DELIVERABLE

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D8.2

Archive of the ETNA webinars

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Organisation name of lead contractor for this deliverable:
FDCGO

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| Dissemination Level |  |
| P | Public | x |
| C | Confidential, only for members of the consortium and the Commission Services |  |
Revision History

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Statement of originality

This deliverable contains original unpublished work except where clearly indicated otherwise. Acknowledgement of previously published material and of the work of others has been made through appropriate citation, quotation or both.

Authors

Renzo Andrich, Sabrina Vincenti (FDCGO)
Lindsay Evett, David Brown (TNTU)
Chris Shaw, Warren Goodland (DLF)
Klaus Miesenberger, Andrea Petz (JKU)
Anna Evangelinou (DN)
Petra Winkelmann, Britta Lüssem (IWKOELN)
Eija Rojsko, Arto Joutsimäki (FAIDD)
Tuula Hurnasti (THL)
Hervé Gauthier (EASPD)
Jeanne Heijkers, Jessica Fuchs (HZ)
Cristina Rodriguez Porrero, Lucia Perez Castilla Alvarez (CEAPAT)
Eleni Halkia, Taxiarchis Tsouprounis (CERTH)
Yann Bertel Venezia (Hacavie)
Michel Hubert (FTB)
David Colven (ACE)
Thomas Lyhne (HMI)
John Gill (JOHN GILL)
Executive Summary

Web seminars, called “webinars”, are the key tool chosen to achieve the objectives of Work Package 8, linked to exchanging expertise among the TN partners, as a primary factor for participants’ involvement and therefore for the project’s success. On-line seminars are intended to provide information on partners organizations’ activities and key thoughts in the ICT AT area, in order to inspire discussion and prompt advancements in this field. Due to the big size of the Consortium, the partners’ short introductions at plenary meetings are not sufficient to get a detailed understanding of each partner’s activities and ideas, that’s why these on-line meetings were conceived.

Each webinar is moderated by a member of the FDCGO staff and is devoted to the detailed presentation of two partner organizations and activities, during which the audience has the opportunity to listen, to ask questions and to discuss the key issues presented.

The webinars are held by means of the Adobe Connect 8 Platform, chosen and administered by FDCGO at the first year of project after market surveys and attentive testing. This Platform gives the opportunity of voice interacting, presenting slides, videos and other materials, and has management tools to facilitate discussion.

During 2012 there were 8 educational webinars, according to the following calendar:

- February 8, 2012
- March 14, 2012
- April 11, 2012
- May 9, 2012
- June 13, 2012
- October 10, 2012
- November 14, 2012
- December 12, 2012

This deliverable explains the use of the webinar platform and illustrates the webinars held so far, including a collection of all the presentations delivered.

The first chapter (Methodology) describes the features of the Adobe Connect Platform and its potential.

The second chapter (The Webinars) summarizes the contents of each webinar, including a list of the partners who actually attended to each meeting.

The Annexes include all the presentations delivered (Annex 1-6).

The webinar recordings are available for download on the ETNA website, [www.etna-project.eu](http://www.etna-project.eu), within the “Documents” section.
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Methodology

The webinar modality, well tested in the course of 2011, still represented the main tool used for discussion and exchange within the Consortium.

The Adobe Connect 8 Platform, administered by FDCGO, allows to manage meetings and seminars on-line, involving a maximum of 200 people; it gives the opportunity of voice interacting, presenting slides, videos and sharing materials, and has management tools, such as chat and “status pods”, to facilitate discussion.

The connection to the platform doesn’t require participants to purchase any product, they just need to download a free plug-in and connect to the URL provided before any meeting.

![Picture 1- Example of the Adobe Connect 8 “virtual room”](image)

It is important to highlight that Adobe Connect 8 Platform has accessibility features that enable people with disabilities to use the Meeting functionality without a mouse.

As the training phase of all participants had already been concluded in the course of 2011, now partners are quite familiar with the tool and the related communication behavior, thus ensuring smooth communication and contents sharing, necessary for discussion.

During 2012 the first cycle of educational seminars was concluded, so that all partners succeeded in illustrating to the whole Consortium their projects and achievements in the sector. This deeper mutual knowledge, joint with steady communication, greatly contributed to strengthening the network, thus building the premises for further collaborations also outside the Consortium.

The webinars

In the course of 2012, 11 webinar meetings were held, carrying on an experience started at the beginning of the project with the first three educational seminars. As a consequence, the following list start with the Fourth ETNA webinar.
Fourth Webinar

The fourth educational webinar was held on Wednesday 8th February 2012, hosting the presentations of the Nottingham Trent University (Nottingham, UK) and another English partner, DLF (London, UK).

FDCGO Renzo Andrich
Sabrina Vincenti
Valerio Gower
IWKOELN Britta Lüssem
CNR Mauro Tavella
ACE David Colven
TECNALIA Igone Idigoras
CEAPAT Lucia Perez-Castilla Alvarez
AIAS Evert-jan Hoogerwerf
DLF Zaheed Panjwani
SU-DART Mats Lundälv
HZ Jeanne Heijkers
THL Tuula Hurnasti
EASPD Hervé Gauthier
CERTH Taxiarchis Tsaprounis
DN Anna Evangelinou
TNTU Lindsay Evett
FTB Michael Hubert

Fifth webinar

The fifth ETNA Webinar took place on-line on March 14, hosting the presentations of two partners: Johannes Kepler University- Institut Integriert Studieren (Linz, Austria) and Disability Now (Thessaloniki, Greece).

Participants

FDCGO Renzo Andrich
Sabrina Vincenti
Valerio Gower
IWKOELN Britta Lüssem
JKU Andrea Petz
CNR Mauro Tavella
TECNALIA Igone Idigoras
AIAS Evert-jan Hoogerwerf
TUKE Dusan Simsik
CERTH Taxiarchis Tsaprounis
Sixth webinar

The sixth ETNA Webinar was held on-line on April 11, hosting the presentations of two partners: IWKOELN – Institut der deutschen Wirtschaft Köln (Köln, Germany) and FAIDD– Finnish Association On Intellectual And Developmental Disabilities (Helsinki, Finland).

Participants

<table>
<thead>
<tr>
<th>FDCGO</th>
<th>Renzo Andrich</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sabrina Vincenti</td>
<td></td>
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<tr>
<td>IWKOELN</td>
<td>Petra Winkelmann</td>
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<td>CNR</td>
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<td>JOHN GILL</td>
<td>John Gill</td>
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<td>TUKE</td>
<td>Alena Galajdova</td>
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<tr>
<td>DLF</td>
<td>Warren Goodland (Ricky)</td>
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<td>Lindsay Evett</td>
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<td>Michael Hubert</td>
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Seventh webinar

The seventh ETNA Webinar was held on-line on May 9, hosting the presentations of two partners: THL - National Institute for Health and Welfare (Helsinki, Finland) and EASPD – European Association on Service Providers for Persons with Disabilities.

Participants
Eighth webinar

The eighth ETNA Webinar was held on-line on June 13, hosting the presentations of two partners: HZ – Zuyd University (Zuyd, The Netherlands) and CEAPAT – Centro Estatal de Autonomía Personal y Ayudas Técnicas (Madrid, Spain).

Participants

FDCGO  Renzo Andrich
Sabrina Vincenti
Valerio Gower
IWKOELN Britta Lüssem
ACE  David Colven
TECNALIA Igone Idigoras
JOHN GILL John Gill
CEAPAT Reyes Noya
AIAS  Evert-jan Hoogerwerf
DLF  Warren Goodland
HZ  Jeanne Heijkers
THL Tuula Hurnasti
EASPD Hervé Gauthier
CERTH Eleni Chalkia
DN  Anna Evangelinou
FAIDD Arto Joutsimäki
TNTU  Lindsay Evett
FTB  Michael Hubert
Ninth webinar

The ninth ETNA Webinar was held on-line on October 10, hosting the presentations of two partners: CERTH/ HIT – The Centre for Research and Technology Hellas (Thessaloniki, Greece) and HACA VIE (Lille, France).

Participants

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<th>Participants</th>
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<td>FTB</td>
<td>Michael Hubert</td>
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Tenth webinar

The Tenth ETNA Webinar was held on-line on November 14, hosting the presentations of two partners: FTB – Forschungsinstitut Technologie und Behinderung (Wetter/ Ruhr, Germany) and ACE Centre (Oxford, UK).

Participants
Eleventh webinar

The eleventh ETNA Webinar was held on-line on December 12, hosting the presentations of the last two partners: HMI – The National Board of Social Service (Odense, Denmark), and John Gill Technology (Iver, UK). The webinar concluded with updating about the project progress discussed by the project leader (FDCGO).

Participants

FDCGO  Renzo Andrich
Sabrina Vincenti
Valerio Gower
Lucia Pigini
Claudia Salatino

IWKOELN  Britta Lüssem
CNR  Mauro Tavella
HMI  Mary Petersen
JKU  Andrea Petz
ACE  David Colven
TECNALIA  Igone Idigoras
JOHN GILL  John Gill
DLF  Warren Goodland
SU-DART  Mats Lundälv
HZ  Jeanne Heijkers
THL  Tuula Hurnasti
CERTH  Taxiarchis Tsaprounis
DN  Anna Evangelinou
FAIDD  Arto Joutsimäki
FTB  Michael Hubert

ICT PSP – ETNA project (270746)  Deliverable D8.2, 15/02/2013
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<td>FTB</td>
<td>Michael Hubert</td>
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ANNEX 1
Interactive Systems for People with Disabilities
Lindsay Evett and David Brown
Interactive Systems Research Group (ISRG)
Computing and Technology Team
Nottingham Trent University
UK

Introduction
- The Interactive Systems Research Group (ISRG) works within the Computing and Technology Team at Nottingham Trent University (NTU)
- Mix of 49 academics, research associates, software engineers, PhD and project students
- Promotes a Design for All ethos
- Includes target users in design process as far as possible; User Sensitive Inclusive Design
- Evaluate effectiveness
- Ready made and custom built interaction devices, focused on cheap mainstream technology

Taxonomy for AT
We have started to classify AT by use rather than form:
- Technology uses to train or practise
- Technology uses to assist learning
- Technology uses to enable learning

Key Areas of Development in Current AT Research
- User involvement: A significant number of projects have acknowledged the need to involve users in the research which relates to them and their needs.
- Mobile mainstream devices: The rapid deployment and popular acceptance of mobile phones, particularly smartphone and other personal digital assistants, has led to an understandable demand for digital assistive technologies to be mediated through these devices.
- Usability of assistive technology use: Assistive technologies have become much more visible, particularly as a result of the move of speech synthesis, speech recognition and graphic symbols into mainstream and inclusive settings.
- Interaction and collaboration: Much research focuses on interaction between people with disabilities and, importantly, with those not identified as having disabilities.
- Developing interfaces and technologies: One of the few trends driven by technological advances rather than changing attitudes is the rapid development in alternative interfaces such as brain control, gesture control and eye-gaze, and robotics.
- Inclusive Design: Inclusive Design principles include the choosing of devices (for example Smart phones) and software tools (for example games engines such as Unreal Development Kit) that users would choose to use themselves

Games based Learning (GBL) for People with Intellectual and Sensory Disability
High prevalence of intellectual disability (ID) in population, need to teach relevant skills:
- Serious Games: take charge of own learning, enjoyable repetition, gradual increase in level of challenge
- Work at own pace, make mistakes
- Serious Games give access to educational opportunities and experiences, engagement with knowledge and people
- Active involvement and control

Can participating in Games Based Learning improve maths skills in people with ID?
- Maths is a functional skill – Working Memory used to hold and manipulate information
- Heterogeneous population
- Intervention – Cheese Factory Control – Hidden Shapes Game
- 16 key stage 2-5 students with ID
- Study design: matched pairs - 8 intervention, 8 control
- Five 20 minute weekly sessions
Evaluation study: Mathematical Skills

- Can understanding of fractions, percentages and decimals in students with ID be improved?
- Baseline Measures to test understanding of underlying language of fractions and whole-part concepts
- BT1 – shape recognition test
- BT2 – fraction test
- Intervention group better at both tests
- Working Memory improved?

