

Kungliga tekniska högskolan KTH School of Computer Science and Communication CSC Human Computer Interaction HCI

Stockholm, SWEDEN

Previous collaboration, projects and acquired funding

2007 - 2009 UTE - useful technology/entertainment

Movementbased interaction game (Nintendo Wii/Playstation) within elderly care.

2007 –2009 MONAMI - Mainstreaming on Ambient Intelligence (EU)

Testing assistive technology for the elderly.

2005 - 2006 FAUST - Faust or Disiventing the A-bomb? (EU)

In cooperation Sir Joseph Rotblat, Klesidra and Littlefisch.

A mixed project focusing on responsibility for ones action. Theatre play, discussion panels, interviews with old with reminiscences, work with teenagers on peace and threat and better inventions.

2004 - 2005 INSCAPE -Interactive Storytelling for Creative People (EU) Partner focus on ergonomics in the interaction situation when designing and programming for animation. 2000 – 2003 INTERLIVING Designing Interactive, Intergenerational Interfaces for Living Together (EU)

2001 – 2004 SHAPE Situating Hybrid Assemblies in Public Environments (EU) The project developed through participatory design interactive mixed-reality installations and exhibitions.

1999 – 2000 ERENA Electronic arenas for culture, performance, arts and entertainment (EU) The project developed art, performances, exhibitions and technology within mixed and augmented reality.

1999 – 2001 KIDSTORY Developing Storytelling Tools for Children, with Children (EU)



Yesterday today and tomorrow...

- Think of the domain as a design of a system were both humans and technology are material.....pieces that together makes an action or fulfill the purpose of the design
- Drive a car drive or a train is now almost only a cognitive skill. There is a minor focus on the motorical skill needed.





my own research/practice

I will present the project within elderly-care using Nintendo Wii Sports and some research stuff around design of physical movement...

Design of both the services and the quality of our interactive experience

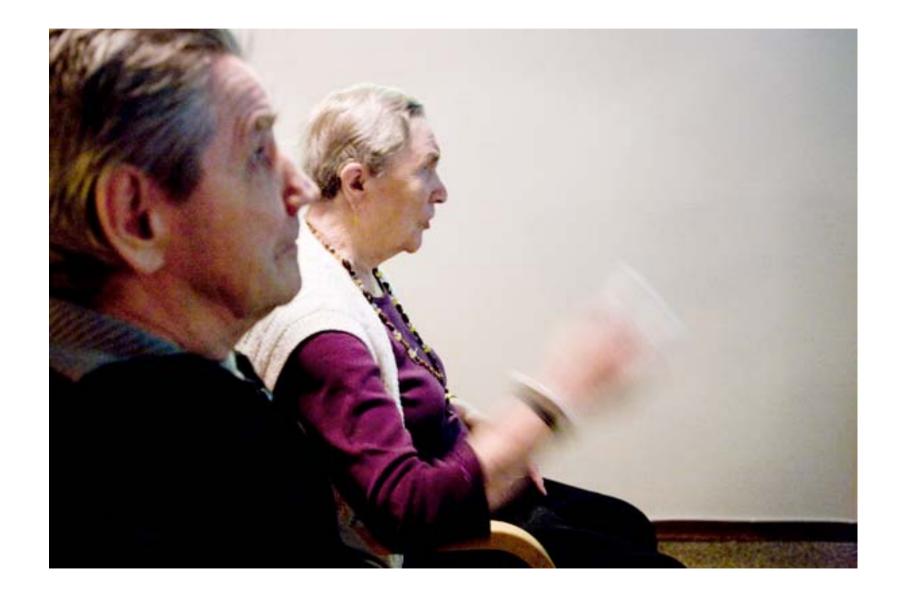


When designing ICT-tools and system there is also a design of a physical movement that we could benefit from adressing in a more specific way. Both from ergonomics and experience perspective

Game over or play it again and again...



- "it is fun we are having a match almost every day"
- Nintendo Wii Sports just a game?
- How do we change the healthcare organization to use the resources in FUN?





Target group and for what purpose?

- Wii were launched in Sweden December 8, 2006
- A reaction towards the game consols that focused on the graphics.
- Target group between 9 15 years old but were said to be a "family game".
- Almost directly gets through the barrier into rehabilitation and elderly care
- Now you can find studies from Canada, USA, Asien and Europa were the Wii Sports has been used as a mean for professional purpose within these domains
- It is giving the elderly care a n arena for equal cooperation and competition despite personal differences



