

EPRS



**EUROPEAN
PARLIAMENTARY
RESEARCH
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Public consultation on robotics and Artificial Intelligence

First (preliminary) results of public consultation

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RECAP: OVERALL CONTEXT OF PUBLIC CONSULTATION ON ROBOTICS AND AI

— Aims:

- broad based debate with stakeholders on the **EP Resolution on Civil Law Rules on Robotics** (2015/2103(INL): Rapporteur: Mady Delvaux)
- to assess the feasibility and support for further potential EU policy initiatives on robotics and AI on the topics and issues identified in the Resolution
- collect primary data for forthcoming 2018 European Parliamentary Research Service's 'Cost of Non-Europe on Robotics and Artificial Intelligence' Report.

— Format and Methodology:

- Public consultation, **open to all** and in **all official EU languages**. Fully prepared and coordinated by the EP (JURI, DG EPRS, DG ITEC).
- **Two surveys:** one for general public [*15 questions*] and one for specialized audience [*17 general questions + 47 optional on specific policy fields*].
- Mix of multiple choice and open ended questions.
- Consultation **closed on 1/06/2017**

CLOSE TO 300 FULLY COMPLETED RESPONSES: KEY STATISTICS ON PARTICIPANTS



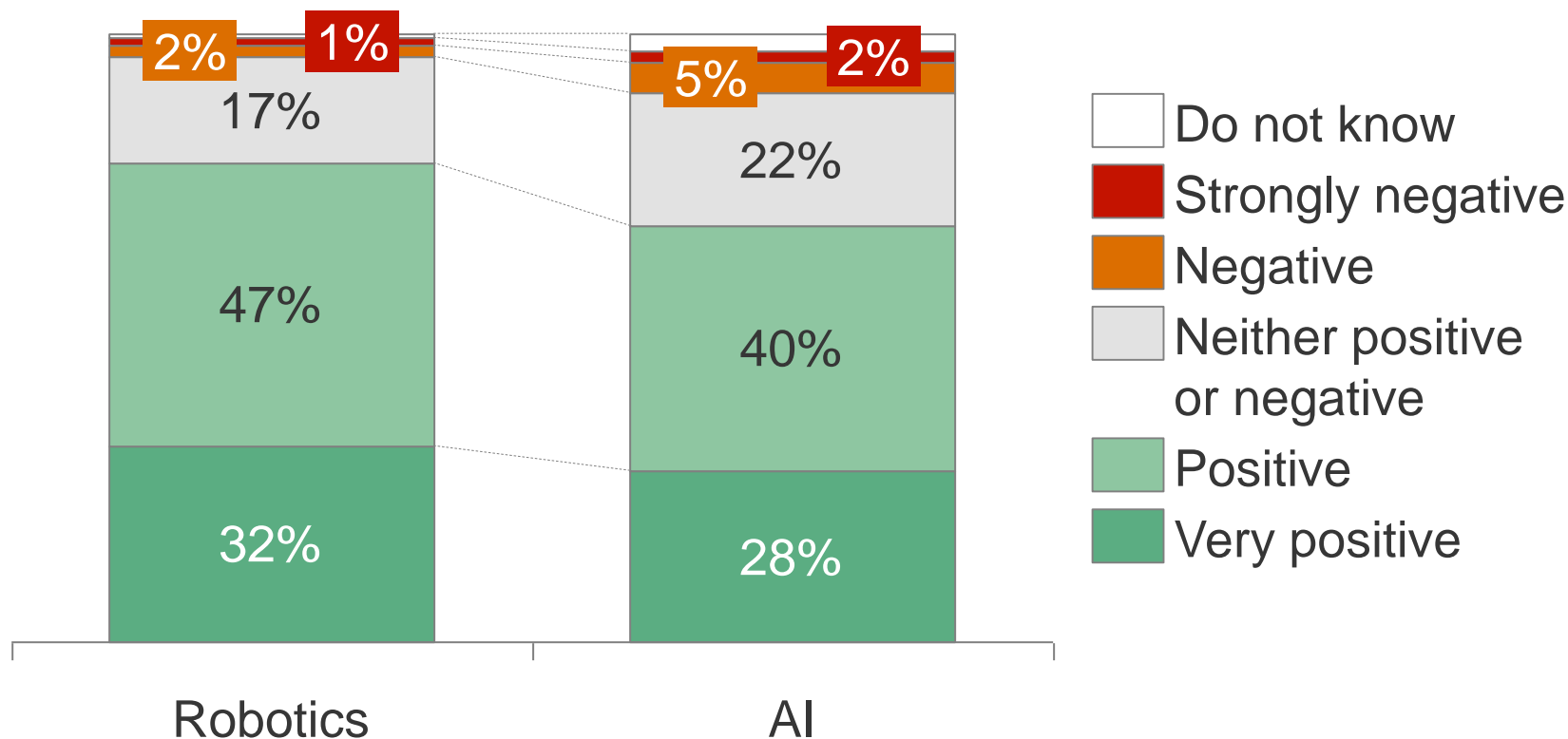
— **259 responses from private individuals**

