

AT for Hearing Access

Danny Housley
IDEAS 2019

CIDI creates practical solutions that work, with a focus on utility, ease of use, and high quality.

- Accessibility Consulting
- Braille Services
- Captioning Services
- Professional E-Text Producers
- Certified Assistive Technology

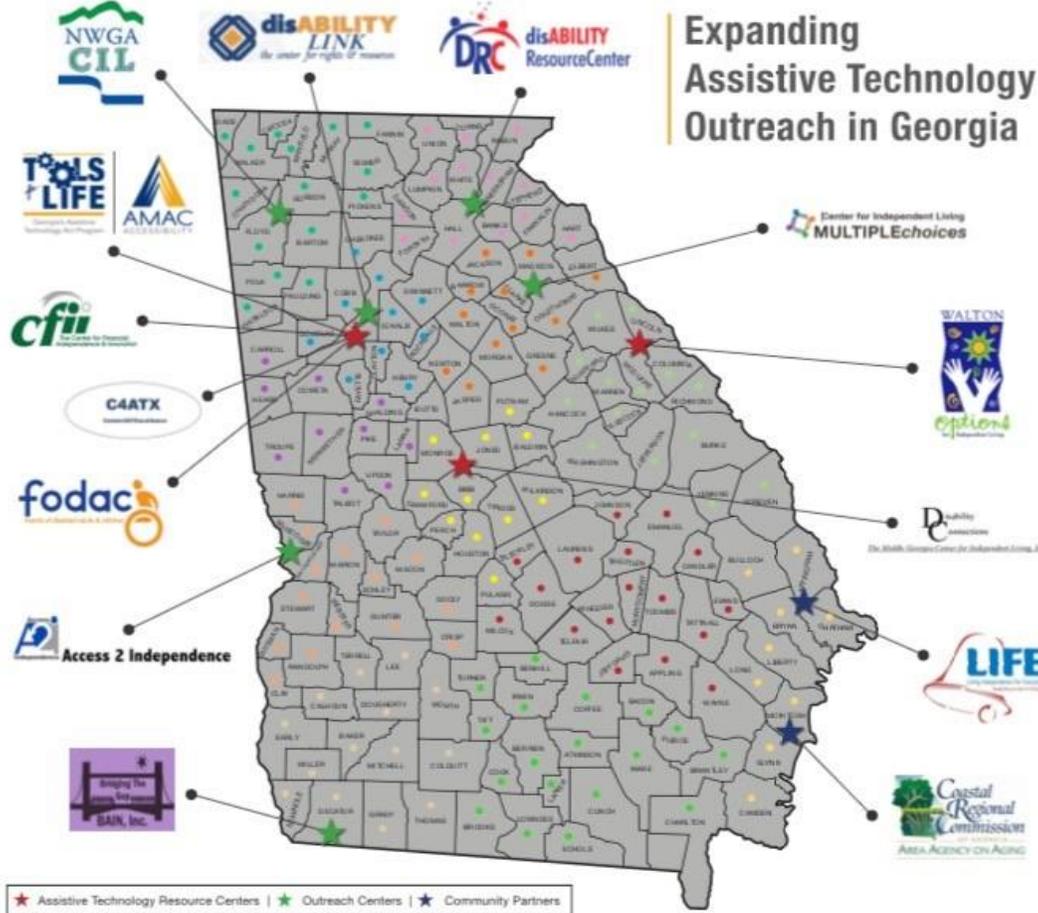
Tools for Life

Tools for Life, Georgia's Assistive Technology Act Program, is dedicated to increasing access to and acquisition of assistive technology (AT) devices and services for Georgians of all ages and disabilities so they can live, learn, work, and play independently and with greater freedom in the communities of their choice.



Tools for Life Network

Assistive Technology Resource Centers, Outreach Centers, Community Partners and Affiliates



