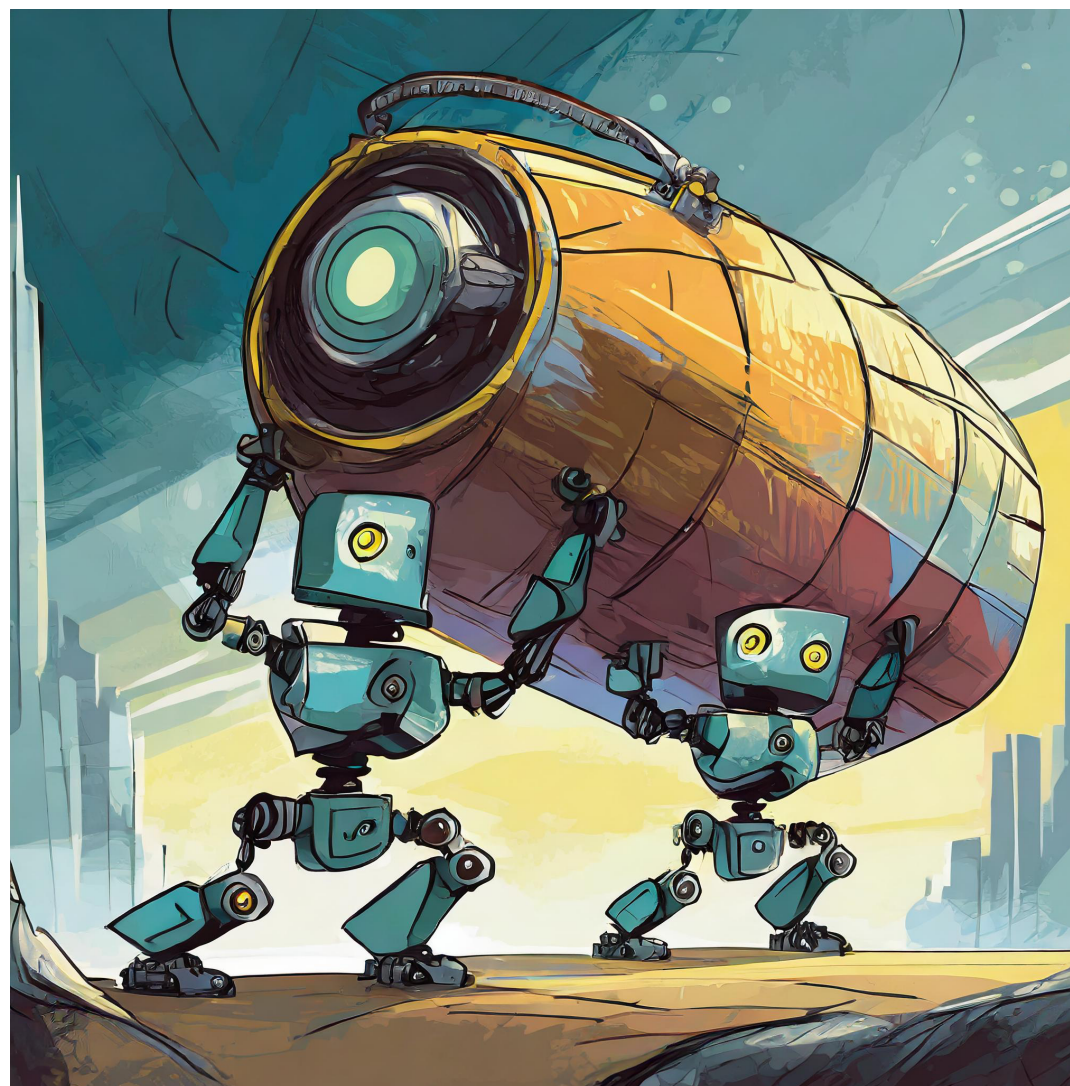


Today



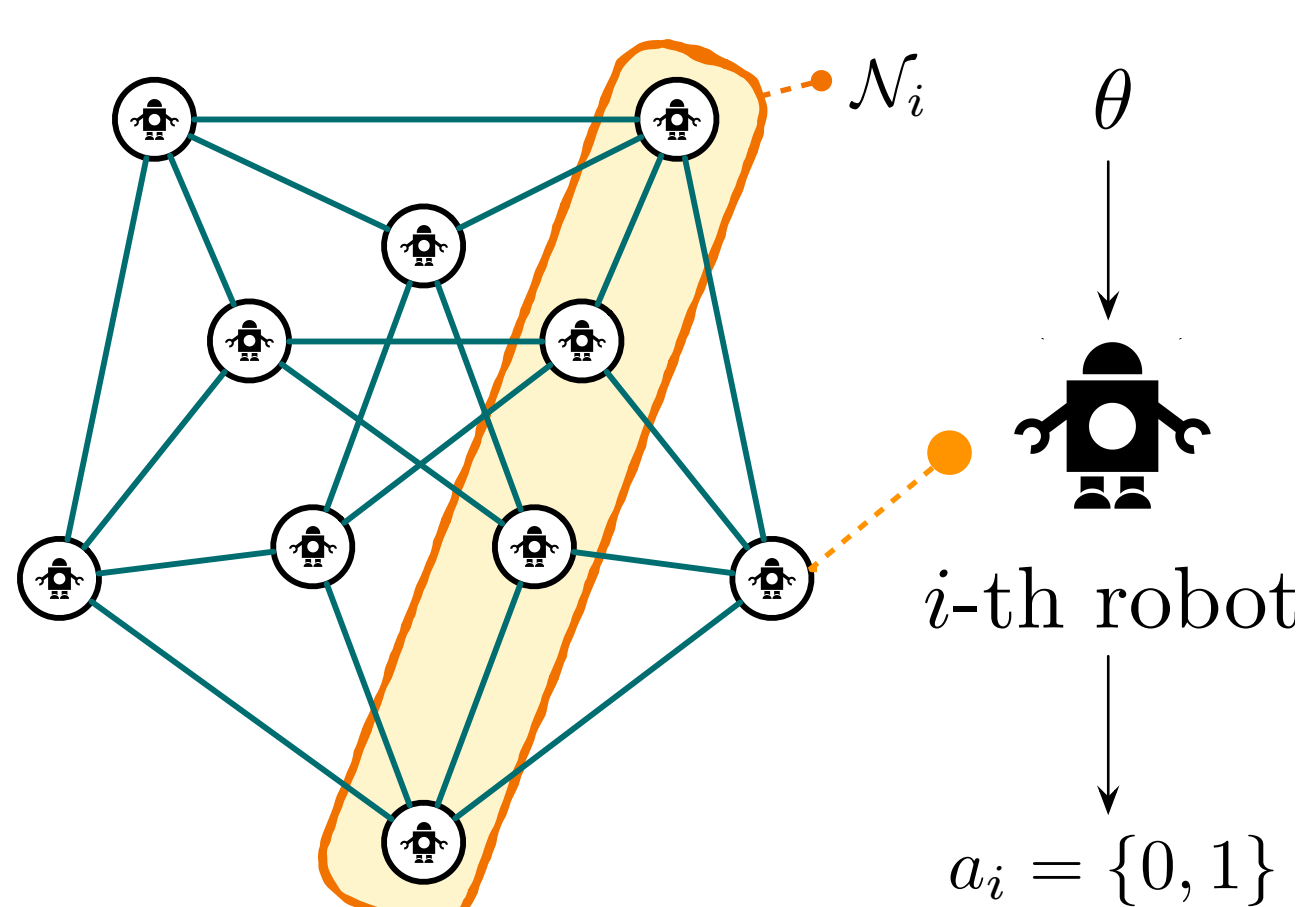