- Participants from **23 EU MS** + Norway + 12 replies from non-EU MS (top: Germany, France, Spain)
- Age: mostly **25-39 (42%)** and **40-54 (36%)** while only 9% 15-24 and 3% over 65 years old
- Gender: **72% (male)** and 27% female (1% did not indicate)
- Education: **master level or above 65%**
- EU mobility: 58% (did not study or worked abroad) while 42% (studied or worked abroad)

— *39 responses from organizations*

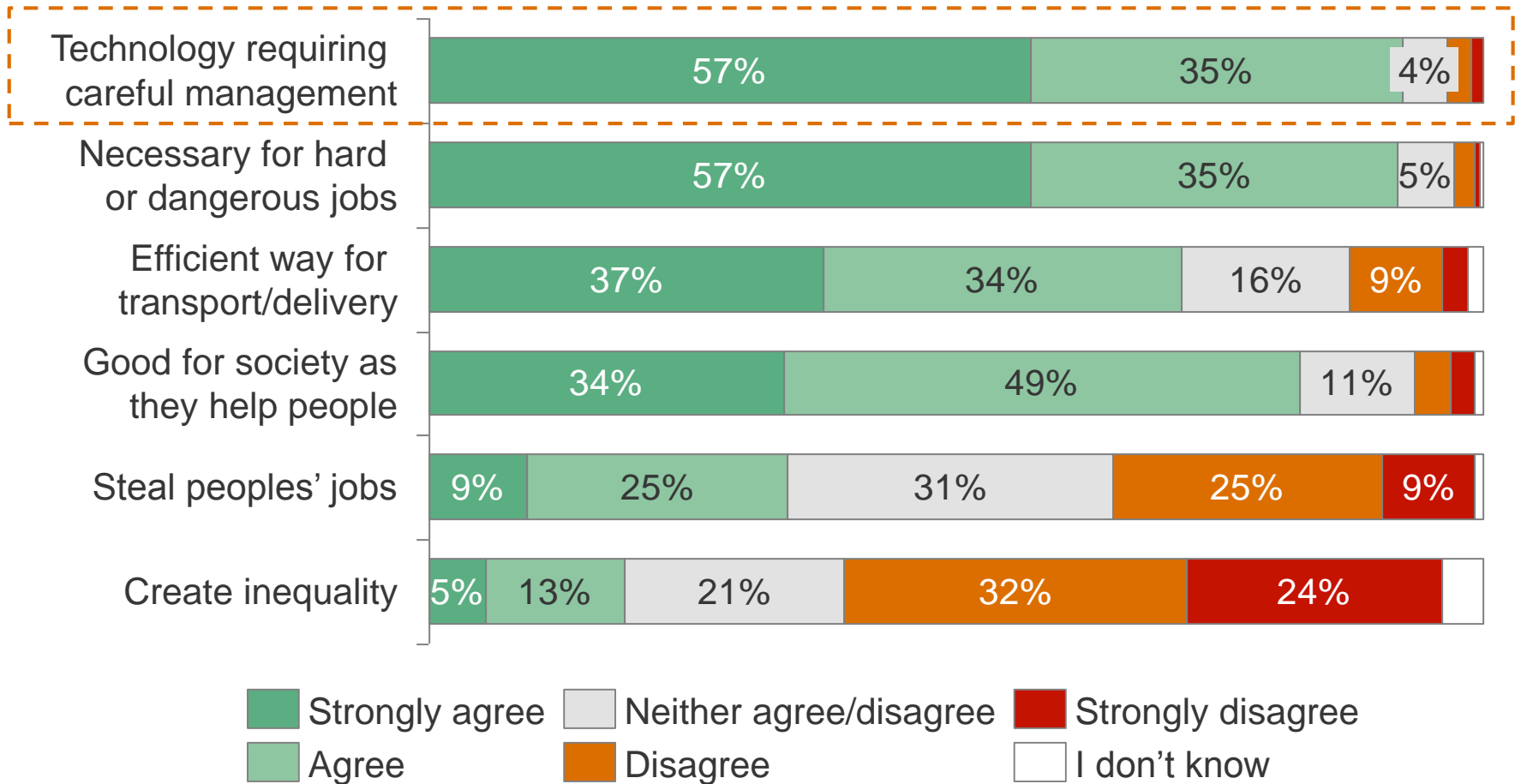
RESPONDENTS OVERALL HAVE POSITIVE ATTITUDE TOWARDS ROBOTICS & AI

Generally speaking, what is your view on robots / developments in AI?



