Demystifying Technology for Individuals Who Are Deafblind

ATC19 – May Presented by the Community Outreach Program for the Deaf



Presentation's Focus

- You will learn:
- ...about the factors that are considered in determining appropriate technology – with an emphasis on distance communication, advance communication, and internet access technology
- ... about the iCanConnect Program which provides technology to New Mexicans who are deafblind
- ...about the impact iCanConnect has had on the quality of life of New Mexicans

First Look at Technology

Low Tech ...to... High Tech

We Need to Define...

"Deafblind":

- Multiple definitions: three federal definitions, agency definitions, consumer group definitions)
- Various spellings: deaf/blind, deaf-blind, deafblind, DeafBlind
- Other labels: Combined Vision and Hearing Loss, Dual Sensory Impairment, Dual Sensory Losses, etc...

Three Other Quick Definitions

We need to first define what is meant by:

- Telecommunications Technology
- Advanced Communications Technology
- Internet Access Technology

Factors determining technology used by individuals who are deafblind:

Vision

Audition

Tactile perception

Factors determining technology used by individuals who are deafblind:

- Language and speech
- Cognition
- Reading

Factors determining technology used by individuals who are deafblind:

- Writing and typing
- Motor skills

Money

Factors determining technology used by individuals who are deafblind:

- Previous and current use of technology
- Task(s)

Reading

 Magnification ...relative size, relative distance, angular, and electronic (vision)

 Optical character readers (audition, tactile)





Reading

Braille (tactile)









Braille vis-à-vis American Sign Language

Clarity is needed here about teaching Braille to individuals whose first language is American Sign Language (ASL):

- The use of Braille particularly the contractions used in UEB is dependent on a high level of English skills (spelling and grammar)
- Not easily/readily learn by those whose first language is ASL and don't have good English reading skills

Communicating directly with another person or group of people

Asking directions on the street

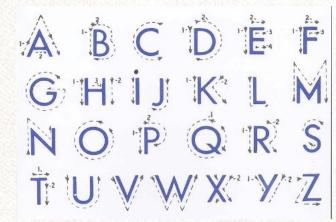
Ordering lunch at a restaurant

Conversations with another person

Communication cards

Print on Palm

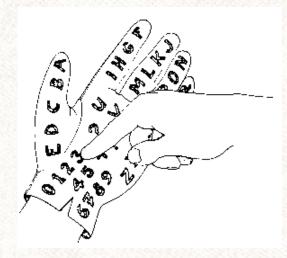




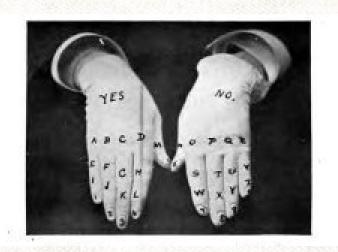


 DeafBlind Pocket Communicator (vision, Braille, raise large print letters)









 A Braille device with a smart phone (Braille)

 Bluetooth keyboard and Braille device (Braille, vision, voice, President – optional)





 Assistive communication apps on tablets (vision, audition, touch, cognition)

 Amplification such as hearing aids (including those with t-coils settings), personal amplifiers, FM/IR systems (audition)







Distance

- Telecommunications
- Advanced Communications
- Internet

- Video phones w/ larger monitors or deafblind communication facilitators/SSPs (vision, tactile)
- Nearly all video phone services provide apps for mobile devices such as tablets and smart phones (vision)





 Other video based communication such as FaceTime, SKYPE, ooVoo, and Google Duo (vision, audition)





 Telephones (mobile and landline) w/ amplification such as Bluetooth connectivity with hearing aids, streamers, amplification within the device itself, etc. (audition)





 Captioned telephones (vision and tactile)





Advanced Communications

 As stated earlier, advanced communications includes: email, texting, video communication, instant messaging, etc.

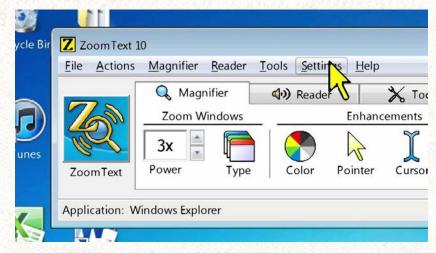
 Partially addressed above with telecommunications

Further addressed below under Internet Access

You've Got Mail

Internet Access

- Screen magnification such as ZoomText, Magnifier (Windows), Zoom (Apple) Virtual Magnifying Glass, etc. (vision)
- Screen readers such as Windows Eyes, VoiceOver (Apple), JAWS/ZoomText/Fusion, etc. (audition, tactile)





Advanced Communications

- Braille Terminals (tactile)
- "Large print" keyboards (audition)





Emails, Texting, and Instant Messaging,

Braille Notetakers and Smart

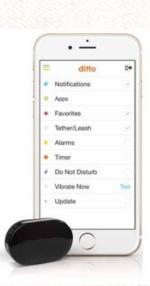
Displays



Alerting

 Doorbells, telephones/VP, weather, children crying, etc.







iCanConnect

 Formal name: National Deaf-Blind Equipment Distribution Program (NDBEDP)...

 Part of the Twenty-First Century Communications and Video Accessibility Act of 2010, Section 105, Relay Services for Deaf-Blind Individuals

Launched July 1, 2012

iCanConnect

 Every State, the District of Columbia, Puerto Rico, and US Virgin Islands

New Mexico: Community Outreach Program for the Deaf –
 New Mexico

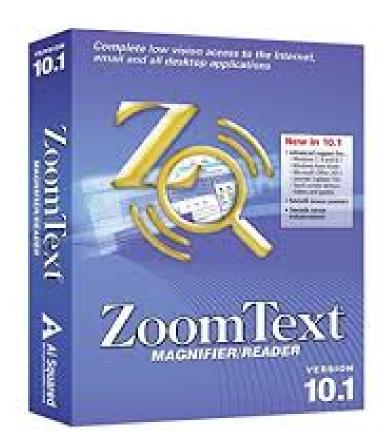


The National Deaf-Blind Equipment Distribution Program

iCanConnect's Purpose

 Provides technology/equipment for telecommunications, advanced communications, and/or Internet access

 Provides technology/equipment which may be hardware, software, or applications, separate or in combination, mainstream, or specialized



iCanConnect Eligibility

For New Mexicans who...

...meet iCanConnect's definition of deafblindness...

- ...have income that does not exceed 400% of the Federal Poverty Guidelines (ex: \$49,960/1 person – higher in AK and HI), and...
- ...need access technology allowed under iCanConnect

iCanConnect Steps

- Intake/determination of eligibility
- Technology assessment/determination of technology needs
- Ordering and installation/set up of technology
- Training on technology

iCanConnect Steps

Follow-up support if needed

iCanConnect's Impact in New Mexico

- Provided technology to over 30 New Mexicans
- Ages range from 13 93 years of age
- Provided technology to individuals who have never been exposed to advanced communications and/or internet access technology

iCanConnect's Impact in New Mexico

- Significantly addressed the isolation experienced by individuals who are deafblind...
 - Can interact more frequently/more easily with friends and family
 - √Can explore the Internet
 - √Can contact COPD to request SSP and other services

The End!



Photo of Larry in his 20s.