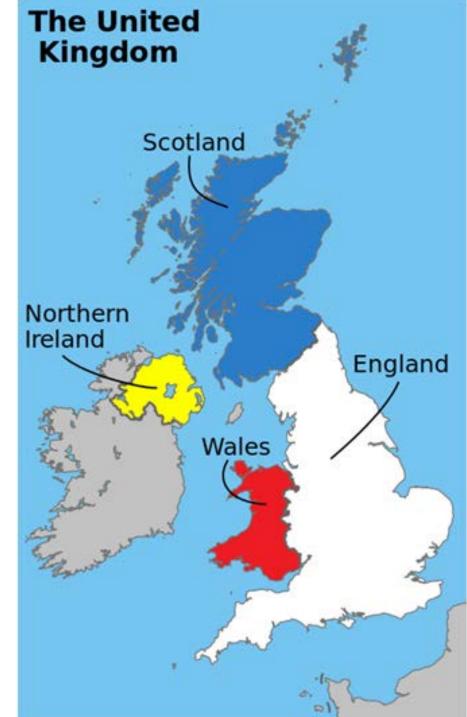
Inclusion and Assistive Technology for Dyslexic Students - a UK Perspective

> Mrs E.A. Draffan University of Southampton, UK



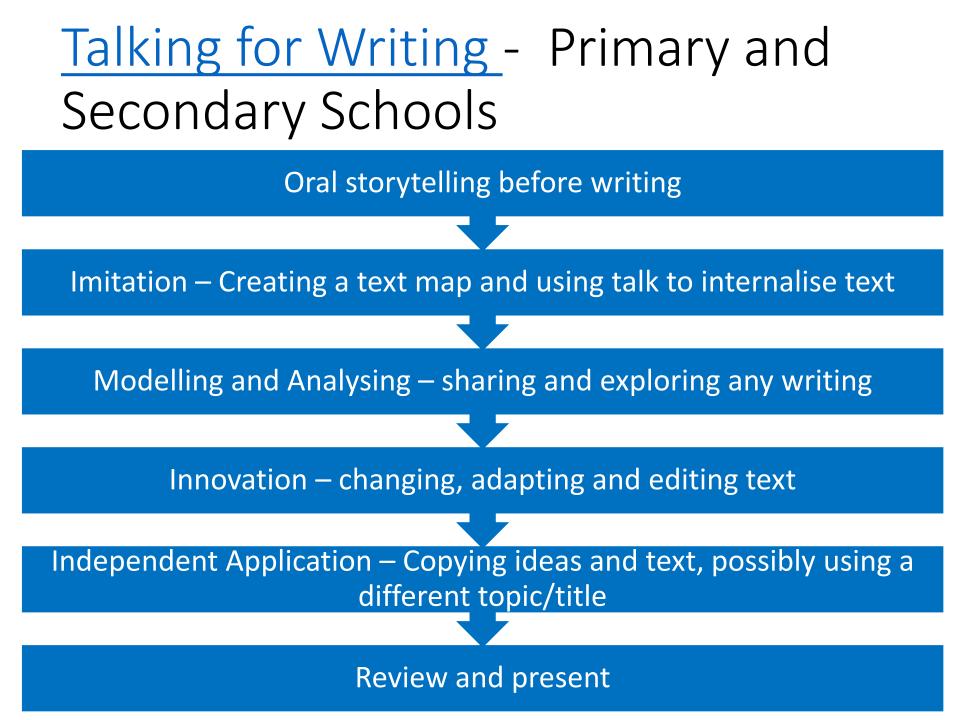
Inclusion – buzzword or reality

Graduated Approach - Three Wave Model - England

Wave 3 Additional highly personalised interventions

Wave 2 Additional interventions enabling students to work at age/skill related expectations or above

Wave 1 Inclusive quality first teaching for all



Using technology...

- 1. Students are given or create a story framework using images (e.g. in PowerPoint) which is imported into Audio Notetaker.
- 2. They then record their ideas about the pictures and the story alongside the images. They could be prompted by an adult.
- 3. They re-listen to the audio and use the colour marker to identify different parts of the audio (e.g. marking out descriptions, action points, speech etc). They can edit, reorder and add to the audio until they feel they have the basis of the story.
- 4. Then they can either attempt to start writing the story from the audio or send it directly to Dragon NaturallySpeaking for transcribing (in this case they may have added in the recording of punctuation in the editing stage).
- With thanks to Abi James and Sonocent Audio Notetaker Case Study

 <u>https://www.microlinkpc.com/wp-content/uploads/ulceby-web-sp.pdf</u>

Waringstown Primary School, Northern Ireland



Examples of Inclusion with Read and Write from TextHelp

CALL Scotland ask ...

