

Matching/Mapping

- Given a set of spherical images or video from a drone
- Build a map of the environment
- Provide navigation/alternate views
- Ricoh provides use of a Ricoh 360 Theta camera or quad rotor



Object Property Recognition

- Rather than full object identification determine aspects of objects:
 - Bottle vs box vs bag
 - Coke vs Pepsi (brand/logo)
 - Giant size vs Bite size
 - Estimate the number of pretzels in the bowl?



Ricoh provides some data

Semi-automatic Ground Truth Labeling

- Labeling truth is time consuming
- Can algorithms speed up labeling without impacting quality?
- Do better than MIT!
(labelme.csail.mit.edu)
- Ricoh can provide some data to label and gift cards to entice labelers

