

# Who let the bots out?!

Playing Our Way Through Forest with Robots

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#### **Robots: From Labs to Homes to Forests?**

- Robots are no longer futuristic; they're here and among us.
- → In homes (e.g., vacuum bots), hospitals (e.g., surgical robots), streets (e.g., delivery bots), and workplaces (e.g., industrial arms).
- But what happens when we move beyond urban and controlled settings?
- → The forest presents a complex, unpredictable, and sensory-rich environment.
- Robots in the forest challenge traditional HRI assumptions.
- → How should a robot behave in the wild?
- → What roles can it play?
- → What relationships might it build?
- Me're now exploring how robots might become companions in the forest
- → Not just tools or helpers, but co-explorers, playmates, storytellers, or ecological provocateurs.



#### What Have We Done So Far?

- 1) in Participatory design (PD) workshops

  for understanding the design space of companion robots for the wild
- 3) **W** A Workshop on exploring play to ideate and design forest-robot interactions

to create goal-driven and recreational forest-robot concepts through games and play



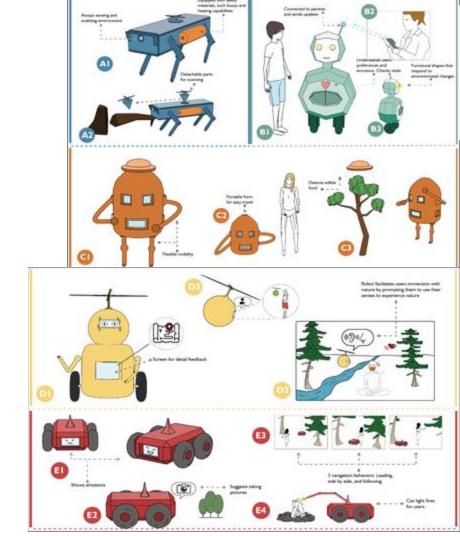
# Robot Concepts from PD Workshop





↑ ♂ • A Robot as the barrier between human and danger

♣ 📝 😕 Robot as facilitator of active sensing and engagement in the forest





## **Outdoor Walking with a Robot Companion**

- Projected relationalities
- Fobot adds dynamism to embodied interaction
- Robot affects social perception of self and others
- From ambiguity towards playful explorations





# Playful Ideation and Design of Forest-Robot Interactions

- 🦚 🧩 Play as a mode of creation or creativity
- 🕺 🍥 Bodystorming
- 🎬 🌛 Storyboarding and video sketching



# **Concepts Created Through Playful Creation (1)**

#### Hey, fellow animals!

- Robot mingling with animals in the forest
- Robot creating a balance and harmony in the forest
- Robot becoming a part of the forest





## **Concepts Created Through Playful Creation (2)**

# Justice for Mushrooms!

- Robot protects
   valuable forest
   resources
- Robot drives

   dangers away from
   valuable resources







# **Concepts Created Through Playful Creation (3)**

#### Mosquitonomous

- Robot as a community driver
- Robot collect,
   specific forest data



### Thank You!