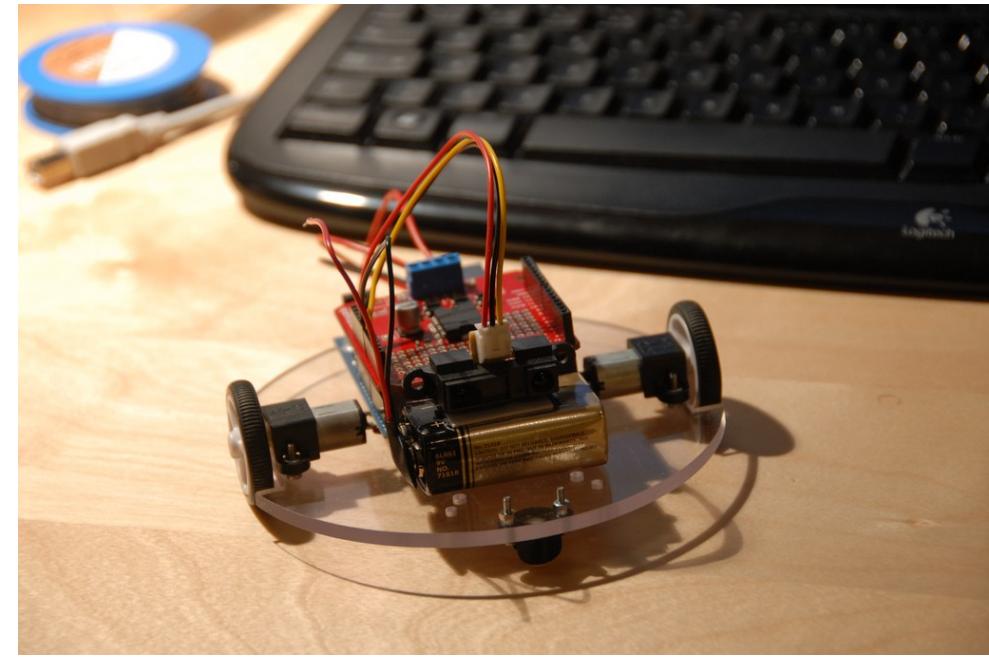
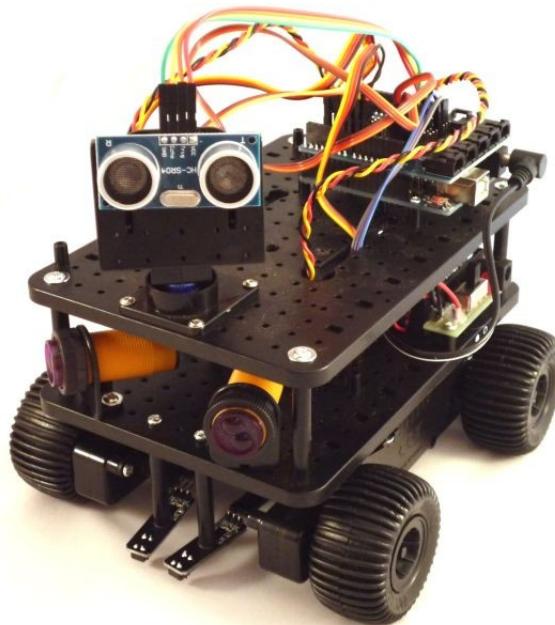