Stroke Rehabilitation - rationale

- Stroke currently affects 15 million people annually worldwide
- Most current stroke rehabilitation systems employ relatively sophisticated and/or expensive hardware and software
- Can the benefits obtained from these systems be obtained with less sophisticated, affordable systems?
- Rehabilitation potential of commonly available computer games?
- Commercially available platforms offer important advantages – mass acceptability, direct feedback
- Most importantly, affordable for unrestricted home use

Stroke Rehabilitation: 1. Infrared Glove, 2. Markerless Motion Capture

1. Infrared glove uses WiiMotes
2. ‘Markerless’ Motion Capture Systems remove disadvantages of wearable systems; ours uses thermal tracking – skin colour histogram and skin temperature threshold
- Games developed to elicit required movements: Sponge Ball, Space Race, Balloon Pop
- Ongoing evaluation via randomized control trials with intervention and control groups

Input Modalities

- Many people with learning difficulties have motor difficulties
- Difficulties include physical ability, cognitive understanding, device construction, design of Virtual Environments
- EMOTIV EPOC – brain interface
- Train to associate thought patterns with actions
- Work with Dance 4 – interactive light “dances”

Current Projects

- Novel interfaces, including EPOC, to Dasher, for children with severe motor disabilities
- iPhone controlled (speech, touch, shaking) and mobile robot as learning aid for children with cognitive disabilities
- Location-based services, route learning and navigational support for wide range of disabilities

Location Based Services for People with Disabilities

- Travel skills and confidence to learn new routes are core skills for leading independent lives
- Showing users their exact location relative to where they need to get to can help people who struggle with spatial skills
- Oliver and Burnett – route guidance systems suppress cognitive map development
- Lindstrom – necessary for people with disabilities to assimilate a mental map, and should be built in a mobile environment
- Lindstrom – users with disabilities stress the importance of being located should they no longer be able to orientate themselves
## Location Based Services with GBL

- Our solution is Route Mate, implemented for Android OS, as an accessible Location Based Services learning tool combined with GBL
- Three phases – plan, practice and usage modes
- In depth usability study and reconsideration of important design guidelines by Grantham (2010)
- Redesign for RECALL project incorporates recommendations from Grantham – streamline for more logical app and reduce cognitive load for independent use; make accessible for wider range of disabilities
- In early stages – heavily scaffolded and akin to cognitive apprenticeship, later on used more independently

## The Virtual Cane

- External frames of reference and map based strategies are more efficient and flexible than egocentric routes
- Virtual Environments and games controllers to support development of cognitive maps in people who are blind
- Wiimote and Wi nunchuk, interaction via moving and pointing with feedback.
- Feedback functionality – auditory, visual and haptic feedback, ambient sonar
- Can explore whole space at leisure
- Many virtual environments becoming available

## The Virtual Cane: Evaluation

- Evaluation in real environment with three blind testers. Explore virtual environment, describe space and find objects in the real world
- Subjects A and E described environment spatially. H struggled with virtual environment. All found real objects easily
- Results support the idea that the system can support the construction of spatial maps and navigational strategies
- Continuing research – improved controls and feedback; compare devices

## AEGIS Prototypes

- The Virtual Cane (VC) designed for, but not restricted to, indoors; outdoors can use GPS and map-based apps
- There are a number of such apps which are accessible
- As part of AEGIS we conducted usability evaluations of Haptic Maps, and TouchOver Map and NavPoint (HaptiMap project)
- RECALL and VC projects based on proposal that cognitive maps (Global Reference Frames, see Frankenstein et al, 2011) and spatial strategies more effective for independent travel that route guidance (Hill et al, 1993)
- AEGIS and HaptiMap prototypes and other apps support navigation; AEGIS and HaptiMap apps support Cognitive maps

## Spatial mental models

- External frames of reference and map based strategies more efficient and flexible – easier to remember, can take alternative routes, shortcuts, change destinations – they offer a more complete spatial representation (Martinsen et al, 2007)
- Active exploration of virtual worlds and accessible maps to support development of map-based strategies and spatial mental models (Tversky, 1993) to facilitate independent navigational skills
- Can use at leisure (unlike real world support)

## Haptic RIA Maps

- Haptic RIA maps – partially sighted/blind users explore web-based street map using a force feedback/haptic device
- Haptic feedback plus auditory cues (such as street names) and a sonification mechanism which provides distance information
- Can this system provide information equivalent to that provided to sighted users by conventional 2D maps?
Haptic RIA Maps: Issues for Iterative development from AEGIS user evaluation

Uses Open Street Maps, open source, could be easily available and very usable but: Phantom expensive, users struggle with Falcon (Brown et al, 2011)
- Need better, more affordable device. MS Touch Explorer haptic mouse? Would give better mapping between device action and map response – investigating
- Application continues to be developed in response to feedback from AEGIS user trials

Touch Over maps
- HaptiMap project (2011) demonstrator
- Touch-based, user actions have a direct, reliable, relationship with maps
- Physical edges provide simple reference points
- Two blind users found it easy to use, could reproduce the map
- Blind user with residual vision found areas with patchy feedback, frustrating and poor info. (can use Google maps)
- Tablet and mobile

Point Nav
- The PointNav HaptiMap prototype application allows scanning an area for points of interest, selecting one of them, finding out more about this point and being guided to it.
- PointNav is implemented on Android OS, provides speech and vibratory feedback. The application allows loading of points of interest lists
- Set reference points from study of map?

Range of Apps

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<th>App</th>
<th>Platform</th>
<th>Accessible?</th>
<th>Usable?</th>
<th>Global/local</th>
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<tbody>
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<td>iPhone Maps</td>
<td>Apple OS</td>
<td>Yes (route, hours)</td>
<td>Yes</td>
<td>Both – global not accessible</td>
</tr>
<tr>
<td>Navigation</td>
<td>Android</td>
<td>Yes</td>
<td>Yes</td>
<td>Both – global not accessible</td>
</tr>
<tr>
<td>Where am I?</td>
<td>Android</td>
<td>Yes</td>
<td>No</td>
<td>Local – BUT inaccurate</td>
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<td>Trekker</td>
<td>Windows CE</td>
<td>Yes (not for all – no visual)</td>
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<td>Android</td>
<td>Yes (not set up)</td>
<td>Yes</td>
<td>Can be Global</td>
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<td>TouchOver Map</td>
<td>Android</td>
<td>Yes (not set up)</td>
<td>Yes</td>
<td>Global</td>
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<tr>
<td>Haptic Maps</td>
<td>Java, web based</td>
<td>Yes</td>
<td>Not with Falcon</td>
<td>Global, needs usable interaction device</td>
</tr>
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</table>

Evaluate Spatial Mental Models

Does the solution develop spatial relationships, allow multiple perspectives, sufficient for actual route finding? Possible tasks:
1. Recreate map – verbal description or model
2. Describe routes from A to B and from C to B (taking different perspectives)
3. Real tasks in areas of a known route:
   - demonstrate ability to deal with obstacles
   - extend known route
   - create new route

Can Apps Support Independent Travel for People who are Blind?
- New address, no routes, no chance of trainers
- Learnt route to get there through Google maps, Google street view, Trekker
- Use range of apps, with global and local information to support and supplement
- Extend route(s), new routes?
- Development of cognitive map? Is having a cognitive map better than routes alone?
Conclusions

- User Sensitive Inclusive Design with disabled co-researchers, designing AT using technology that doesn't mark out people as 'other', cheap, easily available, mainstream
- Addresses the abandonment of AT
- GBL, novel interfaces, Location Based Services, navigation support
- Accessibility, inclusion features often better for all
- Situational disability
- NB With new digital competencies safe guarding is even more important

Acknowledgements

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Sources

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Sources (contd. 1)


Sources (contd. 2)

Lahav O. & Miedaour O (2008), Haptic feedback support for cognitive mapping of unknown spaces by people who are blind, int. J. Human-Computer Studies, 66, pp. 23-37

Contact Details

Dr Lindsay Evett, Prof. David J. Brown and the Interactive Systems Research Group Computing and Technology Team NTU, UK Tel: +44 115 848 8359 lindsay.evett@ntu.ac.uk Tel: +44 115 848 8350 david.brown@ntu.ac.uk

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User Centred Design (UCD)

- User sensitive inclusive design (USID) combines established guidelines on User Centred Design with contemporary HCI and product design research
- Six stage, iterative, design process
- Value of users as Co-researchers
- Addresses AT abandonment
- Used for the design and development of many applications – e.g. Virtual Cane, Prison Guide, Serious Games, Location Based Services, for users with a wide range of disabilities
- USERfit methodology
ANNEX 2
Solutions for Independent Living

ETNA webinar

8th February 2012

About the DLF

• DLF is the leading UK national provider of impartial advice, information and training on equipment for daily living/assistive technology (AT)
• DLF’s offices and equipment demonstration centre are located in North West London near Paddington
• DLF has over 40 years experience
• DLF reaches hundreds of thousands of people each year, through its websites, helpline and equipment demonstration centre

DLF Database

• Over 12,000 current products, plus an archive of past products
• Over 33,000 product supplier records
• Local retailers
• National organisations

Website intended for health professionals
• Comprehensive, impartial information
  • 12,000+ products
  • 1,700+ national suppliers
• Features
  • Users can create reports listing specific products, suppliers and organisations
  • Compare products side by side
  • Dimension tables
  • MHRA alerts are added to products as they are received
  • Product comments for users to share their experiences
  • Users can browse using ISO9999
1. Do you experience difficulty when stepping in or out of your bath?

**Dangerous bathboards - will they fit and could you use one?**

- Bath boards make it easier to get in and out of the bath. They are usually made from plastic or rubber, which makes them non-slip, and can be fixed to the side of the bath or permanently fixed to the floor. They are usually about 40 cm wide and have a handrail at the back. If a handrail is not fitted, the board should be placed level with your waist and the handrail should be level with your shoulder height. The board should be wide enough to support your weight.

Before using a bath board, ensure that it will fit your bath. If you have a bath with a fixed handrail, you will need to place the board level with your waist and the handrail. If you have a bath with a movable handrail, you will need to place the board level with your shoulder height. The board should be wide enough to support your weight.

**Related products**

- Bath boards for users with reduced mobility
- Non-slip bath mats

2. Do you have difficulty standing from sitting, when in the bath?

**Bath mats - sitting legs over bath**

- Bath mats are fixed to the floor of the bath and are usually made from rubber. They are usually about 40 cm wide and have a non-slip surface. The bath mat should be wide enough to support your weight and should be placed level with your waist. The mat should be fixed to the floor with suction cups or with a non-slip adhesive.

- Before using a bath mat, ensure that it will fit your bath. If you have a bath with a fixed handrail, you will need to place the mat level with your waist and the handrail. If you have a bath with a movable handrail, you will need to place the mat level with your shoulder height. The mat should be wide enough to support your weight.

