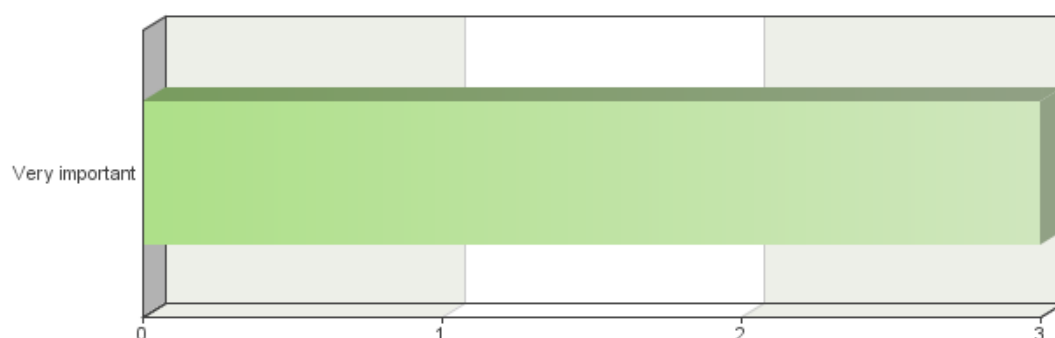## Levels A code of conduct for robotic engineers.

Frequency table

Levels		Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Important		1	1	20%	20%	33.33%	33.33%
Slightly important		1	2	20%	40%	33.33%	66.67%
Not at all important		1	3	20%	60%	33.33%	100%
Sum:		3	-	60%	-	100%	-
Not answered:		2	-	40%	-	-	-
Average:	3.67	Minimum:	2		Variance:	2.33	
Median:	4	Maximum:	5		Std. deviation:	1.53	

Total answered: 3

Levels A code for research ethics committees when reviewing robotics and protocols.
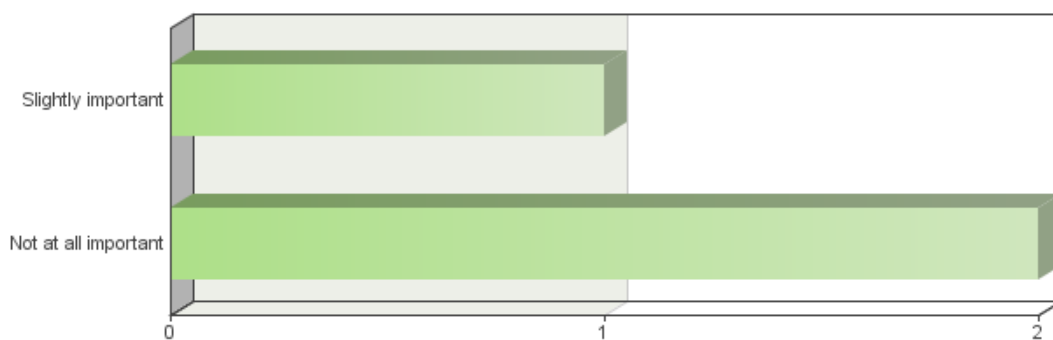
Frequency table

Levels		Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Very important		1	1	20%	20%	33.33%	33.33%
Important		2	3	40%	60%	66.67%	100%
Sum:		3	-	60%	-	100%	-
Not answered:		2	-	40%	-	-	-
Average:	1.67	Minimum:	1		Variance:	0.33	
Median:	2	Maximum:	2		Std. deviation:	0.58	

Total answered: 3

Levels Model licences for designers and users.
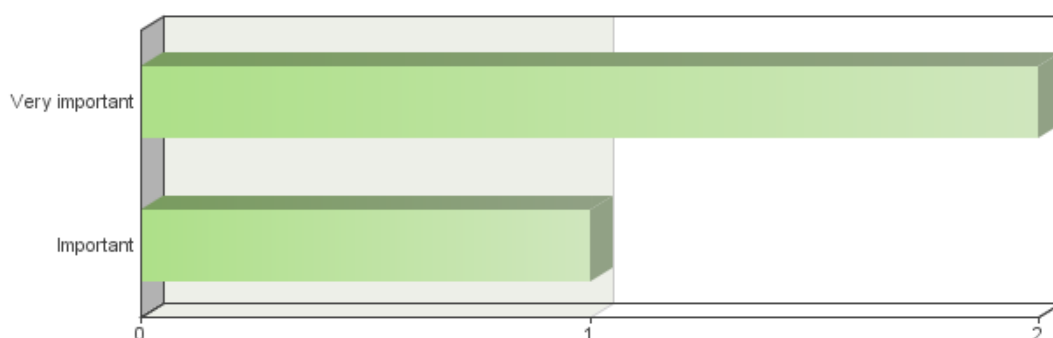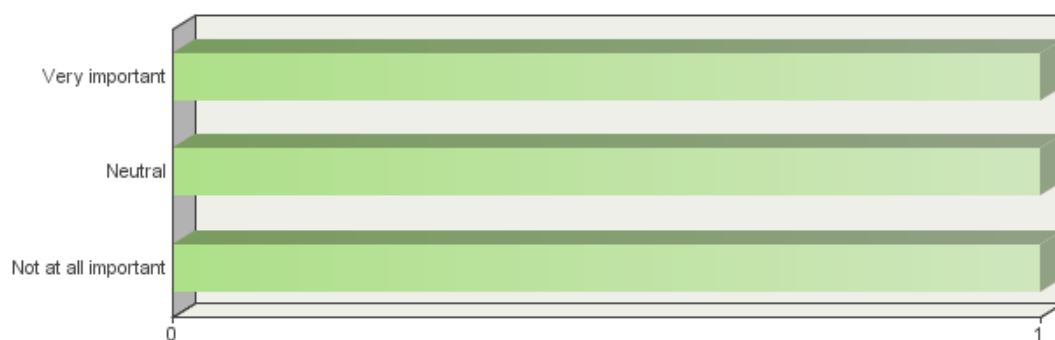

Frequency table

Levels		Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Very important		1	1	20%	20%	33.33%	33.33%
Important		1	2	20%	40%	33.33%	66.67%
Not at all important		1	3	20%	60%	33.33%	100%
Sum:		3	-	60%	-	100%	-
Not answered:		2	-	40%	-	-	-
Average:	2.67	Minimum:	1		Variance:	4.33	
Median:	2	Maximum:	5		Std. deviation:	2.08	

Total answered: 3

Text input

un code de conduite pour les personnes chargées de l'apprentissage du robot (ce ne sera probablement pas les ingénieurs robotique) un protocole de test / certification avant mise sur le marché

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? *

Levels Principle of beneficence – robots should act in the best interests of humans.
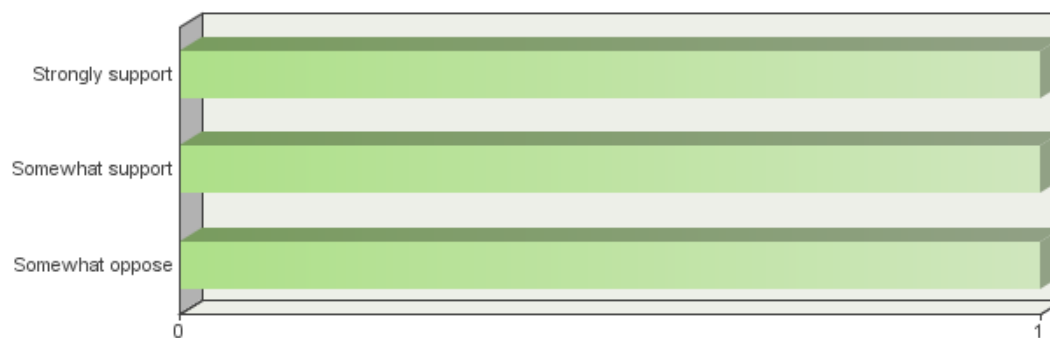

Frequency table

Levels		Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Very important		1	1	20%	20%	100%	100%
Sum:		1	-	20%	-	100%	-
Not answered:		4	-	80%	-	-	-
Average:	1	Minimum:	1		Variance:		
Median:	1	Maximum:	1		Std. deviation:		

Total answered: 1

Levels Non-maleficence – the doctrine of 'first, do not harm', whereby robots should not harm a human.

Frequency table

Levels		Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Very important		1	1	20%	20%	100%	100%
Sum:		1	-	20%	-	100%	-
Not answered:		4	-	80%	-	-	-
Average:	1	Minimum:	1		Variance:		
Median:	1	Maximum:	1		Std. deviation:		

Total answered: 1

Levels Autonomy – the capacity to make an informed, un-coerced decision about the terms of interaction with robots.

Frequency table

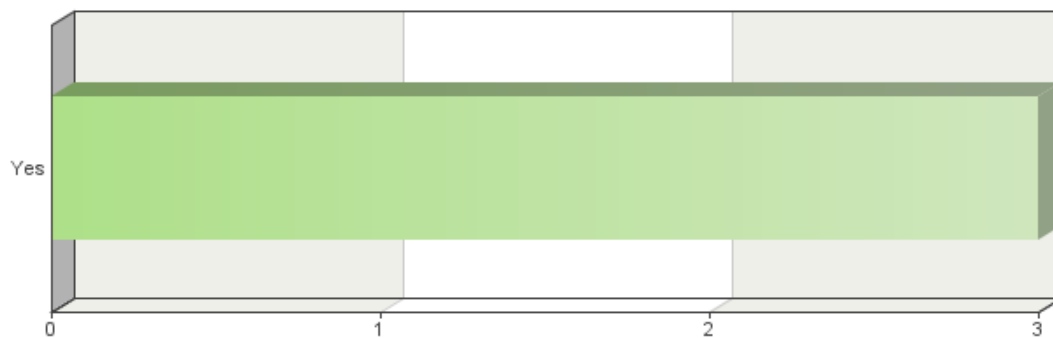| Levels		Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Important		1	1	20%	20%	100%	100%
Sum:		1	-	20%	-	100%	-
Not answered:		4	-	80%	-	-	-
Average:	2	Minimum:	2		Variance:		
Median:	2	Maximum:	2		Std. deviation:		