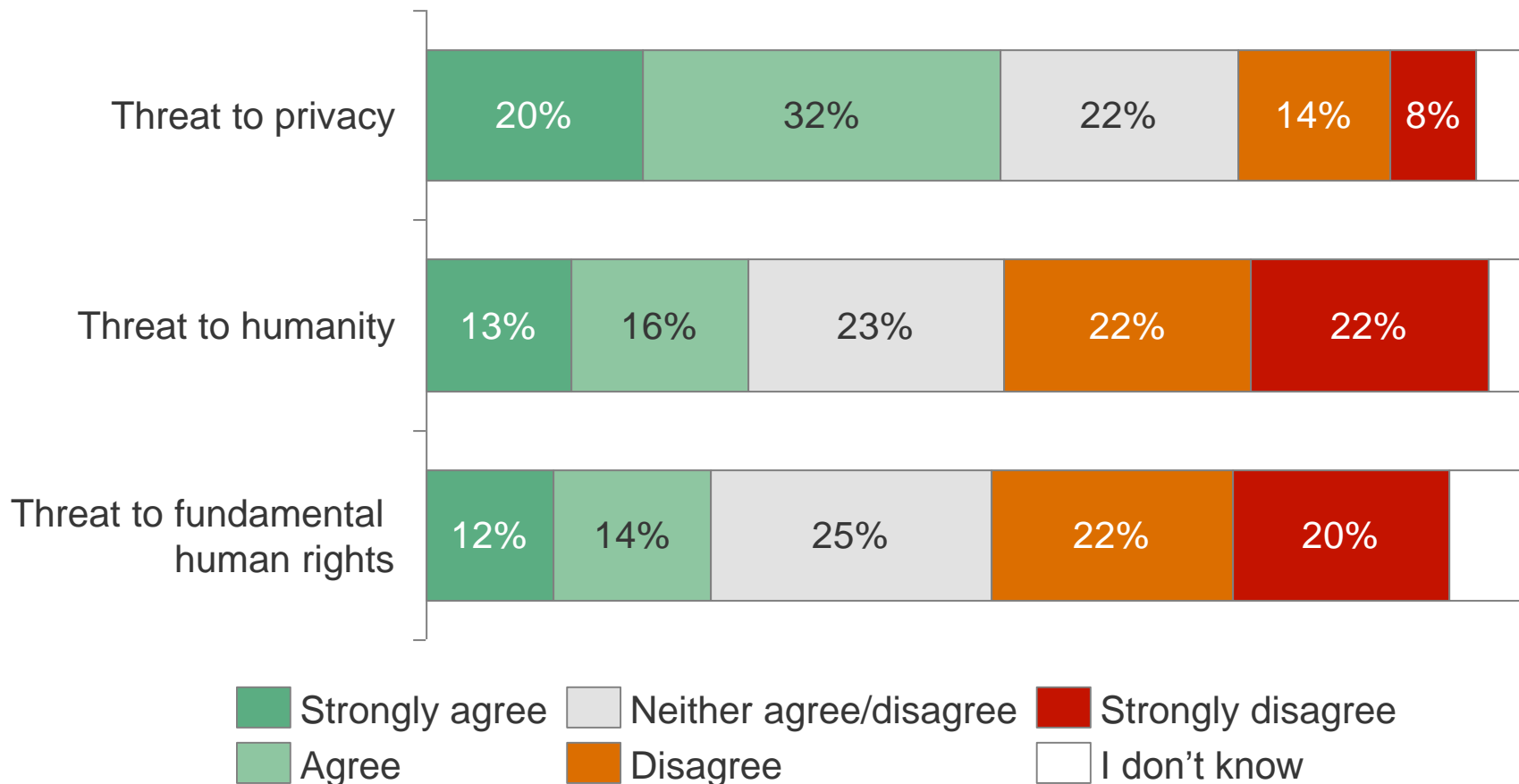
ROBOTICS: GENERALLY POSITIVE ATTITUDE, YET NEED TO CAREFULLY MANAGE

Please indicate to what extent you agree or disagree with following statements



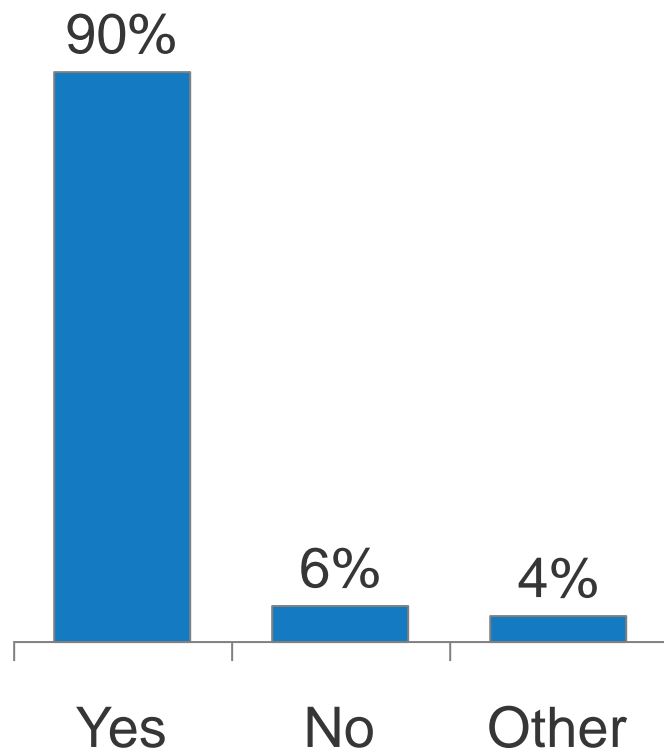
A.I.: MAJOR CONCERNS AROUND PRIVACY

Please indicate to what extent you agree or disagree with following statements



LARGE MAJORITY OF RESPONDENTS SUPPORT PUBLIC REGULATION OF ROBOTICS & AI

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



"Centrale regelgeving voorkomt differentiatie in wet- en regelgeving die niet wenselijk is binnen een zo gevoelig thema en gebieden (privacy, aansprakelijkheid e.d.)"

Netherlands, female (25-39 yr)

"Regulations is necessary, but doing it locally will lead to inequalities between countries and will brake the development of robotics in Europe compare to countries without regulations."

Belgian, male (25-39 yr)

" Es muss unbedingt geregelt werden, da viele unserer bisherigen Regelungen und Institutionen erweitert oder völlig neu gedacht und definiert werden müssen. Ich denke die EU ist hier richtig"

German, female (40-54 yr)

" Every EU regulation lead to more bureaucracy and innovation stagnancy. Creativity and innovation need freedom in development. "

German, male (40-54 yr)

"Regulation is not the solution for disruptive technologies. It should be the latest remedy if there is a market failure or a real danger that must be regulated"

Spanish, male (40-54 yr)

