

Friendly Rest Room Final conference Vienna 17 March 2005



Programme &

Presentation Hand-outs

Project QLK6-CT-2001-00458 within the EU FP5, Quality of Life, Key Action 6.





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Foreword

The shifts in age-group ratios in the population are confronting us with new challenges. At the moment Europe is at the top of the old age statistics with the highest life expectancy rate. The changes in the age structure of the population mean new sociopolitical responsibilities both today and in the future. It is quite obvious that appliances and technological equipment can help to maintain older persons' quality of life by enabling them to stay longer in their own homes, and/or to lead relatively more independent lives even if living in an older people's home or some other institution.

FRR ("Friendly Rest Room") was an EU project within the Quality of Life programme which set out to make toilet facilities better suited for older people and people with disabilities. Many elements of the FRR (seat, grab bars, etc.) are individually adjustable to meet the needs of persons with different functional limitations or disabilities, allowing them to gain greater autonomy, independence, self esteem, dignity, safety, improved self-care and, therefore, enable them to enjoy a better quality of life.

We are proud to present in this conference some of the main results from the FRR-project. In many of the scientific disciplines that collaborated in the project, these results form the first attempt to investigate in-depth the area of toileting, thus providing knowledge that did not exist prior to the FRR-project. Though we are fully aware that we did not arrive at a final point, we see a lot of possible solutions to problems so widely spread within the European population.

This conference is hosted by the care providing institution Caritas Socialis in Vienna whose clients and staff members already have contributed significantly to the evaluation of the different laboratory and field test prototypes of the FRR project. This offers an optimal base for our final conference which intends to put the focus on the user related results. Additionally and complementary to this final conference, the consortium is working on publishing a book containing more detailed scientific findings (to be available by mid of this year, publisher: IOS press).

Many of these findings would not have been possible without the continuous support of our Project Officer, Dr. Gesa Hansen, who guided us through difficult phases of the project and thereby encouraged us to carry on. We would like to thank her and our Project Technical Assistant, Mr. Ivor Ambrose, for this support.

Most important, however, was the collaboration of users and user organisations who voluntarily contributed to the project without being reimbursed fully for their large investment of time and effort. The project's success is owed to their willingness, and would not have been able without their contributions. We are very grateful for their support.

Prof. Johan Molenbroek
On behalf of the FRR project consortium



Programme FRR Final conference Vienna, 17 March 2005

Caritas Socialis Pflege und Sozialzentrum Rennweg Oberzellergasse 1, A-1030 Vienna

FRR is a 3-years' research and development project with partners from various disciplines to develop and test prototypes of innovative toilets in order to assist older people or persons with disabilities and to make a contribution to improve their quality of life. The Conference will provide an overview of the project work and of the results.

10:00 Welcome and opening

- Chair person: Prof. Johan Molenbroek, FRR Coordinator, TU Delft.
- Ulla Herfort-Wörndle, Secretary General, EURAG.
- Prof. Wolfgang Zagler, FORTEC, TU Vienna.
- 10:25 Quality of Life / Key Action 6- The Aging Population and Disabilities by Gesa Hansen, European Commission, DG Research.
- 10:40 Overview on FRR Project by Prof. Johan Molenbroek, FRR Coordinator, TU Delft.

User-Driven Research: User Involvement & User Needs

10:50 Results from User Needs Questionnaires

by Christian Dayé, EURAG.

Case Studies from Milan

by Terezina Menezello, SIVA; Milan.

CBI – Computer Based Interviews as a tool

by Peter Gregor, University of Dundee.

User Involvement & Ethics

11:20 Purpose and implementation of User Involvement

by Marianne Egger de Campo / Christian Dayé, EURAG.

Ethics in FRR

by Prof. Ina Wagner / Marjo Rauhala, TU Vienna.

Lunch break (buffet)

12:00 (possibility to join a guided tour to toilet room used for FRR real life test)

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User-Centred Design & Engineering

13:30 Engineering and Manufacturing of the final FRR prototype according to the user needs

by Attila Rist, CSO, Debrecen.

13:45 Research in and design of toilet supports and means for perineal cleansing

by Sonja Buzink & Dries Dekker, TU Delft.

14:00 Design of flexible user interface demonstrator, control software and sensors

by Håkan Neveryd, CERTEC, Lund Univ. & Paul Panek, FORTEC, TU Vienna.

14:20 Overview about iterative prototype generations at the 5 test sites in Vienna, Lund, Athens, Delft and Milan

by Paul Panek, FORTEC, TU Vienna.

14:50 Coffee break

15:20 Toilet design for visually impaired persons

by Håkan Neveryd, CERTEC, Sweden.

Results from Athens - including report about sequence of testing and used material

by Panayota Sourtzi, HAGG & University of Athens, Athens.

