# ETHICAL CONSIDERATIONS

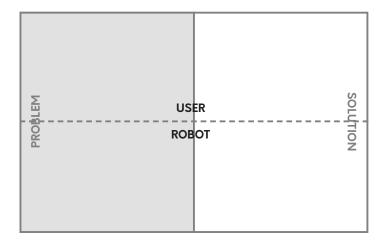
#### SOCIAL ROBOT CO-DESIGN CANVASES

Consider potential ethical problems, and potential solutions —both from the user's and robot's perspectives.

Consider the boxes to be guidelines: you don't need to fill each one.

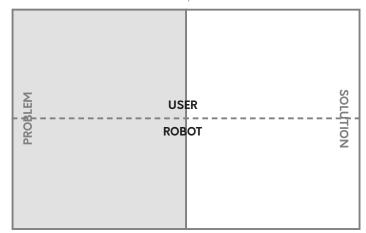
### Physical safety

Machines can pinch or crush the user. How is this mitigated?



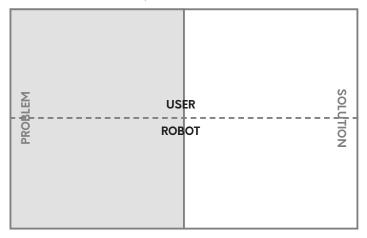
### **Data security**

Is the robot in a unique data collection position? How is the user's data protected?



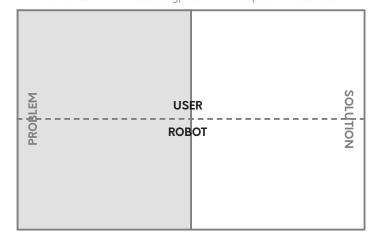
## **Transparency**

How does the robot share an accurate perception of its abilities, intentions and constraints, so the user can evaluate their trust in it?



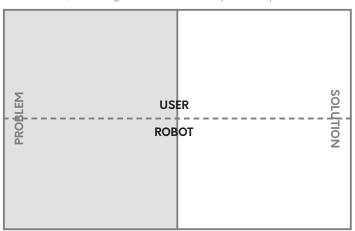
# **Equality across users**

Robots' algorithms can be biased. A robot's appearance could reinforce harmful stereotypes. What are potential issues?



## **Emotional consideration**

People have been shown to form emotional attachments to robots, as if they were alive. Is this a potential problem?



#### Behaviour enforcement

People could transfer their inappropriate behaviour, such as rudeness, from robots to humans. How is this mitigated?

