

ROS-Industrial Community Meeting

June 23, 2020



Welcome

- Agenda

- 9:00 – Welcome
- 9:05 – ROS-I Americas Update - M. Robinson & Levi Armstrong, SwRI
- 9:20 – ROS-I Asia-Pacific Update - Erik Unemyr, ROS-I AP
- 9:40 – ROS-I EU Update - Christoph Hellman Santos, Fraunhofer IPA
- 9:55 - Proposing a Cartesian trajectory interface for ROS - Felix Exner, Research Scientist, FZI Research Center
- 10:10 – Securing Robots for the long term - Adi Singh, Product Manager - Robotics at Canonical
- 10:35 - ROS2 migration and next-generation ROS features - Henning Kayser - Robotician, PickNik



Vision Development for ROS-I High Level/Global

High Level
Strategic
Goals

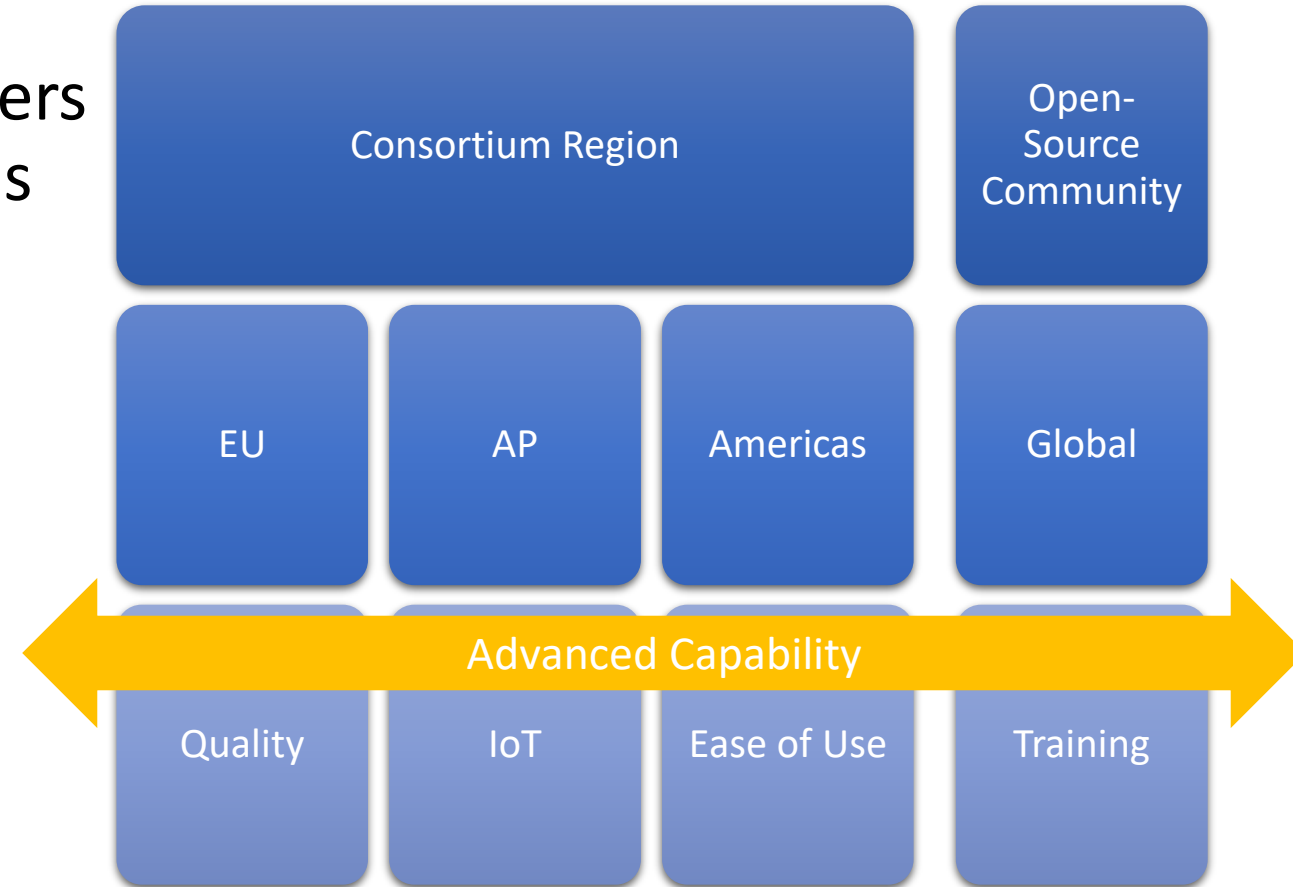
Quality, Improved User Experience, Novel Intelligent Capability

