



This presentation is part of the COGAIN Deliverable D3.4

Eye Control Hints and Tips

by

the Network of Excellence on
Communication by Gaze Interaction

www.cogain.org

(Please click on speaker icon on each page to hear the presentation)



Who can benefit from Eye Control and how?

Mick Donegan, ACE Centre

COGAIN aims...



- Partners to share knowledge, research and experience
- To develop and adapt high-quality software and hardware
- To meet the needs of as many different user groups as possible

COGAIN Partners...



- Service providers
- Universities
- Commercial Partners

How are we finding out what users need?



- Case-study based
- Action-research
- Working with wide range of potential eye control users

Wide range of potential users...



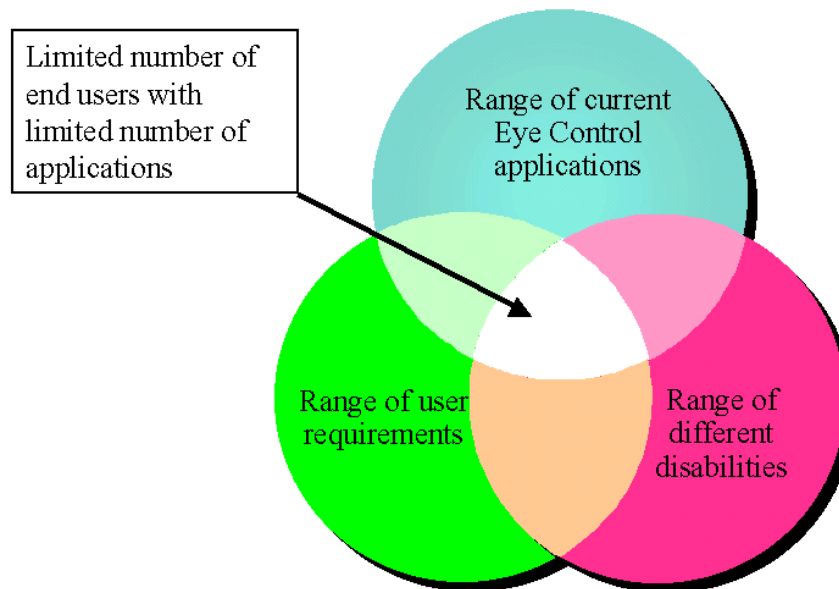
- Degenerative conditions
- Stroke
- Cerebral palsy
- Spinal Lesion
- Locked-in syndrome
- etc...



What are we finding out...?



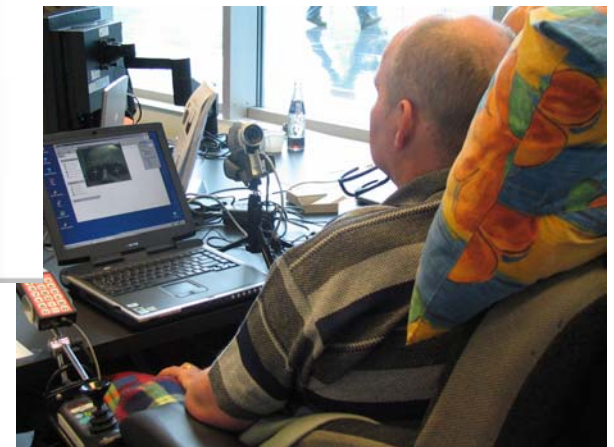
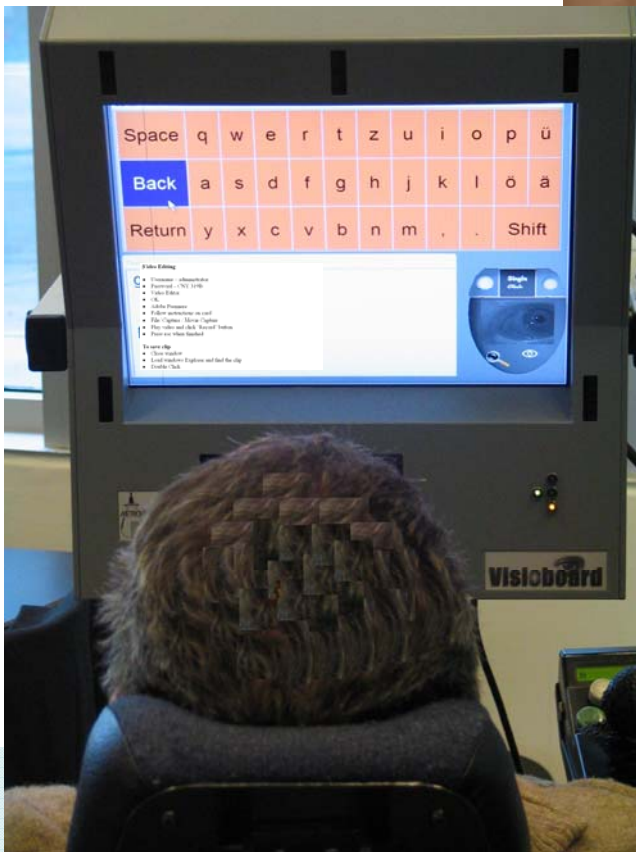
Diagram to illustrate the current limited use of Eye Control Technology





