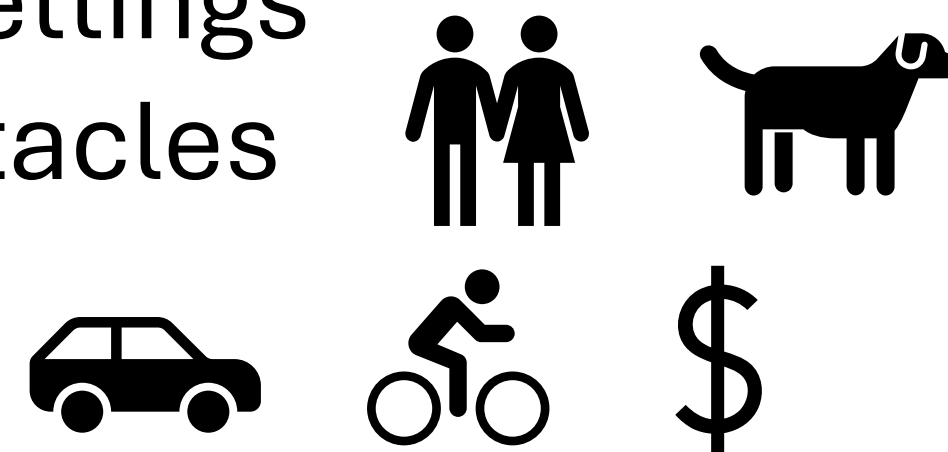


# Robot Object Detection, Classification, and Prediction for Dynamic Environments



## Problem

Robots in dynamic settings face many more obstacles than warehouse robots

