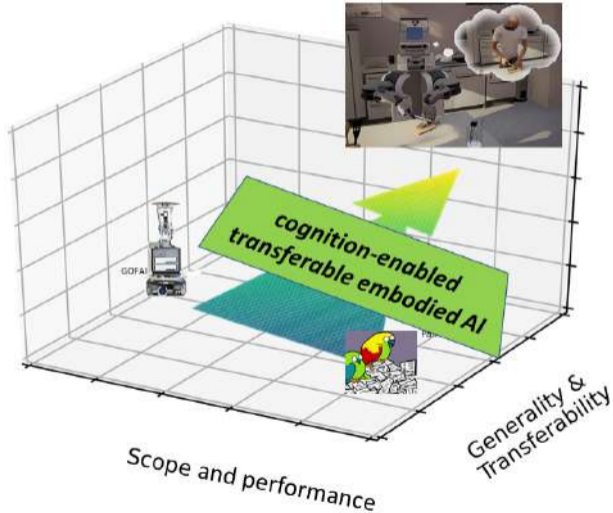


EuroCore - a personal perspective

Michael Beetz and IAI team at Uni Bremen

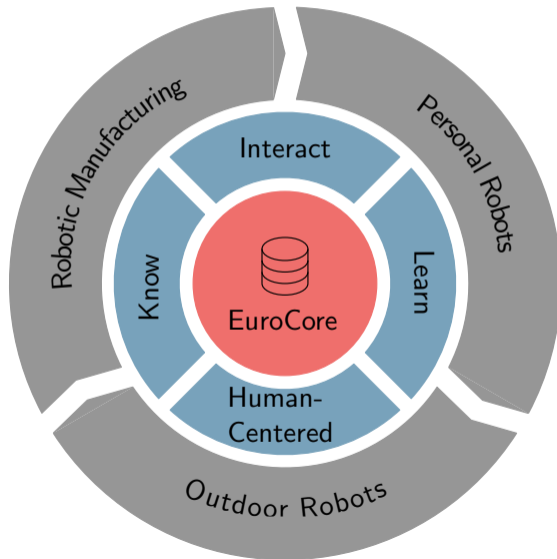
March 15, 2023

euROBIN – Cognition-enabled transferable embodied AI



cognition-enabled robots

- ▶ solve body motion problem
- ▶ understand what they are doing
- ▶ can self-program



How to build a research and innovation ecosystem for robotics



A digital research and innovation platform for robotics

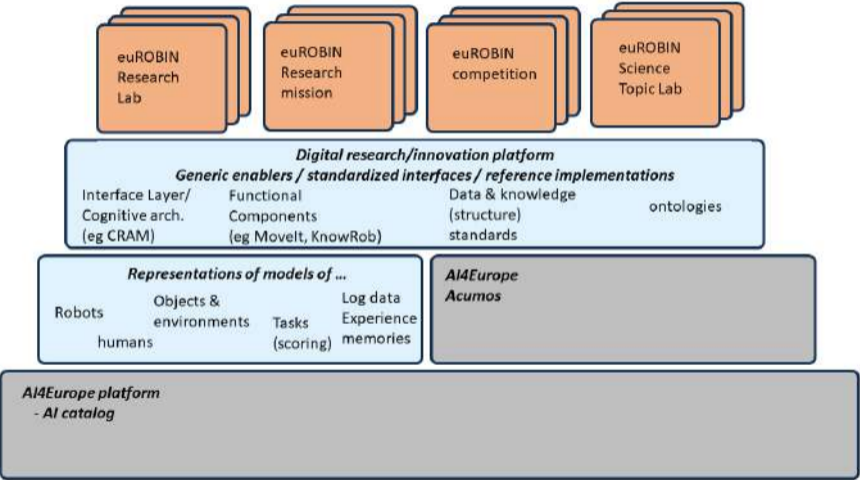
*AI4Europe
Acumos*

*AI4Europe platform
- AI catalog*

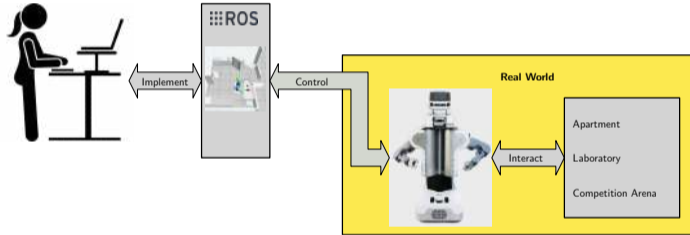
A digital research and innovation platform for robotics