Total answered: 1

Levels Justice – fair distribution of the benefits associated with robotics and affordability of homecare and healthcare robots in particular.
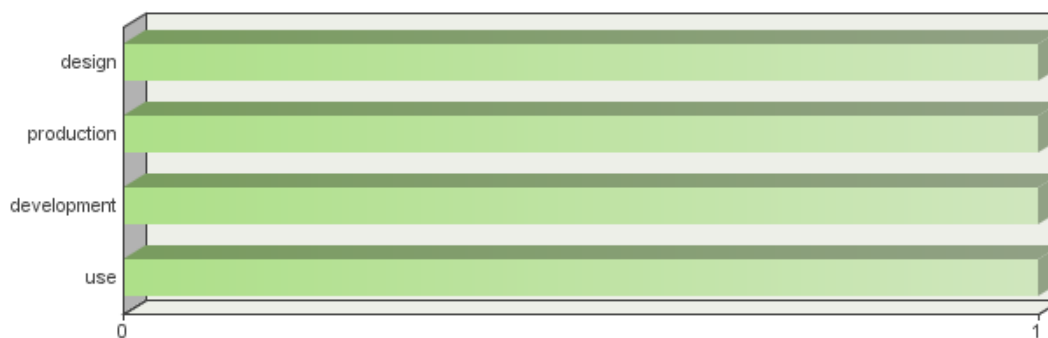
<div align="center">

Frequency table

</div>

Levels	Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Very important	1	1	20%	20%	100%	100%
Sum:	1	-	20%	-	100%	-
Not answered:	4	-	80%	-	-	-

Average:	1	Minimum:	1	Variance:		
Median:	1	Maximum:	1	Std. deviation:		

Total answered: 1

Levels Precautionary principle – anticipating potential safety impacts of outcomes and taking due precautions, proportional to the level of protection, while encouraging progress for the benefit of society and the environment.

<div align="center">

Frequency table

</div>

Levels	Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Slightly important	1	1	20%	20%	100%	100%
Sum:	1	-	20%	-	100%	-
Not answered:	4	-	80%	-	-	-

Average:	4	Minimum:	4	Variance:		
Median:	4	Maximum:	4	Std. deviation:		

Total answered: 1

Levels Inclusiveness – allowing for participation in the decision-making process by all stakeholders involved in, or concerned by, robotics research activities.
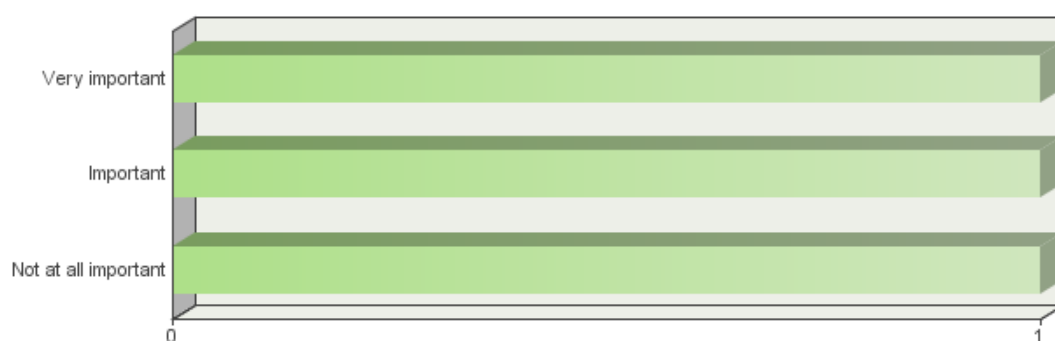

Frequency table

Levels	Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Very important	1	1	20%	20%	100%	100%
Sum:	1	-	20%	-	100%	-
Not answered:	4	-	80%	-	-	-
Average:	1	Minimum:	1	Variance:		
Median:	1	Maximum:	1	Std. deviation:		

Total answered: 1

Levels Accountability – anticipating and accounting for the social, environmental and human health impacts that robotics may impose on present and future generations.
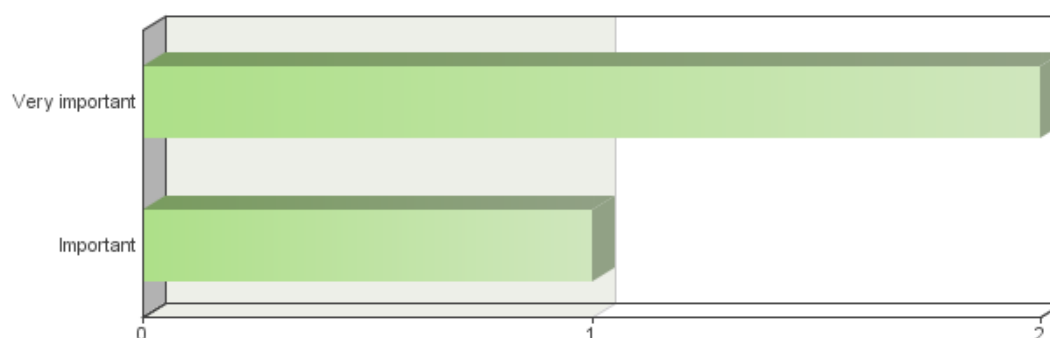
Frequency table

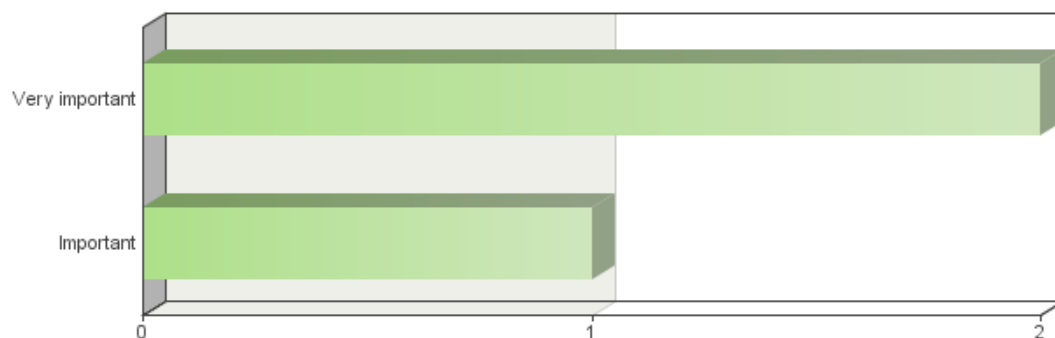| Levels		Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Very important		1	1	20%	20%	100%	100%
Sum:		1	-	20%	-	100%	-
Not answered:		4	-	80%	-	-	-
Average:	1	Minimum:	1		Variance:		
Median:	1	Maximum:	1		Std. deviation:		

Total answered: 1

Levels Safety

Frequency table

Levels		Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Very important		1	1	20%	20%	100%	100%
Sum:		1	-	20%	-	100%	-
Not answered:		4	-	80%	-	-	-
Average:	1	Minimum:	1		Variance:		
Median:	1	Maximum:	1		Std. deviation:		

Total answered: 1

Levels Reversibility

Frequency table

Levels		Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Neutral		1	1	20%	20%	100%	100%
Sum:		1	-	20%	-	100%	-
Not answered:		4	-	80%	-	-	-
Average:	3	Minimum:	3		Variance:		
Median:	3	Maximum:	3		Std. deviation:		

Total answered: 1

Levels Privacy
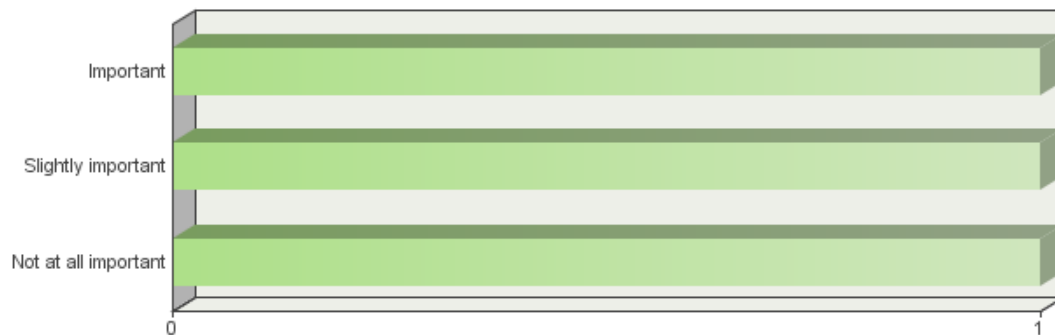

Frequency table

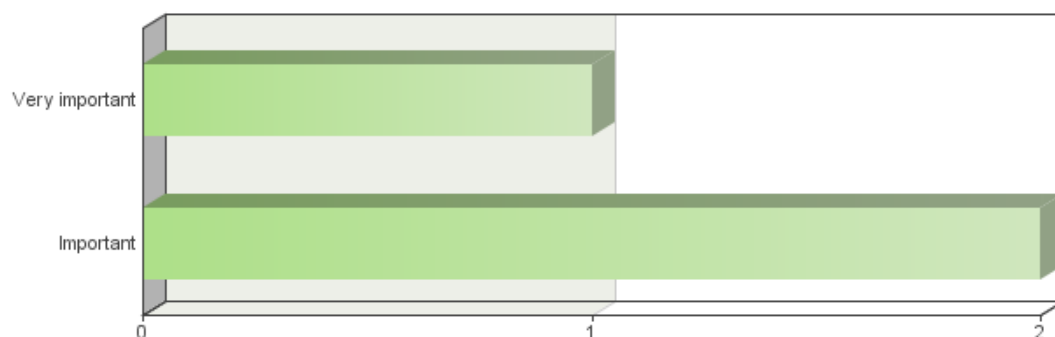| Levels		Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Very important		1	1	20%	20%	100%	100%
Sum:		1	-	20%	-	100%	-
Not answered:		4	-	80%	-	-	-
Average:	1	Minimum:	1		Variance:		
Median:	1	Maximum:	1		Std. deviation:		

Total answered: 1

Levels Transparency

Levels		Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Very important		1	1	20%	20%	100%	100%
Sum:		1	-	20%	-	100%	-
Not answered:		4	-	80%	-	-	-
Average:	1	Minimum:	1		Variance:		
Median:	1	Maximum:	1		Std. deviation:		

Total answered: 1

Levels Maximising benefit and minimising harm

Frequency table

Levels		Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Important		1	1	20%	20%	100%	100%
Sum:		1	-	20%	-	100%	-
Not answered:		4	-	80%	-	-	-
Average:	2	Minimum:	2		Variance:		
Median:	2	Maximum:	2		Std. deviation:		

