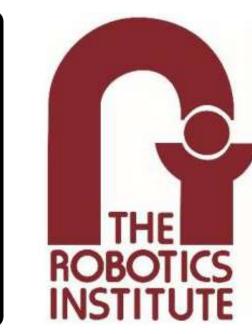


# Alfred: Autonomous Elderly Care Robot

Abhinav | Atharva | Praveen | Shaolin | Shivam Advisors: Prof Yonatan Bisk & Prof Zackory Erickson

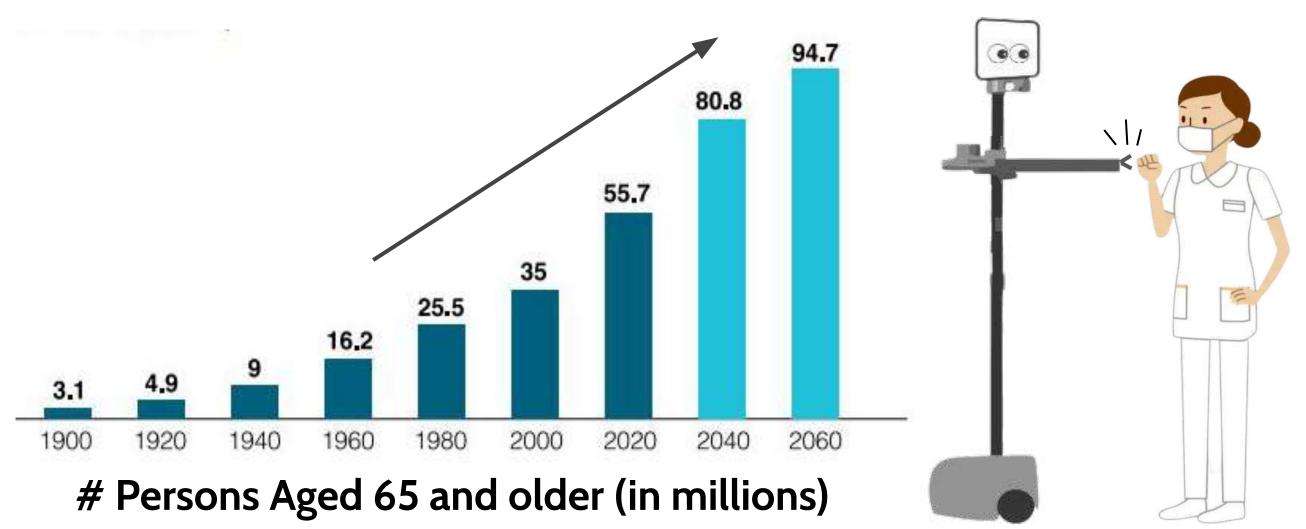




