

IST PROGRAMME



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End-User Development

**Empowering people to flexibly employ advanced
information and communication technology**

Contract Number IST-2001-37470

D1.4 3rd EUD-Net Workshop

**International Symposium
on end-user development**

Fraunhofer FIT, Schloss Birlinghoven

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Summary

This document reports on the 3rd EUD-Net Workshop which was organized by and took place at the Fraunhofer Institute FIT, Schloss Birlinghoven, on the 6th and 7th of October 2003. The report includes information on the intention of the workshop, its programme and its main results.

October 2003

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Executive summary

This document extends the EUD-Net Deliverable D1.3. It reports on the 3rd EUD-Net Workshop which was organized by and took place at the Fraunhofer Institute FIT, Schloss Birlinghoven, on the 6th and 7th of October 2003. The report includes information on the intention of the workshop, its programme and its main results. In summary, the workshop had the following objectives:

- Organize a final event for EUD-Net with high international visibility.
- Discuss and emphasize the key questions to be addressed in future R&D activities within the industry and academia.
- Raise awareness for EUD with funding bodies.

1. Function of the 3rd EUD-Net workshop

The 3rd EUD-Net workshop was the final event of the EUD-Net project. As such it had to fulfil a number of functions, including:

- Create international visibility for the European effort in promoting the subject of end-user development.
- Strengthen the links to EUD-related R&D activities outside Europe.
- Draw conclusions for the key EUD-related R&D activities that have to be carried out after the end of EUD-Net.
- Discuss possible scenarios for funding EUD-related R&D activities in terms of partner networks and funding bodies.

In order to achieve these goals the 3rd EUD-Net workshop was organized as an international symposium. The key EUD researchers from the United States that had been following the EUD-Net project were invited to give talks. Representatives from European and national funding bodies were invited to attend the meeting and discuss about potential funding opportunities.

Also, complementary industry players that were not part of EUD-Net were invited to bring in their view on the subject of EUD and enrich the discussion.

After the first day, spend on talks, and three parallel workshops in the morning of the second day, a panel discussion was held to have a final discussion with all EUD-Net members.

2. Programme of the 3rd EUD-Net workshop

October 6, 2003	
10.00 11.00	<p>Opening Addresses (Section Chair: Volker Wulf, Fraunhofer FIT, Germany) Prof. Dr. Matthias Jarke (Fraunhofer-FIT) Dr. Vassilis Kopanas (IST Directorate, European Commission) Dr. Bernd Reuse (German Ministry of Education and Research) Karl Schultheis (North Rhine Westphalian State Ministry for Science and Research) Dr. Gerit Sonntag (German Science Foundation)</p>
11.00 12.00	<p>Plenary Talk (Section Chair: Fabio Paternó, ISTI - CNR, Italy) <i>"End User Development: Towards a new Research Paradigm"</i> Henry Lieberman (MIT Media Lab, Cambridge, USA)</p>

12.00 13.00	Break for Lunch		
Plenary Talks (Section Chair: M. F. Costabile, University of Bari, Italy)			
13.00 13.45	<i>"End User Development for Interactive Multi-Platform Applications"</i> Fabio Paternó and Carmen Santoro (C.N.R., Pisa, Italy)		
13.45 14.30	<i>"The Pragmatic Web: End-User Development meets the Web"</i> Alexander Reppenning (University of Colorado, Boulder, USA)		
14.30 15.15	<u>"Component-based Tailorability: Concepts and Experiences "</u> <u>(2102 KB) Download</u> Volker Wulf and Markus Won (University of Siegen and Fraunhofer FIT, Germany)		
15.45 17.45	Industrial Needs in End User Development (Section Chair: A. Sutcliffe, UMIST, UK) Short presentations from: <ul style="list-style-type: none"> - Telecom Italia - Philips - Siemens - SAP - Think3 - BITKOM - VDMA (asked) - Different European SMEs 		
18.00 19.00	Plenary Talk (Section Chair: Reinhard Oppermann, Fraunhofer FIT, Germany) <i>"Meta-Design: A Framework for the Future of End User Development "</i> Gerhard Fischer (University of Colorado, Boulder, USA)		
19:00	Buffet in Schloss Birlinghoven		
October 7, 2003			
09.30 12.00	<u>Workshop A: Software Engineering Issues in EUD</u> Chairs: Gregor Engels	<u>Workshop B: EUD as a Cooperative Activity</u>	<u>Workshop C: Human Computer Interaction in</u>

	<i>(University of Paderborn, Germany), Stefan Sauer (University of Paderborn, Germany) and Yvonne Dittrich (Blekinge Institute of Technology, Sweden and IT-University Copenhagen, Denmark)</i>	Chairs: M. Klann (Fraunhofer FIT, Germany) and H. Kahler, (International Institute for Socio-Informatics, Germany)	EUD Chairs: Simone Barbosa (Dept. de Informática, PUC-Rio de Janeiro, Brasiland) and Philippe Palanque (LIIHS-IRIT, University Toulouse 3, France)
12.00 13.00	Break for lunch		
13.00 13.45	Presentation of results from the three workshops		
14.00 15.30	Panel: Research Challenges and Future Actions <ul style="list-style-type: none"> - Gerhard Fischer (University of Colorado, USA) - Markus Klann (Fraunhofer FIT, Germany) - Henry Lieberman (MIT Media Lab, Cambridge, USA) - Fabio Paternó, (C.N.R., Pisa, Italy) - Alexander Repenning (University of Colorado, Boulder, USA) - Alistair Sutcliffe (UMIST, UK) - Boris de Ruyter (Philips, Eindhoven, The Netherlands) - Volker Wulf (University of Siegen and Fraunhofer FIT, Germany) 		

3. Key results of the 3rd EUD-Net workshop

The panel discussion showed a very positive tendency for EUD on both the research and industry level. Especially, the talks by the SAP and Philips representatives highlighted the need for EUD functionalities. Among the EUD-Net members a joint will to continue work in the area of EUD was clearly stated. Discussions with the representatives of the funding bodies were very positive such that after the Symposium there are now talks on how to integrate calls for EUD projects with some of the national research funding initiatives. Also, consortia of EUD-Net members are now forming to set up proposals for these EUD-related calls.

Three issues are important challenges discussed at the Workshop. First the tools and methods for the end-user development have to be improved and connected and integrated with other tools and methods of applications. There are a lot of more or less isolated mechanisms for end-user development, but there is not yet a holistic concept for end-users to be based on prepared functionality together with access to self-directed tools and methods for specific tasks. Second the software-developers as a

community has not developed a clear understanding of the relationship between software manufacturing and software application. Software-developers understand their job to build a product with specified functionality. There is no culture in this community that integrates the user-orientated requirement engineering, product development and end-user development methods within the context of use. Third the employers in the user organisations spend more attention to the functionality of a system and its introduction in the infrastructure of the organisation than to production support tools for end-users and end-user communities. There is no clear understanding and culture to combine the creativity of the software developer and the creativity of the end-users together with a dynamic interaction between developers, technological artefacts and user-communities.

As a general challenge for the field of EUD it was identified that novel business models must be sought that enable companies to exploit EUD-enabled products in the market.