

# AGE AGAINST THE MACHINE

## A CALL FOR DESIGNING ETHICAL AI WITH, BY, FOR CHILDREN

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### MOTIVATION

- AI has evolved to mimic human-like cognition, emotions, conversations, and decision-making, with various biases and discrimination.
- As children increasingly interact with AI systems, the impact on them and their futures needs to be critically examined by, with, and for children.
- However, currently, there is little discussion with children on the limitations, inherent biases, and lack of diversity in current design and development of AI.
- This workshop is part of the PAIZ project, which explores critical AI literacy with children across the world: <https://interact oulu.fi/paiz>

### METHOD

We conducted a one-day workshop at NordiCHI 2022 with 8 participants and 5 organisers, with

- Expert talks on Critical Design Fiction and on Future of technology-rich world
- Hands-on design fiction activity to imagine future entities in a school context
- In the hands-on activity, the online team co-design with two children.
- Data collected includes researcher notes and activity sheets, and children's and adults' drawing; all analysed using thematic analysis

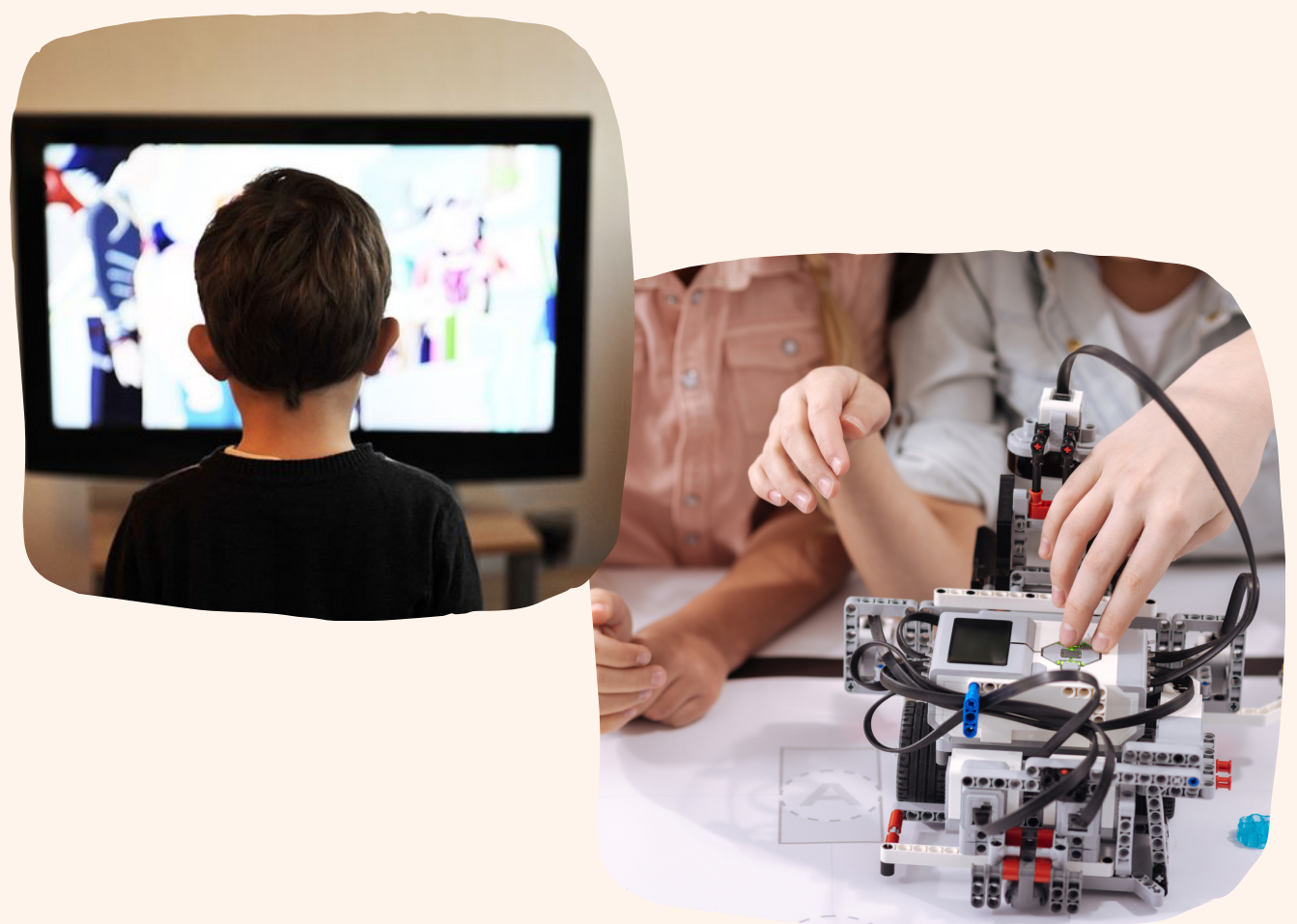


### MAIN OUTCOMES

- Imagined entities varied between the fantastical and magic, like a male mermaid teacher, to extrapolation of current technologies such as adaptive learning robot-teddy bear to suit diverse learners in the classroom
- Participants raised critical issues regarding AI literacy for children, such as,
  - finding / creating age appropriate content,
  - how much to share, such that, the burden of responsibilities is balanced, that is, the intent is not to scare the children or break their trust of society and technology.

### VISION FOR THE FUTURE

- Empowering children in their use of AI systems
- AI as a medium for children's expressions
- Creating a symbiosis for child-AI interactions
- Opportunities for children to critique and contribute to AI systems' ideations and design
- Open discussions with children on ethical implications of AI systems- to the individual, to diverse communities, to societies etc, considering sustainability from various perspectives



[HTTPS://INTERACT.OULU.FI/AATM](https://interact oulu.fi/aatm)