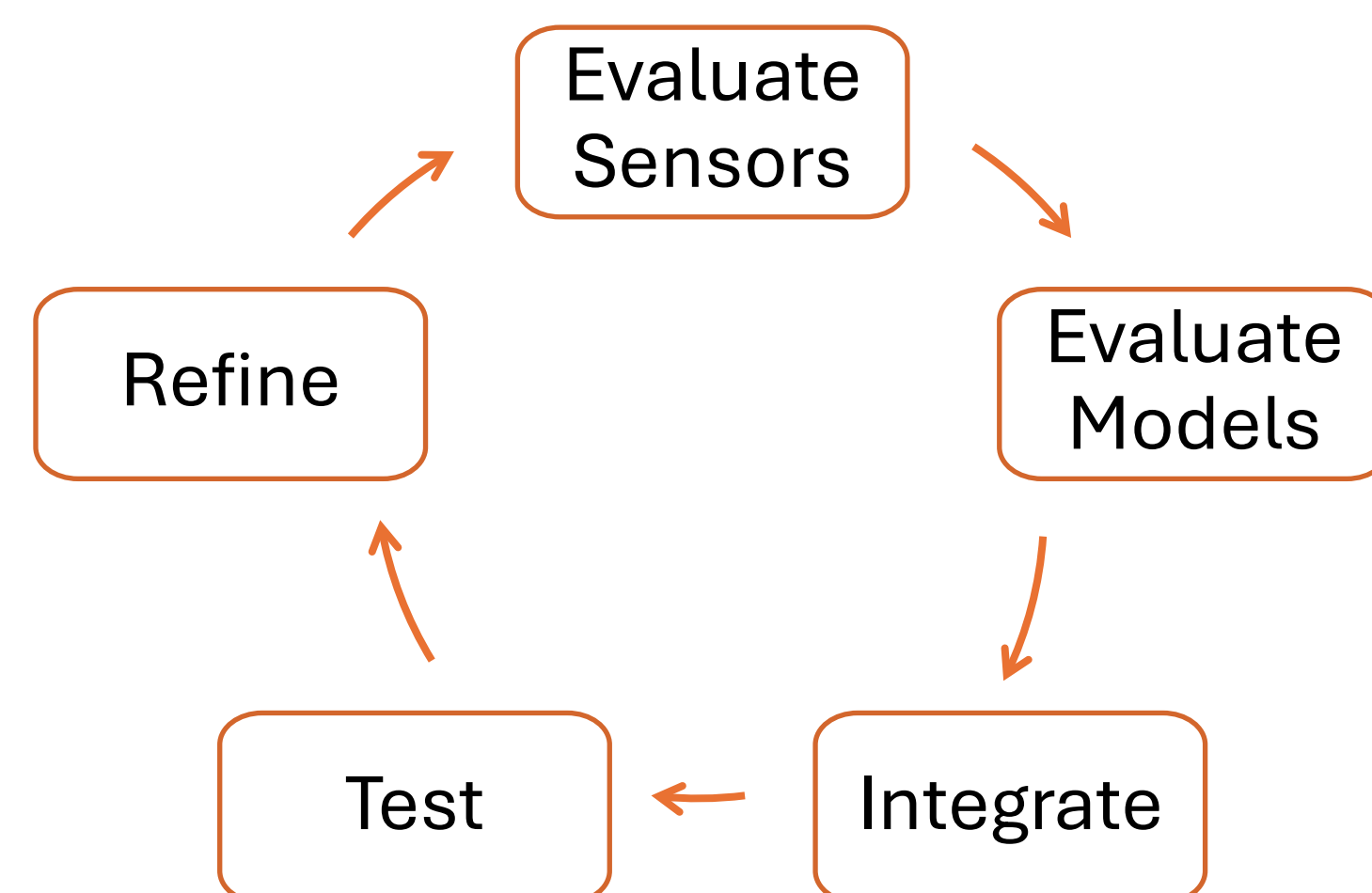


## Goal

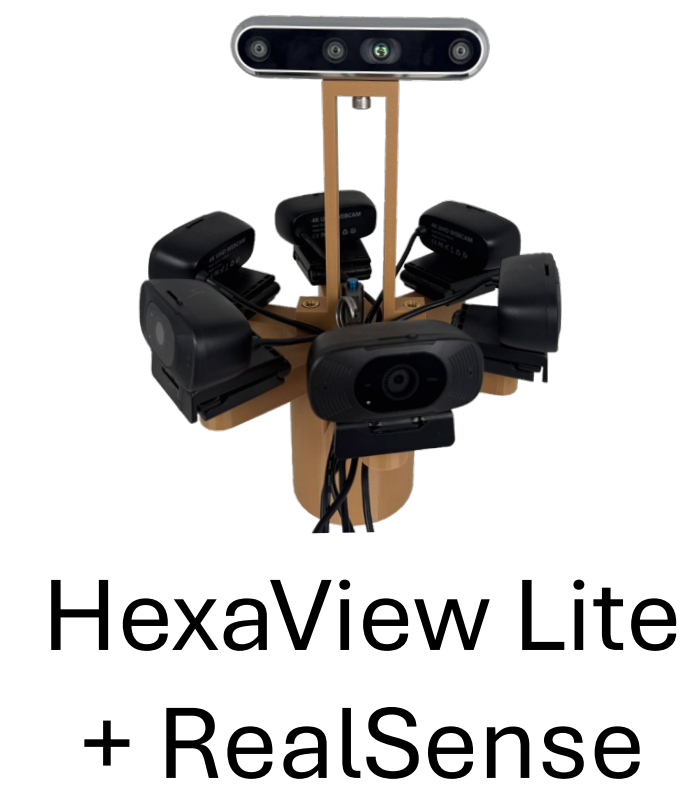
Create low-cost sensor and software configurations to detect, classify and predict the motion of entities in dynamic environments

