

Own vessel position and encountering vessel position, orientation, and velocity

Navigation

map server

gps fake

ais fake

laser

Map

Own vessel Position

Encountering vessel
position, orientation, and velocity

Point cloud

Guidance

move_base

global planner

Global location and global goal

local planner

Goal location

mission planner

Velocity command

Control

velocity control

USV's thrusters command

gazebo