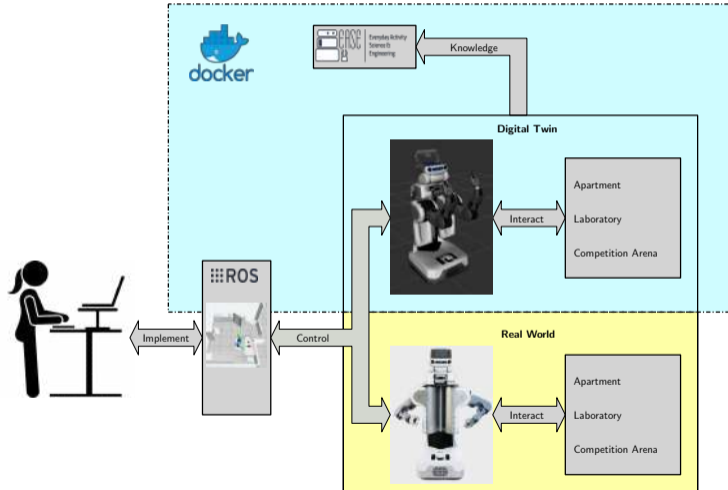
A digital research and innovation platform for robotics



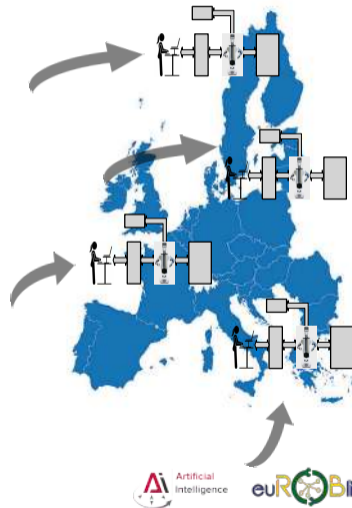
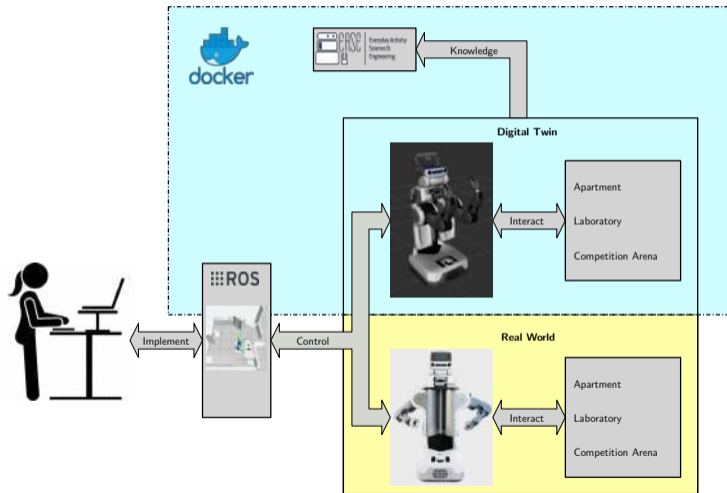
Enable everybody, everywhere



