# Ontologies for Robots

Workshop @ European Robotics Forum

23rd March 2016, Ljubljana, Slovenia

Jacek Malec, Lund University

# Motivation

There is *intensive research and development* activity in providing and making use of semantically meaningful information in robotic systems.

In particular, besides the widespread use of semantic technology by academia, there is a growing interest in it, in the context of *possible or actual industrial applications*.

We intend to summarize the *current state* of (European) robotic ontology ecosystem, find out commonalities, agree upon ways of result exchange and discuss *possible business models* for this kind of "product" or "service".

# Agenda

- Academic research 1 (Michael Beetz)
- Industry presentations
  - ABB (Mikael Hedelind)
  - Kuka (Jürgen Bock)
- Academic research 2
- Standardization (IEEE ORA, Tamas Haidegger)
- Discussion
- Conclusions, plans for the future

# Research presentations

- Michael Beetz, University of Bremen
- Alexander Perzylo, FORTISS
- Jacek Malec, Lund University
- Nadia Ahmed, FZI
- Herman Bruyninckx, KUL

# Organizers

Saadia Dhouib, CEA, France, saadia.dhouib@cea.fr,
Tamas Haidegger, Óbuda University, Hungary, haidegger@ieee.org,
Jacek Malec, Lund University, Sweden, jacek.malec@cs.lth.se,
Alexander Perzylo, FORTISS, Germany, perzylo@fortiss.org,
Moritz Tenorth, University of Bremen, Germany, moritz@tenorth.de

# Discussion topics

1. Use cases (EU-financed research projects, existing or planned industrial applications)
2. Expected business models
3. Forecast of the development of semantic technology in industrial robotics (planned or demanded) for the coming 5 years

LUND
UNIVERSITY