

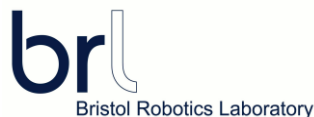


European Clearing House for Open Robotics Development Plus Plus

European Robotics Forum

Reinhard Lafrenz, TUM

Rovereto, 13.3.2014



What is ECHORD++

- FP7 project where you can participate
- 5 initial partners.
2 more with specific expertise
in discussion
- Based on the success of
ECHORD (2009-2013).



ECHORD++ Project facts

- Runtime 1.10.2013 – 30.9.2018
- Funding ~19 Mio. €
- Most of the funding is re-distributed to partners to be added: You!
- Focus on application-oriented research and development and creation of impact
- Increased outreach, dissemination, and exploitation
- Best practice of ECHORD + two new instruments

Instruments in ECHORD++



Experiments



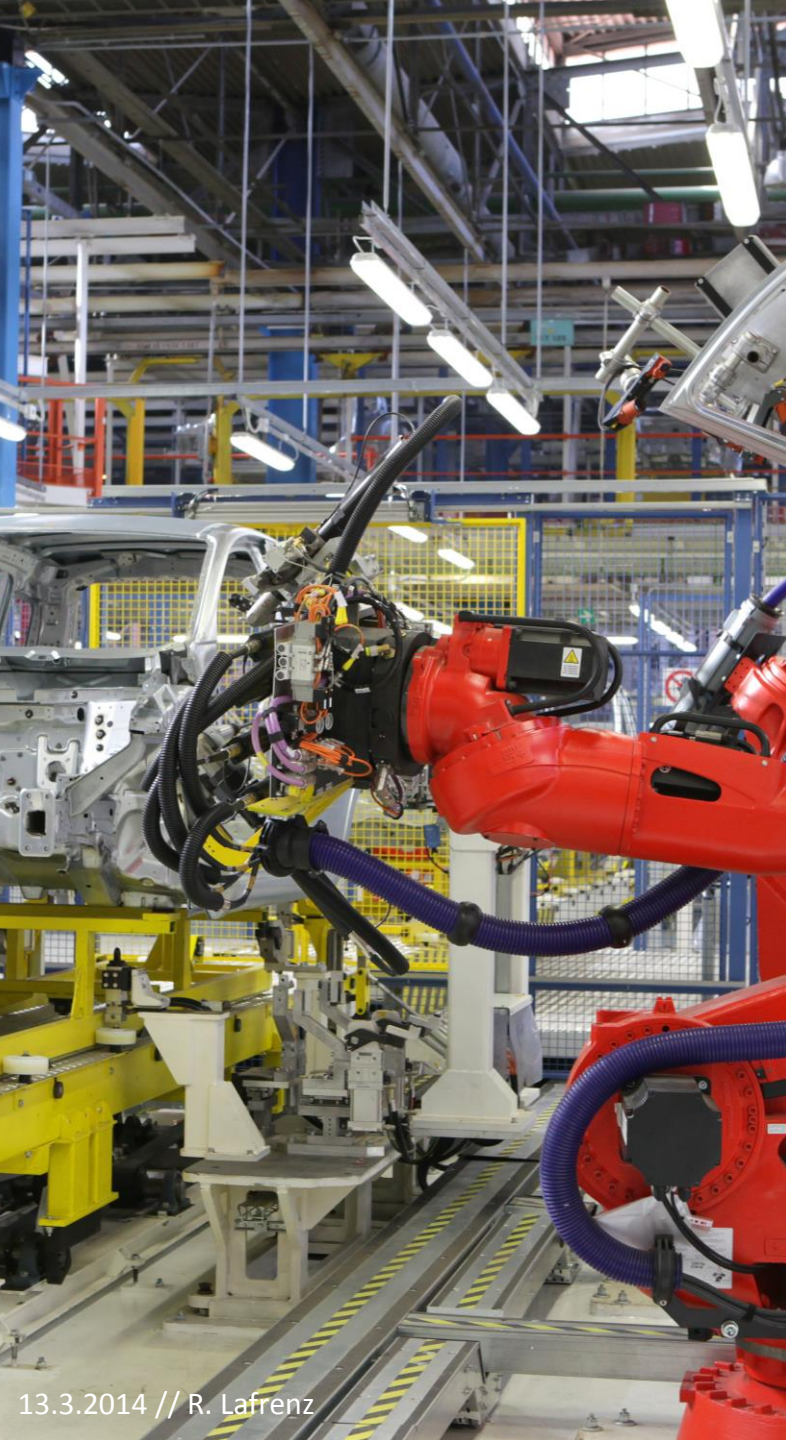
**Robotics
Innovation
Facilities
(RIFs)**