15:50 The Final FRR Container final design

by Renate de Bruin, TU Delft.

FRR in the Real Life

16:10 Real life test at a day care centre

Results of the validation phase

by Nadia Gentile, EURAG & Christian Dayé, EURAG.

16:30 Voices of the users

by Robert Schlathau, MS Society Austria User Board (primary user), Ramona Rosenthal, Christine Pauli, Nurses from Caritas Socialis, Vienna (secondary users).

17:00 Discussion

Moderated by Prof. Johan Molenbroek, TU Delft & Paul Panek, FORTEC.

17:30 End of the conference



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Hand-outs Presentations

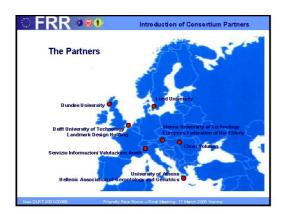
All sheets of presentations (please add possible additional sheets to the presentation after the last slide) present at the BSCW (http://frr.nurs.uoa.gr/bscw/bscw.cgi/0/40090) on Monday March 14th 13h⁰⁰

Welcome and Opening

by Prof. Johan Molenbroek, FRR Coordinator, TU Delft.















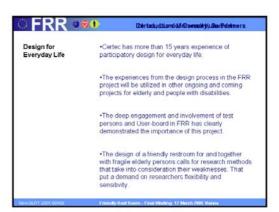






















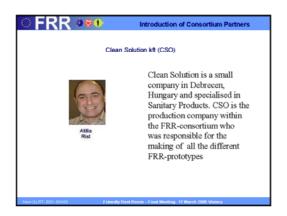














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Overview on FRR Project

by Prof. Johan Molenbroek, FRR Coordinator, TU Delft.







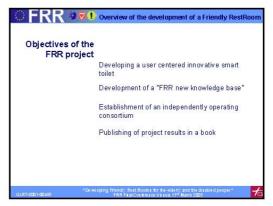


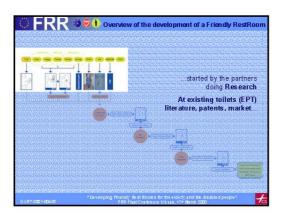


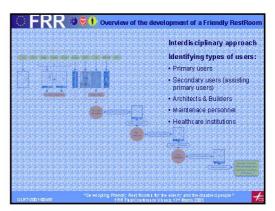




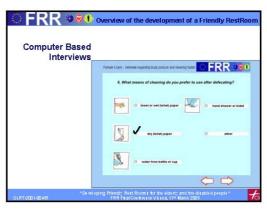




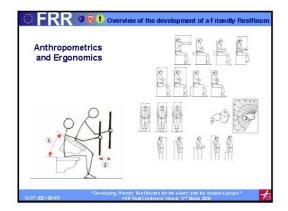


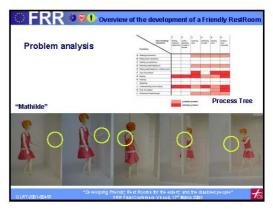


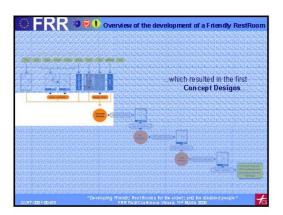


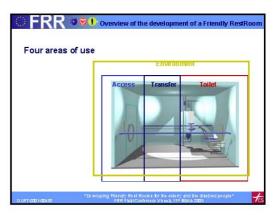


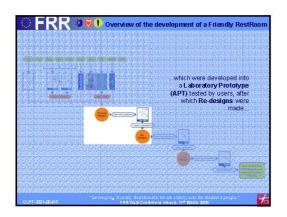


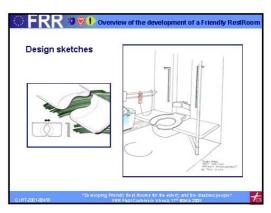




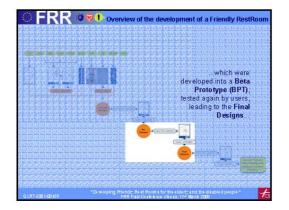




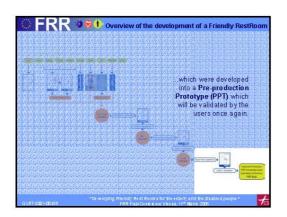




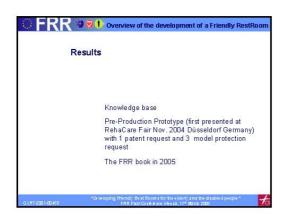
















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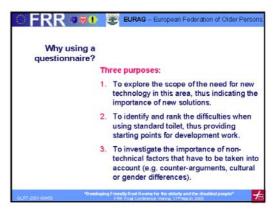
Results from User Needs Questionnaires

by Christian Dayé, EURAG.