# Complex Low-Cost Robotics

Datenspuren 2015, Paul Petring  
<https://defendtheplanet.net>

# Non-Complex Low-Cost Robotics?



Simonwilmot

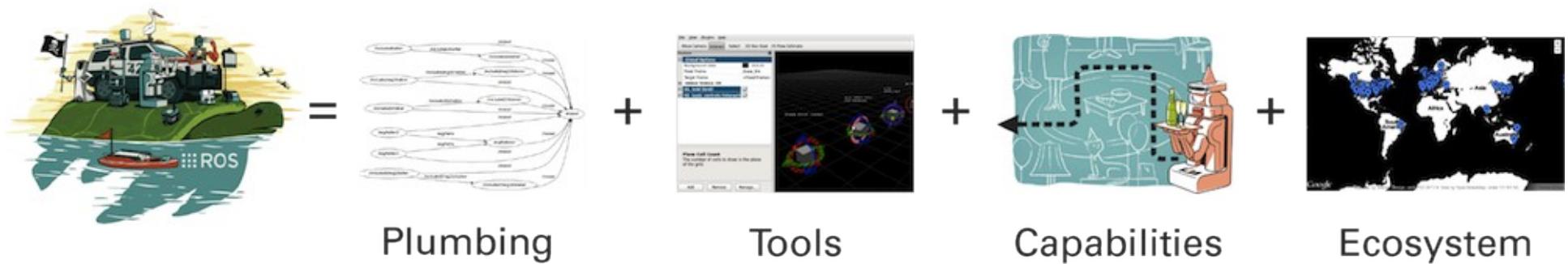
[https://upload.wikimedia.org/wikipedia/commons/a/a0/Basic\\_robot.jpg](https://upload.wikimedia.org/wikipedia/commons/a/a0/Basic_robot.jpg)