**Related products**

- Bath mats for users with reduced mobility
- Non-slip bath mats

3. The water temperature in my bath or basin can become too hot

- **Hot water**

  Hot water can damage the skin and cause burns. It is important to make sure that the water temperature is not too hot before you get into the bath. The water temperature should be between 40 and 45 degrees Celsius. If you have a bath with a fixed handrail, you will need to place the water temperature control valve level with your waist and the handrail. If you have a bath with a movable handrail, you will need to place the water temperature control valve level with your shoulder height. The valve should be wide enough to support your weight.

- Before using a bath, ensure that the water temperature is not too hot. You can check the water temperature by placing your hand in the water. If it is too hot, you can add cold water to the bath to reduce the temperature.

**Related products**

- Water temperature and controls

4. The water temperature in my bath or basin can become too cold

- **Cold water**

  Cold water can cause shock to the body and can be dangerous for people with certain health conditions. It is important to make sure that the water temperature is not too cold before you get into the bath. The water temperature should be between 40 and 45 degrees Celsius. If you have a bath with a fixed handrail, you will need to place the water temperature control valve level with your waist and the handrail. If you have a bath with a movable handrail, you will need to place the water temperature control valve level with your shoulder height. The valve should be wide enough to support your weight.

- Before using a bath, ensure that the water temperature is not too cold. You can check the water temperature by placing your hand in the water. If it is too cold, you can add warm water to the bath to raise the temperature.

**Related products**

- Water temperature and controls

---

**AskSARA helps you find useful advice and products that make daily living easier**

**Your health**

- Products and services for my health
- Advice and information on living with... (continue)

**Your home**

- Products and services for my home
- Advice and information on living with... (continue)

**Daily activities**

- Products and services for my daily activities
- Advice and information on living with... (continue)
Public website
Includes sections on
- Bathroom
- Toileting
- Kitchen & Household
- Bedroom
- Chairs
- Stairs
- Telecare
- Children’s equipment
Suppliers who use the self service system can:

- Edit their company address and contact person details
- Add or amend the services they provide

Existing Product Information.
Suppliers can:

- Amend the product name, price, availability
- Add a manufacturer description (only available to suppliers listed as the product’s manufacturer)
- Add a product-specific web address, user manual and/or video
- Add an image for the product

New Product Information.
Suppliers can:

- Search and link themselves to existing products on the database
- Add information on new products sold by the supplier that are not already listed in DLF Data

DH Information Standard

- The Information Standard is a certification scheme for health and social care information producers in the UK
- Scheme members follow consistent rigorous procedures when producing information for the public and are audited each year to ensure compliance
- DLF is a founder member of the DH Information Standard
- The Information Standard enables people to make decisions with confidence because it offers reassurance that health and social care information carrying the mark is from a reliable source

Helpline

- Approximately 1,800 calls per month
- Helpline staff give advice over the phone and post factsheets and reports from DLF Data
- Currently some of the main themes calls are received about include:
  - Equipment hire
  - Personal alarms
  - Mobility equipment

Training

DLF run a range of short training courses throughout the UK including:

- Introduction to Moving & Handling for Carers
- Moving & Handling for Newly Qualified Therapists
- Moving & Handling Update For Therapists
- Hoist and Sling Assessment & Problem Solving
- Grabrails
- Reablement
- Telecare training
- Working with Dementia
For further information please visit our websites:

www.dlf.org.uk
www.askara.org.uk
www.livingmadeeasy.org.uk
www.dlf-data.org.uk

Thank you
ANNEX 3
**University of Linz**

- Named after mathematician and astronomer Johannes Kepler that lived & worked in Linz
- "Young" University
  - Founded in 1966 with 600 students (Academy of Social and Economic Sciences)
  - Faculty of Technical & Natural Sciences (est. 1969)
  - Faculty of Law (est. 1975)
  - Recognition as University

**JKU Today**

- Unique campus setting at the northeastern outskirts of Linz (capital of Upper Austria)
- 25,000 students (including distance learners)
- 2500 Faculty & Staff
- 118 Institutes at 3 faculties
- 59 Bachelor / Master & Doctorate programs
- Strong embedding of industry and business (external partnerships as well as working on site)

**Institute Integriert Studieren**

- Founded 1991 as "Endeavour Computer Science for the Blind"
- Installed as department "Computer Science for the Blind" (at the institute for computer science)
- Opening up Austria-wide to i3s3 "Interuniversity institute for information systems supporting print disabled people"
- 2002: Institute Integriert Studieren

**Institute Integriert Studieren**

- 12 people
  - 2 Head & Deputy Head
  - 2 Administration
  - 7 Researchers
  - 1 vocational trainee
  - 5 paid by university, 7 from research funds

---

**Linz, Upper Austria**

- 3rd largest city in Austria (~200,000 inhabitants)
- Capital of Upper Austria (county)
- Founded by the Romans ("Lentia" 1st mentioned 799)
- Industrial, modern city
- Vibrant modern scene of music, art, design & architecture (e.g. Ars Electronica Festival)
- 4 universities / colleges

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- Strong embedding of industry and business (external partnerships as well as working on site)
Teaching

- University teaching commitments
- Courses open for all studies
- Focus on „(e)-Accessibility” and „Design for All”
- Results from research activities enrich teaching
- External teaching commitments (examples)
  - Teachers Education (incl. education & special)
  - Deaf & Hard of Hearing, Blind & Partially Sighted
  - School Counsellers / Disability Counsellors
  - „Austrian Accessibility Academy”

Research

- More than 60 EU-intl’research projects (partner & Co-ordinator)
- Alternative concepts of knowledge representation
- Principles of the multimodal man-machine-interaction
- Electronic libraries and electronic publishing
- Accessible web design
- Accessible software development
- Access to graphical user interfaces
- Design for All of hard- & software
- IT/AT aspects of inclusive teaching
- Speech recognition applications for PwD
- Ambient Assisted Living
- Ambient Assistive Technologies

Service

- Service for university concerning disability (teaching & administration) in terms of support / counseling
- Service for Students with disabilities
  - 60 students with a formal stated disability
  - All kinds of disabilities & chronic illnesses
  - Support with administration, materials & exams

Interested?

- http://www.jku.at/iis
- integriert-studieren@jku.at
- ICCHP 2012 July 9 – 13, 2012, University of Linz

Questions?

Well... we think that’s about it...
We want to thank you for allowing us to speak to you today.
If you have any further questions or want additional information, please feel free to contact us by eMail.
Thank you.
Contact

- http://www.jku.at/iis
- integriert-studieren@jku.at
- ICCHP 2012 July 9 – 13, 2012, University of Linz:

http://www.icchp.org

with side events:
- 700 researchers
- 60 countries
- 250 lectures
- ETNA workshop
ANNEX 4
Disability NOW magazine & Disabled.GR

Disability NOW
Athens & Thessaloniki
Url: http://www.disabled.gr
Email: admin@disabled.gr

Disability NOW: the organisation

- 1993: established as a Non-Profit supportive organisation (NGO)
- 1985: launch of Disabled.GR
- 2011: New headquarters in Athens
- Managed by people with mobility disabilities, mainly spinal cord injuries
- Aims:
  - Production & distribution of available disability related information
  - Peer support & counseling through telephone, email, online disability community and forum, newsletters and the print magazine.

Disability NOW: Initiatives

- Publication of the printed magazine “Disability NOW”: free of charge to 15,000 Greek subscribers with mobility disabilities
- Operation of www.DISABLED.GR: more than 170,000 visits per month; the largest free of charge Digital Library in Greece with thousands of titles of books and articles on individuals with disabilities, special education, independent living, rehabilitation, etc.
- Organization of Autonomia EXPO in Athens, since 2006.
- The electronic Disability NOW newsletter: distributed through email twice/week to 50,000 electronic subscribers.
- The Disability Community and its Forum and chat operation.
- The Disability News Portal (http://news.disabled.gr): republishes every day all the latest news concerning the disabilities, and collects and distributes in a totally accessible format in Greek and in English.
- Specialized Peer Counselling Services for:
  - Employment, entrepreneurship and job placement.
  - Advocacy and self-advocacy.
  - The creative usage of the internet and of the adaptive technologies.
- Participation in National and European Union programs in the fields of disability, independent living, personal care assistance, peer support adaptive technologies, universal design.

Disability NOW Magazine

- Published bimonthly (printed + digital)
- 132 colored pages
- 15,000 subscribers with mobility disabilities
- Supported by 550 disability-related enterprises

Disabled.GR

www.DISABLED.GR

- 170,000 visits/month
- 300,000 pages read/month
- > 10,000 forum users
- http://news.disabled.gr
Autonomia EXPO @ Athens

- www.AUTONOMIAEXPO.org
- 3 days exhibition in Athens
- > 4,000 visitors
- Disability products & services
- website: www.autonomiaexpo.org
- next one in May 2013

Disability NOW in Networks

- European Network on Independent Living (ENIL): http://enil.eu
- European Network for Accessible Tourism (ENAT): www.accessibletourism.org
- Social Employers Network (SEN): www.disadvantaged-employment.eu
- European Design for all eAccessibility Network (EDeAN): http://www.edean.org

Disability in Crisis

- Bulk of austerity measures 2010-2012:
  - August 2010-February 2011: security bodies postpone payments for disability provisions in kind (Law 3867/2010)
  - Reductions in the hours approved for community rehabilitation, e.g. physiotherapy, speech therapy, etc
  - May 2011: horizontal 50% cut across cost ceilings for rehabilitation aids and equipment (KKA circular 37/2011)
  - September 2011: introducing 30% to 50% cuts on medical supplies and specialized health and community based services.
  - August 2011: urgent tax toll for 2011 at 2% on income; exclusion people completely blind & people with more than 80% physical disability.
  - 2012: urgent property tax up to 10€ per sq.m. to be paid annually; similarly only people completely blind & people with more than 80% disability will pay the reduced rate at 0.5€ per sq.m.

Contact Disability NOW

“Disability is the mother of every discovery”
quoting Nikos Voulgaropoulos, founder of Disability NOW

Disability NOW, Non Profit Supportive Organisation
Athens, Greece
Anna Evangelinou
Tel: (0030) 2106998024, Fax: (0030) 2106916932
Email: admin@disabled.gr
Url: http://www.disabled.gr
skype: anna.evangelinou
twitter: @Disability_NOW
Who are we

Cologne Institute for Economic Research

Mission:
...to convey to the public the joint views and goals of German business supported by scientific research

- The leading private institute for economic research in Germany
- Business and employers' associations are members
- Non-profit organisation
- Staff: more than 350 persons

Areas of competence

- Institutional economics
- Human capital and innovation
- School and university education
- Vocational training
- Labour market and personnel management
- Vocational training and participation REHADAT

Research activities on the subjects of integration and participation by people with disabilities in professional life and education

- How can employers be made aware of working life and disability issues?
- How can orientation be facilitated in the topic field?
- Where are information gaps to be found?
- How can the information be structured and processed for different parties?
- Implementation in practice-specific offers
- Providing information, creating transparency, integration and standardisation at a national and international level

The German Information System REHADAT - Petra Winkelmann, Britta Lüssem

ICT PSP – ETNA project (270746)

Deliverable D8.2 – 15/02/2013

Annex 5 pg 1/6
Why we are

Legislative framework: Book IX of the Social Code

- provides a broad range of integration assistance for severely disabled people
- enables payments to employers to promote recruitment and employment of people with severe disabilities (e.g. workplace adaptation)
- Compensatory levy

Employers with a workforce of 20 or more are required to ensure that at least five percent of their workforce is made up of severely disabled people. Otherwise they pay 105 to 260 Euros.