...only a small proportion of people who could benefit from eye control technology were actually been benefiting.

How can people benefit?



- Communicate
- Control the computer
- Control the environment



Who can benefit?

Two categories of potential end-users...



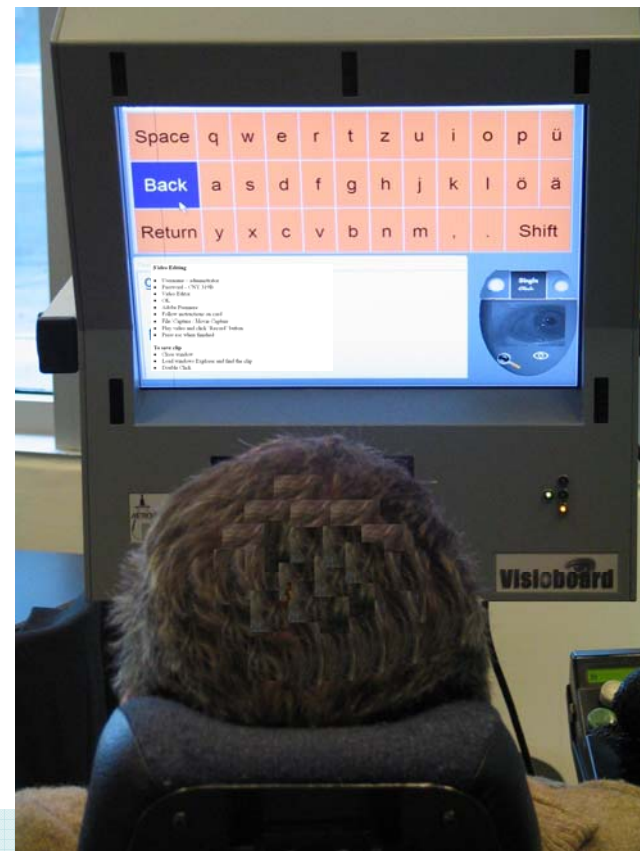
1. People who can only use eye control.
2. People who choose to use eye control.

1. People who can only use eye control...



John

- 12 hours a day
- Communication
- Internet access
- E-mail



John



'I keep in contact with people daily. I can still make a difference in somebody's life...'

'It's my way of keeping up with what's going on in the outside world...'

'...Freedom...'

