## AMCL

- System for a mobol moving in 20.
- At implements the adoptive (KLD-sampling)
  Monte Could localization approach
- , loser scons, and transform messages. and outputs pose estimates.
- -filten according to the parameters

  Provided, if no parameters are set, the

  Initial fiter State will be a moderately

  Sized particle cloud contacted doors (0,0,0).

## \* Subscribed topic

# Scan > losa Scan

# Ef > To as form)

# map -> When the use\_map-lopic

# initialpose

> Mean and covariance with which

to one-mitialize the particle filter.

## \* Published topics

# am(1\_ pose

> Robot's estimated pose in the map, with Covariance

# Penticle cloud > The set of pose estimates being maintained by the # 46 > Publisher transform from odon to map. \* Services # global localization Initiale global localization , wherein all particles and dispensed orandomly through the free space inthe map. # onequest\_momotion\_update > Service to mandly perform update and publish updated Partido-# Set\_map > Service to manually set a new map and pose. \* Service Called # Static\_map somel calls this Service to oretoieve the map that is used for loser bosed localitation.