GEORGIA'S AGING & DISABILITY RESOURCE CENTERS

- Atlanta Regional Commission Aging Division**
Cherokee, Clayton, Cobb, DeKalb, Douglas, Fayetteville, Fulton, Gwinnett, Henry, Rockdale
- Coastal Georgia Area Agency on Aging**
Bryan, Bulloch, Camden, Chatham, Effingham, Glynn, Liberty, Long, McIntosh
- CSRA Area Agency on Aging**
Banks, Columbia, Hancock, Harco, Jefferson, Jenkins, Lincoln, McDuffie, Richmond, Spalding, Wilkes, Wilcox, Washington, Wilkerson
- Heart of Georgia Area Agency on Aging**
Appling, Bleckley, Camden, Dodge, Evans, Jeff Davis, Johnson, Lincoln, McIntosh, Wilkes, Wilcox, Wilkerson, Wayne, Wilkerson, Wilkerson
- Legacy Link Georgia Mountain Area Agency on Aging**
Bartow, Carroll, Fannin, Franklin, Habersham, Hall, Harlan, Lumpkin, Polk, Stephens, Towns, Union, Wilkes
- Middle Georgia Area Agency on Aging**
Baldwin, Bibb, Cowardin, Houston, Jones, Wilkes, Peach, Putnam, Twiggs, Wilkes
- Northeast Georgia Area Agency on Aging**
Bartow, Clarke, Elbert, Greene, Jordan, Jasper, Madison, Morgan, Newton, Oconee, Oglethorpe, Wilkes
- Northeast Georgia Area Agency on Aging**
Bartow, Calhoun, Chatahoochee, Dodge, Fannin, Floyd, Gilmer, Gordon, Houston, Murray, Paulding, Polk, Pick, Wilkes, Wilkerson
- River Valley Area Agency on Aging**
Cherokee, Clay, Craig, Dodge, Harlan, Macon, Meriwether, Muscogee, Quitman, Randolph, Spalding, Stewart, Sumter, Taylor, Wilkes
- Southern Georgia Area Agency on Aging**
Albany, Bacon, Ben Hill, Berrien, Brooks, Burke, Charlton, Chatham, Clinch, Coffee, Cook, Echols, Effingham, Evans, Glynn, Harlan, Liberty, Long, McIntosh, Wilkes, Wilkerson, Wilkerson, Wilkerson, Wilkerson
- SOWEDA Council on Aging Southwest Georgia Area Agency on Aging**
Baker, Calhoun, Clinch, Clayton, Dougherty, Early, Gadsden, Lee, Wilkes, Wilkerson, Wilkerson, Wilkerson, Wilkerson, Wilkerson
- Three Rivers Area Agency on Aging**
Baldwin, Calhoun, Clinch, Clayton, Dougherty, Early, Gadsden, Lee, Wilkes, Wilkerson, Wilkerson, Wilkerson, Wilkerson, Wilkerson

What is AT?

What is Assistive Technology?

Low Tech

- Pencil grip
- Adapted books
- Slant board
- Highlighters
- Tape
- Magnifiers
- Color coding
- Colored transparencies

Mid Tech

- Word prediction
- Text-to-speech
- Speech-to-text
- Spell checkers
- Adapted mouse
- E-books
- CCTV
- Adapted toys
- Apps < \$100

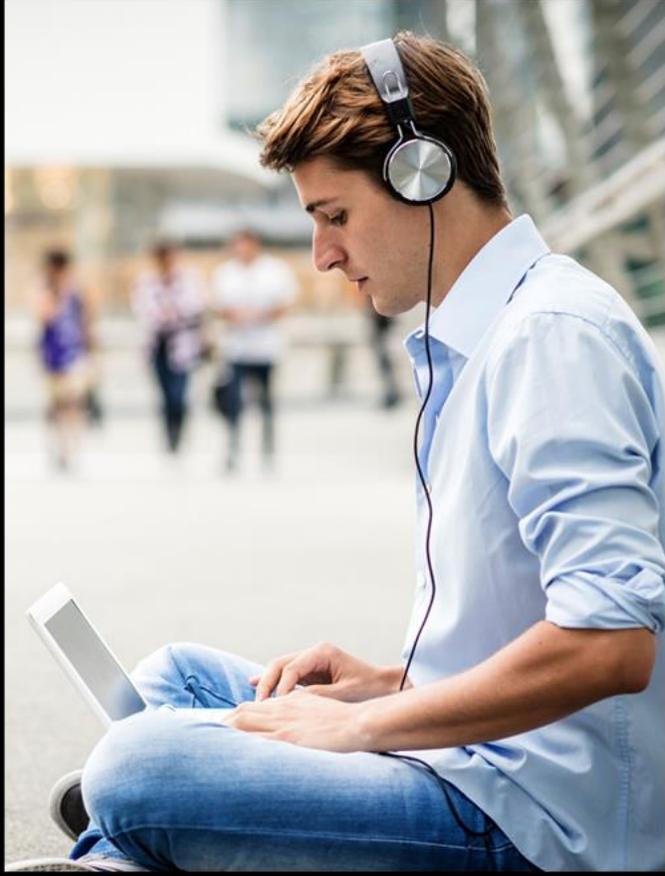
High Tech

- Computer
- Tablets
- Smartphones
- Smart pens
- OCR device
- Magnification software
- Switch access
- Apps > \$100