• Can you be a...

- Successful learner if you can't read learning materials and examination papers?
- Confident individual if you depend on others to read or write for you in exams?
- Responsible citizen if you don't have access to information?
- An effective contributor if you can't speak, write or communicate independently?

• Digital papers can help pupils become...

- more successful learners if you can read learning materials when they want, where they want;
- more confident individuals if you don't have to rely on a reader or scribe;
- more responsible citizens if you are learning to be independent and self-reliant;
- more effective contributors if you have learned the ways and means to contribute yourself.

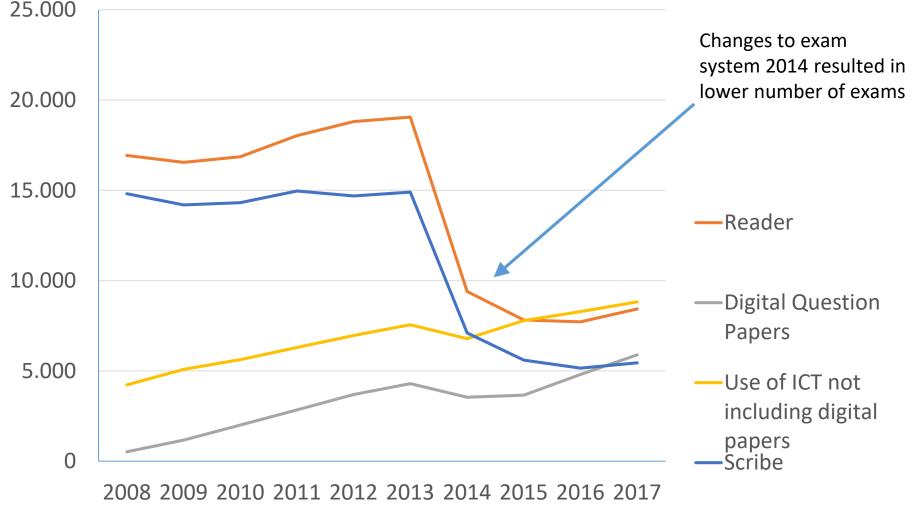
http://www.adapteddigitalexams.org.uk/common-assets/cm-files/files/digitalexaminations-at-kinross.mp4

Digital Examinations - Kinross

Digital Examinations

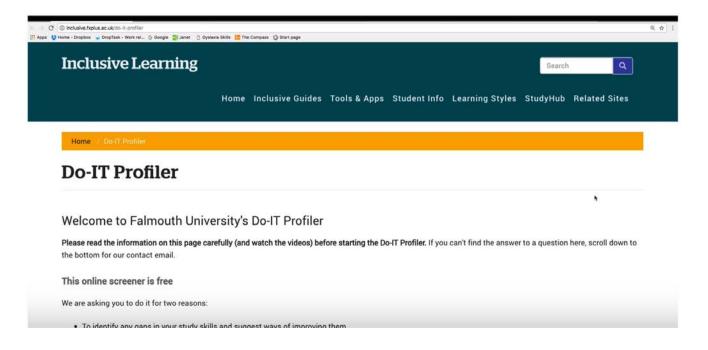
Scottish Experience: Technology is replacing readers and scribes





Do-IT Profiler - Wales

 Personal Profilers, Education, Into Employment, Employment and Prison. <u>Getting started with the</u> <u>Do-IT Profiler</u>



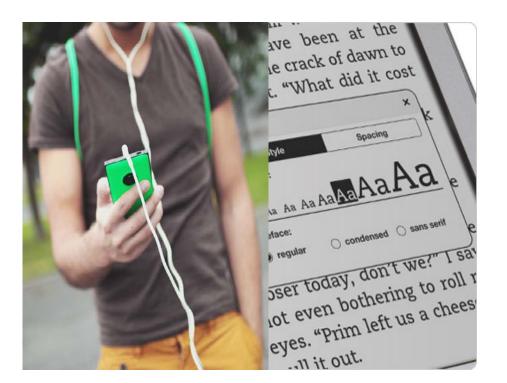
Digital Accessibility & Assistive Technology