Total answered: 1

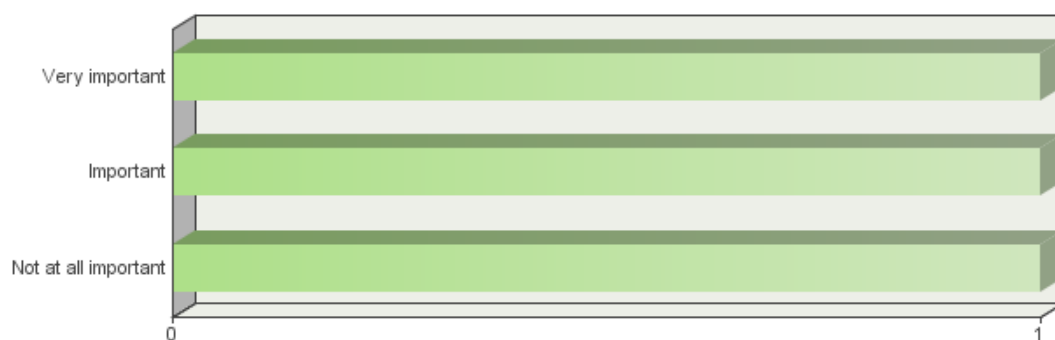## Levels Respect for fundamental human rights

Frequency table

Levels		Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Very important		1	1	20%	20%	100%	100%
Sum:		1	-	20%	-	100%	-
Not answered:		4	-	80%	-	-	-
Average:	1	Minimum:	1		Variance:		
Median:	1	Maximum:	1		Std. deviation:		

Total answered: 1

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' *
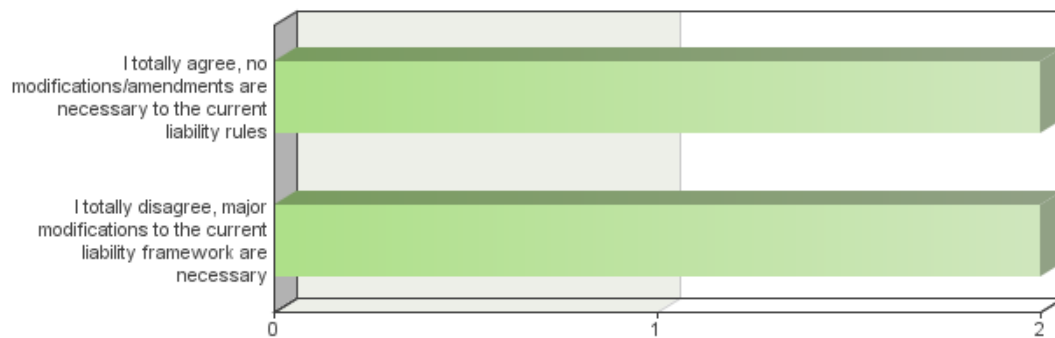
Frequency table

Choices	Absolute frequency	Cum. absolute frequency	Relative frequency by choice	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
I totally agree, no modifications/amendments are necessary to the current liability rules	2	2	50%	40%	40%	50%	50%
I totally disagree, major modifications to the current liability framework are necessary	2	4	50%	40%	80%	50%	100%
Sum:	4	-	100%	-	-	-	-
Not answered:	1	-	-	20%	-	-	-

Average:	3	Minimum:	1	Variance:	5.33
Median:	3	Maximum:	5	Std. deviation:	2.31

Total answered: 4

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
Strongly agree		3	3	60%	60%	75%	75%
Strongly disagree		1	4	20%	80%	25%	100%
Sum:		4	-	80%	-	100%	-
Not answered:		1	-	20%	-	-	-
Average:	2	Minimum:	1		Variance:	4	
Median:	1	Maximum:	5		Std. deviation:	2	

Total answered: 4

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: *

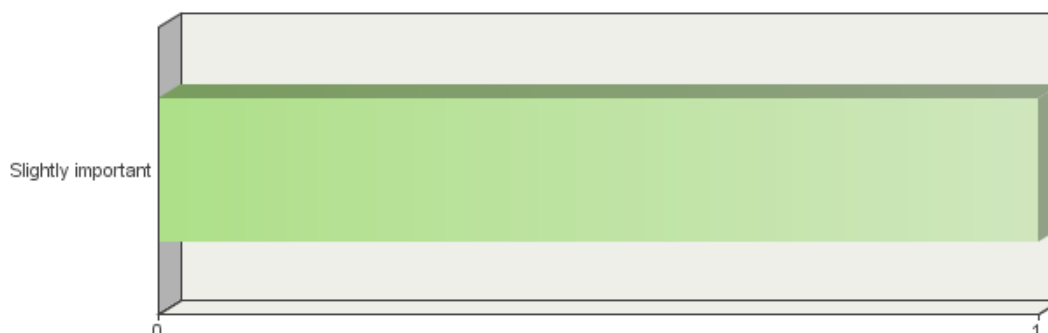## Levels Robots should be regarded as natural persons (i.e. humans).

Frequency table

Levels	Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Agree	1	1	20%	20%	33.33%	33.33%
Strongly disagree	2	3	40%	60%	66.67%	100%
Sum:	3	-	60%	-	100%	-
Not answered:	2	-	40%	-	-	-

Average:	4	Minimum:	2	Variance:	3
Median:	5	Maximum:	5	Std. deviation:	1.73

Total answered: 3

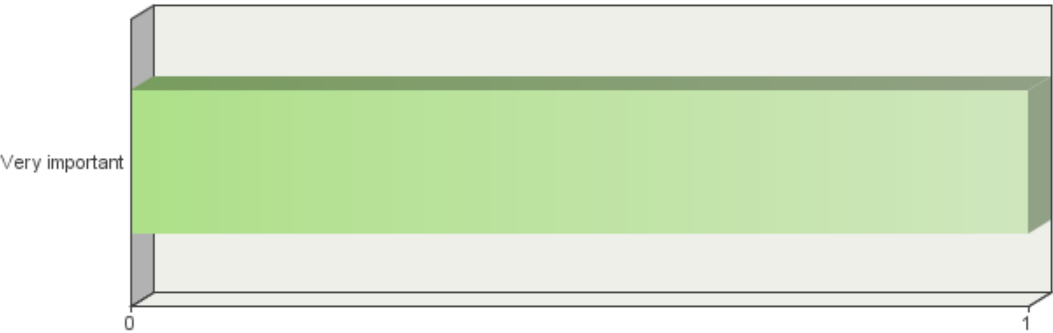## Levels Robots should be regarded as legal persons (i.e. companies).

Frequency table

Levels		Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Disagree		1	1	20%	20%	33.33%	33.33%
Strongly disagree		2	3	40%	60%	66.67%	100%
Sum:		3	-	60%	-	100%	-
Not answered:		2	-	40%	-	-	-
Average:	4.67	Minimum:	4		Variance:	0.33	
Median:	5	Maximum:	5		Std. deviation:	0.58	

Total answered: 3

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
Agree		1	1	20%	20%	33.33%	33.33%
Strongly disagree		2	3	40%	60%	66.67%	100%
Sum:		3	-	60%	-	100%	-
Not answered:		2	-	40%	-	-	-
Average:	4	Minimum:	2		Variance:	3	
Median:	5	Maximum:	5		Std. deviation:	1.73	

Total answered: 3

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

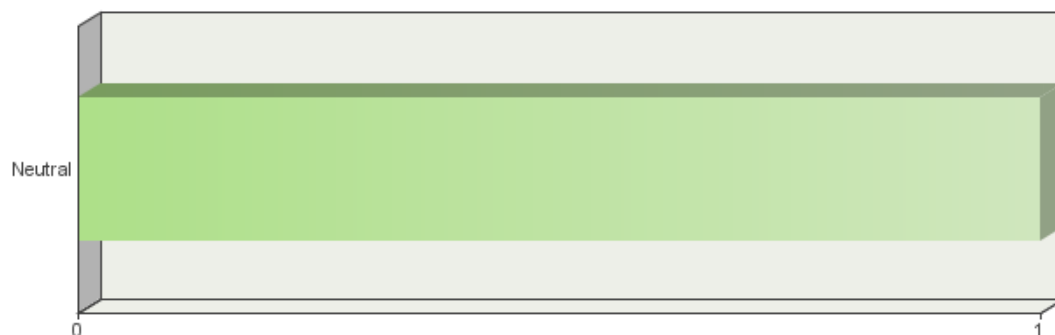| Levels		Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Strongly agree		2	2	40%	40%	66.67%	66.67%
Strongly disagree		1	3	20%	60%	33.33%	100%
Sum:		3	-	60%	-	100%	-
Not answered:		2	-	40%	-	-	-
Average:	2.33	Minimum:	1		Variance:	5.33	
Median:	1	Maximum:	5		Std. deviation:	2.31	

Total answered: 3

Text input

Cela dépend du type de robot et de son niveau d'autonomie. A un certain degrés d'autonomie, il sera nécessaire de définir un statut de "personnes artificielles"

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: *

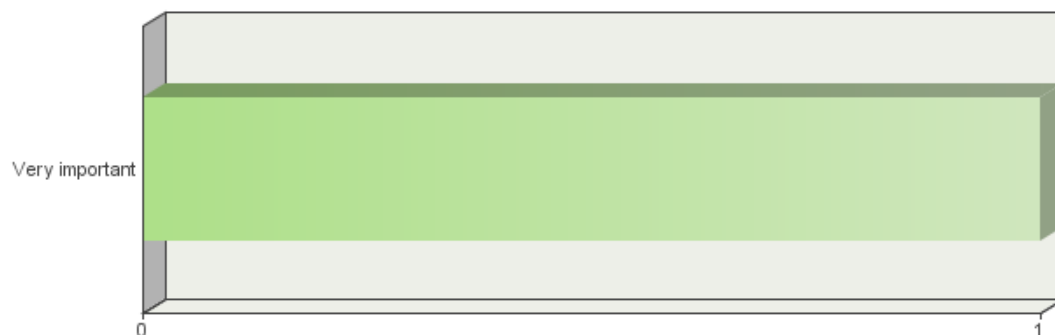## Levels Strict liability for manufacturers

Frequency table

Levels	Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Strongly support	1	1	20%	20%	25%	25%
Strongly oppose	3	4	60%	80%	75%	100%
Sum:	4	-	80%	-	100%	-
Not answered:	1	-	20%	-	-	-

Average:	4	Minimum:	1	Variance:	4
Median:	5	Maximum:	5	Std. deviation:	2

Total answered: 4

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
Support		1	1	20%	20%	25%	25%
Strongly oppose		3	4	60%	80%	75%	100%
Sum:		4	-	80%	-	100%	-
Not answered:		1	-	20%	-	-	-
Average:	4.25	Minimum:	2		Variance:	2.25	
Median:	5	Maximum:	5		Std. deviation:	1.5	

Total answered: 4

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
Support		1	1	20%	20%	25%	25%
Strongly oppose		3	4	60%	80%	75%	100%
Sum:		4	-	80%	-	100%	-
Not answered:		1	-	20%	-	-	-
Average:	4.25	Minimum:	2		Variance:	2.25	
Median:	5	Maximum:	5		Std. deviation:	1.5	

Total answered: 4

Text input

We understand there are complex questions related to liability frameworks, At the same time it may be too early to significantly change existing liability frameworks. We see no need to create new robotics and AI-specific liability rules. The current core liability principle is that those who cause foreseeable harm should be the ones that are liable. This can and should be applied to these technologies, the same way it is applied to all other tools.