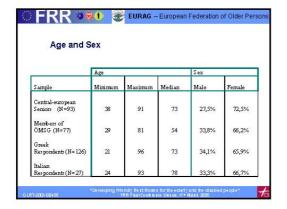


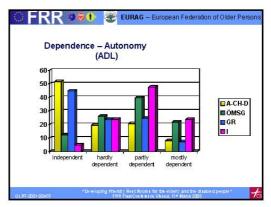




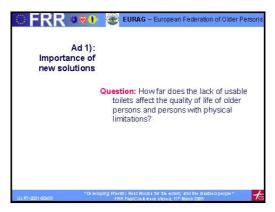


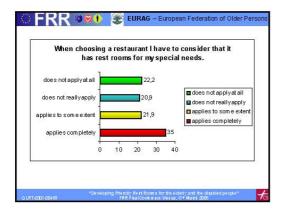


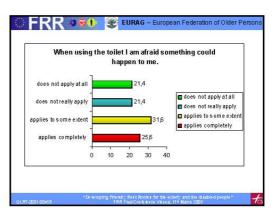




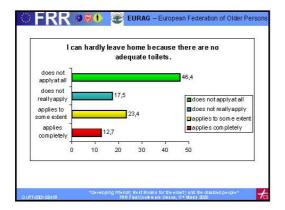






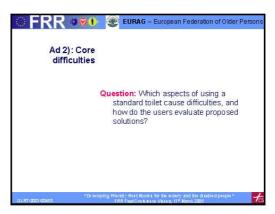


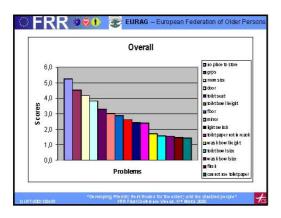


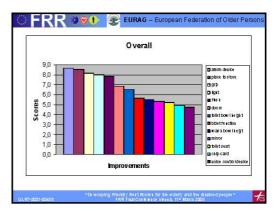




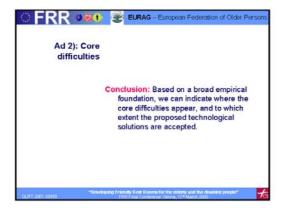


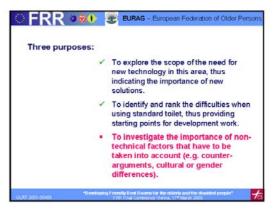


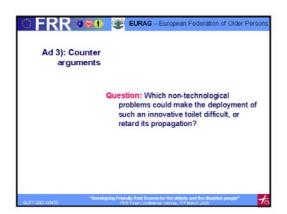


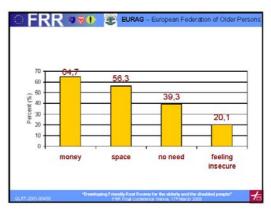


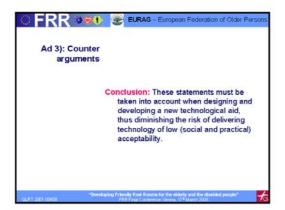














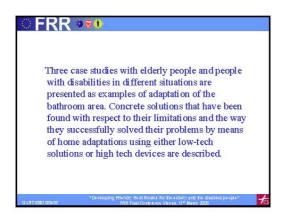
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Case Studies from Milan

by Terezina Menezello, SIVA; Milan.

























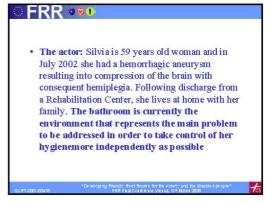


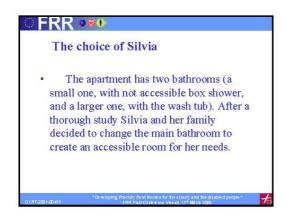








































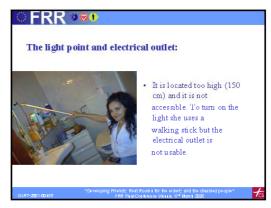














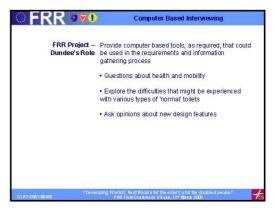


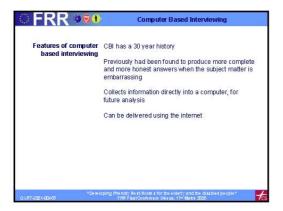


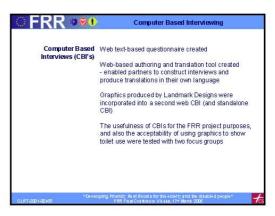
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CBI – Computer Based Interviews as a tool by Peter Gregor, University of Dundee.











