# ECHORD Experiments kick-off meeting

## - second and third amendment-

## 6.4.2011 Västerås, Sweden



- Welcome note
- Current state and timeline for Call 2 and Call 3 experiments
- ECHORD's concept to handle experiments
- Introduction of participants and experiments
- Experiment monitoring procedures and requirements
- Experiment monitoring IT infrastructure
- Open discussion about networking opportunities within ECHORD



## Idea

- 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" in the sequel)
- 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!



## **Calls for experiment proposals – timing and statistics**

| Call | Call open    | Deadline     | Evaluation<br>results sent | Number of<br>eligible<br>proposals | Number of<br>resubmissions<br>as marked by<br>proposers (*) | Number of<br>experiments<br>selected |
|------|--------------|--------------|----------------------------|------------------------------------|---|--------------------------------------|
| 1    | Oct 5, 2009  | Dec 1, 2009  | Mar 15, 2010               | 108                                | n/a   | 16                                   |
| 2    | Mar 16, 2010 | Apr 30, 2010 | July 27, 2010              | 70                                 | 16  | 20                                   |
| 3    | Aug 24, 2010 | Oct 1, 2010  | Dec 23, 2010               | 65                                 | 18  | 15                                   |
|      | TOTAL        |              |                            | 243                                | 34  | 51                                   |

(\*) The total number of resubmissions includes also double resubmissions in call 2 & 3



- Due to delayed start of experiments of call 1, experiments of calls 2 and 3 will not be completed during the 42 month total duration of ECHORD
- Amendment request 2 (experiments of call 2 + remaining experiments of call 1) includes a request for extension of the Project to 50 months (Feb. 2013)
- Additional time for scientific follow-up after completion of experiments



## Management issues

- All experiments (and coordinating parties) form one single project (= ECHORD)
- All actions/paperwork of the experiments must be in compliance with FP7 rules
- Handling of financial issues according to the institution's usual practice
- Official ECHORD reporting periods as in the amendment request: End of 2010, End of 2011, Feb. 2013 (end of project after accepted extension)



## **Amendment stages**



## QM for experiments – Monitoring and Reviewing





## Timeline experiments

| When              | What  |
|-------------------|---|
| ASAP              | Start of the experiments                                  |
| M1                | Phone conference regarding experiment start               |
| M4, 6,            | On-line progress reports and website contents             |
| M69               | Visit by ECHORD staff or reviewers (selected experiments) |
| M9                | Mid-term review   |
| M15               | Multimedia report   |
| M18 (end of exp.) | Final report and final review                             |
| May 2012          | Presentation of selected experiments at AUTOMATICA        |



## **Reporting and Reviewing**

- Emphasis on tangible results, pictures, videos, live demonstrations
- Bi-monthly online reports
- Short deliverables (1 or 2 pages + multimedia material)
- Mid-term and final review for experiments (internally)
- Possibilities for reviews:
  - Remote (paper, multi-media)
  - On-site at experimenter's location
  - Central location for all experiments
- These experiment reviews are regarded as preparatory reviews for the official EC reviews of the whole ECHORD project



## **Demonstration and dissemination of results**

#### Emphasis on tangible results

- Demonstrators (live at events, multimedia material on the web)
- Website and social media
- Papers at conferences and workshops
- Organisation of special tracks and workshops at major conferences