De manière générale la personne ayant entrainée le robot. Ce sera probablement le fabricant dans le cas d'un robot doté d'une IA monitorée. Mais le propriétaire dans le cas d'un robot apprenant, non monitoré. Se pose alors la question de la responsabilité propre du robot. Les parents sont responsable de l'éducation, mais les enfants peuvent être reconnus pénalement responsable dans certaines circonstance.

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: *
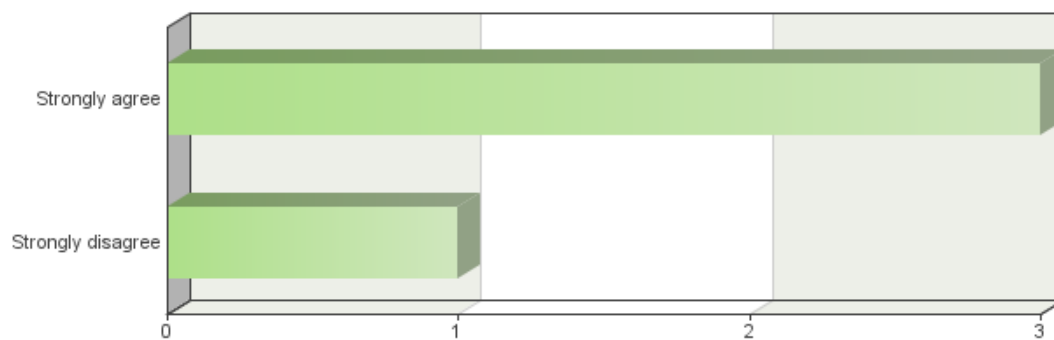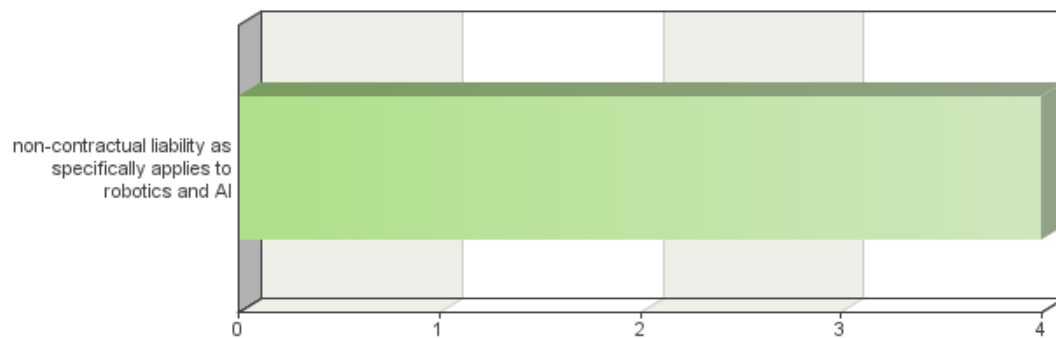
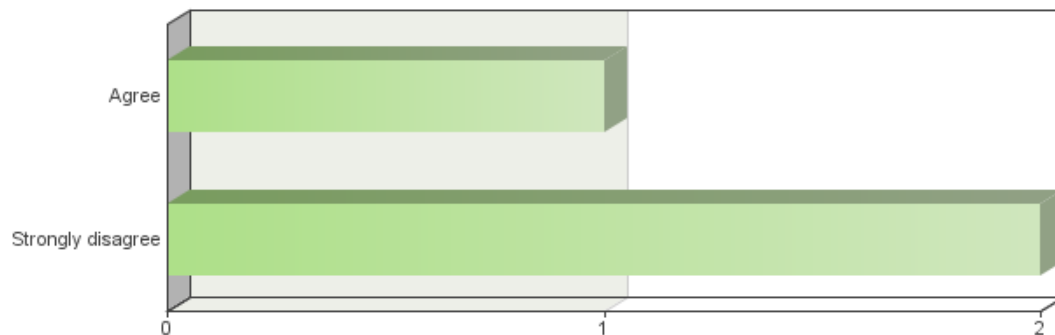

Frequency table

Choices	Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
non-contractual liability as specifically applies to robotics and AI	4	4	80%	80%	100%	100%
Sum:	4	-	80%	-	100%	-
Not answered:	1	-	20%	-	-	-

Average:	2	Minimum:	2	Variance:	0	
Median:	2	Maximum:	2	Std. deviation:	0	

Total answered: 4

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

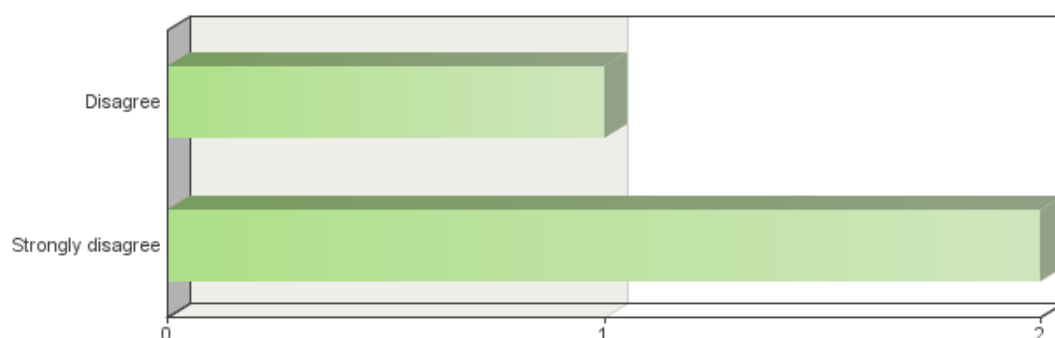| Choices		Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
support		1	1	20%	20%	25%	25%
neutral		1	2	20%	40%	25%	50%
oppose		2	4	40%	80%	50%	100%
Sum:		4	-	80%	-	100%	-
Not answered:		1	-	20%	-	-	-
Average:	3.25	Minimum:	2		Variance:	0.92	
Median:	3.5	Maximum:	4		Std. deviation:	0.96	

Total answered: 4

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
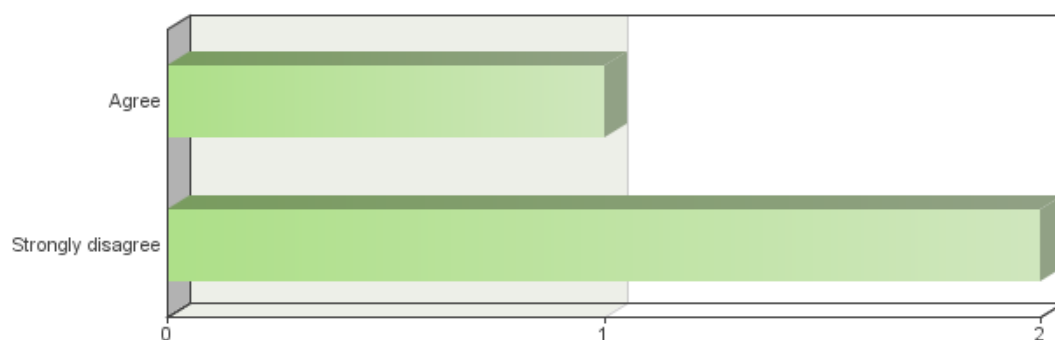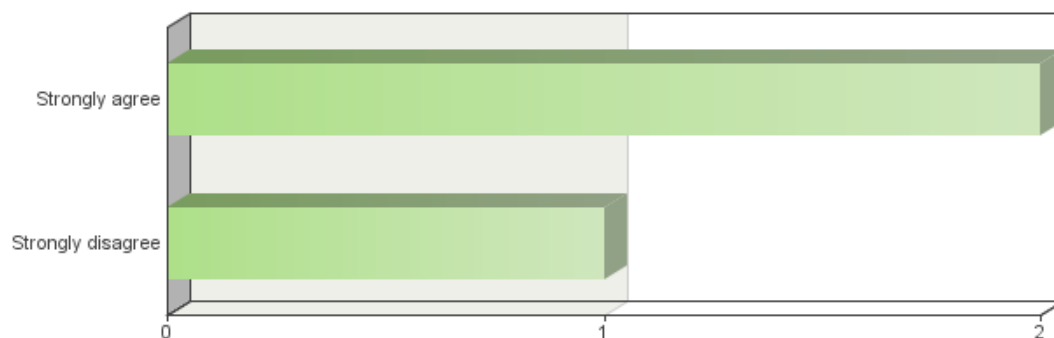*
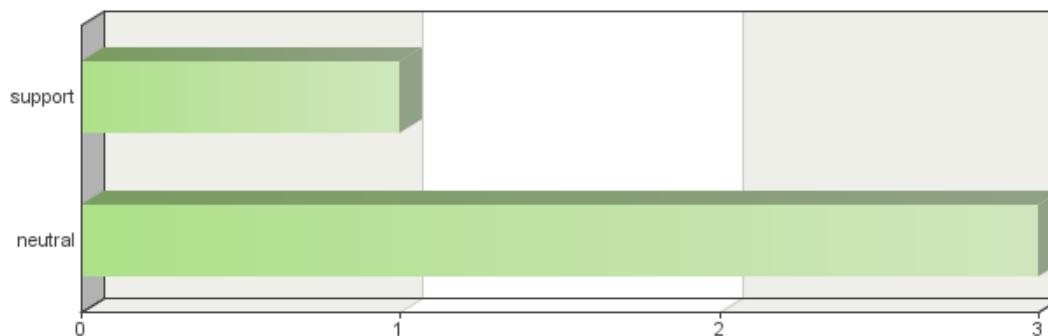
Frequency table

