



The Case For Captioning
Web-Videos for School Use
CESI 2012 Conference

Deafness – Stats & Facts

- Two babies are born deaf in Ireland each week
- 90% born to parents without experience of deafness
- 90% are mainstream-educated (2,300+ at present)
- Each deaf child is different

Description

- Hard-of-hearing
- Moderately deaf
- Severely deaf
- Profoundly deaf

Hearing ability without aids

- Misses 20 - 35% of speech
- Misses 40 - 75% of speech
- Hears only shouted speech
- Hears lawnmowers / planes

Snapshot - Caroline

- Profound, bilateral deafness since birth
- Hearing-devices at 18 months of age
- Speech therapy began immediately
- Educated to postgraduate level
- Career in digital publishing and marketing



What Is IDK?

- Resource website for parents & educators
- Seed funding from Social Entrepreneurs Ireland
- Inclusive education where possible
- Changing mindsets

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IDK's Backers



Technology: Why classroom captions?

- The role of deafness in the inventions of the telephone, the internet, SMS texting
 - Alexander Graham Bell (telephone)
 - Vinton Cerf, Google's chief evangelist
 - Matti Makonen (Finland) – SMS inventor



Technology: Why classroom captions?

- Technology is revolutionising communication options for deaf people
 - Hearing aids: sophisticated and discreet
 - Soundfield systems: reducing ambient noise
 - Digital media
 - Captioning

Nintendo - NTT Project

- Speech-to-text output
- Real-time captions
- To DSi, or whiteboard
- DSi \Leftrightarrow 2-way comms
- Tests in two schools

Dual-screen (notes in cloud)



Australia: Ai-Live Media

- Schools-captions mandate
- Used by 10,000 deaf pupils
- Federal captioning grant
- Universal Design basis

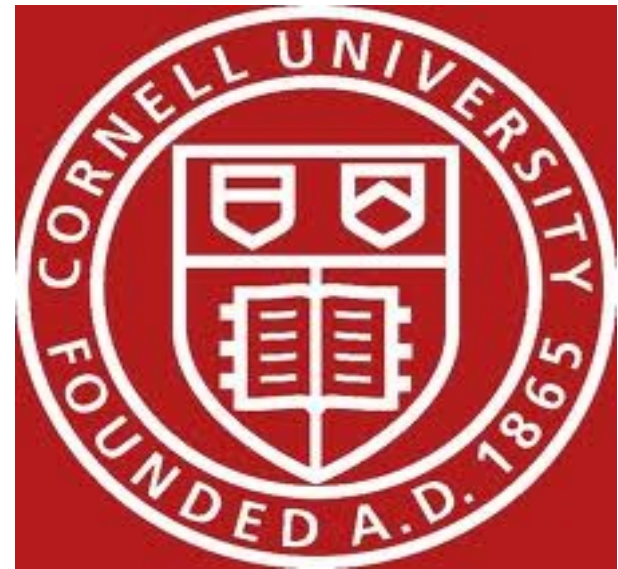
Output: tablet / big screen



Cornell-RIT-Camden College

- Captions for STEM subjects
- 30k deaf/hoh students in US
- \$1.6m NSF grant (5 years)
- May extend to high schools
- Virtual tutoring & mentoring

Tripartite collaboration





A Few Final Thoughts (#1)

- By 2012, 70% of online content will be video-based
Source: IIA, 2010
- Video will be the platform for communication for all forms of IT in the future (Cisco, John Chambers)
- ***What if you're deaf?***

A Few Final Thoughts (#2)

- Technology plays an important role but does not resolve all communication access issues
- Benefits of using ICT for deaf students



Thank you: Engage with Us!



www.irishdeafkids.ie