## Introduction of participants and experiments

| Participant      | articipant Institution/company   |                                     | е |
|------------------|----------------------------------|-------------------------------------|---|
| Jorge Martins    | UT Lisboa                        | HIPROB (Call 3)                     | 1 |
| Paulo Gonçalves  | UT Lisboa                        | HIPROB (Call 3)                     | 1 |
| Rich Walker      | Shadow                           | HYFLAM (Call 2),<br>DEXDEB (Call 2) | 1 |
| Hugo Elias       | Shadow                           | DEXDEB (Call 2)                     | 1 |
| Jake Goldsmith   | Shadow                           | HYFLAM (Call 2)                     | 1 |
| Markus Schwarz   | Universitätsklinikum Mannheim    | AssRob (Call 3)                     | 1 |
| Craig A. Lindley | Blekinge Institute of Technology |                                     | 1 |
| Iñaki Maurtua    | Tekinker                         | EASYPRO (Call 2)                    | 1 |
| Volker Krueger   | Aalborg University               | GISA (Call2)                        | 1 |
| Ole Madsen       | Aalborg University               | GISA (Call2)                        | 1 |
| Cédric Baradat   | Tecnalia                         | Prada (Call 3)                      | 1 |
| Norbert Elkmann  | IFF                              |                                     | 1 |
| Christoph Walter | IFF                              |                                     | 1 |



## Introduction of participants and experiments

| Participant         | Institution/company                    | Experiment name                    |   |
|---------------------|--|------------------------------------|---|
| Per Ljunggren       | Intelligent Machines Stockhol AB       | MUCE (Call 3)                      | 1 |
| Cristian Secchi     | University of Modena, DISMI            | TRAFCON (Call 1)                   | 1 |
| Luca Bascetta       | POLIMI                                 | FIDELIO (Call2)                    | 1 |
| Paolo Fiorini       | Università di Verona                   | EduFill (Call 3)                   | 1 |
| Gabriele Randelli   | Università di Roma                     | S4R (Call 3)                       | 1 |
| Luis Unzueta        | Vicomtech                              | KOMPEYE (Call 3)                   | 1 |
| Daniel Vander Vorst | Vicomtech                              | KOMPEYE (Call 3)                   | 1 |
| Rodolphe Gelin      | Aldebaran                              | BABIR (Call 2), GRASPY<br>(Call 1) | 1 |
| Dirk Kraft          | University of Southern Denmark         | LearnBiP (Call 2)                  | 1 |
| Carlos Perez Vidal  | Universidad Miguehl Hernandez<br>Elche | MAAT (Call 2), HERMES<br>(Call 3)  | 1 |
| Sebastian Haag      | Fraunhofer IPT                         |                                    | 1 |



## Introduction of participants and experiments

| Participant           | Institution/company         | Experiment na    | ime |
|-----------------------|-----------------------------|------------------|-----|
| Wael Suleiman         | Universtität Heidelberg     | GOP (Call 2)     | 1   |
|                       |                             | RIVERWATCH (Call |     |
| Pedro Santana         | UNINOVA                     | 3)               | 1   |
|                       |                             | RIVERWATCH (Call |     |
| José Barata           | UNINOVA                     | 3)               | 1   |
| Matthias Kennel       | Fraunhofer IFF              | BRACOG (Call 2)  | 1   |
| Diego Barrettino      | SUPSI                       | REMAV (Call 3)   | 1   |
| Domenica Prattichizzo | University of Siena         | HANDS (Call1)    | 1   |
|                       | Univ. Applied Science Bonn- |                  |     |
| Björn Kahl            | Rhein-Sieg                  | EduFill (Call3)  | 1   |
| Klas Milsson          | Lund Univ.                  | MONROE (Call2)   | 1   |
|                       | TU Berlin                   | RODIN (Call 3)   | 1   |



## Monitoring of Experiments



## **Communication within the project**

• Communication structure





Four communication tools will be used:

- On site visits (ECHORD<->Experimenters).
- The IT platform (blog +wiki) (Exp.<->ECHORD<->EC<->Public)
- Progress report table (Experimenters->ECHORD->EC)
- Phone/video conferences (ECHORD<->Experimenters)



## Scientific monitoring





## **Scientific monitoring**

- Kick-off Phone conference
  - acknowledge the start of the experiment
  - clarify the monitoring rules and introducing monitoring
- ECHORD-Logbook: bi-monthly logbook post
- One monitoring visit for selected experiments
  - between month 6 and month 9 (agreed with research team)
- Phone/video conference.
- Multimedia reports on month 15 (draft )and month 18 (final report);
- Experiment Wiki
- Traffic light statuc tables.