Choices	Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
support	1	1	20%	20%	25%	25%
neutral	3	4	60%	80%	75%	100%
Sum:	4	-	80%	-	100%	-
Not answered:	1	-	20%	-	-	-

Average:	2.75	Minimum:	2	Variance:	0.25
Median:	3	Maximum:	3	Std. deviation:	0.5

Total answered: 4

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) ... *

Levels To develop a balanced approach to intellectual property rights when applied to hardware and software standards, and codes that protect innovation and at the same time foster innovation.
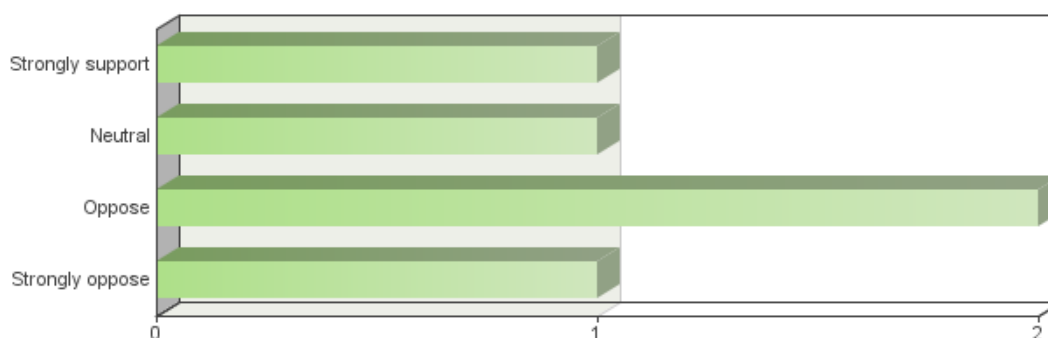
Frequency table

Levels	Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Strongly support	1	1	20%	20%	20%	20%
Neutral	1	2	20%	40%	20%	40%
Oppose	2	4	40%	80%	40%	80%
Strongly oppose	1	5	20%	100%	20%	100%
Sum:	5	-	100%	-	100%	-
Not answered:	0	-	0%	-	-	-

Average:	3.4	Minimum:	1	Variance:	2.3
Median:	4	Maximum:	5	Std. deviation:	1.52

Total answered: 5

Levels To support a horizontal and technology neutral approach to intellectual property applicable to the various sectors in which robotics could be employed.
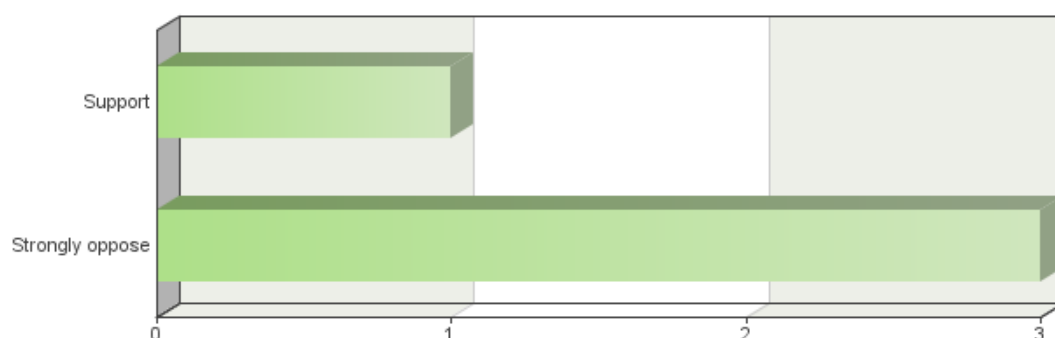
Frequency table

Levels	Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Strongly support	2	2	40%	40%	40%	40%
Support	1	3	20%	60%	20%	60%
Oppose	2	5	40%	100%	40%	100%
Sum:	5	-	100%	-	100%	-
Not answered:	0	-	0%	-	-	-
Average:	2.4	Minimum:	1	Variance:	2.3	
Median:	2	Maximum:	4	Std. deviation:	1.52	

Total answered: 5

Levels To elaborate criteria for an 'own intellectual creation' for copyrightable works produced by computers or robots.

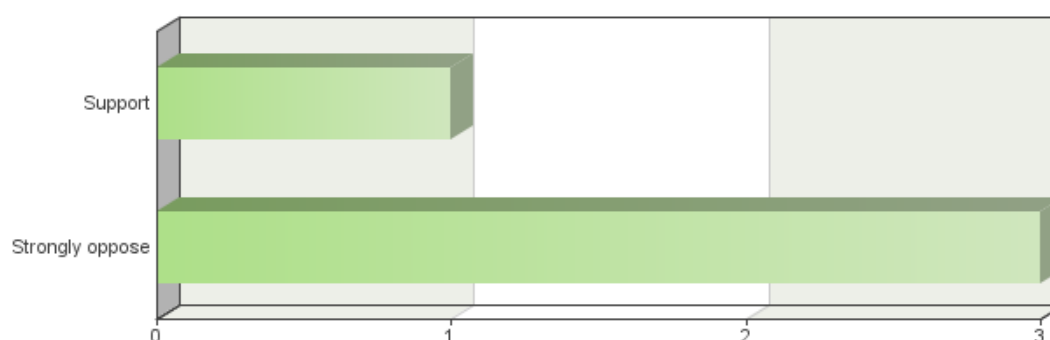## Frequency table

Levels	Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Support	2	2	40%	40%	40%	40%
Oppose	1	3	20%	60%	20%	60%
Strongly oppose	2	5	40%	100%	40%	100%
Sum:	5	-	100%	-	100%	-
Not answered:	0	-	0%	-	-	-
Average:	3.6	Minimum:	2	Variance:	2.3	
Median:	4	Maximum:	5	Std. deviation:	1.52	

Total answered: 5

Levels To foster development of standards for the concept of privacy by design.

Frequency table

Levels		Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Strongly support		1	1	20%	20%	20%	20%
Support		2	3	40%	60%	40%	60%
Strongly oppose		2	5	40%	100%	40%	100%
Sum:		5	-	100%	-	100%	-
Not answered:		0	-	0%	-	-	-
Average:	3	Minimum:	1		Variance:	3.5	
Median:	2	Maximum:	5		Std. deviation:	1.87	

Total answered: 5

Levels To foster development of standards for the concept of privacy by default.

Frequency table

Levels		Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Strongly support		2	2	40%	40%	40%	40%
Support		1	3	20%	60%	20%	60%
Oppose		1	4	20%	80%	20%	80%
Strongly oppose		1	5	20%	100%	20%	100%
Sum:		5	-	100%	-	100%	-
Not answered:		0	-	0%	-	-	-
Average:	2.6	Minimum:	1		Variance:	3.3	
Median:	2	Maximum:	5		Std. deviation:	1.82	

Total answered: 5

Levels To foster development of standards for the concept of informed consent.

Frequency table

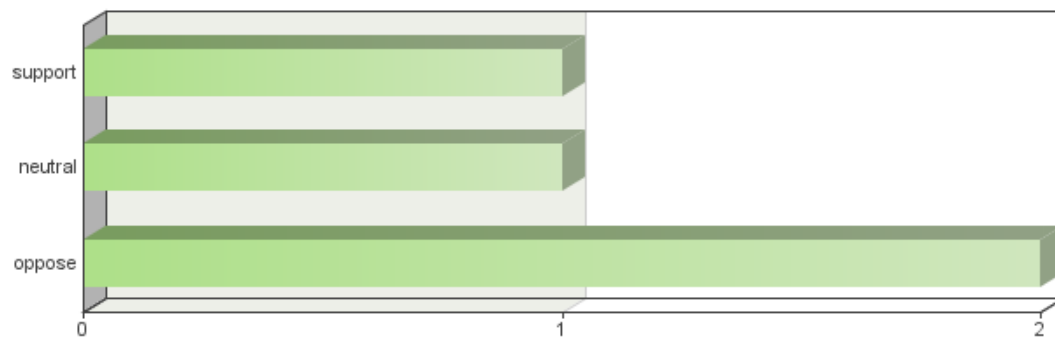| Levels		Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Strongly support		1	1	20%	20%	20%	20%
Support		1	2	20%	40%	20%	40%
Oppose		3	5	60%	100%	60%	100%
Sum:		5	-	100%	-	100%	-
Not answered:		0	-	0%	-	-	-
Average:	3	Minimum:	1		Variance:	2	
Median:	4	Maximum:	4		Std. deviation:	1.41	

Total answered: 5

Levels To foster development of standards for the concept of encryption.

Levels		Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Strongly support		1	1	20%	20%	20%	20%
Support		1	2	20%	40%	20%	40%
Oppose		3	5	60%	100%	60%	100%
Sum:		5	-	100%	-	100%	-
Not answered:		0	-	0%	-	-	-
Average:	3	Minimum:	1		Variance:	2	
Median:	4	Maximum:	4		Std. deviation:	1.41	

Total answered: 5

Levels To elaborate criteria to ensure that the use of personal data as a 'currency' does not lead to a circumvention of the basic principles governing the right to privacy and data protection.