Bjorn Andre



Creating a CD with the HP USB CD-Writer

- First Insert a Blank CD-ROM into the drive
- A dialog screen will automatically appear (after a few moments) titled Creator
- Click on HP Record Now
- A screen now appears giving you three options.
 - Make an exact copy (make an exact copy of a CD)
 - Make a Music Disc (for creating a music disc to play on your PC or stereo)
 - Make a data disc (for copying different files or folders onto CD)
- Choose one of these options which suits the type of CD you want to

The screenshot shows a Microsoft Word window with a blue title bar and menu bar. The document content is centered. An "On-Screen Keyboard" window is overlaid on the bottom half of the document, showing a virtual keyboard with various keys and function keys. The Windows taskbar at the bottom shows the Start button, system tray, and several open applications including "Volume...", "Yahoo!", "2 Wind...", "2 Micro...", and "On-Scre...". The system clock shows 22:21.



2. People who might choose to use eye control...

Kathrin



- Aged early 20's
- Athetoid cerebral palsy
- One of the first non-speaking students to go to a German University.

“I am writing with...my eyes.”

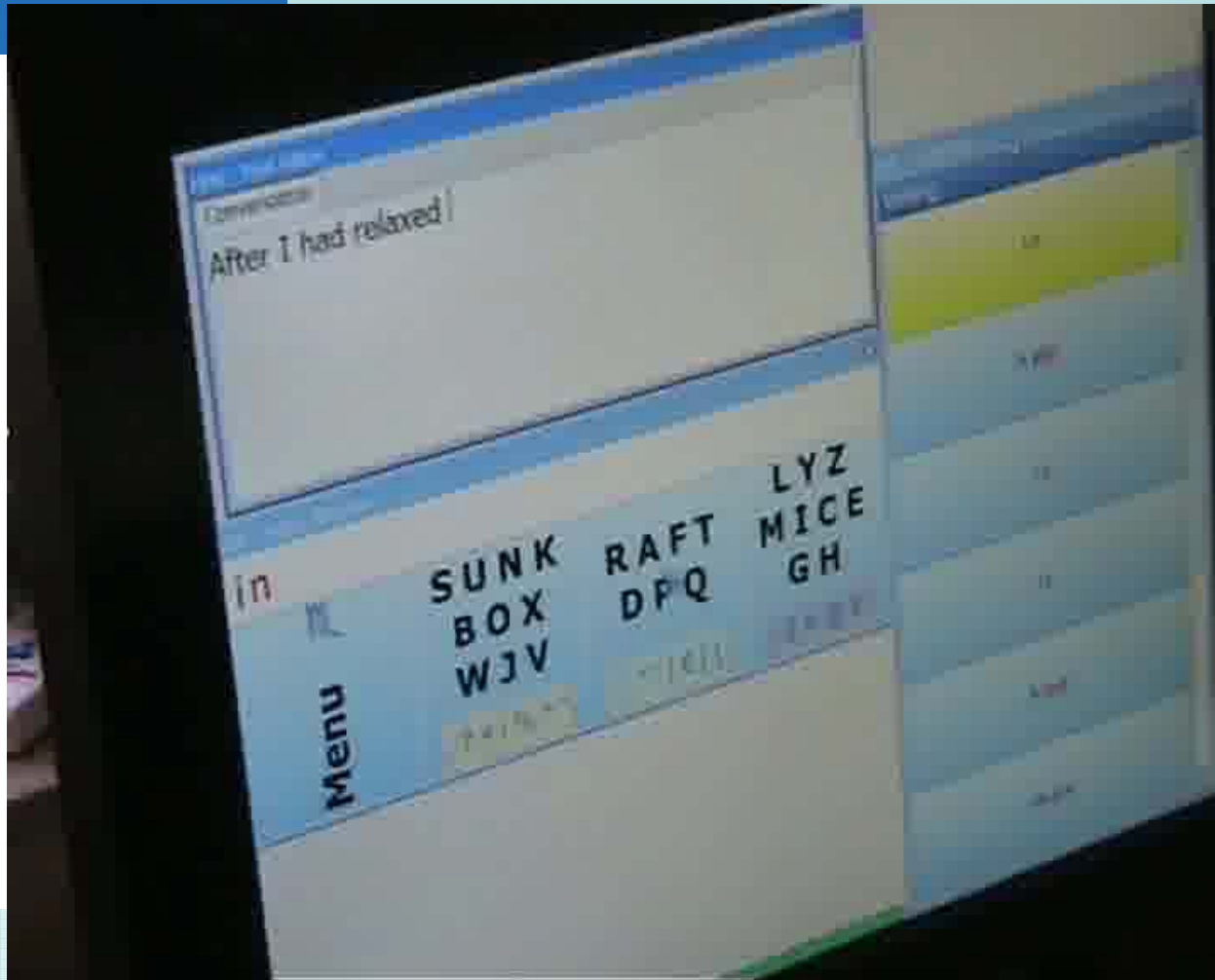


(Please click on the picture to play the video)

[Click here to play the video from web](#)



“After I had relaxed...
it works perfect...”



*(Please click on the
picture to play the
video)*

[Click here to play the video from web](#)

Kathrin's comments...



'...Switches can be very tiring over long periods.'

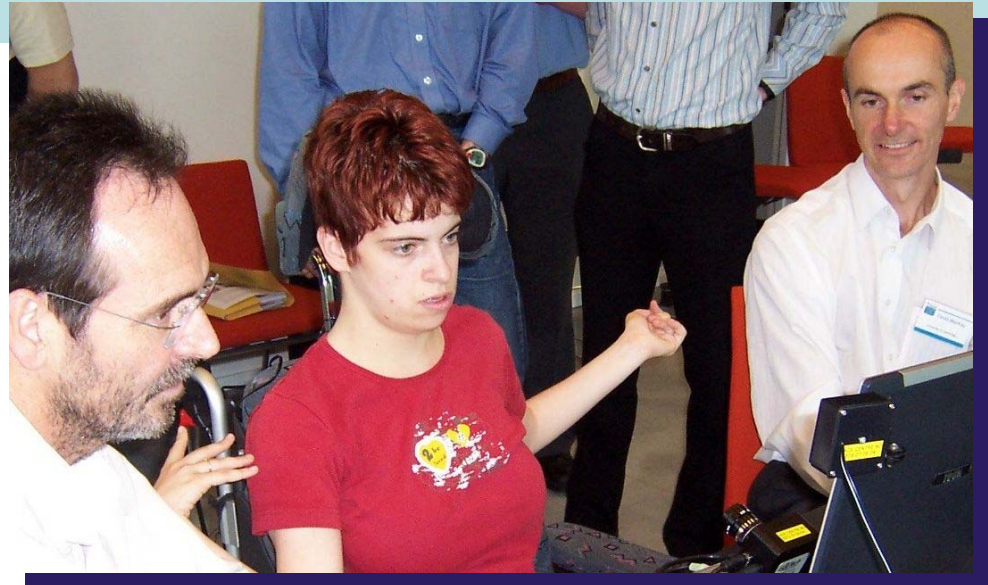
'...With eye control I can write long texts without getting sore muscles.'

'...at least as fast as with my switches.'

