# ETHICAL CONSIDERATIONS

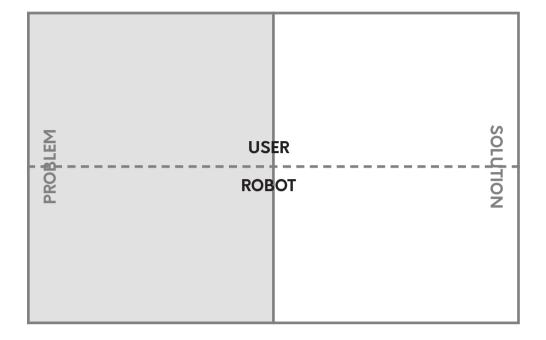
#### **SOCIAL ROBOT CO-DESIGN CANVASES**

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.

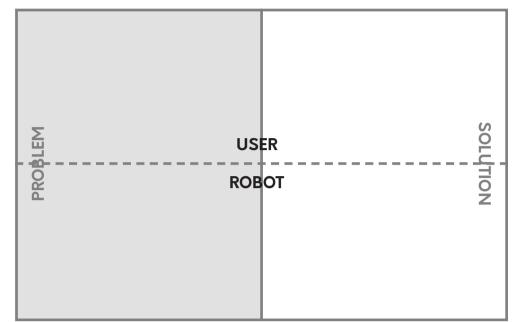
#### Physical safety

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



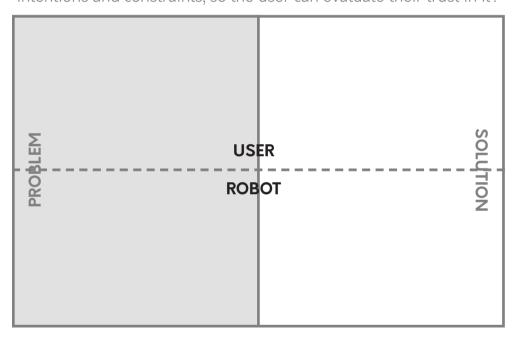
#### **Data security**

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



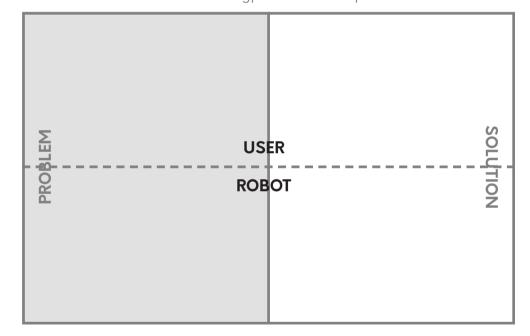
### **Transparency**

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



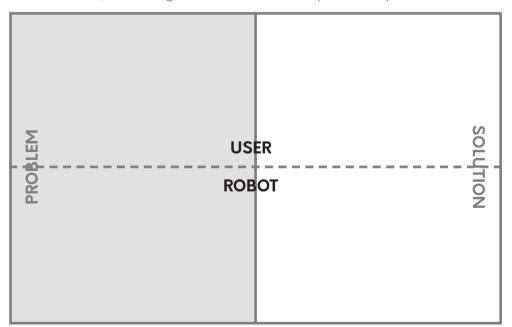
## **Equality across users**

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



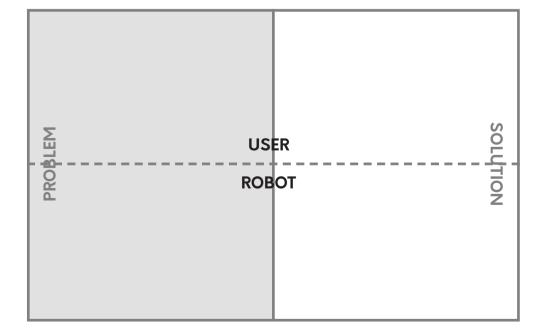
### **Emotional consideration**

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?





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