



## **HSbooster.eu**

Horizon Standardisation Booster

Al Standardisation and general aspects of AI for People with Disablities

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### Persons with Disabilites: Numbers

- 253 million people are affected by some form of blindness and visual impairment. This represents 3.2% of the world's population. That's twice Mexico's population
- 466 million people have a disabling deafness and hearing loss. This represents 6% of the world's population, that is to say all of the inhabitants of the European Union!
- About 200 million people have an intellectual disability (IQ below 75). This
  represents 2.6% of the world's population. It covers the number of inhabitants
  in Brazil!
- 75 million people need a wheelchair on a daily basis. This represents 1% of the world's population. That's twice Canada's population!

Source: https://www.inclusivecitymaker.com/disabled-people-in-the-world-in-2021-facts-and-figures/



#### Possible solutions

- Customizing and automatic re-engineering of websites
- Automated image descriptions ALT-textes
- Automatic captioning
- Sign language avatars
- Translation into simple language
- Augmented Reality for people with limited mobility
- Learning for people with dyslexia and learning difficulties
- Robots for care
- Smart home, smart cities
- Wearables for mobility, orientation
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## **Problems**

- Accessibility and Usablility (Design4All)
- Interoperability and standardization
- Discrimination over data, Bias
- Blackboxing
- Privacy and Security
- Affordability
- Digital Skills Digital Gap
- Trustwortyness
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## Trustworthiness

- Lawful
- Ethical
  - Human agency and oversight
  - Technical robustness and safety
  - Privacy and data governance
  - Transparency
  - Diversity and non-discrimination
  - Societal and environmental wellbeing
  - Accountablity
- Robust



# Guidelines/Links

#### **Ethics Guidelines for Trustworthy AI:**

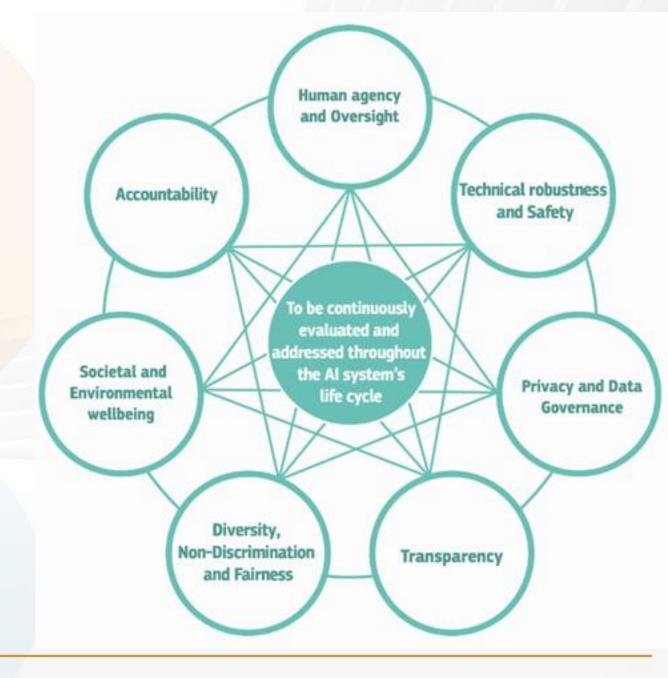
https://ec.europa.eu/futurium/en/ai-allianceconsultation.1.html

#### Join Futurium:

https://futurium.ec.europa.eu/

<u>ALTAI-</u> Assessment List for Trustworthy Artificial Intelligence:

https://futurium.ec.europa.eu/en/european-ai-alliance/pages/welcome-altai-portal







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# Thank you

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