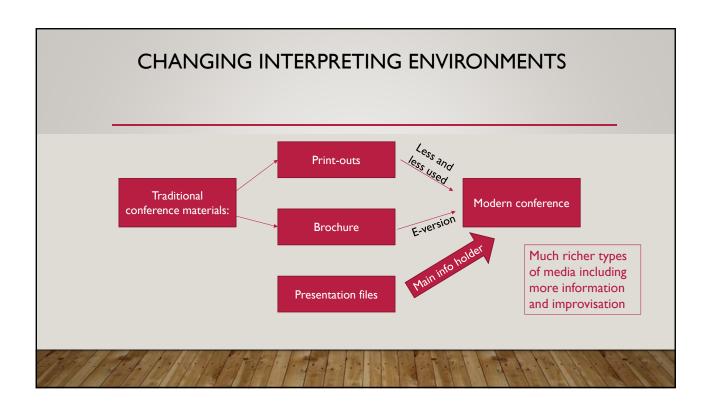
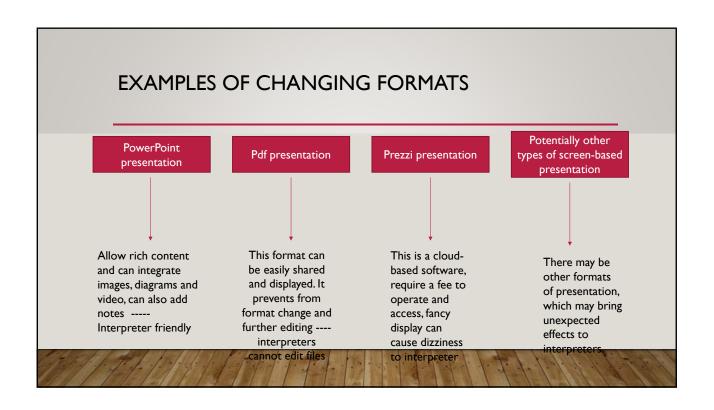


BOOTH CONDITIONS

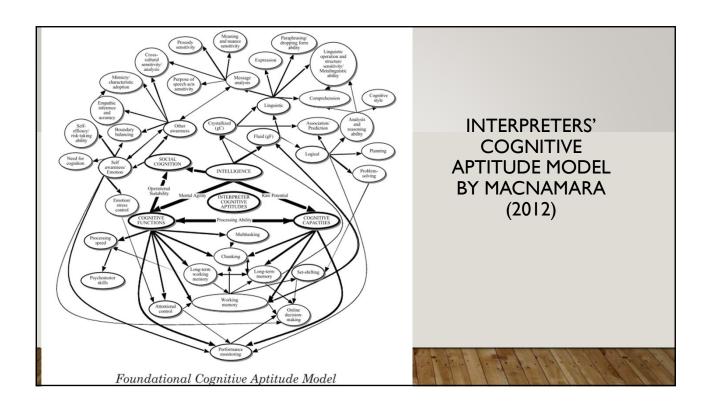
Some important aspects (of traditional booth)

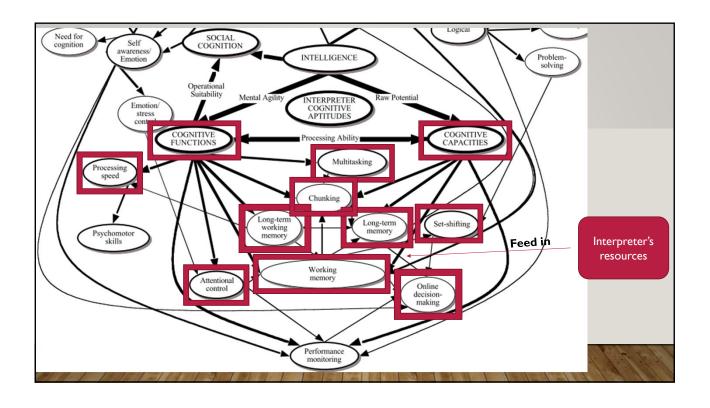
- Quietness of the booth (so interpreters can concentrate)
- Sound quality (to provide clearer speech)
- A good view of the conference/meeting proceedings. (to synchronise explanations)





(c) Essex University 2016



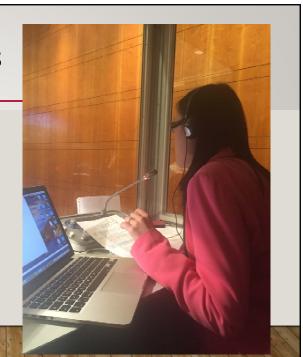


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INTERPRETERS RESOURCES

- Conference agenda
- Speaker's presentation file
- Glossary

Materials are on separate media: laptop, paper, and notepad.