Frequency table

Levels		Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Strongly support		1	1	20%	20%	20%	20%
Support		2	3	40%	60%	40%	60%
Oppose		2	5	40%	100%	40%	100%
Sum:		5	-	100%	-	100%	-
Not answered:		0	-	0%	-	-	-
Average:	2.6	Minimum:	1		Variance:	1.8	
Median:	2	Maximum:	4		Std. deviation:	1.34	

Total answered: 5

Levels To set a framework that will meet the connectivity requirements for the EU's digital future.
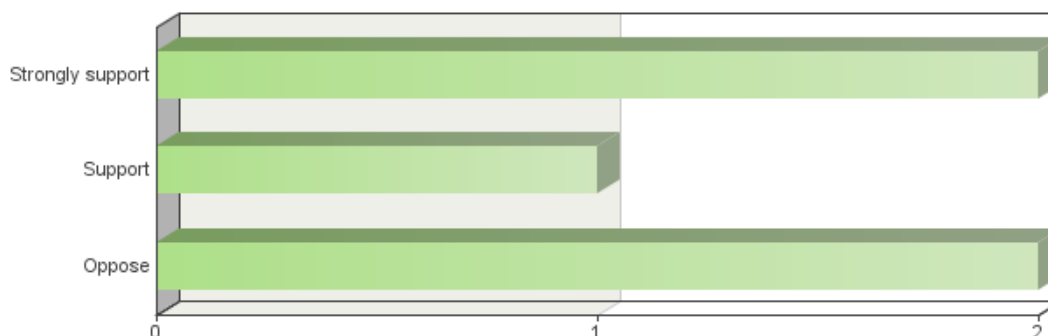
Frequency table

Levels	Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Strongly support	1	1	20%	20%	20%	20%
Support	2	3	40%	60%	40%	60%
Oppose	2	5	40%	100%	40%	100%
Sum:	5	-	100%	-	100%	-
Not answered:	0	-	0%	-	-	-

Average:	2.6	Minimum:	1	Variance:	1.8
Median:	2	Maximum:	4	Std. deviation:	1.34

Total answered: 5

Levels To set a framework to ensure that access to broadband and 5G network is fully in line with the net neutrality principle.

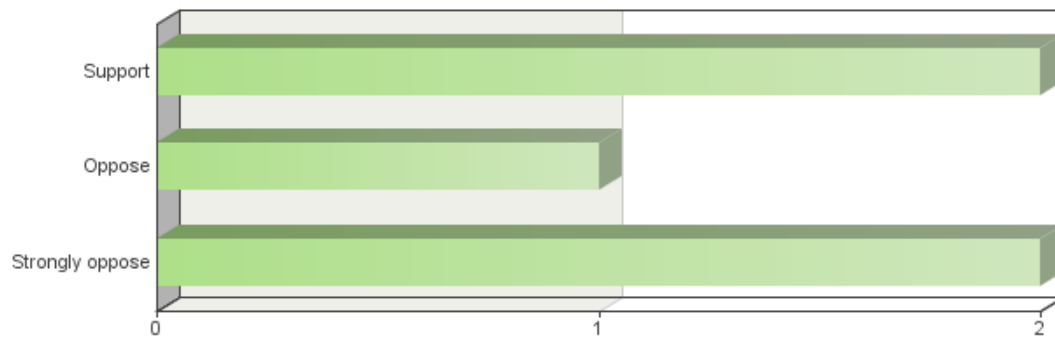## Frequency table

Levels	Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Strongly support	2	2	40%	40%	40%	40%
Support	1	3	20%	60%	20%	60%
Oppose	2	5	40%	100%	40%	100%
Sum:	5	-	100%	-	100%	-
Not answered:	0	-	0%	-	-	-

Average:	2.4	Minimum:	1	Variance:	2.3
Median:	2	Maximum:	4	Std. deviation:	1.52

Total answered: 5

Levels To ensure that civil law regulations are consistent with Regulation (EU) No 2016/679 (the General Data Protection Regulation).
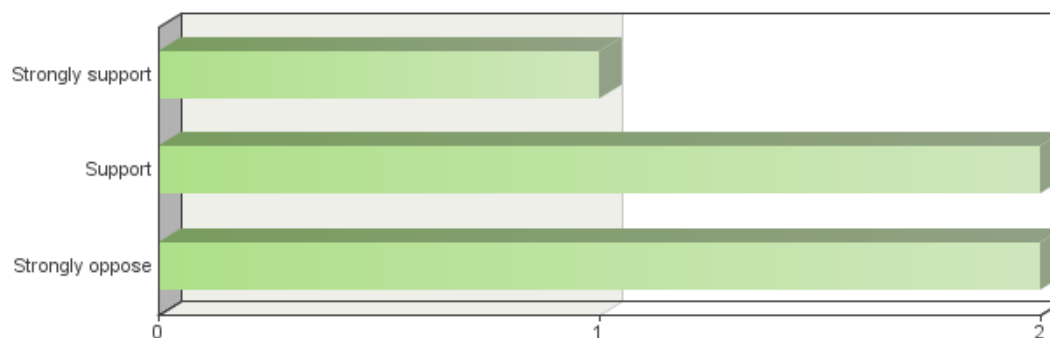

Frequency table

Levels	Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Strongly support	2	2	40%	40%	40%	40%
Neutral	1	3	20%	60%	20%	60%
Oppose	2	5	40%	100%	40%	100%
Sum:	5	-	100%	-	100%	-
Not answered:	0	-	0%	-	-	-

Average:	2.6	Minimum:	1	Variance:	2.3
Median:	3	Maximum:	4	Std. deviation:	1.52

Total answered: 5

Levels To review rules and criteria regarding the use of cameras and sensors in robots.
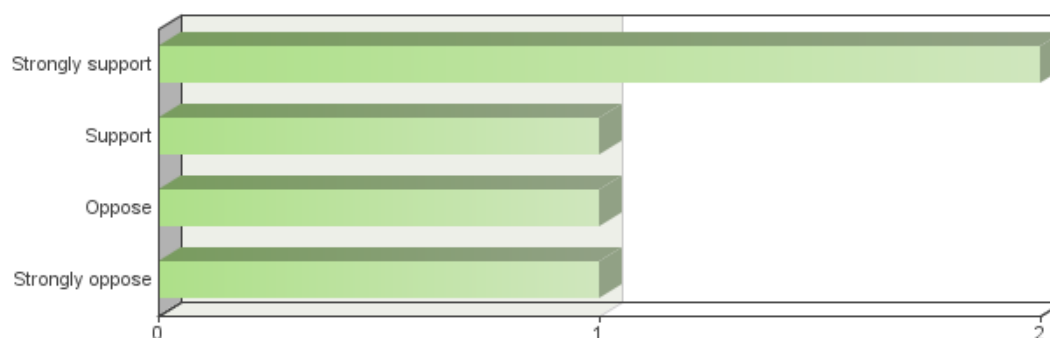
Frequency table

Levels		Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Strongly support		1	1	20%	20%	20%	20%
Support		2	3	40%	60%	40%	60%
Oppose		2	5	40%	100%	40%	100%
Sum:		5	-	100%	-	100%	-
Not answered:		0	-	0%	-	-	-
Average:	2.6	Minimum:	1		Variance:	1.8	
Median:	2	Maximum:	4		Std. deviation:	1.34	

Total answered: 5

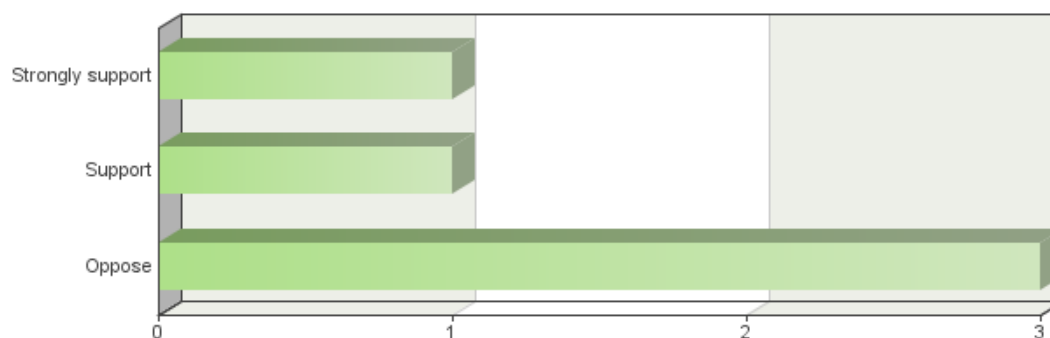## Levels To ensure transparent mechanisms for data subjects.

Frequency table

Levels		Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Strongly support		2	2	40%	40%	40%	40%
Support		1	3	20%	60%	20%	60%
Oppose		2	5	40%	100%	40%	100%
Sum:		5	-	100%	-	100%	-
Not answered:		0	-	0%	-	-	-
Average:	2.4	Minimum:	1		Variance:	2.3	
Median:	2	Maximum:	4		Std. deviation:	1.52	

Total answered: 5

Levels To ensure that appropriate remedies are available for data subjects in compliance with EU data protection law.
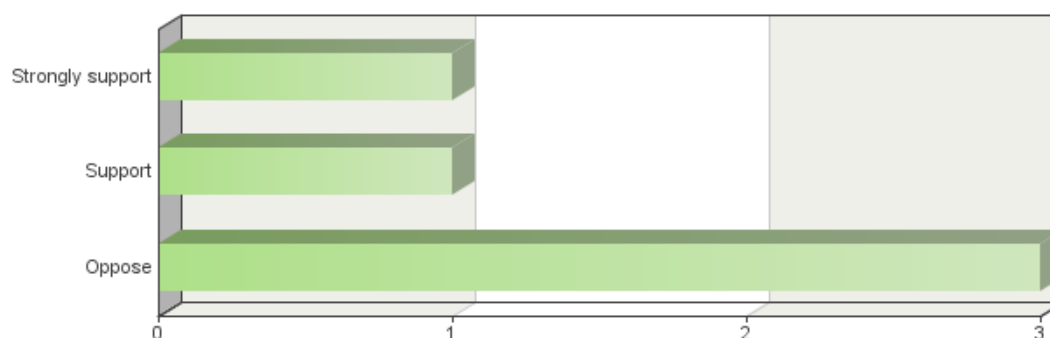
Frequency table

Levels		Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Strongly support		3	3	60%	60%	60%	60%
Oppose		2	5	40%	100%	40%	100%
Sum:		5	-	100%	-	100%	-
Not answered:		0	-	0%	-	-	-
Average:	2.2	Minimum:	1		Variance:	2.7	
Median:	1	Maximum:	4		Std. deviation:	1.64	

Total answered: 5

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) *

Frequency table

Choices	Absolute frequency	Cum. absolute frequency	Relative frequency by choice	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
free movement of data	2	2	20%	40%	40%	40%	40%
security of robotics systems, including their internal data systems and data flows	2	4	20%	40%	80%	40%	80%
security of networks of interconnected robots and AI	2	6	20%	40%	120%	40%	120%
protection of personal data	1	7	10%	20%	140%	20%	140%
privacy in communication between humans, robots and AI	2	9	20%	40%	180%	40%	180%
security by design, including an obligation for designers of robots and AI to develop products that are safe, secure and fit for purpose	1	10	10%	20%	200%	20%	200%
Sum:	10	-	100%	-	-	-	-
Not answered:	0	-	-	0%	-	-	-

Average:	3.2	Minimum:	1	Variance:	3.07
Median:	3	Maximum:	6	Std. deviation:	1.75

Total answered: 5

Text input
Clear liablity rules, testing zones

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?

