



Progress Review 3

Team F



Bebop2 progress and challenges

- Retrieved GPS data.
- Tested accuracy of GPS data - within 3m.
- Fly Bebop2 using GPS waypoint navigation- through app.
- Able to construct tf tree - April tag ID0 is parent.
- Have checked the accuracy between camera frame and April tag0.
- Transform between April tag1 and April tag0 is not so good.
- Have to Fly Bebop2 using ROS/Linux commands.
- Have to stabilize April tag detection.



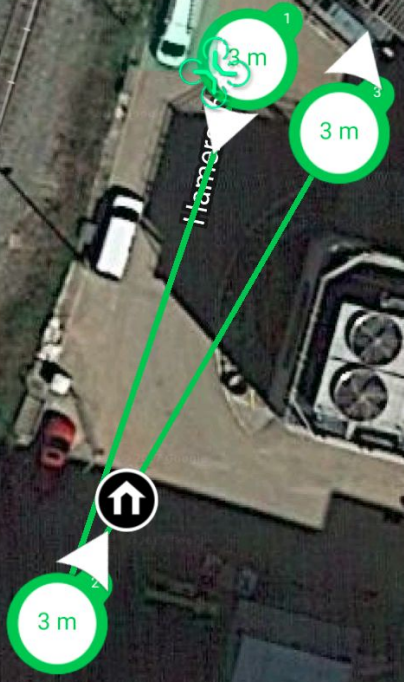
PR3



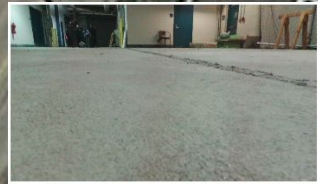
Boundary St

Hammer

FMS Building



Google



0 M/S

0 M

0 M

TAKE-OFF

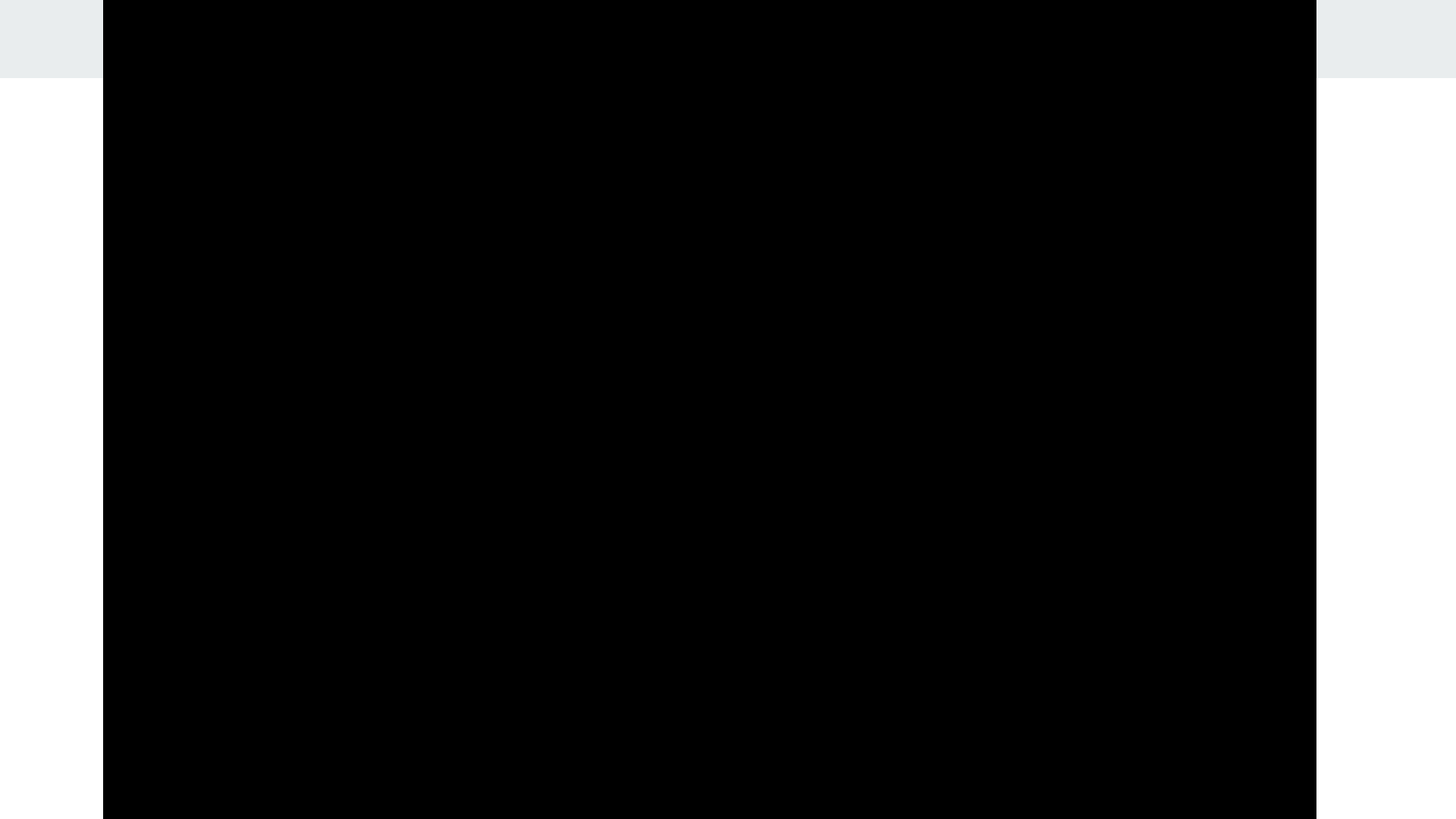
71 %

GPS



57 %

GPS





Husky progress and challenges

- Able to read GPS data.
- Obstacle detection using Velodyne height map.
- Tested the network range of router used to control Husky - 58 m in straight path.
- Control Husky through rviz interact option in remote PC.
- Able to read odometry and IMU data.



Test Drive Husky?



PR4 goals

- GPS waypoint navigation of Bebop2 - through ROS and SDK.
- Stabilize April tag detection
 - Moving filter
 - Robot Localization package.



Thank You!