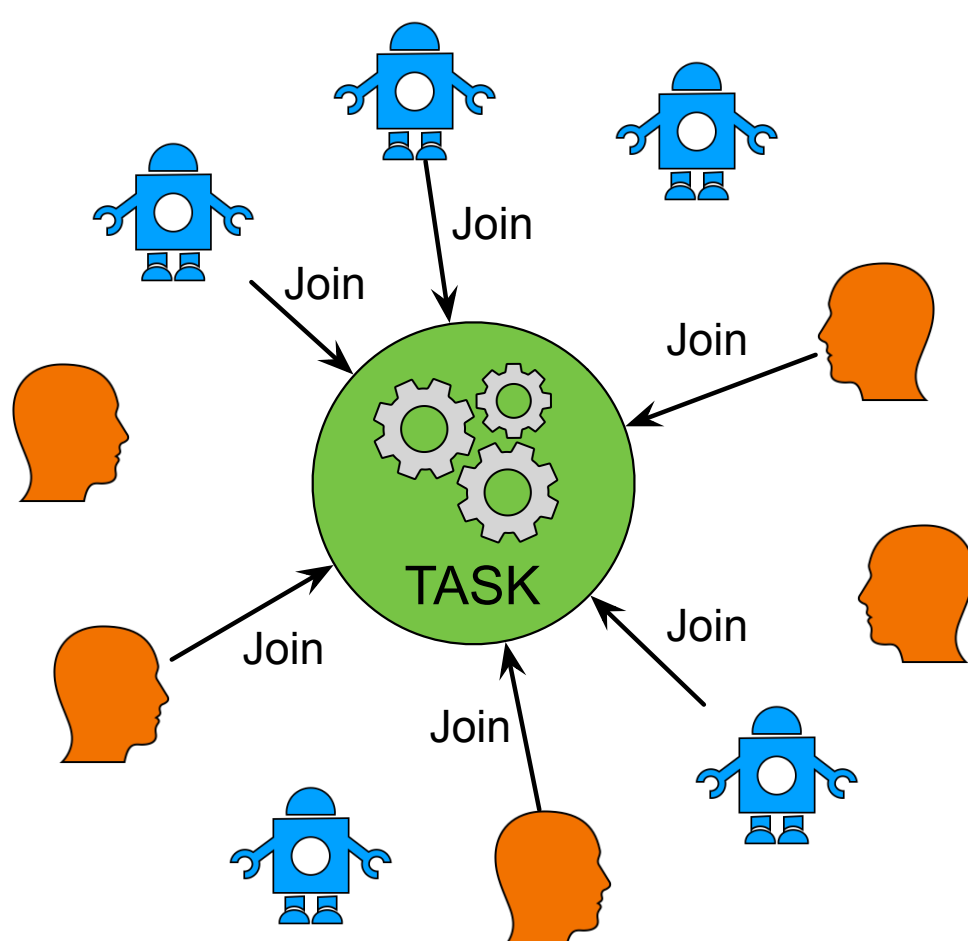
In a (not too) distant future