**Pre-Commercial
Procurement Pilots
(PCP Pilots)**

Robotics Innovation Facilities (RIFs)

- Physical infrastructures at three locations: Bristol (UK), Pisa/Peccoli (IT), Paris (FR)
- Easy access without the need to join the consortium
- Short and focused stays
- HW, SW, and other services such as business consultancy
- Ideal to test prototypes, perform specific development steps, etc.
- Main target group: SMEs



Pilot PCPs within E++

(Pre-commercial Procurement)

- Complementary to PCP other actions
- Focus on integration of public bodies in product development
- Scenarios addressed: URBAN ROBOTICS and HEALTHCARE
- 2 challenges based on input from public bodies (Healthcare / Urban Robotics)
- Three consortia per scenario to perform R&D in a competitive way



ECHORD++

Instruments



Experiments



**Robotics
Innovation
Facilities
(RIF)**



**Pre-Commercial
Procurement Pilots
(PCP Pilots)**

Experiments

Scheme as in ECHORD with improvements

- Small-scale projects within ECHORD
- Revised scenario definitions
- Optimized timing of all administrative procedures
- Interaction with other instruments
- Total experiment funding: ~ 10 Mio. €



Experiments

Small to medium sized **scientific research and/or technology development** projects with a clear focus on generation of impact

- Funding ~ 300k€ per experiment
- Duration up to 18 months
- Small consortia, typically 2-3 partners
- No need for 3 different countries
- Two calls, spring 2014, and mid-2015
- **Deadline call 1:**
14th April 2014, 17.00 Brussels time

More information and submission at
www.echord.eu



Timeline Call 1 for experiments

3rd March 2014: first call of experiments open

24th March 2014: deadline for pre-proposals

**14th April 2014, 17:00
Brussels time:** deadline for proposal submission

July 2014: Information about the outcome and start of the accession procedure

October 2014: Formal submission of amendment documents



Types of Experiments

1. Joint enabling technology development
2. Application development and implementation of use cases
3. Feasibility demonstration



Scenarios

1. Cognitive Tools and Workers for Cognitive Factories
2. General Purpose Robotic Co-workers
3. Cognitive Logistics Robots for Industry
4. Medical Robotics
5. Agricultural and Food Robotics

