







Empowering Disabled users and carers through the Ethical development and Care provision of assistive Technology (EDECT)

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Facts and figures for disability/ aging sense of the sens

- 1 billion around the world live with some form of disability
- 80 million in European union > 15% of population, significant increase in aging population
- International Monetary Fund 2006 projected increase in number of retires from 75 million to 133 million by 2050





Assistive Technology (AT)

How to empower less able individuals to a level

- which permits them to remain in their own homes, and work
- socialise and
- undertake their activities of daily living with reduced dependence on care assistance,

whilst simultaneously encompassing both the rights and importantly changing society's attitude?

Assistive technology may help!







 EDECT brings together the two previous Interreg IVa 2Seas projects Autonomous and Intelligent Healthcare System (SYSIASS) and Dignity in Care (DIC)



SYSIASS



- The aim of the project was to design and implement a robotic powered wheelchair with assisted navigation
- Interface with commercial wheelchairs
- The main focus: developing a wheelchair that provided assistance to the user, helping them to avoid collisions whilst maintain control over the technology without taking over control













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SYSIASS





Questionnaire

- How satisfied people were with their current powered wheelchair
- How interested they were in having an assisted navigation system help them avoid obstacles,
- And help them learn drive the wheelchair



SYSIASS







 Whilst nearly all were interested in principal of driving assistance or collision avoidance

Interest became more divided when taking away the control was suggested.

 Professionals and care givers had the opposite point of view to that of the users! e.g. tool for learning to drive



Points from trial



 Users did not like the chair to take control from them. Preferred to retain control and accept the increased risk



- The alignment of the chair with doorway was critical if a collision was to be avoided
- A second system was developed to prevent collision yet allowing the user to feel they are in control



What was learned?



SYSIASS DISABILITY AND INDEPENDENCE

- The users must feel they are in control when corrective measures are required
- The need for training and support was highlighted
- For any design to be successful user's perspective must be taken into account



Clinical trials





- After technical development and evaluation by able-bodied volunteers
- 32 disabled people tried the technology in clinical trials (France)
- Points from trial
- Users did not like the chair to take control from them



Dignity in Care (DIC)



- Partners from Lille, Dorset,
 Zeeland and Flanders
- To improve the impact of ethical reflection and practice, by students and professionals using the sTimul experience in a Care Ethics lab

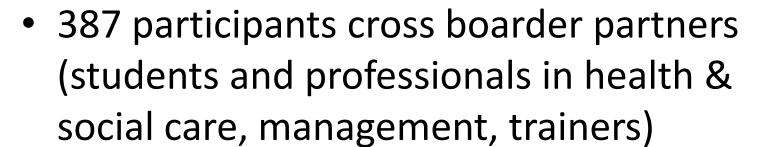






DIC







- Simulation in a fully equipped care environment (2 days and 1 night)
- Participants experienced vulnerability and the impact of care
- Focus was on attitude rather than core technical and clinical skills



DIC





- After the simulation participants reflected upon their experience coached by an ethicist
- Next step: sharing experiences and exchanging good practice through regional networking events, cross boarder study visits and a virtual communication platform
- International Evaluation Expert Group (IEEG)



Methods used





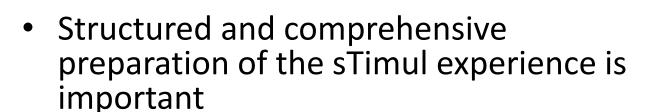
Several methods were used to collect data for evaluation purposes

- Questionnaires
- Interviews
- Group discussions
- Participants' reflection sheets
- Resonance group of care receivers in each region- 122 service users involved



Key learning points- DIC







- Maintaining the participant's character role impacts the learning outcome
- Reflection throughout the experience
- Sharing experiences and exchanging good practice via cross boarder and regional networking deepens the learning process
- Dignity is boundary-less and is about paying attention to the person and relationships



Lessons learned from both projects EDECT Capitalisation

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- Good Care is not only about moral or ethical theories, but also about the empowerment of both care receivers and care givers
- It is vital to involve users in the design of technology not just to understand their perspectives but also the demands that introduction of technology will contain
- The role reversal experience methodology in DIC highlights that adopting AT in health can be fully understood when all relevant parties are involved
- Evaluation in both projects however using different tools





Benefits of cross boarder collaboration

- A positive environment to learn from different cultural attitudes, which help understanding of how and why we operate the way we do as well as learning from similarities
- A way to develop strong working relationships and identify common areas of interest for future collaborative work
- A network to develop innovative projects with a multidisciplinary and multicultural team
- An opportunity to develop cross-disciplinary research projects needing different skills



Holistic provision of AT EDECT's role



- The aim of developing and providing AT is to improve quality of life for users, their families and their carers
- EDECT has began to discuss what it means in practical terms to develop and/ or to provide technology in an ethical and empathic way
- Identifying and analysing factors that affect the design and provision of AT is what EDECT has begun to address







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