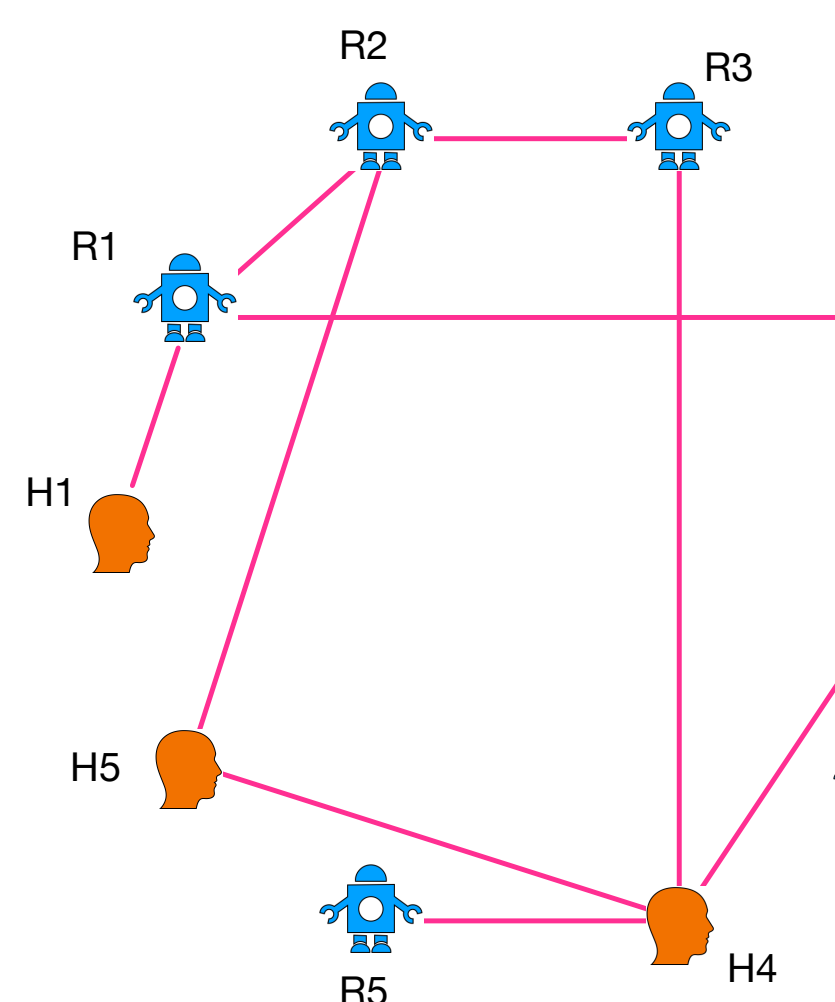
Can robots and humans coordinate to work together?