Reasons for creating an information system

- Complex structured social system
- Lack of information on companies, professionals and people affected by disabilities
- Central information platform for vocational rehabilitation

Funding

- Contributions from the institute
- Supported by the German Federal Ministry of Labour and Social Affairs

REHADAT- Information System

- Central Information
- 8 databases and portals
- Comprehensive and neutral
- Prepared for a number of different target groups

REHADAT – Information System

- REHADAT-Elan is a software that helps employers to calculate their quota and the amount they have to pay
- Employers have to send a formal declaration about their employment of disabled persons to the Employment Agency
- The forms are filled in automatically and can be printed or sent via internet to the Employment Agency

International projects and networks

- Market transparency (23,000 product descriptions)
- Providing information about functioning, financing, research activities, test reports and other publications, jurisdictions, addresses and workplace related issues
- All information is available on one platform, standardised, comparable
- Europe-wide access to information

Target groups

- End users, company physicians, medical doctors, consulting engineers, governing bodies and agencies, researchers, manufacturers and suppliers
The German Assistive Devices Provision System

- Framework is the Social Code V and IX
- Term “Assistive Devices” is not clearly defined
- Depending on rehabilitation aims and personal situation different agencies are responsible
  - Health insurance for private use and at school
  - Social welfare office
  - Statutory accident insurance
  - Pension insurance for AD in work context (employees who have insurance more than 15 years)
  - Employment office for AD in work context
  - Integration office for AD in work context

- Statutory Health Insurance - most relevant agency for provision of AD
- 90% of the German population are members
- AD provision is benefits-in-kind principle
- Single case decisions
- Physicians play a key role

Assistive Products at the workplace are regulated in the Social Code IX

- Ministry of Labour and Social Affairs is responsible
- Money comes from the compensatory levy
- Consulting engineers make the decisions
The German Assistive Devices Provision System

Problems:

- Money comes from different agencies
- Different experts are involved in the process
- None of the experts has an education related to AD
- The experts only know one sector
- Access to information is difficult for end users
  - Complicated
  - Special language
- Transfer from problem to function of AD is difficult

Thank you for your attention:

www.rehadat.de

Petra Winkelmann
winkelmann@iwkoeln.de

Britta Lüssem
luessem@iwkoeln.de
ANNEX 6
Tikoteekki started as a project in 1995. In 15 years Tikoteekki has created 11 Tikoteekki centres all around Finland. Today FAIDD / Tikoteekki in Helsinki coordinates a national Tikoteekki-network (consists of the centres of Communication and Computer technics).

Client-centred Intervention: Assessment and Support

Tikoteekki offers:
- assessment and introduction of
- low and high technological communication aids
- methods and strategies
  - to persons with communication difficulties
  - and their close communication partners.

- always a multiprofessional team:
  - a speech therapist (3)
  - an occupational therapist (3)
  - an IT advisor (2)
  - an AAC instructor (1) - all specialized within the field of AAC and AT

Client-centred Intervention: Assessment and Support

Our goal is:
- to find the best solutions to meet our clients communication needs
- to make suggestions that build on best current evidence
- that stakeholders are thoroughly and correctly informed and can make informed decisions.
Tikoteekki:
- stands for considerable knowledge and expertise
  - methodological and technical advancements within the field of AAC and AT during the past 15 years
- provides practically and theoretically oriented courses and lectures
  - in FAIDD’s own premises but also in different organizations and schools in Finland
- has certification to deliver (Talking Mats)
- some courses are based on contract with the National Board of Education
- arranges seminars and open courses and courses on request.

TAIKE:
A large set of dynamic displays and a new communication system
irina.savolainen@kvl.fi

TAIKE®
- a product of a Finnish project "Taking communication software into use" (2005-2009)
- A large new communication system, which utilizes benefits of a communication software (SDP pro v.6)
- Four different versions
- needs always to be modified for the user
- Messages can be produced by pre-stored phrases, symbol vocabulary or letters
- has many new features

1. Mainmenu of TAIKE-
- facilitates natural conversation
- is in every display
  -> the user can move fluently from one part in the conversation to another part

2. Categorization of vocabulary
For example verbs has been classified according to that particular body part, where the action will take part.
3. Language generator

- Inflects automatically words that the user has chosen.
- At the first time speech synthesizer can automatically inflect thousands of words in Finnish.
- The Generator is our own Finnish application and it works only with TAIKE®, and it needs Speaking Dynamically Pro and speech synthesizer Bitlips.

For example

- I drink coffee =
  - Minä juoda kahvi - Minä juon kahvia
- I am hungry=
  - Minä olla nälkä - Minulla on nälkä
- I want icecream =
  - Minä haluta jäätelö - Minä haluan jäätelöä

Disseminating TAIKE® in Finland

- Tens of users
- Training course (2 days)
- Course for families (7 days)

TAIKE® is

...hard, but helpful.
...an opportunity ...a new language in the world.
...a future ...challenging to us, but not for our child (4 years old)
...necessary ...amazing
...a good computer language

Experiences

“TAIKE® brings new challenges to everyday life for us, BUT it gives so exceptional possibilities, that it is like driving a Jaquar.”

Communication and Technology Centre Tikoteekki

FAIDD is a partner in
- ETNA
- ImPaCT
- Pathways to Inclusion
- W2ID
Committed to Protecting and Promoting Health and Welfare in Finland

THL works to be an effective agency

National Institute for Health and Welfare (THL)

THL is an expert agency carrying out research and development that:
- provides expert knowledge for use in health and welfare services and in decision-making
- operates under the Ministry of Social Welfare and Health – supports the Ministry
- was established in 2009 through the merger of the National Public Health Institute (KTL) and the National Research and Development Centre for Welfare and Health (STAKES)

THL’s duties

- To promote health and welfare, prevent diseases and social problems, and to develop social welfare and health care activities and services.
- Research, development, monitoring and evaluation.
- THL performs official tasks and is the statutory statistical authority in health and welfare.

THL is active all across Finland

- Main office in Helsinki
- Six satellite offices in other cities: Turku, Tampere, Jyväskylä, Kuopio, Oulu and Vaasa
- A total staff of about 1200 person-years (ca. 2.5 in AT)

Key figures: THL’s funding in 2012

Total budget of EUR 116.2 million:
- 59% from the State Budget
- 29% from outside funding sources
- 7% from chargeable services
- 5% transferred assets

Five major external financiers: Ministry of Social Affairs, the European Union, the Academy of Finland, Tekes and the Finnish municipalities

THL’s strategy for 2011–2020

Vision
A just and sustainable society for all where people in Finland live a good and healthy life.

Mission
THL is an effective expert agency, committed to protecting and promoting health and welfare in Finland.
Disability and society team

Support participation of citizens with disability.

THL’s challenges: the Service Delivery System

- to control growing costs
- to meet increased public demand for services
- to ensure the supply of trained professionals
- to efficiently steer and manage the service system
- to maintain an information system that supports information steering.

Assistive technology services

Equal provision of assistive technology services in Finland

Some of current tasks in AT services

- To write instructions to support the provision of assistive technology services in healthcare
- Develop a follow-up system for assistive technology services.
- Develop national assistive technology database
- SFS-EN-ISO9999 Assistive products for persons with disability classification work
- NOMO –research 2011-2013
THL puts its message across

- THL on AT www.thl.fi/apuvalineet
- Disability services: www.vammaspalvelujenkasikirja.fi
- THL newsletters www.thl.fi/vuotiskirje
- Online bookshop www.thl.fi/kirjakauppa
- THL on Facebook Twitter www.facebook.com/thl.fi
- THL on Twitter twitter.com/THLorg
- THL website www.thl.fi

Thank you!
ANNEX 8
Some words about EASPD and projects it is involved in

EASPD

EASPD in Brief
European Association of Service Providers for Persons with a Disability
Based in Brussels, Not for Profit
Established in 1996
Objective: Equal opportunities for people with disabilities through effective and high quality service systems in Europe, which are affordable, available and adaptable.
Membership: Umbrella Member Organisation // Single Agency Members
In total, EASPD represents today 10.000 service providers in 32 European countries covering all disabilities.
Around 10 people work in the organisation (including interns)

3 Pillars

INFORMATION
Service provision to members:
• newsletter/newsflashes, networking, offer exchange possibilities to members at European, national, regional and local level

INNOVATION
Research and Development: as basis for innovation and improvement of service provision.

IMPACT
Policy-influencing: serving service providers a voice in Europe through
• Cooperation,
• Conferences,
• Political Representation,
• Close cooperation with EU institutions and the Council of Europe

Method of Operation

1 Standing Committees
• SC Enlargement
• SC Education
• SC Employment
• Policy Impact Group

1 Interest Groups
• on ICT & Person-Centered Technologies
• on Occupational Services
• on Independent Living
• on Workforce development

Political Debates
EASPD is involved in different public debates
• The implementation of the UN Convention on the Rights for Persons with Disabilities
• Implementation of EU Disability Strategy 2010-2020
• Social- and Health services of general interest
• Quality of Services
• Action plans for persons with disabilities of the European Commission and the Council of Europe
• Public Procurement
• Standardisation (Mandate 473)
• EU 2020 strategy etc.
ICT PSP – ETNA project (270746)

Projects in the field of education
Pathways to Inclusion:
A European network and a knowledge centre on inclusive education

Activities:
- Ensure a consistent policy dialogue with the participants involved in the current situation of the member states and the state of play in the sector
- Collect and analyse cross-country data on the policy situation and the needs of the disabled, etc. A base for policy makers
- Provide solutions and support for the implementation of the mainstreaming framework
- Support an inclusive HR policy framework for the future in member states
- Support an inclusive HR policy framework for the future in member states

Projects in the field of ICT & AT
INCLUSION:
The main objective is to develop a satellite navigation device for people with motor impairments, enabling barrier-free navigation in a urban environment, using available Galileo technologies (EGNOS & EDAS)

Activities:
- Developing a satellite navigation device for people with motor impairments, enabling barrier-free navigation in an urban environment, using available Galileo technologies (EGNOS & EDAS)
- Developing an online platform providing additional services (black-box, and back-up, updating, etc.) sharing information with a community of users, etc.
- Testing the device in an uncontrolled environment (March 2012)

EASPDs Influence

EASPDs influence is a number of important consequences:
- A positive recognition of the Council of Europe – Committee of Ministers’ action Plan
- A process, which evaluates the implementation of the disability action plan developed by the Council of Europe
- Membership in the label group of NGOs with the European Economic and Social Committee
- Membership of the platform of the European Social NGOs in the Disability High Level Group of the European Commission, DG: Justice
- Close cooperation with the European Disability Forum (EDF), International networks and organisations such as ILO, European Group for Disability and Development (EGDD), the European Union of the Blind (EUB) and Age Europe, AAAEE...

Projects in the field of employment
IBB2:
IBB2 is the continuation of the successful EU project IBB from 2003 to 2006, an inclusive training model was developed in order to train people with disabilities in order to become workers.

The particular challenge now is to acknowledge that people with disabilities are no longer clients, but have become colleagues.

Activities:
- Developing a mentoring model in order to pave the way for the fully trained worker to enter the open labour market
- Organise a network activity in the so called ‘new’ Member States in order to exchange experiences and results
- To identify future scenarios for social services in Europe with regard to the training of people with disabilities and the introduction of innovative services
- To identify future scenarios for social services in Europe with regard to the training of people with disabilities and the introduction of innovative services
- To present its findings to policy makers, professionals and users.