Disruptions and challenges from the conference environments

lighting disruption

Music disruption

screen size and image quality

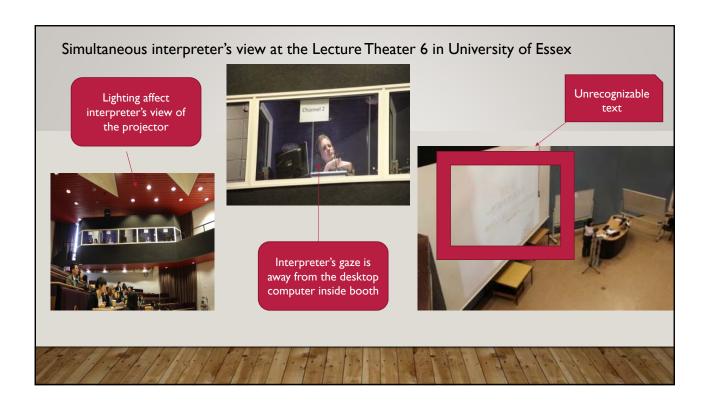
variation

screen position



Good and direct view, relatively small room, dimmed lights

No view of the main screen, side view of the speaker, large conference room



COGNITIVE DEMANDS

Stroud Number; number of elementary mental discriminations (between 5-20 in people)

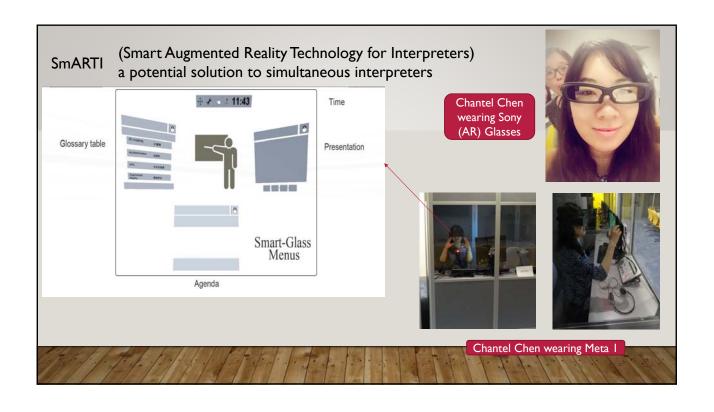
- Working memory
 - eg remembering large vocabularies for specialist areas)
- Understanding reasoning and manipulating information
 - Understanding the logic or sentiment of what is being said so that can be convey not just word-for-word translation)
 - Using long glossary lists
 - Resolving unfamiliar (usually unexpected) words not in glossary (sometimes accessing internet, where, even the typing requires cognitive effort)
 - · Dealing with changes from scheduled order or idiosyncratic behaviours of speakers

27/6/16

SMART TECHNOLOGY + INTERPRETERS = BETTER PERFORMANCE?

This work-in-progress research is exploring how smart glasses can:

- Extend working memory (what information to provide, and how, eg online glossaries, annotated speaker names etc)
- How cognitive load can be reduced through better HCI (eg placement of information in field of view, automating searching, co-interpreting linkage)





STUDIES ARE NOT JUST COVERING COMPUTATIONAL ISSUES

FOR EXAMPLE - META I GLASSES

- Too heavy to wear for more than 3 minutes
- Not suitable for girls with long hair
- Colored shades affect vision
- Strap creates discomfort

PROJECT STATUS

- Work-in progress
- SmARTI (Smart Augmented Reality Technology for Interpreters) model created
- Meta-I scoping trials data being analysed to allow next version of platform and evaluations to be created and evaluated



REFERENCE

Macnamara BN (2012) Interpreter Cognitive Aptitudes. J Interpret 19:9–31.