Please note:
**Your hearing should be evaluated
by an audiologist to ensure that
you are using devices that will not
cause further hearing loss**

Our Philosophy

- Disability is a natural part of the human experience
- Assistive technology helps with gaining access in all areas of life
- There is no shame in having a disability or using assistive technology to increase your independence



Mobile Devices

Smart Phones Smart Solutions

- Flashing Alerts
- Video Calling
- Vibration Patterns
- Mfi Hearing Devices/Hearing Aid Compatiability
- TTY
- Mono Audio
- Call Routing



Apps for Hearing Access

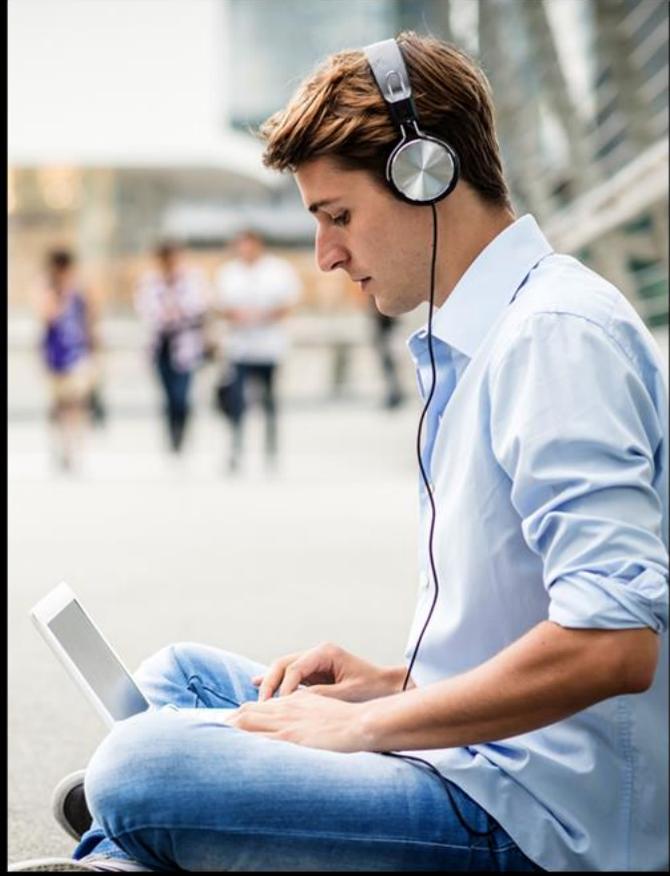
- Petralex
- Flip Writer
- Ava
- NoISee
- Sound meters
- Live Transcribe

TFL App Finder Database



- iOS
- Android
- Windows Mobile
- Blackberry
- Search by operating system, price or category
- Curated by Tools for Life staff and consumers

Tip:
**Invest in quality headphones
for your mobile device**



Entertainment

Access for the Big Screen

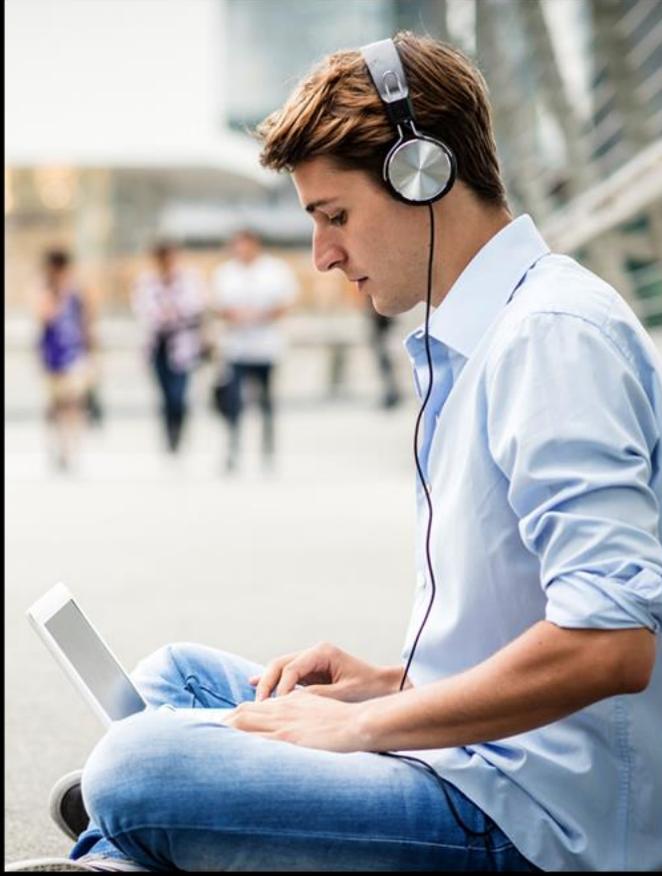
- Caption Options – glasses vs cup holder
- Caption glasses vs open captions
- Enhanced Audio vs Audio Description
- Request at customer service – free of charge
- Regal Cinemas offers ADA companion passes

