Using MATLAB and Simulink with ROS

MathWorks Robotics Team
MathWorks Does Robotics
Robotics System Toolbox (since 2015)

MATLAB

Simulink

Robot hardware

Simulator

ROS

C++ Code Generation & Auto Deployment

Generated ROS node

Embedded targets
Co-Simulation with ROS
Traffic Sign Recognition with Collision Avoidance

Use external mode to tune parameters on hardware, visualize sensor data and deployed controller states.
System Level Design with Simulink

Easily integrate your existing MATLAB/Simulink code with ROS
What’s Next?

- ROS 2.0 Integration
  - If you are interested in using ROS 2.0 with MathWorks tools, we’d love to hear from you!

Questions? Talk To Us!

www.mathworks.com/ros