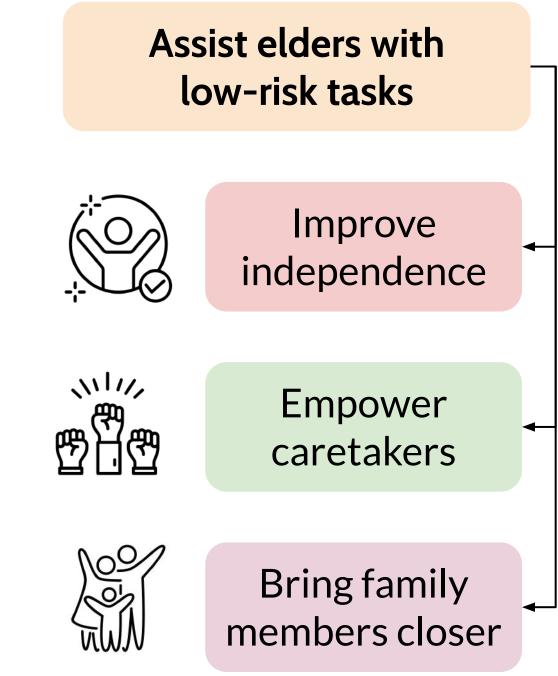
#### **Problem Statement**

Huge labour shortage in Assisted Living

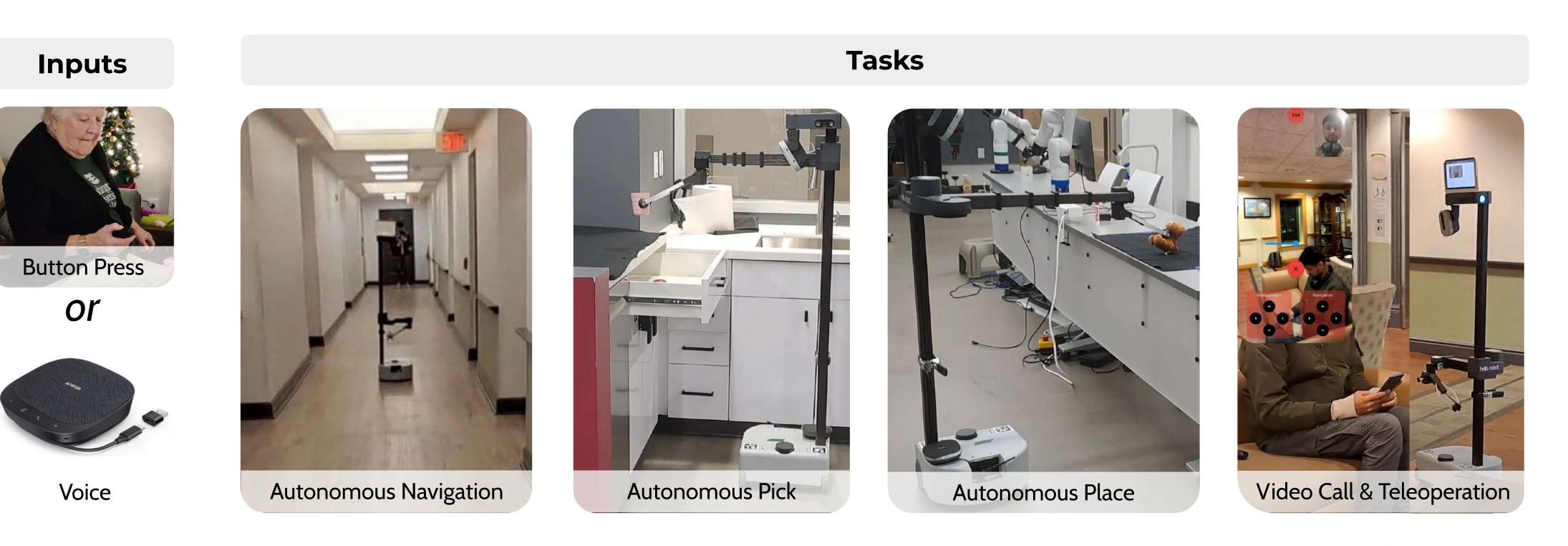
• Elderly are fastest growing population



• Build an automated solution that augments elderly caregiving.