Text input
Maybe it is not as evolutionary as what an AI will perform
1) Ne pas pouvoir déposer de brevet sur un algorithme 2) Le partage des données reste opaque pour le citoyen européen

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 ...' *

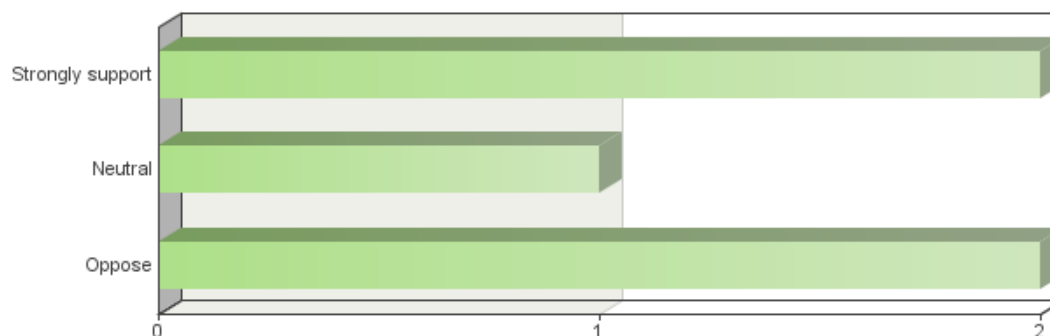## Levels for future competition in this field.

Frequency table

Levels		Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Agree		1	1	20%	20%	100%	100%
Sum:		1	-	20%	-	100%	-
Not answered:		4	-	80%	-	-	-
Average:	2	Minimum:	2		Variance:		
Median:	2	Maximum:	2		Std. deviation:		

Total answered: 1
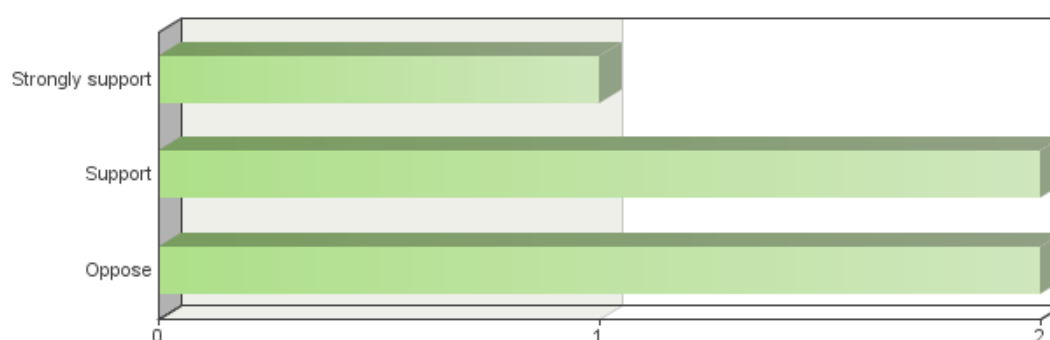
Levels to foster innovation.

Frequency table

Levels		Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
I do not know		1	1	20%	20%	100%	100%
Sum:		1	-	20%	-	100%	-
Not answered:		4	-	80%	-	-	-
Average:	5	Minimum:		5	Variance:		
Median:	5	Maximum:		5	Std. deviation:		

Total answered: 1

Levels to avoid fragmentation of the international market.
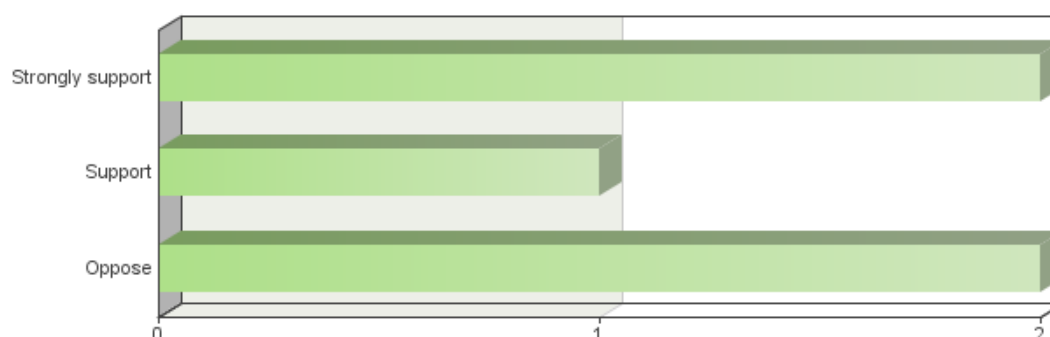

Frequency table

Levels		Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
I do not know		1	1	20%	20%	100%	100%
Sum:		1	-	20%	-	100%	-
Not answered:		4	-	80%	-	-	-
Average:	5	Minimum:		5	Variance:		
Median:	5	Maximum:		5	Std. deviation:		

Total answered: 1

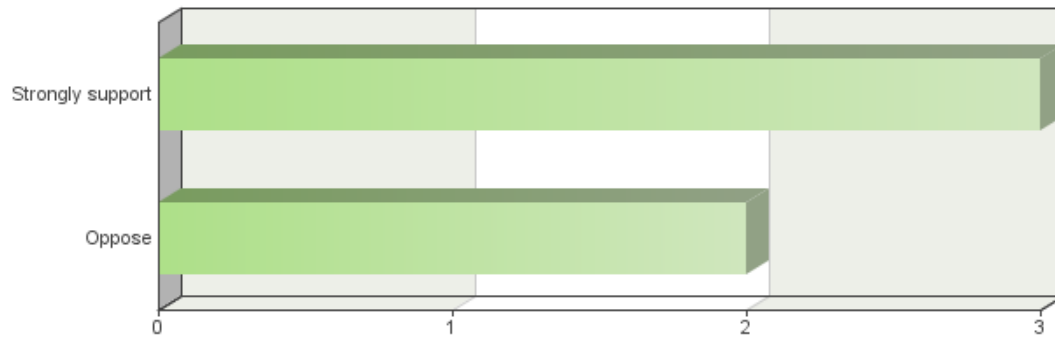## Levels to guarantee a high level of product safety.

Frequency table

Levels		Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Agree		1	1	20%	20%	100%	100%
Sum:		1	-	20%	-	100%	-
Not answered:		4	-	80%	-	-	-
Average:	2	Minimum:	2		Variance:		
Median:	2	Maximum:	2		Std. deviation:		

Total answered: 1

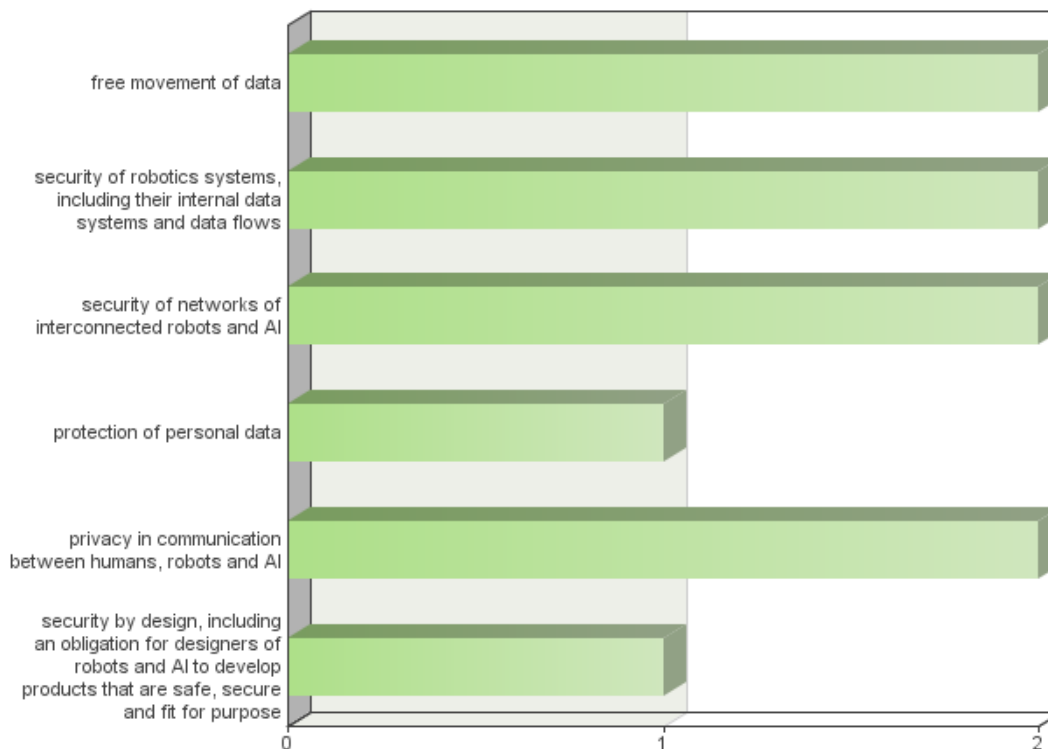## Levels to guarantee consumer protection.

Frequency table

Levels		Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Agree		1	1	20%	20%	100%	100%
Sum:		1	-	20%	-	100%	-
Not answered:		4	-	80%	-	-	-
Average:	2	Minimum:	2		Variance:		
Median:	2	Maximum:	2		Std. deviation:		

Total answered: 1

Question 83

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

Levels EU involvement in the international harmonisation of technical standards, in particular together with the European Standardisation Organisations and International Organization for Standardization.

Frequency table

Levels		Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Important		1	1	20%	20%	100%	100%
Sum:		1	-	20%	-	100%	-
Not answered:		4	-	80%	-	-	-
Average:	2	Minimum:	2		Variance:		
Median:	2	Maximum:	2		Std. deviation:		

Total answered: 1

Levels Revision of EU legislation in light of development of robotics and AI.

Levels	Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Very important	1	1	20%	20%	100%	100%
Sum:	1	-	20%	-	100%	-
Not answered:	4	-	80%	-	-	-

Average:	1	Minimum:	1	Variance:	
Median:	1	Maximum:	1	Std. deviation:	

Total answered: 1

Levels Elaboration of uniform criteria across all EU Member States which individual Member States should use in order to identify areas where experiments with robots are permitted.

