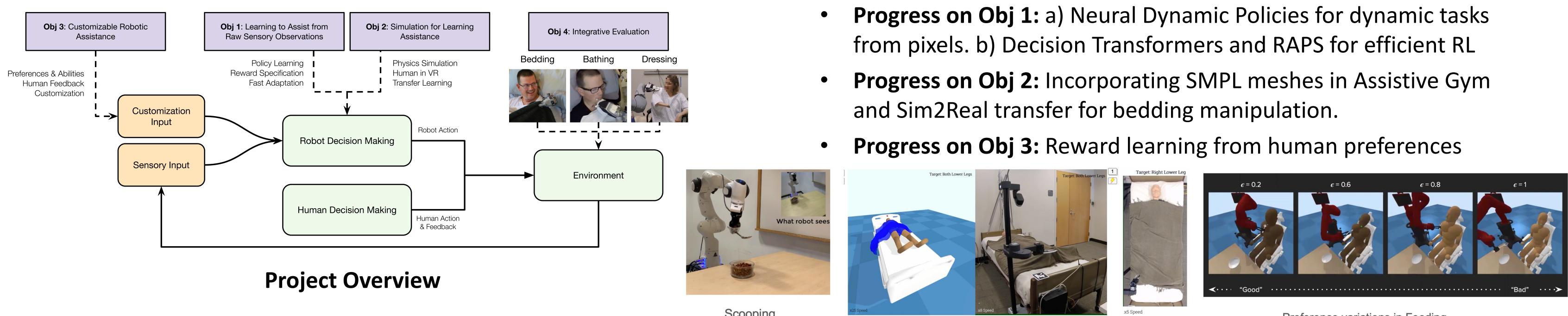
Collaborative Research: NRI: INT: Scalable, Customizable, Robot Learning with Humans

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Overview: Robotic assistance with activities of daily living could increase the independence of people with disabilities and improve quality of life. While progress has been made towards such robotic-assistance, current systems rely on simplifying assumptions limiting their applicability. This project seeks to make foundational progress on developing assistive robots.

Key challenges: Many activities of daily living require robots to manipulate fabric in coordination with people



Impact on society

Assistive robots (e.g. dressing and body bathing) for people with disabilities, which has the potential to help millions of people achieve greater independence and a higher quality of life

> 2022 NRI & FRR Principal Investigators' Meeting April 19-21, 2022

Scooping

Bedding Manipulation

- Impact on education
- Assistive Gym will be incorporated into the Pl's courses on Robotics and RL
- Students will interactively learn how robots can provide physical assistance to people with disabilities

Scientific impact: The results from this project will be opensourced and help toward making robots for human a reality

Preference variations in Feeding

Potential impact

Reduce financial challenges associated with professional caregivers, relieve the burden on informal caregivers, and empower older adults and people with disabilities to live more independently