EASPD Projects

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- A positive recognition of the Council of Europe’s action Plan
- A process, which evaluates the implementation of the disability action plan developed by the Council of Europe
- Membership in the label group of NGOs with the European Economic and Social Committee
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Projects in the field of research on innovative services
INNOVATION:

Objectives:
- To present a wide patch of research development of social services in the field of health, education, and welfare by producing short and medium-term visions focusing on expected and expected opportunities in social services
- To develop and evaluate social policy-making by employing a wide range of alternative theoretical and methodological approaches
- To analyze the current state of the art and the need for the development of innovative services in social services
- To define and implement the strategic objectives, supported by a variety of funding streams (ILO, PROGRESS, CPF, EDAS, etc.) as shown by some examples below...
- Education (e.g. P2I)
- Employment (e.g. IBB2, etc.)
- ICT and AT (e.g. INCLUSION)
- Research on innovative services (INNOVATION)
- Social Dialogue (PESOS)

Deliverable D8.2 – 15/02/2013
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Projects in the field of Social Dialogue

PESSIS

The objective of this project is to reach a better understanding of how social dialogue is organised and whether (or not) in the social sector in Europe.

The second objective is actually to gather qualitative and quantitative data helping to understand the key role of not-for-profit sector employers and to promote their stronger involvement in social dialogue mechanisms (especially at EU level).

Main Activity:
- Mapping exercise in 11 countries + report

Thank you!

Hervé Gauthier
EASPD
Av. d'Auderghem/ Oudergemlaan 63
1040 Bruxelles

+32 22 82 46 10
www.easpd.eu
ANNEX 9
Zuyd University

Content
- Zuyd University
- Etna team Zuyd
- Research Center
- Projects

Zuyd University
Offers 50 different Bachelor and Master programs.
- 50000 students and 1850 professionals
- Trainings en education for professionals
- Research together with companies

Focus on themes which are relevant for our regions. Like:
- Technology in care
- New materials/ New Energy
- European Arts

Etna-Team Zuyd
5 team members
Searching for resources
Factsheets
Promoting
Searching for films/ pictures

Research center
Technology in care

Technology in care
- Initiating and stimulating innovation in long term care
  - Elderly
- Research and innovation
- Developing knowledge
- Developing Projects
- Implementing in education

FOCUS:
- Robotics
- Care at Distance
- Simple assistive technology

www.technologyincare.nl
More than a New location

Care-TV: Programme for stroke patients with fatigue problems

EMA: Electronic Mobility Aids for persons who are visually impaired

Sjoboks

Questions?

http://test.mediamens.nl/sjoboks

Thank you for listening!
WEBINAR
Ceapat- Imserso

Madrid, 13.6.2012

Cristina Rodriguez
Ceapat-Imserso- Ministry of Health, Social Services and Equality
Legal framework in Spain
Act 51/2003
on equal opportunities, non discrimination and universal accessibility

Principles:

Independent living
Normalization
Universal Accessibility
Design for all
Civil Dialogue
Mainstreaming
Legal framework in Spain
Act 39/2006
On the promotion of personal autonomy and care for dependent persons

Integrated national system to address globally the situations of persons in vulnerable situations
International Convention on the Rights of Persons with Disabilities

El propósito de la presente Convención es promover, proteger y asegurar el goce pleno y en condiciones de igualdad de todos los derechos humanos y libertades fundamentales por todas las personas con discapacidad, y promover el respeto de su dignidad inherente. Las personas con discapacidad incluyen a aquellas que tengan deficiencias físicas, mentales, intelectuales o sensoriales a largo plazo que, al interactuar con diversas barreras, puedan impedir su participación plena y efectiva en la sociedad, en igualdad de condiciones con las demás.
Ceapat

National Reference Centre for Personal Autonomy and Assistive Technology, from National Institute for Older Persons and Social Affairs: IMSERSO, Ministry of Health, Social Services and Equality, SPAIN
Ceapat´s Mission:

to work for the rights of persons with disabilities and older persons by means of universal accessibility, assistive technologies, and design for all.
Ceapat

Headquarters: Madrid

4 delegations in Spain

1 delegation in Argentina
iProA: Spanish Network of Centres for Information in Assistive Products

Aims:
- interchange of experiences
- facilitate access to information
- harmonize structures of information
- empower users

www.iproa.es
Quality systems in Ceapat

- UNE- EN ISO 9001 Quality Management System

- UNE 170001:2 Universal Accessibility

- Services Charter 2011-2014
CERMI Prize

Social and Scientific Research to Ceapat-Imserso
Ceapat´s activities

- Information and advice on Assistive Technologies, Accessibility and Design for all.
- Collaboration for the development of accessible ICT
- Standardization works
- R&D
- Publications
- Catalogues and networks
- Specialized Library
- Exhibition
- National & international projects
Ceapat’s Areas

Accessible environments

Information and Assessment

Research, development and innovation

Documentation, specialized library and networks

Administration
Technical Standards Committees

AEN/CTN 41 /SC 1/GT 11.- Accesibilidad la edificación y el urbanismo

AEN/CTN 89.- Mobiliario de oficina

AEN/CTN 133.- Telecomunicaciones

AEN/CTN 139/SC8.- Tecnologías de la Información y Comunicación para personas con discapacidad y mayores

AEN/CTN 153.- Productos de apoyo

AEN/CTN 26/SC4.- Adaptación de vehículos

AEN/CTN 158.- Servicios para la autonomía personal

AEN/CTN 170.- Accesibilidad universal
Technical Standards Committees

International Level:

ISO/TC 22  Adaptaciones de Vehículos

ISO/TC 41  Accesibilidad al entorno

CEN/CENELEC/ETSI  Compras Públicas

Grupo de expertos EXPRESS  Comisión Europea.
Spanish Catalogue of Assitive Products and Technologies

www.ceapat.es
European Assistive Technology Information Network

www.eastin.info
International Alliance of Assistive Technologies Information Providers

www.ati-alliance.net
Low cost adaptations. Do it yourself

www.crmfalcabacete.org
Exhibition ICT
Accesible transport
ICT for independent living
Augmentative and alternative communication
Personal Adaptable Communicator

Apple, Iphone, Ipod.
Ipad.
Free software
Apps iPad e iPhone

AWARD 2010
Ablah y Liga BBVA HD galardonadas con el Premio a la Mejor Aplicación española de 2010

www.ablah.org
Cognitive stimulation programmes
Electronic games entertainment and virtual reality
paSOS Project, to the Universalization of Mobile Telecare assistance Services
TERMINAL

VOICE CALL

LOCATION

COMMUNICATIONS

Mobile Network

VOICE

LOCATION

ALARM CENTER

VOICE

LOCATION

VOICE
paSOS

Is a free and open communication protocol for the interworking between the mobile assistance terminals and the alarm centres.
European year for Active Ageing and Solidarity between Generations

Good practices in enterprises
ITC for all ages
Thank you very much

Los Extremeños, 1
28018 Madrid, SPAIN

www.ceapat.es

ceapat@imserso.es
Si tu móvil tiene lector de código QR entra directamente en nuestros perfiles. Si no, introduce las direcciones en tu navegador.

facebook
http://www.facebook.com/Ceapat

twitter
http://twitter.com/#!/ceapat

flickr
http://www.flickr.com/photos/ceapat/

issuu
http://issuu.com/ceapat
National Reference Centre for Personal Autonomy and Assistive Technology (CEAPAT-IMSERSO).

Lucía Pérez-Castilla Alvarez
Webinar 13-06-2012
Assistive Technology and Design for all Area.

Our team:

- 4 occupational therapists
- 1 speech therapist
- 2 engineers
- 2 psychologists
- 1 coordinator
Assistive Technology and Design for all Area Activities.

Information and advice on universal accessibility and design for all, in the field of assistive products and information and communication technologies.
General Catalogue of Assistive Products with information of technical aspects, manufacturers and suppliers.

http://www.catalogo-ceapat.org/

### Clasificación de productos de apoyo

Para encontrar productos atendiendo a su finalidad, puedes navegar por las categorías en las que se organiza el Catálogo.

<table>
<thead>
<tr>
<th>Nivel</th>
<th>Categoría</th>
<th>Productos</th>
</tr>
</thead>
<tbody>
<tr>
<td>04</td>
<td>Productos de apoyo para tratamiento médico personalizado</td>
<td>199</td>
</tr>
<tr>
<td>05</td>
<td>Productos de apoyo para el entrenamiento/aprendizaje de capacidades</td>
<td>78</td>
</tr>
<tr>
<td>06</td>
<td>Ortesis y prótesis</td>
<td></td>
</tr>
<tr>
<td>09</td>
<td>Productos de apoyo para el cuidado y la protección personal</td>
<td>299</td>
</tr>
<tr>
<td>12</td>
<td>Productos de apoyo para la movilidad personal</td>
<td>417</td>
</tr>
<tr>
<td>15</td>
<td>Productos de apoyo para actividades domésticas</td>
<td>181</td>
</tr>
<tr>
<td>18</td>
<td>Mobiliario y adaptaciones para viviendas y otros inmuebles</td>
<td>449</td>
</tr>
<tr>
<td>22</td>
<td>Productos de apoyo para la comunicación y la información</td>
<td>963</td>
</tr>
<tr>
<td>24</td>
<td>Productos de apoyo para la manipulación de objetos y dispositivos</td>
<td>262</td>
</tr>
<tr>
<td>27</td>
<td>Productos de apoyo para mejorar el ambiente, herramientas y máquinas</td>
<td>1</td>
</tr>
<tr>
<td>30</td>
<td>Productos de apoyo para el esparcimiento</td>
<td>78</td>
</tr>
</tbody>
</table>

### Los más visitados

<table>
<thead>
<tr>
<th>Número</th>
<th>Producto</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Cinta métrica costura</td>
</tr>
<tr>
<td>2</td>
<td>Bastón ampliﬁdor con función de inmovilización</td>
</tr>
<tr>
<td>3</td>
<td>Exercitadores de compresión</td>
</tr>
<tr>
<td>4</td>
<td>Sillón de reposo</td>
</tr>
<tr>
<td>5</td>
<td>Cama para niños</td>
</tr>
</tbody>
</table>

### Novedades

Ultimos productos incluidos en el catálogo:

- **Apoyo de brazos con función de inmovilización**
  - Fecha: 14-03-2012
- **Indutox**
  - Fecha: 14-03-2012
- **Teléfono móvil blackberry**
  - Fecha: 13-03-2012
- **Teléfono móvil doro**
  - Fecha: 13-03-2012
- **Plataforma de seguridad para niños**
  - Fecha: 13-03-2012
- **Elevador vertical**
  - Fecha: 13-03-2012
Projects implementation and technical support to institutions, organizations, users, professionals and market agents.
Exhibition of assistive products and open door sessions.
El Ceapat celebra su decimoséptima «Semana de Puertas Abiertas» del 4 al 8 de junio.

Como cada año, el Ceapat crea un espacio abierto a las personas usuarias, profesionales, organismos, las asociaciones y las empresas interesadas en la accesibilidad y las tecnologías de apoyo. Durante toda la semana, el equipo de profesionales del centro estará disponible, de 9 a 14 horas, para quienes necesiten asesoramiento y para intercambiar opiniones e información.

En estos días, se podrá conocer nuestra exposición de productos de apoyo, mediante visitas en grupo guiadas por los profesionales del centro. Además, hemos organizado unas Jornadas Técnicas en las que se presentarán productos, iniciativas y, en especial, los proyectos coordinados por el Ceapat en el marco del 4º Europeo de Envejecimiento Activo y la Solidaridad Intergeneracional. También se darán a conocer estudios y soluciones para facilitar el envejecimiento activo desde la accesibilidad de los entornos.

Para poder participar en la visita a la exposición es necesario inscribirse previamente.