FIRST VIEW ON ARGUMENTS PRO/CONTRA



Positive response

Avoid abuse by industry

Need to address concerns about ethics, human rights, data protection and privacy

Need to set common standards for industry to have certainty

Consumer protection



Negative/other response

Hard or too soon to regulate emerging technologies

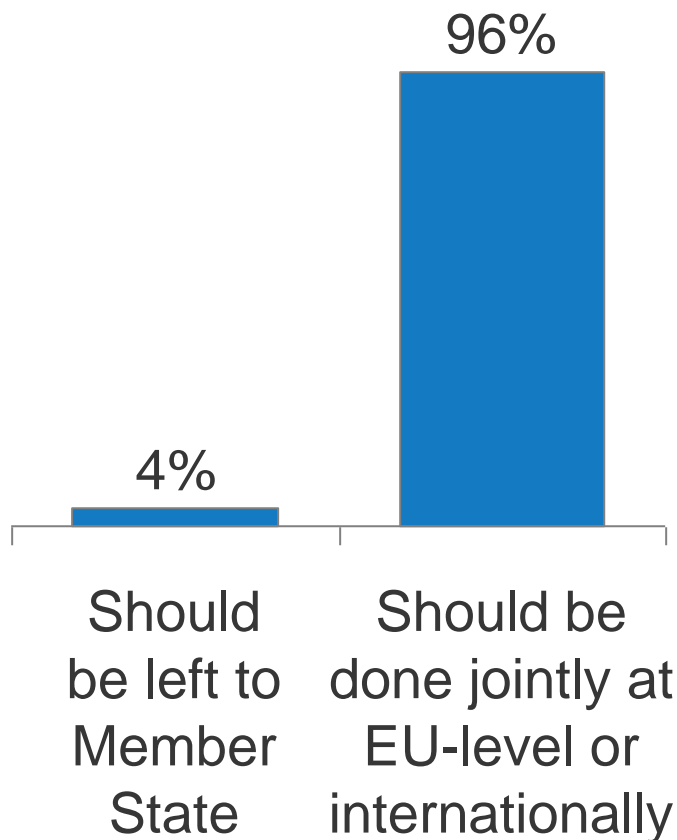
Regulation harming competitiveness

Regulation hindering innovation and creativity

Skepticism around any regulation / need to limit to general principles

MAJORITY PREFERS SUPRA-NATIONAL REGULATION

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



"At least very soon at EU level. Of course it is also necessary at international level, but it will take more time and the moral standards will be lower. "

Bulgarian, male (25-39 yr)

" As AI has no residency or nationality, question can't be solved using pure national or EU law, it's a supra national issue"

French, female (15-24 yr)

" EU level regulations will be the most effective way to standardize robotics at an international level."

Italian, male (25-39 yr)

"Chaque peuple doit pouvoir souverainement choisir ce qui est éthiquement bon pour lui. En légiférant de manière centrale, l'Europe outrepassé les droits que lui ont conféré ces peuples"

French, female (40-54 yr)

SEVERAL ARGUMENTS IN SUPPORT FOR REGULATION AT EU-LEVEL

Arguments for EU regulation

Protection of EU values (especially data protection, privacy, ethics)

Global competitiveness of EU

EU should be standard setter, first mover at international level

Avoid race to the bottom and promote fair competition within internal market

EU faster and more efficient to regulate vs. individual Member States or vs. international level

Better enforcement of regulation

" Ik denk dat het voor o.a. veiligheid en privacy belangrijk is dat het in heel de EU hetzelfde is"

Belgian, female (15-24 yr)

" EU should lead the topic, as missing regulation would lead to the situation that other regions will regulate it and pressure the EU to take on these regulations. "

German, male (40-54 yr)

" It is essential for the common EU market. "

Spain, male (25-39 yr)

" Wir benötigen exakt gleiche Regeln in der ganzen EU, nur dann sind die grundlegenden Bedingungen für alle Länder und Investoren gleich"

German, male (40-54 yr)

" The EU has the power to enforce given rules. If we do this on international level it takes too much time to have everyone on the boat. "

German, female (25-39 yr)

" Ich denke die EU ist hier richtig, weil einheitliche Regelungen auch Stärke in der Welt zeigen und wir so hoffentlich auch Standards für andere setzen "