Lower Level
Focus
Areas/Thrusts



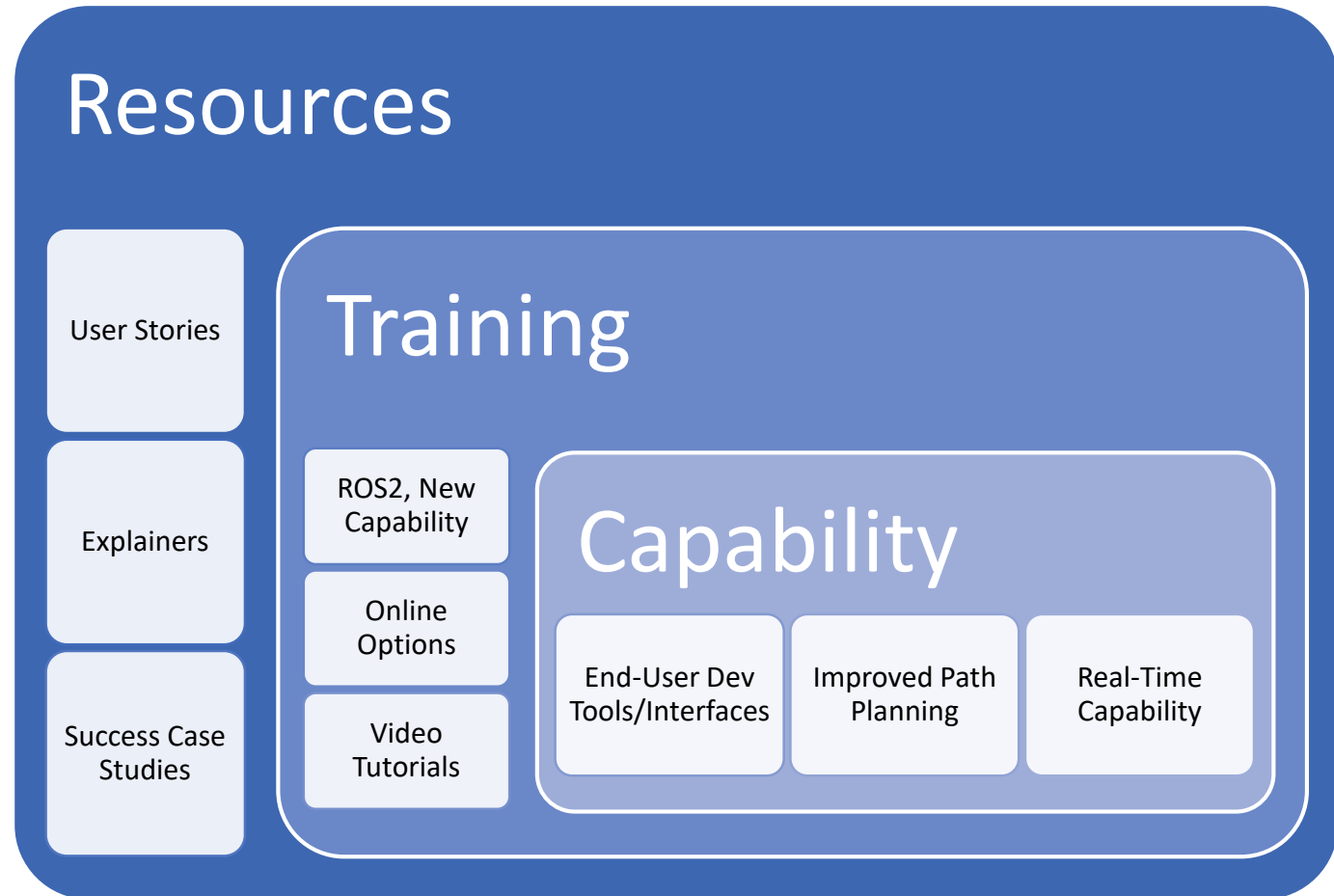
Region Focus

- Each region has unique stakeholders and regional funding organizations
- Understand these relationships
- Leverage dollars where they are
- Ensure no duplication of efforts
- All contribute to advancing capability
 - Feed training
 - Leverage Community



Nested Roadmap

- Decision makers see potential but need resources
- Technical capability is continually being developed and released
 - Driven by complimenting funding organizations
- Training emerges to support capability and address ecosystem changes
- As capability and training move forward communicate the successes
- Improved communication tools to enable a more effective feedback loop to synch all ROS-I Consortia & external partners
 - ROSin, ARM Institute, NIST, AFRL, etc