Access for the Small Screen

- TV Ears (\$19.00) TV Ears Speaker (\$160)
- TV Soundbox (\$140.00)
- Captions and Descriptions
- Accessibility setting on your mobile device

TV Audio Amplification





In the Home

Accessibility Options for the Home

- Smart home technology is becoming more and more common
- Many ways to interact
 - Amazon Echo
 - Google Home
- Options are becoming more affordable and varied

Apple HomeKit

- One option
- Best for dual sensory disabilities
- Some items still require a hub
- Push notifications

Apple HomeKit



Professional Development



Tools for Life offers online professional development to help you learn more about assistive technology strategies and solutions, as well as the most recent information on AT devices and disability related issues and trends.

Webinar content and materials are developed and presented by one of the Tools for Life team members along with other regional and national leaders in the assistive technology community.

To join the TFL mailing list to receive our email announcements, visit www.gatfl.gatech.edu.

August Smart Lock

- Fits many deadbolts
- Keyed or keyless
- Check remotely
- Alerts for door unlocking



One Link by First Alert

- Smoke and Carbon Monoxide
- Connected
- Get push notifications
- Visual and auditory cue

Philips Hue Lights

- Color and white options
- Set scenes
- Accent lighting
- Control with your assistance, voice or app
- Requires a bridge and wifi



Fibaro Flood Sensor

- Detects changes in moisture and temp
- Notifications and audible alarm
- Can connect to smart lights for visual alerts
- Optional home assistant



Ecobee Thermostat

- Control temperature with your voice
- Room monitors
- Discount through GA Power
- Large display

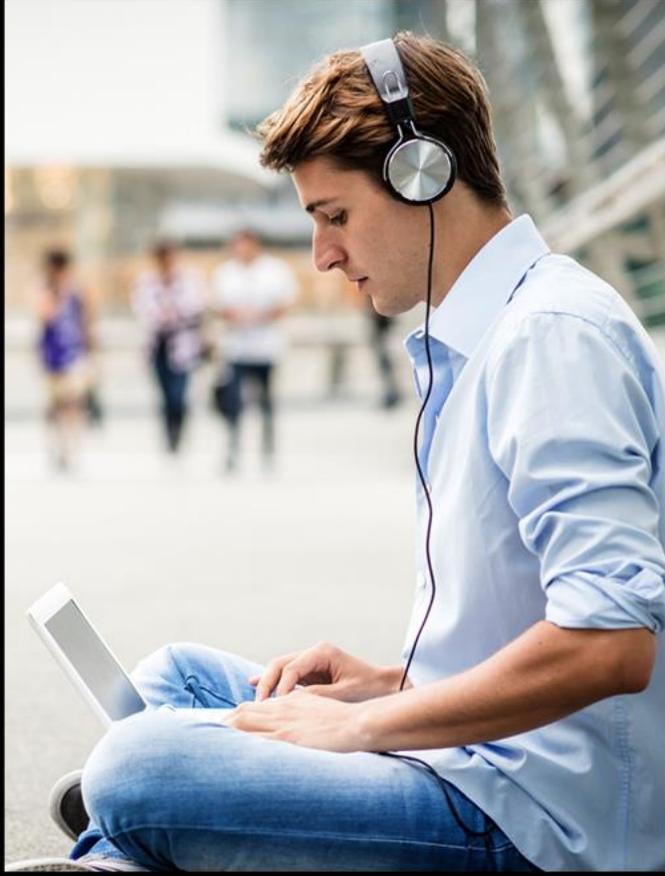


Visual and Tactile Alarms

- Sensors can be placed for door bells and phones
- Physical feedback works better for some
- Many non-auditory alert options
- Increases safety and independence
- Wireless options