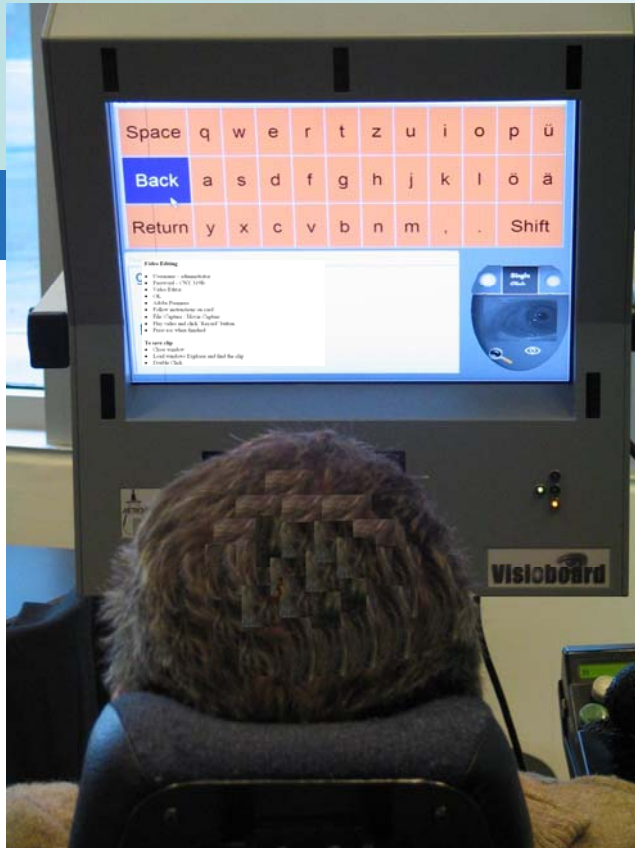


“...longer texts in the same time
with less stress”

Look at the difference between headmouse and eye control ...



Which do you think Kathrin would choose ?



necessity + choice =

Out of 450 million people in the European Union...



CONDITION	NUMBERS
ALS / MND	27,000
Multiple Sclerosis	135,000
Cerebral Palsy	900,000
Spinal Cord Injury	36,000
Spinal Muscular Atrophy	54,000
Retts Syndrome	29,970
Muscular Dystrophy	126,000
Brainstem Stroke	688,500
Traumatic Brain Injury	675,000
TOTAL	2,671,470



From COGAIN's experience with user trials so far, if given a choice, a significant proportion of 2,671,470 would use eye control for at least some of the time...

To find out more, please go to...



www.cogain.org

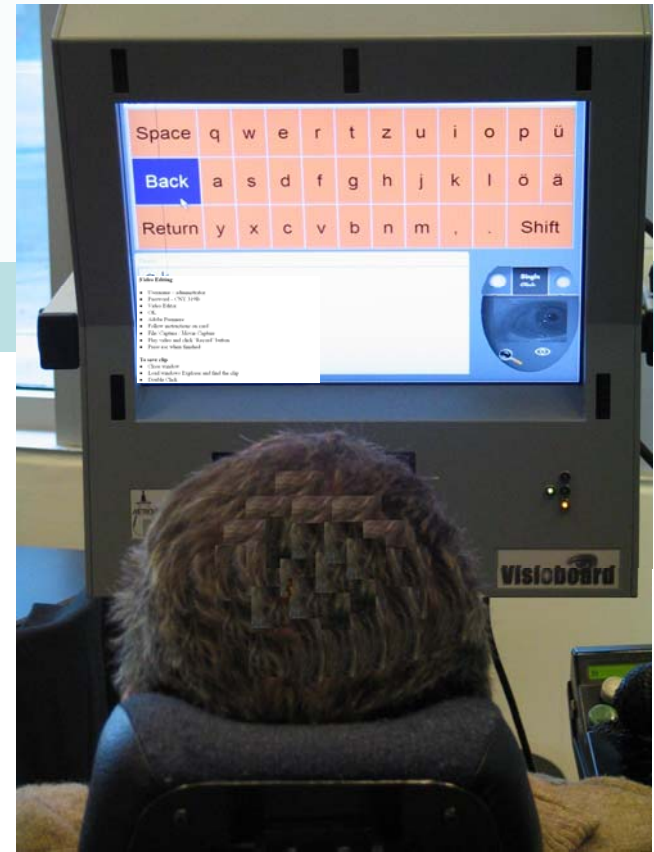
Downloads...

Deliverables 3.1, 3.2 & 3.3

Eye control is...



- Here – now!
- Reliable
- Well-supported
- Not just a necessity...
- ...but also a choice...



...meaning less stress...

...and more freedom...

...for many, many more
people with disabilities.



COGAIN would like to express its sincere thanks to those who have been kind enough both to be involved in the project and to give their permission to be used as case studies in this presentation in order to help others.

For more information...



www.cogain.org