Digital Accessibility



Assistive Technology

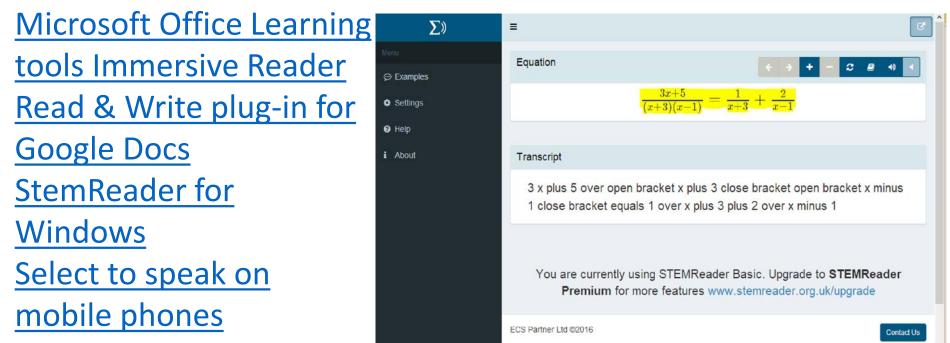




Is Assistive Technology more inclusive now?

Every major operating system has:

- Text to speech built in
- Free or low cost speech apps available
- Ability to alter fonts and colours



But is Assistive Technology being used?

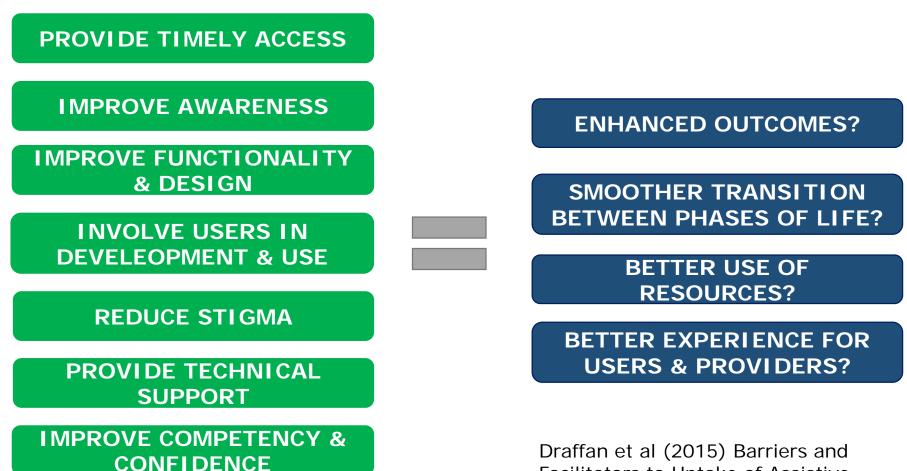
20% of candidates at GCSE/A-level qualifying for a reader are using text to speech

83% of students receiving text to speech through DSA found it useful (Draffan et al, 2013).

Not just a reading/dyslexia problem...

Studies have shown between 30% and 70% of users fail to make use or "adopt" their assistive technology

Barriers and Facilitators to Uptake of Assistive Technologies



Facilitators to Uptake of Assistive Technologies: Summary of a Literature Exploration.

Can we influence technology adoption?

Increase ease of use

Organisation

 Can I get the software installed if it is not built in?

Technical

- Is the interface easy to use?
- Will I need technical support all the time?

Personal

Can I learn to use this tool?

Perceived benefits

Organisation

 Is this going to be worth the money I spend on it if it is not built in?

Technical

- Is this going to bring the benefits I need?
- Will it support the tasks I need to undertake?

Personal

• Will I feel comfortable using this?

Raising Awareness of Digital Accessibility and Assistive Technologies

- Embed digital accessibility as part of the continual professional development for all academic / teaching roles
- Make content available under Creative Commons licences for repurposing and provide as Open Educational Resources
- MOOCs free online courses

Examples

https://www.futurelearn.com/courses/digitalaccessibility

https://slidewiki.org/

Conclusion

'a mismatch [of technology] can hamper the student's ability to use coping strategies to manage their dyslexia' (Stacey, 1998)

Thank You - Mange tak

Contact: Mrs E.A. Draffan, WAIS, ECS, University of Southampton, Southampton, SO17 1BJ, UK. ead@ecs.soton.ac.uk https://access.ecs.soton.ac.uk/