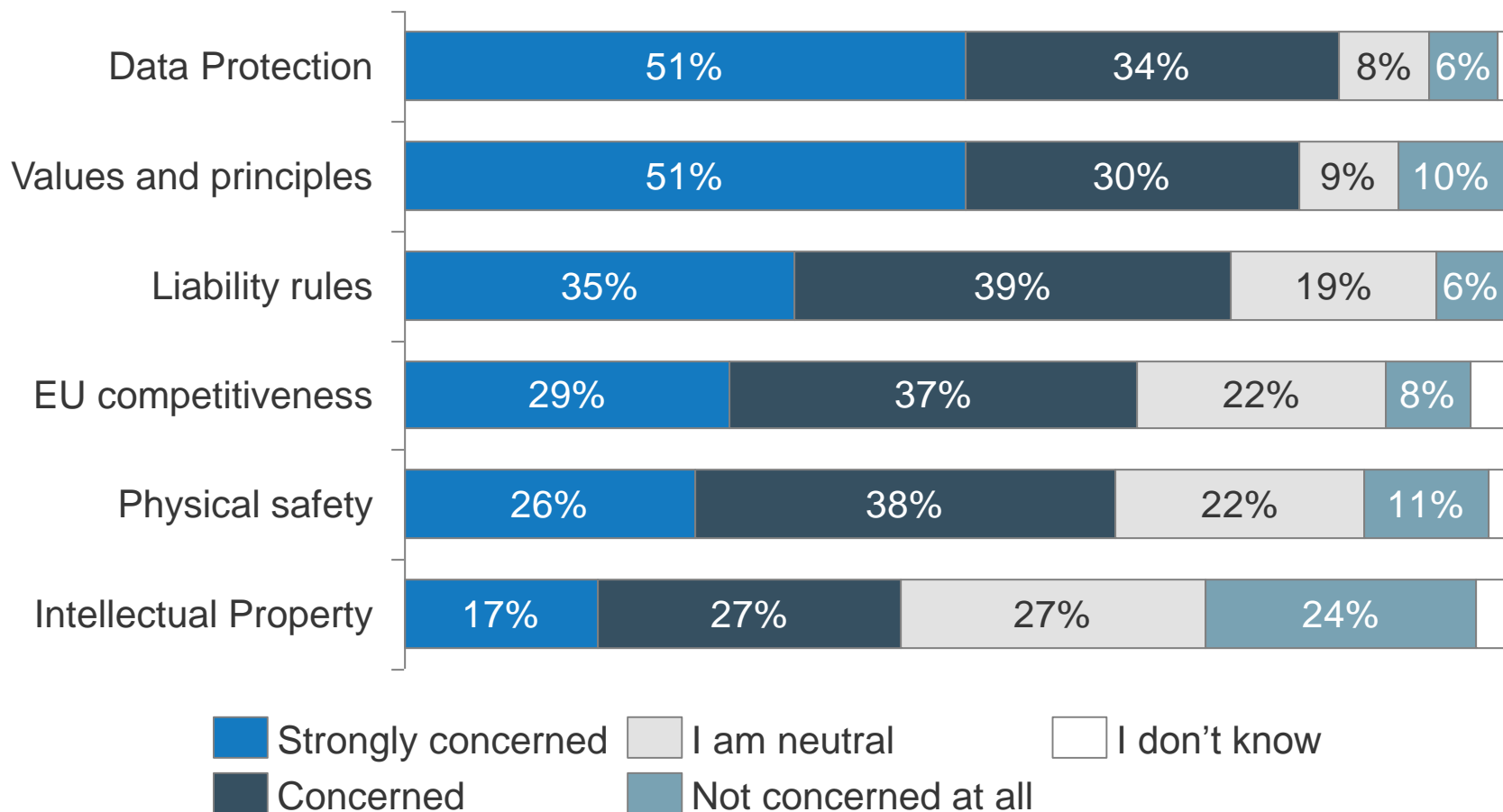
German, female (40-54 yr)

" I would say that regulation is very much necessary to avoid the race to the bottom "

Portuguese, male (25-39 yr)