Johannes H. Jensen

<https://www.flickr.com/photos/johanneshjensen/4984305980>

# Robot Operating System

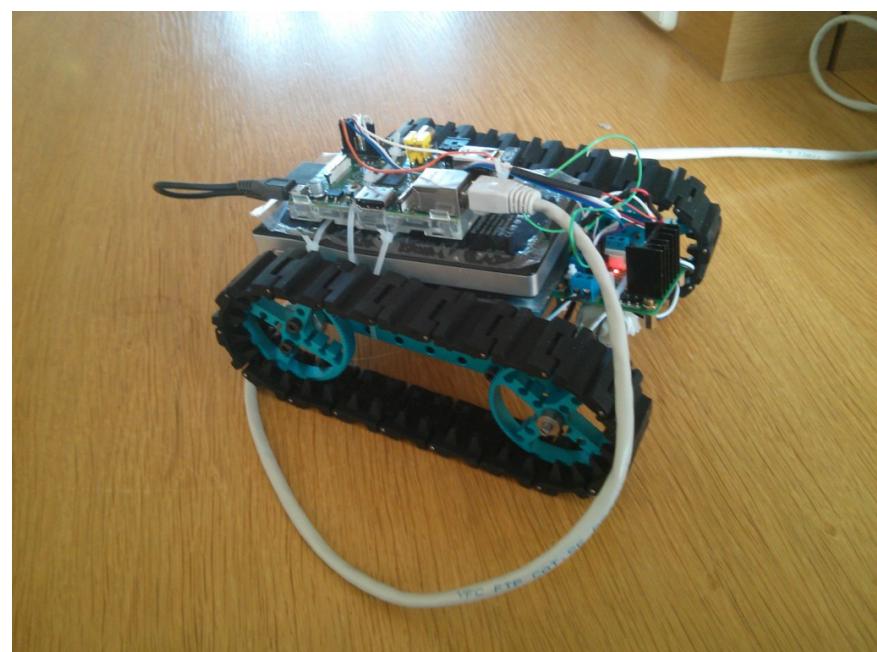
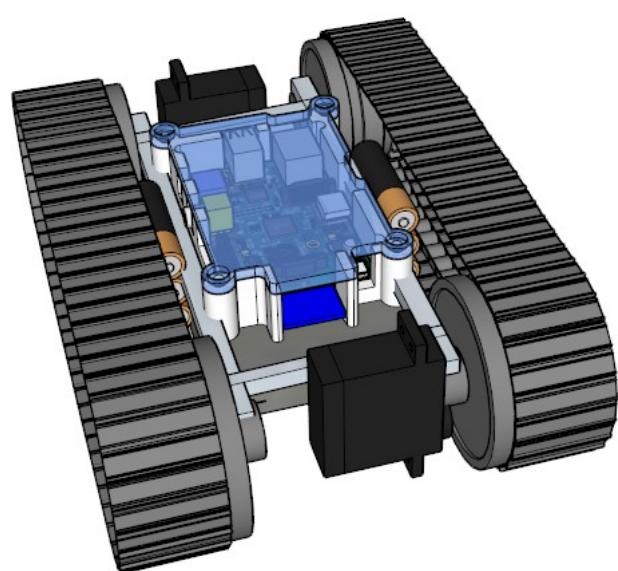
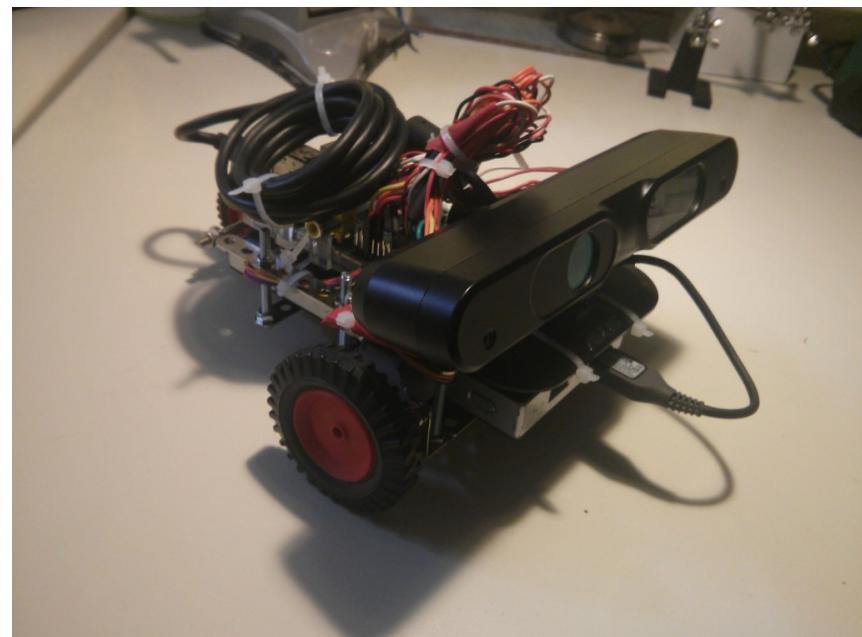
- Roboter Betriebssystem
- Framework, Setup, Treiber, Packetmanagement
- Willow Garage (Scott Hassan)