The goal of this project is to characterize the limits of strategic coordination in task-oriented hybrid teams consisting of humans and robots, and design learning methods to achieve the best possible coordination efficiency and system performance.

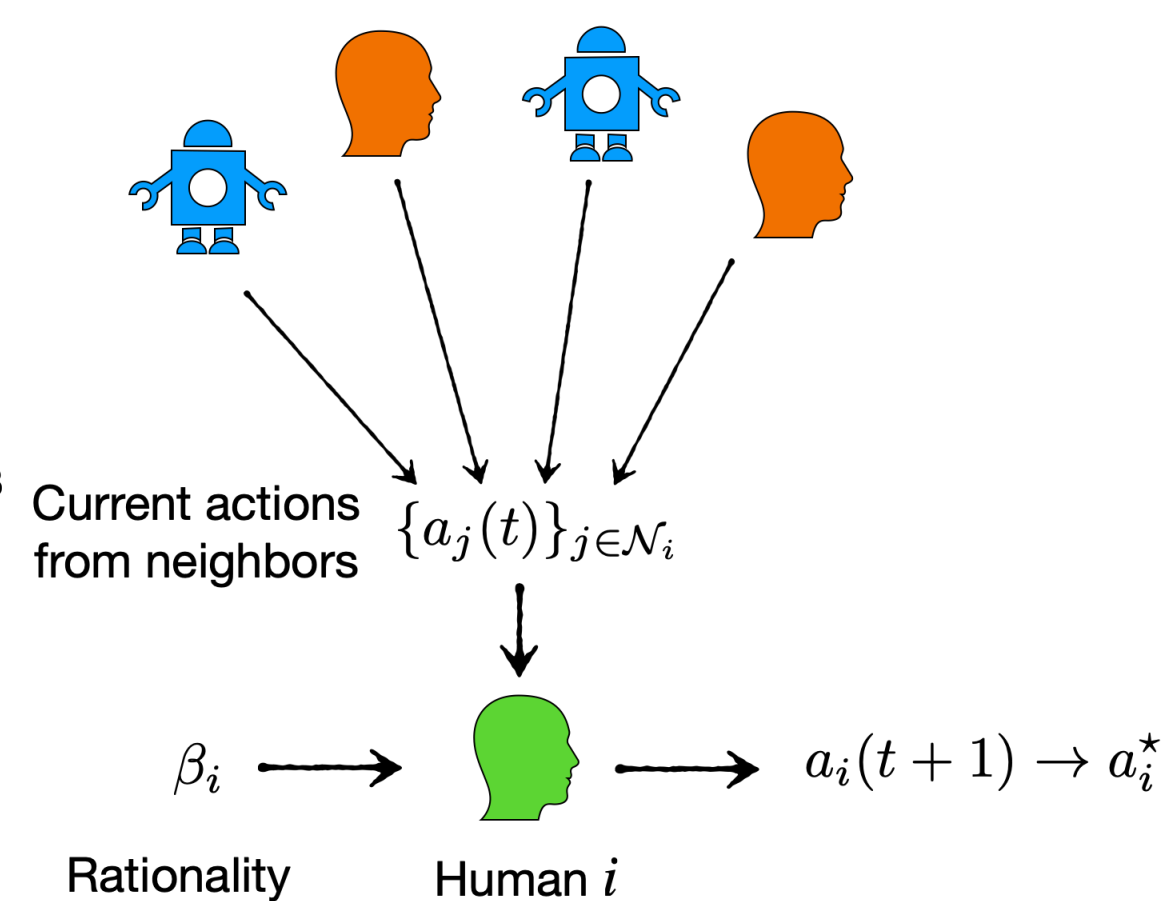
Modeling



Teaming



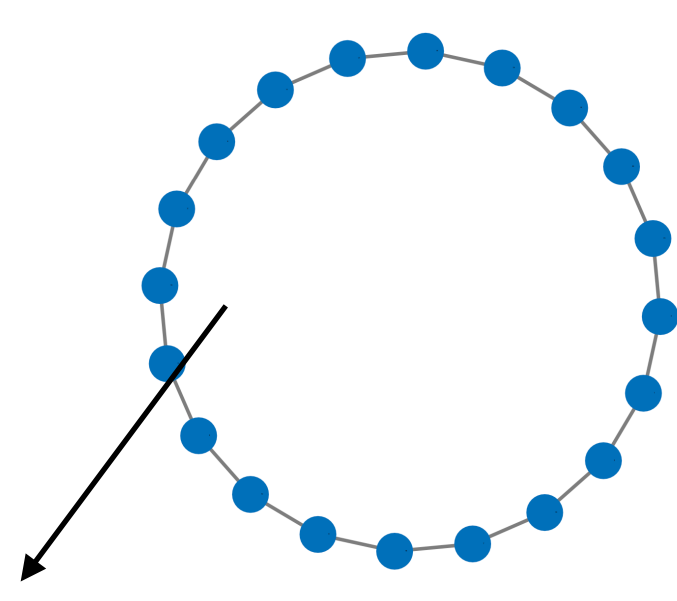
Learning



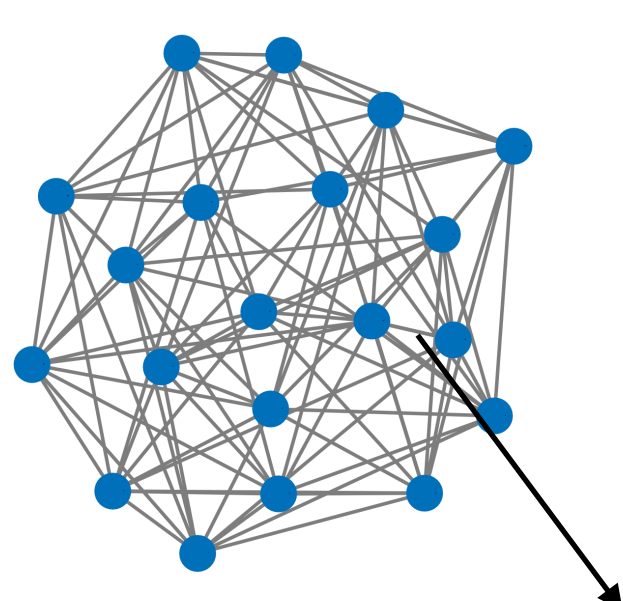
Our group has discovered a new fundamental principle:

Connectivity can compensate for irrational behavior

What does that mean?