Vibrating Alarms

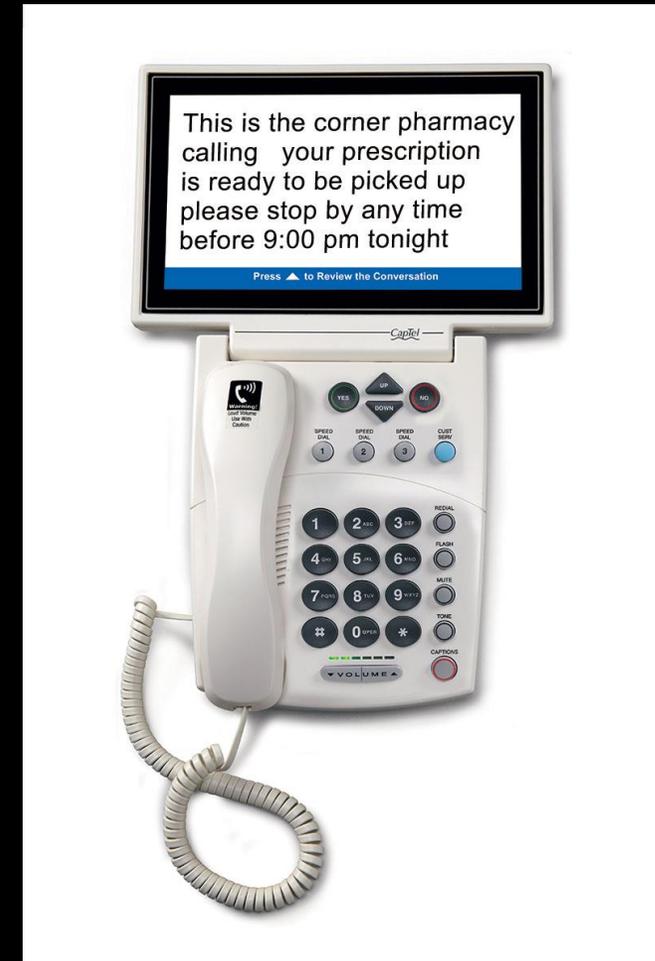




Communication

Captioned Calls

- Variety of styles of Captioned Phones
- Uses a confidential interpreter to provide captions
- Can be obtained from GA TEDP