La participación en las jornadas técnicas es libre hasta completar aforo. Para asegurar la accesibilidad, se contará con interpretación en lengua de signos, estenotipia computarizada y bucle magnético y todas las sesiones serán retransmitidas en streaming, en formato accesible.

- **Fechas:** 4 al 8 de junio, 2012
- **Localización:** 9 a 14 horas
Participation in professional training: courses, conferences and seminars.

Technical support for the development of legislation, technical standards, specifications and quality criteria.
Coordination and links with public and private institutions, organizations and associations at national and international level.

National net of centres with assistive products for computers.

Projects focused on ICT used as an important tool to improve the lives of persons with communication barriers:

Azahar, InTIC, Signoguías.

TELPES project: accessibility for persons with hearing impairments.
Production of documents and publications on assistive products and information and communication technologies.
“Workplaces Adaptation. Reference guide”

“Augmentative and Alternative Communication. Reference guide”
"Accesibility best practices in video games".
“Guide for the assessment of dependency situation: Assistive products for Personal Autonomy”

Guía de orientación en la práctica profesional de la valoración reglamentaria de la situación de dependencia: Productos de Apoyo para la Autonomía Personal

Si la persona es usuario de silla de ruedas, la altura de la mesa debe ser ajustable para adaptarse a las necesidades del usuario. Además, la silla debe proporcionar los controles necesarios hacia adelante.

Recomendaciones en caso de personas con discapacidad visual:
• Omitir los utensilios de comida siempre en la misma disposición.
• Diferenciar el color de la superficie de apoyo con los soportes.
• Explicar la disposición de los alimentos en el plato, según las horas del día.

Cortar e partir la comida en trozos
Actividad que requiere un trabajo coordinado de las dos manos, fuerza, agarre y movilidad en los Brazos.

Si se dispone de una sola mano funcional se pueden utilizar cubiertos que tengan función de cortar y pincelar (cuchillo basculante, tenedor con cuchilla, tenedor y hilo circular cortante. Utilizada son útiles para alimentos blandos. Existen también, tenedores en los que uno de sus bordes está afilado.

En todos los casos, se debe tener precaución para no cortarse los dedos.

Si además hay falta de fuerza, las cuchillas sin forma de báscula, con el mango perpendicular a la hoja, permiten el agarre con pincel extrayendo posteriormente dorados de muñeca y dedos.

Recuerda:
• Las banderitas y asideros deben estar bien fijos a la pared, al lado del empuje.
• Una buena iluminación evita tropiezos. El encendedor de luces activadas mediante sensores de detección de presencia también sirve de ayuda para prevenir caídas.
• Evitar obstáculos por el suelo. Convértese presencia de las alfombras o en su defecto colocar alfombras antideslizantes debajo de ellas.
• Es recomendable utilizar sueltos no deslizantes.
• Rematar en cortar y/o elevar la posición de apagado de los mandos de la cocina para evitar errores, o utilizar modelos que proporcionen información acústica sobre su estado o función.
• La placa vitrocerámica al ser plana es más segura para la colocación y desplazamiento de recipientes.
• La instalación de videoportero, con aviso mediante señal luminosa o vibración, está especialmente indicada para las personas con discapacidad auditiva.

Evitar situaciones de riesgo fuera del domicilio:
Los principales riesgos fuera del domicilio son la desorientación, el cruzar las calles sin atención y las caídas frecuentes.

Los teléfonos móviles sencillos de usar con prestaciones como teclas grandes, buen contraste o reproducción por voz del número marcado, facilitan la comunicación con familiares, cuidadores, o asistentes para informarles de posibles incertidumbres o pedir ayuda para supervisar determinadas tareas. Para personas que utilizan prótesis auditivas con posición T, se puede incorporar un bucle magnético, evitando las posibles interferencias o pérdidas, y eliminar el ruido exterior.

Los sistemas de localización a través de un teléfono móvil o otro tipo de terminal que permite la persona con limitaciones en la orientación o alteraciones de la memoria, permiten conocer su ubicación.
“Convention on the rights of the persons with disabilities”. Adapted for the persons that use pictographic communication systems.
Artículo 7

3. Los Estados Partes garantizarán que los niños y las niñas con discapacidad tengan derecho a expresar su opinión libremente sobre todas las cuestiones que les afecten, opinión que recibirá la debida consideración teniendo en cuenta su edad y madurez, en igualdad de condiciones con los demás niños y niñas, y a recibir asistencia apropiada con arreglo a su discapacidad y edad para poder ejercer ese derecho.
Ceapat. Centro de Referencia Estatal de Autonomía Personal y Ayudas Técnicas :: Inicio - Windows Internet Explorer

Noticias destacadas

- En junio se celebra la Semana de Puertas Abiertas en el Ceapat
- Da comienzo el proyecto del Ceapat «Yo lo cuento... Cuenta contigo»

Últimas Publicaciones

- Guías de orientación en la práctica profesional de la autorregulación de la situación de dependencia: productos de apoyo para la autonomía personal.
- Guías de orientación en la práctica profesional de la autorregulación de la situación de dependencia: productos de apoyo para la autonomía personal.
- Mi comunicador de pictogramas.
- Guía de orientación en la práctica profesional de la autorregulación de la situación de dependencia: productos de apoyo para la autonomía personal.
- Guía de orientación en la práctica profesional de la autorregulación de la situación de dependencia: productos de apoyo para la autonomía personal.
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- Guía de orientación en la práctica profesional de la autorregulación de la situación de dependencia: productos de apoyo para la autonomía personal.

Accesos de Interés

[Ver más noticias]
Current projects in Assistive Technology and Design for All Area.

“Yo te cuento… cuenta conmigo”. (“I’ll tell you…count on me”)
Project to support communication with older persons and older persons with disabilities.

Goal: support older persons, professionals and families to improve communication and facilitate participation.

Coordination: CEAPAT-IMSERSO.
Project “Yo te cuento… cuenta conmigo”.

2012-2013.

3 stages:
Identification of needs.
Intervention strategies.
Informative document editing.

Current number of participants: 18
(Hospitals, associations of persons with disabilities, reference centres …)
Thank you very much for your attention.

Pictograms: ARASSAC
www.catedu.es/arasaac

91 703 31 00
C/ Los Extremeños, 1
28018 Madrid

91 778 41 17
www.ceapat.es

91 778 90 64
lpcastillaa@imserso.es
ANNEX 11
Hellenic Institute of Transport
Centre for Research and Technology Hellas

Web: www.hit.certh.gr

HIT Profile
- HIT is the National Organisation devoted to the promotion and conduct of Transport research in Greece.
- Established in March 2000 as part of the Centre for Research and Technology Hellas (CERTH).
- Supervised by the General Secretariat for Research and Technology of the Ministry of Education, Lifelong Learning and Religious Affairs.

Highlights of HIT’s primary objectives
- Scientific and research support for Transport Policy formulation, to Ministries and other Organizations involved in Transport and Transport Policy in Greece.
- Specialized research in the field of Transport.
- Transport Research evaluation.
- Support of Standardization work in the field of Transport, and publications of handbooks, rules and guidelines concerning the operation of the Transport system.
- Transfer and integration actions of Transport research with the activities and needs of the “Transport Industry” and the Transport Users.

Safety in Transport (1/2)
- Drivers behavior analysis
- Standards for Rail & Road infrastructure design
- Statistical analysis of accidents and intervention proposals
- State-of-the-art research in methodologies for transport infrastructure quality monitoring
- Laboratory on transport safety

Safety in Transport (2/2)
- Related research infrastructures

Related research infrastructures: Motorbike simulator, Safety awareness van

Environmental impact of transport & climate change (1/2)
- Advanced algorithms of logistics management for responding to catastrophes (e.g. RESCUE project)
- Simulation models for assessing climate change impact on transport (e.g. WEATHER project)
- Economic impact assessment of climate change in Greece
- Green vehicles initiatives
- State-of-the-art Laboratory for environmental impact assessment of transport
Environmental impact of transport & climate change (2/2)

Freight transport and logistics
- Intermodal freight transport systems planning
- Optimization algorithms for logistics management
- Assessment of new technologies implementation in freight transport
- Security and efficiency of global logistics

SMART Container Chain Management (SMART-CM)
- Technology Agnostic “Single Window” Platform
- Global Demonstrators
- Green Lane Concept Support

Urban Mobility
- Methodologies and surveys for public transport quality assessment
- Algorithms for pre-trip intermodal route planning
- Algorithms for real-time route guidance
- Dynamic simulation models for real-time traffic forecasting
- Development and operation of electronic Mobility Centres

Intelligent Traffic Control & Management Center of Thessaloniki
- Dynamic simulation forecasting
- Traveler’s services
- Dynamic traffic forecasting

Field Equipment - Traffic counting sensors

ICT PSP – ETNA project (270746)
Deliverable D8.2 – 15/02/2013
Annex 11 pg 2/9
Domotics/Usability lab

- Control domotics through:
  1. PC / Laptop (incl. wheelchair control)
  2. Media center (incl. wheelchair control)
  3. PDA (incl. wheelchair control)
  4. Indoor wall-mounted touch panels
  5. Mobile devices

- Devices integrated:
  1. Door lock
  2. Door bell
  3. HVAC
  4. Dimmable light
  5. Lamps
  6. White goods (Micro, Grill, Coffee machine)
  7. TV

- Sensors integrated:
  Temperature, Humidity, Luminance, Energy meter, Motion detector, Door status control, CO gas sensor

POI & Routing: Data Collecting

- Detailed info regarding the accessibility of POIs in:
  1. Athens Center
  2. Thessaloniki Center & Panorama
  3. Indoor at AIA
  4. Indoor at CERTH Conference Center

- Detailed accessibility info regarding transportation nearby and among POIs:
  1. Public transportation means (metro, bus, train, etc.)
  2. Stations / terminals (bus stops, taxi stations, airports, etc.)

