



ECHORD

European Clearing House for Open Robotics Development

San Francisco

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European Clearing House
for Open Robotics Development
www.echord.info



A Brief History and Motivation of the ECHORD Project

Concept

- Encourage robot manufacturers and research institutions to work together more closely on an operational level
 - Instrument 1: Enable them to get funding for **small projects** (called “experiments”), with a duration of typically 18 months
 - Instrument 2: Start a **systematic bidirectional exchange** of views and opinions about the trends, needs and technology developments
- ➔ **Shape European robotics future profile ... by strengthening two-way synergies between academia and industry!**

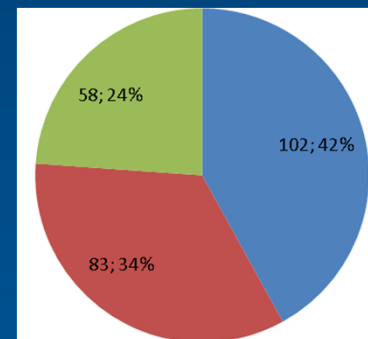
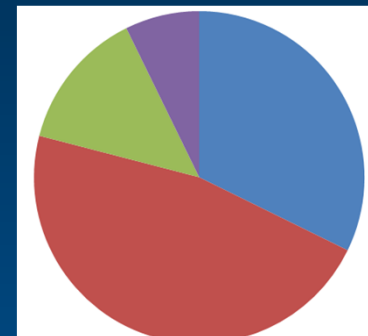
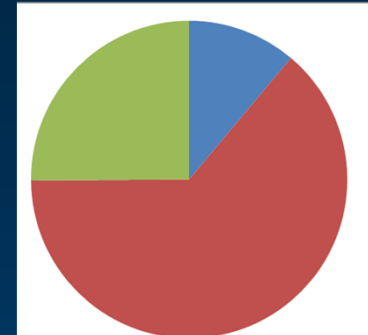
Project outline

- Funded by DG INFSO, INFSO.E.5: Cognitive Systems, Interaction, Robotics. Head of Unit: Dr. Libor Král
- Started 1.1.2009
- Total budget: approx. 24 M Euro, 19 M Euro funding



Experiments – scenarios, research foci and experiment types

- Scenarios
 - Human-robot co-worker
 - Hyper-flexible cell
 - Cognitive factory
- Research foci
 - Human-robot interfacing and safety
 - Robot hands and complex manipulation
 - Mobile manipulators and cooperation
 - Networked robots
- Types of experiments:
 - Application development
 - Feasibility demonstration
 - Joint enabling technology development



Experiments – calls and results

Call	Deadline	Main scenario	Number of eligible proposals	Number of experiments selected
1	Dec 1, 2009	Human-robot co-worker	108	16
2	Apr 30, 2010	Hyper-flexible cell	70	20
3	Oct 1, 2010	Cognitive factory	65	15

Presentations by experiments

Acronym	Keywords	Scenario	Focus
TRAFCON	Automatic warehouses, traffic control	Mobile manipulators and cooperation	Hyper-flexible cells
InterAid	Mobile manipulation	Mobile manipulators and cooperation	Human-robot co-worker
Hands.DVI	Robotic Hands	Robot hands and complex manipulation	Hyper-flexible cells
HUBRINA	Agriculture	Mobile manipulators and cooperation	Human-robot co-worker