## Approach

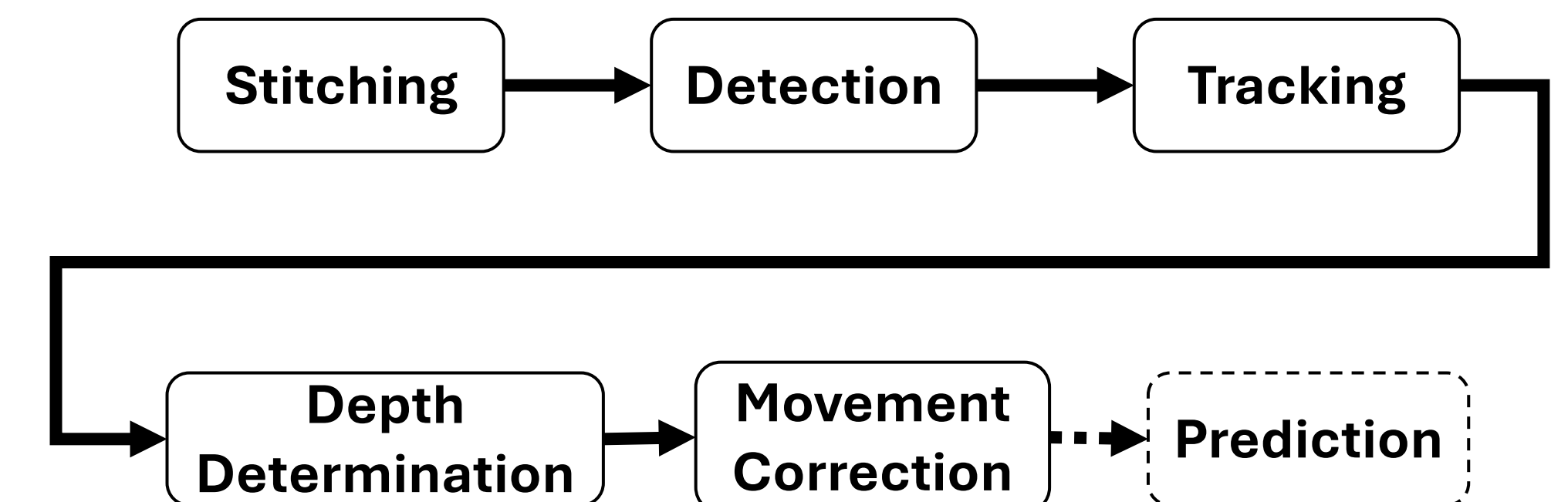
Use commercially available sensors, open-source computer vision models, and frequent testing



## Sensors Configurations



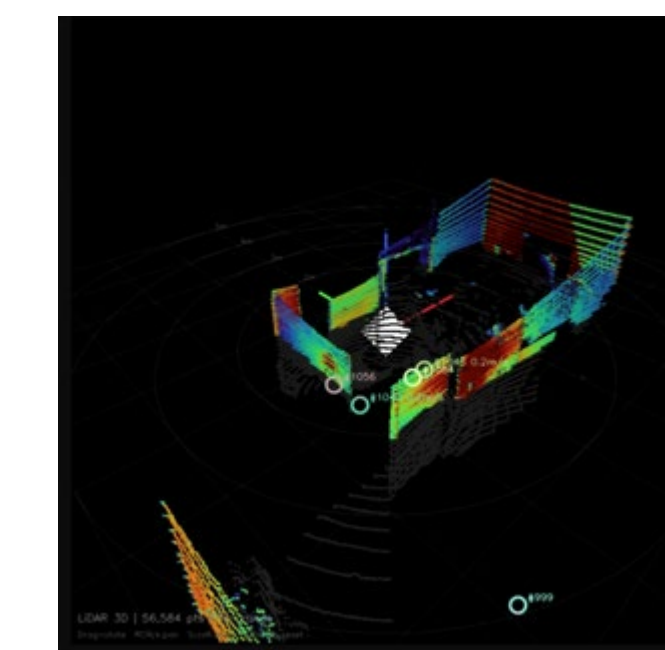
## Algorithm



## Testing



Camera Test



LiDAR Test



Tracking Test

## Liaison



Alex MacLean

## Advisor



Amon Millner

## Team



Hazel Sudzilouski



Mark Belanger



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