Pointclouds size in several processing stages 6000 Number of points in reference pointcloud Number of points in reference pointcloud after filtering Number of keypoints in reference pointcloud Number of points in ambient pointcloud Number of points in ambient pointcloud after filtering Number of points in ambient pointcloud used in registration 5000 Number of keypoints in ambient pointcloud 4000 Pointcloud size 3000 2000 1000 20 60 80 100 Time of localization update (seconds from beginning of test)