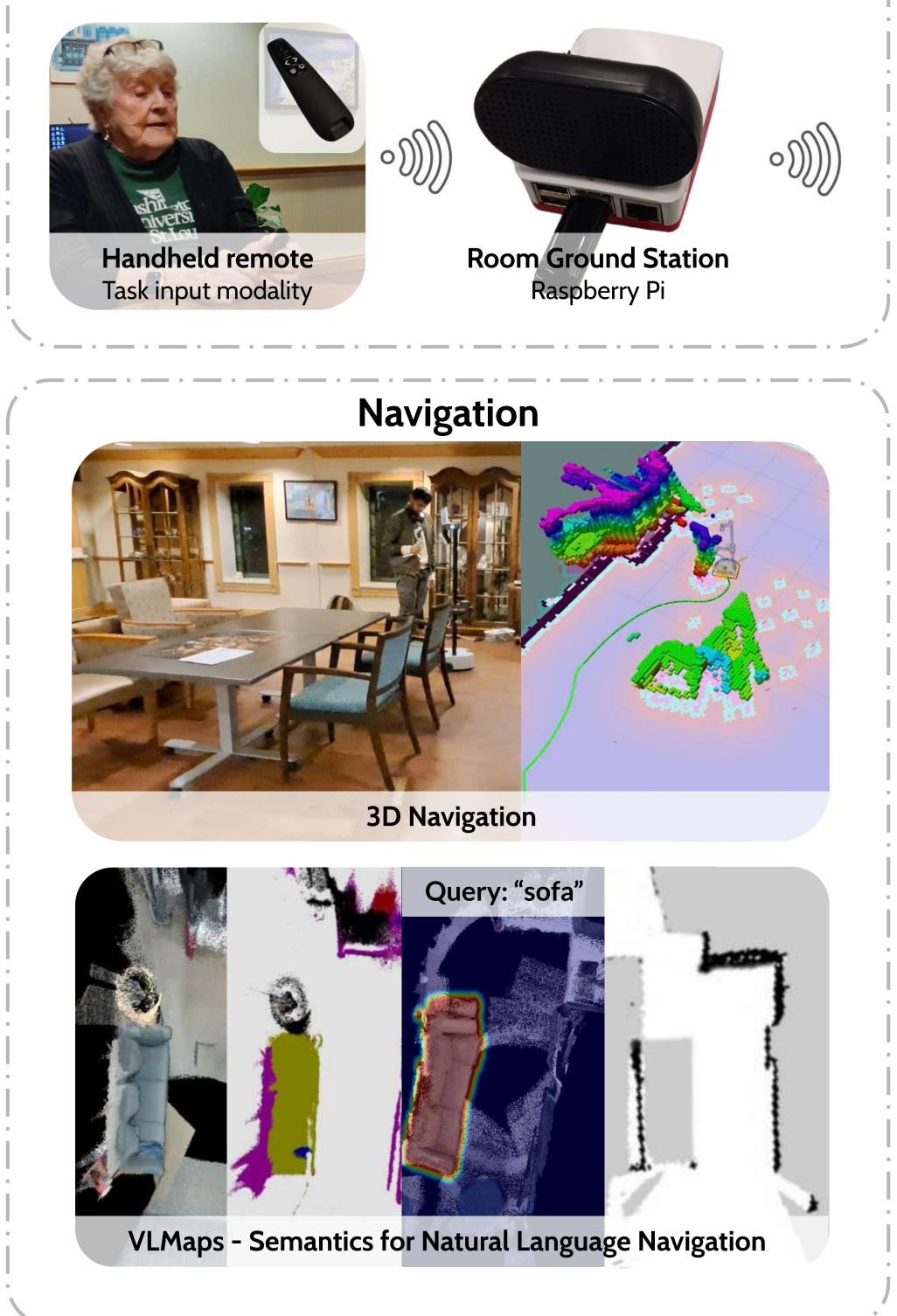


## **Use Case**



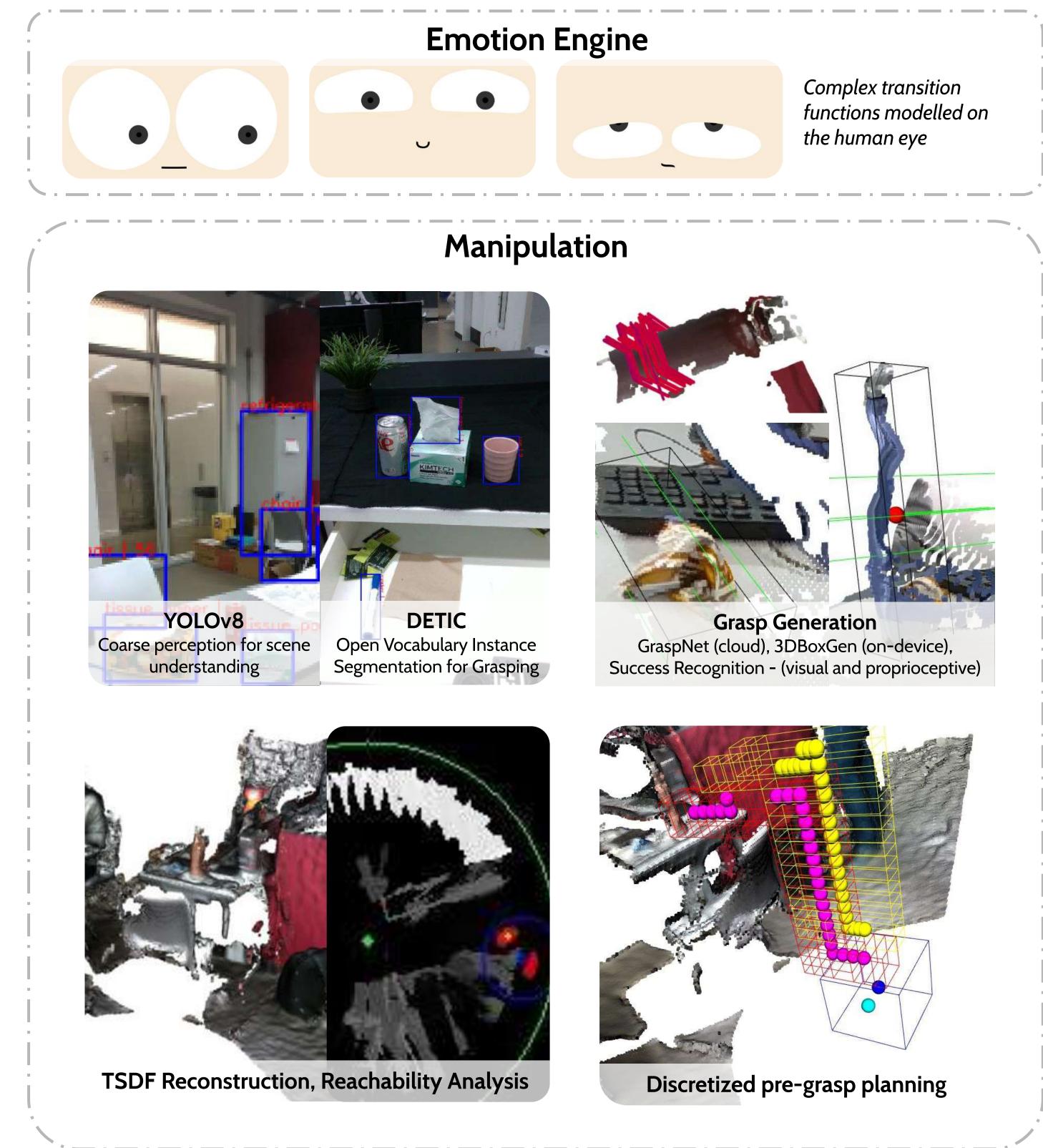
Once triggered, mix and match tasks!

## System Design



**Button Task Input** 





### **Results & Conclusion**

## **CMU Team Explores Future of Caregiving With Assistive Robot**

Carnegie Mellon University students recently gave residents of a senior living community a taste of robot-delivered ice cream while demonstrating the potential future of caregiving

Alfred to Vitalia North Olmsted, a senior living community outside Cleveland, Designed to assist the elderly with daily activities like fetching and delivering objects, Alfred consists of a rolling base not much larger than a robotic vacuum and a long pole-like body with an arm and gripper.

A team of graduate students in the Robotics Institute took a robot named

CMU team set up cups of ice cream. Residents approached Alfred, requested a flavor, and watched as the robot navigated to the appropriate cup and handed them the ice cream

"The residents were overwhelmingly excited about the robot," said Zackory Erickson, an assistant professor in the Robotics Institute and co-advisor of the students working on Alfred.