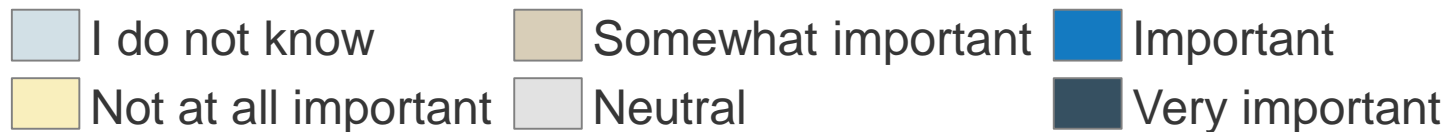
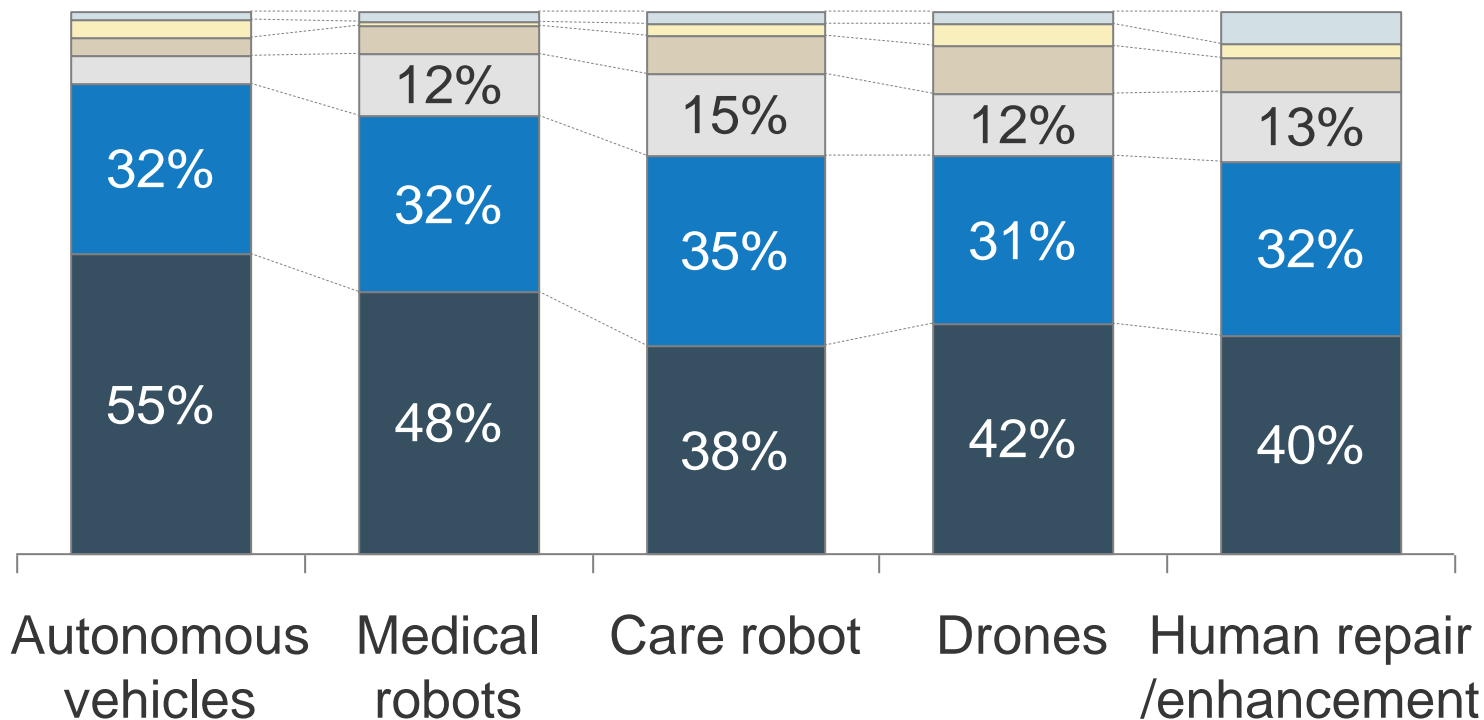
ARGUMENTS IN SUPPORT FOR REGULATION IN LINE WITH CONCERNS OF RESPONDENTS

Please indicate to what extent you feel concerned about the following issues



LARGE SUPPORT FOR EU REGULATORY ACTION ACROSS AREAS

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



KEY FINDINGS AND NEXT STEPS

— KEY FINDINGS

- Most respondents have **positive attitudes towards robotics and AI**
- Large Majority express **the need for public regulation** in the area
- ... and this regulation should be done at **EU and/or International level**

— NEXT STEPS

- **Summary Report** of the findings of the public consultation, to be publicly available
- **EPRS Cost-of Non Europe Report on Robotics and AI**

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