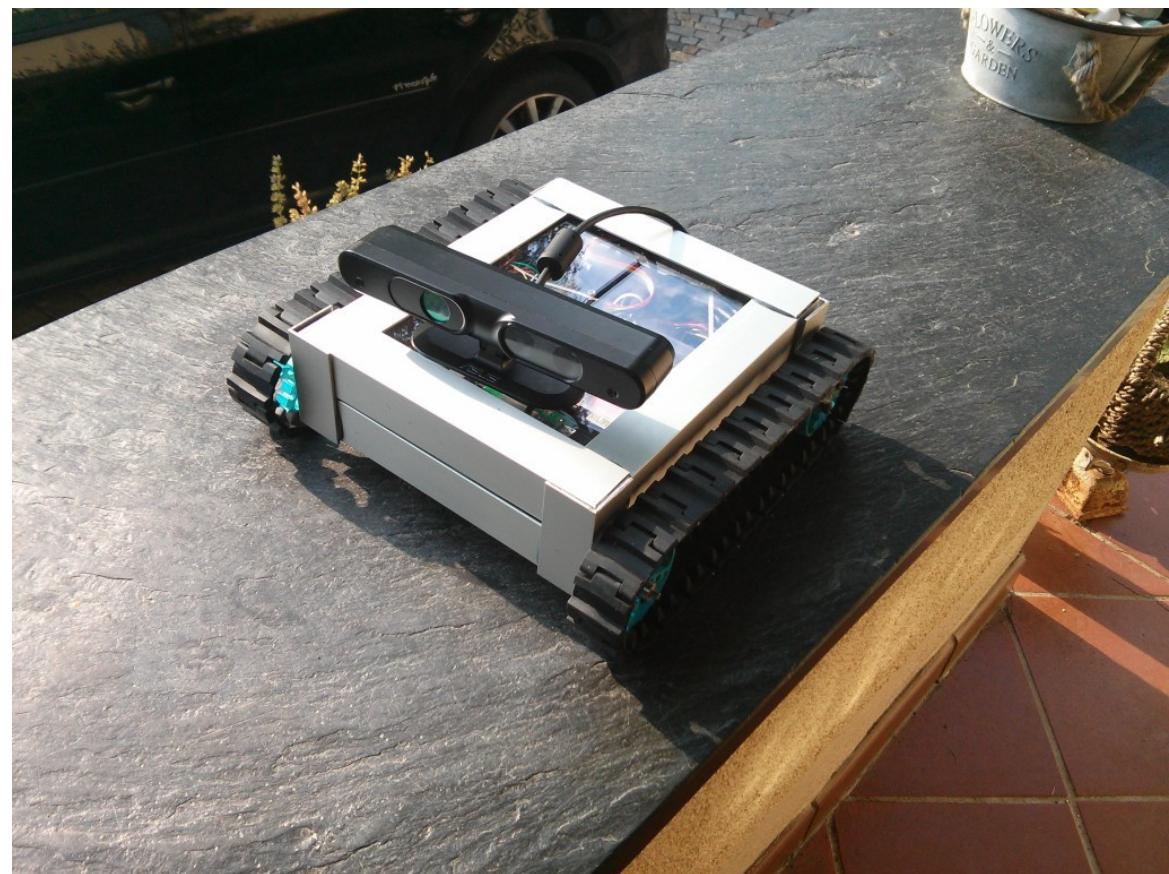
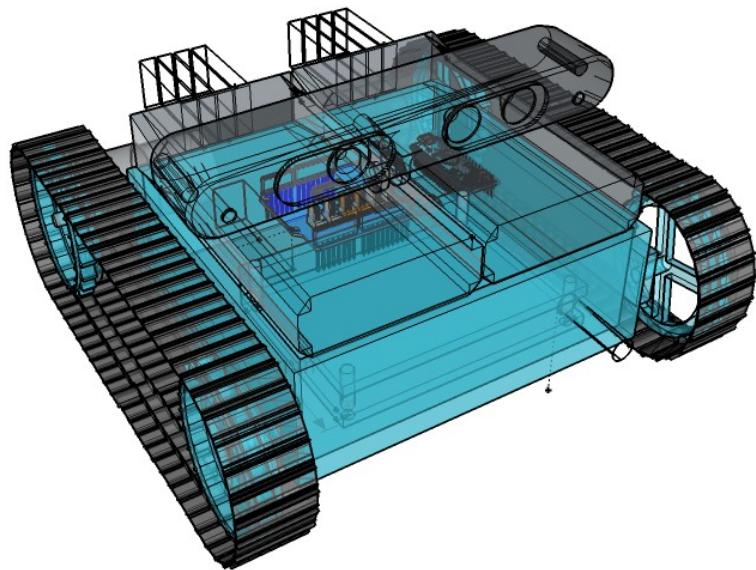
							