Audio Amplification

- Up to 40db
- Attaches to any corded home phone
- Affordable



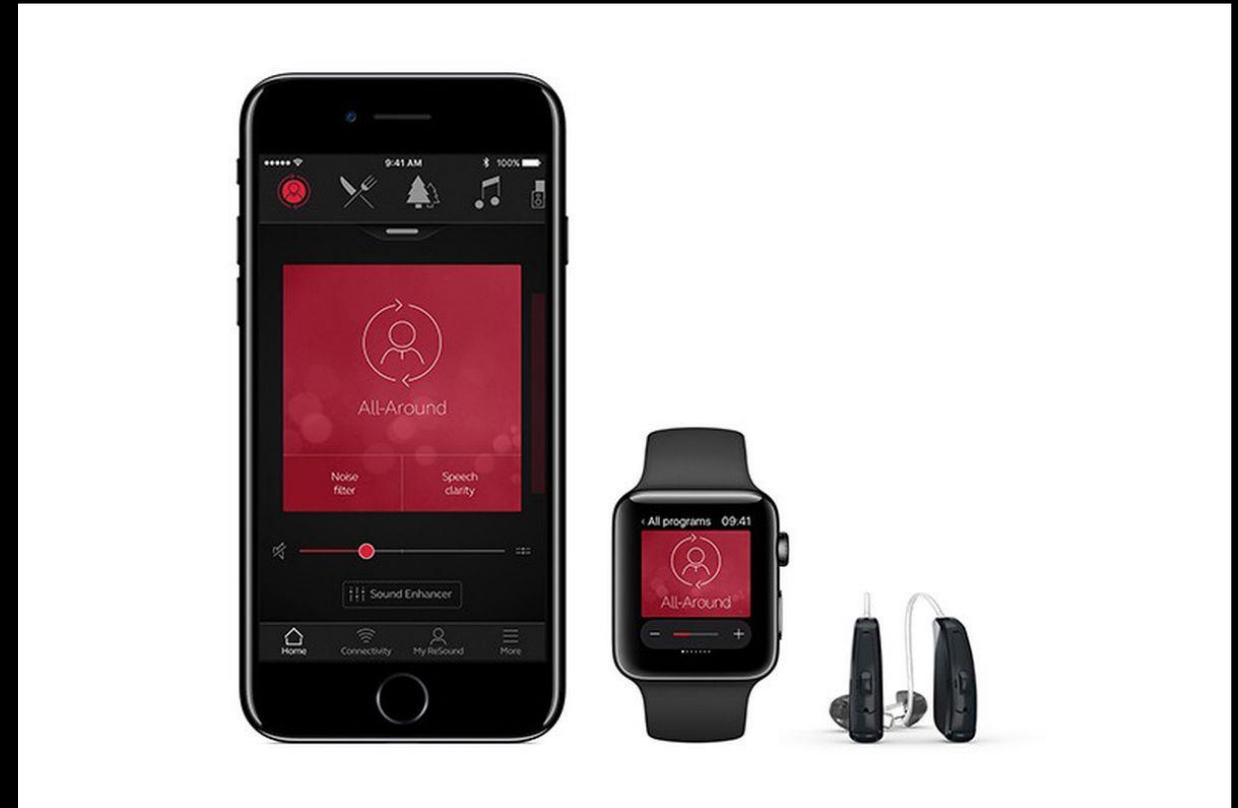
Video Phone

- Variety of styles from home phones to mobile
- Sorenson, Purple
- Video relay service
- Cannot be used as a workaround for an interpreter
- Price point varies
- GA TEDP can cover these



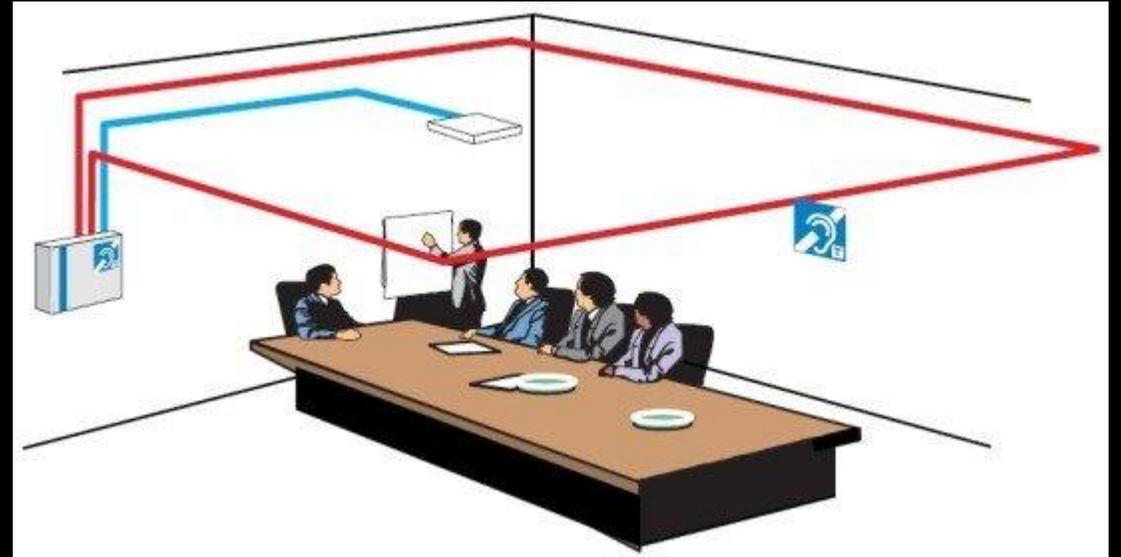
Hearing Aids

- Low profile
- Many can interact with mobile devices
- T-coil option
- Price points vary
- Not covered by insurance
- Requires professional consult



Other Options for Hearing Access

- IR Systems
 - Requires a receiver and clear line of sight to transmitter
- Induction Loop
 - Uses t-coil setting to tap into sound system, can be set up at home



The Tools for Life Team



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Disclaimer: Produced by Tools for Life (TFL), which is a result of the Assistive Technology Act of 1998, as amended in 2004. TFL is a program of the Georgia Institute of Technology, College of Design, Center for Inclusive Design and Innovation (formerly AMAC Accessibility) and was made possible by Grant Number H224C030009 from the Administration for Community Living. Its contents are solely the responsibility of the authors and do not necessarily represent the official views of HHS.