# BEHAVIOUR SOCIAL ROBOT CO-DESIGN CANVASES

What factors guide the robot's behaviour?

#### Robot's role

Is the robot a friend? Teacher? Helper? Something else?

### **Motivation**

How is the robot's behaviour motivated? Is it based on external data, internal models such as personality, or both?

external / environment both internal based

# Personality

Does the robot have specific characteristics?

Does it have emotional states, or needs?

TRADE-OFF:

More personality creates more emotional bond.

# Social behaviours

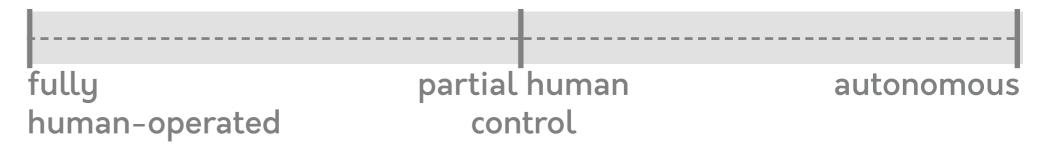
What social behaviours does the robot exhibit?

# Mode of operation

Is the robot operating by itself, or is a human affecting behaviour? Is a human in full control?

TRADE-OFF:

A human-operated robot requires a good user interface, an autonomous robot requires a good control logic.

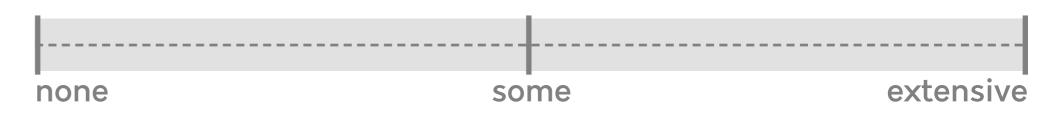


## Social skills

How good are the robot's social skills: does it greet a new person and ask their name? Does it follow people with its gaze?

TRADE-OFF:

Extensive social skills require a more sophisticated robot.

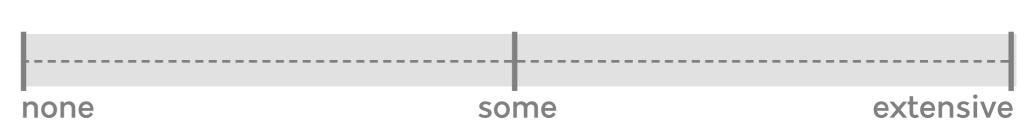


# Contextual adaptation

Does the robot's behaviour vary according to context, e.g. by weather or time of day?

TRADE-OFF:

More contextual adaptation requires a more sophisticated robot.



## Context-based behaviour

What external and environmental factors affect behaviour? What data is used to adapt to context?

# Personalization

Does the robot behave differently toward different people? Does it need to remember people, and store their data?

TRADE-OFF:

More personalization requires more personal data from the user.