- Accessible routes for pedestrians
  1. Blind, wheelchair users, and pedestrians using walking aids
  2. Identification of accessible routes per user group (i.e., among selected POIs, e.g., from a hotel to a restaurant)
POIs & Routing: Athens
- 20 Hotels
- 50 Café-bar-club
- 43 Fast Food
- 34 Restaurants
- 32 Shopping points
- 22 Bus stops
- 7 Metro stations
- 5 Tram stops
- 10 Museums/Cultural areas
- 6 Cinemas
- 5 Theatres
- 3 Sport venues
- TOTAL: 234 POIs
- Over 50 Pedestrian Routes among POIs

POIs & Routing: Thessaloniki
- 6 Hotels
- 33 Café-bar-club
- 36 Restaurants
- 11 Shopping points
- 11 Banks/ATMs
- 8 Museums/Cultural areas
- 3 Cinemas
- 2 Public Toilets
- 1 Sport venue
- 1 Transportation Terminal
- TOTAL: 111 POIs
- Over 20 Pedestrian Routes among POIs

Social Events
- Data for renting special equipment, e.g., wheelchairs (Athens & Thessaloniki) (proof-of-concept)
- Information on Braille maps availability (Thessaloniki) (proof-of-concept)

Personal Support
- Info on past and forthcoming events for people with disability
  - Search by disability type, event type (athletic, musical, conference, etc.) and date
  - Registered users are able to:
    - Add New Events to the Database
    - Edit existing Events
    - Delete Events from the Database

Accessibility-related EU projects
- ASK-IT
- Access2All
- REMOTE
- Accessible
- ETNA
- AEGIS
- Cloud4All
- ETNA

Participation of HIT in EU road safety related projects (indicatively)
- SENSATION
- IN-SAFETY
- WATCH-OVER
- SiLOW
- PREVENT
- DaCoTA
- ASK-IT
- PEPPER
- DRUID
- TELEFOT
- SAFERIDER
- TRAIN-ALL
- APROSYS
- BOB Campaign
- GOODROUTE
- TRACE
- 2-BE-SAFE
- SAFEWAY2SCHOOL
Road safety related projects:

**Accident Analysis**
- TRACEL
- APROSYS
- DaCoTA

**Integrated Project on Advanced Protection Systems**

**Road safety Data Collection, Transfer and Analysis**

**Driver monitoring**
- AWAKE - System for Effective Assessment of Driver Vigilance & Warning According to Traffic Risk Estimation
- AGILE - AGed people Integration, mobility, safety & quality of Life Enhancement through driving

**Dangerous Goods Transportation Routing, Monitoring & Enforcement**

**Active Safety Systems**
- SAFERIDER
- PreVENT

**Preventive and active safety**
- Vehicle-to-Vulnerable road user cooperative communication and sensing technologies to improve transport safety

**Driver Behavior**
- PEPPER

**Police Enforcement Policy and Programmes on European Roads (PEPPER)**
- Driving under the Influence of Drugs, Alcohol & Medicines

**Large scale tests**
- PROLOGUE: Naturalistic driving studies
- ICT PSP – ETNA project (270746)
  - Deliverable D8.2 – 15/02/2013
  - Annex 11 pg 6/9

**Infrastructure**
- In-Safety

**Road safety Data Collection, Transfer and Analysis**
Road safety related projects: Schools

- Shl.OW! 'Show me How Slow'
- Mobilising Transport research into Speed Management
- Integrated system for safe transportation of children to school
  SAFEWAY2SCHOOL

HIT research equipment (1)

- PTW test platform
- Passenger car test platform

HIT research equipment (2)

- PTW fully dynamic simulator
- VR unit
- Static and dynamic car simulator

Research on environment pollution

- Eco-driving studies
- Evaluation of electric vehicles performance
- Evaluation of air quality

HIT Portal for provision of data and services for mobility

- Web Servers
- Database Servers
- Application Servers
- High Performance Clusters
- Network Switches
- Routers
- Hardware Firewall

Participation in fora (FERSI, ECTRI)
Contribution of HIT to road safety

- Conduct innovative research on active and passive safety topics.
- Extensive publication of research findings in international journals and conferences regarding traffic safety (more than 60 references since 2005).
- Teaching Traffic Safety at universities.
- Extensive public awareness campaigns in Greece (e.g. BOB campaign), visits to schools and public events to discuss road safety issues and to show the mobile simulator.

Traffic behavior” teaching material for high school

- books for three grades
- 500 pictures and explanatory figures
- A book for teachers
- Multimedia (CDs, videos)

Improvement of work zones traffic safety

- Seminars to road constructors and engineers
- A computerized tool for designing safe road zones

Campaigns against drink and driving

CERTH/HIT has been the representative of BOB campaign in Greece. It started in 2002 and finished in 2005. The campaign has been realized through tv-spots, leaflets, posters, radio messages.

Campaigns for seatbelt and helmet use

- In 2006, CERTH/HIT has initiated the production of two spots which have widely been broadcasted (about 23 national stations).

International partnerships

- FERSI Chairman – Forum of European Road Safety Research Institute
- Former ECTRI President - European Conference of Transport Research Institute
- Former SETREF President – South East European Transport Research Forum
- ERTICO Member – European Road Transport Telematics Implementation Co-ordination Organization
- EUROPEAN ENVIRONMENT AGENCY
Thank you!
ANNEX 12
Hacavie, association to serving disabled and elderly people.
Over 20 years of experience.
90% of people satisfied after review!
Local and national actions

National ressource center on assistive device and disabilities

Regional center for personnal autonomy (assistive device care and home accessibility)

Prevention to old people
The heart of Hacavie..
Tools of choice for us local workers
Garanties of National and international reputation
Service for professionnel and public by delivery neutral, exhaustive and reliable information.

Funding by private and public founds:

- National social security
- Private donation
- Public-private partnership with buying group for hospitals and clinics (Council, assistance and database on the market of assistive device)
National knowledge and skills on assistive device and disabilities.

- Exhaustive documentation on assistive technology and purposes, and laws for disabled people
- Reviews, comparatives, show visits, studies on assistive devices.
- All information is accessible freely over internet via 2 websites: database, articles and actuality.
- Two magazines:
  - Trimestrial: “la lettre d'Hacavie”
  - Mensual: “les actualités d'Hacavie”
• Database “Handicat”

• More than 10,000 assistive devices classified by ISO classification and simplified French classification.

• Technical and general details: price, funding, size, weight … All fields change with type of products.

• Manufacturers and national distributors with address, website and all their products.

• European with Eastin.eu

http://www.handicat.com/
Team composed by occupational therapist and social workers to the project of people

One goal: Autonomy

Tools:

- Documentation of Hacavie (database, reviews ...) and experience on assistive device market and home accessibility.
- Human and computers meanse: client following software with performal stats, Internet on all personal computer, plan software ...
Regional center for personal autonomy

- Individual treatment of project:
  - Evaluation of personal autonomy difficulties
  - Recommendations in correlation with the project of the person
  - Social evaluation and funding search
  - Followed of the project until its realisation
Prevention to old people

For elderly people in prevention
People difficulties evaluation
Proposition of project to keep autonomy:
- Human and service help (houseold, meal, alarm, transport, shoppin ...)
- Assistive devices
- Home accessibility

Reevaluation of news every two years

Funding by national pension fund
Prevention to old people

- For elderly people in prevention
- People difficulties evaluation
- Proposition of project to keep autonomy:
  - Human and service help (houseold, meal, alarm, transport, shoppin ...)
  - Assistive devices
  - Home accessibility
- Reevaluation of news every two years

Funding by national pension fund
Thank's for your attention !
FTB of ESV - Tasks and Work

Forschungsinstitut Technologie und Behinderung
Research Institute Technology and Disability
ESV – Evangelische Stiftung Volmarstein
(a protestant foundation of private law)

- Rehabilitation Centre for People with Physical Disability
  - founded in 1904
  - with nowadays about 3400 employees
- Orthopaedic clinic and other hospitals in the region
- Job training centre for about 400 people with disabilities
- Sheltered workshops for more than 200 people with disabilities
- Special school for children with severe disabilities
- Residential care homes for older people and people with disabilities
- Outpatient care and assisted living facilities
- Commercial computing centre (about 100 employees)
- FTB
ESV – Comprehensive Services for humans

Key Activities*:

- Medical therapy and care
- School and vocational rehabilitation
- Technologic research considering the support of persons with disabilities
- Health services
- Various services for independent living
- Supporting people with disabilities in all matters of personal assistance

*cited from the company concept of ESV
FTB - Research Institute
Technology and Disability

Office building

Lab and test-centre
FTB - Research Institute Technology and Disability

- Founded in 90/91 by ESV within ZIN
  - joint initiative with SIHK, FeU, Demag
- Office building
  - ca. 500 qm, bureaus, E-lab
- Laboratory and Test building
  - ca. 600 qm, laboratory hall, test dwelling, exhibition and showroom
- 23 employees, inter-disciplinary
- Scientific Institute at the FernUniversity Hagen
- Scientific Institute at the Technical University of Dortmund
- Partnership, co-operation and networking with organisations on international, national, federal-state and regional level
Transfer and application of modern technology for the support of older people and people with disabilities

- Solutions for all (Design for all)
- Individual solutions (Assistive Technology)

The human is in the centre of consideration
FTB - Task Areas

Research / Development

AT / UD

Information / Advice

Test / Validation

AT - Assistive Technology

UD - Universal Design

FTB of ESV - tasks and work

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INFORMATION AND ADVICE CENTRE
Information and Advice Centre - Scope

- Individual advice and support for people with disabilities, older people and their relatives in the field of Assistive technology
- Demonstration of new technical solutions for different target groups
- Information services and informal training related to Assistive Technology and Accessibility issues
- Documentation activities
- Networking activities and co-operations in the areas: rehabilitation, science, technology and social politics
Individual advice: home adaptation

problem

proposal for solution

solution
Individual advice – Assistive technology guidance

- e.g. wheelchair steering by using a chin-joystick
- Virtual testing with wheelchair simulation “wheel SIM“
Demonstration of new technical solutions

Facilities and equipment

- Different bathrooms with technical equipment
Demonstration of new technical solutions

Facilities and equipment

Fully equipped Kitchen
Demonstration of new technical solutions

Facilities and equipment

- Exhibition hall
- PC-workplaces
Information services / informal training – Target groups and services

Professionals:
- Accessible housing (workshops and seminars/ Info-Mobil)
- Supply with technical aids (workshops and seminars)
- Easy language (advice, permanent office planned)
- Accessibility of ICT (web site check/ web based information/ workshops and seminars)

End users, user organisations:
- Agreements on objectives (web based information/ advice and supervision of processes)
- Accessibility of public buildings (web based information/ training in the course of comprehensive survey of public buildings)
- Accessibility of ICT (web based information/ reporting point for digital barriers)

Political decision makers / multiplicators:
- Accessibility of public buildings (web based information/ seminars with self-awareness training)
- Accessibility of ICT (web based information/ seminars with self-awareness training)
Networking and Co-operation

- VDI
- DVE
- Wissenschaftsforum Ruhr
- BAG Selbsthilfe
- DVfR
- Sozialverband VDK
- Landesbehindertenrat NRW
- Landesbehindertenbeirat NRW
- AAATE
Information and Advice Centre - current projects:

- Agency for housing consultation (FTB-Wohnberatung)
  - Regional Level, financed by local authorities and the statutory care insurance

- Accessibility Agency North Rhine-Westphalia
  - Federal state level, financed by Ministry of work, integration and social affairs NRW

- Di-Ji (digitally informed – integrated into work)
  - National level, financed by the federal ministry of work and social affairs

- REHADAT (Information system for vocational rehabilitation)
  - National level, financed by the Cologne Institute for Economic research – IW Köln

- ETNA
  - European level, financed by the EC
RESEARCH AND DEVELOPMENT CENTRE
Research & Development Centre – Scope

- **Technical Research**
  - Information & Communication Technologies (PC and Web)
  - Information Systems for Mobility
  - Ambient Assisted Living (AAL)
  - Rehabilitation Technology / Assistive Technology

- **Research & Development Management**
  - Development of technical guidelines and concepts
  - Development of research agenda / research networks

- **Technical Product Development and Adaptations**
  - Development and maintenances of web sites
  - PC-based communication and writing aids
  - Technical adaptation of Assistive Technology in special cases
Research & Development Centre – Facilities

- Computing & Server Facilities
- Electronics Workshop
- Test dwelling
  - fully equipped and full functional dwelling
  - various AAL installations
  - realistic test environment for daily living applications

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Research & Development Centre – Current Projects 1

- **eGovMon** (eGovernment Monitor)
  - National (Norwegian) level, co-funded by the Research Council of Norway

- **NAMO** (Seamless Barrier-free Information and Mobility Chain for Elder People)
  - National level, co-funded by the Federal Ministry of Education and Research

- **ELDER-Spaces** (Managing Older People Social Relationships for Better Communication, Activation and Interaction)
  - EU level, co-funded by the European Commission within the AAL-Joint-Programme

- **AAL @ ESV** (Ambient Assisted Living in our rehabilitation centre ESV)
  - internal project
Research & Development Centre – Current Projects 2

- **CARDIAC** (Coordination Action in R&D in Accessible and Assistive ICT)
  - EU level, co-funded by the European Commission within the 7th Framework Programme

- **ENABLE** (Enable network of ICT supported Learning for Disabled People)
  - EU level, co-funded by the European Commission within the Lifelong Learning Programme

- **BITV Lotse** (Guidelines for Web site administrators, Web2.0)
  - National level, funded by the Federal Ministry for Social Affairs
Rehabilitation Technology / Assistive Technology

Examples of development participation within former projects:

- Robotics
  - Manipulator MANUS
  - Handy 1
- Wheelchair drives (Omni)
- Communication software (Basco)
- PC based hand assessment and treatment system (HATS)
- Stand up and walking aid (Mobil)
TEST AND VALIDATION CENTRE
Test and validation centre – Scope and activities

- Testing of assistive products for older persons and persons with special needs
  - Usability testing for accreditation as a technical aid according to the regulations of former health legislation (SGB V)
  - User oriented test & trial of technical products in any stage of development
  - Needs analysis with respect to consumer demands

- Management of Medical Technology of ESV facilities
  - Advisory Service in consideration of the legal obligations of all relevant laws
  - Security checks
  - Maintenance and repair of health equipment
Thank You! Any questions?