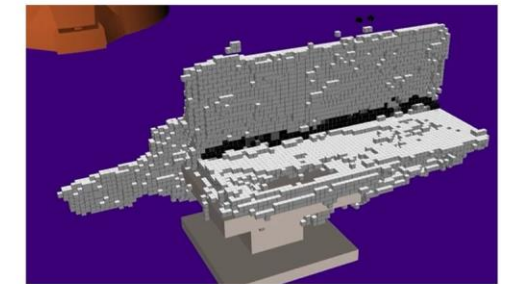
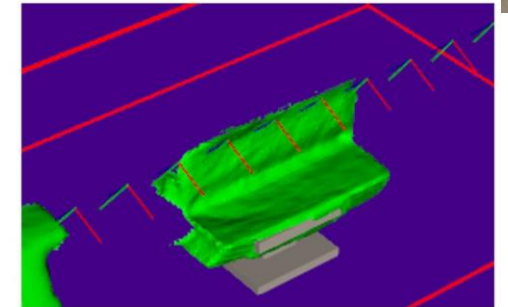
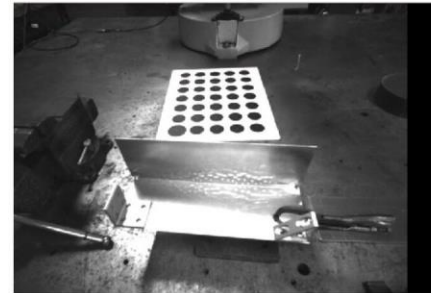
Events – Americas/Global

- First online training! – July 21-23 – Hosted via AWS EC2 instance. Will focus on Basic ROS2 and intro into path planning – between MoveIt and MoveIt2
 - Registration opening soon
- World ROS-I Day – July 7th - <https://rosindustrial.org/events/2020/7/6/world-ros-i-day-2020>
- RIA Information Webinar – July 13, 2020 – Introduction to ROS, ROS-Industrial, and the purpose and goals of the Consortium and how the regional relationships work
 - <https://www.robotics.org/webinar-detail.cfm/webinars/ros-industrial-an-open-source-approach-to-revolutionizing-industrial-automation/id/114>
- AWS Cloud Robotics Summit – August 18th & 19th – Levi Armstrong will be presenting “The hardening of ROS for industrial robotics applications: Key technology & impact” on August 19th



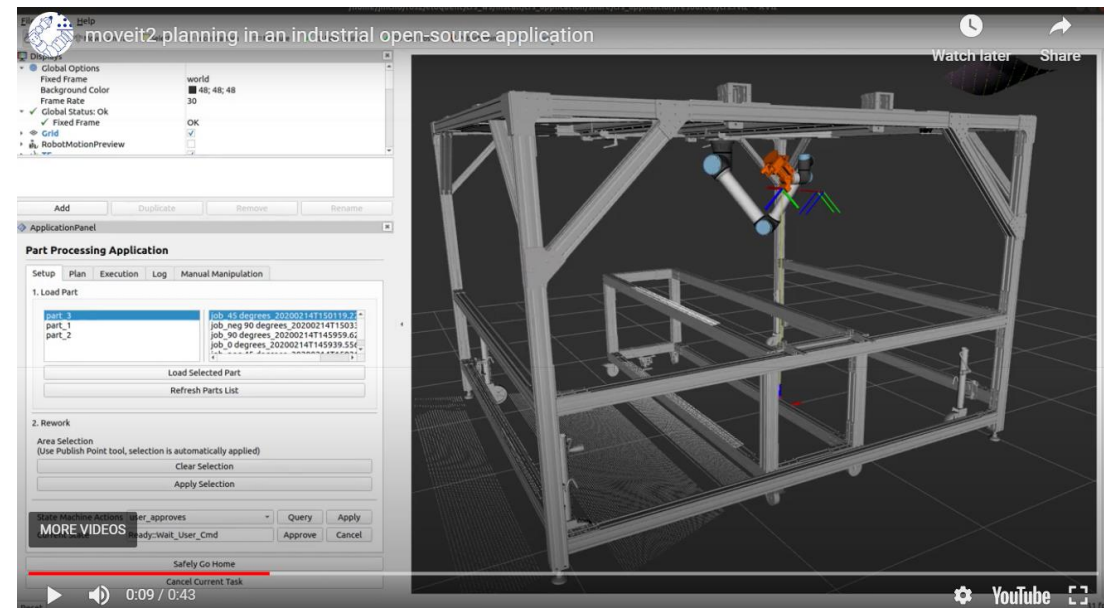
News on Capabilities

- Hybrid Perception Systems for Process Feature Detection
 - Blog Post:
<https://rosindustrial.org/news/2020/6/11/hybrid-perception-systems-for-process-feature-detection>
 - Approach leveraging machine learning on 2D images over-layed on 3D data to drive segmentation for process feature classification



News of Capabilities

- Using MoveIt2 on a Industrial Open-Source Application
 - Blog Post: <https://rosindustrial.org/news/2020/4/29/using-moveit2-on-a-industrial-open-source-application>
 - MoveIt2 has made significant progress
 - Example implementation as a proof of concept
 - ROSin announced MoveIt2 project



Technical Update