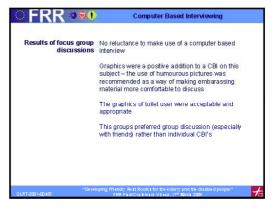


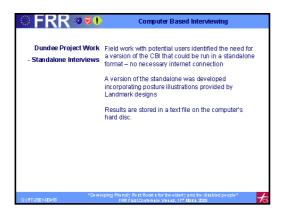










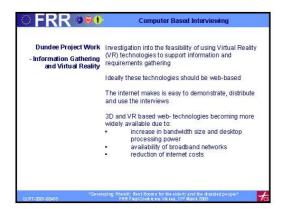


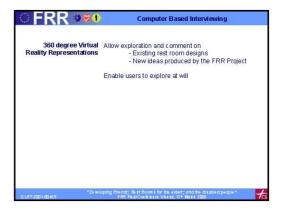




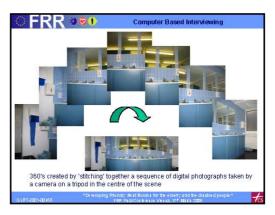




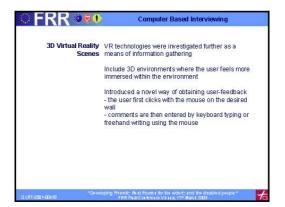




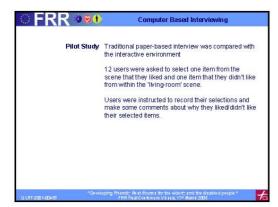


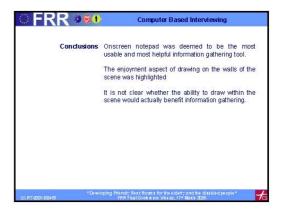


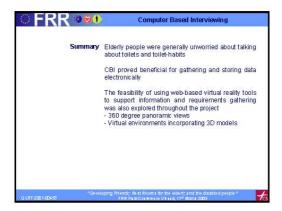
















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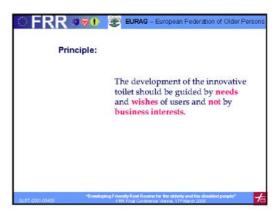
Purpose and Implementation of User Involvement

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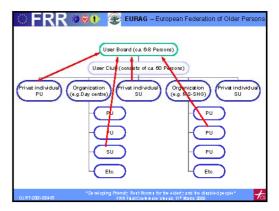








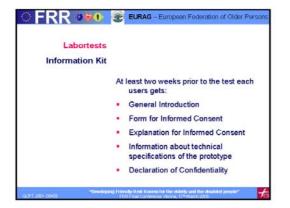


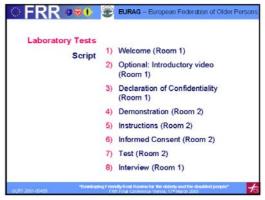


















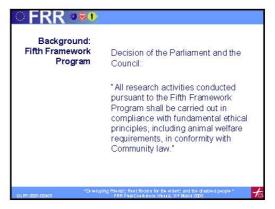


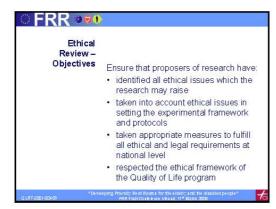
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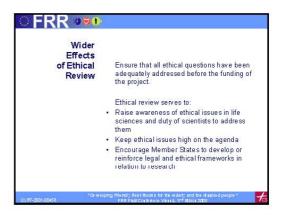
Ethics in FRR

by Prof. Ina Wagner / Marjo Rauhala, TU Vienna:







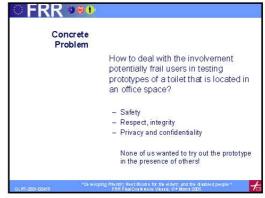


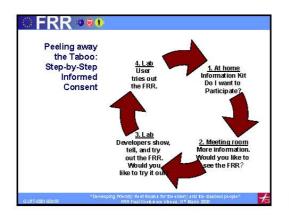


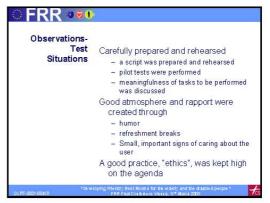


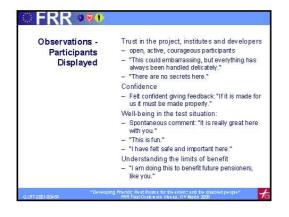


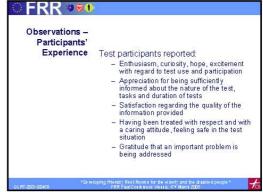




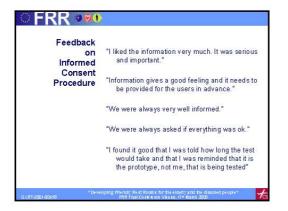


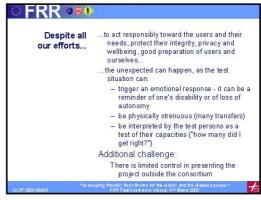






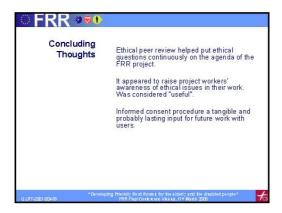
















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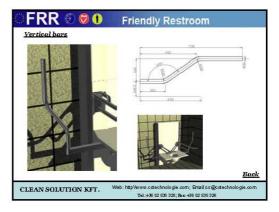
Engineering and Manufacturing the Final FRR Prototype according to the User Needs

by Attila Rist, CSO, Debrecen

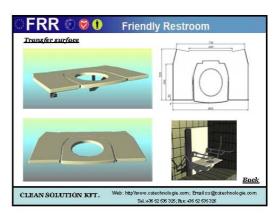




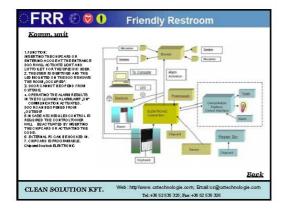






























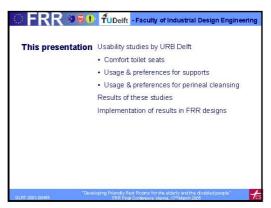


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Research in and Design of Toilet Supports and Means for Perineal Cleansing

by Sonja Buzink & Dries Dekker, TU Delft







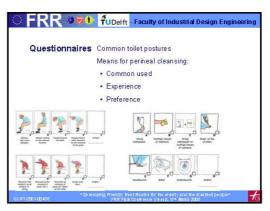


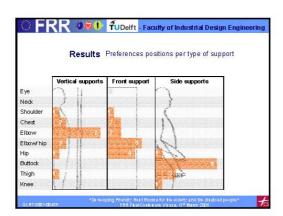


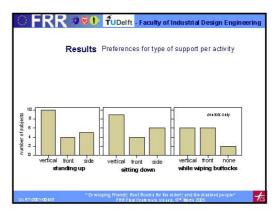


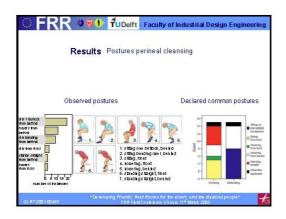


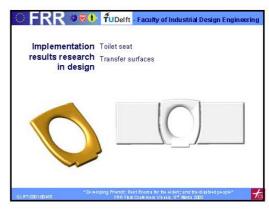




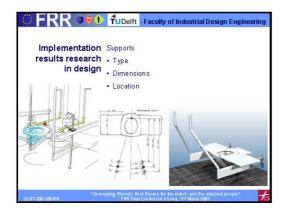






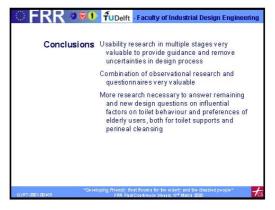














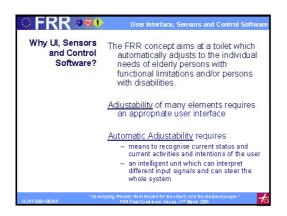
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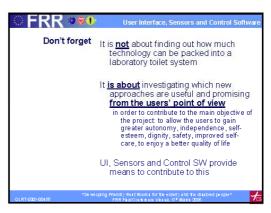
Design of Flexible User Interface Demonstrator, Control Software and Sensors

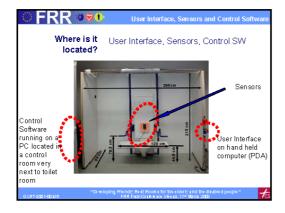
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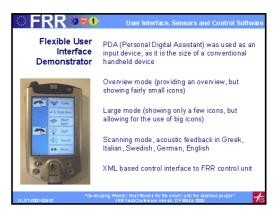