You can find us on the web:

http://ftb-esv.de
http://www.ab-nrw.de
http://www.di-ji.de

Address:
Grundschötteler Str. 40
D - 58300 Wetter
Germany
E-Mail  info@ftb-net.de
phone   +49 (0)2335/ 9681-0
fax      +49 (0)2335/ 9681-19
ANNEX 14
The ACE Centres

Oxford    Oldham
David Colven    Will Wade

Our mission

To provide personalised and independent assessment, research and development, advice and training services for people with severe physical and communication disabilities, and those who support them.

By doing this we enable them to communicate, learn and participate in society.

Recent changes

• The economic downturn has put a great many strains on charities.
• The ACE Centres in Oxford and Oldham (Manchester) have become one organisation,
• ACE Oxford has moved to new offices to Cassington a few miles west of Oxford.

Who we support

• Children and young people with complex communication and physical disabilities
• Their parents, family, carers and local supporting professionals

Who we support

Sophie attends a mainstream school and works alongside her peers using a range of communication and assistive technology

Clare attends University and is studying Physics. She lives independently with support.

Poppy uses her eyes to point to a story she would like to read and uses a simple switch-controlled talker to help read the story.

Daniel uses his communication aid to tell jokes.
What we do

Assessments
Training
Research & Development
Information

Who we are

• An independent charitable trust
• A transdisciplinary clinical team of:
  - teachers
  - speech therapists
  - occupational therapists
  - technologists
• With support staff for:
  - fundraising
  - research and development
  - management and administration

Information

Impartial, independent and informed.
• Website
• Guides
• Information and Training days
• Telephone/email support

Research & Development

R&D mission:
• To remove barriers
• To close the gap
• To expand horizons

By: promoting innovative research and influencing product development in the Assistive Technology field in partnership with providers, users and academics.

What we bring to projects

• 28 years of research and user experience of:
  • Assessment of user requirements
  • Support to user interface design
  • Product evaluation & user trials
  • Accessibility and usability consultancy
  • Development of new AAC
  • Development of inclusive software
  • Development and trialling of new models of service delivery
  • Bridge user, research and supplier communities

Project Involvement

PCAD - TouchSpeak
COMSPEC
WWW/AAC
GoGain
AEGIS
Access Maths now Splash!
SAW now developed as part of AEGIS
Bridge
Leonardo
Oatsoft - now hosted by SU-DART
Why SpeechBubble?

• "It is so reassuring to know that people are thinking about such a resource. My work has been 90% AAC users for ten years and I struggle to know everything. I don't know how a therapist with the occasional AAC user copes." (a happy user in the making!)

Why do/did we need it?

• Nothing comparable online in the UK
• User demand – fills a known demand
• Need for independent disinterested information
• Opportunity for expansion beyond UK

What does it do?

• Unique, searchable VOCA website
• Comprehensive, updated database of 120+ VOCAs, AAC software & AAC vocabularies
• Designed for a wide range of users
• Unbiased, descriptive information written in plain English

Types of Enquiry

Using your experience as a therapist, can you add to this list of questions you'd like to see answered by SpeechBubble:

• What vocabulary software is available with auditory scanning?
• I know how to use the LLL vocabulary, but what communication aids does it run on?
• I just want regular updates on communication aid developments.
• Who offers the best warranty on communication aids?
• I’m an eye-gaze user – what communication software can I use?
Selection by Characteristics
Quick Search
- Simple aids with one message
- Simple aids with 2 to 15 messages
- Multiple aids without touchscreen
- Computer-based aids with touchscreen
- Handheld PDAs based aids
- Aids with built-in QWERTY keyboards

Detailed Search by Characteristics

Search results - Comparisons

What have we learnt?
- NOT intended as a prescriptive solution!
- Must be independent – no opinions
- Range of audience – new to expert
- Range of tech. – comparison issues
- Technology is still accelerating
- We’re aware it’s still needs improving
- Other countries will have different needs
- It will never be complete…..

What next?
- Feedback
- Funding
- Suppliers to keep us updated
- Ensure sustainability
- Email newsletter – what’s new…
- Consumer comments/reviews dimension maybe…
- European dimension? – other languages
- Averaging 2000 visits per month
- Searching by other portals – e.g. ETNA

www.speechbubble.org.uk

www.appsforaac.net
Why AppsforAAC?

- New mainstream devices with unique selling point and software delivery mechanism
- Path to hard to find SLCN & AAC software on Ipods, Iphones, Ipads and Android devices
- Hard to keep up with this new and rapidly expanding field
- 65 AAC apps in January 2011
- 133 AAC apps by June 2011
- 280 AAC apps by October 2012
- Desire to complement SpeechBubble
- But not the same....

What does it do?

- Comprehensive list and description of AAC apps
- Software is categorised (eg “AAC: text-to-speech”, “AAC: Word predictor”, etc.
- Types of speech are categorised (“Recorded”, “Synthesised – Acapela”, “Synthesised - Realspeak”, “Synthesised - “AT&T”, etc.)
- Size of the app is described

What next?

Maintenace

- Funding
- Suppliers to keep us updated
- Ensure sustainability
- Integration with SpeechBubble?
  - Greater diversity of hardware
- DLF acting as a portal to this data
  - Exporting from Speechbubble site

Contact

David Colven or Will Wade
The Stables, Jericho Farm Barns
Cassington, Oxfordshire
OX29 4SZ
Email: dcolven@ace-centre.org.uk
wwade@ace-centre.org.uk
Website: www.ace-centre.org.uk
ANNEX 15
Assistive Technology Data – Denmark
www.AssistData.eu

Thomas Lyhne
Specialty Consultant, AssistData
The National Board of Social Services

AssistData - Background

• Purpose
  – Ensure that all citizens in Denmark from one single website has easy and free access to detailed and comparable information on assistive products, primarily on the Danish and secondarily on the European marked.
  – To support the Danish public system for handling and providing assistive products including the public reusing of assistive products and warehouse functions, case work, and the public purchase of assistive products.

• Primary users
  – Professionals (case managers, therapists, personnel at public AT warehouses, procurement officers)
  – End users and their relatives
  – Suppliers/manufactures

AssistData - Background

• History
  – Data collection - 1988
  – Internet - 2000
  – Online data collection - 2004
  – EASTIN founding partner - 2006
  – English version - 2011
  – Danish Centre for Assistive Technology (HMI) -> The National Board of Social Services - 2012

AssistData – Content and use

• Content
  – 20,000 product series
  – 1000 suppliers
  – Literature references
  – Forum
  – Principal rulings
  – News

• Use
  – 65,000 – 75,000 visits per month
  – 6.5 page views per visit
  – 10 % en-us/en browsers
  – 85 % da-dk/da browsers

AssistData – Data Collection and Maintenance

• Data Collection
  – Web forms
  – Spreadsheets (export/import)
  – 300 new products each month
  – 1500-2000 updates per month

• Maintenance and quality control
  – Classification
  – Mandatory fields and information
  – Product identification

AssistData – Interfaces

Hjælpemiddelbasen – www.hmi-basen.dk
AssistData - Interface

Look up in Europe

Commode shower chairs with castors

Check the shower chair in a list of products

Related and associated information

Human-driven wheelchairs

Effect of a patient-supported power-assisted wheelchair on the functional capacities of persons with disabilities

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ANNEX 16
ETNA

Information Services in Half a Microcentury

John Gill
12th December 2012

Background

- Engineering scientist
- Over 40 years working on research for people with disabilities
- Worked in 42 countries
- Over 250 publications

Scope of Activities

- Ambient Intelligence
- Assistive technology
- Biometrics
- Braille and tactile data
- Embossed graphics
- Financial transactions
- Inclusive design
- Interactive digital television
- Keypads and user interfaces

- Labelling and packaging
- Mobility and orientation
- Public terminals
- Research priorities
- Standards
- Telecommunications
- Transport
- Typefaces
- Smart Cards

Information Services

- Primary audience was those interested in non-medical research for blind and partially sighted people
- Now include accessible ICT (typical user is designer of a ticket selling machine at a railway station)

Format

- Originally produced in printed form from digitally stored files
- Currently web-based files in HTML
- No immediate plans to convert to searchable databases

Guidelines for Accessible ICT

- Application areas (eg Transport, Financial transactions, Television, Smart homes, eGovernment)
- Technologies (eg Keypads, Displays, Biometric systems)
- Related aspects (eg Icons, Training, Privacy, Legislation)
- Environment (eg Access control systems, Signage, Steps and ramps)
- User groups (eg Demographics, Physical impairments, Ageing population)

www.johngilltech.com/guidelines/guidelines_list.htm
Checklists

For each feature, classified as to whether it is of no significant benefit, minor benefit or major benefit for people:

- Visual
- Hearing
- Physical
- Cognitive
- Ageing

For an example, see: www.johngilltech.com/guidelines/checklists/pats_checklist.htm

Projects on Accessible ICT

- Provides brief details of project leader (plus contact details), other partners, funding, brief description of the project
- Predominantly European projects
- In need of updating
- Indexing problematic

www.cardiac-eu.org/projects

Standards relating to Accessible ICT

- A few standards directly relating to accessibility
- Mostly mainstream standards
- Links standards to standards committees

Currently at www.cardiac-eu.org/standards
But will be moving to www.johngilltech.com/standards

Agencies for Blind and Partially Sighted People

- International scope
- Problems with agencies descriptions of their services

Currently at www.snapi.org.uk/info/agencies
but in process of being updated and moved to www.johngilltech.com/agencies

Assistive Devices for Blind and Partially Sighted People

- About 3000 devices described with Name and contact details of manufacturer
  Description of the product
  Photograph (if available)
  Price
- Some years out of date, and no funding to update

Techniques

- Methods for a disabled person to do some task
- Frequent reinvention of the wheel (not always ‘round’)
- No available information resource
- Very difficult to index
Research Projects to be Undertaken

- Confinned to projects of potential benefit to blind and partially sighted people
- Classified by primary discipline (e.g. computing)
  level (e.g. suitable for a Master’s project)
- Circulated to all British universities in February
- Generated significant interest (some longterm)
- Required considerable backup

Dr John Gill OBE, DSc, FIET

John Gill Technology Ltd
1 The Grange, 85 High Street
Iver, Bucks SL0 9PN

Tel 07590 982 732
johngill@btconnect.com
www.johngilltech.com

A micro-century is 52 minutes 36 seconds