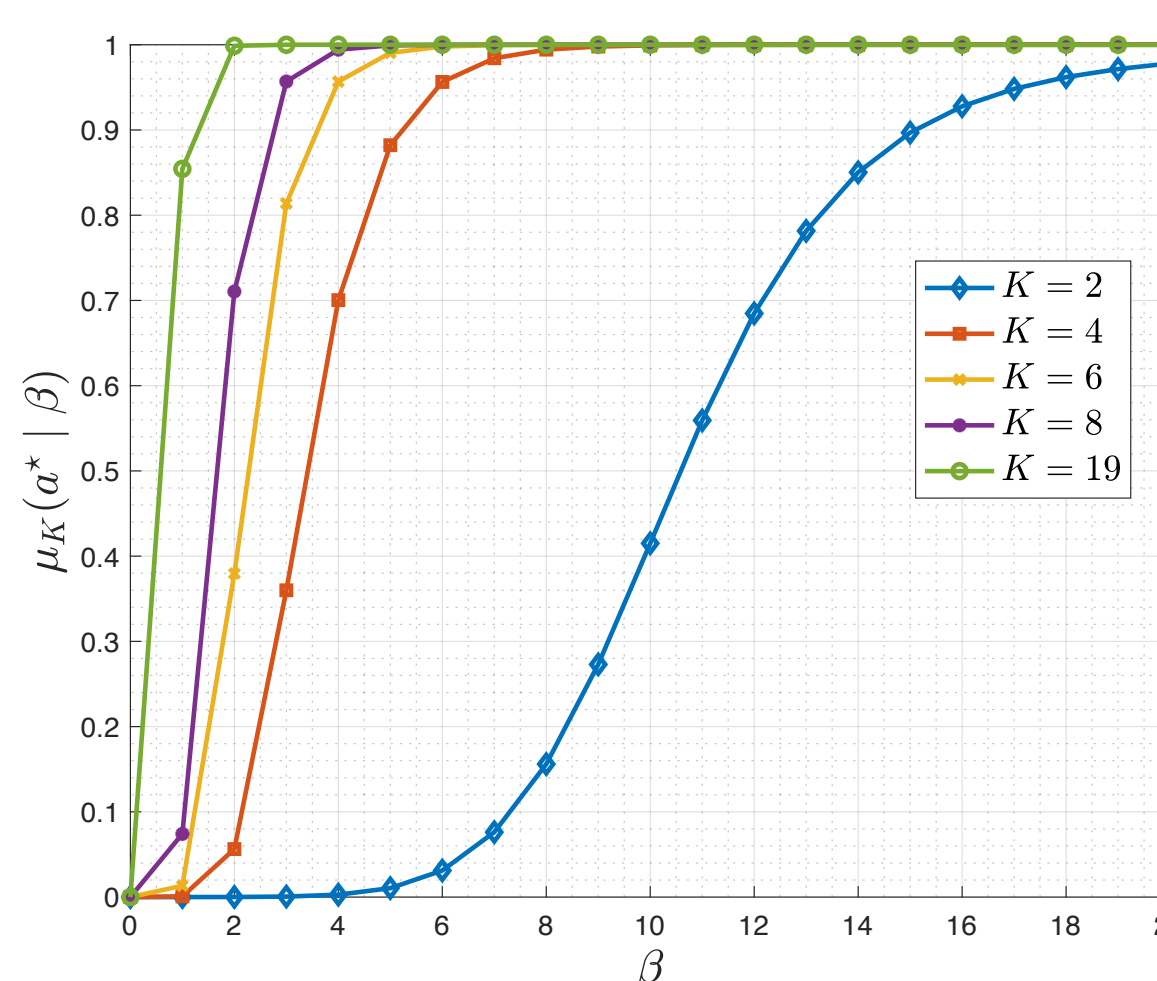


Agents need to be more rational

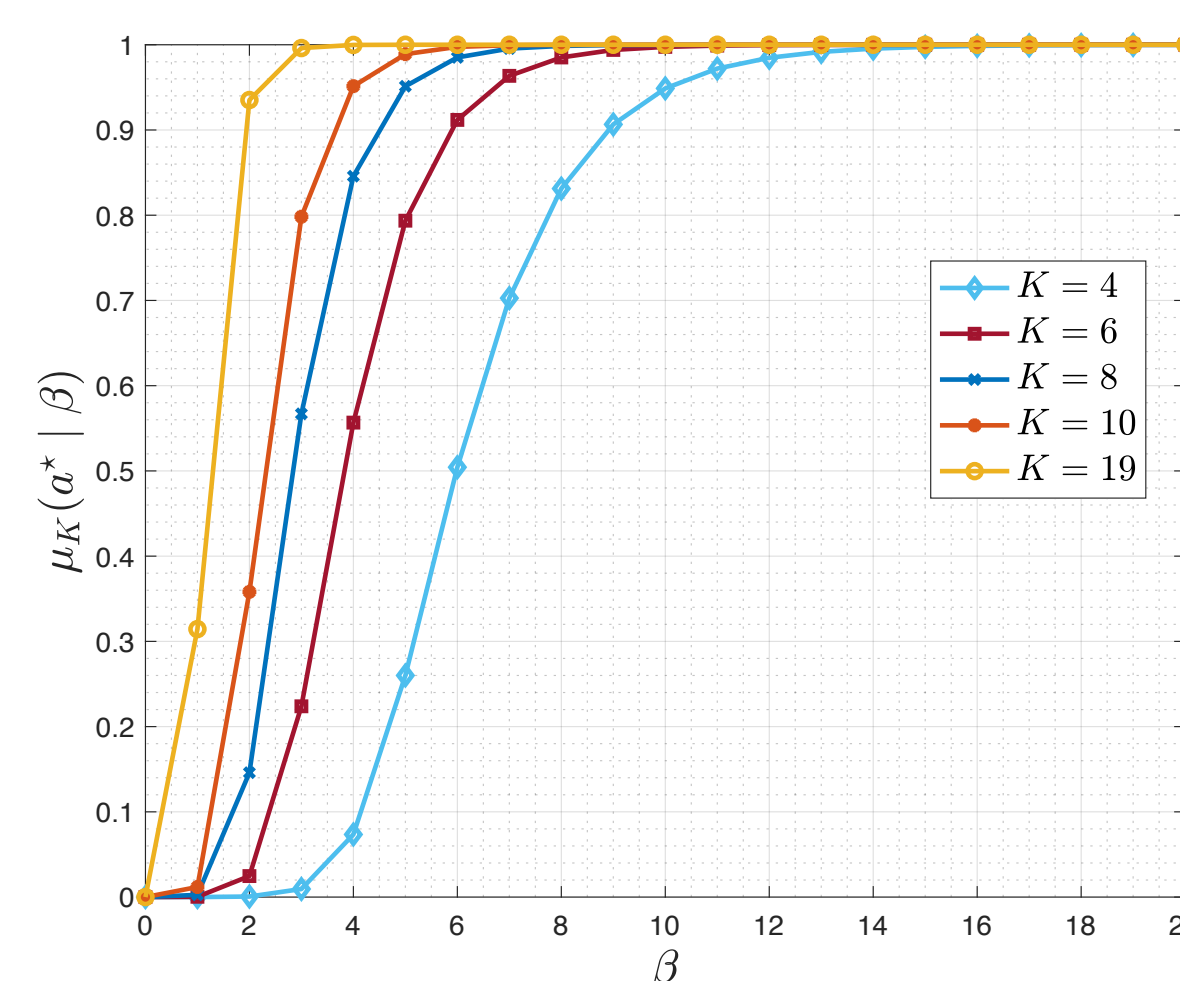


Agents can afford to be less rational

Simulations and Data:

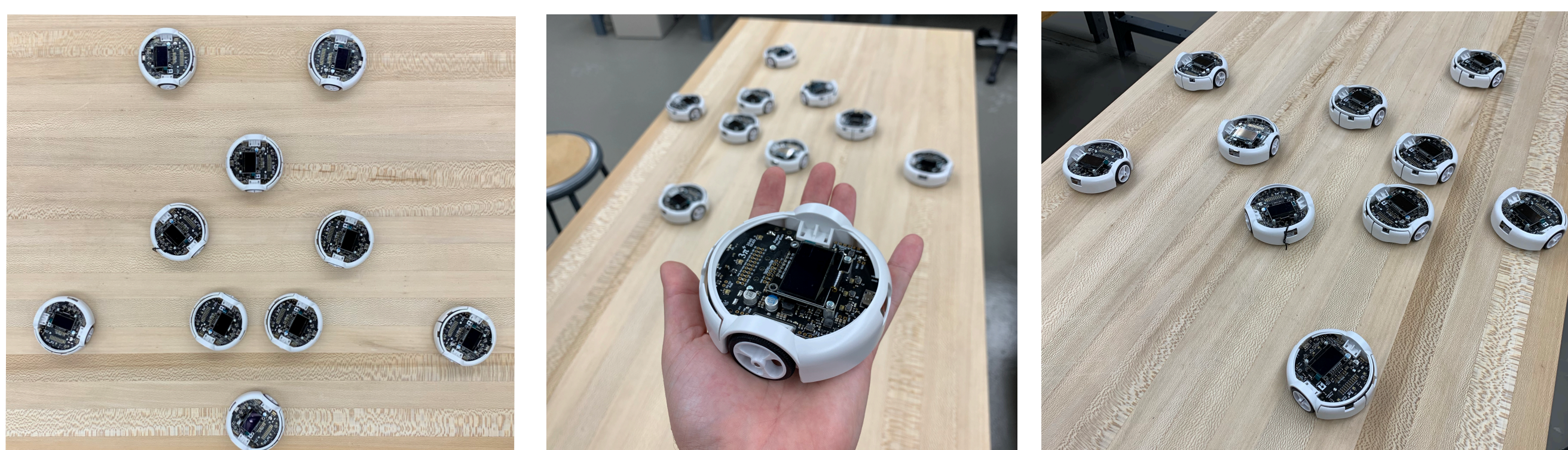


(a) $\theta = 5.1$



(b) $\theta = 3$

Next Steps: Testbed



Results from the FYAP:

- A. Published two conference papers
- B. One journal paper in preparation
- C. NSF CAREER proposal (submitted)
- D. Collaboration with the Psychology Department at FSU