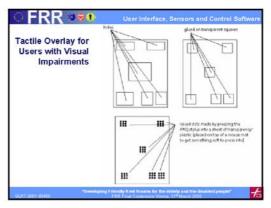


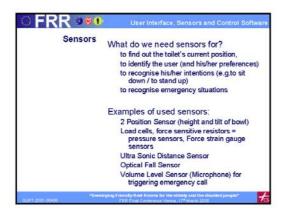






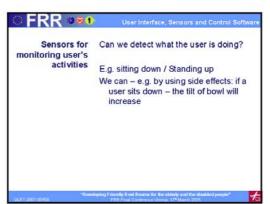




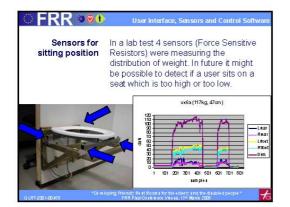






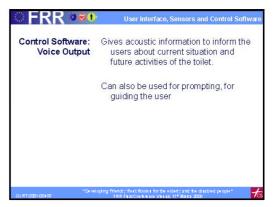




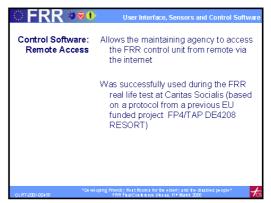




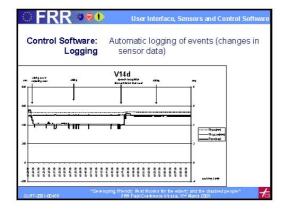










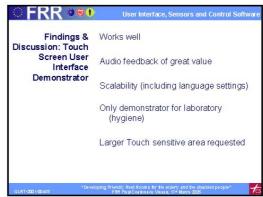








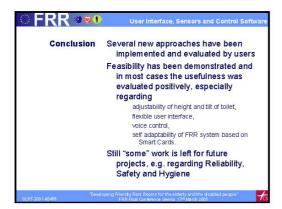














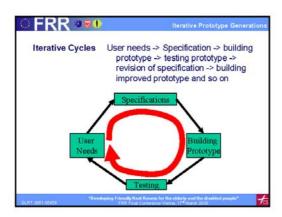
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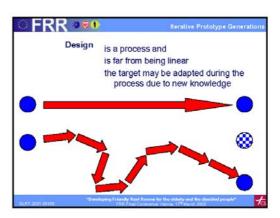
Overview about iterative prototype generations at the 5 test sites in Vienna, Lund, Athens, Delft and Milan

by Paul Panek, FORTEC, TU Vienna:

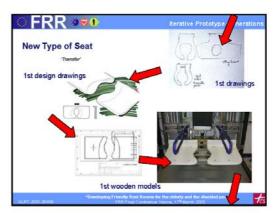








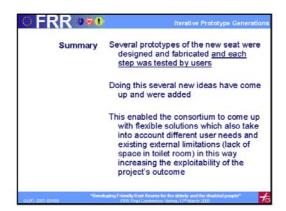


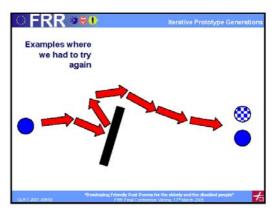


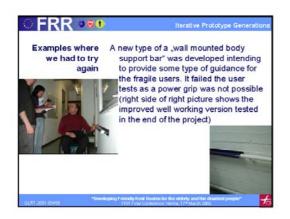


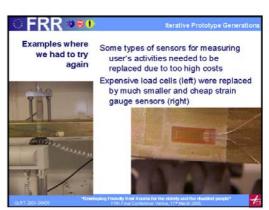








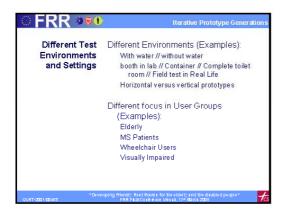


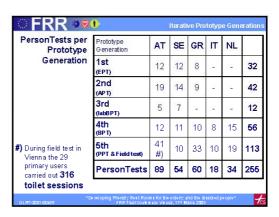


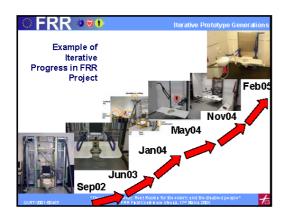












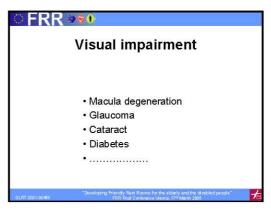


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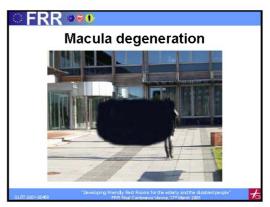
Toilet Design for Visually Impaired Persons

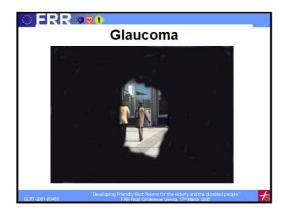
by Hakan Neveryd, CERTEC, Lund Univ.:





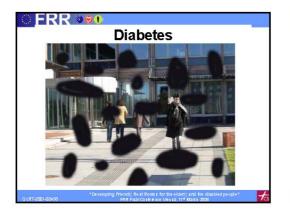


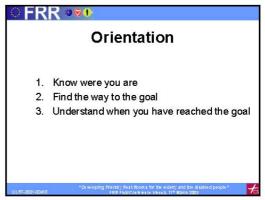




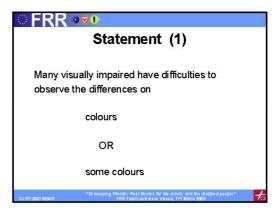










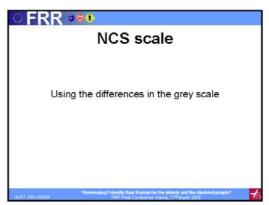


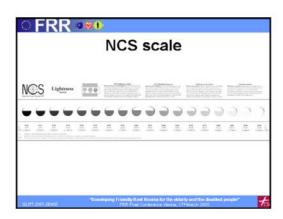


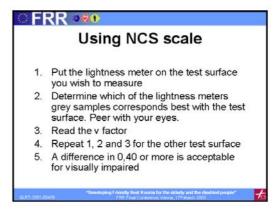














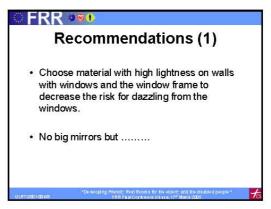














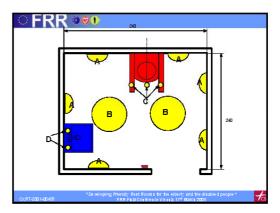








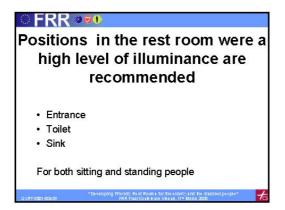


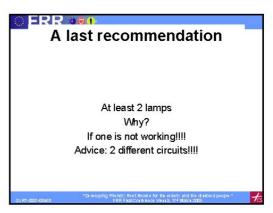












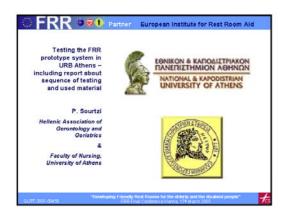




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Results from Athens - including report about sequence of testing and used material

by Panayota Sourtzi, HAGG & University of Athens:





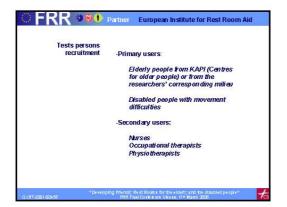


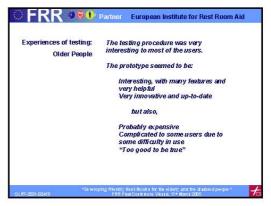


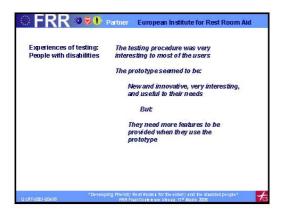


















The Final FRR Container final design

by Renate de Bruin, TU Delft:



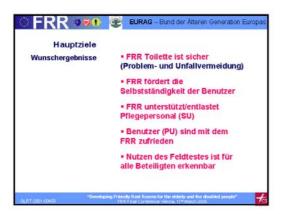
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Real life test at a day care centre, Results of the validation phase

by Nadia Gentile & Christian Dayé, EURAG:

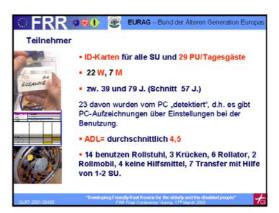






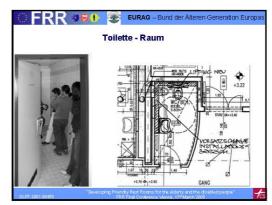












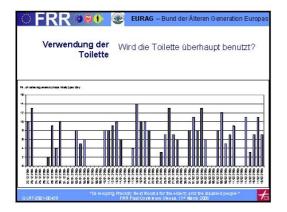


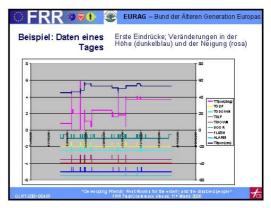


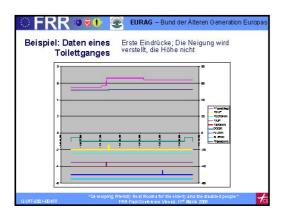




















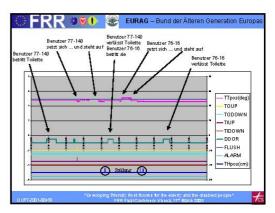






































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Voices of the users

by Robert Schlathau, MS Society Austria User Board – primary user and Ramona Rosenthal, Christine Pauli, Nurses from Caritas Socialis, Vienna (secondary users):

























