

I4MS

Fostering Digital Industrial Innovation in Europe

17th & 18th of June 2014

BERLIN



The ECHORD++ project

Reinhard Lafrenz, Technical University of Munich (DE)

- Introduction
- ECHORD++ in a Nutshell
- Experiments
- Robotics Innovation Facilities
- Contact

Introduction



- **Motivation**

- Based on experience in previous ECHORD project
- Experiments + 2 additional instruments
- Clear focus on impact
- SMEs as one of the main target groups

- **Scenarios**

- Cognitive Tools and Workers for Cognitive Factories
- General Purpose Robotic Co-workers
- Cognitive Logistics Robots for Industry
- Medical Robotics
- Agricultural and Food Robotics



ECHORD++ in a Nutshell



Experiments

- Small-scale subprojects
- Typically 2-3 partners
- 2 open calls
- 300k€ funding
- 18 months duration



Robotics Innovation Facilities (RIFs)

- 3 physical infrastructures
 - Bristol, UK
 - Peccioli/Pisa, IT
 - Paris, FR
- Open access to HW and support
- Light touch applications



Pre-Commercial Procurement Pilots (PCP Pilots)

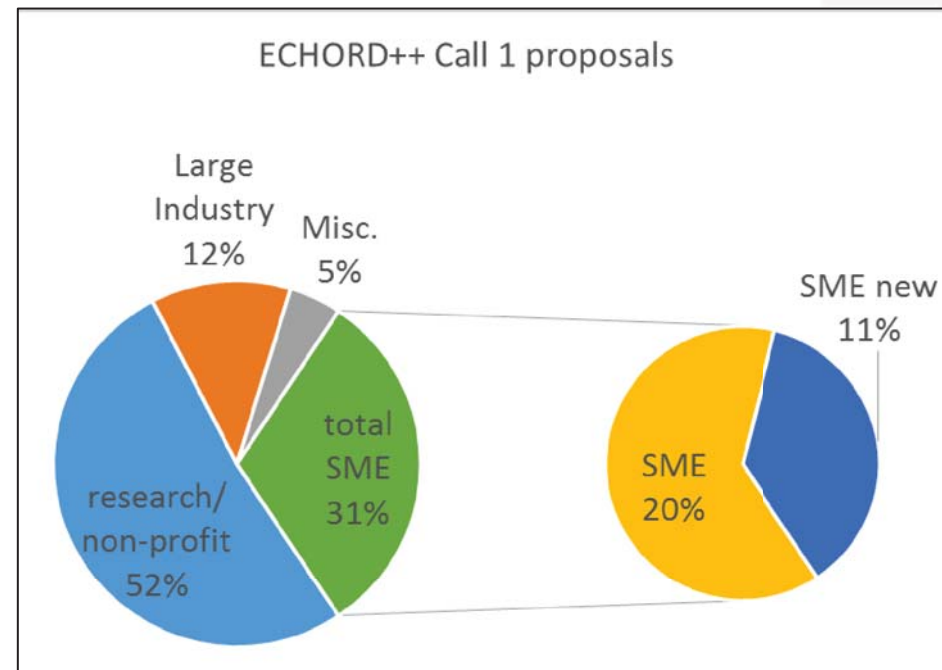
- Prototypical installations at public bodies in 2 areas
 - Healthcare
 - Smart Cities
- Demand-driven development by R&D consortia

Experiments



- **Call 1 (deadline was April 14, 2014)**
 - 137 eligible proposals received, 348 partners in total
 - Emphasis on impact-oriented cooperation between industry and research

- **SME participation in call 1**
 - 109 SMEs = 32% of the applicants
 - 40 “new” SMEs, i.e. not yet involved in EU projects
- **Next call mid-2015**
 - Please follow us on www.echord.eu



Robotics Innovation Facilities



- **Three physical lab infrastructures**

- RIF @ Bristol Robotics Laboratory, Bristol, UK:
 - Manufacturing, Assisted Living, Medical engineering, Food and Agriculture, Edutainment, General robotics, automation, sensors and actuators
- RIF@ Scuola Superiore Sant'Anna, Pecioli (near Pisa), Italy:
 - Robotic worker, Logistics robots, Robot co-worker in domestic environments, Edutainment, agricultural robotics
- RIF@CEA (Commissariat à l'énergie atomique et aux énergies alternatives), Paris, France:
 - Teleoperated surgical robots, multi-modal sensing of the operation site, cognitive interface between the surgeon and the robot system, smart instruments for minimally invasive surgery, Telemedicine, Rehabilitation robotics



- **New concept to allow for access to research infrastructure and expertise**

- Three physical infrastructures providing infrastructure and services
- Stay duration up to 6 weeks, re-application after a successful stay possible
- No application deadlines
- No need to become a formal partner of ECHORD++ (no amendment request)
- Evaluation panel every 2 months

- **Intended user groups**

- SMEs and start-ups
- Students
- New user groups
- E++ Experiments
- Workshop Attendees



Contact us



- Email enquiries
 - info@echord.eu
- Website
 - <http://www.echord.eu>



- LinkedIn group 
 - www.linkedin.com/groups/ECHORD-European-Clearing-House-Open-6528015