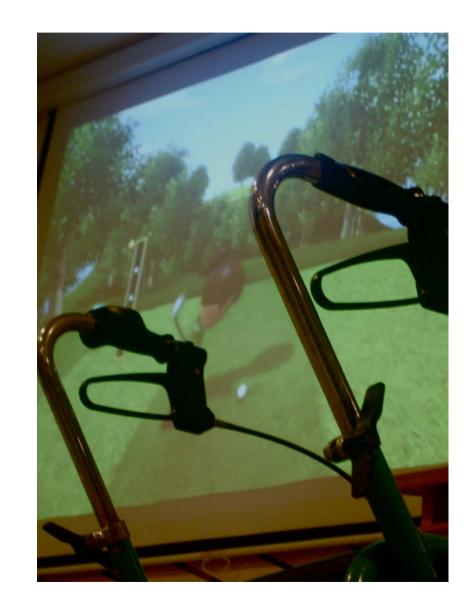


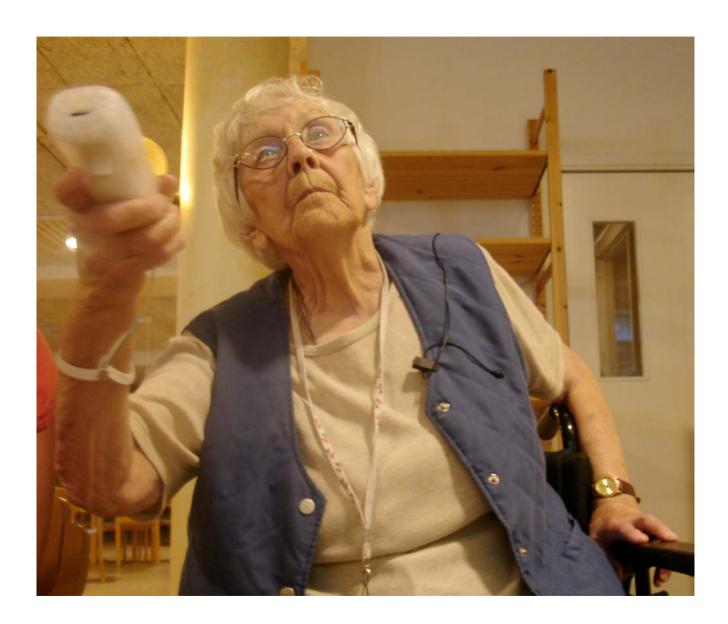




























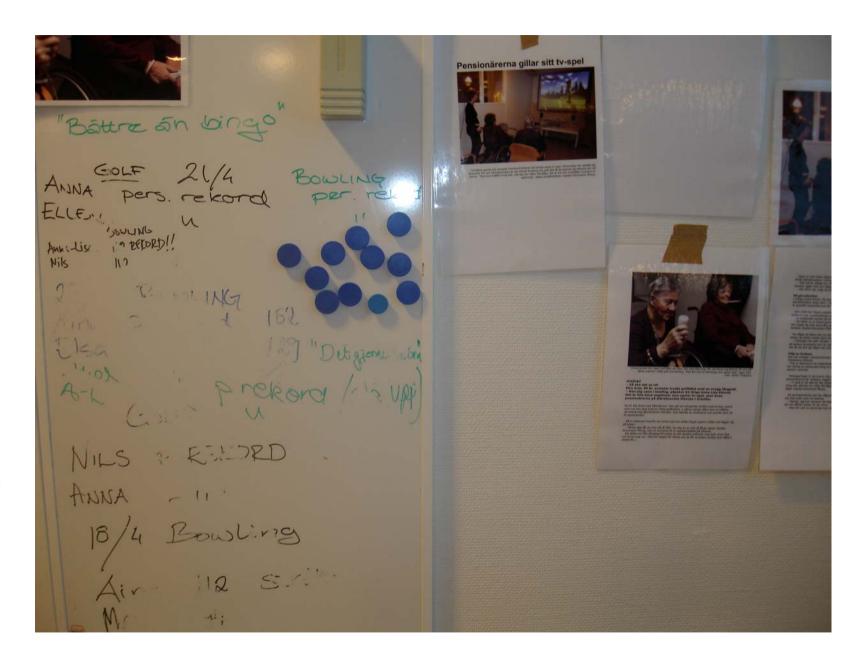


















Four areas to support health when getting old



- Physical activity
- Healthy food
- Social relations/support
- To be part of/belong to/to have a role to fulfil

(Statens Folkhälsoinstitut R 2005:6)

How can this be done?



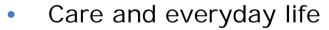
- We have ideas about what old people wants do do...
- We have not been able to organize elderly care in a sustainable way - we think we know what old people need and want...

Use the movement

- Joy of movement
- Motion for a purpose not for just checking the range of movement
- Something is at stage win or loose
- excitement
- On stage
- "In real time" positive stress



Design of the organization



- Sorry but I live on your workplace
- Organization
- Knowledge skills
- Old people yesterday today and tomorrow





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