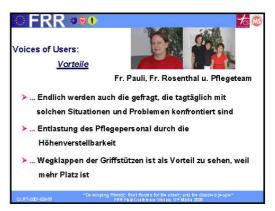
























The FRR Book

"Developing adaptable toilets of the future for disabled and elderly people"

The editors of the FRR Book are Prof. John Mantas and Prof. Johan Molenbroek. The book will be published in the summer of 2005 by IOS Press.

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Other scientific publications of the FRR

(in alphabetic order of the authors' names)

- Bruin, R. de, J. FM Molenbroek, T. Groothuizen, M. van Weeren. On the development of a friendly rest room, Proceedings of the INCLUDE conference 2003.
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- Buzink, S.N., D. Dekker, J.F.M. Molenbroek, R. de Bruin. **The toilet washbasin**; a redesign for elderly people, submitted.
- Buzink, S.N., J.F.M. Molenbroek, E.M. Haagsman, R. de Bruin, Th.J.J. Groothuizen. S'wing; a fall prevention product for the toilet environment. Development of a product to prevent falls in the toilet environment (in Dutch), Tijdschrift voor Ergonomie 29(5), October 2004, p4-11.
- Dayé, C., G. Dayé, G. Edelmayer, N. Gentile, H. Neveryd, P. Mayer, P. Panek, M. Rauhala, P. Sourtzi, and W. L. Zagler. The FRR Project Creating an Assistive Toilet, Program of 2nd Intern. Conf. on Interdisciplinary Gerontology, Dementia Concepts for the next Generation, 2004.
- Dekker, Dries, Sonja N. Buzink, Johan F.M. Molenbroek, Renate de Bruin. The
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 the use of a toilet for the elderly, submitted.
- Halkiotis, S., Botsis T, Liaskos J, Mantas J. Knowledge Management Approach in the FRR project, Proceedings of the Medical Informatics Europe Conference, 4-7 May 2003.
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- Liaskos, J., Tolika F., Sourtzi P, Mantas J. FRR-Shaping rest rooms for older people and persons with disabilities, Proceedings of the 8th National Conference of Gerontology and Geriatrics, Athens, 22-24 January 2004, p72c.



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- Neveryd. H., J. Molenbroek, P. Panek. FRR Friendly Rest Rooms for Elderly and Disabled Persons - A User Centered R&D Project, Proceedings of Gerontechnology Conference, November 9-12, vol 2(1), 2002, p94.
- Panek, P., C.Dayé, G. Edelmayer, N. Gentile, T. Groothuizen, P. Mayer, M. Rauhala, A. Rist, W. L. Zagler. Real Life Test with a Friendly Rest Room (FRR) Toilet Prototype in a Day Care Centre in Vienna An Interim Report, paper submitted for AAATE conference Lille 6-9 Sept 2005.
- Panek, P., G. Edelmayer, C. Magnusson, P. Mayer, J. FM Molenbroek, H. Neveryd, R. Schlathau, and W. L. Zagler. Investigations to develop a fully adjustable intelligent toilet for supporting old people and persons with disabilities the Friendly Rest Room (FRR)
- Panek, P., H. Neveryd, W.L. Zagler. The FRR Project: Developing a More User Friendly Rest Room, Proceedings of the AAATE Conference 2003, August 30-September 03, IOS Press, 2003, vol11, p678 – 682.
- Panek, P., N. Alm, C. Dayé, Edelmayer, N. Gentile, C. Magnusson, P. Mayer, J. FM Molenbroek, H. Neveryd, M. Rauhala, A. Rist, R. Schlathau, W.L. Zagler. Friendly Rest Room Project: A Toilet Prototype for Improving the Quality of Life of Old People and Persons with Disability, paper to be submitted for AAATE conference Lille 6-9 Sept 2005.
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 Their Caregivers, presentation at the European MS Platform in Dublin Ireland, 2-5 May 2002.
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 Developing the concept and the product, Presentation at 13th Alzheimer
 Europe Conf. and 3rd Hellenic National Alzheimer Disease and Related
 Disorders Conference, June 12-15, 2003.



Contact info FRR consortium partners

You can find more information about the frr consortium and project on:

www.frr-consortium.org



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http://www.io.tudelft.nl/research/ergonomics



http://www.fortec.tuwien.ac.at





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