

**Hochschule Bonn-Rhein-Sieg**University of Applied Sciences



### Introduction to ROS

#### **Foundation Course**

August 20, 2019

Hassan Umari

- 1. What is ROS?
- 1.1 What ROS is
- 1.2 What ROS is NOT





- 1. What is ROS?
- 1.1 What ROS is
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### What ROS is

#### Robot Operating System

- Short for: Robot Operating System.
- A collection of libraries and tools.
- It helps software developers create robot applications.

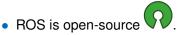




#### What ROS is

#### Robot Operating System

- A way to standardize writing software for robots.
- It enhances code reusability



- It is a meta-operating system.
- ROS can be installed on Ubuntu and Debian (so it's currently supported on Linux only).











- 1. What is ROS?
- 1.1 What ROS is
- 1.2 What ROS is NOT





#### What ROS is NOT

Robot Operating System

- It is NOT a programming language.
- It is NOT an integrated development environment (IDE).
- It is NOT a stand-alone operating system



- What is ROS?
- 1.1 What ROS is
- 1.2 What ROS is NOT







Software Applications

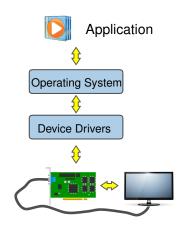




Different hardware

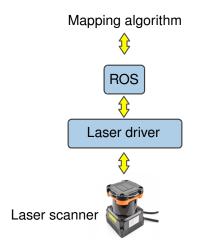






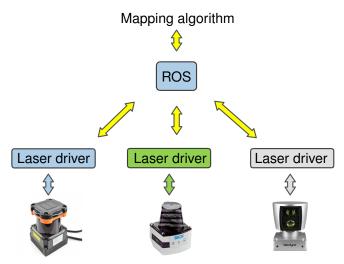








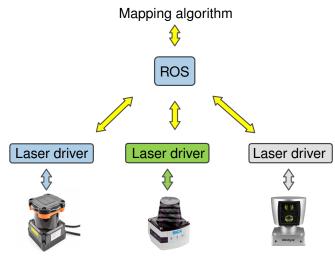








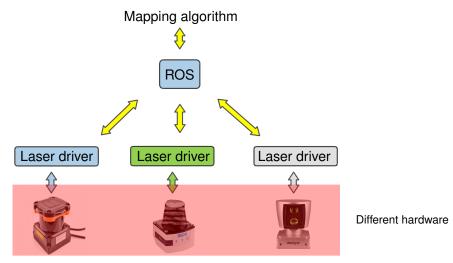




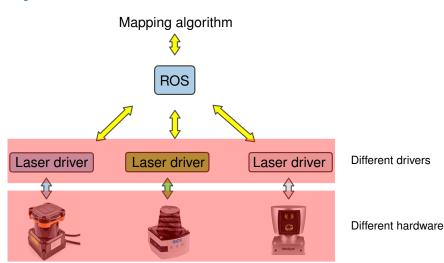








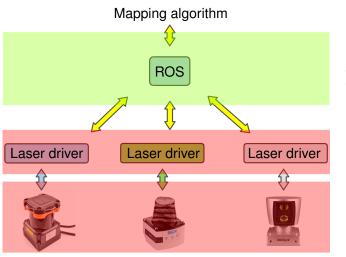












Data received in the same message format

Different drivers

Different hardware