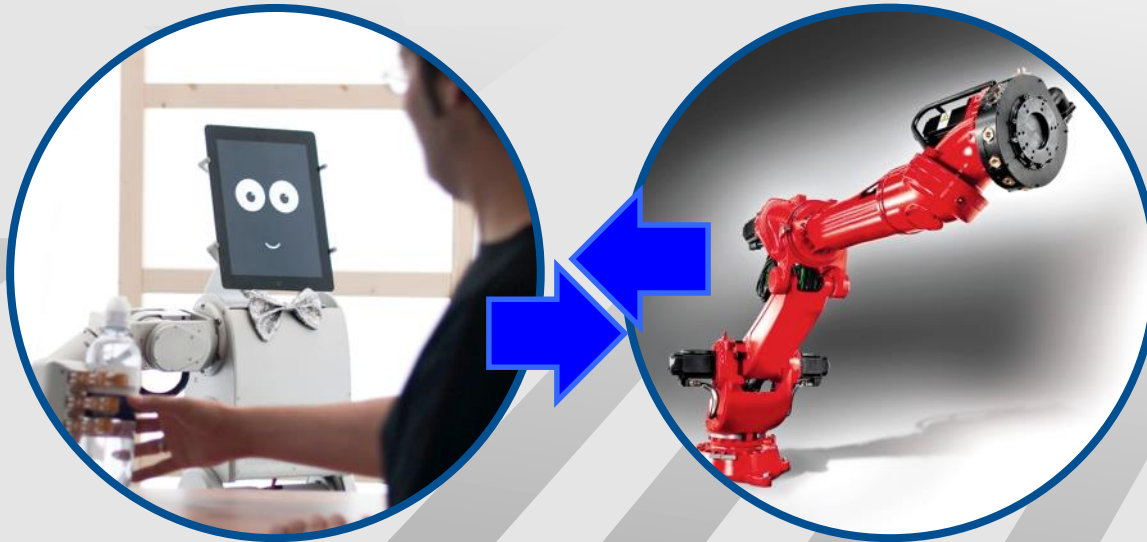
Research foci

1. Key Issues in Practical Machine Cognition
2. Advanced Perception and Action Capabilities
3. Multiple Cooperating Mobile Manipulators
4. System Architectures, Systems and Software Engineering Processes and Tools



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Linking RIFs and Experiments



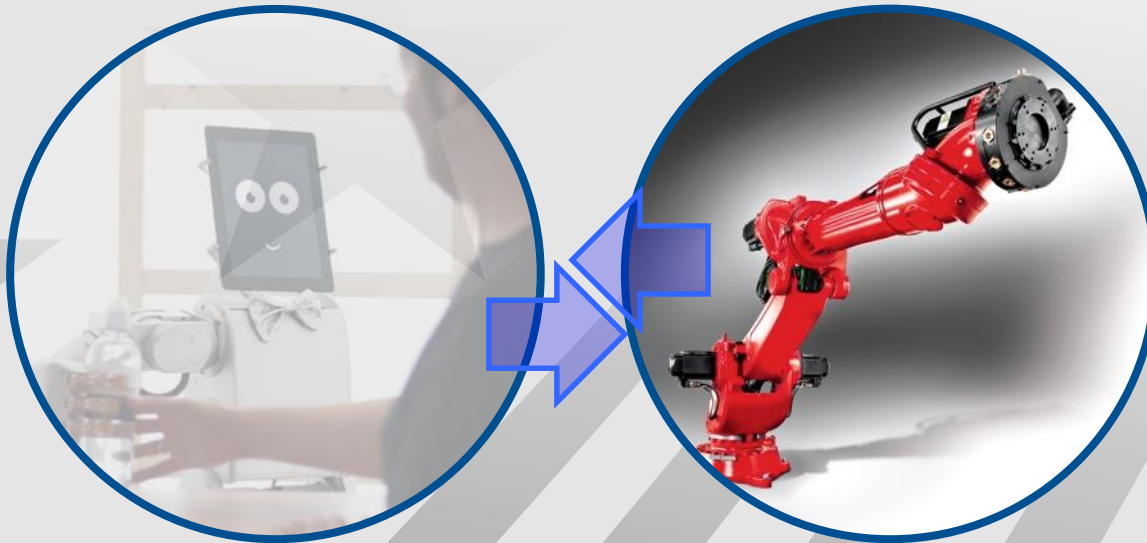
Experiments

**Robotics
Innovation
Facilities
(RIF)**

- Use RIFs as test beds outside the own lab
- Get access to robotics equipment and experts to support bootstrapping and knowledge transfer
- Show your results and participate in dissemination events

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More on RIFs in a separate session



Workshop Focus

- Presentation of concept
- Getting feedback from potential users, especially from industry

Visit our RIF workshop tomorrow,
Friday, 14.3.2014, 8:30-10:30 track 3

Thank you.

Questions?

The ECHORD Plus Plus Consortium acknowledges support by the European Commission under FP7 contract 601116.