Enable everybody, everywhere

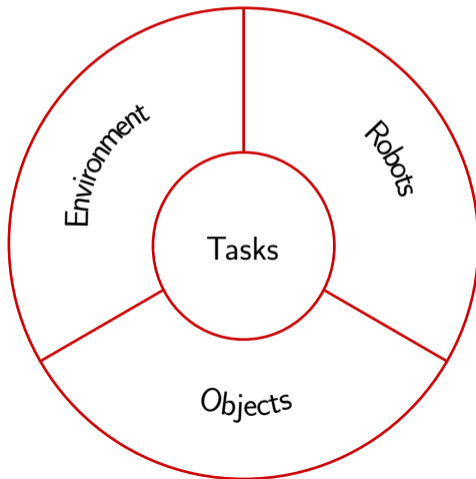


Enable everybody, everywhere

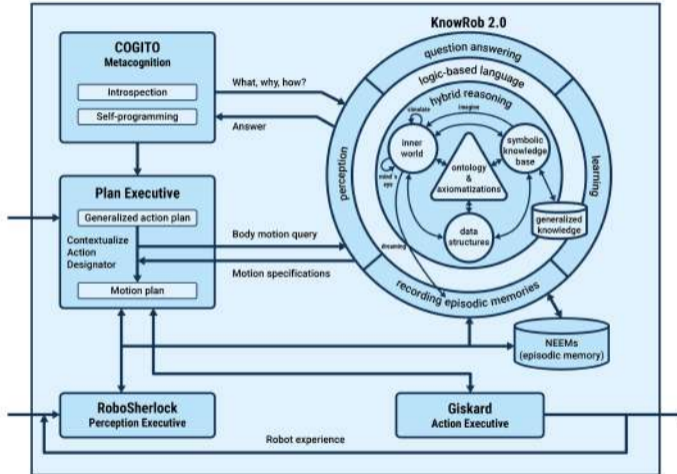
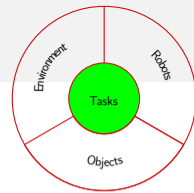


EuroCore (European Robotics Collaborative Repository)

Tasks = robots + objects + environments



Generalized, transferable control programs



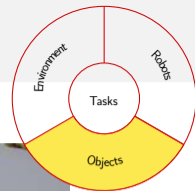
EuroCore - Environments



EuroCore - Robots



EuroCore - Objects



EuroCore - European Robotics Collaborative Repository



openEASE - Open Knowledge for AI-Enabled Robots

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hasComponent('PR2_0', 'PR2Arm_L'),  
hasBaseLinkName('PR2Arm_L', 'l_shoulder_pan_link'),  
hasComponent('PR2Arm_L', 'PR2Gripper_L'),  
hasGripForce('PR2Gripper_L', 80)  
...
```



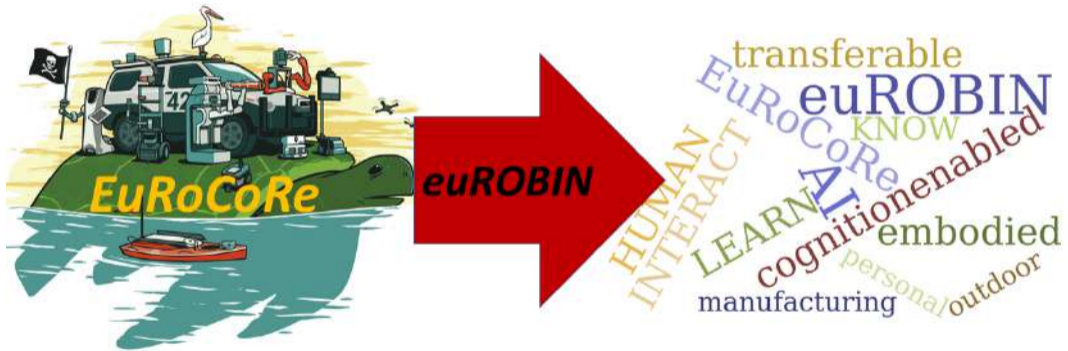
openEASE - Open Knowledge for AI-Enabled Robots

Open interactive robotics textbook



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EuroCore is to enable everybody, everywhere to conduct successful, synergistic, responsible, and impactful euROBIN research and innovation