Frequency table

Levels	Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Important	1	1	20%	20%	100%	100%
Sum:	1	-	20%	-	100%	-
Not answered:	4	-	80%	-	-	-

Average:	2	Minimum:	2	Variance:	
Median:	2	Maximum:	2	Std. deviation:	

Total answered: 1

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	20%	20%	100%	100%
Sum:		1	-	20%	-	100%	-
Not answered:		4	-	80%	-	-	-
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
Strongly support		1	1	20%	20%	100%	100%
Sum:		1	-	20%	-	100%	-
Not answered:		4	-	80%	-	-	-
Average:	1	Minimum:	1		Variance:		
Median:	1	Maximum:	1		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
Strongly support		1	1	20%	20%	100%	100%
Sum:		1	-	20%	-	100%	-
Not answered:		4	-	80%	-	-	-
Average:	1	Minimum:	1		Variance:		
Median:	1	Maximum:	1		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	20%	20%	100%	100%
Sum:		1	-	20%	-	100%	-
Not answered:		4	-	80%	-	-	-
Average:	3	Minimum:	3		Variance:		
Median:	3	Maximum:	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
Strongly oppose		1	1	20%	20%	100%	100%
Sum:		1	-	20%	-	100%	-
Not answered:		4	-	80%	-	-	-
Average:	5	Minimum:	5		Variance:		
Median:	5	Maximum:	5		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
Support		1	1	20%	20%	100%	100%
Sum:		1	-	20%	-	100%	-
Not answered:		4	-	80%	-	-	-
Average:	2	Minimum:	2		Variance:		
Median:	2	Maximum:	2		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
Oppose		1	1	20%	20%	100%	100%
Sum:		1	-	20%	-	100%	-
Not answered:		4	-	80%	-	-	-
Average:	4	Minimum:	4		Variance:		
Median:	4	Maximum:	4		Std. deviation:		

Total answered: 1

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

Levels		Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
Support		1	1	20%	20%	100%	100%
Sum:		1	-	20%	-	100%	-
Not answered:		4	-	80%	-	-	-
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	20%	20%	100%	100%
Sum:		1	-	20%	-	100%	-
Not answered:		4	-	80%	-	-	-
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	20%	20%	100%	100%
Sum:		1	-	20%	-	100%	-
Not answered:		4	-	80%	-	-	-
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
disagree		1	1	20%	20%	100%	100%
Sum:		1	-	20%	-	100%	-
Not answered:		4	-	80%	-	-	-
Average:	4	Minimum:	4		Variance:		
Median:	4	Maximum:	4		Std. deviation:		

Total answered: 1

Text input

Les compétences existent, mais la "croissance" de l'économie de la robotique et de l'IA est plus rapide que celle de la "formation".

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
disagree		1	1	20%	20%	100%	100%
Sum:		1	-	20%	-	100%	-
Not answered:		4	-	80%	-	-	-
Average:	4	Minimum:	4		Variance:		
Median:	4	Maximum:	4		Std. deviation:		

Total answered: 1

Text input

Cela revient à une taxation supplémentaire du capital. Il faut favoriser l'investissement du capital pour développer de nouveaux emplois et de la formation continue, pas le taxer pour protéger les anciens. Nous avons besoin de ces investissement pour améliorer notre productivité.

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
disagree		1	1	20%	20%	100%	100%
Sum:		1	-	20%	-	100%	-
Not answered:		4	-	80%	-	-	-
Average:	4	Minimum:	4		Variance:		
Median:	4	Maximum:	4		Std. deviation:		

Total answered: 1

Text input

Cela revient à une taxation supplémentaire du capital. Il faut favoriser l'investissement du capital pour développer de nouveaux emplois et de la formation continue, pas le taxer pour protéger les anciens. Nous avons besoin de ces investissement pour améliorer notre productivité.

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

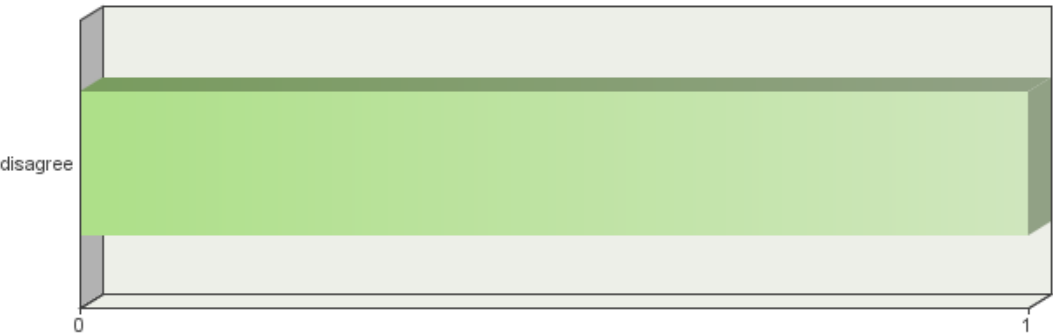| Choices		Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
agree		1	1	20%	20%	100%	100%
Sum:		1	-	20%	-	100%	-
Not answered:		4	-	80%	-	-	-
Average:	2	Minimum:	2		Variance:		
Median:	2	Maximum:	2		Std. deviation:		

Total answered: 1

Text input

Il faut être conscient que les premiers à bénéficier de ces gains de productivité sont les GAFA. Il faut trouver les mécanismes pour mettre fin aux optimisations fiscales des ces groupes en Europe pour qu'ils contribuent au développement de nos régimes de sécurité sociale. Sans que cela n'ait l'effet de pénaliser les entreprises émergentes.

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
disagree		1	1	20%	20%	100%	100%
Sum:		1	-	20%	-	100%	-
Not answered:		4	-	80%	-	-	-
Average:	4	Minimum:	4		Variance:		
Median:	4	Maximum:	4		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
strongly disagree		1	1	20%	20%	100%	100%
Sum:		1	-	20%	-	100%	-
Not answered:		4	-	80%	-	-	-
Average:	5	Minimum:	5		Variance:		
Median:	5	Maximum:	5		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'. *

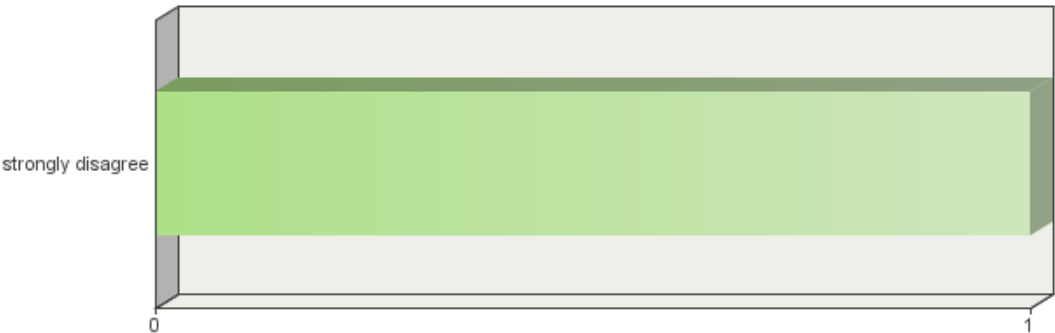### Frequency table

Choices		Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
strongly disagree		1	1	20%	20%	100%	100%
Sum:		1	-	20%	-	100%	-
Not answered:		4	-	80%	-	-	-
Average:	5	Minimum:	5		Variance:		
Median:	5	Maximum:	5		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	20%	20%	100%	100%
Sum:		1	-	20%	-	100%	-
Not answered:		4	-	80%	-	-	-
Average:	12	Minimum:	12		Variance:		
Median:	12	Maximum:	12		Std. deviation:		

Total answered: 1

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	20%	20%	100%	100%
Sum:		1	-	20%	-	100%	-
Not answered:		4	-	80%	-	-	-
Average:	2	Minimum:	2		Variance:		
Median:	2	Maximum:	2		Std. deviation:		

Total answered: 1

Text input
D'accord dans la version proposée par Gaspard Koenig

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: *

Frequency table

Choices	Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
those tasks should be designated to an already existing EU agency	1	1	20%	20%	100%	100%
Sum:	1	-	20%	-	100%	-
Not answered:	4	-	80%	-	-	-

|						
Average:	2	Minimum:	2	Variance:		
Median:	2	Maximum:	2	Std. deviation:		

Total answered: 1

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? *
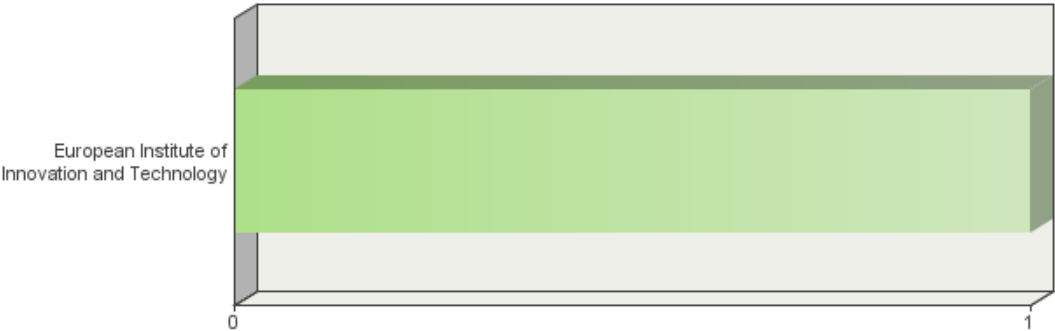
Frequency table

Choices	Absolute frequency	Cum. absolute frequency	Relative frequency	Cum. relative frequency	Adjusted relative frequency	Cum. adjusted relative frequency
European Institute of Innovation and Technology	1	1	20%	20%	100%	100%
Sum:	1	-	20%	-	100%	-
Not answered:	4	-	80%	-	-	-

Average:	1	Minimum:	1	Variance:	
Median:	1	Maximum:	1	Std. deviation:	

Total answered: 1

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)

Text input
In this questionnaire, there was no mention of the fact that an RN can replace an employee. I think the issue of taxing robots as employees should be addressed because an answer is needed on this point.

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)

Text input
Our company is currently conducting an AI for the operation of a 200,000 m² neighborhood. We would like this type of demonstrator, which is a prototype of a city with artificial intelligence, to serve as a starting point for the reality of operational constraints.

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)