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## LogBook reporting timeline.

•Reports must be made every two months



#### •Reporting timeline:

- ECHORD report and traffic light (discussed with the experiment moderator)
- 2. Summary
- 3. Public summary



## **ECHORD** report.

Size: up to 7500 characters with spaces.

Visibility: Experimenter+ Core Consortium

Comments. Available (Blog discussion with the moderator)

**Objective:** Monitoring.

**Description:** Describes the experiment efforts in detail:

- -techniques and equipments used
- -obtained results
- interesting remarks
- clear indication about deviations (traffic light).

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## **ECHORD report – traffic light**

#### Examples

| Justificatio | n: The proje    | ct is progres | ssing | as planned w | ithout |
|--------------|-----------------|---------------|-------|--------------|--------|
| significant  | deviations.     | Milestones    | and   | deliverables | are    |
| scheduled a  | and not at risk |               |       |              |        |

|--|

| $\bigcirc$ | <b>Justification:</b> The project isn't progressing as planned and significant deviations are to be considered. Milestones and |
|------------|--|
|            | deliverables are at risk.  |
|            | The main problems we had to address were   |
|            | The plan designed to solve this issues is  |
|            | We expect the following delays   |



Size: 1000 characters with spaces.

Visibility: ECHORD consortium.

Comments. Available

**Objective:** Cross experiment technology transfer and final reporting.

#### **Description:**

- abstract focusing on the main items reported in the post;
- should be written in an incremental way;
- stack of Summaries as the base for the final and annual reporting;



## Public summary.

Size: 500 characters with spaces

**Objectives:** Public awareness of the project.

Comments: not available.

#### **Description:**

- -public information that will be printed on the ECHORD website.
- easy to read and attractive
- directly printed in the Experiment wikipage.

•Each experiment team has the responsibility of maintain a wikipage which is the public face of the project.



## IT platform for monitoring



## IT-Platform: monitoring, communication with experimenters

#### Moderator of ECHORD team

(work analysis, progress assessment, result extraction, diffusion, synthesis on trends/ applications/safety)

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- Instructions
- Discussions
- Status

- visit

- Corrective actions
- Post (report + summaries)
  - every two months
  - Multimedia report
  - Deliverables
  - Review report
  - Demonstrator

#### Experimenter

(coordinates the experiment, communicates with ECHORD team)



## IT-Platform: a tool used in the monitoring to optimize the structured dialogue with and inside ECHORD experiments

Frequent, fast, efficient, interactive and evolutive **communication** is required between many Moderators, Experimenters and Public

**IT-platform** on the ECHORD website using wiki-pages offers these advantages



## IT-Platform: main page of the ECHORD website





### **IT-Platform:** access





## IT-Platform: main page of the IT-platform





## **IT-Platform: how to post the report**





## **IT-Platform: how to post the report**

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| Title   | ECHORD Report Month 1/2011 *   |  |   |                                       |
| Finished  |  |  |   | Status set by the                     |
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| In this period a series of test measuren<br>acquire the initial data set of sensorimo | ments on task primitives performed by a human-demonstrator and by the ro<br>otor primitives. The acquired data was processed and rules for tasks gener | bot were accomplished with objective to<br>alization extracted |   | The text of the     report in entered |
| http://www.echord.info/   |  |  |   | here, illustrations                   |
|   |  |  |   | can be included                       |



## **IT-Platform: example of posted report**





## IT-Platform: report review, status and blog discussion





## **IT-Platform: how to post the summaries**

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| ECHORD European Clearing House<br>for Open Robotics Developme   | ent  |
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| View  | New Echord Report New Summary New Public Summary   |
| Call1 Monitoring  | 1 1  |
| These link enables to post the public summaries (posted bef     | e semi-public and the fore the end of the month)   |
| ttp://www.echord.info/  |  |



## **IT-Platform: example of posted public summary**





- Networking opportunities within ECHORD
- Organization of joint workshops
- Organisation of special tracks
- Special issue in one of the major journals



## Thank you!