# Low-Cost-Roboter

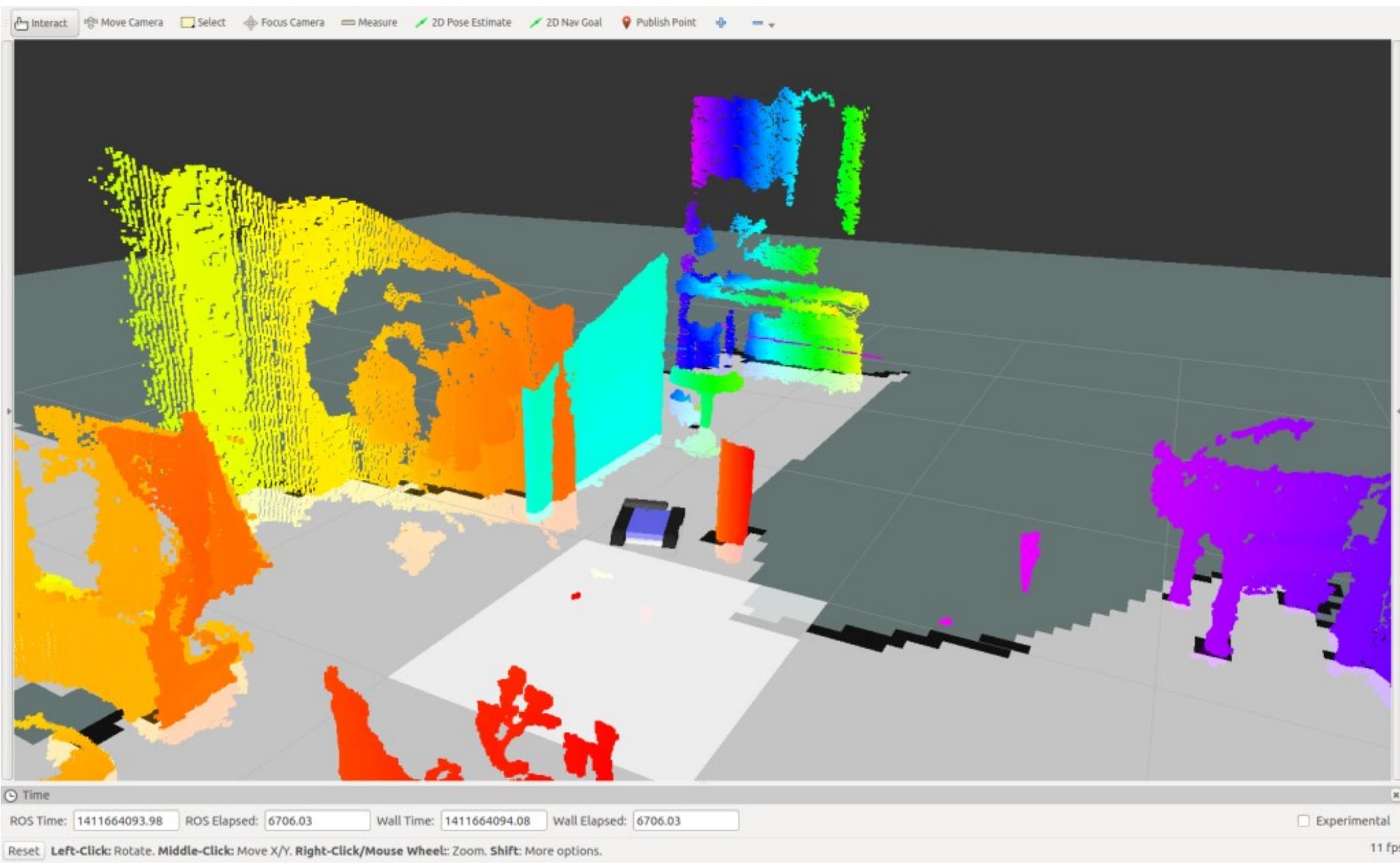


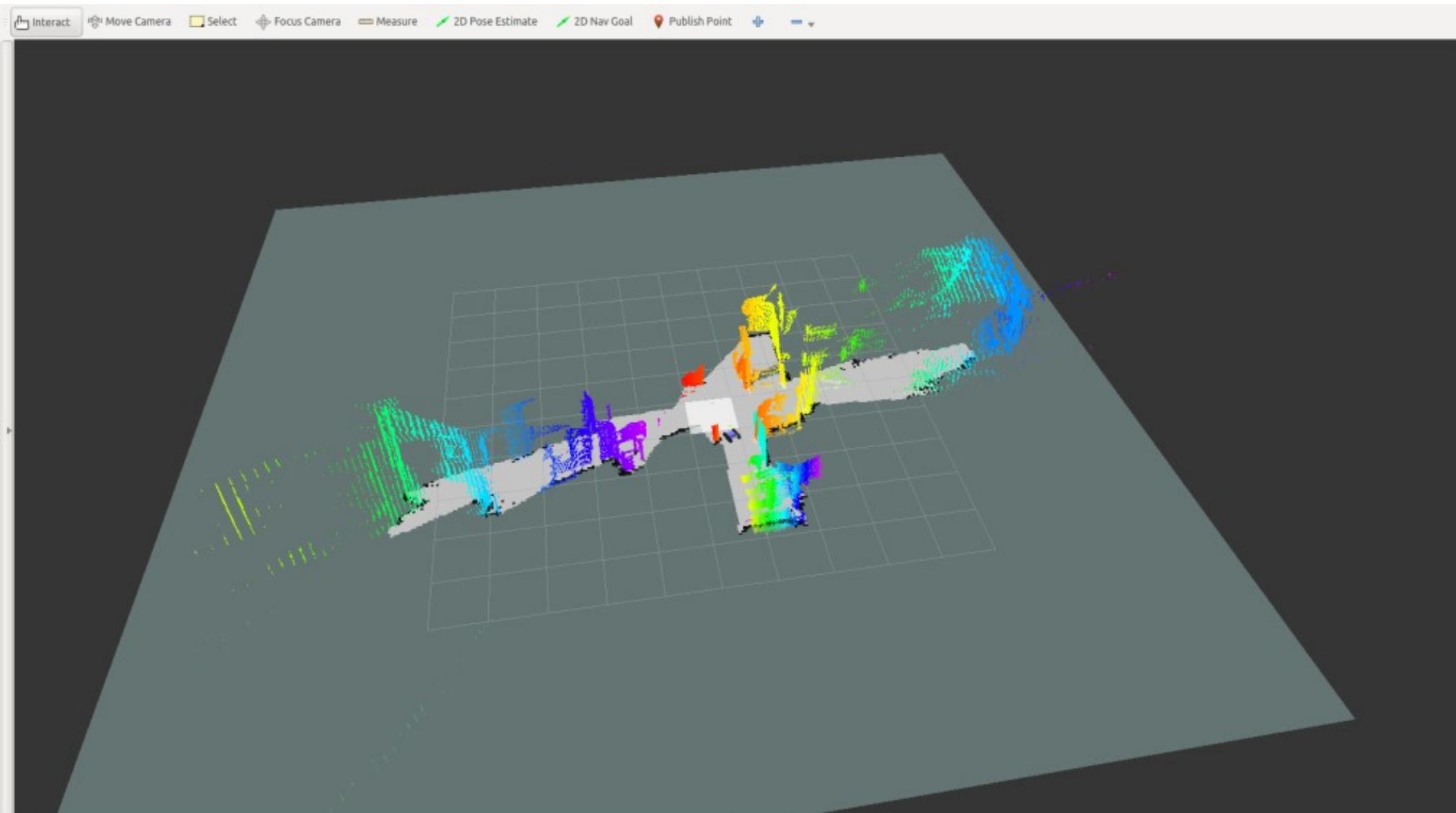
# aMoSeRo



# aMoSeRo

- Bestehend aus:
  - Xtion, CubiTruck, IMU, GPS
  - 2 Arduinos, 2 Motoren, Motortreiber
  - Gehäuse aus Aluminium und Plexiglas
  - Akkupack sowie vielen Kabeln
- ROS Indigo/Hydro kompatibel
  - potentiell autonom programmierbar
  - als Drohne für SLAM, 3D-Daten, Planning
- Unter 500€





Time

ROS Time: 1411664039.13 ROS Elapsed: 6651.18 Wall Time: 1411664039.20 Wall Elapsed: 6651.18

Experimental

Reset Left-Click: Rotate. Middle-Click: Move X/Y. Right-Click/Mouse Wheel: Zoom. Shift: More options.

16

# Chaos Communication Camp







# (Bilder)Quellen:

- <http://wiki.ros.org/Robots>
- <https://github.com/honky/ProjectGuenther>
- <http://www.ros.org/about-ros/>
- <https://defendtheplanet.net/wp-content/uploads/2015/03/amosero.pdf>
- <https://www.flickr.com/photos/johanneshjensen/4984305980>
- [https://commons.wikimedia.org/wiki/File:Basic\\_robot.jpg](https://commons.wikimedia.org/wiki/File:Basic_robot.jpg)
- <http://www.turtlebot.com/>
- <https://www.willowgarage.com/pages/pr2/overview>

# Kontakt

<https://defendtheplanet.net>

- [paul@defendtheplanet.net](mailto:paul@defendtheplanet.net)

6FBB 379A 1720 7202 25D3

E956 CC5B F508 CD48 9DCF

- [Github.com/PaulPetrin](https://Github.com/PaulPetrin)